



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 03:07 AM UTC

PDB ID : 3J34 / pdb_00003j34
EMDB ID : EMD-5582
Title : Structure of HIV-1 Capsid Protein by Cryo-EM
Authors : Zhao, G.; Perilla, J.R.; Yufenyuy, E.; Meng, X.; Chen, B.; Ning, J.; Ahn, J.; Gronenborn, A.M.; Schulten, K.; Aiken, C.; Zhang, P.
Deposited on : 2013-02-23
Resolution : 8.60 Å(reported)
Based on initial models : 3H47, 2KOD

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

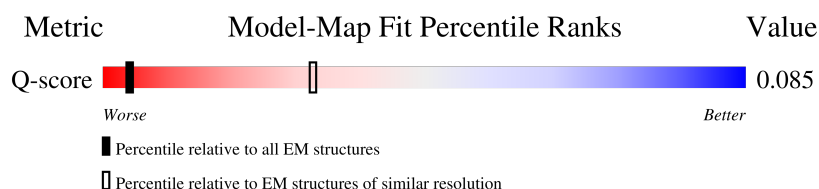
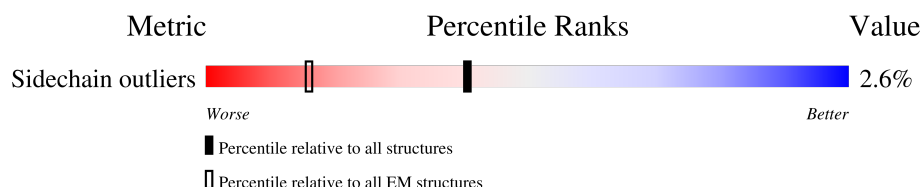
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 8.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Sidechain outliers	223484	23102	-
Q-score	-	25397	292 (8.10 - 9.10)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	5	231	
1	6	231	
1	7	231	
1	A	231	
1	B	231	
1	C	231	

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Mol	Chain	Length	Quality of chain
1	D	231	
1	E	231	
1	F	231	
1	G	231	
1	H	231	
1	I	231	
1	J	231	
1	K	231	
1	L	231	
1	M	231	
1	N	231	
1	O	231	
1	P	231	
1	Q	231	
1	R	231	
1	S	231	
1	T	231	
1	U	231	
1	V	231	
1	W	231	
1	X	231	
1	Y	231	
1	Z	231	
1	a	231	
1	b	231	

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Mol	Chain	Length	Quality of chain
1	c	231	
1	d	231	
1	e	231	
1	f	231	
1	g	231	
1	h	231	
1	i	231	
1	j	231	
1	k	231	
1	l	231	
1	m	231	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 75600 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called capsid protein.

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

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	92	GLU	ALA	engineered mutation	UNP Q79791
B	92	GLU	ALA	engineered mutation	UNP Q79791
C	92	GLU	ALA	engineered mutation	UNP Q79791
D	92	GLU	ALA	engineered mutation	UNP Q79791
E	92	GLU	ALA	engineered mutation	UNP Q79791
F	92	GLU	ALA	engineered mutation	UNP Q79791
G	92	GLU	ALA	engineered mutation	UNP Q79791
H	92	GLU	ALA	engineered mutation	UNP Q79791
I	92	GLU	ALA	engineered mutation	UNP Q79791
J	92	GLU	ALA	engineered mutation	UNP Q79791
K	92	GLU	ALA	engineered mutation	UNP Q79791
L	92	GLU	ALA	engineered mutation	UNP Q79791
M	92	GLU	ALA	engineered mutation	UNP Q79791
N	92	GLU	ALA	engineered mutation	UNP Q79791
O	92	GLU	ALA	engineered mutation	UNP Q79791
P	92	GLU	ALA	engineered mutation	UNP Q79791
Q	92	GLU	ALA	engineered mutation	UNP Q79791
R	92	GLU	ALA	engineered mutation	UNP Q79791
S	92	GLU	ALA	engineered mutation	UNP Q79791
T	92	GLU	ALA	engineered mutation	UNP Q79791
U	92	GLU	ALA	engineered mutation	UNP Q79791
V	92	GLU	ALA	engineered mutation	UNP Q79791
W	92	GLU	ALA	engineered mutation	UNP Q79791
X	92	GLU	ALA	engineered mutation	UNP Q79791
Y	92	GLU	ALA	engineered mutation	UNP Q79791
Z	92	GLU	ALA	engineered mutation	UNP Q79791
5	92	GLU	ALA	engineered mutation	UNP Q79791
a	92	GLU	ALA	engineered mutation	UNP Q79791
b	92	GLU	ALA	engineered mutation	UNP Q79791
c	92	GLU	ALA	engineered mutation	UNP Q79791
6	92	GLU	ALA	engineered mutation	UNP Q79791

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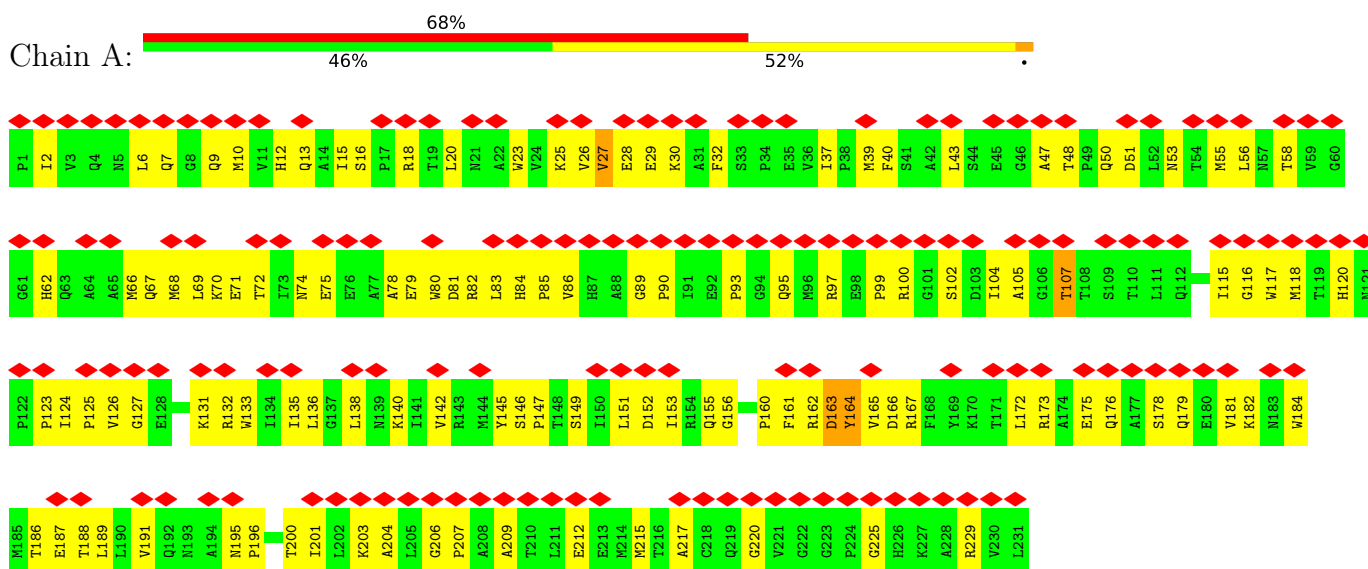
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Chain	Residue	Modelled	Actual	Comment	Reference
i	92	GLU	ALA	engineered mutation	UNP Q79791
j	92	GLU	ALA	engineered mutation	UNP Q79791
k	92	GLU	ALA	engineered mutation	UNP Q79791
l	92	GLU	ALA	engineered mutation	UNP Q79791
m	92	GLU	ALA	engineered mutation	UNP Q79791
7	92	GLU	ALA	engineered mutation	UNP Q79791
d	92	GLU	ALA	engineered mutation	UNP Q79791
e	92	GLU	ALA	engineered mutation	UNP Q79791
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g	92	GLU	ALA	engineered mutation	UNP Q79791
h	92	GLU	ALA	engineered mutation	UNP Q79791

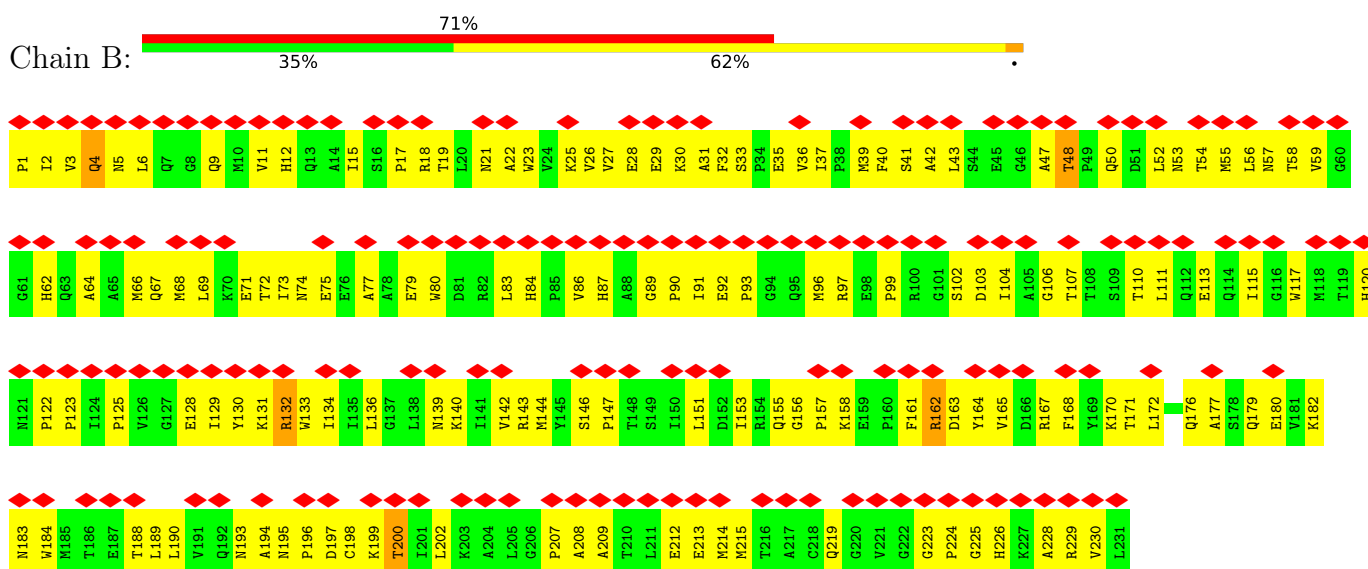
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

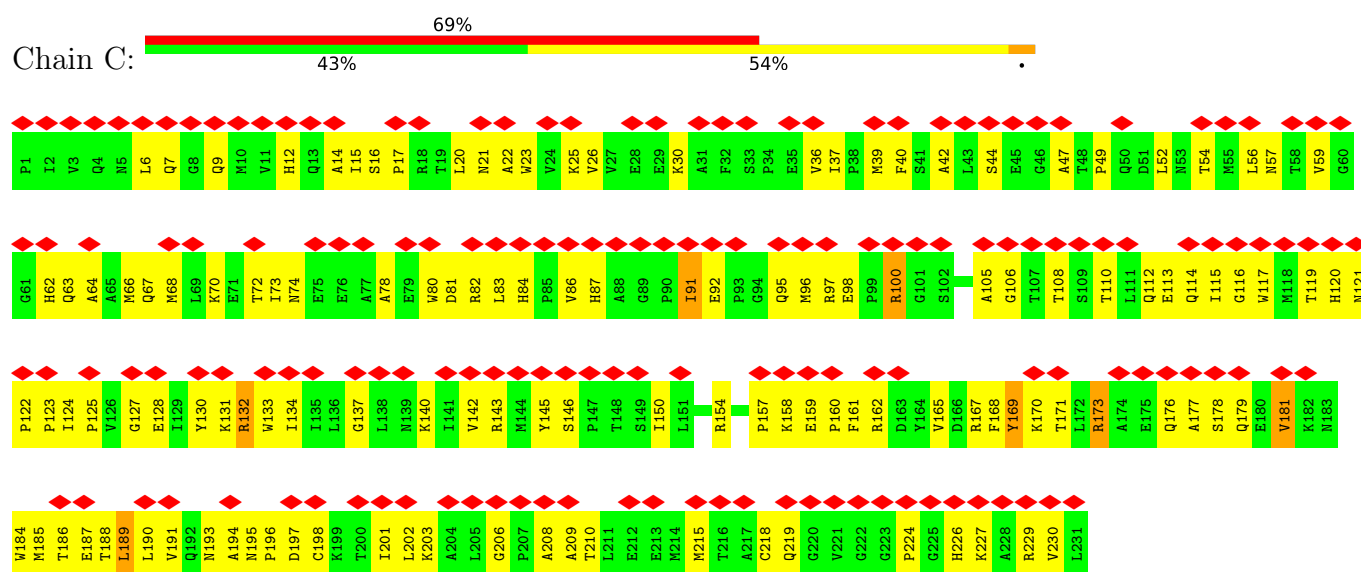
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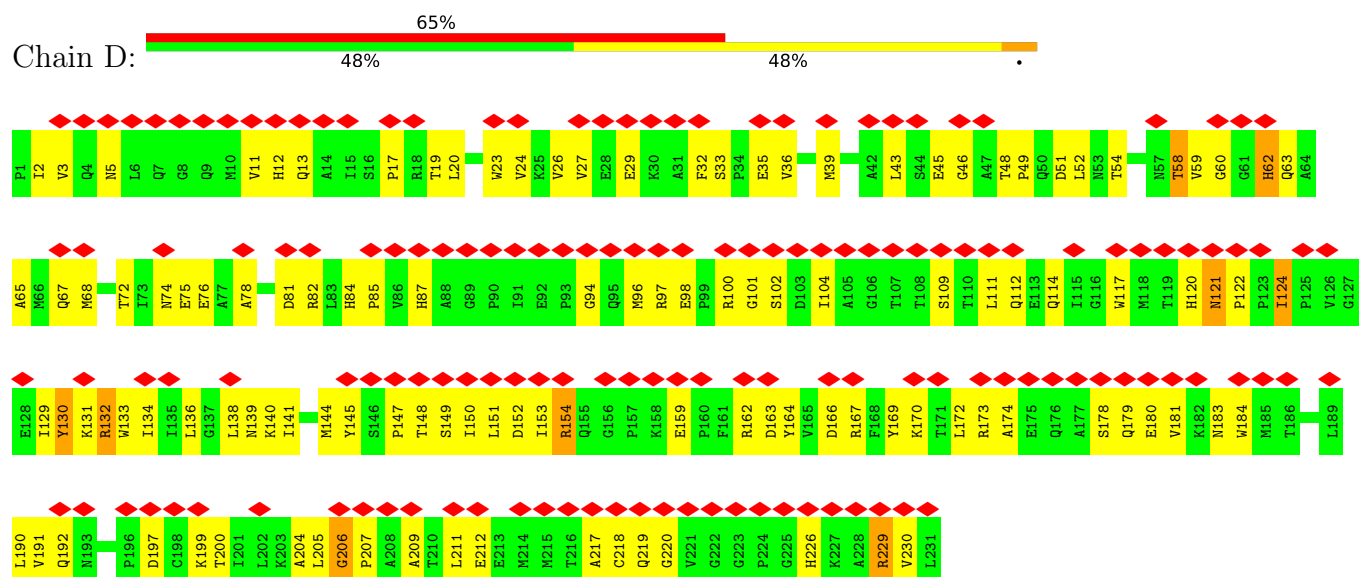
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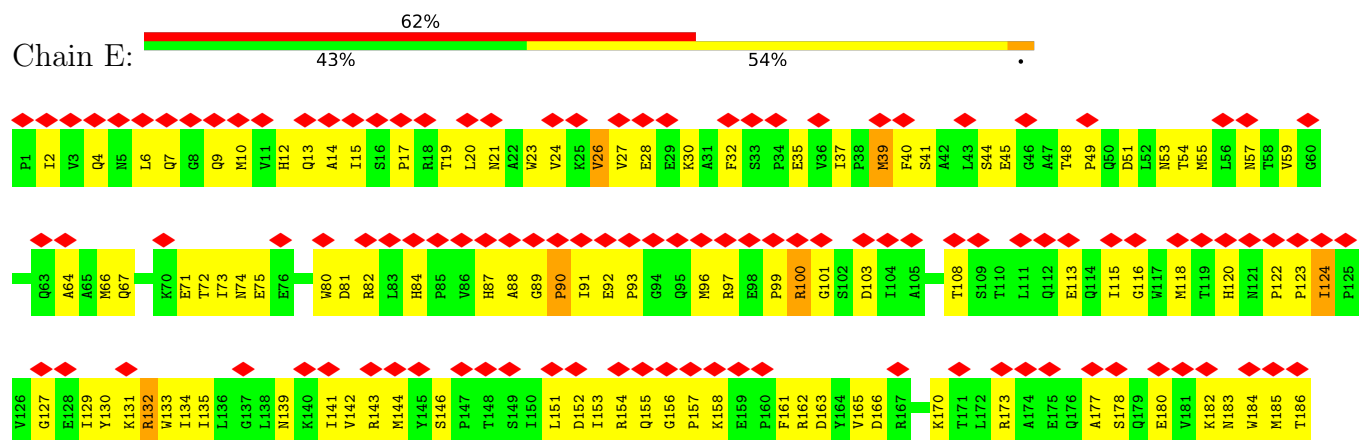
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• Molecule 1: capsid protein

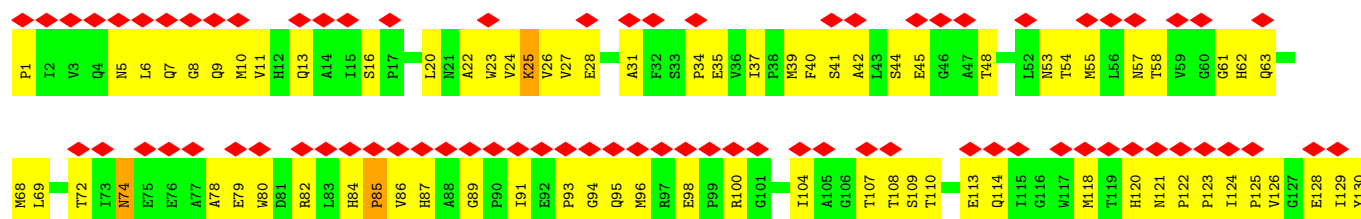


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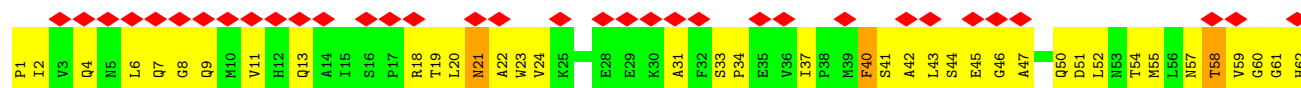




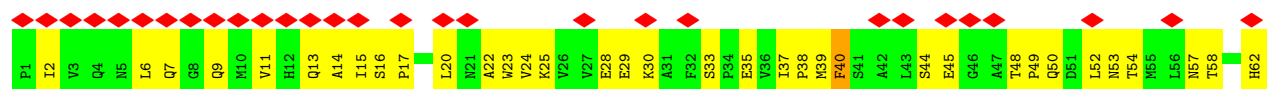
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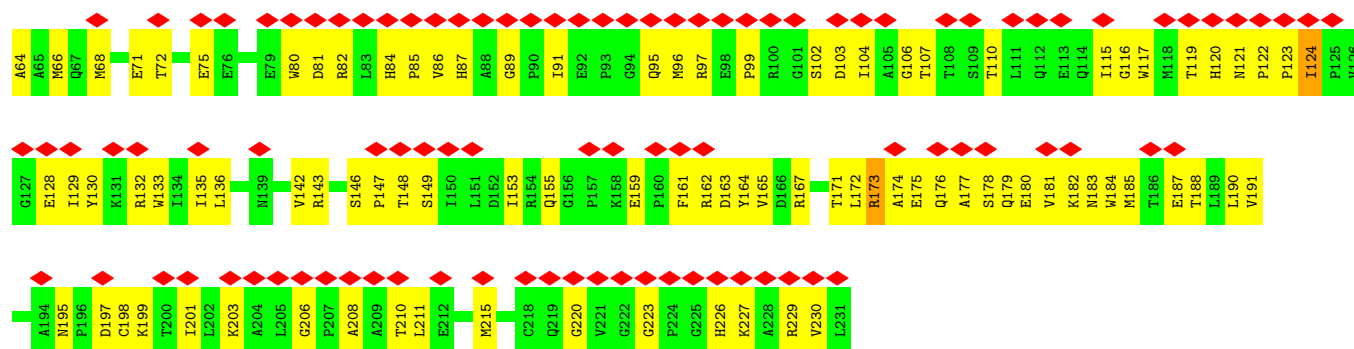


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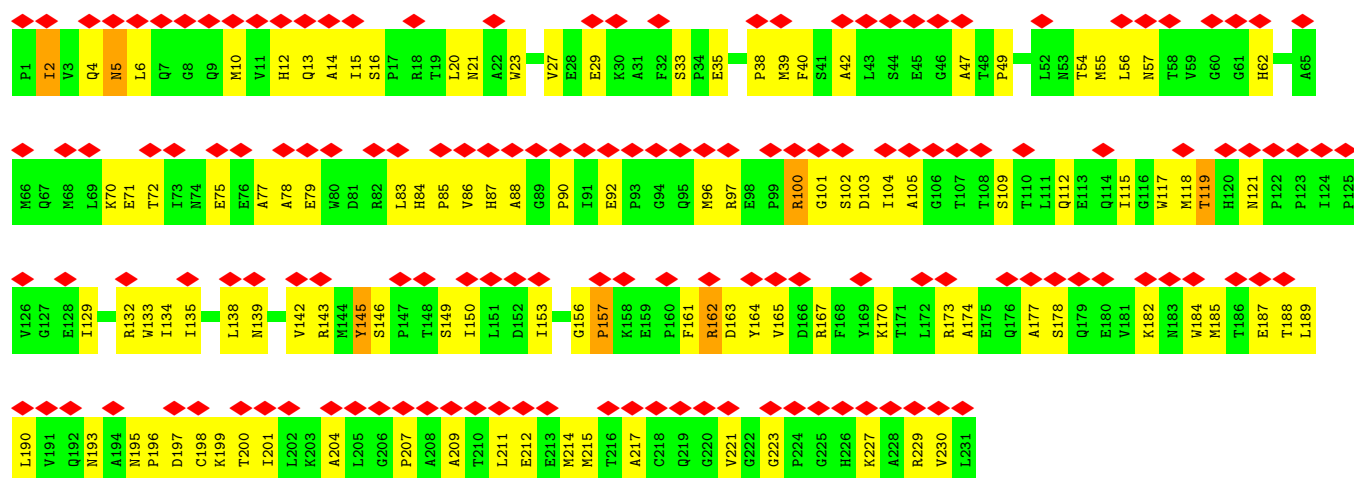


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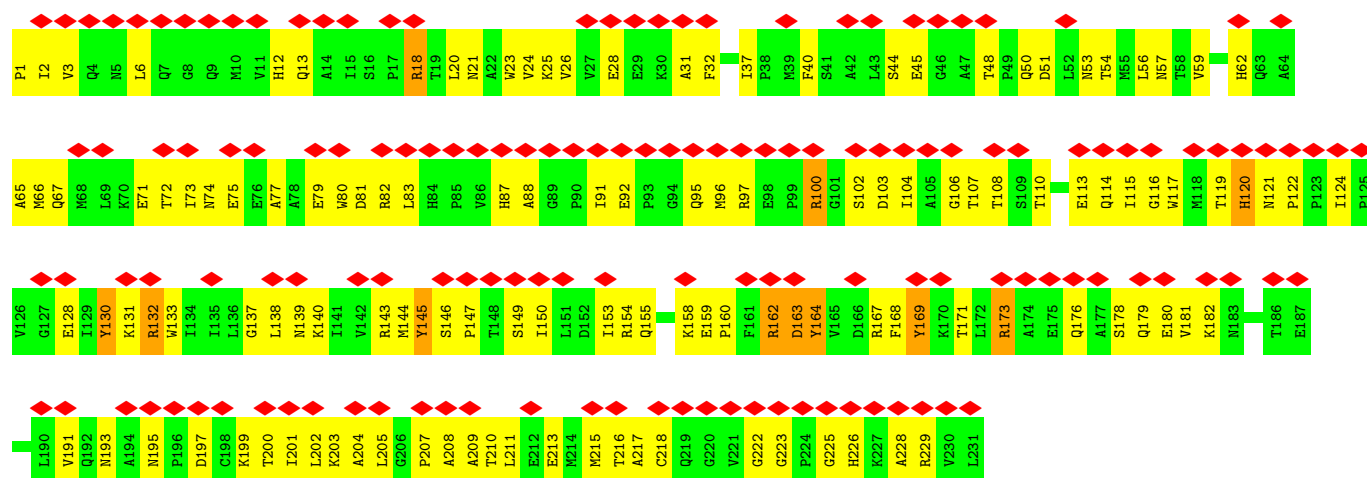




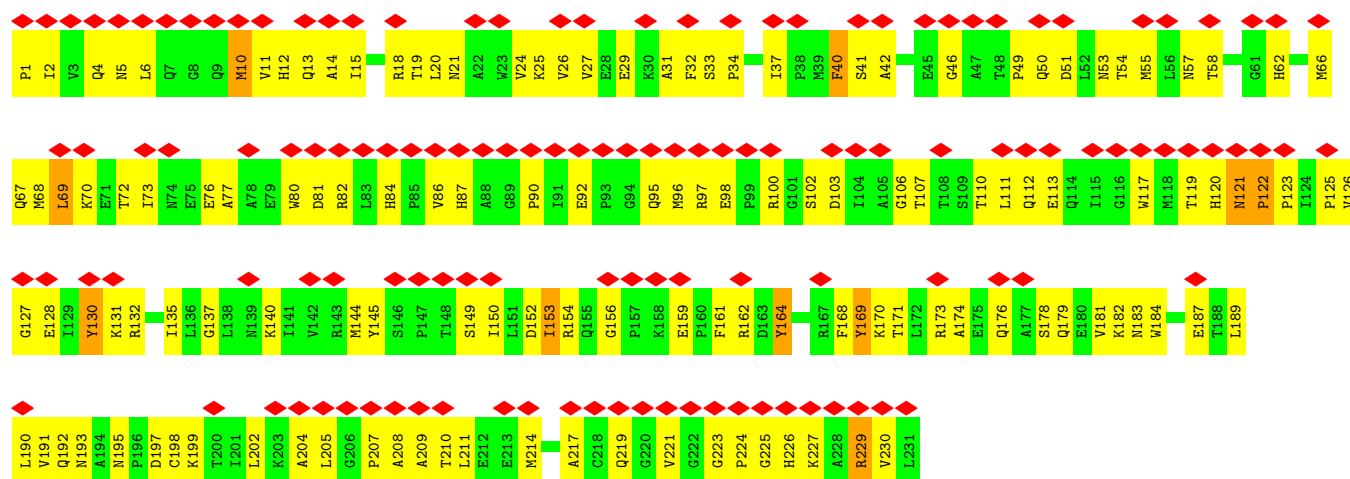
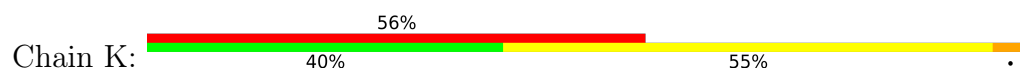
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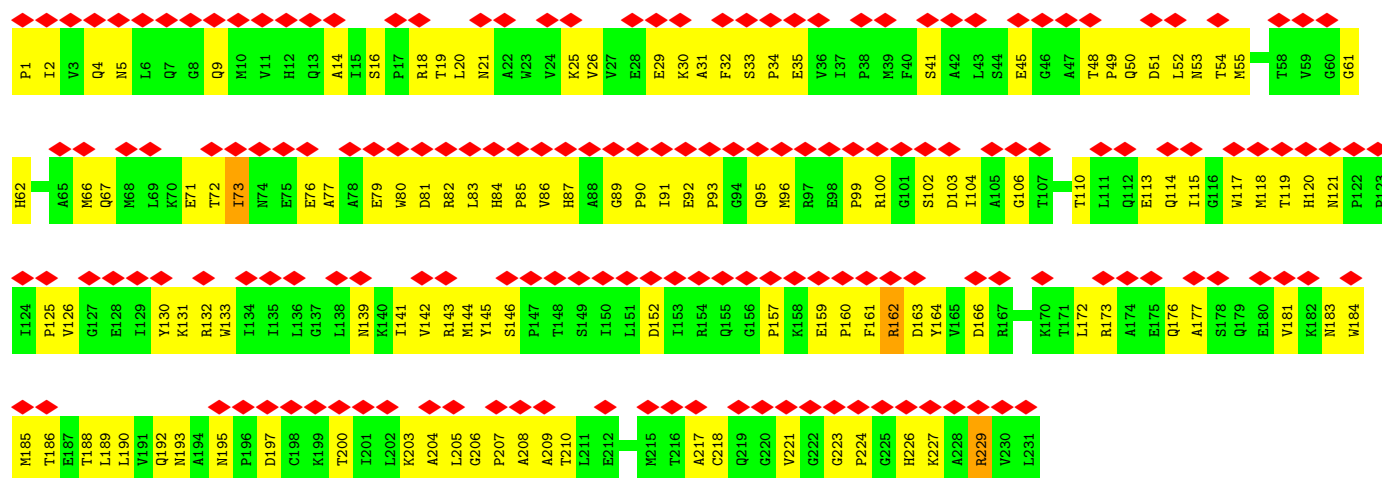
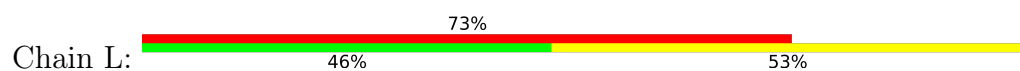
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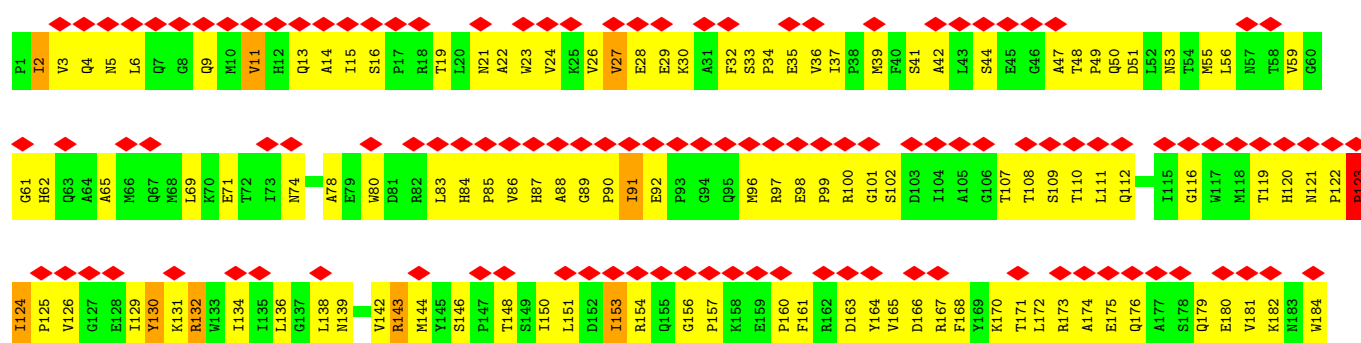
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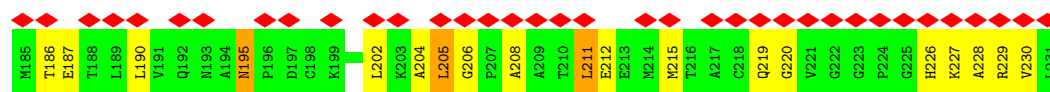


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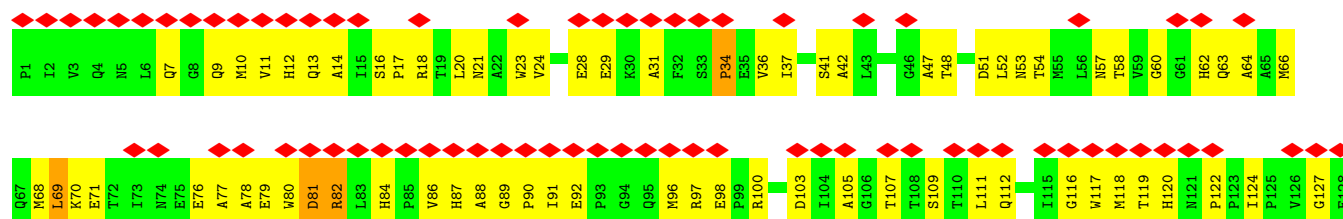


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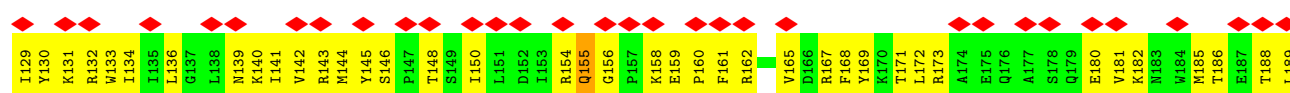
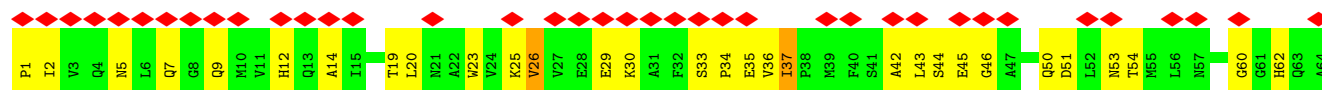




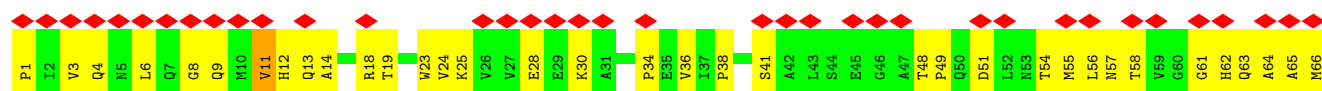
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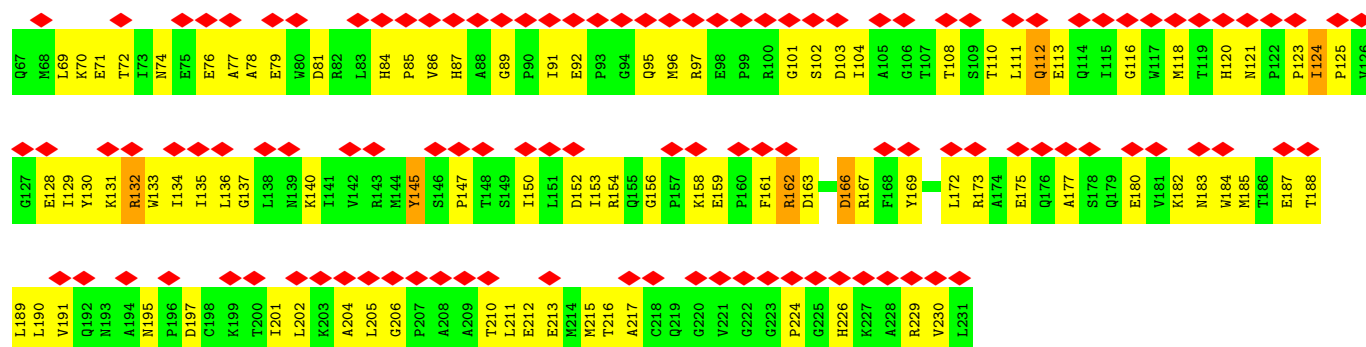


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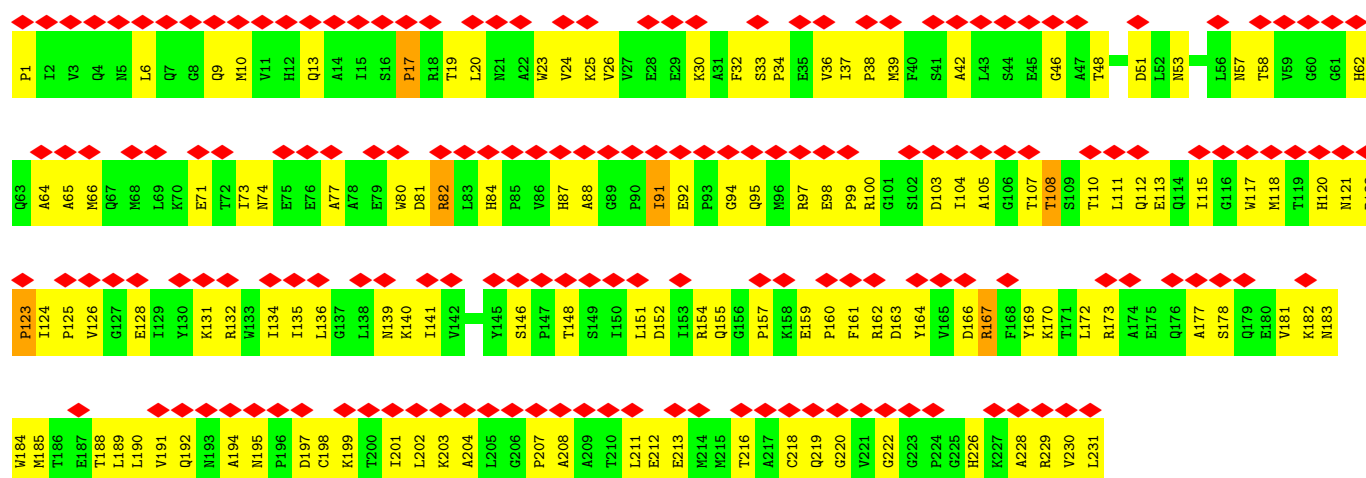
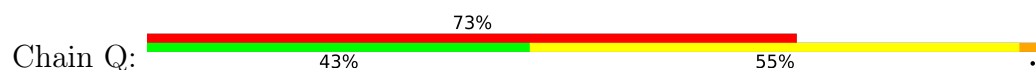


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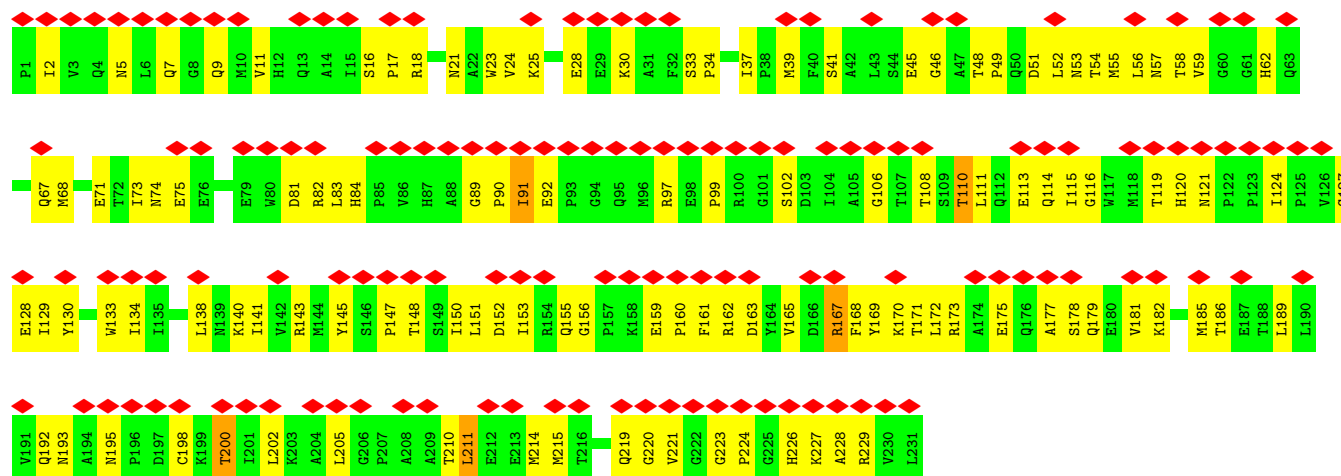




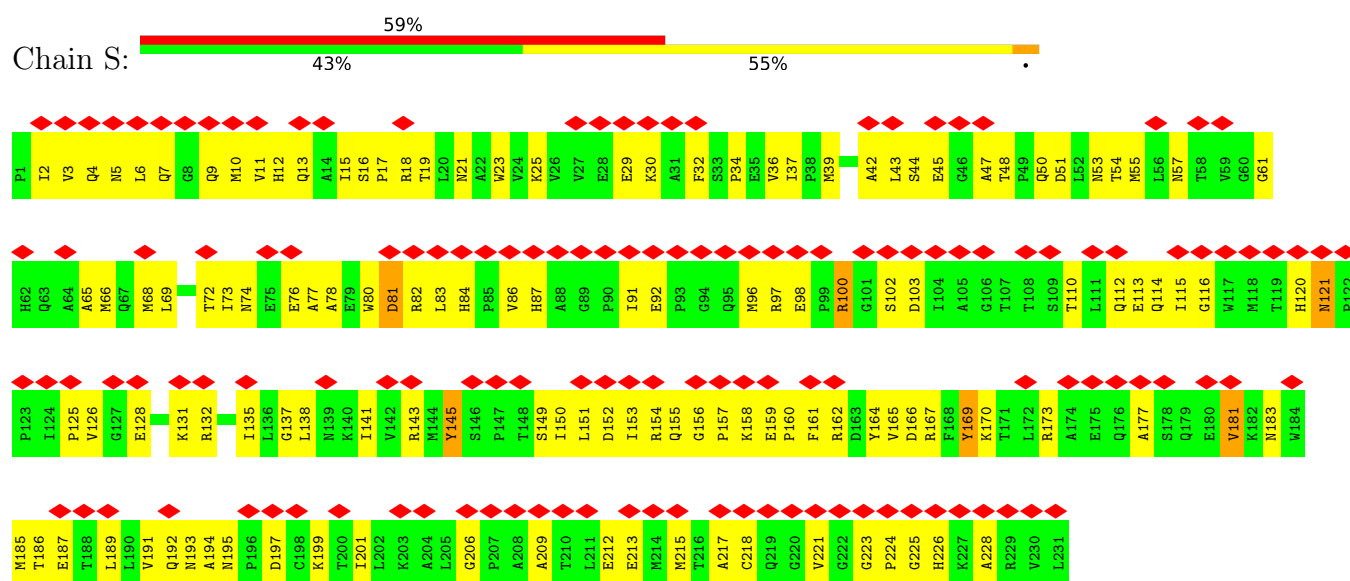
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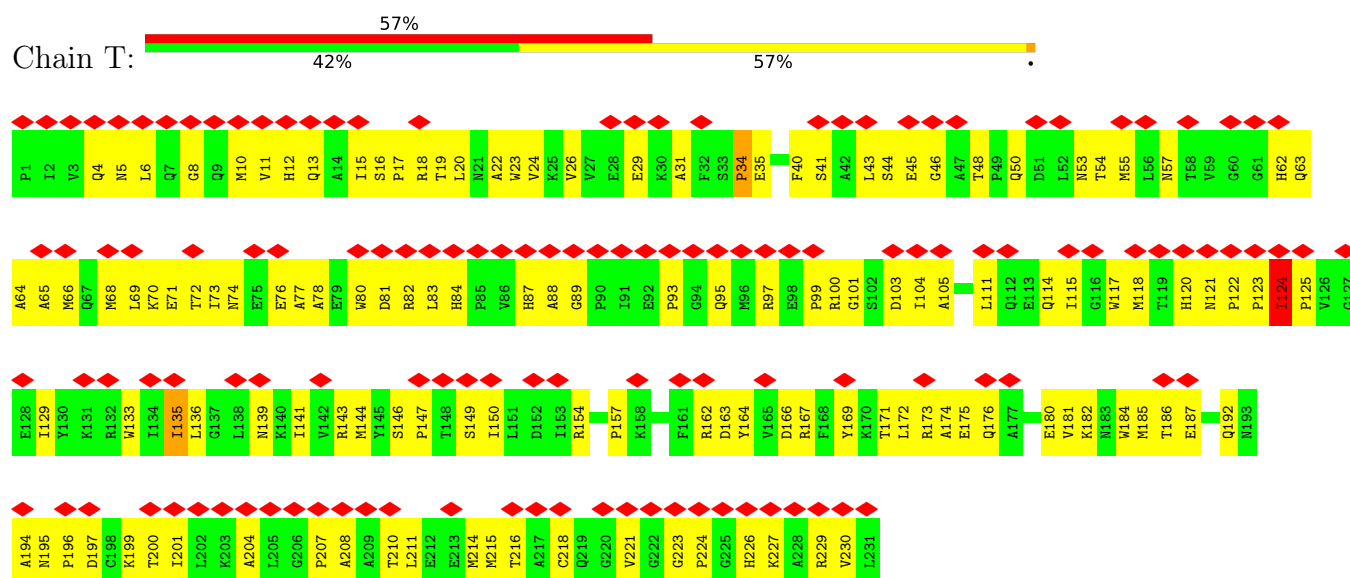
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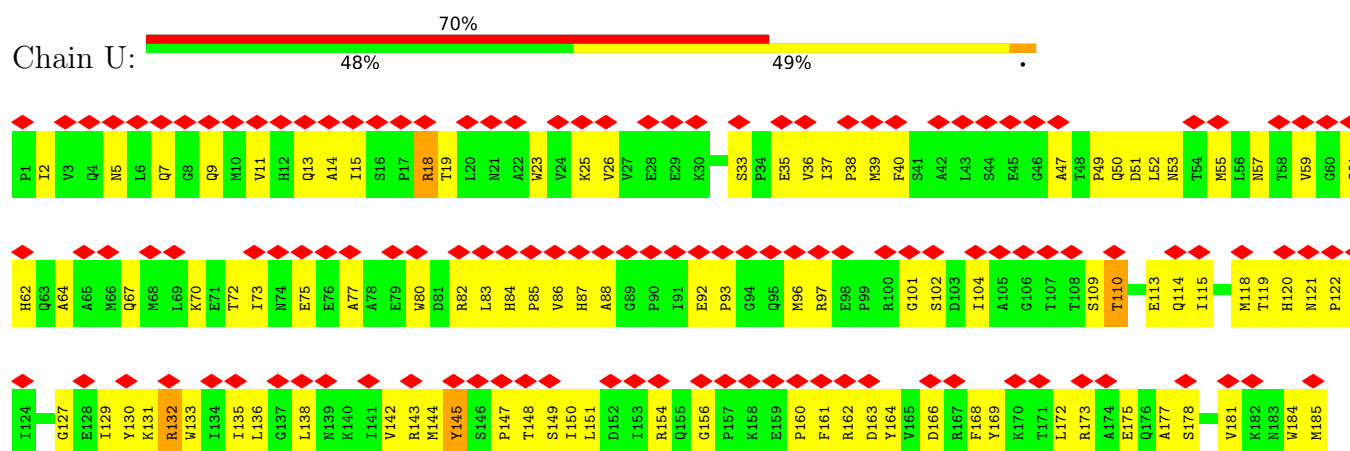
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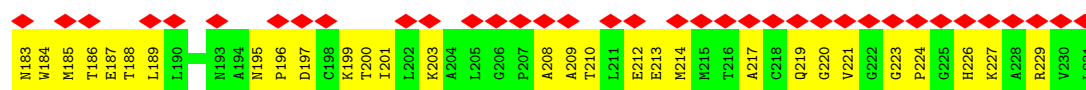
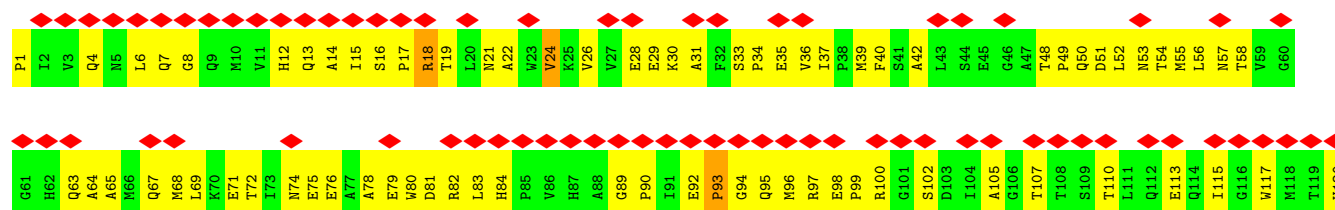


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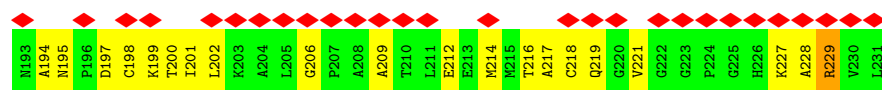
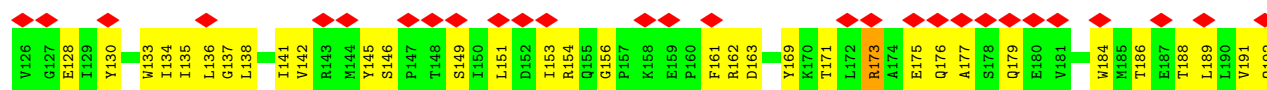
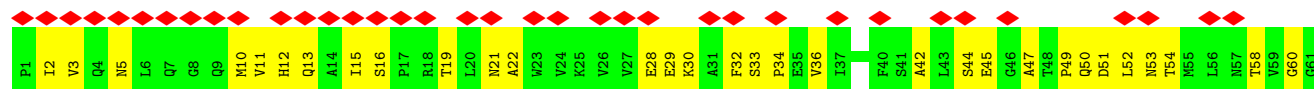




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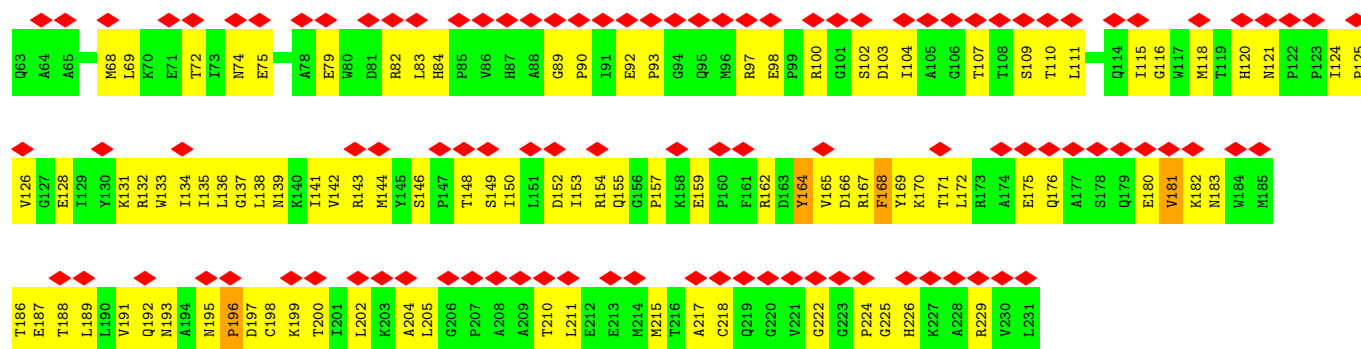


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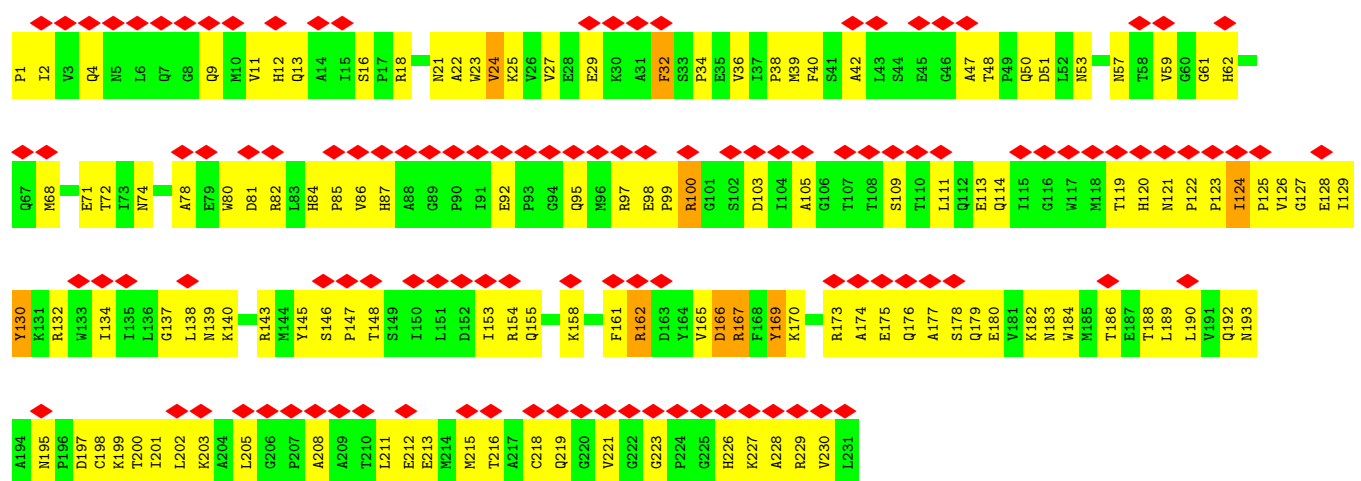


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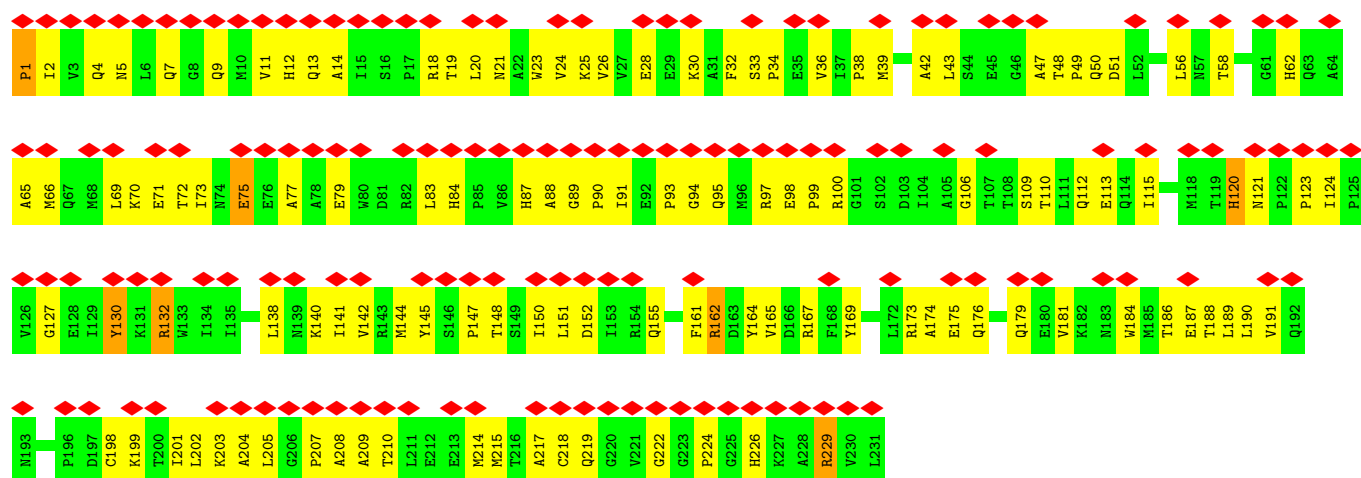




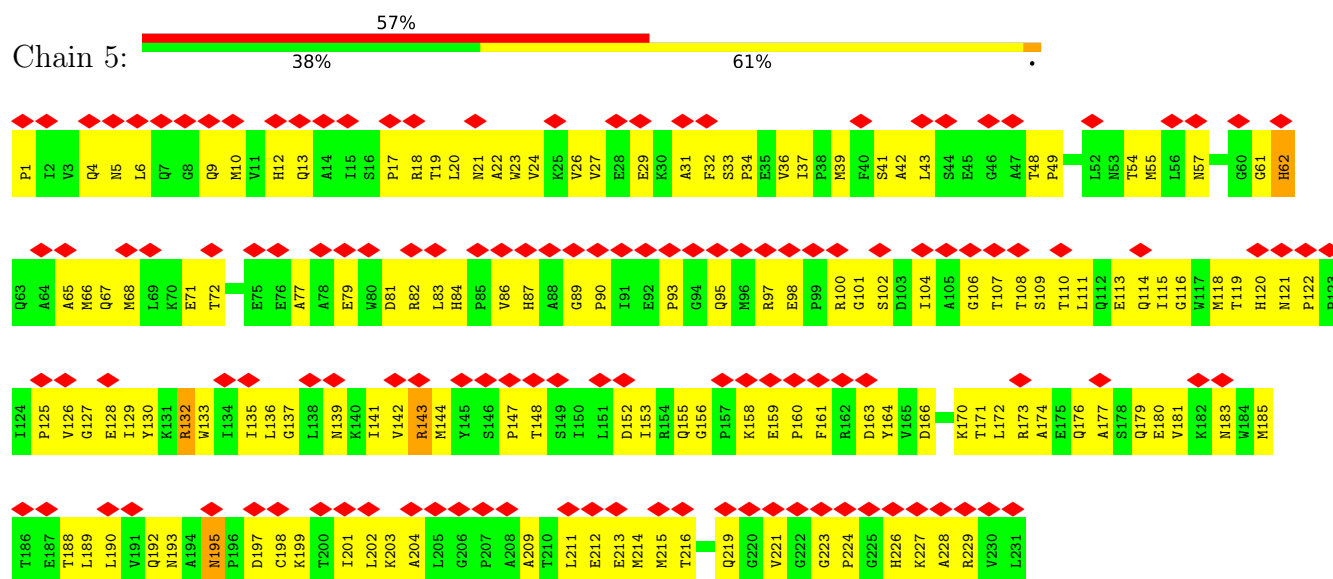
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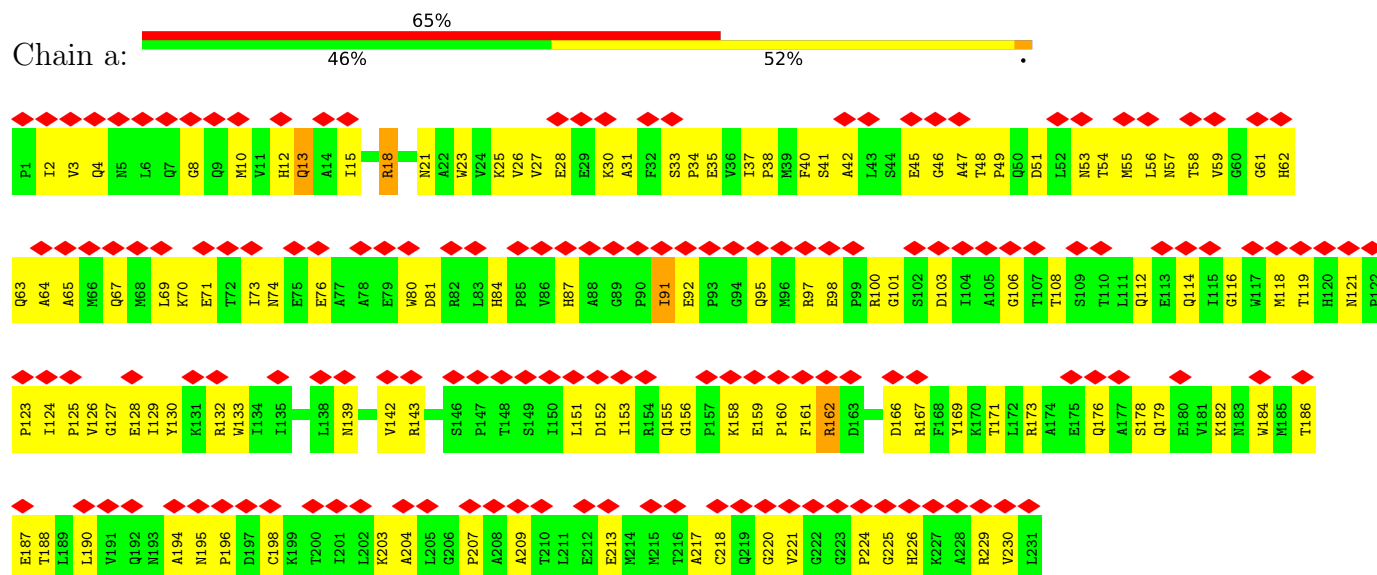
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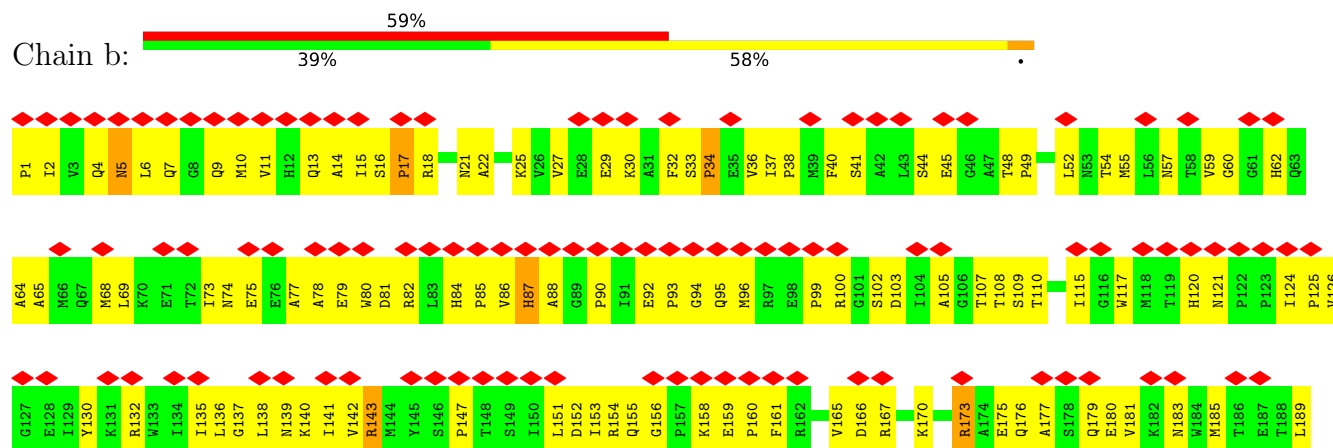
• Molecule 1: capsid protein



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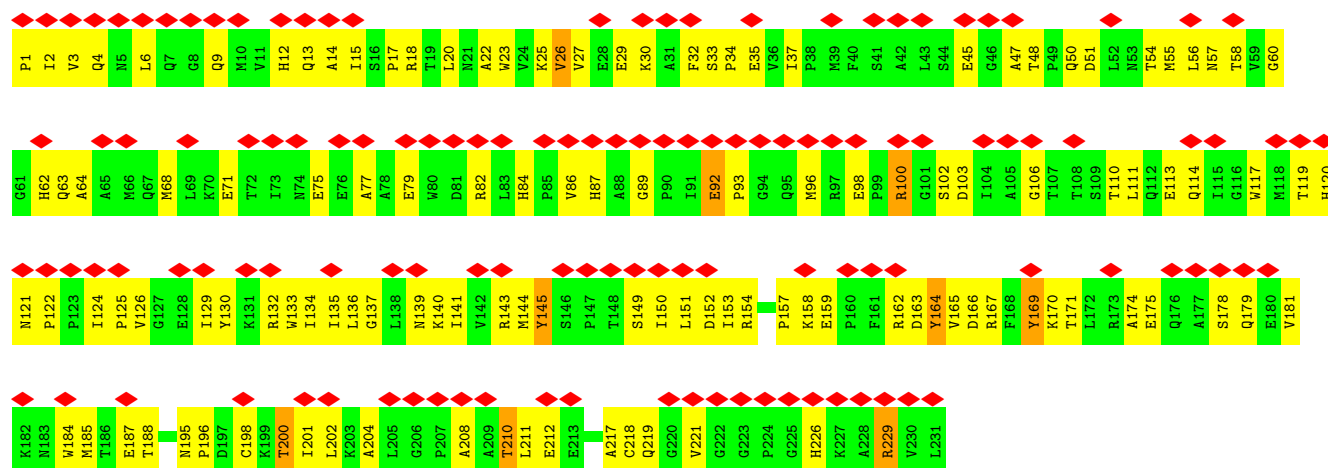
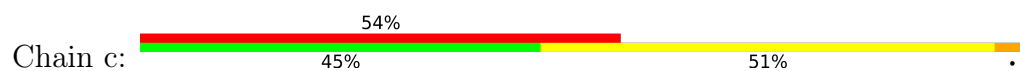


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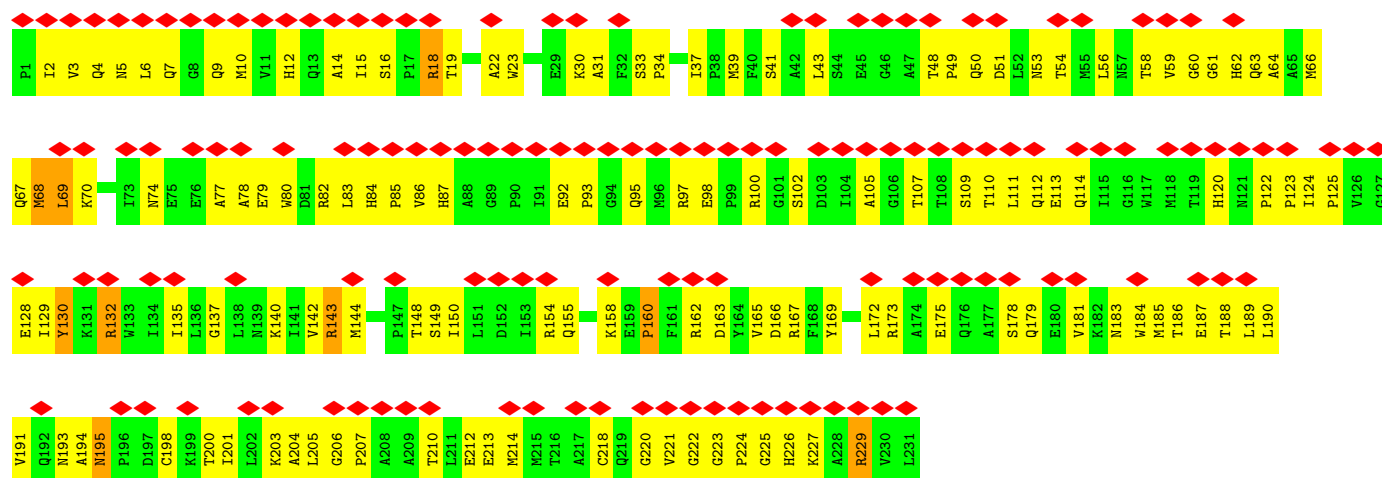




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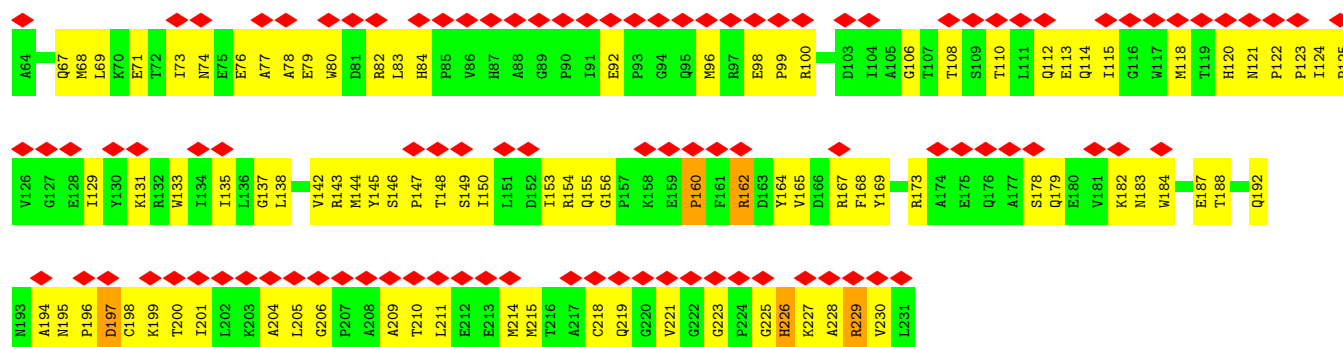


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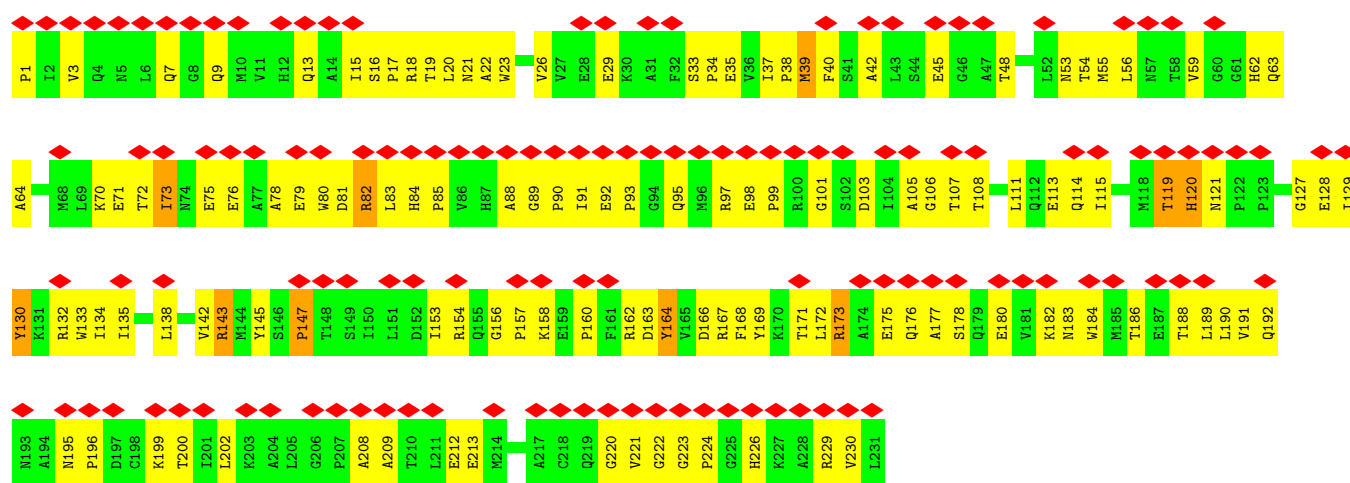


• Molecule 1: capsid protein

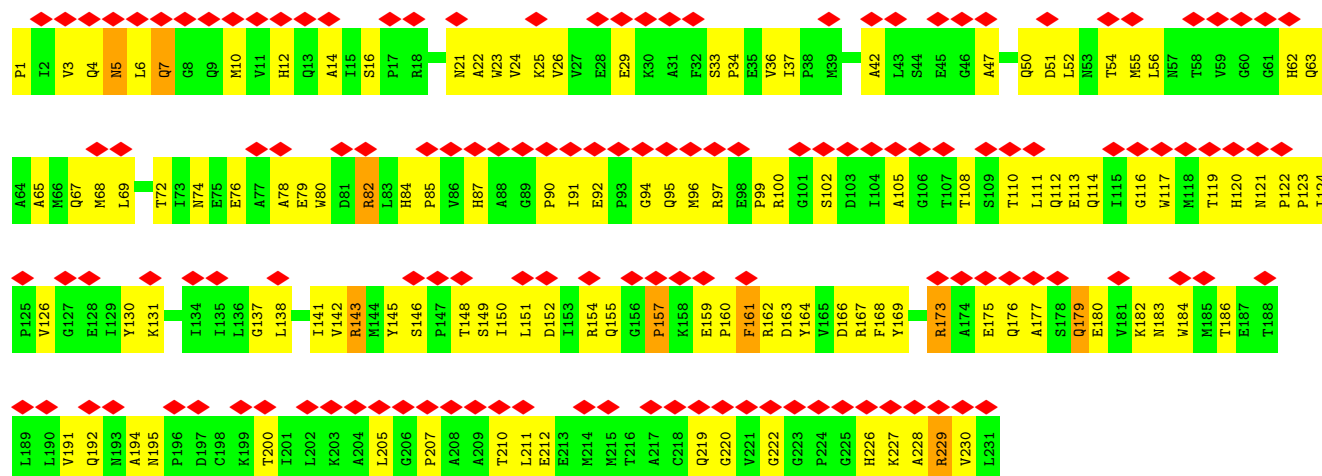




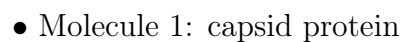
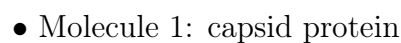
• Molecule 1: capsid protein



• Molecule 1: capsid protein

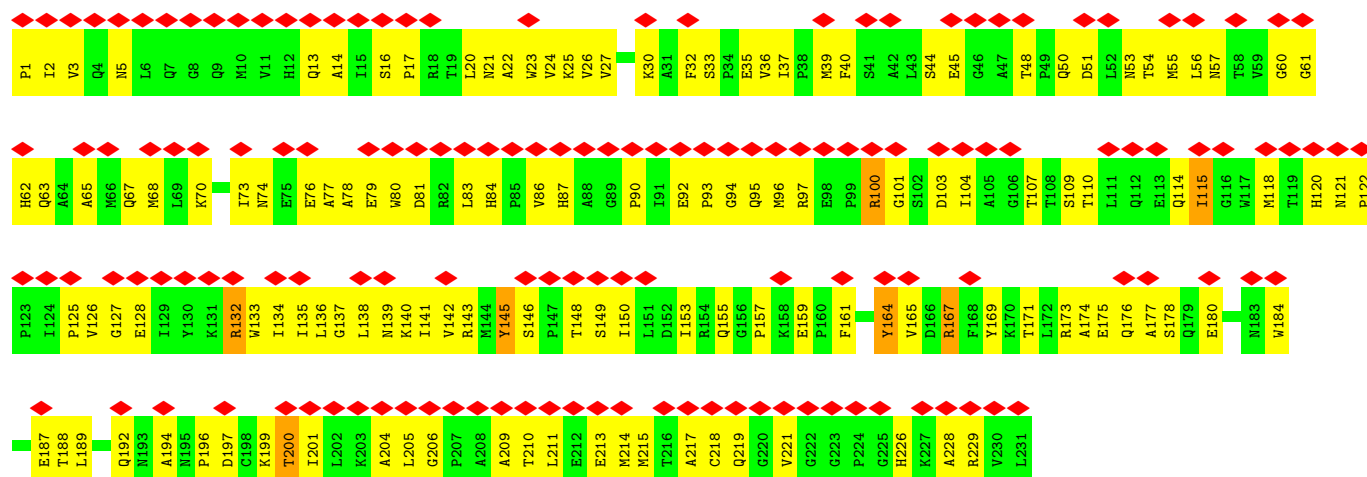


• Molecule 1: capsid protein

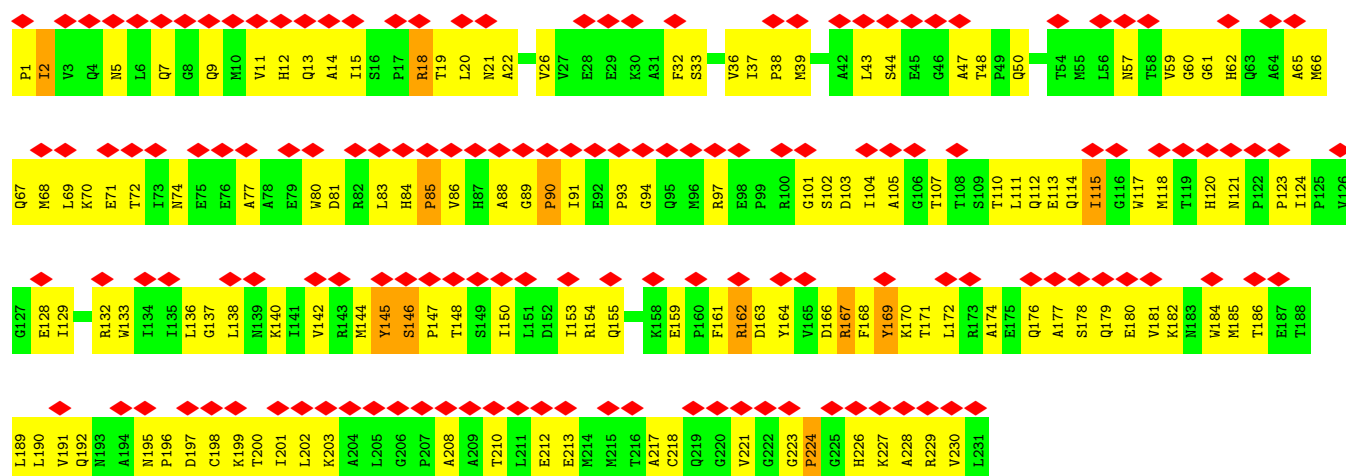




• Molecule 1: capsid protein

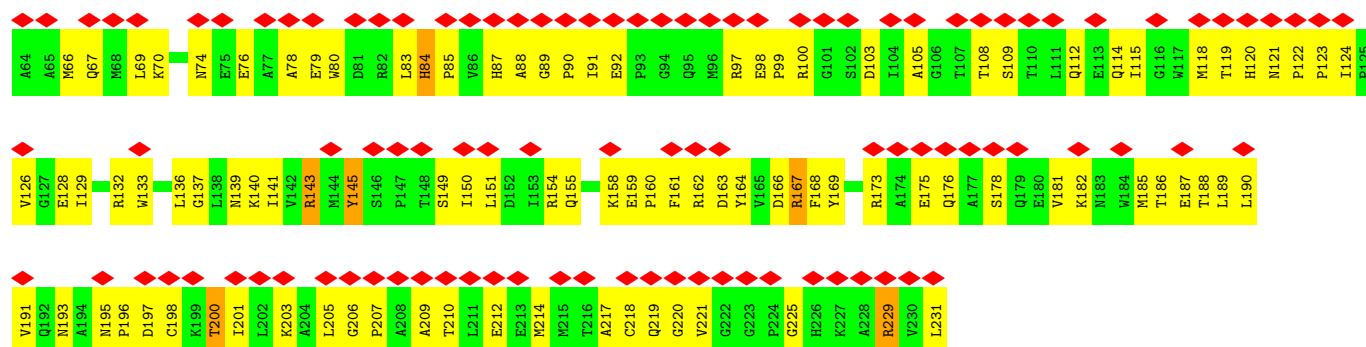


• Molecule 1: capsid protein

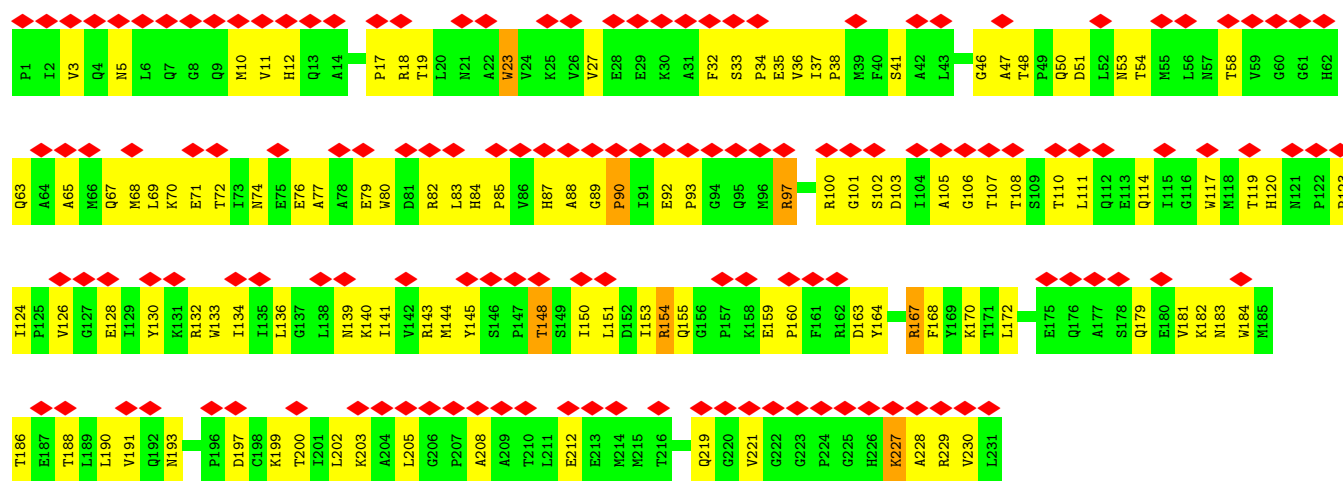


• Molecule 1: capsid protein

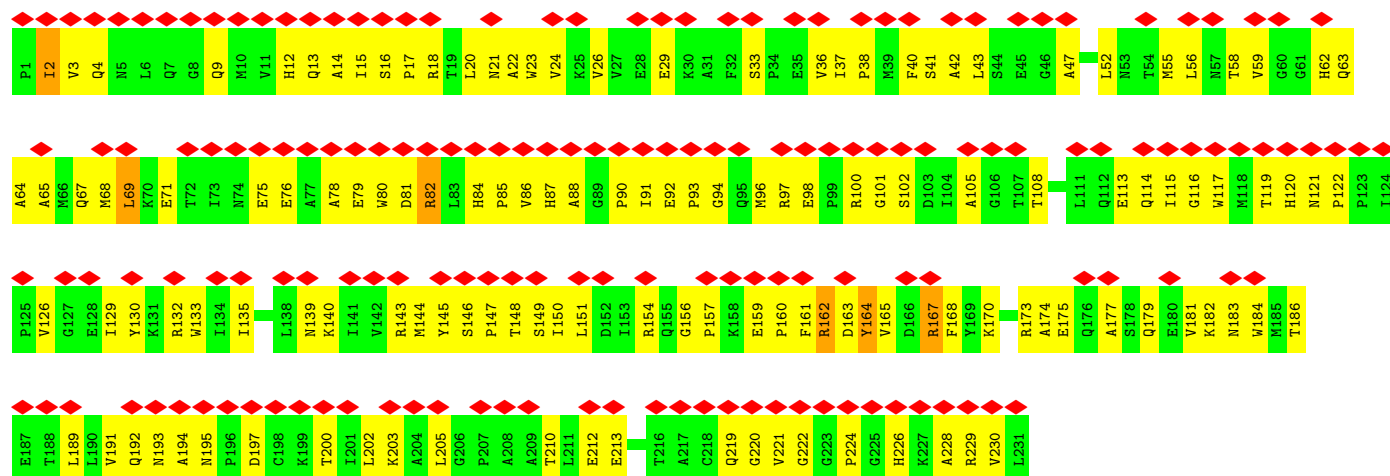




• Molecule 1: capsid protein



• Molecule 1: capsid protein



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=31.13°, rise=7.247 Å, axial sym=C1	Depositor
Number of segments used	3210	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	each filament	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{Å}^2$)	15	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	58257	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	62.554	Depositor
Minimum map value	-25.537	Depositor
Average map value	-1.725	Depositor
Map value standard deviation	7.587	Depositor
Recommended contour level	29	Depositor
Map size (Å)	723.76, 723.76, 723.76	wwPDB
Map dimensions	664, 664, 664	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.09, 1.09, 1.09	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	5	2.33	70/1841 (3.8%)	2.61	159/2500 (6.4%)
1	6	2.25	73/1841 (4.0%)	2.67	171/2500 (6.8%)
1	7	2.13	52/1841 (2.8%)	2.61	156/2500 (6.2%)
1	A	2.24	51/1841 (2.8%)	2.57	148/2500 (5.9%)
1	B	2.26	76/1841 (4.1%)	2.67	179/2500 (7.2%)
1	C	2.24	67/1841 (3.6%)	2.59	143/2500 (5.7%)
1	D	2.17	51/1841 (2.8%)	2.62	148/2500 (5.9%)
1	E	2.27	69/1841 (3.7%)	2.53	129/2500 (5.2%)
1	F	2.27	73/1841 (4.0%)	2.57	146/2500 (5.8%)
1	G	2.22	66/1841 (3.6%)	2.62	143/2500 (5.7%)
1	H	2.25	64/1841 (3.5%)	2.60	147/2500 (5.9%)
1	I	2.22	59/1841 (3.2%)	2.53	125/2500 (5.0%)
1	J	2.31	71/1841 (3.9%)	2.59	150/2500 (6.0%)
1	K	2.32	73/1841 (4.0%)	2.53	144/2500 (5.8%)
1	L	2.22	62/1841 (3.4%)	2.55	158/2500 (6.3%)
1	M	2.25	73/1841 (4.0%)	2.59	146/2500 (5.8%)
1	N	2.29	65/1841 (3.5%)	2.63	147/2500 (5.9%)
1	O	2.27	76/1841 (4.1%)	2.50	132/2500 (5.3%)
1	P	2.16	56/1841 (3.0%)	2.68	161/2500 (6.4%)
1	Q	2.23	56/1841 (3.0%)	2.54	144/2500 (5.8%)
1	R	2.16	50/1841 (2.7%)	2.61	170/2500 (6.8%)
1	S	2.27	66/1841 (3.6%)	2.52	135/2500 (5.4%)
1	T	2.28	74/1841 (4.0%)	2.64	153/2500 (6.1%)
1	U	2.35	77/1841 (4.2%)	2.49	118/2500 (4.7%)
1	V	2.30	73/1841 (4.0%)	2.60	152/2500 (6.1%)
1	W	2.19	63/1841 (3.4%)	2.57	143/2500 (5.7%)
1	X	2.24	63/1841 (3.4%)	2.63	161/2500 (6.4%)
1	Y	2.24	60/1841 (3.3%)	2.66	162/2500 (6.5%)
1	Z	2.24	69/1841 (3.7%)	2.52	130/2500 (5.2%)
1	a	2.27	74/1841 (4.0%)	2.53	126/2500 (5.0%)
1	b	2.25	70/1841 (3.8%)	2.60	140/2500 (5.6%)
1	c	2.24	62/1841 (3.4%)	2.55	140/2500 (5.6%)
1	d	2.26	67/1841 (3.6%)	2.58	161/2500 (6.4%)
1	e	2.31	69/1841 (3.7%)	2.62	155/2500 (6.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	f	2.29	72/1841 (3.9%)	2.56	143/2500 (5.7%)
1	g	2.18	54/1841 (2.9%)	2.55	120/2500 (4.8%)
1	h	2.27	76/1841 (4.1%)	2.57	152/2500 (6.1%)
1	i	2.21	49/1841 (2.7%)	2.60	154/2500 (6.2%)
1	j	2.23	69/1841 (3.7%)	2.59	135/2500 (5.4%)
1	k	2.37	82/1841 (4.5%)	2.66	147/2500 (5.9%)
1	l	2.22	70/1841 (3.8%)	2.53	143/2500 (5.7%)
1	m	2.24	66/1841 (3.6%)	2.65	161/2500 (6.4%)
All	All	2.25	2778/77322 (3.6%)	2.59	6177/105000 (5.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	5	0	4
1	6	0	5
1	7	0	4
1	A	0	4
1	B	0	5
1	C	0	6
1	D	0	8
1	E	0	4
1	F	0	3
1	G	0	7
1	H	0	5
1	I	0	3
1	J	0	10
1	K	0	11
1	L	0	6
1	M	0	4
1	N	0	6
1	O	0	4
1	P	0	5
1	Q	0	3
1	R	0	3
1	S	0	6
1	T	0	3
1	U	0	7
1	V	0	9
1	W	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	X	0	3
1	Y	0	9
1	Z	0	10
1	a	0	5
1	b	0	9
1	c	0	10
1	d	0	6
1	e	0	6
1	f	0	8
1	g	0	4
1	h	0	7
1	i	0	6
1	j	0	9
1	k	0	7
1	l	0	6
1	m	0	6
All	All	0	251

All (2778) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	37	ILE	CA-CB	-15.54	1.46	1.54
1	d	92	GLU	C-N	-12.67	1.23	1.33
1	f	47	ALA	CA-C	-11.58	1.38	1.52
1	k	191	VAL	CA-CB	11.40	1.68	1.54
1	i	84	HIS	ND1-CE1	11.11	1.43	1.32
1	e	120	HIS	ND1-CE1	10.89	1.43	1.32
1	k	124	ILE	CA-CB	-10.87	1.44	1.54
1	J	146	SER	C-N	10.85	1.42	1.33
1	B	62	HIS	CE1-NE2	10.76	1.43	1.32
1	J	180	GLU	N-CA	-10.62	1.33	1.46
1	M	205	LEU	CA-CB	10.32	1.69	1.53
1	V	200	THR	CA-C	10.29	1.66	1.52
1	K	12	HIS	ND1-CE1	10.24	1.42	1.32
1	U	118	MET	CA-C	10.22	1.66	1.52
1	T	16	SER	CA-C	10.13	1.65	1.53
1	U	23	TRP	NE1-CE2	9.99	1.48	1.37
1	h	160	PRO	C-N	9.94	1.46	1.33
1	g	153	ILE	CA-CB	9.89	1.65	1.54
1	M	229	ARG	CD-NE	9.74	1.59	1.46
1	P	56	LEU	CA-CB	9.73	1.68	1.53
1	S	2	ILE	CA-C	9.71	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	37	ILE	CA-C	9.63	1.61	1.52
1	J	97	ARG	CD-NE	9.62	1.59	1.46
1	D	147	PRO	C-N	9.58	1.44	1.33
1	6	154	ARG	CD-NE	9.56	1.59	1.46
1	B	79	GLU	N-CA	-9.49	1.34	1.46
1	U	228	ALA	C-N	9.47	1.45	1.33
1	6	128	GLU	CA-C	9.46	1.65	1.52
1	P	124	ILE	CA-C	9.44	1.62	1.52
1	k	177	ALA	CA-C	9.43	1.65	1.52
1	N	218	CYS	CA-CB	9.42	1.67	1.53
1	Q	80	TRP	CA-C	9.40	1.65	1.52
1	c	229	ARG	CD-NE	9.40	1.59	1.46
1	S	84	HIS	CG-ND1	-9.39	1.27	1.38
1	V	26	VAL	CA-C	9.31	1.64	1.52
1	A	2	ILE	C-O	9.25	1.34	1.24
1	E	37	ILE	CA-CB	9.24	1.58	1.54
1	M	37	ILE	CA-CB	-9.24	1.49	1.54
1	U	177	ALA	N-CA	-9.17	1.34	1.46
1	N	28	GLU	CA-C	9.15	1.64	1.52
1	I	132	ARG	CD-NE	9.11	1.58	1.46
1	M	171	THR	CA-C	-9.08	1.40	1.52
1	A	156	GLY	CA-C	-9.04	1.39	1.51
1	j	222	GLY	N-CA	9.04	1.54	1.45
1	U	173	ARG	CD-NE	9.04	1.58	1.46
1	L	162	ARG	CD-NE	9.03	1.58	1.46
1	V	42	ALA	CA-C	9.01	1.64	1.52
1	k	90	PRO	CA-C	9.01	1.63	1.52
1	N	160	PRO	N-CA	-9.00	1.41	1.47
1	U	221	VAL	C-N	9.00	1.43	1.33
1	5	224	PRO	CA-C	8.97	1.64	1.52
1	a	114	GLN	C-N	8.97	1.43	1.34
1	a	155	GLN	CA-C	8.97	1.63	1.52
1	k	23	TRP	CA-CB	8.97	1.67	1.53
1	k	26	VAL	CA-CB	8.94	1.66	1.54
1	P	62	HIS	CE1-NE2	8.90	1.41	1.32
1	X	43	LEU	N-CA	8.90	1.57	1.46
1	6	201	ILE	CA-C	8.89	1.63	1.52
1	T	64	ALA	CA-C	8.89	1.64	1.52
1	c	137	GLY	CA-C	-8.88	1.42	1.52
1	6	62	HIS	CB-CG	8.87	1.62	1.50
1	Q	94	GLY	N-CA	8.82	1.58	1.45
1	S	160	PRO	N-CA	8.82	1.57	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	113	GLU	N-CA	-8.82	1.35	1.46
1	5	228	ALA	N-CA	-8.79	1.34	1.45
1	h	117	TRP	NE1-CE2	8.76	1.47	1.37
1	M	136	LEU	CA-CB	8.75	1.67	1.53
1	b	30	LYS	CA-C	-8.73	1.41	1.52
1	h	91	ILE	CA-C	8.71	1.62	1.52
1	l	4	GLN	CA-CB	8.70	1.67	1.53
1	5	122	PRO	C-N	-8.69	1.22	1.33
1	T	88	ALA	CA-C	8.69	1.64	1.53
1	Z	39	MET	N-CA	-8.66	1.35	1.46
1	7	2	ILE	N-CA	8.66	1.56	1.46
1	N	118	MET	CA-C	8.65	1.64	1.52
1	Y	167	ARG	CD-NE	8.65	1.58	1.46
1	O	141	ILE	C-O	-8.64	1.14	1.24
1	A	131	LYS	CA-C	8.64	1.64	1.52
1	5	159	GLU	CA-C	8.64	1.62	1.52
1	I	102	SER	N-CA	8.63	1.56	1.46
1	Y	84	HIS	ND1-CE1	8.62	1.41	1.32
1	m	35	GLU	C-N	8.61	1.44	1.33
1	H	121	ASN	CA-C	-8.60	1.42	1.52
1	Y	146	SER	C-N	-8.60	1.25	1.33
1	V	124	ILE	CA-C	8.56	1.60	1.53
1	Y	71	GLU	CA-C	8.54	1.63	1.52
1	N	124	ILE	CA-C	8.53	1.60	1.52
1	c	152	ASP	CA-C	-8.53	1.41	1.52
1	N	82	ARG	C-N	8.52	1.46	1.33
1	S	4	GLN	CA-C	8.52	1.64	1.52
1	c	174	ALA	N-CA	-8.49	1.34	1.46
1	G	19	THR	C-N	8.49	1.44	1.33
1	T	84	HIS	ND1-CE1	8.48	1.41	1.32
1	E	116	GLY	CA-C	-8.48	1.42	1.51
1	A	89	GLY	CA-C	8.48	1.64	1.51
1	W	133	TRP	CA-CB	8.44	1.67	1.53
1	W	30	LYS	N-CA	-8.44	1.37	1.46
1	C	68	MET	CA-C	8.43	1.63	1.52
1	h	224	PRO	N-CA	-8.42	1.37	1.47
1	7	92	GLU	CA-C	8.41	1.62	1.52
1	Q	37	ILE	CA-CB	8.41	1.58	1.54
1	E	130	TYR	CA-CB	8.39	1.66	1.53
1	Y	13	GLN	C-N	8.38	1.44	1.33
1	I	85	PRO	CA-C	8.38	1.62	1.52
1	k	80	TRP	CA-C	8.37	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	226	HIS	CE1-NE2	-8.37	1.24	1.32
1	m	184	TRP	CA-CB	8.36	1.66	1.53
1	J	24	VAL	CA-CB	-8.33	1.44	1.54
1	T	123	PRO	CA-CB	-8.33	1.42	1.54
1	I	146	SER	CA-CB	8.30	1.63	1.53
1	K	170	LYS	CA-C	8.29	1.63	1.52
1	V	162	ARG	CD-NE	8.25	1.57	1.46
1	A	184	TRP	CA-CB	8.23	1.66	1.53
1	S	226	HIS	ND1-CE1	8.21	1.40	1.32
1	L	80	TRP	NE1-CE2	-8.20	1.28	1.37
1	B	151	LEU	CA-C	8.20	1.63	1.52
1	7	180	GLU	CA-C	8.20	1.63	1.52
1	i	173	ARG	CD-NE	8.19	1.57	1.46
1	V	63	GLN	C-N	8.17	1.44	1.33
1	Y	183	ASN	N-CA	-8.17	1.36	1.46
1	h	81	ASP	CA-CB	8.17	1.66	1.53
1	F	132	ARG	CD-NE	8.15	1.57	1.46
1	Z	165	VAL	N-CA	-8.15	1.36	1.46
1	g	18	ARG	CA-CB	8.14	1.66	1.53
1	X	142	VAL	N-CA	-8.12	1.36	1.46
1	X	154	ARG	CD-NE	8.11	1.57	1.46
1	K	100	ARG	CA-C	-8.10	1.42	1.52
1	Z	2	ILE	N-CA	8.10	1.55	1.46
1	Z	181	VAL	C-N	8.10	1.44	1.34
1	B	107	THR	N-CA	-8.09	1.36	1.46
1	Q	162	ARG	CD-NE	8.09	1.57	1.46
1	k	68	MET	N-CA	-8.09	1.36	1.46
1	O	222	GLY	C-N	8.09	1.45	1.33
1	G	2	ILE	CA-C	8.08	1.62	1.52
1	l	148	THR	CA-C	8.08	1.63	1.52
1	G	55	MET	N-CA	8.07	1.56	1.46
1	c	140	LYS	CA-CB	8.07	1.66	1.53
1	A	6	LEU	CA-C	-8.07	1.42	1.52
1	C	20	LEU	CA-CB	8.06	1.66	1.53
1	R	130	TYR	CA-CB	8.05	1.65	1.53
1	i	37	ILE	CA-C	8.04	1.59	1.52
1	P	36	VAL	CA-CB	8.04	1.66	1.54
1	U	53	ASN	CA-C	8.04	1.63	1.52
1	f	140	LYS	N-CA	-8.03	1.36	1.46
1	L	120	HIS	CA-C	8.02	1.64	1.53
1	k	1	PRO	N-CD	8.02	1.58	1.47
1	l	120	HIS	ND1-CE1	8.01	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	84	HIS	CG-ND1	8.00	1.47	1.38
1	Y	221	VAL	N-CA	8.00	1.56	1.46
1	X	18	ARG	CD-NE	7.99	1.57	1.46
1	5	132	ARG	NE-CZ	7.99	1.41	1.33
1	J	202	LEU	N-CA	7.99	1.56	1.46
1	R	129	ILE	CA-C	7.97	1.62	1.52
1	U	204	ALA	CA-CB	7.97	1.65	1.53
1	Y	230	VAL	CA-CB	7.94	1.63	1.54
1	K	15	ILE	N-CA	-7.94	1.36	1.46
1	L	4	GLN	N-CA	7.94	1.55	1.46
1	F	198	CYS	N-CA	-7.92	1.36	1.46
1	W	97	ARG	NE-CZ	7.91	1.41	1.33
1	k	24	VAL	CA-CB	-7.90	1.44	1.54
1	G	192	GLN	CA-C	-7.90	1.42	1.52
1	k	95	GLN	CA-CB	7.90	1.61	1.53
1	5	143	ARG	CD-NE	7.89	1.57	1.46
1	h	94	GLY	CA-C	-7.89	1.40	1.51
1	A	43	LEU	CA-C	-7.88	1.42	1.52
1	g	132	ARG	NE-CZ	7.87	1.41	1.33
1	i	20	LEU	N-CA	7.84	1.55	1.46
1	f	136	LEU	C-N	7.84	1.43	1.33
1	f	87	HIS	ND1-CE1	7.83	1.40	1.32
1	M	85	PRO	C-N	7.82	1.43	1.33
1	c	100	ARG	CA-C	-7.81	1.42	1.52
1	R	168	PHE	N-CA	7.80	1.55	1.46
1	D	226	HIS	CA-C	7.79	1.63	1.52
1	g	12	HIS	ND1-CE1	7.78	1.40	1.32
1	M	21	ASN	N-CA	-7.78	1.37	1.46
1	F	95	GLN	CA-C	-7.77	1.43	1.52
1	e	88	ALA	C-N	7.77	1.45	1.33
1	M	84	HIS	CG-CD2	7.77	1.44	1.35
1	F	69	LEU	CA-CB	7.76	1.65	1.53
1	f	217	ALA	CA-C	7.76	1.62	1.52
1	a	12	HIS	CA-C	-7.76	1.43	1.52
1	b	93	PRO	N-CA	7.74	1.57	1.47
1	Z	91	ILE	CA-CB	-7.74	1.44	1.54
1	c	12	HIS	CA-C	7.74	1.62	1.52
1	P	113	GLU	CA-CB	7.73	1.65	1.53
1	G	129	ILE	N-CA	7.72	1.55	1.46
1	6	31	ALA	CA-C	7.71	1.62	1.52
1	X	226	HIS	N-CA	7.71	1.55	1.46
1	b	166	ASP	CA-C	7.71	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	26	VAL	C-N	7.70	1.42	1.33
1	Q	82	ARG	NE-CZ	7.70	1.41	1.33
1	e	68	MET	CA-C	7.70	1.63	1.52
1	N	20	LEU	CA-C	-7.68	1.42	1.52
1	L	96	MET	C-N	7.67	1.44	1.33
1	Z	21	ASN	CA-CB	7.67	1.65	1.53
1	U	13	GLN	N-CA	-7.66	1.36	1.46
1	H	53	ASN	CA-C	-7.66	1.42	1.52
1	J	225	GLY	CA-C	7.66	1.59	1.52
1	O	79	GLU	CA-C	-7.66	1.43	1.52
1	X	202	LEU	C-N	7.66	1.43	1.33
1	O	84	HIS	C-O	-7.65	1.20	1.23
1	5	227	LYS	C-N	7.65	1.43	1.33
1	Q	213	GLU	C-N	7.64	1.43	1.33
1	X	82	ARG	CD-NE	7.64	1.56	1.46
1	d	62	HIS	CE1-NE2	7.64	1.40	1.32
1	J	23	TRP	NE1-CE2	7.63	1.45	1.37
1	K	150	ILE	CA-CB	7.63	1.64	1.54
1	U	133	TRP	NE1-CE2	7.63	1.45	1.37
1	S	34	PRO	N-CD	-7.62	1.37	1.47
1	k	84	HIS	CD2-NE2	7.62	1.46	1.37
1	O	25	LYS	C-O	-7.62	1.14	1.24
1	h	33	SER	CA-C	-7.61	1.42	1.52
1	e	192	GLN	N-CA	-7.60	1.37	1.46
1	U	84	HIS	CD2-NE2	7.60	1.46	1.37
1	h	84	HIS	ND1-CE1	7.60	1.40	1.32
1	b	92	GLU	CA-C	7.60	1.62	1.53
1	l	162	ARG	CD-NE	7.60	1.56	1.46
1	b	33	SER	CA-CB	7.59	1.63	1.53
1	C	160	PRO	CA-C	7.59	1.61	1.53
1	R	45	GLU	CA-CB	7.59	1.63	1.53
1	d	180	GLU	CA-CB	7.58	1.65	1.53
1	d	176	GLN	CA-C	7.58	1.62	1.53
1	5	183	ASN	CA-C	7.57	1.62	1.52
1	Y	120	HIS	CE1-NE2	7.57	1.40	1.32
1	e	153	ILE	CA-CB	-7.57	1.44	1.54
1	B	143	ARG	CA-C	-7.56	1.43	1.52
1	M	119	THR	C-N	7.55	1.43	1.33
1	Q	189	LEU	CA-CB	7.55	1.66	1.53
1	Y	47	ALA	N-CA	-7.55	1.36	1.46
1	Y	195	ASN	CA-C	7.55	1.60	1.53
1	F	152	ASP	CA-C	7.55	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	56	LEU	CA-C	7.54	1.62	1.52
1	U	37	ILE	C-O	-7.53	1.17	1.24
1	Y	85	PRO	CA-CB	-7.52	1.43	1.53
1	X	172	LEU	N-CA	-7.52	1.36	1.46
1	l	84	HIS	CE1-NE2	-7.51	1.25	1.32
1	E	39	MET	CA-C	-7.51	1.43	1.52
1	C	84	HIS	ND1-CE1	7.50	1.40	1.32
1	f	229	ARG	CD-NE	7.50	1.56	1.46
1	D	26	VAL	C-N	7.50	1.43	1.34
1	i	153	ILE	CA-CB	-7.50	1.46	1.54
1	h	144	MET	N-CA	7.49	1.55	1.46
1	e	159	GLU	CA-C	7.48	1.61	1.52
1	Z	120	HIS	CG-CD2	-7.48	1.27	1.35
1	6	113	GLU	CA-C	7.47	1.62	1.52
1	E	48	THR	CA-C	7.47	1.62	1.53
1	N	16	SER	CA-CB	7.47	1.63	1.53
1	A	127	GLY	C-N	7.47	1.43	1.33
1	R	223	GLY	N-CA	7.47	1.54	1.44
1	j	130	TYR	CA-C	7.46	1.62	1.52
1	c	57	ASN	CA-CB	7.46	1.65	1.53
1	U	113	GLU	C-N	7.46	1.43	1.33
1	k	3	VAL	CA-C	-7.46	1.43	1.52
1	A	133	TRP	CA-C	7.45	1.62	1.52
1	B	167	ARG	C-N	7.45	1.43	1.33
1	N	31	ALA	CA-C	7.45	1.62	1.52
1	I	109	SER	CA-C	-7.44	1.43	1.52
1	7	163	ASP	N-CA	-7.44	1.37	1.46
1	b	6	LEU	CA-C	-7.43	1.43	1.52
1	f	119	THR	CA-C	7.43	1.62	1.52
1	Y	189	LEU	N-CA	7.42	1.55	1.46
1	V	124	ILE	CA-CB	-7.42	1.46	1.53
1	Y	202	LEU	N-CA	-7.42	1.37	1.46
1	j	73	ILE	CA-CB	-7.42	1.43	1.54
1	U	127	GLY	C-N	7.42	1.44	1.33
1	K	210	THR	CA-CB	7.41	1.65	1.53
1	P	84	HIS	CA-C	7.40	1.60	1.52
1	T	46	GLY	C-N	-7.40	1.23	1.33
1	5	155	GLN	N-CA	7.40	1.55	1.46
1	d	173	ARG	CD-NE	7.40	1.56	1.46
1	E	127	GLY	CA-C	-7.40	1.43	1.52
1	b	181	VAL	C-N	7.39	1.44	1.33
1	f	50	GLN	CA-CB	7.39	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	74	ASN	N-CA	7.39	1.56	1.46
1	a	73	ILE	CA-CB	-7.39	1.44	1.54
1	M	30	LYS	CA-C	7.38	1.59	1.52
1	L	146	SER	C-N	-7.38	1.27	1.33
1	l	222	GLY	N-CA	7.37	1.56	1.45
1	m	203	LYS	CA-CB	7.37	1.64	1.53
1	K	69	LEU	CA-CB	7.36	1.64	1.53
1	5	18	ARG	CD-NE	7.36	1.56	1.46
1	Q	182	LYS	CA-C	-7.35	1.43	1.52
1	d	174	ALA	CA-C	7.34	1.62	1.52
1	H	198	CYS	N-CA	-7.33	1.36	1.46
1	i	54	THR	N-CA	7.33	1.55	1.46
1	m	124	ILE	CA-CB	-7.33	1.44	1.54
1	G	224	PRO	CA-CB	7.32	1.63	1.53
1	C	158	LYS	CA-CB	7.31	1.65	1.53
1	c	77	ALA	CA-C	-7.31	1.43	1.52
1	l	162	ARG	N-CA	7.31	1.55	1.46
1	i	147	PRO	CA-C	-7.30	1.43	1.52
1	e	62	HIS	CA-C	-7.30	1.44	1.53
1	D	36	VAL	N-CA	7.30	1.55	1.46
1	L	86	VAL	CA-C	7.30	1.61	1.52
1	Z	12	HIS	CG-ND1	-7.29	1.30	1.38
1	m	57	ASN	N-CA	-7.29	1.36	1.46
1	J	162	ARG	CD-NE	7.29	1.56	1.46
1	k	167	ARG	CD-NE	7.29	1.56	1.46
1	f	162	ARG	CA-CB	7.29	1.64	1.53
1	Y	57	ASN	CA-C	7.28	1.62	1.52
1	Z	18	ARG	NE-CZ	7.28	1.41	1.33
1	Z	132	ARG	CD-NE	7.28	1.56	1.46
1	T	172	LEU	CA-CB	7.27	1.65	1.53
1	K	103	ASP	N-CA	-7.27	1.37	1.46
1	A	58	THR	CA-CB	-7.26	1.42	1.53
1	L	205	LEU	N-CA	7.26	1.55	1.46
1	J	2	ILE	N-CA	7.26	1.55	1.46
1	R	147	PRO	CA-C	-7.26	1.44	1.52
1	e	97	ARG	CD-NE	7.26	1.56	1.46
1	c	93	PRO	C-N	7.26	1.44	1.33
1	5	153	ILE	CA-CB	-7.25	1.46	1.54
1	f	160	PRO	CA-C	7.25	1.62	1.52
1	C	219	GLN	CA-C	-7.24	1.43	1.52
1	L	25	LYS	C-N	7.24	1.43	1.33
1	c	110	THR	C-N	7.24	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	221	VAL	CA-CB	-7.24	1.46	1.54
1	L	117	TRP	CA-C	-7.24	1.43	1.52
1	P	136	LEU	CA-CB	7.24	1.64	1.53
1	S	151	LEU	CA-C	7.24	1.62	1.52
1	5	142	VAL	CA-CB	-7.23	1.45	1.54
1	F	162	ARG	NE-CZ	-7.23	1.25	1.33
1	P	110	THR	N-CA	7.23	1.54	1.45
1	h	59	VAL	CA-CB	-7.22	1.47	1.54
1	e	85	PRO	C-N	7.22	1.43	1.33
1	k	79	GLU	N-CA	-7.22	1.37	1.46
1	H	71	GLU	CA-CB	7.21	1.64	1.53
1	U	2	ILE	CA-C	7.21	1.61	1.52
1	X	162	ARG	N-CA	-7.21	1.37	1.46
1	f	149	SER	CA-C	7.21	1.61	1.52
1	A	188	THR	CA-C	-7.21	1.45	1.53
1	d	16	SER	CA-C	7.21	1.61	1.53
1	H	33	SER	CA-C	-7.21	1.45	1.53
1	6	43	LEU	N-CA	-7.21	1.36	1.46
1	M	120	HIS	C-N	7.20	1.41	1.33
1	H	80	TRP	NE1-CE2	7.20	1.45	1.37
1	f	124	ILE	CA-CB	7.20	1.60	1.54
1	b	161	PHE	CA-C	-7.19	1.43	1.52
1	M	219	GLN	CA-CB	7.18	1.63	1.53
1	X	72	THR	CA-CB	-7.18	1.42	1.53
1	S	102	SER	C-N	7.17	1.43	1.33
1	5	171	THR	N-CA	-7.17	1.37	1.46
1	e	197	ASP	CA-CB	7.17	1.65	1.53
1	m	82	ARG	CD-NE	7.16	1.56	1.46
1	R	124	ILE	CA-CB	7.16	1.61	1.53
1	a	59	VAL	N-CA	-7.16	1.37	1.46
1	l	21	ASN	CA-CB	7.16	1.64	1.53
1	M	139	ASN	CA-CB	7.16	1.65	1.53
1	N	107	THR	N-CA	7.16	1.55	1.46
1	O	212	GLU	N-CA	7.15	1.55	1.46
1	S	11	VAL	CA-C	7.15	1.61	1.52
1	A	189	LEU	C-N	7.15	1.43	1.33
1	X	193	ASN	CA-CB	7.13	1.63	1.53
1	j	40	PHE	CA-C	7.13	1.61	1.52
1	j	119	THR	CA-C	-7.13	1.42	1.52
1	E	196	PRO	C-N	7.13	1.43	1.33
1	G	179	GLN	CA-C	-7.12	1.43	1.52
1	K	32	PHE	CA-CB	7.12	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	143	ARG	CD-NE	7.12	1.56	1.46
1	G	121	ASN	CA-CB	7.11	1.62	1.52
1	N	34	PRO	CA-C	7.11	1.64	1.52
1	T	73	ILE	N-CA	-7.11	1.38	1.46
1	7	24	VAL	N-CA	-7.11	1.36	1.46
1	6	194	ALA	CA-C	-7.10	1.44	1.52
1	V	142	VAL	N-CA	-7.10	1.37	1.46
1	K	205	LEU	N-CA	7.10	1.55	1.46
1	Y	12	HIS	ND1-CE1	7.10	1.39	1.32
1	V	136	LEU	CA-C	-7.09	1.43	1.52
1	L	49	PRO	CA-CB	-7.09	1.43	1.53
1	U	129	ILE	CA-CB	7.09	1.64	1.54
1	l	28	GLU	C-N	7.09	1.43	1.33
1	k	131	LYS	CA-C	-7.09	1.43	1.52
1	A	83	LEU	C-N	7.08	1.39	1.33
1	C	63	GLN	N-CA	-7.08	1.37	1.46
1	R	162	ARG	CA-C	-7.08	1.43	1.52
1	V	19	THR	CA-C	-7.08	1.43	1.52
1	H	172	LEU	N-CA	-7.08	1.37	1.46
1	5	34	PRO	CA-CB	-7.08	1.43	1.53
1	b	126	VAL	C-N	7.08	1.42	1.33
1	i	187	GLU	CA-C	7.07	1.61	1.52
1	d	23	TRP	CA-C	7.07	1.61	1.52
1	K	113	GLU	C-N	7.07	1.43	1.33
1	k	124	ILE	CA-C	7.06	1.59	1.52
1	7	32	PHE	CA-CB	7.06	1.65	1.53
1	E	143	ARG	CA-CB	7.06	1.65	1.53
1	i	221	VAL	N-CA	7.06	1.55	1.46
1	N	182	LYS	CA-CB	7.05	1.64	1.53
1	6	201	ILE	CA-CB	7.05	1.62	1.54
1	7	106	GLY	CA-C	7.05	1.61	1.51
1	f	220	GLY	N-CA	7.05	1.54	1.45
1	F	167	ARG	C-N	7.05	1.42	1.33
1	P	166	ASP	CA-C	-7.05	1.43	1.52
1	J	218	CYS	CA-CB	7.04	1.62	1.53
1	T	144	MET	CA-CB	7.04	1.65	1.53
1	j	70	LYS	N-CA	7.04	1.54	1.46
1	m	173	ARG	CD-NE	7.04	1.56	1.46
1	R	156	GLY	N-CA	7.04	1.54	1.44
1	Y	228	ALA	N-CA	-7.04	1.37	1.46
1	F	40	PHE	CA-C	7.03	1.61	1.52
1	6	18	ARG	CD-NE	7.03	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	182	LYS	CA-CB	7.03	1.64	1.53
1	m	139	ASN	CA-CB	7.03	1.64	1.53
1	M	108	THR	CA-C	-7.03	1.44	1.53
1	M	154	ARG	CD-NE	7.02	1.56	1.46
1	S	54	THR	N-CA	7.02	1.54	1.46
1	B	229	ARG	CD-NE	7.02	1.56	1.46
1	X	84	HIS	CA-CB	7.02	1.64	1.54
1	V	124	ILE	N-CA	7.02	1.51	1.46
1	Z	65	ALA	CA-C	7.01	1.61	1.52
1	H	226	HIS	CE1-NE2	7.01	1.39	1.32
1	V	163	ASP	CA-CB	7.01	1.65	1.53
1	C	56	LEU	N-CA	-7.00	1.37	1.46
1	Q	184	TRP	C-N	7.00	1.43	1.33
1	F	82	ARG	CA-CB	7.00	1.65	1.53
1	O	182	LYS	C-O	6.99	1.32	1.24
1	I	187	GLU	CA-CB	6.99	1.64	1.53
1	B	92	GLU	C-N	-6.98	1.27	1.34
1	E	14	ALA	C-N	6.98	1.42	1.33
1	O	97	ARG	CA-CB	6.98	1.64	1.53
1	7	138	LEU	N-CA	6.98	1.54	1.46
1	J	110	THR	CA-C	-6.98	1.43	1.53
1	6	84	HIS	N-CA	-6.98	1.39	1.46
1	T	218	CYS	CA-CB	6.97	1.62	1.53
1	P	120	HIS	CE1-NE2	6.97	1.39	1.32
1	C	30	LYS	CA-C	6.97	1.61	1.52
1	O	188	THR	CA-C	-6.96	1.48	1.52
1	K	95	GLN	CA-C	-6.96	1.44	1.52
1	Q	108	THR	CA-C	-6.96	1.43	1.52
1	e	169	TYR	N-CA	-6.96	1.38	1.46
1	G	98	GLU	CA-C	6.95	1.61	1.53
1	F	129	ILE	CA-C	6.95	1.61	1.52
1	7	51	ASP	N-CA	6.94	1.54	1.46
1	C	195	ASN	CA-C	6.94	1.60	1.53
1	m	84	HIS	ND1-CE1	6.94	1.39	1.32
1	H	63	GLN	N-CA	-6.94	1.38	1.46
1	X	48	THR	C-N	-6.93	1.25	1.33
1	H	71	GLU	CA-C	6.93	1.61	1.52
1	Y	121	ASN	CA-CB	6.93	1.62	1.53
1	i	5	ASN	N-CA	-6.93	1.38	1.46
1	L	45	GLU	C-N	6.93	1.43	1.33
1	l	224	PRO	N-CA	6.93	1.53	1.46
1	e	124	ILE	CA-C	-6.92	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	92	GLU	CA-C	6.92	1.60	1.52
1	c	26	VAL	CA-CB	6.92	1.63	1.54
1	T	95	GLN	CA-C	-6.92	1.44	1.52
1	5	66	MET	C-N	6.91	1.43	1.33
1	f	8	GLY	CA-C	-6.91	1.39	1.51
1	G	224	PRO	CA-C	-6.91	1.43	1.52
1	A	51	ASP	CA-C	-6.91	1.44	1.52
1	G	23	TRP	CA-CB	6.91	1.64	1.53
1	M	9	GLN	C-N	6.91	1.42	1.33
1	F	13	GLN	N-CA	-6.91	1.37	1.45
1	B	171	THR	C-O	-6.91	1.16	1.24
1	C	202	LEU	C-O	-6.90	1.16	1.24
1	F	82	ARG	CZ-NH2	-6.90	1.24	1.33
1	e	180	GLU	CA-CB	-6.89	1.42	1.53
1	j	138	LEU	CA-CB	6.89	1.64	1.53
1	N	23	TRP	N-CA	-6.89	1.38	1.46
1	k	113	GLU	N-CA	-6.89	1.38	1.46
1	b	45	GLU	N-CA	-6.89	1.37	1.46
1	7	177	ALA	CA-C	-6.88	1.44	1.52
1	a	126	VAL	CA-C	6.87	1.61	1.52
1	W	99	PRO	CA-CB	-6.87	1.45	1.53
1	j	72	THR	CA-C	6.87	1.61	1.52
1	V	132	ARG	CD-NE	6.87	1.55	1.46
1	V	49	PRO	N-CD	-6.86	1.38	1.47
1	k	94	GLY	CA-C	-6.86	1.41	1.51
1	U	145	TYR	CA-C	-6.86	1.42	1.52
1	C	14	ALA	C-N	6.86	1.41	1.33
1	G	153	ILE	C-N	6.86	1.42	1.33
1	f	229	ARG	CA-C	6.86	1.60	1.52
1	g	134	ILE	CA-C	6.86	1.61	1.52
1	V	54	THR	N-CA	6.86	1.54	1.46
1	D	153	ILE	CA-C	6.85	1.60	1.52
1	W	62	HIS	CA-C	6.85	1.62	1.53
1	a	74	ASN	CA-CB	6.85	1.64	1.53
1	g	100	ARG	CD-NE	6.85	1.55	1.46
1	E	193	ASN	CA-C	6.84	1.62	1.52
1	A	99	PRO	CA-C	6.84	1.59	1.52
1	V	122	PRO	N-CD	-6.83	1.38	1.47
1	B	69	LEU	C-N	6.83	1.42	1.33
1	W	73	ILE	N-CA	-6.83	1.38	1.46
1	B	110	THR	CA-C	6.83	1.61	1.52
1	S	98	GLU	CA-C	6.83	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	223	GLY	CA-C	6.83	1.61	1.51
1	a	128	GLU	C-N	6.83	1.42	1.33
1	b	115	ILE	CA-C	6.83	1.61	1.52
1	a	28	GLU	CA-CB	6.83	1.64	1.53
1	E	44	SER	CA-C	6.82	1.62	1.52
1	j	35	GLU	CA-C	6.82	1.62	1.52
1	U	175	GLU	C-N	6.82	1.42	1.33
1	C	190	LEU	CA-CB	6.82	1.64	1.53
1	P	8	GLY	N-CA	6.81	1.54	1.45
1	S	37	ILE	CA-CB	6.81	1.58	1.53
1	j	17	PRO	N-CD	-6.80	1.38	1.47
1	T	12	HIS	ND1-CE1	6.80	1.39	1.32
1	N	81	ASP	C-O	-6.80	1.16	1.24
1	d	133	TRP	CZ2-CH2	6.80	1.50	1.37
1	X	143	ARG	N-CA	-6.79	1.38	1.46
1	Z	151	LEU	CA-CB	6.79	1.63	1.53
1	c	151	LEU	C-N	6.79	1.43	1.33
1	N	84	HIS	ND1-CE1	6.79	1.39	1.32
1	h	65	ALA	CA-CB	6.78	1.64	1.53
1	h	129	ILE	CA-CB	-6.78	1.46	1.54
1	i	80	TRP	NE1-CE2	6.77	1.45	1.37
1	B	129	ILE	CB-CG1	6.76	1.67	1.53
1	V	143	ARG	CD-NE	6.76	1.55	1.46
1	W	92	GLU	CA-CB	6.76	1.62	1.53
1	a	173	ARG	NE-CZ	6.76	1.40	1.33
1	Q	6	LEU	CA-CB	6.76	1.63	1.53
1	c	50	GLN	CA-C	6.75	1.61	1.52
1	7	179	GLN	N-CA	6.75	1.54	1.46
1	h	87	HIS	ND1-CE1	6.75	1.39	1.32
1	W	116	GLY	CA-C	-6.75	1.44	1.52
1	A	229	ARG	CD-NE	6.75	1.55	1.46
1	V	224	PRO	N-CD	-6.75	1.38	1.47
1	H	80	TRP	CA-CB	6.75	1.63	1.53
1	U	104	ILE	N-CA	6.75	1.54	1.46
1	W	201	ILE	C-N	6.75	1.42	1.33
1	K	154	ARG	NE-CZ	6.74	1.40	1.33
1	I	87	HIS	ND1-CE1	6.74	1.39	1.32
1	Z	204	ALA	N-CA	6.74	1.54	1.46
1	m	50	GLN	N-CA	-6.74	1.38	1.46
1	C	100	ARG	CD-NE	6.74	1.55	1.46
1	N	141	ILE	C-N	6.74	1.42	1.33
1	f	123	PRO	CA-C	6.73	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	145	TYR	CA-CB	6.73	1.65	1.53
1	Y	38	PRO	N-CD	-6.73	1.38	1.47
1	5	93	PRO	N-CA	6.73	1.55	1.47
1	c	181	VAL	CA-CB	-6.73	1.46	1.54
1	U	87	HIS	ND1-CE1	6.73	1.39	1.32
1	a	198	CYS	CA-C	6.73	1.61	1.52
1	I	88	ALA	CA-C	-6.73	1.43	1.52
1	a	171	THR	N-CA	6.73	1.54	1.46
1	X	229	ARG	CA-C	6.72	1.60	1.53
1	S	197	ASP	N-CA	-6.72	1.38	1.46
1	C	224	PRO	CA-CB	6.72	1.63	1.53
1	T	80	TRP	NE1-CE2	6.72	1.44	1.37
1	a	4	GLN	CA-C	6.72	1.61	1.52
1	m	74	ASN	CA-CB	6.72	1.64	1.53
1	R	62	HIS	ND1-CE1	6.72	1.39	1.32
1	i	195	ASN	CA-C	6.71	1.60	1.53
1	A	172	LEU	CA-C	-6.71	1.44	1.52
1	J	37	ILE	N-CA	6.71	1.54	1.46
1	j	169	TYR	CA-C	6.71	1.61	1.52
1	Z	2	ILE	C-O	6.70	1.31	1.24
1	6	173	ARG	CD-NE	6.70	1.55	1.46
1	l	109	SER	N-CA	6.70	1.54	1.45
1	h	189	LEU	N-CA	6.70	1.54	1.46
1	O	148	THR	C-N	6.70	1.42	1.33
1	E	133	TRP	C-N	6.70	1.42	1.33
1	P	92	GLU	CA-C	-6.70	1.44	1.52
1	S	73	ILE	CA-CB	-6.70	1.46	1.54
1	W	116	GLY	N-CA	-6.70	1.36	1.45
1	V	199	LYS	CA-C	-6.70	1.44	1.52
1	X	10	MET	CA-C	-6.70	1.44	1.52
1	V	136	LEU	CA-CB	6.69	1.64	1.53
1	R	155	GLN	CA-CB	6.69	1.62	1.53
1	c	198	CYS	CA-C	-6.69	1.44	1.52
1	m	116	GLY	C-N	6.69	1.42	1.33
1	S	183	ASN	CA-C	-6.69	1.44	1.52
1	W	216	THR	CA-CB	-6.68	1.43	1.53
1	B	144	MET	CA-CB	6.68	1.63	1.53
1	H	179	GLN	CA-C	6.68	1.61	1.52
1	P	213	GLU	CA-CB	6.68	1.63	1.53
1	K	120	HIS	ND1-CE1	6.68	1.39	1.32
1	k	99	PRO	CA-C	6.68	1.59	1.52
1	m	87	HIS	ND1-CE1	6.68	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	61	GLY	N-CA	6.67	1.53	1.45
1	m	23	TRP	N-CA	-6.67	1.38	1.46
1	W	123	PRO	N-CD	-6.67	1.38	1.47
1	E	2	ILE	CA-CB	-6.67	1.46	1.54
1	6	12	HIS	ND1-CE1	6.67	1.39	1.32
1	W	135	ILE	C-N	6.67	1.42	1.33
1	k	67	GLN	C-O	-6.67	1.16	1.24
1	B	229	ARG	CA-C	6.67	1.61	1.52
1	B	23	TRP	CA-C	-6.66	1.44	1.52
1	b	86	VAL	C-O	-6.66	1.16	1.24
1	R	114	GLN	CA-C	-6.66	1.44	1.52
1	e	57	ASN	C-N	6.65	1.42	1.33
1	Z	179	GLN	N-CA	-6.65	1.38	1.46
1	l	100	ARG	CD-NE	6.65	1.55	1.46
1	O	81	ASP	CA-C	6.65	1.61	1.52
1	Q	112	GLN	CA-CB	6.65	1.65	1.53
1	N	90	PRO	CA-CB	-6.64	1.44	1.53
1	J	130	TYR	N-CA	6.64	1.54	1.46
1	B	68	MET	CA-C	6.64	1.61	1.52
1	P	154	ARG	NE-CZ	6.64	1.40	1.33
1	U	201	ILE	CA-CB	-6.64	1.46	1.54
1	G	90	PRO	N-CD	-6.64	1.38	1.47
1	7	154	ARG	CA-C	-6.63	1.44	1.52
1	M	123	PRO	CA-CB	-6.63	1.45	1.53
1	B	96	MET	CA-C	6.63	1.61	1.52
1	H	62	HIS	CE1-NE2	6.63	1.39	1.32
1	G	59	VAL	N-CA	-6.63	1.38	1.46
1	e	170	LYS	C-N	6.63	1.42	1.33
1	b	7	GLN	C-N	6.62	1.44	1.33
1	O	146	SER	C-N	-6.62	1.25	1.34
1	U	82	ARG	CA-CB	6.62	1.64	1.53
1	V	203	LYS	CA-CB	6.62	1.63	1.53
1	S	87	HIS	ND1-CE1	6.61	1.39	1.32
1	W	137	GLY	C-N	6.61	1.43	1.34
1	f	103	ASP	C-N	6.61	1.42	1.33
1	k	184	TRP	C-N	6.61	1.42	1.33
1	E	40	PHE	N-CA	-6.61	1.38	1.46
1	N	91	ILE	CA-C	-6.61	1.44	1.52
1	P	86	VAL	CA-C	-6.61	1.47	1.52
1	l	180	GLU	CA-C	-6.60	1.44	1.52
1	Z	73	ILE	CA-C	6.60	1.60	1.52
1	m	142	VAL	CA-CB	-6.60	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	175	GLU	C-N	6.60	1.42	1.33
1	G	123	PRO	CA-CB	-6.59	1.44	1.53
1	D	49	PRO	C-N	6.59	1.42	1.33
1	W	52	LEU	C-N	6.59	1.42	1.33
1	X	83	LEU	C-N	6.58	1.42	1.33
1	f	80	TRP	C-N	6.58	1.43	1.34
1	a	100	ARG	CD-NE	6.58	1.55	1.46
1	5	111	LEU	CA-CB	6.58	1.63	1.53
1	A	78	ALA	CA-C	6.57	1.61	1.52
1	C	173	ARG	N-CA	-6.56	1.37	1.46
1	b	77	ALA	N-CA	-6.56	1.38	1.46
1	T	123	PRO	N-CA	-6.56	1.40	1.46
1	E	228	ALA	C-N	6.56	1.41	1.33
1	J	215	MET	C-N	6.55	1.43	1.33
1	g	51	ASP	CA-CB	6.55	1.63	1.53
1	e	145	TYR	CA-C	6.55	1.61	1.52
1	E	91	ILE	N-CA	6.55	1.54	1.46
1	K	187	GLU	N-CA	6.55	1.54	1.46
1	e	117	TRP	CA-C	6.55	1.61	1.52
1	5	23	TRP	NE1-CE2	6.55	1.44	1.37
1	h	100	ARG	CA-C	-6.55	1.44	1.52
1	M	146	SER	C-N	6.54	1.42	1.34
1	f	5	ASN	N-CA	-6.54	1.37	1.46
1	L	173	ARG	CA-CB	6.54	1.64	1.53
1	O	1	PRO	N-CD	6.54	1.56	1.47
1	Q	140	LYS	C-O	-6.54	1.16	1.24
1	X	22	ALA	C-N	6.54	1.42	1.33
1	P	156	GLY	N-CA	6.54	1.53	1.44
1	Y	130	TYR	CA-C	-6.53	1.44	1.52
1	Y	127	GLY	N-CA	-6.53	1.37	1.45
1	Y	74	ASN	C-N	6.53	1.42	1.33
1	O	12	HIS	ND1-CE1	6.52	1.39	1.32
1	Q	87	HIS	ND1-CE1	6.52	1.39	1.32
1	R	2	ILE	CA-CB	-6.52	1.46	1.54
1	R	68	MET	CA-CB	6.52	1.64	1.53
1	h	92	GLU	N-CA	-6.52	1.36	1.46
1	B	62	HIS	C-N	6.52	1.43	1.33
1	i	78	ALA	N-CA	-6.52	1.38	1.46
1	M	102	SER	CA-CB	6.52	1.64	1.53
1	a	142	VAL	CA-C	-6.51	1.43	1.52
1	6	85	PRO	CA-CB	6.51	1.63	1.53
1	5	216	THR	C-N	6.51	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	109	SER	C-O	-6.51	1.16	1.23
1	6	4	GLN	CA-C	-6.51	1.44	1.52
1	f	128	GLU	C-N	6.50	1.42	1.33
1	m	140	LYS	C-N	6.50	1.41	1.33
1	l	201	ILE	N-CA	6.50	1.54	1.46
1	6	83	LEU	CB-CG	6.50	1.66	1.53
1	T	144	MET	C-N	-6.50	1.25	1.33
1	5	116	GLY	C-N	-6.50	1.24	1.33
1	m	54	THR	C-O	-6.49	1.16	1.24
1	R	178	SER	N-CA	6.49	1.54	1.45
1	R	82	ARG	C-N	6.49	1.42	1.33
1	U	84	HIS	CA-CB	6.49	1.62	1.53
1	a	161	PHE	N-CA	-6.48	1.38	1.46
1	O	60	GLY	N-CA	6.48	1.54	1.45
1	Y	68	MET	N-CA	6.48	1.54	1.46
1	d	175	GLU	CA-CB	6.48	1.63	1.53
1	A	123	PRO	C-N	6.47	1.39	1.33
1	J	164	TYR	C-N	6.47	1.42	1.33
1	d	14	ALA	CA-CB	6.47	1.64	1.53
1	M	44	SER	CA-C	-6.47	1.42	1.52
1	5	188	THR	CA-C	-6.46	1.47	1.52
1	P	173	ARG	NE-CZ	6.46	1.40	1.33
1	g	80	TRP	CA-CB	6.46	1.63	1.53
1	J	119	THR	C-N	-6.46	1.25	1.33
1	P	131	LYS	N-CA	-6.46	1.38	1.46
1	H	2	ILE	CA-C	6.46	1.60	1.52
1	G	97	ARG	CD-NE	6.46	1.55	1.46
1	R	224	PRO	CA-C	6.46	1.61	1.52
1	7	200	THR	N-CA	6.45	1.54	1.46
1	I	77	ALA	CA-CB	6.45	1.64	1.53
1	E	134	ILE	CA-C	-6.44	1.44	1.52
1	I	23	TRP	CA-CB	6.44	1.63	1.53
1	d	37	ILE	CA-CB	-6.44	1.50	1.54
1	h	229	ARG	CD-NE	6.44	1.55	1.46
1	B	89	GLY	N-CA	6.44	1.53	1.44
1	j	120	HIS	CA-C	6.44	1.61	1.53
1	A	32	PHE	C-N	6.43	1.40	1.33
1	f	21	ASN	CA-CB	-6.43	1.43	1.53
1	c	166	ASP	CA-CB	6.43	1.63	1.53
1	a	25	LYS	CA-C	6.42	1.61	1.52
1	l	45	GLU	CA-CB	6.42	1.64	1.53
1	b	140	LYS	C-N	6.42	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	139	ASN	CA-CB	6.42	1.64	1.53
1	W	110	THR	C-N	6.42	1.42	1.33
1	5	128	GLU	C-N	-6.42	1.25	1.33
1	G	42	ALA	N-CA	6.41	1.54	1.46
1	f	2	ILE	N-CA	6.41	1.53	1.46
1	H	45	GLU	CA-C	6.41	1.61	1.52
1	l	80	TRP	NE1-CE2	-6.41	1.30	1.37
1	c	63	GLN	C-N	6.41	1.42	1.33
1	B	80	TRP	NE1-CE2	-6.40	1.30	1.37
1	D	5	ASN	CA-CB	6.40	1.63	1.53
1	6	18	ARG	CA-CB	6.40	1.63	1.53
1	7	25	LYS	N-CA	6.40	1.54	1.46
1	V	126	VAL	C-N	6.40	1.42	1.33
1	M	3	VAL	C-N	6.39	1.42	1.33
1	U	104	ILE	CA-C	-6.39	1.44	1.52
1	U	185	MET	CA-CB	6.39	1.63	1.53
1	Y	18	ARG	CA-C	6.39	1.61	1.52
1	Y	166	ASP	CA-CB	6.39	1.63	1.53
1	P	137	GLY	CA-C	6.39	1.59	1.52
1	a	142	VAL	N-CA	6.39	1.54	1.46
1	N	138	LEU	CA-CB	6.39	1.63	1.53
1	I	77	ALA	C-N	6.39	1.41	1.33
1	U	37	ILE	CA-CB	-6.39	1.50	1.54
1	m	9	GLN	CA-CB	6.39	1.63	1.53
1	A	146	SER	CA-C	6.38	1.61	1.52
1	I	62	HIS	CE1-NE2	6.38	1.39	1.32
1	X	51	ASP	CA-CB	6.38	1.63	1.53
1	5	120	HIS	CA-CB	6.38	1.64	1.53
1	A	120	HIS	ND1-CE1	6.38	1.39	1.32
1	K	150	ILE	N-CA	-6.38	1.38	1.46
1	U	154	ARG	CA-C	-6.38	1.45	1.52
1	A	132	ARG	CA-C	6.38	1.60	1.52
1	T	214	MET	CA-C	6.38	1.61	1.52
1	f	190	LEU	N-CA	6.38	1.53	1.46
1	D	218	CYS	C-O	-6.37	1.16	1.24
1	X	139	ASN	CA-CB	6.37	1.63	1.53
1	R	155	GLN	N-CA	6.37	1.54	1.46
1	T	17	PRO	CA-C	-6.37	1.41	1.52
1	H	136	LEU	CA-CB	6.36	1.63	1.53
1	N	175	GLU	CA-CB	6.36	1.63	1.53
1	T	157	PRO	N-CD	-6.36	1.38	1.47
1	i	142	VAL	CA-CB	6.36	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	230	VAL	C-N	6.36	1.42	1.33
1	L	197	ASP	CA-CB	6.36	1.63	1.53
1	i	147	PRO	N-CD	-6.36	1.38	1.47
1	e	18	ARG	CD-NE	6.36	1.55	1.46
1	a	152	ASP	CA-C	6.36	1.60	1.52
1	C	189	LEU	CA-C	6.35	1.61	1.52
1	T	122	PRO	N-CA	-6.35	1.36	1.47
1	6	67	GLN	CA-CB	6.35	1.63	1.53
1	f	63	GLN	CA-C	-6.35	1.43	1.52
1	b	224	PRO	CA-C	-6.35	1.43	1.52
1	N	162	ARG	CD-NE	6.35	1.55	1.46
1	d	1	PRO	N-CA	6.35	1.56	1.47
1	G	204	ALA	CA-C	-6.35	1.44	1.52
1	L	184	TRP	C-N	6.35	1.42	1.33
1	W	156	GLY	C-N	6.35	1.42	1.34
1	h	183	ASN	CA-C	-6.35	1.44	1.52
1	U	84	HIS	N-CA	-6.35	1.39	1.46
1	A	56	LEU	CA-C	-6.34	1.44	1.52
1	k	36	VAL	C-O	-6.34	1.17	1.24
1	L	67	GLN	CA-CB	6.34	1.63	1.53
1	e	107	THR	N-CA	-6.34	1.38	1.46
1	D	131	LYS	CA-CB	6.34	1.63	1.53
1	Y	23	TRP	C-N	6.34	1.41	1.34
1	e	144	MET	CA-C	6.34	1.61	1.52
1	e	124	ILE	N-CA	-6.34	1.41	1.46
1	c	6	LEU	C-N	6.34	1.42	1.33
1	i	48	THR	CA-C	6.34	1.60	1.52
1	O	104	ILE	CA-C	6.33	1.61	1.52
1	P	230	VAL	CA-CB	-6.33	1.46	1.54
1	k	112	GLN	CA-C	6.33	1.61	1.52
1	e	11	VAL	CA-C	6.33	1.60	1.52
1	j	154	ARG	CA-C	6.33	1.60	1.52
1	b	181	VAL	CA-C	6.33	1.60	1.52
1	h	97	ARG	CA-C	6.33	1.61	1.53
1	F	24	VAL	CA-C	6.32	1.60	1.52
1	N	193	ASN	N-CA	-6.32	1.38	1.46
1	N	37	ILE	CA-CB	-6.32	1.49	1.53
1	S	132	ARG	CA-C	-6.32	1.44	1.52
1	M	86	VAL	C-O	-6.31	1.17	1.24
1	Z	140	LYS	CA-C	6.31	1.61	1.52
1	f	143	ARG	CD-NE	6.31	1.55	1.46
1	T	97	ARG	CA-C	6.31	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	229	ARG	NE-CZ	6.31	1.40	1.33
1	U	181	VAL	CA-CB	6.31	1.62	1.54
1	j	171	THR	CA-CB	-6.31	1.43	1.53
1	P	187	GLU	N-CA	6.30	1.54	1.46
1	6	155	GLN	N-CA	6.30	1.53	1.46
1	G	44	SER	CA-C	-6.30	1.44	1.52
1	c	135	ILE	C-N	6.30	1.42	1.33
1	h	55	MET	CA-CB	6.30	1.63	1.53
1	F	221	VAL	C-N	6.30	1.41	1.33
1	O	167	ARG	CA-C	6.30	1.60	1.52
1	R	171	THR	CA-C	-6.30	1.44	1.52
1	k	192	GLN	C-N	6.30	1.42	1.33
1	h	182	LYS	CA-C	6.29	1.61	1.52
1	K	87	HIS	ND1-CE1	6.29	1.38	1.32
1	V	15	ILE	CA-CB	-6.29	1.47	1.54
1	6	206	GLY	C-N	-6.29	1.28	1.33
1	h	4	GLN	CA-CB	6.29	1.64	1.53
1	h	162	ARG	CA-CB	6.29	1.64	1.53
1	i	162	ARG	CD-NE	6.29	1.55	1.46
1	D	45	GLU	CA-CB	6.29	1.64	1.53
1	F	74	ASN	CA-CB	6.29	1.63	1.53
1	N	143	ARG	CA-C	-6.29	1.45	1.52
1	e	178	SER	CA-C	6.29	1.61	1.52
1	T	173	ARG	C-N	6.29	1.42	1.33
1	l	140	LYS	C-N	6.29	1.41	1.33
1	X	116	GLY	CA-C	6.29	1.59	1.51
1	k	87	HIS	ND1-CE1	6.29	1.38	1.32
1	V	129	ILE	C-N	6.28	1.42	1.33
1	h	90	PRO	C-N	-6.28	1.26	1.33
1	Z	30	LYS	CA-C	6.28	1.61	1.52
1	T	73	ILE	C-O	6.28	1.31	1.24
1	e	202	LEU	CA-CB	6.28	1.63	1.53
1	f	132	ARG	CD-NE	6.28	1.55	1.46
1	e	9	GLN	C-N	6.27	1.41	1.33
1	L	119	THR	C-O	-6.27	1.15	1.24
1	V	65	ALA	CA-C	6.27	1.60	1.52
1	a	108	THR	N-CA	6.27	1.53	1.46
1	j	196	PRO	N-CA	-6.27	1.39	1.47
1	J	133	TRP	C-N	6.27	1.41	1.33
1	h	88	ALA	CA-C	-6.27	1.45	1.52
1	V	67	GLN	CA-CB	6.27	1.63	1.53
1	Q	1	PRO	N-CA	6.26	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	5	ASN	N-CA	6.26	1.53	1.45
1	Q	39	MET	CA-C	6.26	1.61	1.52
1	j	135	ILE	C-O	6.25	1.31	1.24
1	j	221	VAL	CA-CB	6.25	1.61	1.54
1	L	53	ASN	N-CA	6.25	1.54	1.46
1	P	132	ARG	N-CA	-6.25	1.38	1.46
1	e	101	GLY	CA-C	6.25	1.59	1.52
1	C	227	LYS	N-CA	-6.25	1.37	1.45
1	B	172	LEU	N-CA	6.25	1.53	1.46
1	6	184	TRP	NE1-CE2	6.25	1.44	1.37
1	V	12	HIS	ND1-CE1	6.25	1.38	1.32
1	X	131	LYS	N-CA	6.25	1.53	1.46
1	F	120	HIS	N-CA	-6.25	1.37	1.45
1	R	229	ARG	CD-NE	6.25	1.54	1.46
1	7	179	GLN	CA-C	-6.24	1.44	1.52
1	O	226	HIS	ND1-CE1	6.24	1.38	1.32
1	Y	137	GLY	C-N	6.24	1.42	1.33
1	T	157	PRO	N-CA	6.24	1.55	1.47
1	b	109	SER	CA-C	6.24	1.60	1.52
1	i	71	GLU	N-CA	-6.24	1.38	1.46
1	K	159	GLU	CA-C	6.24	1.60	1.52
1	a	10	MET	C-N	6.24	1.42	1.34
1	J	106	GLY	CA-C	-6.23	1.42	1.51
1	D	85	PRO	CA-CB	-6.23	1.45	1.53
1	f	16	SER	CA-C	6.23	1.60	1.52
1	B	15	ILE	C-N	6.23	1.43	1.33
1	I	42	ALA	CA-C	6.23	1.60	1.52
1	5	190	LEU	CB-CG	6.23	1.66	1.53
1	K	72	THR	CA-C	-6.23	1.44	1.52
1	B	179	GLN	N-CA	6.22	1.53	1.46
1	H	133	TRP	CZ2-CH2	6.22	1.49	1.37
1	a	203	LYS	C-N	-6.22	1.25	1.33
1	6	178	SER	C-N	6.22	1.41	1.33
1	d	120	HIS	CA-CB	6.22	1.63	1.53
1	f	67	GLN	CA-CB	6.22	1.63	1.53
1	O	154	ARG	NE-CZ	6.22	1.39	1.33
1	T	12	HIS	CD2-NE2	6.22	1.44	1.37
1	j	75	GLU	CA-C	6.22	1.60	1.52
1	l	108	THR	N-CA	6.22	1.53	1.46
1	L	95	GLN	CA-CB	6.22	1.61	1.53
1	K	156	GLY	N-CA	6.22	1.53	1.44
1	K	191	VAL	C-N	6.22	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	163	ASP	CA-CB	6.22	1.62	1.53
1	T	184	TRP	CA-C	6.21	1.60	1.52
1	X	159	GLU	CA-CB	6.21	1.62	1.53
1	Z	47	ALA	CA-C	-6.21	1.45	1.52
1	l	169	TYR	C-N	6.21	1.42	1.33
1	Q	167	ARG	N-CA	-6.21	1.39	1.46
1	J	229	ARG	NE-CZ	6.21	1.39	1.33
1	i	73	ILE	C-N	6.21	1.42	1.34
1	L	26	VAL	CA-CB	-6.21	1.46	1.54
1	C	54	THR	CA-C	6.21	1.60	1.52
1	k	123	PRO	CA-C	-6.21	1.44	1.52
1	j	114	GLN	CA-CB	6.20	1.63	1.53
1	g	159	GLU	CA-C	6.20	1.61	1.52
1	h	195	ASN	CA-C	6.20	1.60	1.53
1	X	200	THR	C-N	6.20	1.41	1.33
1	Q	98	GLU	CA-C	6.20	1.59	1.53
1	a	159	GLU	CA-C	6.20	1.59	1.52
1	I	195	ASN	CA-CB	6.19	1.63	1.53
1	L	141	ILE	C-N	6.19	1.41	1.33
1	M	39	MET	C-O	-6.19	1.16	1.24
1	F	72	THR	N-CA	6.19	1.53	1.46
1	N	192	GLN	CA-C	6.19	1.61	1.52
1	S	110	THR	CA-C	-6.19	1.44	1.53
1	b	52	LEU	CA-C	-6.19	1.45	1.52
1	J	208	ALA	N-CA	6.19	1.53	1.46
1	B	226	HIS	CD2-NE2	6.19	1.44	1.37
1	H	85	PRO	C-N	6.19	1.41	1.33
1	S	97	ARG	NE-CZ	6.19	1.39	1.33
1	X	52	LEU	CA-C	-6.19	1.44	1.52
1	m	183	ASN	C-N	6.19	1.41	1.33
1	J	139	ASN	N-CA	6.19	1.54	1.46
1	A	67	GLN	N-CA	-6.18	1.39	1.46
1	O	114	GLN	C-N	6.18	1.41	1.33
1	A	206	GLY	N-CA	6.18	1.53	1.44
1	C	206	GLY	N-CA	6.18	1.53	1.44
1	Y	205	LEU	CB-CG	6.18	1.65	1.53
1	e	120	HIS	CD2-NE2	6.18	1.44	1.37
1	B	184	TRP	N-CA	-6.18	1.38	1.46
1	Y	111	LEU	C-N	6.18	1.42	1.33
1	A	85	PRO	CA-C	6.18	1.59	1.52
1	Y	87	HIS	CB-CG	-6.18	1.41	1.50
1	W	134	ILE	C-N	6.17	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	120	HIS	C-N	6.17	1.41	1.33
1	i	226	HIS	C-N	6.17	1.42	1.33
1	k	52	LEU	CA-C	6.17	1.60	1.52
1	l	118	MET	CA-C	-6.17	1.44	1.52
1	l	220	GLY	N-CA	6.17	1.53	1.45
1	I	12	HIS	N-CA	6.17	1.53	1.45
1	E	230	VAL	CA-CB	-6.17	1.48	1.54
1	J	12	HIS	CA-C	6.17	1.60	1.52
1	J	102	SER	CA-C	6.17	1.61	1.52
1	O	216	THR	N-CA	6.17	1.53	1.46
1	R	161	PHE	CA-C	6.17	1.60	1.52
1	W	44	SER	CA-CB	6.17	1.62	1.53
1	g	101	GLY	C-N	6.17	1.42	1.34
1	l	229	ARG	NE-CZ	6.16	1.39	1.33
1	M	89	GLY	N-CA	6.16	1.53	1.44
1	M	202	LEU	C-N	6.16	1.42	1.34
1	Q	65	ALA	CA-C	6.16	1.61	1.52
1	Y	158	LYS	N-CA	-6.16	1.38	1.46
1	l	103	ASP	CA-CB	6.16	1.62	1.53
1	D	207	PRO	N-CA	-6.16	1.41	1.47
1	U	59	VAL	CA-C	-6.16	1.46	1.52
1	T	187	GLU	C-N	6.16	1.42	1.33
1	d	142	VAL	C-N	6.16	1.42	1.34
1	F	69	LEU	C-N	6.15	1.41	1.33
1	6	128	GLU	C-O	-6.15	1.16	1.24
1	a	40	PHE	N-CA	6.15	1.53	1.46
1	b	32	PHE	C-N	6.15	1.39	1.33
1	e	66	MET	CA-C	6.15	1.61	1.52
1	a	188	THR	CA-C	-6.15	1.45	1.53
1	k	229	ARG	C-O	-6.15	1.17	1.24
1	B	196	PRO	N-CA	-6.15	1.39	1.47
1	L	110	THR	N-CA	-6.15	1.38	1.46
1	G	229	ARG	CA-C	-6.14	1.45	1.52
1	5	214	MET	C-O	-6.14	1.17	1.24
1	N	88	ALA	CA-C	6.14	1.60	1.52
1	6	30	LYS	C-O	-6.14	1.18	1.24
1	d	209	ALA	C-N	6.14	1.42	1.33
1	E	80	TRP	C-N	6.14	1.42	1.33
1	R	75	GLU	CA-CB	6.14	1.62	1.53
1	i	58	THR	C-N	6.14	1.41	1.33
1	J	155	GLN	CA-C	6.14	1.61	1.52
1	j	177	ALA	CA-C	6.14	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	136	LEU	CA-C	-6.14	1.44	1.52
1	N	156	GLY	C-N	-6.13	1.26	1.33
1	Q	230	VAL	CA-C	6.13	1.59	1.52
1	e	218	CYS	CA-CB	6.13	1.63	1.53
1	V	6	LEU	N-CA	-6.13	1.39	1.46
1	6	142	VAL	CA-CB	-6.13	1.46	1.54
1	d	100	ARG	CA-C	6.13	1.61	1.53
1	F	135	ILE	N-CA	-6.13	1.39	1.46
1	5	148	THR	CA-C	-6.13	1.44	1.52
1	h	175	GLU	N-CA	6.13	1.53	1.46
1	J	153	ILE	CA-CB	-6.13	1.47	1.54
1	O	45	GLU	N-CA	6.13	1.54	1.46
1	N	119	THR	C-N	6.12	1.41	1.33
1	V	152	ASP	C-N	6.12	1.42	1.33
1	a	127	GLY	CA-C	-6.12	1.45	1.52
1	I	49	PRO	N-CD	-6.12	1.39	1.47
1	L	29	GLU	C-O	-6.12	1.16	1.24
1	j	226	HIS	ND1-CE1	6.12	1.38	1.32
1	E	180	GLU	C-N	6.12	1.41	1.33
1	M	161	PHE	C-O	-6.12	1.17	1.24
1	S	225	GLY	C-N	6.12	1.43	1.33
1	k	226	HIS	CG-ND1	-6.12	1.31	1.38
1	k	79	GLU	CA-C	-6.12	1.45	1.52
1	g	205	LEU	CA-C	6.12	1.60	1.52
1	D	24	VAL	CA-CB	-6.12	1.46	1.54
1	K	102	SER	CA-CB	6.12	1.62	1.53
1	T	104	ILE	C-N	6.12	1.42	1.33
1	V	56	LEU	C-N	6.12	1.42	1.33
1	f	51	ASP	CA-CB	6.12	1.63	1.53
1	G	128	GLU	N-CA	-6.11	1.38	1.46
1	U	224	PRO	CA-C	6.11	1.59	1.52
1	Z	176	GLN	N-CA	-6.11	1.38	1.46
1	I	197	ASP	CA-C	6.11	1.60	1.52
1	K	176	GLN	CA-C	-6.11	1.44	1.52
1	B	215	MET	C-O	-6.11	1.17	1.24
1	U	123	PRO	CA-C	6.11	1.59	1.52
1	C	16	SER	CA-C	-6.11	1.46	1.53
1	B	93	PRO	CA-C	6.11	1.60	1.52
1	Q	128	GLU	CA-C	-6.11	1.45	1.52
1	T	141	ILE	C-N	6.11	1.41	1.33
1	S	97	ARG	CA-C	-6.10	1.44	1.53
1	i	123	PRO	C-N	6.10	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	57	ASN	CA-C	-6.10	1.44	1.52
1	G	120	HIS	N-CA	6.10	1.54	1.45
1	J	182	LYS	CA-CB	6.10	1.62	1.53
1	i	68	MET	C-O	6.10	1.31	1.24
1	l	154	ARG	C-O	-6.10	1.17	1.23
1	S	199	LYS	CA-C	-6.09	1.44	1.52
1	h	213	GLU	CA-CB	6.09	1.63	1.53
1	B	57	ASN	C-N	6.09	1.42	1.33
1	F	45	GLU	C-O	-6.09	1.17	1.24
1	I	14	ALA	N-CA	-6.09	1.38	1.46
1	f	140	LYS	CA-CB	6.09	1.62	1.53
1	A	16	SER	CA-C	-6.09	1.45	1.53
1	H	206	GLY	N-CA	6.09	1.53	1.44
1	P	57	ASN	N-CA	-6.09	1.38	1.46
1	h	93	PRO	CA-C	6.09	1.61	1.52
1	A	90	PRO	N-CD	-6.09	1.39	1.47
1	L	203	LYS	CA-C	6.09	1.61	1.52
1	N	51	ASP	CA-C	6.09	1.60	1.52
1	d	126	VAL	CA-CB	-6.09	1.47	1.54
1	h	40	PHE	N-CA	-6.09	1.39	1.46
1	B	84	HIS	CE1-NE2	-6.08	1.26	1.32
1	I	145	TYR	CA-CB	6.08	1.61	1.53
1	P	183	ASN	C-N	6.08	1.42	1.34
1	d	62	HIS	CG-ND1	-6.08	1.31	1.38
1	e	218	CYS	CA-C	6.08	1.60	1.52
1	5	180	GLU	N-CA	6.08	1.53	1.46
1	K	25	LYS	CA-C	6.08	1.60	1.52
1	T	50	GLN	C-N	6.08	1.42	1.33
1	B	12	HIS	ND1-CE1	6.08	1.38	1.32
1	N	191	VAL	N-CA	-6.08	1.38	1.46
1	W	76	GLU	CA-CB	6.08	1.63	1.53
1	f	198	CYS	CA-CB	6.08	1.63	1.53
1	j	163	ASP	CA-C	-6.07	1.45	1.52
1	j	192	GLN	CA-C	-6.07	1.45	1.52
1	U	119	THR	C-N	6.07	1.42	1.33
1	Z	25	LYS	CA-CB	6.07	1.62	1.53
1	T	173	ARG	CD-NE	6.07	1.54	1.46
1	d	149	SER	N-CA	-6.07	1.38	1.46
1	I	146	SER	CA-C	-6.07	1.45	1.52
1	L	31	ALA	CA-CB	6.07	1.63	1.53
1	Z	142	VAL	CA-CB	-6.07	1.46	1.54
1	M	148	THR	CA-C	-6.07	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	135	ILE	CA-C	6.07	1.60	1.52
1	O	91	ILE	CA-CB	6.06	1.64	1.55
1	k	173	ARG	CD-NE	6.06	1.54	1.46
1	C	36	VAL	CA-CB	-6.06	1.46	1.54
1	j	82	ARG	CA-CB	6.06	1.63	1.53
1	P	147	PRO	N-CA	-6.06	1.39	1.47
1	M	143	ARG	CA-CB	6.06	1.62	1.53
1	O	115	ILE	CA-C	6.06	1.60	1.52
1	U	92	GLU	CA-CB	6.06	1.62	1.53
1	7	226	HIS	ND1-CE1	6.06	1.38	1.32
1	T	226	HIS	CD2-NE2	6.06	1.44	1.37
1	E	157	PRO	N-CD	6.05	1.56	1.47
1	a	114	GLN	N-CA	-6.05	1.39	1.46
1	m	224	PRO	C-N	6.05	1.42	1.33
1	C	154	ARG	CA-C	6.05	1.59	1.52
1	U	109	SER	CA-C	-6.05	1.44	1.53
1	b	54	THR	CA-C	6.05	1.60	1.52
1	m	89	GLY	N-CA	6.05	1.52	1.44
1	6	190	LEU	CA-CB	6.05	1.62	1.53
1	h	84	HIS	C-N	6.05	1.41	1.33
1	Y	143	ARG	CD-NE	6.05	1.54	1.46
1	T	100	ARG	N-CA	-6.04	1.38	1.45
1	W	34	PRO	N-CD	-6.04	1.39	1.47
1	Z	127	GLY	C-N	6.04	1.42	1.33
1	g	68	MET	N-CA	6.04	1.53	1.46
1	E	4	GLN	C-O	-6.04	1.16	1.23
1	i	184	TRP	CA-C	-6.04	1.45	1.52
1	c	15	ILE	CA-C	6.04	1.60	1.52
1	I	229	ARG	N-CA	-6.04	1.38	1.46
1	M	33	SER	C-N	-6.03	1.25	1.33
1	H	128	GLU	CA-C	-6.03	1.45	1.52
1	X	171	THR	C-N	6.03	1.42	1.33
1	a	53	ASN	CA-CB	6.03	1.62	1.53
1	E	123	PRO	CA-C	-6.03	1.46	1.52
1	k	123	PRO	N-CA	6.03	1.53	1.46
1	R	153	ILE	CA-CB	-6.03	1.47	1.54
1	C	20	LEU	N-CA	-6.03	1.39	1.46
1	V	173	ARG	CD-NE	6.03	1.54	1.46
1	l	123	PRO	C-N	6.03	1.40	1.33
1	W	119	THR	N-CA	-6.02	1.38	1.46
1	O	134	ILE	CA-C	-6.02	1.45	1.52
1	a	18	ARG	CD-NE	6.02	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	25	LYS	C-N	6.02	1.41	1.33
1	c	157	PRO	CA-C	-6.02	1.44	1.52
1	L	84	HIS	ND1-CE1	6.02	1.38	1.32
1	L	141	ILE	CA-CB	-6.02	1.47	1.54
1	O	2	ILE	CA-CB	-6.02	1.46	1.54
1	c	165	VAL	CA-C	6.02	1.60	1.52
1	A	75	GLU	CA-C	6.01	1.60	1.52
1	Z	12	HIS	CG-CD2	6.01	1.42	1.35
1	a	87	HIS	CA-C	-6.01	1.45	1.53
1	b	36	VAL	CA-CB	-6.01	1.47	1.54
1	V	217	ALA	C-N	6.00	1.42	1.33
1	5	12	HIS	CD2-NE2	6.00	1.44	1.37
1	b	44	SER	C-N	6.00	1.42	1.33
1	7	150	ILE	CA-C	-6.00	1.44	1.52
1	G	62	HIS	CE1-NE2	6.00	1.38	1.32
1	W	53	ASN	C-O	-6.00	1.17	1.24
1	i	131	LYS	CA-CB	6.00	1.62	1.53
1	J	28	GLU	N-CA	6.00	1.53	1.46
1	N	203	LYS	N-CA	-6.00	1.39	1.46
1	S	115	ILE	CB-CG1	6.00	1.65	1.53
1	C	154	ARG	N-CA	6.00	1.53	1.46
1	G	84	HIS	CA-CB	6.00	1.61	1.53
1	J	96	MET	CA-CB	6.00	1.63	1.53
1	N	87	HIS	ND1-CE1	6.00	1.38	1.32
1	6	37	ILE	CA-CB	-6.00	1.51	1.54
1	A	62	HIS	C-N	6.00	1.41	1.33
1	N	183	ASN	N-CA	-6.00	1.38	1.46
1	S	169	TYR	C-N	6.00	1.41	1.33
1	k	102	SER	N-CA	-5.99	1.38	1.46
1	m	112	GLN	CA-C	-5.99	1.44	1.52
1	k	97	ARG	NE-CZ	5.99	1.39	1.33
1	P	61	GLY	C-N	5.99	1.41	1.33
1	h	115	ILE	C-N	5.99	1.42	1.33
1	G	45	GLU	C-N	5.99	1.42	1.33
1	m	132	ARG	C-N	-5.99	1.26	1.33
1	F	25	LYS	C-N	5.99	1.41	1.33
1	I	135	ILE	CA-CB	-5.98	1.47	1.54
1	L	48	THR	CA-C	-5.98	1.45	1.52
1	O	186	THR	CA-C	-5.98	1.45	1.52
1	R	24	VAL	CA-C	5.98	1.60	1.52
1	5	98	GLU	CA-CB	5.98	1.63	1.53
1	B	54	THR	C-N	5.98	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	205	LEU	C-N	5.98	1.42	1.33
1	T	44	SER	CA-C	-5.98	1.44	1.52
1	L	2	ILE	N-CA	-5.98	1.39	1.46
1	X	97	ARG	NE-CZ	5.98	1.39	1.33
1	d	76	GLU	CA-C	5.98	1.60	1.52
1	I	104	ILE	N-CA	-5.98	1.39	1.46
1	K	24	VAL	CA-CB	-5.98	1.47	1.54
1	S	72	THR	C-N	5.98	1.41	1.33
1	V	35	GLU	CA-CB	5.98	1.62	1.53
1	m	202	LEU	C-O	-5.98	1.17	1.24
1	N	120	HIS	CG-CD2	5.97	1.42	1.35
1	l	15	ILE	CA-C	-5.97	1.44	1.52
1	T	149	SER	N-CA	5.97	1.53	1.46
1	c	163	ASP	CA-CB	5.97	1.63	1.53
1	m	218	CYS	CA-C	-5.97	1.45	1.53
1	C	17	PRO	C-N	5.97	1.42	1.34
1	J	226	HIS	CG-CD2	5.97	1.42	1.35
1	5	87	HIS	ND1-CE1	5.97	1.38	1.32
1	c	79	GLU	N-CA	-5.97	1.39	1.46
1	6	39	MET	C-N	5.97	1.42	1.34
1	e	74	ASN	CA-C	5.97	1.61	1.52
1	Q	53	ASN	C-N	5.97	1.41	1.33
1	Q	157	PRO	CA-CB	5.97	1.62	1.53
1	a	65	ALA	N-CA	-5.97	1.39	1.46
1	k	145	TYR	N-CA	-5.96	1.38	1.46
1	k	67	GLN	N-CA	5.96	1.53	1.46
1	G	159	GLU	N-CA	-5.96	1.36	1.46
1	K	193	ASN	CA-C	5.96	1.61	1.52
1	U	154	ARG	CD-NE	5.96	1.54	1.46
1	Z	109	SER	CA-CB	5.96	1.64	1.53
1	m	174	ALA	CA-C	5.96	1.60	1.52
1	E	97	ARG	CA-CB	5.95	1.63	1.53
1	b	84	HIS	CA-CB	5.95	1.60	1.53
1	b	105	ALA	C-N	5.95	1.41	1.33
1	h	182	LYS	C-N	5.95	1.41	1.33
1	F	11	VAL	N-CA	-5.95	1.39	1.46
1	Q	154	ARG	CA-C	-5.95	1.45	1.52
1	5	181	VAL	C-O	-5.95	1.17	1.24
1	V	83	LEU	C-O	5.95	1.31	1.24
1	i	12	HIS	CA-CB	5.95	1.64	1.53
1	C	86	VAL	C-N	5.95	1.41	1.33
1	F	150	ILE	N-CA	5.95	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	86	VAL	C-O	-5.95	1.17	1.24
1	Z	161	PHE	N-CA	5.95	1.53	1.46
1	j	76	GLU	CA-CB	5.95	1.63	1.53
1	b	10	MET	C-N	-5.94	1.27	1.33
1	k	124	ILE	C-O	-5.94	1.17	1.23
1	F	53	ASN	CA-C	5.94	1.60	1.52
1	I	177	ALA	CA-C	-5.94	1.45	1.52
1	O	142	VAL	C-N	5.94	1.41	1.33
1	b	229	ARG	CA-CB	5.94	1.62	1.53
1	g	108	THR	C-N	5.94	1.41	1.33
1	M	11	VAL	CA-C	-5.94	1.45	1.52
1	Q	161	PHE	CA-C	5.94	1.60	1.52
1	U	164	TYR	CA-CB	5.94	1.62	1.53
1	5	37	ILE	CA-CB	5.94	1.57	1.54
1	c	32	PHE	CA-CB	5.94	1.63	1.53
1	6	205	LEU	N-CA	-5.94	1.39	1.46
1	C	73	ILE	C-N	5.93	1.41	1.33
1	W	120	HIS	CE1-NE2	5.93	1.38	1.32
1	j	89	GLY	CA-C	5.93	1.60	1.51
1	d	142	VAL	CA-C	5.93	1.60	1.52
1	O	20	LEU	CA-C	5.93	1.60	1.52
1	k	108	THR	N-CA	5.93	1.53	1.46
1	f	159	GLU	CA-CB	5.93	1.64	1.53
1	b	2	ILE	CA-CB	-5.93	1.47	1.54
1	L	83	LEU	C-O	5.93	1.31	1.24
1	N	150	ILE	CB-CG1	5.93	1.65	1.53
1	Q	20	LEU	C-O	-5.93	1.17	1.24
1	S	96	MET	CG-SD	5.93	1.95	1.80
1	U	206	GLY	C-N	5.93	1.41	1.33
1	F	53	ASN	C-N	5.93	1.41	1.33
1	W	12	HIS	CB-CG	5.93	1.58	1.50
1	a	70	LYS	CA-C	5.93	1.60	1.52
1	O	123	PRO	C-N	5.92	1.38	1.33
1	V	33	SER	CA-CB	5.92	1.62	1.53
1	g	208	ALA	C-N	5.92	1.41	1.33
1	D	104	ILE	CA-CB	-5.92	1.47	1.54
1	R	120	HIS	CE1-NE2	5.92	1.38	1.32
1	f	46	GLY	CA-C	-5.92	1.44	1.51
1	B	168	PHE	N-CA	-5.92	1.39	1.46
1	i	214	MET	CA-C	-5.92	1.45	1.52
1	G	111	LEU	N-CA	-5.92	1.39	1.46
1	O	156	GLY	N-CA	5.91	1.52	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	114	GLN	CA-C	5.91	1.60	1.52
1	h	14	ALA	CA-C	-5.91	1.45	1.52
1	6	229	ARG	C-O	-5.91	1.17	1.23
1	K	113	GLU	C-O	-5.91	1.17	1.24
1	5	72	THR	N-CA	5.91	1.53	1.46
1	g	69	LEU	CA-C	5.91	1.60	1.52
1	K	219	GLN	CA-CB	5.91	1.62	1.53
1	Q	218	CYS	CA-C	-5.91	1.45	1.53
1	Z	2	ILE	CA-CB	-5.90	1.47	1.54
1	f	90	PRO	CA-C	-5.90	1.44	1.52
1	M	120	HIS	ND1-CE1	5.90	1.38	1.32
1	U	160	PRO	N-CA	5.90	1.53	1.46
1	V	71	GLU	N-CA	-5.90	1.39	1.46
1	X	98	GLU	C-N	5.90	1.41	1.33
1	A	116	GLY	C-O	5.90	1.30	1.23
1	M	122	PRO	N-CD	-5.90	1.39	1.47
1	Y	127	GLY	CA-C	5.90	1.58	1.52
1	d	107	THR	CA-CB	-5.90	1.44	1.53
1	E	124	ILE	CA-CB	-5.90	1.48	1.53
1	Z	72	THR	CB-OG1	-5.90	1.34	1.43
1	B	193	ASN	C-N	5.90	1.41	1.33
1	I	221	VAL	CA-CB	-5.90	1.46	1.54
1	X	224	PRO	CA-C	5.90	1.59	1.52
1	C	203	LYS	CA-C	5.89	1.60	1.52
1	T	63	GLN	C-N	5.89	1.42	1.33
1	f	100	ARG	CD-NE	5.89	1.54	1.46
1	c	12	HIS	CD2-NE2	5.89	1.44	1.37
1	I	167	ARG	CZ-NH2	-5.89	1.25	1.33
1	K	137	GLY	CA-C	5.89	1.58	1.52
1	P	121	ASN	CA-C	-5.89	1.47	1.52
1	P	204	ALA	C-N	5.89	1.41	1.33
1	i	219	GLN	C-N	5.88	1.42	1.33
1	h	75	GLU	C-O	-5.88	1.16	1.24
1	C	26	VAL	CA-C	-5.88	1.45	1.52
1	O	54	THR	N-CA	5.88	1.53	1.46
1	6	77	ALA	N-CA	-5.88	1.39	1.46
1	j	45	GLU	CA-C	5.88	1.60	1.52
1	7	175	GLU	CA-CB	5.88	1.61	1.53
1	T	166	ASP	C-N	5.88	1.42	1.34
1	D	197	ASP	CA-CB	5.88	1.62	1.53
1	J	147	PRO	N-CA	-5.88	1.43	1.47
1	j	99	PRO	CA-CB	5.88	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	40	PHE	C-N	5.88	1.42	1.33
1	P	91	ILE	CA-CB	5.88	1.61	1.54
1	R	195	ASN	CA-C	-5.87	1.46	1.53
1	G	155	GLN	CA-C	-5.87	1.45	1.52
1	m	12	HIS	CE1-NE2	5.87	1.38	1.32
1	m	162	ARG	NE-CZ	5.87	1.39	1.33
1	b	132	ARG	CA-CB	5.87	1.62	1.53
1	E	224	PRO	CA-CB	-5.87	1.44	1.53
1	X	111	LEU	CB-CG	5.87	1.65	1.53
1	d	90	PRO	CA-CB	5.87	1.61	1.53
1	I	182	LYS	CA-CB	5.86	1.62	1.53
1	Z	1	PRO	N-CA	5.86	1.55	1.47
1	Z	209	ALA	CA-C	5.86	1.60	1.53
1	i	80	TRP	CD2-CE3	-5.86	1.30	1.40
1	k	161	PHE	CA-C	5.86	1.60	1.52
1	O	99	PRO	N-CA	5.86	1.53	1.46
1	O	154	ARG	CD-NE	5.86	1.54	1.46
1	G	198	CYS	N-CA	5.86	1.53	1.46
1	e	69	LEU	N-CA	-5.86	1.39	1.46
1	K	68	MET	CA-CB	5.86	1.62	1.53
1	X	205	LEU	CA-CB	5.86	1.62	1.53
1	6	30	LYS	N-CA	-5.86	1.39	1.46
1	C	80	TRP	N-CA	5.85	1.53	1.46
1	N	222	GLY	C-N	5.85	1.42	1.33
1	B	132	ARG	C-N	5.85	1.41	1.33
1	E	75	GLU	CA-CB	5.85	1.62	1.53
1	6	92	GLU	CA-C	5.85	1.58	1.52
1	7	65	ALA	C-N	5.85	1.42	1.33
1	I	72	THR	CA-C	-5.85	1.44	1.52
1	K	2	ILE	CA-C	5.85	1.59	1.52
1	d	157	PRO	N-CA	5.85	1.53	1.47
1	Z	9	GLN	CA-C	-5.85	1.47	1.53
1	l	226	HIS	ND1-CE1	5.85	1.38	1.32
1	e	32	PHE	CA-CB	5.85	1.62	1.53
1	W	138	LEU	CA-CB	5.85	1.62	1.53
1	V	98	GLU	CA-C	5.84	1.59	1.52
1	F	62	HIS	C-N	5.84	1.42	1.33
1	W	36	VAL	CA-CB	-5.84	1.47	1.54
1	K	29	GLU	CA-C	5.84	1.60	1.52
1	Y	103	ASP	C-N	5.84	1.41	1.33
1	m	211	LEU	CA-C	-5.84	1.44	1.52
1	7	188	THR	N-CA	-5.84	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	34	PRO	CA-CB	5.84	1.62	1.53
1	l	144	MET	CG-SD	-5.84	1.66	1.80
1	G	43	LEU	N-CA	5.84	1.53	1.46
1	L	9	GLN	CA-C	-5.84	1.45	1.52
1	Z	165	VAL	CA-C	-5.84	1.44	1.52
1	d	132	ARG	CA-C	5.84	1.60	1.52
1	B	75	GLU	C-N	5.84	1.42	1.33
1	T	45	GLU	N-CA	5.84	1.53	1.46
1	5	43	LEU	C-O	-5.84	1.16	1.24
1	i	221	VAL	C-N	5.84	1.42	1.33
1	d	145	TYR	N-CA	5.84	1.53	1.46
1	d	161	PHE	C-O	-5.83	1.17	1.24
1	e	91	ILE	CA-CB	-5.83	1.47	1.54
1	T	70	LYS	N-CA	-5.83	1.39	1.46
1	J	133	TRP	CA-C	5.83	1.60	1.52
1	M	13	GLN	C-N	5.83	1.41	1.33
1	l	73	ILE	CB-CG1	5.83	1.65	1.53
1	I	20	LEU	CA-CB	5.83	1.62	1.53
1	K	40	PHE	CA-CB	5.83	1.62	1.53
1	m	77	ALA	CA-CB	5.83	1.62	1.53
1	O	198	CYS	C-O	-5.83	1.17	1.24
1	D	87	HIS	CG-CD2	-5.82	1.29	1.35
1	K	162	ARG	CA-C	5.82	1.60	1.52
1	N	20	LEU	N-CA	5.82	1.53	1.46
1	S	141	ILE	N-CA	5.82	1.53	1.46
1	j	156	GLY	N-CA	5.82	1.52	1.44
1	j	188	THR	CA-C	-5.82	1.45	1.52
1	l	167	ARG	CD-NE	5.82	1.54	1.46
1	J	44	SER	CA-CB	5.82	1.61	1.53
1	g	188	THR	CA-CB	-5.82	1.46	1.53
1	h	20	LEU	CA-C	-5.82	1.45	1.52
1	V	219	GLN	CA-C	5.82	1.60	1.52
1	j	127	GLY	CA-C	5.82	1.59	1.51
1	l	61	GLY	CA-C	-5.82	1.43	1.51
1	K	119	THR	CA-C	-5.82	1.44	1.52
1	Y	62	HIS	CG-ND1	5.82	1.44	1.38
1	k	29	GLU	CA-CB	5.82	1.62	1.53
1	E	226	HIS	CA-C	5.81	1.60	1.52
1	O	205	LEU	CA-C	5.81	1.60	1.52
1	R	49	PRO	C-N	5.81	1.41	1.33
1	j	208	ALA	N-CA	-5.81	1.38	1.46
1	d	2	ILE	N-CA	-5.81	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	37	ILE	CA-CB	-5.81	1.51	1.54
1	f	25	LYS	C-O	-5.81	1.17	1.24
1	Z	162	ARG	CD-NE	5.81	1.54	1.46
1	C	59	VAL	C-O	5.81	1.29	1.24
1	m	35	GLU	CA-C	-5.81	1.44	1.52
1	d	26	VAL	CA-CB	5.81	1.61	1.54
1	F	63	GLN	N-CA	-5.80	1.38	1.46
1	J	95	GLN	CA-C	-5.80	1.45	1.53
1	h	26	VAL	CA-C	-5.80	1.45	1.52
1	Z	93	PRO	N-CA	5.80	1.53	1.47
1	G	113	GLU	C-N	5.80	1.41	1.33
1	f	133	TRP	CA-CB	5.80	1.62	1.53
1	E	166	ASP	CA-CB	5.80	1.62	1.53
1	C	194	ALA	CA-C	5.79	1.60	1.52
1	K	181	VAL	CA-CB	5.79	1.61	1.54
1	L	14	ALA	C-N	5.79	1.41	1.33
1	W	108	THR	N-CA	5.79	1.53	1.46
1	H	229	ARG	C-N	5.79	1.40	1.34
1	C	173	ARG	CD-NE	5.79	1.54	1.46
1	P	14	ALA	C-N	5.79	1.40	1.33
1	5	224	PRO	C-O	-5.79	1.17	1.23
1	d	194	ALA	CA-C	-5.79	1.45	1.52
1	R	46	GLY	CA-C	5.79	1.59	1.51
1	Y	124	ILE	CA-C	5.79	1.59	1.52
1	a	218	CYS	CA-C	5.79	1.60	1.52
1	d	218	CYS	CA-CB	5.78	1.63	1.53
1	e	213	GLU	C-N	5.78	1.41	1.33
1	E	6	LEU	CA-CB	5.78	1.62	1.53
1	E	13	GLN	C-N	5.78	1.41	1.33
1	b	99	PRO	C-N	5.78	1.41	1.33
1	K	110	THR	N-CA	5.78	1.53	1.45
1	P	3	VAL	C-N	5.78	1.41	1.33
1	X	75	GLU	N-CA	5.78	1.53	1.46
1	j	16	SER	CA-CB	5.78	1.63	1.53
1	e	208	ALA	CA-C	5.78	1.61	1.52
1	g	128	GLU	CA-CB	5.78	1.62	1.53
1	L	99	PRO	C-N	5.78	1.41	1.33
1	a	103	ASP	C-O	-5.78	1.17	1.24
1	b	170	LYS	CA-C	5.78	1.60	1.52
1	I	33	SER	CA-C	-5.77	1.45	1.52
1	M	126	VAL	C-N	5.77	1.42	1.33
1	P	72	THR	CA-C	-5.77	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	18	ARG	CD-NE	5.77	1.54	1.46
1	Z	224	PRO	CA-CB	5.77	1.61	1.53
1	A	152	ASP	C-N	5.77	1.40	1.33
1	Z	87	HIS	ND1-CE1	5.77	1.38	1.32
1	b	73	ILE	N-CA	5.77	1.53	1.46
1	D	212	GLU	CA-C	5.77	1.60	1.52
1	G	40	PHE	CA-CB	5.77	1.62	1.53
1	Q	151	LEU	CA-CB	5.77	1.62	1.53
1	m	47	ALA	C-O	-5.77	1.17	1.24
1	I	156	GLY	N-CA	5.76	1.50	1.43
1	l	58	THR	N-CA	5.76	1.53	1.46
1	k	149	SER	N-CA	5.76	1.53	1.46
1	J	143	ARG	CA-C	5.76	1.60	1.52
1	W	192	GLN	CA-CB	5.76	1.62	1.53
1	F	9	GLN	N-CA	5.75	1.53	1.46
1	S	159	GLU	CA-C	5.75	1.59	1.52
1	T	6	LEU	CA-CB	5.75	1.61	1.53
1	V	31	ALA	CA-C	-5.75	1.45	1.52
1	5	32	PHE	CB-CG	5.75	1.63	1.50
1	m	87	HIS	CE1-NE2	5.75	1.38	1.32
1	g	110	THR	CA-C	-5.75	1.45	1.52
1	h	219	GLN	CA-CB	5.75	1.61	1.53
1	K	140	LYS	CA-CB	5.75	1.62	1.53
1	M	32	PHE	CA-CB	5.75	1.61	1.53
1	J	182	LYS	N-CA	5.75	1.53	1.46
1	6	185	MET	C-N	5.75	1.41	1.33
1	h	9	GLN	C-N	5.75	1.40	1.33
1	M	51	ASP	N-CA	-5.75	1.39	1.46
1	Q	53	ASN	CA-CB	5.75	1.62	1.53
1	f	151	LEU	C-N	5.75	1.41	1.33
1	W	111	LEU	N-CA	5.75	1.53	1.46
1	U	156	GLY	C-N	-5.74	1.27	1.34
1	l	123	PRO	CA-C	5.74	1.58	1.52
1	W	118	MET	CA-C	5.74	1.60	1.52
1	C	110	THR	C-N	5.74	1.41	1.33
1	E	131	LYS	N-CA	-5.74	1.39	1.46
1	L	99	PRO	CA-C	5.74	1.59	1.52
1	V	154	ARG	CD-NE	5.74	1.54	1.46
1	h	122	PRO	N-CD	5.74	1.55	1.47
1	B	26	VAL	N-CA	-5.74	1.39	1.46
1	M	116	GLY	C-N	-5.74	1.26	1.33
1	Q	188	THR	C-N	5.74	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	148	THR	C-N	5.74	1.40	1.33
1	T	199	LYS	CA-CB	5.74	1.62	1.53
1	I	173	ARG	C-O	-5.74	1.17	1.24
1	U	175	GLU	CA-CB	5.74	1.61	1.53
1	6	51	ASP	CA-C	-5.74	1.45	1.52
1	B	1	PRO	C-N	-5.74	1.26	1.33
1	C	74	ASN	N-CA	5.74	1.53	1.46
1	M	27	VAL	C-N	-5.74	1.26	1.33
1	W	54	THR	CA-C	-5.74	1.45	1.52
1	e	121	ASN	C-O	-5.73	1.17	1.24
1	l	62	HIS	CE1-NE2	5.73	1.38	1.32
1	e	189	LEU	CA-C	5.73	1.60	1.52
1	h	15	ILE	CA-C	5.73	1.58	1.52
1	j	173	ARG	CA-C	-5.73	1.45	1.52
1	D	3	VAL	C-N	5.73	1.41	1.33
1	V	54	THR	CA-C	5.73	1.60	1.52
1	l	4	GLN	CA-C	-5.73	1.46	1.52
1	K	49	PRO	CA-C	5.73	1.61	1.52
1	R	173	ARG	CD-NE	5.73	1.54	1.46
1	7	120	HIS	CD2-NE2	5.73	1.44	1.37
1	J	209	ALA	CA-C	5.72	1.60	1.52
1	R	127	GLY	CA-C	-5.72	1.43	1.51
1	Q	173	ARG	CD-NE	5.72	1.54	1.46
1	H	223	GLY	CA-C	-5.72	1.43	1.51
1	T	31	ALA	N-CA	5.72	1.53	1.46
1	Q	199	LYS	CA-C	-5.72	1.45	1.52
1	R	2	ILE	N-CA	5.72	1.52	1.46
1	H	162	ARG	CA-CB	5.71	1.63	1.53
1	R	177	ALA	C-N	5.71	1.41	1.33
1	X	19	THR	CA-C	-5.71	1.45	1.52
1	b	62	HIS	CA-CB	-5.71	1.45	1.53
1	j	105	ALA	C-N	5.71	1.42	1.33
1	A	166	ASP	CA-C	5.71	1.60	1.52
1	F	175	GLU	CA-CB	5.71	1.62	1.53
1	W	15	ILE	N-CA	5.71	1.52	1.46
1	j	167	ARG	C-O	-5.71	1.17	1.24
1	J	164	TYR	N-CA	-5.71	1.39	1.46
1	J	226	HIS	CE1-NE2	5.71	1.38	1.32
1	L	159	GLU	CA-C	-5.71	1.45	1.52
1	L	4	GLN	CA-C	-5.71	1.45	1.52
1	N	130	TYR	CA-CB	5.71	1.62	1.53
1	X	3	VAL	N-CA	5.71	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	34	PRO	CA-C	5.71	1.62	1.52
1	P	12	HIS	CG-CD2	5.71	1.42	1.35
1	X	90	PRO	CA-C	5.71	1.59	1.52
1	Y	125	PRO	C-N	5.71	1.41	1.33
1	5	29	GLU	C-N	5.71	1.42	1.33
1	b	9	GLN	CA-CB	5.71	1.61	1.53
1	h	97	ARG	NE-CZ	5.71	1.39	1.33
1	T	57	ASN	N-CA	-5.70	1.39	1.46
1	T	62	HIS	CG-ND1	5.70	1.44	1.38
1	a	64	ALA	C-N	5.70	1.41	1.33
1	S	223	GLY	C-O	-5.70	1.16	1.24
1	D	100	ARG	CA-C	-5.70	1.45	1.52
1	F	148	THR	C-N	5.70	1.41	1.33
1	L	189	LEU	C-N	5.70	1.40	1.33
1	N	77	ALA	N-CA	-5.70	1.39	1.46
1	j	145	TYR	CA-CB	5.70	1.60	1.52
1	m	169	TYR	CA-CB	-5.70	1.44	1.53
1	G	100	ARG	NE-CZ	5.70	1.39	1.33
1	j	62	HIS	CG-CD2	5.70	1.42	1.35
1	O	82	ARG	CA-C	-5.70	1.45	1.52
1	S	3	VAL	CA-CB	-5.70	1.47	1.53
1	k	151	LEU	C-N	5.70	1.41	1.33
1	I	189	LEU	N-CA	5.69	1.53	1.46
1	V	107	THR	CA-CB	5.69	1.62	1.53
1	d	79	GLU	N-CA	-5.69	1.39	1.46
1	C	40	PHE	C-O	5.69	1.31	1.24
1	6	82	ARG	CD-NE	5.69	1.54	1.46
1	m	226	HIS	CD2-NE2	5.69	1.44	1.37
1	e	84	HIS	CD2-NE2	5.69	1.44	1.37
1	S	110	THR	N-CA	5.69	1.53	1.45
1	V	154	ARG	NE-CZ	5.69	1.39	1.33
1	c	29	GLU	CA-C	-5.69	1.45	1.52
1	f	91	ILE	N-CA	5.69	1.53	1.46
1	D	82	ARG	C-O	-5.68	1.16	1.24
1	Z	109	SER	N-CA	5.68	1.52	1.46
1	D	217	ALA	CA-CB	5.68	1.62	1.53
1	T	223	GLY	C-N	5.68	1.40	1.33
1	a	169	TYR	C-O	-5.68	1.16	1.24
1	j	183	ASN	CA-C	5.68	1.60	1.52
1	k	78	ALA	N-CA	-5.68	1.39	1.46
1	T	123	PRO	C-N	5.68	1.39	1.33
1	5	224	PRO	N-CA	5.68	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	195	ASN	N-CA	-5.68	1.38	1.46
1	B	56	LEU	C-N	5.68	1.42	1.33
1	l	140	LYS	N-CA	5.68	1.53	1.46
1	h	164	TYR	CA-CB	5.68	1.63	1.53
1	O	80	TRP	CG-CD2	5.67	1.53	1.43
1	W	199	LYS	C-N	5.67	1.41	1.33
1	h	59	VAL	N-CA	-5.67	1.39	1.46
1	m	209	ALA	N-CA	5.67	1.53	1.46
1	f	158	LYS	CA-CB	5.67	1.61	1.53
1	J	67	GLN	CA-C	-5.67	1.45	1.52
1	K	50	GLN	CA-C	5.67	1.60	1.52
1	b	165	VAL	CA-CB	-5.67	1.47	1.54
1	e	71	GLU	C-O	-5.67	1.17	1.24
1	L	18	ARG	CD-NE	5.67	1.54	1.46
1	D	167	ARG	CD-NE	5.67	1.54	1.46
1	l	69	LEU	N-CA	5.67	1.53	1.46
1	I	215	MET	N-CA	-5.67	1.39	1.46
1	K	125	PRO	CA-C	5.67	1.59	1.53
1	W	22	ALA	C-N	5.67	1.41	1.33
1	H	97	ARG	CD-NE	5.67	1.54	1.46
1	S	135	ILE	C-N	5.67	1.41	1.33
1	c	117	TRP	CA-C	5.67	1.60	1.52
1	7	85	PRO	CA-CB	5.67	1.61	1.53
1	Z	19	THR	CA-C	5.66	1.60	1.52
1	b	160	PRO	N-CD	-5.66	1.39	1.47
1	d	17	PRO	CA-C	-5.66	1.44	1.52
1	g	79	GLU	CA-C	5.66	1.60	1.52
1	Q	98	GLU	N-CA	-5.66	1.37	1.45
1	B	62	HIS	CA-CB	5.66	1.61	1.53
1	C	168	PHE	N-CA	5.66	1.53	1.46
1	O	167	ARG	CA-CB	5.66	1.62	1.53
1	T	174	ALA	CA-C	5.66	1.60	1.52
1	7	35	GLU	CA-CB	5.66	1.62	1.53
1	D	109	SER	CA-C	5.66	1.60	1.52
1	d	103	ASP	C-N	5.66	1.40	1.33
1	M	100	ARG	CD-NE	5.66	1.54	1.46
1	Q	77	ALA	C-N	5.65	1.41	1.33
1	C	82	ARG	CD-NE	5.65	1.54	1.46
1	C	95	GLN	C-O	-5.65	1.16	1.24
1	D	102	SER	CA-C	-5.65	1.45	1.52
1	D	206	GLY	CA-C	5.65	1.59	1.51
1	E	177	ALA	N-CA	-5.65	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	182	LYS	CA-CB	5.65	1.62	1.53
1	k	149	SER	CA-CB	5.65	1.62	1.53
1	J	51	ASP	N-CA	5.65	1.53	1.46
1	L	32	PHE	CA-CB	5.65	1.61	1.53
1	l	229	ARG	CA-C	-5.65	1.45	1.52
1	E	30	LYS	CA-C	-5.65	1.45	1.52
1	E	90	PRO	N-CA	-5.65	1.40	1.47
1	b	152	ASP	N-CA	-5.65	1.39	1.46
1	a	213	GLU	CA-CB	5.65	1.62	1.53
1	V	139	ASN	N-CA	5.64	1.53	1.46
1	V	152	ASP	N-CA	-5.64	1.38	1.46
1	b	138	LEU	C-O	-5.64	1.17	1.24
1	l	134	ILE	C-N	5.64	1.40	1.33
1	H	40	PHE	N-CA	-5.64	1.39	1.46
1	X	153	ILE	C-O	-5.64	1.17	1.24
1	k	78	ALA	C-N	5.64	1.41	1.33
1	L	209	ALA	CA-C	5.64	1.59	1.52
1	M	219	GLN	C-N	5.64	1.41	1.33
1	F	41	SER	CA-CB	5.64	1.62	1.53
1	a	27	VAL	CA-CB	-5.64	1.46	1.54
1	k	111	LEU	CA-C	5.64	1.60	1.52
1	l	67	GLN	N-CA	-5.64	1.39	1.46
1	h	79	GLU	CA-C	5.64	1.60	1.52
1	A	97	ARG	N-CA	5.63	1.53	1.46
1	F	8	GLY	CA-C	5.63	1.59	1.51
1	J	1	PRO	N-CD	5.63	1.55	1.47
1	b	158	LYS	N-CA	5.63	1.51	1.46
1	m	88	ALA	N-CA	-5.63	1.38	1.46
1	7	161	PHE	CA-C	-5.63	1.45	1.52
1	f	66	MET	CA-CB	5.63	1.62	1.53
1	C	84	HIS	CA-C	5.63	1.59	1.52
1	H	29	GLU	CA-CB	5.63	1.62	1.53
1	F	154	ARG	C-N	5.63	1.41	1.33
1	H	110	THR	N-CA	5.63	1.52	1.45
1	Q	66	MET	CA-C	5.63	1.60	1.52
1	k	151	LEU	CA-CB	5.63	1.62	1.53
1	D	184	TRP	N-CA	5.63	1.52	1.46
1	J	218	CYS	N-CA	-5.63	1.40	1.46
1	5	214	MET	CA-C	5.63	1.59	1.52
1	a	176	GLN	CA-CB	-5.63	1.45	1.53
1	j	40	PHE	CA-CB	5.63	1.62	1.53
1	O	189	LEU	CA-C	5.62	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	85	PRO	N-CA	5.62	1.54	1.47
1	c	62	HIS	CE1-NE2	5.62	1.38	1.32
1	B	188	THR	CA-CB	-5.62	1.44	1.53
1	J	88	ALA	C-N	5.62	1.41	1.33
1	O	161	PHE	C-N	5.62	1.41	1.33
1	T	176	GLN	C-O	-5.62	1.16	1.24
1	Z	43	LEU	CA-C	5.62	1.60	1.52
1	C	87	HIS	CA-C	5.62	1.60	1.53
1	Z	7	GLN	CA-C	5.62	1.60	1.52
1	C	187	GLU	CA-C	5.62	1.60	1.52
1	m	102	SER	C-N	5.62	1.41	1.33
1	5	87	HIS	CG-CD2	5.62	1.42	1.35
1	Q	167	ARG	CA-C	5.62	1.59	1.52
1	V	22	ALA	C-O	-5.62	1.17	1.24
1	d	184	TRP	CA-C	5.62	1.59	1.52
1	c	68	MET	C-N	-5.61	1.26	1.33
1	e	83	LEU	CA-C	5.61	1.60	1.52
1	O	201	ILE	N-CA	-5.61	1.40	1.46
1	j	200	THR	CA-CB	5.61	1.62	1.53
1	d	32	PHE	CA-C	-5.61	1.47	1.53
1	k	155	GLN	CA-C	-5.61	1.45	1.52
1	F	107	THR	C-O	-5.61	1.17	1.24
1	H	49	PRO	C-N	5.61	1.41	1.33
1	S	97	ARG	CD-NE	5.61	1.54	1.46
1	c	130	TYR	CA-CB	5.61	1.62	1.53
1	6	62	HIS	CE1-NE2	5.61	1.38	1.32
1	G	66	MET	N-CA	-5.61	1.39	1.46
1	X	143	ARG	CA-C	5.61	1.60	1.52
1	G	132	ARG	CD-NE	5.60	1.54	1.46
1	F	113	GLU	CA-C	5.60	1.59	1.52
1	F	199	LYS	N-CA	-5.60	1.39	1.46
1	E	113	GLU	CA-CB	-5.60	1.44	1.53
1	I	118	MET	CA-CB	5.60	1.62	1.53
1	b	75	GLU	CA-CB	5.60	1.62	1.53
1	l	86	VAL	C-N	5.60	1.41	1.33
1	h	117	TRP	CD2-CE3	5.60	1.49	1.40
1	Q	226	HIS	CA-C	-5.60	1.45	1.52
1	R	169	TYR	N-CA	5.60	1.53	1.46
1	I	143	ARG	CD-NE	5.60	1.54	1.46
1	i	200	THR	C-O	-5.59	1.17	1.24
1	l	140	LYS	CA-C	5.59	1.60	1.52
1	m	172	LEU	N-CA	-5.59	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	142	VAL	CA-CB	-5.59	1.46	1.54
1	K	106	GLY	C-N	5.59	1.41	1.33
1	U	147	PRO	N-CA	5.59	1.53	1.47
1	O	118	MET	N-CA	-5.59	1.38	1.46
1	P	212	GLU	C-N	5.59	1.41	1.33
1	g	87	HIS	ND1-CE1	5.59	1.38	1.32
1	h	119	THR	C-N	5.59	1.40	1.33
1	M	87	HIS	CG-CD2	5.58	1.42	1.35
1	b	95	GLN	N-CA	-5.58	1.39	1.46
1	6	132	ARG	N-CA	5.58	1.53	1.46
1	l	77	ALA	CA-CB	5.58	1.62	1.53
1	l	149	SER	N-CA	5.58	1.53	1.45
1	e	84	HIS	C-N	5.58	1.40	1.33
1	C	68	MET	C-N	5.58	1.41	1.33
1	J	144	MET	N-CA	-5.58	1.39	1.46
1	K	62	HIS	ND1-CE1	-5.58	1.26	1.32
1	N	63	GLN	CA-C	-5.58	1.44	1.52
1	W	33	SER	C-N	5.58	1.40	1.33
1	5	106	GLY	C-N	5.58	1.41	1.33
1	T	99	PRO	N-CD	-5.58	1.40	1.47
1	k	166	ASP	CA-C	5.58	1.60	1.52
1	B	147	PRO	N-CA	5.58	1.54	1.47
1	D	145	TYR	CG-CD1	5.58	1.51	1.39
1	T	207	PRO	C-N	5.58	1.41	1.33
1	Z	12	HIS	CD2-NE2	5.58	1.44	1.37
1	E	124	ILE	N-CA	-5.58	1.42	1.46
1	F	28	GLU	N-CA	5.58	1.53	1.46
1	O	23	TRP	CA-CB	5.58	1.62	1.53
1	R	167	ARG	CA-C	-5.58	1.45	1.52
1	T	111	LEU	CB-CG	5.58	1.64	1.53
1	W	141	ILE	C-N	5.58	1.41	1.33
1	c	149	SER	CA-C	5.58	1.59	1.52
1	H	44	SER	N-CA	-5.57	1.39	1.46
1	T	114	GLN	CA-C	5.57	1.59	1.52
1	W	175	GLU	N-CA	-5.57	1.39	1.46
1	Y	82	ARG	CD-NE	5.57	1.54	1.46
1	l	156	GLY	C-N	5.57	1.40	1.34
1	g	82	ARG	N-CA	5.57	1.53	1.46
1	U	53	ASN	CA-CB	5.57	1.61	1.53
1	g	92	GLU	CA-CB	5.57	1.61	1.53
1	S	153	ILE	CA-C	5.57	1.59	1.52
1	U	19	THR	CA-C	5.57	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	157	PRO	N-CD	-5.57	1.40	1.47
1	6	102	SER	N-CA	-5.57	1.39	1.46
1	6	150	ILE	CA-C	5.57	1.60	1.52
1	h	78	ALA	N-CA	5.57	1.53	1.46
1	E	192	GLN	C-N	5.56	1.42	1.33
1	A	156	GLY	N-CA	5.56	1.52	1.44
1	C	170	LYS	N-CA	-5.56	1.39	1.46
1	R	185	MET	CA-C	-5.56	1.45	1.52
1	6	166	ASP	C-N	5.56	1.41	1.33
1	H	116	GLY	C-N	5.56	1.41	1.33
1	d	73	ILE	CA-C	5.56	1.59	1.52
1	A	124	ILE	CA-CB	5.56	1.60	1.54
1	G	191	VAL	CA-CB	5.56	1.61	1.54
1	S	193	ASN	C-N	5.56	1.40	1.33
1	Y	203	LYS	CA-CB	5.56	1.62	1.53
1	b	60	GLY	CA-C	-5.56	1.44	1.51
1	d	206	GLY	C-N	-5.56	1.28	1.33
1	W	149	SER	C-N	5.56	1.40	1.33
1	a	221	VAL	N-CA	5.56	1.53	1.46
1	6	2	ILE	N-CA	-5.56	1.39	1.46
1	l	66	MET	N-CA	-5.56	1.39	1.46
1	f	46	GLY	C-N	5.56	1.41	1.33
1	X	47	ALA	CA-C	-5.56	1.45	1.52
1	N	21	ASN	CA-C	5.55	1.59	1.52
1	m	85	PRO	CA-C	-5.55	1.44	1.52
1	F	199	LYS	CA-C	-5.55	1.45	1.52
1	5	213	GLU	C-O	-5.55	1.17	1.24
1	a	119	THR	CA-C	-5.55	1.44	1.52
1	c	133	TRP	CA-CB	5.55	1.61	1.53
1	K	202	LEU	CA-C	5.55	1.59	1.52
1	N	48	THR	CA-C	-5.55	1.45	1.53
1	O	44	SER	C-N	5.55	1.41	1.33
1	O	91	ILE	CA-C	5.55	1.59	1.52
1	Z	94	GLY	C-N	5.55	1.41	1.33
1	k	183	ASN	N-CA	-5.55	1.39	1.46
1	g	124	ILE	CA-C	-5.55	1.47	1.52
1	B	5	ASN	C-N	5.55	1.41	1.33
1	F	180	GLU	C-N	-5.55	1.27	1.33
1	G	97	ARG	C-N	5.55	1.41	1.33
1	H	185	MET	CA-C	-5.55	1.45	1.52
1	N	129	ILE	N-CA	5.55	1.53	1.46
1	O	87	HIS	CB-CG	5.55	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	90	PRO	CA-CB	5.55	1.60	1.53
1	T	55	MET	CA-C	5.55	1.59	1.52
1	j	85	PRO	N-CA	-5.55	1.40	1.47
1	g	153	ILE	C-N	5.55	1.40	1.33
1	I	170	LYS	N-CA	5.54	1.53	1.46
1	W	91	ILE	CA-CB	-5.54	1.47	1.54
1	P	87	HIS	ND1-CE1	5.54	1.38	1.32
1	X	157	PRO	CA-CB	5.54	1.62	1.53
1	m	122	PRO	CA-CB	-5.54	1.43	1.53
1	H	120	HIS	ND1-CE1	5.54	1.38	1.32
1	b	87	HIS	CG-ND1	5.54	1.44	1.38
1	7	190	LEU	CA-C	5.54	1.60	1.52
1	V	75	GLU	CA-CB	5.54	1.61	1.53
1	m	91	ILE	CA-C	-5.54	1.46	1.52
1	g	117	TRP	CA-C	5.54	1.59	1.52
1	e	72	THR	CA-C	-5.53	1.45	1.52
1	B	47	ALA	CA-C	5.53	1.59	1.52
1	F	197	ASP	CA-CB	5.53	1.61	1.53
1	O	100	ARG	CD-NE	5.53	1.53	1.46
1	j	147	PRO	CA-C	-5.53	1.44	1.52
1	l	224	PRO	CA-C	5.53	1.58	1.53
1	m	75	GLU	CA-CB	5.53	1.61	1.53
1	G	186	THR	C-O	5.53	1.30	1.24
1	Y	123	PRO	CA-CB	5.53	1.61	1.53
1	k	164	TYR	CA-CB	5.53	1.61	1.53
1	m	78	ALA	CA-CB	5.53	1.62	1.53
1	e	132	ARG	CA-C	-5.53	1.45	1.52
1	D	159	GLU	N-CA	-5.52	1.40	1.46
1	G	61	GLY	C-O	-5.52	1.18	1.23
1	I	143	ARG	NE-CZ	5.52	1.39	1.33
1	K	207	PRO	C-N	5.52	1.41	1.33
1	P	226	HIS	CA-CB	5.52	1.61	1.53
1	R	111	LEU	N-CA	5.52	1.53	1.46
1	S	87	HIS	CG-CD2	-5.52	1.29	1.35
1	j	147	PRO	N-CD	-5.52	1.40	1.47
1	k	159	GLU	N-CA	5.52	1.52	1.45
1	g	151	LEU	CA-CB	5.52	1.62	1.53
1	K	174	ALA	CA-CB	5.52	1.62	1.53
1	R	39	MET	N-CA	-5.52	1.39	1.46
1	k	130	TYR	C-N	-5.52	1.26	1.33
1	e	174	ALA	C-N	5.52	1.40	1.33
1	l	106	GLY	CA-C	-5.52	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	4	GLN	CA-CB	5.52	1.61	1.53
1	R	99	PRO	C-O	5.52	1.29	1.23
1	m	4	GLN	N-CA	-5.52	1.39	1.46
1	L	104	ILE	CA-C	5.51	1.59	1.52
1	L	161	PHE	CA-CB	5.51	1.62	1.53
1	j	212	GLU	CA-CB	5.51	1.62	1.53
1	6	162	ARG	CA-C	5.51	1.59	1.52
1	g	89	GLY	N-CA	5.51	1.52	1.44
1	J	71	GLU	CA-C	5.51	1.60	1.52
1	J	171	THR	CA-CB	5.51	1.62	1.53
1	P	169	TYR	CZ-OH	5.51	1.49	1.38
1	W	218	CYS	C-N	5.51	1.41	1.33
1	b	36	VAL	N-CA	5.51	1.53	1.46
1	e	224	PRO	N-CA	-5.51	1.40	1.47
1	I	21	ASN	C-N	5.51	1.41	1.33
1	O	30	LYS	C-N	5.51	1.39	1.33
1	b	135	ILE	C-N	5.51	1.41	1.33
1	B	91	ILE	CB-CG1	5.50	1.64	1.53
1	m	6	LEU	CA-CB	5.50	1.61	1.53
1	f	21	ASN	CB-CG	5.50	1.65	1.52
1	B	177	ALA	CA-CB	-5.50	1.44	1.53
1	Q	62	HIS	CB-CG	5.50	1.57	1.50
1	B	52	LEU	C-N	5.50	1.41	1.33
1	5	166	ASP	CA-CB	5.50	1.62	1.53
1	g	160	PRO	CA-C	5.50	1.60	1.52
1	S	66	MET	CA-C	-5.50	1.45	1.52
1	U	123	PRO	N-CD	-5.50	1.40	1.47
1	V	160	PRO	CA-C	5.50	1.59	1.52
1	5	166	ASP	CA-C	5.50	1.60	1.52
1	K	123	PRO	C-N	5.49	1.39	1.33
1	N	41	SER	C-N	-5.49	1.26	1.33
1	m	74	ASN	CA-C	-5.49	1.45	1.52
1	e	111	LEU	C-N	5.49	1.41	1.33
1	D	148	THR	CA-CB	5.49	1.61	1.53
1	m	124	ILE	CA-C	5.49	1.58	1.52
1	7	41	SER	N-CA	-5.49	1.39	1.46
1	B	184	TRP	CA-C	5.49	1.59	1.52
1	J	228	ALA	C-N	5.49	1.41	1.33
1	V	201	ILE	N-CA	5.49	1.52	1.46
1	X	25	LYS	C-N	5.49	1.40	1.33
1	M	26	VAL	C-N	5.49	1.40	1.33
1	5	23	TRP	CA-C	-5.49	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	71	GLU	C-N	5.49	1.41	1.33
1	7	65	ALA	N-CA	-5.49	1.39	1.46
1	k	33	SER	CA-CB	5.48	1.61	1.53
1	m	112	GLN	N-CA	-5.48	1.39	1.46
1	e	1	PRO	N-CD	5.48	1.55	1.47
1	Z	66	MET	CA-CB	5.48	1.62	1.53
1	Z	155	GLN	CA-CB	5.48	1.62	1.53
1	5	83	LEU	C-N	5.48	1.38	1.33
1	h	173	ARG	CD-NE	5.48	1.53	1.46
1	m	203	LYS	N-CA	-5.48	1.39	1.46
1	d	140	LYS	CA-C	5.48	1.60	1.52
1	e	19	THR	N-CA	5.48	1.52	1.46
1	K	184	TRP	NE1-CE2	5.48	1.43	1.37
1	L	61	GLY	C-O	-5.48	1.17	1.23
1	T	72	THR	CA-CB	5.48	1.62	1.53
1	k	179	GLN	CA-CB	5.48	1.61	1.53
1	h	192	GLN	CA-CB	5.48	1.61	1.53
1	A	167	ARG	NE-CZ	5.48	1.39	1.33
1	E	215	MET	CA-C	5.48	1.60	1.52
1	e	180	GLU	CA-C	-5.48	1.45	1.52
1	B	157	PRO	CA-C	-5.48	1.43	1.52
1	a	13	GLN	C-N	5.48	1.40	1.33
1	d	140	LYS	C-N	5.48	1.41	1.33
1	C	185	MET	SD-CE	5.47	1.93	1.79
1	D	3	VAL	CA-CB	-5.47	1.47	1.54
1	V	17	PRO	CA-CB	5.47	1.61	1.53
1	Y	178	SER	CA-C	-5.47	1.45	1.53
1	c	198	CYS	C-N	5.47	1.40	1.33
1	h	64	ALA	CA-C	5.47	1.59	1.52
1	U	150	ILE	CA-C	-5.47	1.45	1.52
1	7	220	GLY	CA-C	-5.47	1.43	1.51
1	C	134	ILE	C-N	5.47	1.40	1.33
1	N	175	GLU	CA-C	5.47	1.60	1.52
1	5	197	ASP	CA-CB	5.47	1.63	1.53
1	B	27	VAL	CA-C	5.47	1.60	1.52
1	F	180	GLU	CA-C	5.47	1.59	1.52
1	O	173	ARG	CD-NE	5.47	1.53	1.46
1	B	84	HIS	ND1-CE1	5.47	1.38	1.32
1	G	226	HIS	ND1-CE1	5.47	1.38	1.32
1	I	142	VAL	CA-CB	-5.47	1.47	1.54
1	O	46	GLY	C-N	5.47	1.40	1.33
1	e	226	HIS	ND1-CE1	5.47	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	128	GLU	CA-C	5.46	1.60	1.52
1	H	129	ILE	N-CA	-5.46	1.38	1.46
1	S	145	TYR	CZ-OH	5.46	1.49	1.38
1	d	77	ALA	CA-CB	5.46	1.62	1.53
1	D	82	ARG	CD-NE	5.46	1.53	1.46
1	7	62	HIS	CB-CG	5.46	1.57	1.50
1	D	20	LEU	N-CA	-5.46	1.39	1.46
1	N	12	HIS	ND1-CE1	5.46	1.38	1.32
1	c	187	GLU	CA-CB	5.46	1.62	1.53
1	T	12	HIS	C-N	-5.46	1.25	1.33
1	K	68	MET	N-CA	5.46	1.52	1.46
1	L	30	LYS	C-N	5.46	1.41	1.33
1	T	22	ALA	N-CA	5.46	1.53	1.46
1	Y	202	LEU	C-N	5.46	1.41	1.33
1	j	111	LEU	CA-C	5.46	1.60	1.52
1	5	115	ILE	CA-C	5.46	1.60	1.52
1	6	83	LEU	C-N	5.46	1.38	1.33
1	f	133	TRP	C-O	-5.46	1.17	1.24
1	W	84	HIS	CG-CD2	-5.46	1.29	1.35
1	Y	22	ALA	C-O	-5.45	1.17	1.24
1	M	80	TRP	C-N	5.45	1.41	1.33
1	l	219	GLN	C-N	5.45	1.41	1.33
1	g	191	VAL	CA-CB	5.45	1.60	1.54
1	K	117	TRP	N-CA	-5.45	1.39	1.46
1	M	78	ALA	CA-C	5.45	1.60	1.52
1	O	161	PHE	CA-C	-5.45	1.45	1.52
1	V	177	ALA	CA-C	5.45	1.59	1.52
1	J	200	THR	N-CA	5.45	1.52	1.46
1	S	9	GLN	CA-CB	-5.45	1.46	1.54
1	T	68	MET	C-N	5.45	1.41	1.33
1	c	195	ASN	CA-CB	5.45	1.62	1.52
1	f	185	MET	CA-CB	5.45	1.62	1.53
1	i	183	ASN	N-CA	5.44	1.53	1.46
1	l	91	ILE	CB-CG1	5.44	1.64	1.53
1	S	53	ASN	N-CA	5.44	1.52	1.46
1	U	120	HIS	ND1-CE1	5.44	1.38	1.32
1	c	175	GLU	N-CA	-5.44	1.39	1.45
1	6	98	GLU	CA-CB	5.44	1.62	1.53
1	k	72	THR	CA-C	-5.44	1.46	1.52
1	M	84	HIS	CA-C	5.44	1.58	1.52
1	R	165	VAL	C-N	5.44	1.41	1.33
1	U	149	SER	CA-C	-5.44	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	40	PHE	CA-CB	5.44	1.61	1.53
1	A	70	LYS	C-O	-5.44	1.17	1.24
1	C	70	LYS	N-CA	-5.44	1.39	1.46
1	l	206	GLY	N-CA	5.44	1.52	1.44
1	7	134	ILE	N-CA	-5.44	1.40	1.46
1	d	60	GLY	N-CA	5.44	1.53	1.45
1	f	67	GLN	C-N	5.44	1.41	1.33
1	S	77	ALA	C-N	-5.44	1.26	1.33
1	Y	219	GLN	CA-C	-5.44	1.45	1.52
1	H	84	HIS	CE1-NE2	5.43	1.38	1.32
1	B	54	THR	CA-C	-5.43	1.45	1.52
1	U	226	HIS	CE1-NE2	5.43	1.38	1.32
1	W	128	GLU	C-O	-5.43	1.17	1.24
1	c	178	SER	CA-C	5.43	1.60	1.53
1	i	67	GLN	N-CA	5.43	1.53	1.46
1	7	36	VAL	N-CA	-5.43	1.39	1.46
1	I	56	LEU	CA-CB	5.43	1.62	1.53
1	R	145	TYR	CA-CB	5.43	1.61	1.53
1	a	87	HIS	CD2-NE2	5.43	1.43	1.37
1	6	110	THR	N-CA	5.43	1.52	1.46
1	W	184	TRP	CA-C	5.43	1.60	1.52
1	m	61	GLY	N-CA	5.43	1.52	1.45
1	5	48	THR	N-CA	5.43	1.53	1.45
1	k	105	ALA	CA-C	5.43	1.60	1.52
1	l	80	TRP	N-CA	-5.43	1.40	1.46
1	l	128	GLU	CA-CB	-5.43	1.44	1.53
1	K	5	ASN	CA-CB	5.42	1.61	1.53
1	Q	128	GLU	CA-CB	5.42	1.61	1.53
1	S	23	TRP	NE1-CE2	5.42	1.43	1.37
1	a	226	HIS	ND1-CE1	5.42	1.38	1.32
1	7	163	ASP	CA-C	5.42	1.59	1.52
1	B	72	THR	N-CA	5.42	1.53	1.46
1	5	212	GLU	CA-CB	5.42	1.61	1.53
1	i	230	VAL	CA-C	-5.42	1.45	1.52
1	l	229	ARG	CA-CB	5.42	1.61	1.53
1	B	115	ILE	N-CA	-5.42	1.39	1.46
1	D	164	TYR	C-N	5.42	1.40	1.33
1	E	20	LEU	N-CA	-5.42	1.39	1.46
1	S	30	LYS	C-N	5.42	1.41	1.33
1	E	101	GLY	N-CA	5.42	1.52	1.45
1	H	230	VAL	N-CA	5.41	1.53	1.46
1	U	37	ILE	CA-C	5.41	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	133	TRP	CG-CD2	5.41	1.53	1.43
1	i	137	GLY	C-O	-5.41	1.17	1.23
1	c	12	HIS	ND1-CE1	5.41	1.38	1.32
1	C	197	ASP	N-CA	5.41	1.52	1.46
1	N	111	LEU	CA-CB	5.41	1.62	1.53
1	Q	74	ASN	N-CA	5.41	1.52	1.46
1	k	163	ASP	CA-C	-5.41	1.45	1.52
1	l	73	ILE	CA-C	-5.41	1.46	1.52
1	P	55	MET	C-N	5.41	1.40	1.33
1	D	87	HIS	ND1-CE1	5.41	1.38	1.32
1	6	12	HIS	C-N	5.40	1.41	1.33
1	d	173	ARG	NE-CZ	5.40	1.39	1.33
1	h	221	VAL	CA-C	5.40	1.59	1.52
1	C	110	THR	N-CA	5.40	1.52	1.45
1	X	74	ASN	CA-CB	5.40	1.62	1.53
1	T	196	PRO	CA-CB	5.40	1.61	1.53
1	6	58	THR	N-CA	5.40	1.52	1.46
1	j	21	ASN	N-CA	5.40	1.52	1.46
1	k	29	GLU	N-CA	5.40	1.53	1.46
1	S	161	PHE	CA-CB	5.40	1.61	1.53
1	c	200	THR	CA-C	-5.40	1.45	1.52
1	B	30	LYS	CA-CB	-5.40	1.45	1.54
1	H	75	GLU	CA-C	5.40	1.59	1.52
1	I	71	GLU	CA-C	-5.40	1.45	1.52
1	L	82	ARG	NE-CZ	5.40	1.39	1.33
1	N	198	CYS	C-N	5.40	1.41	1.33
1	P	70	LYS	CA-CB	5.40	1.61	1.53
1	T	197	ASP	C-O	-5.40	1.17	1.24
1	f	133	TRP	C-N	5.40	1.40	1.33
1	H	159	GLU	C-N	5.40	1.40	1.33
1	X	167	ARG	CA-CB	5.40	1.61	1.53
1	Y	170	LYS	N-CA	5.40	1.52	1.46
1	A	172	LEU	CA-CB	5.39	1.61	1.53
1	F	139	ASN	N-CA	5.39	1.52	1.46
1	O	180	GLU	CA-C	5.39	1.59	1.52
1	S	86	VAL	CA-C	5.39	1.59	1.52
1	T	136	LEU	N-CA	-5.39	1.39	1.46
1	c	17	PRO	CA-C	5.39	1.62	1.52
1	e	47	ALA	N-CA	-5.39	1.39	1.46
1	I	164	TYR	CA-C	5.39	1.59	1.52
1	M	101	GLY	N-CA	-5.39	1.39	1.45
1	O	29	GLU	C-N	5.39	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	m	203	LYS	C-N	5.39	1.40	1.33
1	7	97	ARG	CD-NE	5.39	1.53	1.46
1	d	70	LYS	CA-C	-5.39	1.46	1.52
1	F	80	TRP	CA-CB	5.39	1.61	1.53
1	Z	141	ILE	C-N	5.39	1.40	1.33
1	m	22	ALA	CA-CB	5.39	1.61	1.53
1	f	167	ARG	CA-C	5.39	1.59	1.52
1	g	184	TRP	N-CA	5.39	1.52	1.46
1	C	14	ALA	CA-CB	5.39	1.62	1.53
1	I	16	SER	N-CA	5.39	1.53	1.46
1	i	27	VAL	CA-CB	-5.39	1.47	1.54
1	g	97	ARG	C-N	5.39	1.42	1.33
1	E	216	THR	C-N	5.39	1.40	1.33
1	G	203	LYS	N-CA	-5.39	1.39	1.46
1	S	15	ILE	C-N	5.39	1.41	1.33
1	T	78	ALA	N-CA	-5.39	1.39	1.46
1	a	118	MET	C-O	-5.39	1.17	1.24
1	i	204	ALA	N-CA	-5.39	1.40	1.46
1	E	124	ILE	C-O	5.38	1.31	1.24
1	P	226	HIS	CA-C	-5.38	1.45	1.52
1	d	97	ARG	CD-NE	5.38	1.53	1.46
1	d	36	VAL	N-CA	-5.38	1.38	1.46
1	f	57	ASN	N-CA	-5.38	1.39	1.46
1	Q	207	PRO	CA-C	5.38	1.60	1.52
1	j	73	ILE	C-N	5.38	1.41	1.33
1	H	199	LYS	CA-C	-5.38	1.45	1.52
1	L	51	ASP	CA-CB	5.38	1.61	1.53
1	V	163	ASP	N-CA	5.38	1.53	1.46
1	b	33	SER	C-O	-5.38	1.19	1.24
1	e	142	VAL	CA-CB	-5.38	1.46	1.54
1	Q	173	ARG	CA-CB	5.38	1.62	1.53
1	X	218	CYS	CA-C	-5.38	1.45	1.52
1	D	192	GLN	C-N	5.37	1.40	1.33
1	E	132	ARG	CD-NE	5.37	1.53	1.46
1	E	209	ALA	CA-C	5.37	1.59	1.52
1	Z	144	MET	N-CA	5.37	1.52	1.46
1	a	56	LEU	C-O	-5.37	1.18	1.24
1	b	27	VAL	CA-C	5.37	1.59	1.52
1	c	119	THR	CA-C	5.37	1.59	1.52
1	O	186	THR	N-CA	5.37	1.52	1.46
1	V	184	TRP	C-N	-5.37	1.26	1.33
1	W	149	SER	CA-CB	5.37	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	224	PRO	C-N	5.37	1.41	1.33
1	f	221	VAL	CA-C	5.37	1.59	1.52
1	U	119	THR	N-CA	5.37	1.53	1.46
1	f	200	THR	CA-CB	5.37	1.62	1.53
1	L	157	PRO	N-CD	5.37	1.55	1.47
1	M	11	VAL	C-O	-5.37	1.18	1.24
1	V	1	PRO	N-CA	5.37	1.55	1.47
1	Z	26	VAL	C-N	5.37	1.40	1.33
1	6	137	GLY	CA-C	5.37	1.58	1.52
1	F	150	ILE	CA-C	5.37	1.60	1.52
1	Q	136	LEU	N-CA	5.37	1.52	1.46
1	F	134	ILE	N-CA	-5.37	1.40	1.46
1	G	81	ASP	C-N	5.37	1.41	1.33
1	S	69	LEU	C-O	-5.37	1.18	1.24
1	U	229	ARG	CA-CB	5.37	1.62	1.53
1	W	142	VAL	CA-CB	-5.37	1.47	1.54
1	f	49	PRO	CA-CB	5.37	1.61	1.53
1	S	206	GLY	CA-C	-5.36	1.44	1.51
1	T	46	GLY	CA-C	-5.36	1.44	1.51
1	X	93	PRO	CA-CB	5.36	1.61	1.53
1	Y	140	LYS	N-CA	5.36	1.52	1.46
1	C	143	ARG	CA-C	5.36	1.60	1.52
1	J	131	LYS	C-N	5.36	1.41	1.33
1	6	224	PRO	N-CA	-5.36	1.40	1.47
1	7	43	LEU	CB-CG	5.36	1.64	1.53
1	S	161	PHE	CG-CD2	5.36	1.50	1.38
1	b	185	MET	C-O	-5.36	1.17	1.24
1	M	108	THR	N-CA	5.36	1.52	1.46
1	T	11	VAL	CA-C	-5.36	1.46	1.52
1	k	74	ASN	N-CA	5.36	1.52	1.46
1	V	72	THR	N-CA	5.36	1.52	1.46
1	X	89	GLY	CA-C	5.36	1.59	1.51
1	d	184	TRP	NE1-CE2	5.36	1.43	1.37
1	O	193	ASN	CA-C	5.35	1.60	1.52
1	E	165	VAL	N-CA	-5.35	1.40	1.46
1	G	52	LEU	N-CA	-5.35	1.39	1.46
1	Z	50	GLN	CA-C	5.35	1.59	1.52
1	S	73	ILE	N-CA	-5.35	1.40	1.46
1	g	172	LEU	CA-CB	5.35	1.62	1.53
1	E	96	MET	N-CA	5.35	1.52	1.46
1	H	58	THR	C-N	5.35	1.40	1.33
1	J	209	ALA	N-CA	-5.35	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	70	LYS	N-CA	5.35	1.52	1.46
1	h	167	ARG	CD-NE	5.35	1.53	1.46
1	5	100	ARG	C-N	5.35	1.40	1.33
1	a	125	PRO	C-N	-5.35	1.27	1.33
1	M	136	LEU	C-N	5.35	1.40	1.33
1	H	143	ARG	C-N	5.34	1.40	1.33
1	P	167	ARG	CD-NE	5.34	1.53	1.46
1	S	18	ARG	CD-NE	5.34	1.53	1.46
1	W	74	ASN	C-N	5.34	1.41	1.33
1	m	80	TRP	CZ2-CH2	5.34	1.47	1.37
1	N	135	ILE	CA-C	5.34	1.59	1.52
1	U	166	ASP	CA-CB	5.34	1.61	1.53
1	W	2	ILE	CA-CB	-5.34	1.48	1.54
1	k	23	TRP	CA-C	5.34	1.59	1.52
1	7	54	THR	CA-C	-5.34	1.46	1.52
1	f	212	GLU	CA-CB	5.34	1.61	1.53
1	F	166	ASP	CA-CB	5.34	1.61	1.53
1	K	86	VAL	C-O	-5.34	1.18	1.24
1	e	121	ASN	CA-C	5.34	1.59	1.52
1	I	70	LYS	CA-C	5.34	1.59	1.52
1	f	218	CYS	C-N	5.34	1.42	1.33
1	K	77	ALA	CA-CB	5.33	1.61	1.53
1	T	204	ALA	N-CA	-5.33	1.39	1.46
1	d	21	ASN	C-N	5.33	1.41	1.33
1	D	218	CYS	CA-CB	5.33	1.62	1.53
1	J	167	ARG	CD-NE	5.33	1.53	1.46
1	O	36	VAL	N-CA	5.33	1.53	1.46
1	i	63	GLN	CA-C	5.33	1.59	1.52
1	j	22	ALA	CA-C	5.33	1.59	1.52
1	e	81	ASP	CA-C	5.33	1.59	1.52
1	k	42	ALA	CA-CB	-5.33	1.44	1.53
1	h	20	LEU	C-O	-5.33	1.18	1.24
1	A	20	LEU	CA-CB	5.33	1.61	1.53
1	J	210	THR	CA-C	-5.33	1.46	1.52
1	T	174	ALA	CA-CB	5.33	1.61	1.53
1	T	221	VAL	C-N	5.33	1.40	1.32
1	m	8	GLY	C-N	5.33	1.40	1.33
1	7	26	VAL	CA-C	5.33	1.59	1.52
1	e	2	ILE	N-CA	-5.33	1.40	1.46
1	D	32	PHE	C-N	5.33	1.39	1.33
1	I	87	HIS	CB-CG	5.33	1.57	1.50
1	F	161	PHE	N-CA	-5.33	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	192	GLN	C-N	5.33	1.41	1.33
1	U	169	TYR	CA-CB	5.33	1.62	1.53
1	Y	198	CYS	N-CA	-5.33	1.40	1.46
1	g	10	MET	CA-C	5.33	1.59	1.52
1	h	168	PHE	CA-CB	5.33	1.61	1.53
1	B	59	VAL	CA-CB	-5.32	1.47	1.54
1	D	220	GLY	C-N	5.32	1.39	1.34
1	I	84	HIS	CG-ND1	5.32	1.44	1.38
1	O	113	GLU	C-N	5.32	1.41	1.34
1	V	140	LYS	C-N	5.32	1.40	1.33
1	b	201	ILE	CA-CB	-5.32	1.47	1.54
1	O	223	GLY	CA-C	5.32	1.59	1.51
1	k	182	LYS	C-N	5.32	1.41	1.33
1	Q	169	TYR	N-CA	-5.32	1.39	1.46
1	V	145	TYR	CZ-OH	5.32	1.49	1.38
1	f	27	VAL	CA-C	5.32	1.60	1.52
1	Q	125	PRO	CA-CB	-5.32	1.46	1.53
1	U	138	LEU	CA-C	5.32	1.59	1.52
1	a	132	ARG	C-N	5.32	1.40	1.33
1	a	195	ASN	CA-CB	5.32	1.61	1.53
1	G	66	MET	CA-C	5.32	1.59	1.52
1	J	169	TYR	N-CA	5.32	1.52	1.46
1	P	110	THR	CA-C	5.32	1.59	1.52
1	W	86	VAL	CA-C	-5.32	1.45	1.52
1	M	112	GLN	N-CA	5.31	1.52	1.46
1	6	189	LEU	C-N	-5.31	1.26	1.33
1	g	11	VAL	N-CA	-5.31	1.40	1.46
1	C	186	THR	CB-OG1	-5.31	1.35	1.43
1	T	26	VAL	CA-CB	-5.31	1.47	1.54
1	X	107	THR	N-CA	5.31	1.53	1.46
1	c	103	ASP	N-CA	-5.31	1.39	1.46
1	7	80	TRP	C-N	5.31	1.41	1.33
1	6	175	GLU	N-CA	-5.31	1.39	1.45
1	i	124	ILE	C-O	5.31	1.28	1.23
1	j	177	ALA	CA-CB	-5.31	1.44	1.53
1	5	84	HIS	ND1-CE1	5.31	1.37	1.32
1	6	61	GLY	CA-C	5.31	1.57	1.51
1	A	138	LEU	CA-C	5.31	1.59	1.52
1	m	229	ARG	CA-C	-5.31	1.46	1.52
1	M	53	ASN	CA-CB	5.30	1.62	1.53
1	P	9	GLN	N-CA	-5.30	1.39	1.45
1	V	171	THR	N-CA	5.30	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	110	THR	N-CA	-5.30	1.39	1.45
1	Z	30	LYS	C-N	5.30	1.41	1.33
1	f	80	TRP	NE1-CE2	5.30	1.43	1.37
1	G	172	LEU	CA-CB	5.30	1.61	1.53
1	P	213	GLU	C-N	5.30	1.40	1.33
1	H	107	THR	CA-C	5.30	1.59	1.52
1	Q	113	GLU	CA-CB	5.30	1.62	1.53
1	T	82	ARG	NE-CZ	5.30	1.38	1.33
1	U	77	ALA	C-O	-5.30	1.17	1.24
1	a	46	GLY	C-N	5.30	1.40	1.33
1	c	135	ILE	CA-CB	-5.30	1.47	1.54
1	j	230	VAL	C-N	5.30	1.40	1.33
1	m	63	GLN	CA-C	-5.30	1.46	1.52
1	G	11	VAL	N-CA	-5.30	1.40	1.46
1	I	212	GLU	CA-C	5.30	1.59	1.52
1	J	178	SER	N-CA	5.30	1.52	1.46
1	U	123	PRO	C-N	5.30	1.38	1.33
1	W	19	THR	CA-C	5.30	1.59	1.52
1	C	189	LEU	CA-CB	5.30	1.61	1.53
1	K	189	LEU	C-N	5.30	1.41	1.33
1	M	16	SER	CA-CB	5.30	1.60	1.53
1	R	151	LEU	CA-C	5.30	1.59	1.52
1	H	14	ALA	N-CA	-5.29	1.39	1.46
1	M	90	PRO	C-O	5.29	1.30	1.24
1	M	107	THR	CA-C	-5.29	1.45	1.52
1	j	164	TYR	C-N	5.29	1.40	1.33
1	R	73	ILE	N-CA	-5.29	1.40	1.46
1	G	114	GLN	CA-C	-5.29	1.46	1.52
1	M	230	VAL	CA-CB	-5.29	1.48	1.54
1	O	62	HIS	N-CA	5.29	1.54	1.46
1	R	175	GLU	C-N	5.29	1.40	1.33
1	V	64	ALA	CA-C	-5.29	1.46	1.52
1	5	223	GLY	N-CA	5.29	1.51	1.44
1	l	198	CYS	CA-CB	5.29	1.61	1.53
1	e	77	ALA	CA-C	-5.29	1.46	1.52
1	L	142	VAL	N-CA	-5.29	1.39	1.46
1	O	122	PRO	C-N	5.29	1.40	1.33
1	U	144	MET	CA-CB	5.29	1.61	1.53
1	a	81	ASP	N-CA	5.29	1.52	1.46
1	a	103	ASP	CA-CB	5.29	1.62	1.53
1	6	74	ASN	CA-CB	5.29	1.61	1.53
1	l	59	VAL	CA-CB	-5.29	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	55	MET	CA-CB	5.29	1.61	1.53
1	F	184	TRP	NE1-CE2	5.29	1.43	1.37
1	B	155	GLN	C-N	5.29	1.41	1.33
1	H	37	ILE	CA-CB	5.29	1.60	1.54
1	T	181	VAL	CA-C	5.29	1.59	1.52
1	b	6	LEU	N-CA	5.29	1.52	1.45
1	E	186	THR	C-O	5.28	1.30	1.24
1	Y	99	PRO	N-CA	-5.28	1.40	1.47
1	a	35	GLU	CA-C	5.28	1.59	1.52
1	J	223	GLY	N-CA	5.28	1.51	1.44
1	L	106	GLY	CA-C	-5.28	1.44	1.51
1	V	137	GLY	C-O	-5.28	1.17	1.24
1	6	225	GLY	N-CA	5.28	1.53	1.45
1	j	72	THR	CA-CB	-5.28	1.45	1.53
1	M	206	GLY	N-CA	5.28	1.51	1.44
1	R	92	GLU	CA-CB	5.28	1.62	1.53
1	X	181	VAL	CA-C	5.28	1.59	1.52
1	G	8	GLY	C-N	5.28	1.41	1.33
1	V	138	LEU	N-CA	-5.28	1.39	1.46
1	b	87	HIS	ND1-CE1	5.28	1.37	1.32
1	l	48	THR	N-CA	5.28	1.53	1.45
1	7	40	PHE	CA-C	5.28	1.59	1.52
1	d	83	LEU	CA-CB	5.28	1.61	1.53
1	B	176	GLN	CA-CB	5.28	1.61	1.53
1	j	84	HIS	CD2-NE2	5.28	1.43	1.37
1	h	122	PRO	C-N	5.28	1.39	1.33
1	F	186	THR	CA-CB	5.27	1.61	1.53
1	Q	17	PRO	N-CA	-5.27	1.40	1.47
1	N	185	MET	CA-CB	5.27	1.62	1.53
1	e	69	LEU	CA-C	5.27	1.59	1.52
1	h	229	ARG	N-CA	5.27	1.53	1.46
1	N	80	TRP	N-CA	-5.27	1.40	1.46
1	Y	61	GLY	N-CA	5.27	1.52	1.45
1	a	190	LEU	C-N	5.27	1.40	1.33
1	F	78	ALA	CA-CB	5.27	1.61	1.53
1	K	76	GLU	N-CA	5.27	1.53	1.46
1	a	187	GLU	C-N	5.27	1.40	1.33
1	H	16	SER	CA-C	5.27	1.58	1.52
1	U	38	PRO	N-CD	-5.27	1.40	1.47
1	T	24	VAL	C-O	-5.27	1.17	1.24
1	f	121	ASN	CA-C	5.26	1.58	1.52
1	G	215	MET	C-N	5.26	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	91	ILE	CB-CG1	5.26	1.64	1.53
1	Q	77	ALA	N-CA	-5.26	1.39	1.46
1	f	12	HIS	ND1-CE1	5.26	1.37	1.32
1	P	36	VAL	C-N	5.26	1.39	1.33
1	R	33	SER	CA-C	-5.26	1.47	1.52
1	X	69	LEU	C-N	5.26	1.40	1.33
1	j	157	PRO	N-CA	5.26	1.54	1.47
1	E	135	ILE	N-CA	5.26	1.52	1.46
1	E	173	ARG	NE-CZ	5.26	1.38	1.33
1	G	72	THR	N-CA	5.26	1.52	1.46
1	a	63	GLN	N-CA	-5.26	1.39	1.46
1	m	45	GLU	C-N	5.26	1.42	1.33
1	g	148	THR	CB-OG1	-5.26	1.35	1.43
1	N	112	GLN	CA-C	5.26	1.59	1.52
1	k	146	SER	N-CA	5.26	1.53	1.46
1	b	52	LEU	N-CA	5.26	1.52	1.46
1	d	100	ARG	CA-CB	5.26	1.61	1.53
1	N	154	ARG	CA-CB	5.25	1.63	1.53
1	6	137	GLY	C-N	5.25	1.40	1.33
1	k	194	ALA	CA-CB	5.25	1.62	1.53
1	l	209	ALA	CA-C	5.25	1.60	1.52
1	e	81	ASP	CA-CB	5.25	1.61	1.53
1	g	107	THR	N-CA	-5.25	1.39	1.46
1	M	24	VAL	N-CA	-5.25	1.39	1.46
1	M	228	ALA	CA-C	5.25	1.59	1.52
1	Q	81	ASP	C-N	5.25	1.41	1.33
1	b	79	GLU	CA-C	-5.25	1.46	1.52
1	j	23	TRP	CA-C	-5.25	1.46	1.52
1	S	194	ALA	N-CA	5.25	1.52	1.45
1	Y	51	ASP	N-CA	-5.25	1.40	1.46
1	Z	199	LYS	C-N	5.25	1.41	1.34
1	j	26	VAL	C-N	5.25	1.40	1.33
1	m	193	ASN	CA-C	5.25	1.60	1.52
1	h	55	MET	SD-CE	5.25	1.92	1.79
1	H	161	PHE	C-N	5.25	1.41	1.34
1	I	23	TRP	CD2-CE3	-5.25	1.31	1.40
1	L	83	LEU	CA-CB	5.25	1.61	1.53
1	d	109	SER	CA-C	5.25	1.59	1.52
1	5	121	ASN	CA-C	5.25	1.57	1.52
1	b	179	GLN	N-CA	5.25	1.52	1.46
1	g	114	GLN	CA-C	5.25	1.59	1.52
1	B	133	TRP	NE1-CE2	5.24	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	50	GLN	N-CA	5.24	1.52	1.46
1	T	154	ARG	CA-CB	5.24	1.61	1.53
1	c	17	PRO	C-O	-5.24	1.16	1.24
1	C	26	VAL	C-N	5.24	1.40	1.33
1	K	224	PRO	C-N	5.24	1.40	1.33
1	U	57	ASN	CA-C	5.24	1.59	1.52
1	V	220	GLY	CA-C	5.24	1.59	1.51
1	h	146	SER	CA-CB	5.24	1.61	1.53
1	K	27	VAL	CA-CB	-5.24	1.47	1.54
1	S	48	THR	CA-C	5.24	1.59	1.52
1	7	160	PRO	CA-C	-5.24	1.46	1.52
1	G	167	ARG	CD-NE	5.24	1.53	1.46
1	H	64	ALA	N-CA	-5.24	1.39	1.46
1	Z	90	PRO	N-CA	-5.24	1.40	1.47
1	D	36	VAL	CA-C	-5.23	1.46	1.52
1	G	196	PRO	CA-CB	5.23	1.62	1.53
1	K	21	ASN	CA-CB	5.23	1.61	1.53
1	V	24	VAL	C-N	5.23	1.41	1.34
1	d	122	PRO	CA-CB	-5.23	1.44	1.53
1	e	80	TRP	NE1-CE2	5.23	1.43	1.37
1	E	213	GLU	C-N	5.23	1.40	1.33
1	H	133	TRP	NE1-CE2	5.23	1.43	1.37
1	c	33	SER	C-N	5.23	1.39	1.34
1	f	181	VAL	C-N	5.23	1.40	1.33
1	U	26	VAL	C-N	5.23	1.40	1.33
1	k	62	HIS	CE1-NE2	5.23	1.37	1.32
1	U	118	MET	CA-CB	5.23	1.61	1.53
1	X	195	ASN	C-N	5.23	1.41	1.33
1	j	229	ARG	CA-C	5.23	1.59	1.52
1	d	48	THR	CA-C	-5.23	1.46	1.52
1	S	189	LEU	CA-C	5.23	1.59	1.52
1	V	164	TYR	C-N	5.23	1.39	1.34
1	b	225	GLY	N-CA	5.23	1.52	1.45
1	K	66	MET	C-N	5.22	1.40	1.33
1	Y	221	VAL	CA-C	-5.22	1.46	1.52
1	F	214	MET	CA-C	5.22	1.59	1.52
1	H	66	MET	C-N	5.22	1.40	1.33
1	U	7	GLN	CA-CB	5.22	1.61	1.53
1	g	128	GLU	C-N	5.22	1.40	1.33
1	G	202	LEU	CA-CB	5.22	1.61	1.53
1	O	224	PRO	CA-C	5.22	1.59	1.52
1	Q	105	ALA	N-CA	5.22	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	137	GLY	CA-C	5.22	1.59	1.51
1	7	128	GLU	C-N	5.22	1.40	1.33
1	D	184	TRP	CD2-CE3	-5.22	1.31	1.40
1	e	181	VAL	CA-C	5.22	1.59	1.52
1	G	86	VAL	N-CA	-5.22	1.39	1.46
1	N	90	PRO	CA-C	5.22	1.59	1.52
1	U	216	THR	C-N	5.22	1.40	1.33
1	6	97	ARG	C-N	5.22	1.41	1.33
1	f	201	ILE	CA-CB	5.22	1.61	1.54
1	G	22	ALA	N-CA	5.21	1.52	1.46
1	c	164	TYR	CA-CB	5.21	1.61	1.53
1	a	10	MET	CA-C	5.21	1.59	1.52
1	F	42	ALA	C-N	5.21	1.40	1.33
1	K	40	PHE	CA-C	5.21	1.59	1.52
1	L	188	THR	N-CA	5.21	1.52	1.46
1	M	110	THR	N-CA	5.21	1.52	1.45
1	5	84	HIS	CA-C	-5.21	1.46	1.52
1	m	142	VAL	N-CA	5.21	1.52	1.46
1	g	46	GLY	N-CA	-5.21	1.37	1.45
1	W	65	ALA	CA-CB	5.21	1.61	1.53
1	I	117	TRP	CD2-CE3	-5.21	1.31	1.40
1	J	100	ARG	N-CA	5.21	1.52	1.45
1	Q	30	LYS	N-CA	5.21	1.52	1.46
1	Z	99	PRO	CA-C	5.21	1.58	1.52
1	f	89	GLY	N-CA	5.21	1.51	1.44
1	f	109	SER	CA-CB	5.21	1.63	1.53
1	l	160	PRO	C-N	5.21	1.40	1.33
1	I	217	ALA	CA-CB	-5.21	1.45	1.53
1	c	30	LYS	CA-C	-5.21	1.46	1.52
1	l	59	VAL	CA-C	5.21	1.58	1.52
1	h	219	GLN	CA-C	-5.20	1.46	1.52
1	F	31	ALA	CA-CB	5.20	1.61	1.53
1	H	121	ASN	C-O	-5.20	1.17	1.24
1	6	122	PRO	CA-CB	5.20	1.63	1.53
1	7	125	PRO	N-CD	5.20	1.55	1.47
1	g	76	GLU	CA-C	-5.20	1.46	1.52
1	h	84	HIS	CD2-NE2	5.20	1.43	1.37
1	U	219	GLN	C-N	5.20	1.41	1.33
1	C	178	SER	CA-C	-5.20	1.46	1.52
1	J	171	THR	CA-C	5.20	1.59	1.52
1	N	86	VAL	CA-C	5.20	1.59	1.52
1	S	138	LEU	N-CA	-5.20	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	43	LEU	CA-CB	5.20	1.61	1.53
1	b	78	ALA	C-N	5.20	1.40	1.33
1	g	188	THR	C-N	5.20	1.40	1.33
1	C	6	LEU	N-CA	-5.20	1.40	1.46
1	W	28	GLU	CA-C	-5.20	1.46	1.52
1	P	76	GLU	C-O	-5.20	1.17	1.24
1	Q	120	HIS	CD2-NE2	5.20	1.43	1.37
1	U	86	VAL	N-CA	-5.20	1.39	1.46
1	V	58	THR	CA-CB	-5.20	1.45	1.53
1	Z	198	CYS	C-N	5.20	1.40	1.33
1	5	130	TYR	C-O	-5.20	1.18	1.24
1	5	137	GLY	CA-C	-5.20	1.46	1.52
1	E	131	LYS	CA-C	-5.19	1.46	1.52
1	S	34	PRO	CA-C	5.19	1.59	1.52
1	X	49	PRO	CA-CB	5.19	1.61	1.53
1	a	112	GLN	N-CA	-5.19	1.40	1.46
1	N	11	VAL	N-CA	5.19	1.51	1.46
1	N	231	LEU	CA-CB	5.19	1.63	1.53
1	B	37	ILE	CA-C	5.19	1.58	1.52
1	F	20	LEU	CA-C	-5.19	1.46	1.52
1	F	48	THR	CA-C	5.19	1.59	1.52
1	I	185	MET	CA-C	5.19	1.59	1.52
1	K	11	VAL	C-O	-5.19	1.18	1.24
1	L	16	SER	CA-C	-5.19	1.46	1.53
1	O	5	ASN	C-N	5.19	1.40	1.33
1	X	169	TYR	CZ-OH	5.19	1.49	1.38
1	b	153	ILE	CA-CB	-5.19	1.47	1.54
1	c	217	ALA	CA-CB	5.19	1.61	1.53
1	6	78	ALA	C-O	5.19	1.30	1.24
1	e	57	ASN	CA-CB	5.19	1.61	1.53
1	A	164	TYR	N-CA	-5.19	1.40	1.46
1	G	62	HIS	CA-C	5.19	1.59	1.53
1	m	99	PRO	N-CA	-5.19	1.40	1.47
1	d	25	LYS	C-N	5.19	1.40	1.33
1	A	181	VAL	C-N	5.19	1.41	1.34
1	B	110	THR	N-CA	-5.19	1.40	1.45
1	k	162	ARG	CD-NE	5.19	1.53	1.46
1	7	68	MET	C-N	5.19	1.40	1.33
1	F	197	ASP	C-O	-5.19	1.18	1.24
1	S	17	PRO	N-CA	-5.18	1.40	1.47
1	T	69	LEU	N-CA	-5.18	1.40	1.46
1	j	53	ASN	CA-C	5.18	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	80	TRP	CD1-NE1	5.18	1.48	1.37
1	g	123	PRO	CA-C	5.18	1.58	1.52
1	M	184	TRP	CA-C	5.18	1.59	1.52
1	O	203	LYS	N-CA	5.18	1.52	1.46
1	Y	175	GLU	CA-CB	5.18	1.62	1.53
1	a	28	GLU	C-N	5.18	1.40	1.33
1	6	194	ALA	C-N	5.18	1.42	1.33
1	i	30	LYS	CA-CB	5.18	1.62	1.53
1	j	153	ILE	C-O	-5.18	1.18	1.24
1	m	197	ASP	C-N	5.18	1.40	1.33
1	J	228	ALA	CA-C	5.18	1.59	1.53
1	Z	201	ILE	CA-C	-5.18	1.46	1.52
1	D	62	HIS	CG-ND1	-5.18	1.32	1.38
1	S	100	ARG	CD-NE	5.18	1.53	1.46
1	Z	88	ALA	CA-C	5.18	1.59	1.52
1	b	226	HIS	CG-CD2	-5.18	1.30	1.35
1	B	123	PRO	CA-CB	5.18	1.61	1.53
1	I	149	SER	CA-CB	5.18	1.61	1.53
1	M	212	GLU	C-N	5.18	1.41	1.34
1	X	225	GLY	CA-C	5.18	1.59	1.51
1	h	167	ARG	CZ-NH2	5.18	1.40	1.33
1	B	4	GLN	CA-C	-5.18	1.46	1.52
1	B	163	ASP	N-CA	-5.18	1.39	1.46
1	W	29	GLU	C-N	5.18	1.43	1.34
1	W	34	PRO	C-O	-5.18	1.17	1.24
1	5	136	LEU	N-CA	-5.18	1.40	1.46
1	b	218	CYS	C-N	5.18	1.41	1.33
1	c	158	LYS	CA-CB	5.18	1.60	1.53
1	7	226	HIS	CG-CD2	5.18	1.41	1.35
1	h	86	VAL	C-N	5.18	1.39	1.33
1	E	182	LYS	CA-CB	-5.17	1.45	1.53
1	L	92	GLU	CA-CB	5.17	1.61	1.53
1	M	173	ARG	C-N	5.17	1.40	1.33
1	S	185	MET	C-O	-5.17	1.18	1.24
1	S	199	LYS	C-N	5.17	1.40	1.33
1	Z	20	LEU	C-O	-5.17	1.18	1.24
1	5	113	GLU	N-CA	5.17	1.52	1.46
1	6	92	GLU	CA-CB	5.17	1.60	1.53
1	C	105	ALA	N-CA	-5.17	1.39	1.46
1	H	63	GLN	CB-CG	5.17	1.68	1.52
1	O	167	ARG	CD-NE	5.17	1.53	1.46
1	U	88	ALA	N-CA	-5.17	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	169	TYR	CA-CB	5.17	1.61	1.53
1	7	127	GLY	CA-C	5.17	1.58	1.52
1	E	108	THR	CA-CB	-5.17	1.44	1.53
1	U	224	PRO	N-CA	-5.17	1.41	1.46
1	e	59	VAL	C-N	5.17	1.41	1.33
1	H	210	THR	C-O	-5.17	1.17	1.23
1	J	62	HIS	CG-ND1	5.17	1.44	1.38
1	Z	222	GLY	C-O	-5.17	1.17	1.23
1	P	134	ILE	CB-CG1	5.17	1.63	1.53
1	j	42	ALA	N-CA	-5.17	1.39	1.46
1	f	105	ALA	C-N	5.17	1.40	1.33
1	L	93	PRO	N-CA	5.16	1.53	1.47
1	N	127	GLY	C-N	5.16	1.41	1.34
1	W	89	GLY	C-N	-5.16	1.28	1.33
1	G	201	ILE	CA-CB	5.16	1.60	1.54
1	c	113	GLU	C-O	5.16	1.30	1.24
1	D	180	GLU	C-N	5.16	1.40	1.33
1	I	79	GLU	CA-CB	5.16	1.61	1.53
1	f	70	LYS	C-O	-5.16	1.18	1.24
1	D	101	GLY	CA-C	-5.16	1.44	1.51
1	P	103	ASP	C-N	5.16	1.40	1.33
1	a	97	ARG	CD-NE	5.16	1.53	1.46
1	T	147	PRO	N-CA	-5.16	1.41	1.47
1	k	151	LEU	N-CA	-5.16	1.39	1.46
1	G	45	GLU	CA-CB	5.16	1.60	1.53
1	H	95	GLN	CA-C	5.16	1.59	1.53
1	L	133	TRP	CA-C	5.16	1.59	1.52
1	K	199	LYS	C-N	5.15	1.40	1.33
1	c	210	THR	C-O	-5.15	1.17	1.23
1	g	140	LYS	C-O	-5.15	1.18	1.24
1	A	201	ILE	C-O	-5.15	1.18	1.24
1	B	167	ARG	C-O	-5.15	1.17	1.24
1	l	43	LEU	C-O	-5.15	1.18	1.24
1	Z	202	LEU	CB-CG	5.15	1.63	1.53
1	7	152	ASP	N-CA	5.15	1.52	1.46
1	I	15	ILE	N-CA	5.15	1.52	1.46
1	P	211	LEU	CA-C	5.15	1.59	1.52
1	Z	151	LEU	CA-C	-5.15	1.46	1.52
1	a	173	ARG	CA-C	-5.15	1.46	1.52
1	6	167	ARG	CD-NE	5.15	1.53	1.46
1	e	190	LEU	CA-C	-5.15	1.46	1.52
1	H	115	ILE	CA-CB	-5.14	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	132	ARG	N-CA	5.14	1.52	1.46
1	A	62	HIS	CA-CB	5.14	1.62	1.53
1	h	80	TRP	CA-CB	5.14	1.61	1.53
1	U	18	ARG	CA-CB	5.14	1.61	1.53
1	i	98	GLU	CA-CB	5.14	1.61	1.52
1	i	138	LEU	CA-CB	5.14	1.61	1.53
1	k	130	TYR	CZ-OH	5.14	1.48	1.38
1	E	194	ALA	CA-CB	5.14	1.60	1.53
1	G	151	LEU	CA-CB	5.14	1.61	1.53
1	P	102	SER	CA-CB	5.14	1.61	1.53
1	l	177	ALA	N-CA	-5.14	1.39	1.45
1	h	80	TRP	CA-C	5.14	1.59	1.52
1	Q	226	HIS	CD2-NE2	5.14	1.43	1.37
1	C	195	ASN	CA-CB	5.14	1.60	1.53
1	F	123	PRO	N-CA	-5.14	1.41	1.46
1	X	16	SER	CA-CB	5.14	1.63	1.53
1	Z	169	TYR	CA-C	-5.14	1.45	1.52
1	j	84	HIS	CG-ND1	5.14	1.43	1.38
1	d	27	VAL	C-N	5.14	1.41	1.34
1	E	208	ALA	C-N	5.13	1.40	1.33
1	D	19	THR	C-N	5.13	1.40	1.33
1	G	31	ALA	N-CA	-5.13	1.39	1.46
1	N	69	LEU	CA-CB	5.13	1.61	1.53
1	k	119	THR	C-N	5.13	1.40	1.33
1	k	195	ASN	CA-CB	5.13	1.60	1.53
1	Y	34	PRO	CA-C	5.13	1.60	1.52
1	Z	123	PRO	C-N	5.13	1.37	1.33
1	5	31	ALA	C-O	5.13	1.29	1.24
1	a	167	ARG	CD-NE	5.13	1.53	1.46
1	7	203	LYS	CA-CB	5.13	1.61	1.53
1	A	71	GLU	C-O	-5.13	1.18	1.24
1	M	22	ALA	C-N	5.13	1.40	1.33
1	Q	88	ALA	N-CA	5.13	1.52	1.46
1	S	128	GLU	CA-CB	5.13	1.61	1.53
1	k	50	GLN	C-N	5.13	1.40	1.33
1	d	229	ARG	CA-C	5.13	1.58	1.52
1	F	169	TYR	C-O	-5.13	1.17	1.24
1	J	74	ASN	CA-C	-5.13	1.46	1.52
1	S	226	HIS	CG-CD2	5.13	1.41	1.35
1	c	154	ARG	NE-CZ	5.13	1.38	1.33
1	6	50	GLN	N-CA	-5.13	1.40	1.46
1	6	78	ALA	CA-CB	5.13	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	143	ARG	N-CA	-5.13	1.39	1.46
1	g	23	TRP	CA-CB	5.13	1.61	1.53
1	D	229	ARG	NE-CZ	5.12	1.38	1.33
1	K	84	HIS	C-N	-5.12	1.26	1.33
1	7	153	ILE	CA-CB	5.12	1.61	1.54
1	J	104	ILE	C-O	-5.12	1.18	1.24
1	J	163	ASP	CA-C	-5.12	1.46	1.52
1	K	161	PHE	CA-C	5.12	1.59	1.52
1	X	126	VAL	C-N	5.12	1.41	1.33
1	b	210	THR	CB-OG1	-5.12	1.35	1.43
1	6	204	ALA	C-N	5.12	1.40	1.33
1	d	133	TRP	C-O	5.12	1.30	1.24
1	d	229	ARG	N-CA	-5.12	1.40	1.46
1	g	19	THR	C-N	5.12	1.41	1.34
1	B	225	GLY	CA-C	-5.12	1.44	1.51
1	E	143	ARG	N-CA	-5.12	1.39	1.46
1	H	57	ASN	N-CA	5.12	1.52	1.46
1	I	101	GLY	C-O	-5.12	1.17	1.23
1	M	2	ILE	CA-CB	-5.12	1.48	1.54
1	W	130	TYR	N-CA	5.12	1.52	1.46
1	f	92	GLU	C-N	5.12	1.40	1.33
1	h	14	ALA	C-N	5.12	1.39	1.33
1	l	153	ILE	CA-C	5.12	1.58	1.52
1	Z	84	HIS	CG-CD2	-5.12	1.30	1.35
1	i	198	CYS	CA-CB	5.12	1.61	1.53
1	d	65	ALA	CA-CB	5.12	1.61	1.53
1	C	176	GLN	C-N	5.12	1.40	1.33
1	d	187	GLU	C-N	5.12	1.40	1.33
1	V	19	THR	N-CA	5.11	1.52	1.46
1	V	156	GLY	N-CA	5.11	1.51	1.44
1	Z	13	GLN	C-N	5.11	1.40	1.33
1	l	196	PRO	C-N	5.11	1.40	1.33
1	5	147	PRO	N-CA	-5.11	1.41	1.47
1	f	150	ILE	CA-C	5.11	1.60	1.52
1	h	96	MET	C-N	5.11	1.40	1.33
1	N	150	ILE	CA-C	-5.11	1.46	1.52
1	X	162	ARG	CD-NE	5.11	1.53	1.46
1	a	23	TRP	C-N	5.11	1.40	1.34
1	k	50	GLN	N-CA	-5.11	1.40	1.46
1	d	86	VAL	N-CA	-5.11	1.40	1.46
1	e	181	VAL	CA-CB	-5.11	1.48	1.54
1	G	116	GLY	C-O	-5.11	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	37	ILE	CB-CG1	5.11	1.63	1.53
1	J	209	ALA	C-O	-5.11	1.17	1.23
1	O	35	GLU	CA-CB	5.11	1.62	1.53
1	O	205	LEU	N-CA	-5.11	1.40	1.46
1	k	148	THR	CA-C	5.11	1.58	1.52
1	f	173	ARG	N-CA	-5.11	1.40	1.46
1	B	104	ILE	CB-CG1	5.11	1.63	1.53
1	D	139	ASN	C-N	-5.11	1.27	1.33
1	F	62	HIS	CE1-NE2	5.11	1.37	1.32
1	f	79	GLU	N-CA	5.11	1.52	1.46
1	f	45	GLU	N-CA	-5.10	1.39	1.46
1	T	93	PRO	C-N	5.10	1.39	1.33
1	6	221	VAL	N-CA	5.10	1.52	1.46
1	J	159	GLU	CA-CB	5.10	1.62	1.53
1	h	17	PRO	CA-CB	-5.10	1.46	1.53
1	S	226	HIS	CB-CG	-5.10	1.43	1.50
1	Y	1	PRO	N-CA	5.10	1.54	1.47
1	k	175	GLU	CA-C	5.10	1.59	1.53
1	H	87	HIS	CD2-NE2	5.10	1.43	1.37
1	X	1	PRO	N-CD	5.10	1.54	1.47
1	l	155	GLN	N-CA	5.10	1.52	1.46
1	M	164	TYR	N-CA	-5.10	1.40	1.46
1	i	168	PHE	CA-CB	5.10	1.61	1.53
1	l	98	GLU	CA-C	-5.10	1.47	1.52
1	C	47	ALA	CA-CB	5.09	1.61	1.53
1	F	84	HIS	CG-CD2	5.09	1.41	1.35
1	W	80	TRP	C-N	5.09	1.40	1.33
1	6	140	LYS	C-N	5.09	1.40	1.33
1	F	100	ARG	CD-NE	5.09	1.53	1.46
1	M	41	SER	C-N	5.09	1.40	1.33
1	Z	95	GLN	C-O	-5.09	1.17	1.23
1	Z	148	THR	CA-C	-5.09	1.46	1.52
1	5	4	GLN	CA-C	-5.09	1.46	1.52
1	k	63	GLN	C-N	5.09	1.40	1.33
1	l	35	GLU	N-CA	5.09	1.52	1.46
1	h	203	LYS	CA-C	5.09	1.59	1.52
1	A	165	VAL	N-CA	5.09	1.52	1.46
1	C	196	PRO	CA-CB	-5.09	1.46	1.53
1	G	141	ILE	N-CA	5.09	1.52	1.46
1	M	34	PRO	N-CD	-5.09	1.40	1.47
1	M	87	HIS	N-CA	-5.09	1.40	1.46
1	S	224	PRO	CA-C	5.09	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	183	ASN	CA-C	5.09	1.59	1.52
1	H	123	PRO	CA-CB	5.09	1.60	1.53
1	L	204	ALA	N-CA	5.09	1.52	1.46
1	V	170	LYS	C-O	-5.09	1.18	1.24
1	I	115	ILE	CA-C	5.09	1.59	1.52
1	i	27	VAL	CA-C	5.09	1.59	1.52
1	g	229	ARG	C-N	5.09	1.41	1.33
1	O	159	GLU	N-CA	5.08	1.53	1.46
1	L	1	PRO	N-CA	5.08	1.54	1.47
1	S	61	GLY	N-CA	5.08	1.52	1.45
1	Y	143	ARG	NE-CZ	5.08	1.38	1.33
1	m	62	HIS	ND1-CE1	-5.08	1.27	1.32
1	F	109	SER	CA-C	5.08	1.58	1.52
1	F	141	ILE	CA-CB	-5.08	1.47	1.54
1	H	165	VAL	C-O	-5.08	1.18	1.24
1	5	153	ILE	CA-C	5.08	1.58	1.52
1	j	23	TRP	N-CA	5.08	1.52	1.46
1	l	134	ILE	CA-CB	5.08	1.59	1.54
1	c	25	LYS	C-N	5.08	1.40	1.33
1	c	111	LEU	CA-CB	5.08	1.61	1.53
1	m	18	ARG	C-O	-5.08	1.18	1.24
1	f	133	TRP	CA-C	5.08	1.59	1.52
1	F	140	LYS	N-CA	-5.08	1.40	1.46
1	i	178	SER	CA-CB	5.08	1.62	1.53
1	g	105	ALA	CA-CB	5.08	1.61	1.53
1	F	62	HIS	CA-C	5.08	1.58	1.52
1	R	53	ASN	C-N	5.08	1.40	1.33
1	W	13	GLN	N-CA	-5.08	1.39	1.46
1	U	51	ASP	N-CA	5.08	1.52	1.46
1	W	137	GLY	N-CA	-5.08	1.38	1.45
1	5	17	PRO	CA-C	-5.08	1.44	1.52
1	j	59	VAL	C-N	-5.08	1.26	1.33
1	k	95	GLN	C-N	5.08	1.41	1.33
1	J	107	THR	CA-C	-5.07	1.46	1.53
1	U	14	ALA	N-CA	-5.07	1.39	1.46
1	6	114	GLN	CA-C	-5.07	1.46	1.52
1	g	136	LEU	C-N	5.07	1.40	1.33
1	C	7	GLN	CA-CB	5.07	1.62	1.53
1	E	153	ILE	C-O	-5.07	1.19	1.24
1	D	140	LYS	N-CA	-5.07	1.40	1.46
1	F	98	GLU	CA-C	-5.07	1.47	1.53
1	H	180	GLU	CA-CB	5.07	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	71	GLU	CA-CB	-5.07	1.45	1.53
1	F	20	LEU	C-O	-5.07	1.18	1.24
1	Z	77	ALA	CA-C	5.07	1.59	1.52
1	g	153	ILE	C-O	-5.07	1.17	1.24
1	D	190	LEU	CA-C	5.07	1.59	1.52
1	E	96	MET	CA-C	5.07	1.59	1.52
1	I	188	THR	N-CA	-5.07	1.39	1.46
1	O	84	HIS	C-N	-5.07	1.29	1.33
1	Q	25	LYS	CA-C	5.07	1.59	1.52
1	W	121	ASN	N-CA	5.07	1.54	1.45
1	b	102	SER	CA-CB	5.07	1.61	1.53
1	E	115	ILE	C-N	5.07	1.40	1.33
1	N	98	GLU	CA-C	5.07	1.58	1.53
1	V	117	TRP	NE1-CE2	-5.07	1.31	1.37
1	g	228	ALA	C-N	5.07	1.40	1.33
1	W	156	GLY	N-CA	5.06	1.51	1.44
1	X	32	PHE	CA-C	5.06	1.59	1.52
1	A	28	GLU	C-O	-5.06	1.18	1.24
1	O	93	PRO	CA-CB	-5.06	1.45	1.53
1	V	209	ALA	CA-C	5.06	1.59	1.52
1	X	128	GLU	N-CA	5.06	1.52	1.46
1	7	83	LEU	C-O	-5.06	1.17	1.24
1	7	130	TYR	CZ-OH	5.06	1.48	1.38
1	b	94	GLY	CA-C	-5.06	1.44	1.51
1	b	225	GLY	CA-C	-5.06	1.44	1.51
1	6	125	PRO	C-N	5.06	1.40	1.33
1	D	82	ARG	NE-CZ	5.06	1.38	1.33
1	E	51	ASP	CA-CB	-5.06	1.45	1.53
1	Y	184	TRP	CA-C	5.06	1.59	1.52
1	Z	132	ARG	CA-C	5.06	1.59	1.52
1	b	34	PRO	N-CA	5.06	1.54	1.47
1	i	25	LYS	CA-C	5.06	1.59	1.52
1	H	191	VAL	CA-CB	5.06	1.60	1.54
1	K	128	GLU	N-CA	5.06	1.52	1.46
1	e	1	PRO	C-N	5.06	1.40	1.33
1	W	11	VAL	N-CA	-5.06	1.40	1.46
1	d	54	THR	C-O	5.06	1.29	1.24
1	e	186	THR	C-N	5.06	1.40	1.33
1	a	179	GLN	N-CA	-5.05	1.40	1.46
1	D	72	THR	N-CA	5.05	1.52	1.46
1	F	96	MET	CA-C	-5.05	1.46	1.52
1	L	100	ARG	CA-CB	5.05	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	57	ASN	CA-C	5.05	1.59	1.52
1	a	173	ARG	CZ-NH2	-5.05	1.26	1.33
1	B	35	GLU	N-CA	-5.05	1.39	1.46
1	a	12	HIS	CB-CG	5.05	1.57	1.50
1	c	96	MET	CA-C	5.05	1.59	1.52
1	i	145	TYR	CA-CB	5.05	1.61	1.53
1	g	136	LEU	CA-CB	5.05	1.61	1.53
1	E	191	VAL	CA-CB	5.05	1.60	1.54
1	Q	198	CYS	CA-CB	5.05	1.61	1.53
1	5	67	GLN	C-O	5.05	1.30	1.24
1	6	190	LEU	CA-C	5.05	1.59	1.52
1	j	153	ILE	N-CA	-5.05	1.40	1.46
1	h	40	PHE	CA-C	5.05	1.59	1.52
1	B	102	SER	N-CA	-5.05	1.40	1.46
1	O	23	TRP	CZ2-CH2	5.05	1.46	1.37
1	U	215	MET	CA-C	5.05	1.59	1.52
1	X	45	GLU	CA-CB	5.05	1.61	1.53
1	G	145	TYR	CZ-OH	5.04	1.48	1.38
1	N	195	ASN	CA-CB	5.04	1.61	1.53
1	O	76	GLU	CA-CB	5.04	1.61	1.53
1	O	78	ALA	CA-C	-5.04	1.46	1.52
1	G	119	THR	CB-OG1	-5.04	1.35	1.43
1	O	204	ALA	C-N	5.04	1.40	1.33
1	a	62	HIS	CA-C	-5.04	1.46	1.53
1	a	84	HIS	ND1-CE1	5.04	1.37	1.32
1	b	108	THR	CA-C	5.04	1.59	1.52
1	B	53	ASN	C-O	-5.04	1.18	1.24
1	J	32	PHE	CG-CD2	5.04	1.49	1.38
1	K	227	LYS	N-CA	-5.04	1.39	1.46
1	V	100	ARG	CD-NE	5.04	1.53	1.46
1	Z	187	GLU	CA-C	5.04	1.59	1.52
1	k	163	ASP	C-N	5.04	1.40	1.33
1	g	199	LYS	C-N	5.04	1.40	1.33
1	B	2	ILE	C-O	-5.04	1.18	1.24
1	J	3	VAL	CA-C	5.04	1.58	1.52
1	b	197	ASP	CA-CB	5.04	1.61	1.53
1	F	16	SER	CA-C	5.04	1.58	1.53
1	J	25	LYS	C-N	5.04	1.40	1.33
1	5	41	SER	N-CA	-5.04	1.40	1.46
1	h	12	HIS	N-CA	5.04	1.52	1.46
1	E	23	TRP	NE1-CE2	5.03	1.43	1.37
1	F	20	LEU	N-CA	-5.03	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	68	MET	N-CA	-5.03	1.40	1.46
1	C	162	ARG	NE-CZ	5.03	1.38	1.33
1	D	102	SER	C-O	-5.03	1.18	1.24
1	P	191	VAL	CA-CB	-5.03	1.48	1.54
1	E	64	ALA	CA-C	5.03	1.59	1.52
1	Y	128	GLU	N-CA	-5.03	1.40	1.46
1	b	107	THR	C-N	5.03	1.40	1.33
1	c	124	ILE	CA-C	-5.03	1.49	1.52
1	L	18	ARG	N-CA	-5.03	1.40	1.46
1	L	125	PRO	CA-C	-5.03	1.45	1.52
1	N	120	HIS	ND1-CE1	5.03	1.37	1.32
1	O	132	ARG	CA-C	5.03	1.59	1.52
1	j	191	VAL	CA-CB	-5.03	1.48	1.54
1	N	107	THR	CA-C	5.03	1.59	1.52
1	j	55	MET	CA-C	-5.03	1.46	1.52
1	C	218	CYS	N-CA	5.03	1.52	1.46
1	K	31	ALA	C-O	5.03	1.30	1.24
1	M	170	LYS	CA-CB	5.03	1.61	1.53
1	T	63	GLN	N-CA	-5.03	1.39	1.46
1	Y	25	LYS	CA-CB	5.03	1.61	1.53
1	c	201	ILE	C-N	-5.03	1.27	1.33
1	F	122	PRO	CA-CB	-5.02	1.44	1.53
1	h	58	THR	N-CA	5.02	1.52	1.46
1	A	51	ASP	N-CA	5.02	1.52	1.46
1	E	53	ASN	N-CA	5.02	1.52	1.46
1	7	72	THR	CA-C	-5.02	1.46	1.52
1	S	217	ALA	CA-C	5.02	1.59	1.52
1	B	68	MET	N-CA	5.02	1.52	1.46
1	H	62	HIS	CA-CB	5.02	1.60	1.53
1	K	58	THR	C-N	5.02	1.40	1.33
1	U	62	HIS	CE1-NE2	5.02	1.37	1.32
1	X	133	TRP	N-CA	-5.02	1.40	1.46
1	d	201	ILE	N-CA	-5.02	1.40	1.46
1	h	179	GLN	CA-CB	5.02	1.61	1.53
1	P	62	HIS	CA-CB	5.02	1.61	1.53
1	7	112	GLN	CA-C	5.02	1.59	1.52
1	C	12	HIS	ND1-CE1	5.01	1.37	1.32
1	L	208	ALA	C-O	5.01	1.30	1.24
1	P	111	LEU	CB-CG	5.01	1.63	1.53
1	a	129	ILE	C-N	5.01	1.40	1.33
1	6	100	ARG	CA-C	-5.01	1.46	1.52
1	j	97	ARG	CD-NE	5.01	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	100	ARG	C-N	5.01	1.41	1.33
1	K	183	ASN	CA-CB	5.01	1.61	1.53
1	a	217	ALA	N-CA	-5.01	1.39	1.46
1	L	181	VAL	C-N	5.01	1.40	1.33
1	M	138	LEU	C-N	5.01	1.40	1.34
1	U	36	VAL	N-CA	-5.01	1.39	1.46
1	6	86	VAL	C-O	-5.01	1.18	1.24
1	l	145	TYR	CZ-OH	5.01	1.48	1.38
1	B	208	ALA	CA-CB	5.01	1.61	1.53
1	H	102	SER	CA-C	-5.01	1.46	1.52
1	M	211	LEU	CB-CG	5.01	1.63	1.53
1	R	71	GLU	C-N	5.01	1.40	1.34
1	g	145	TYR	CZ-OH	5.01	1.48	1.38
1	R	108	THR	N-CA	5.01	1.52	1.46
1	A	147	PRO	C-N	5.01	1.40	1.33
1	C	25	LYS	CA-C	-5.01	1.46	1.52
1	K	86	VAL	CA-CB	5.01	1.59	1.54
1	M	69	LEU	C-O	-5.01	1.18	1.24
1	m	75	GLU	CA-C	5.01	1.59	1.52
1	h	148	THR	CA-C	5.01	1.58	1.52
1	J	160	PRO	CA-C	5.00	1.58	1.52
1	F	54	THR	CB-OG1	-5.00	1.35	1.43
1	H	29	GLU	N-CA	-5.00	1.40	1.46
1	N	81	ASP	CA-C	5.00	1.59	1.52
1	V	110	THR	N-CA	5.00	1.52	1.45
1	k	7	GLN	CA-C	5.00	1.59	1.52
1	m	53	ASN	C-O	-5.00	1.17	1.24

All (6177) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	195	ASN	CA-CB-CG	16.10	128.70	112.60
1	G	123	PRO	CA-C-N	-15.26	111.60	122.59
1	G	123	PRO	C-N-CA	-15.26	111.60	122.59
1	T	73	ILE	N-CA-C	14.00	123.86	110.42
1	5	86	VAL	CB-CA-C	13.40	127.17	110.96
1	a	124	ILE	O-C-N	-13.39	111.01	121.46
1	J	197	ASP	N-CA-C	12.98	124.96	111.07
1	I	223	GLY	CA-C-N	12.86	132.55	119.56
1	I	223	GLY	C-N-CA	12.86	132.55	119.56
1	E	206	GLY	CA-C-N	12.49	132.06	119.82
1	E	206	GLY	C-N-CA	12.49	132.06	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	37	ILE	N-CA-CB	12.49	120.20	110.45
1	O	181	VAL	N-CA-C	12.39	124.74	110.62
1	S	183	ASN	CA-CB-CG	12.30	124.90	112.60
1	b	226	HIS	CA-CB-CG	12.09	125.89	113.80
1	g	163	ASP	CA-CB-CG	-12.02	100.58	112.60
1	k	36	VAL	CA-C-N	11.98	129.91	120.33
1	k	36	VAL	C-N-CA	11.98	129.91	120.33
1	5	62	HIS	CB-CG-CD2	-11.96	115.66	131.20
1	e	182	LYS	N-CA-CB	11.91	127.63	110.12
1	H	7	GLN	OE1-CD-NE2	-11.81	110.79	122.60
1	D	84	HIS	CA-C-N	11.71	131.83	119.89
1	D	84	HIS	C-N-CA	11.71	131.83	119.89
1	e	36	VAL	CA-C-N	11.67	129.67	120.33
1	e	36	VAL	C-N-CA	11.67	129.67	120.33
1	S	181	VAL	N-CA-C	11.57	122.42	110.62
1	f	141	ILE	N-CA-CB	11.55	126.24	110.54
1	f	178	SER	N-CA-C	11.52	125.53	110.43
1	g	141	ILE	CA-C-N	11.46	135.00	120.56
1	g	141	ILE	C-N-CA	11.46	135.00	120.56
1	a	179	GLN	OE1-CD-NE2	-11.44	111.16	122.60
1	M	143	ARG	NE-CZ-NH2	-11.44	108.91	119.20
1	R	161	PHE	CA-C-N	11.33	135.90	120.38
1	R	161	PHE	C-N-CA	11.33	135.90	120.38
1	J	124	ILE	CA-C-O	-11.21	114.11	119.94
1	e	169	TYR	N-CA-C	11.07	123.35	111.28
1	6	82	ARG	NE-CZ-NH2	-10.94	109.36	119.20
1	U	37	ILE	O-C-N	-10.92	113.43	120.42
1	M	37	ILE	O-C-N	-10.83	113.49	120.42
1	h	156	GLY	O-C-N	-10.66	111.11	121.77
1	C	78	ALA	N-CA-C	10.65	122.47	111.07
1	U	122	PRO	CA-C-N	10.64	130.74	119.89
1	U	122	PRO	C-N-CA	10.64	130.74	119.89
1	Q	64	ALA	CA-C-O	10.58	131.60	120.70
1	m	198	CYS	CA-C-N	10.57	134.44	120.28
1	m	198	CYS	C-N-CA	10.57	134.44	120.28
1	c	139	ASN	CA-CB-CG	-10.57	102.03	112.60
1	Q	152	ASP	CA-C-N	10.56	134.65	120.50
1	Q	152	ASP	C-N-CA	10.56	134.65	120.50
1	L	139	ASN	CA-C-N	10.51	134.36	120.28
1	L	139	ASN	C-N-CA	10.51	134.36	120.28
1	l	26	VAL	CA-C-O	10.50	132.30	121.17
1	g	37	ILE	O-C-N	-10.49	113.71	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	96	MET	N-CA-C	10.48	122.28	111.07
1	W	116	GLY	O-C-N	-10.42	112.06	122.17
1	H	62	HIS	CA-C-N	10.42	134.24	120.28
1	H	62	HIS	C-N-CA	10.42	134.24	120.28
1	k	114	GLN	N-CA-C	10.42	122.64	111.28
1	k	16	SER	N-CA-C	10.38	122.73	109.65
1	T	29	GLU	N-CA-C	10.34	122.63	111.36
1	G	137	GLY	O-C-N	-10.31	111.31	122.24
1	P	158	LYS	O-C-N	-10.26	112.31	121.85
1	Y	29	GLU	N-CA-C	10.24	122.20	111.14
1	5	209	ALA	N-CA-C	10.23	123.53	110.24
1	J	6	LEU	N-CA-C	10.20	122.16	111.14
1	K	197	ASP	CA-CB-CG	-10.19	102.41	112.60
1	F	140	LYS	N-CA-C	10.18	122.38	111.28
1	V	34	PRO	CA-C-N	10.16	134.30	120.38
1	V	34	PRO	C-N-CA	10.16	134.30	120.38
1	Y	197	ASP	CA-CB-CG	-10.15	102.45	112.60
1	H	229	ARG	N-CA-C	10.12	124.51	110.24
1	P	25	LYS	N-CA-C	10.04	123.16	111.11
1	A	74	ASN	CA-CB-CG	-10.03	102.57	112.60
1	Z	150	ILE	N-CA-C	10.02	123.58	111.05
1	X	135	ILE	O-C-N	-10.01	112.17	121.87
1	X	18	ARG	NE-CZ-NH1	10.00	131.50	121.50
1	R	37	ILE	O-C-N	-9.90	114.08	120.42
1	D	163	ASP	CA-CB-CG	-9.88	102.72	112.60
1	7	130	TYR	CA-C-N	9.86	133.88	120.38
1	7	130	TYR	C-N-CA	9.86	133.88	120.38
1	7	183	ASN	CA-CB-CG	-9.86	102.74	112.60
1	R	53	ASN	CA-CB-CG	-9.83	102.77	112.60
1	E	198	CYS	CA-C-N	9.81	133.79	120.54
1	E	198	CYS	C-N-CA	9.81	133.79	120.54
1	7	226	HIS	CA-CB-CG	9.81	123.61	113.80
1	Z	33	SER	N-CA-C	9.79	123.45	109.84
1	f	161	PHE	CA-CB-CG	-9.77	104.03	113.80
1	F	11	VAL	CA-C-O	9.77	130.71	120.36
1	I	200	THR	N-CA-C	9.76	121.92	111.28
1	I	5	ASN	CA-C-N	9.75	133.34	120.28
1	I	5	ASN	C-N-CA	9.75	133.34	120.28
1	H	102	SER	CA-C-N	9.74	133.34	120.28
1	H	102	SER	C-N-CA	9.74	133.34	120.28
1	M	124	ILE	O-C-N	-9.74	110.00	121.10
1	K	51	ASP	CA-C-N	9.73	134.11	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	51	ASP	C-N-CA	9.73	134.11	120.29
1	g	126	VAL	O-C-N	-9.71	112.45	121.87
1	k	97	ARG	NE-CZ-NH2	-9.71	110.47	119.20
1	B	96	MET	CG-SD-CE	-9.70	79.55	100.90
1	i	31	ALA	N-CA-C	9.68	125.08	111.52
1	J	168	PHE	N-CA-C	9.68	122.73	111.11
1	m	146	SER	N-CA-C	9.68	121.93	109.64
1	H	163	ASP	CA-C-N	9.65	132.99	120.44
1	H	163	ASP	C-N-CA	9.65	132.99	120.44
1	g	36	VAL	CA-C-N	9.65	128.05	120.33
1	g	36	VAL	C-N-CA	9.65	128.05	120.33
1	c	35	GLU	CA-C-N	9.63	133.66	120.46
1	c	35	GLU	C-N-CA	9.63	133.66	120.46
1	Z	9	GLN	OE1-CD-NE2	-9.62	112.98	122.60
1	d	81	ASP	CA-C-N	9.61	132.93	120.44
1	d	81	ASP	C-N-CA	9.61	132.93	120.44
1	a	182	LYS	CA-C-N	9.61	132.93	120.44
1	a	182	LYS	C-N-CA	9.61	132.93	120.44
1	J	104	ILE	N-CA-C	9.60	121.57	110.62
1	C	70	LYS	CA-C-N	9.60	133.15	120.28
1	C	70	LYS	C-N-CA	9.60	133.15	120.28
1	V	126	VAL	N-CA-C	9.57	120.39	110.72
1	B	18	ARG	NE-CZ-NH2	-9.57	110.59	119.20
1	N	53	ASN	N-CA-CB	9.55	123.86	110.01
1	f	21	ASN	CA-C-N	9.55	132.85	120.44
1	f	21	ASN	C-N-CA	9.55	132.85	120.44
1	I	150	ILE	CA-C-N	9.54	133.07	120.28
1	I	150	ILE	C-N-CA	9.54	133.07	120.28
1	V	4	GLN	N-CA-C	9.54	126.68	114.56
1	6	53	ASN	CA-CB-CG	-9.53	103.07	112.60
1	d	103	ASP	O-C-N	-9.53	111.29	122.15
1	C	25	LYS	N-CA-C	9.52	121.74	111.36
1	B	165	VAL	O-C-N	-9.52	112.26	121.87
1	h	226	HIS	CA-CB-CG	-9.51	104.29	113.80
1	6	183	ASN	OD1-CG-ND2	-9.51	113.09	122.60
1	J	153	ILE	N-CA-C	9.50	121.84	109.58
1	E	170	LYS	CA-C-N	9.50	133.01	120.28
1	E	170	LYS	C-N-CA	9.50	133.01	120.28
1	P	89	GLY	O-C-N	-9.46	112.31	121.77
1	Q	219	GLN	N-CA-C	-9.46	101.75	113.28
1	X	69	LEU	N-CA-C	9.45	122.78	111.82
1	j	121	ASN	CA-CB-CG	-9.44	103.16	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	172	LEU	CA-C-N	9.44	132.71	120.44
1	m	172	LEU	C-N-CA	9.44	132.71	120.44
1	6	193	ASN	CA-CB-CG	-9.43	103.17	112.60
1	j	15	ILE	N-CA-C	9.43	121.74	109.58
1	X	98	GLU	CA-C-N	9.42	129.51	119.90
1	X	98	GLU	C-N-CA	9.42	129.51	119.90
1	W	74	ASN	OD1-CG-ND2	-9.39	113.21	122.60
1	B	207	PRO	CA-C-N	9.38	132.85	120.28
1	B	207	PRO	C-N-CA	9.38	132.85	120.28
1	S	206	GLY	O-C-N	-9.38	112.39	121.77
1	J	204	ALA	N-CA-C	9.37	121.10	111.07
1	X	18	ARG	NE-CZ-NH2	-9.36	110.78	119.20
1	j	196	PRO	CA-C-N	9.36	133.16	120.44
1	j	196	PRO	C-N-CA	9.36	133.16	120.44
1	R	182	LYS	CA-C-N	9.35	133.16	120.44
1	R	182	LYS	C-N-CA	9.35	133.16	120.44
1	Q	111	LEU	N-CA-C	9.34	121.06	111.07
1	K	26	VAL	N-CA-CB	9.30	121.44	110.55
1	O	110	THR	CA-C-N	9.31	132.93	120.65
1	O	110	THR	C-N-CA	9.31	132.93	120.65
1	j	178	SER	CA-C-N	9.28	132.51	120.44
1	j	178	SER	C-N-CA	9.28	132.51	120.44
1	Y	97	ARG	NE-CZ-NH2	-9.28	110.85	119.20
1	R	161	PHE	CA-CB-CG	-9.26	104.54	113.80
1	M	167	ARG	N-CA-C	9.26	122.56	111.82
1	Q	226	HIS	CA-CB-CG	9.26	123.06	113.80
1	S	36	VAL	CA-C-N	9.24	126.06	120.24
1	S	36	VAL	C-N-CA	9.24	126.06	120.24
1	X	197	ASP	CA-C-N	9.24	132.45	120.44
1	X	197	ASP	C-N-CA	9.24	132.45	120.44
1	X	124	ILE	O-C-N	-9.23	110.57	121.10
1	H	182	LYS	N-CA-C	9.23	121.34	111.28
1	7	30	LYS	CA-C-N	9.22	133.02	120.38
1	7	30	LYS	C-N-CA	9.22	133.02	120.38
1	d	62	HIS	ND1-CG-CD2	9.21	115.31	106.10
1	O	26	VAL	N-CA-C	9.21	120.03	110.36
1	h	42	ALA	CA-C-N	9.20	132.96	120.44
1	h	42	ALA	C-N-CA	9.20	132.96	120.44
1	6	84	HIS	CB-CG-CD2	-9.20	119.24	131.20
1	X	191	VAL	N-CA-C	9.20	120.01	110.72
1	P	34	PRO	CA-C-N	9.17	133.48	120.28
1	P	34	PRO	C-N-CA	9.17	133.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	112	GLN	N-CA-C	9.16	122.11	111.11
1	A	200	THR	N-CA-C	9.16	122.10	111.11
1	F	11	VAL	O-C-N	-9.16	113.31	123.20
1	k	226	HIS	CE1-NE2-CD2	-9.15	99.84	109.00
1	X	102	SER	N-CA-C	9.14	122.22	111.71
1	Y	126	VAL	O-C-N	-9.13	112.42	121.83
1	m	2	ILE	N-CA-CB	9.11	121.39	111.00
1	O	95	GLN	OE1-CD-NE2	-9.10	113.50	122.60
1	m	51	ASP	CA-CB-CG	9.10	121.70	112.60
1	Y	124	ILE	CA-C-O	-9.09	114.70	120.88
1	b	88	ALA	O-C-N	-9.08	113.27	122.99
1	c	37	ILE	CA-C-N	9.08	129.67	119.32
1	c	37	ILE	C-N-CA	9.08	129.67	119.32
1	H	163	ASP	CA-CB-CG	-9.08	103.52	112.60
1	V	81	ASP	N-CA-CB	-9.07	96.79	110.12
1	C	67	GLN	OE1-CD-NE2	-9.06	113.54	122.60
1	B	182	LYS	O-C-N	-9.05	112.52	122.12
1	N	96	MET	O-C-N	-9.05	111.85	122.89
1	W	135	ILE	O-C-N	-9.05	112.73	121.87
1	f	63	GLN	N-CA-C	9.03	123.56	112.54
1	N	134	ILE	O-C-N	-9.02	112.53	121.83
1	g	101	GLY	CA-C-N	9.02	133.26	120.28
1	g	101	GLY	C-N-CA	9.02	133.26	120.28
1	7	191	VAL	CA-C-N	9.01	132.35	120.28
1	7	191	VAL	C-N-CA	9.01	132.35	120.28
1	T	41	SER	N-CA-CB	8.99	123.34	110.12
1	N	36	VAL	CA-C-N	8.98	125.90	120.24
1	N	36	VAL	C-N-CA	8.98	125.90	120.24
1	J	117	TRP	N-CA-C	8.98	120.67	111.07
1	G	178	SER	O-C-N	-8.97	112.26	122.75
1	W	100	ARG	NE-CZ-NH2	8.96	127.27	119.20
1	I	162	ARG	N-CA-C	8.96	122.17	111.33
1	i	2	ILE	O-C-N	-8.95	113.42	123.00
1	i	112	GLN	N-CA-C	8.94	121.03	111.28
1	Z	112	GLN	OE1-CD-NE2	-8.94	113.66	122.60
1	N	89	GLY	CA-C-N	8.94	131.01	119.84
1	N	89	GLY	C-N-CA	8.94	131.01	119.84
1	S	6	LEU	N-CA-C	8.94	121.02	111.28
1	k	222	GLY	CA-C-N	8.94	135.91	121.87
1	k	222	GLY	C-N-CA	8.94	135.91	121.87
1	I	133	TRP	CB-CG-CD2	-8.94	114.29	126.80
1	i	82	ARG	CA-C-N	8.93	132.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	82	ARG	C-N-CA	8.93	132.25	120.28
1	H	120	HIS	CA-CB-CG	8.91	122.71	113.80
1	f	214	MET	N-CA-C	8.90	121.06	111.36
1	6	50	GLN	OE1-CD-NE2	-8.88	113.72	122.60
1	7	51	ASP	CA-CB-CG	-8.86	103.74	112.60
1	N	28	GLU	N-CA-C	8.86	120.63	110.97
1	K	81	ASP	N-CA-C	8.86	121.90	111.71
1	f	188	THR	CA-C-N	8.86	132.51	120.38
1	f	188	THR	C-N-CA	8.86	132.51	120.38
1	W	88	ALA	N-CA-C	8.85	120.70	111.14
1	U	142	VAL	O-C-N	-8.85	113.24	121.91
1	C	119	THR	CA-C-N	8.85	134.11	120.75
1	C	119	THR	C-N-CA	8.85	134.11	120.75
1	b	159	GLU	CA-C-N	8.83	130.88	119.84
1	b	159	GLU	C-N-CA	8.83	130.88	119.84
1	6	214	MET	CA-C-N	8.83	134.73	120.60
1	6	214	MET	C-N-CA	8.83	134.73	120.60
1	f	57	ASN	CA-CB-CG	-8.83	103.77	112.60
1	G	227	LYS	CA-C-O	8.82	130.03	120.24
1	F	118	MET	N-CA-C	8.81	120.88	111.28
1	G	144	MET	CA-C-O	8.81	129.76	120.42
1	Z	18	ARG	NE-CZ-NH2	-8.80	111.28	119.20
1	N	37	ILE	N-CA-CB	8.79	116.04	110.50
1	Y	50	GLN	OE1-CD-NE2	-8.79	113.81	122.60
1	B	228	ALA	N-CA-C	8.79	123.06	109.96
1	C	68	MET	O-C-N	-8.79	112.81	122.12
1	P	89	GLY	CA-C-N	8.78	129.32	119.92
1	P	89	GLY	C-N-CA	8.78	129.32	119.92
1	b	120	HIS	CA-CB-CG	-8.78	105.02	113.80
1	W	73	ILE	N-CA-C	8.78	119.58	110.72
1	I	230	VAL	N-CA-C	8.77	122.05	109.51
1	M	131	LYS	N-CA-C	8.77	121.64	111.11
1	b	48	THR	CA-C-N	8.77	129.65	119.47
1	b	48	THR	C-N-CA	8.77	129.65	119.47
1	f	66	MET	N-CA-C	8.77	120.84	111.28
1	6	194	ALA	N-CA-C	8.77	121.64	110.24
1	B	223	GLY	CA-C-N	8.77	130.80	119.84
1	B	223	GLY	C-N-CA	8.77	130.80	119.84
1	O	81	ASP	CA-CB-CG	-8.76	103.84	112.60
1	L	224	PRO	N-CA-C	8.76	124.52	111.03
1	N	133	TRP	CB-CG-CD1	8.76	140.04	126.90
1	C	195	ASN	N-CA-C	8.75	119.66	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	73	ILE	N-CA-C	8.74	120.53	111.00
1	X	121	ASN	OD1-CG-ND2	-8.74	113.86	122.60
1	P	101	GLY	N-CA-C	8.73	123.48	112.83
1	W	47	ALA	O-C-N	-8.72	113.17	122.94
1	m	5	ASN	N-CA-C	-8.72	101.56	112.72
1	E	152	ASP	CA-CB-CG	-8.71	103.89	112.60
1	M	111	LEU	N-CA-C	8.71	120.77	111.28
1	C	195	ASN	CA-C-O	-8.70	111.58	120.02
1	X	131	LYS	CA-C-N	8.70	131.75	120.44
1	X	131	LYS	C-N-CA	8.70	131.75	120.44
1	Y	162	ARG	N-CA-C	8.69	121.85	111.33
1	f	83	LEU	N-CA-CB	-8.69	96.81	110.46
1	j	223	GLY	O-C-N	-8.69	113.08	121.77
1	e	39	MET	N-CA-C	8.69	120.36	111.07
1	k	112	GLN	CA-C-N	8.68	132.25	120.44
1	k	112	GLN	C-N-CA	8.68	132.25	120.44
1	W	87	HIS	CA-C-N	8.68	132.24	120.44
1	W	87	HIS	C-N-CA	8.68	132.24	120.44
1	d	121	ASN	OD1-CG-ND2	-8.67	113.93	122.60
1	5	170	LYS	N-CA-C	8.67	121.88	111.82
1	B	139	ASN	OD1-CG-ND2	-8.67	113.93	122.60
1	k	50	GLN	N-CA-C	8.67	120.73	111.28
1	M	129	ILE	N-CA-C	8.66	118.73	110.42
1	B	50	GLN	OE1-CD-NE2	-8.65	113.95	122.60
1	B	161	PHE	CA-CB-CG	-8.65	105.14	113.80
1	O	84	HIS	O-C-N	-8.65	117.55	121.53
1	Y	199	LYS	O-C-N	-8.65	113.09	122.09
1	l	42	ALA	CA-C-N	8.65	131.87	120.28
1	l	42	ALA	C-N-CA	8.65	131.87	120.28
1	L	173	ARG	NE-CZ-NH2	-8.64	111.43	119.20
1	J	12	HIS	CA-CB-CG	8.63	122.43	113.80
1	5	170	LYS	CA-C-N	8.62	131.65	120.44
1	5	170	LYS	C-N-CA	8.62	131.65	120.44
1	m	51	ASP	N-CA-C	8.62	120.29	111.07
1	f	203	LYS	N-CA-C	8.61	120.44	111.14
1	h	14	ALA	O-C-N	-8.61	112.70	122.86
1	g	71	GLU	CA-C-N	8.60	132.14	120.44
1	g	71	GLU	C-N-CA	8.60	132.14	120.44
1	U	5	ASN	OD1-CG-ND2	-8.60	114.00	122.60
1	7	169	TYR	N-CA-C	8.60	122.87	112.38
1	Y	134	ILE	CA-C-N	8.59	131.68	120.60
1	Y	134	ILE	C-N-CA	8.59	131.68	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	190	LEU	N-CA-C	8.58	121.71	111.33
1	e	37	ILE	CA-C-N	8.57	128.27	119.19
1	e	37	ILE	C-N-CA	8.57	128.27	119.19
1	S	116	GLY	N-CA-C	8.56	123.28	112.83
1	O	85	PRO	N-CA-C	-8.56	103.72	114.68
1	j	115	ILE	CB-CA-C	-8.56	100.41	112.22
1	J	28	GLU	N-CA-C	8.55	120.38	111.14
1	a	186	THR	CA-C-O	8.55	129.51	120.70
1	e	123	PRO	CA-C-N	8.55	132.60	122.85
1	e	123	PRO	C-N-CA	8.55	132.60	122.85
1	k	227	LYS	CA-C-O	8.55	129.88	119.79
1	m	13	GLN	CA-C-N	8.55	132.85	120.71
1	m	13	GLN	C-N-CA	8.55	132.85	120.71
1	E	103	ASP	CA-C-N	8.54	132.54	120.42
1	E	103	ASP	C-N-CA	8.54	132.54	120.42
1	F	86	VAL	O-C-N	-8.54	113.85	123.07
1	j	184	TRP	CB-CG-CD2	-8.53	114.86	126.80
1	D	141	ILE	N-CA-C	8.53	119.31	110.62
1	R	205	LEU	CA-C-O	8.53	129.85	119.79
1	L	190	LEU	CA-C-O	8.52	129.95	121.00
1	R	152	ASP	N-CA-C	8.52	120.19	111.07
1	R	21	ASN	CA-CB-CG	-8.52	104.08	112.60
1	h	82	ARG	NE-CZ-NH1	8.51	130.01	121.50
1	E	208	ALA	N-CA-CB	-8.51	97.90	110.49
1	Q	208	ALA	CA-C-N	8.51	132.79	120.71
1	Q	208	ALA	C-N-CA	8.51	132.79	120.71
1	Y	119	THR	N-CA-CB	8.50	122.88	110.47
1	7	163	ASP	CA-CB-CG	8.50	121.10	112.60
1	Y	218	CYS	N-CA-C	8.50	123.11	112.24
1	I	112	GLN	CA-C-O	-8.49	111.55	120.55
1	L	141	ILE	N-CA-C	-8.49	102.55	110.53
1	O	51	ASP	CA-CB-CG	-8.49	104.11	112.60
1	j	56	LEU	N-CA-C	8.49	120.61	111.36
1	6	10	MET	N-CA-C	8.48	122.53	110.23
1	l	62	HIS	CB-CG-ND1	-8.48	109.98	122.70
1	Y	223	GLY	CA-C-N	8.47	128.20	119.56
1	Y	223	GLY	C-N-CA	8.47	128.20	119.56
1	X	162	ARG	NH1-CZ-NH2	-8.47	108.29	119.30
1	V	16	SER	N-CA-C	8.47	119.98	109.57
1	B	77	ALA	O-C-N	-8.46	113.15	122.12
1	I	178	SER	CA-C-N	8.46	131.62	120.28
1	I	178	SER	C-N-CA	8.46	131.62	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	177	ALA	N-CA-C	8.46	121.85	110.35
1	f	197	ASP	N-CA-C	8.46	121.43	111.71
1	M	153	ILE	O-C-N	-8.45	113.67	122.63
1	K	37	ILE	O-C-N	8.45	125.83	120.42
1	6	5	ASN	CA-C-N	8.44	134.07	122.34
1	6	5	ASN	C-N-CA	8.44	134.07	122.34
1	L	114	GLN	CA-C-N	8.43	132.01	120.46
1	L	114	GLN	C-N-CA	8.43	132.01	120.46
1	X	195	ASN	CA-CB-CG	-8.42	104.18	112.60
1	T	115	ILE	CA-C-N	8.42	129.32	119.98
1	T	115	ILE	C-N-CA	8.42	129.32	119.98
1	Z	142	VAL	CA-C-O	8.42	129.76	119.58
1	X	37	ILE	O-C-N	-8.41	111.51	121.10
1	W	130	TYR	N-CA-C	8.41	120.53	111.36
1	5	226	HIS	CE1-NE2-CD2	-8.41	100.59	109.00
1	b	87	HIS	CA-C-O	8.41	131.53	122.03
1	m	74	ASN	CA-CB-CG	-8.41	104.19	112.60
1	T	77	ALA	N-CA-C	8.40	121.50	111.33
1	Z	184	TRP	CA-C-N	8.40	131.36	120.44
1	Z	184	TRP	C-N-CA	8.40	131.36	120.44
1	G	33	SER	CA-C-N	8.40	128.12	119.56
1	G	33	SER	C-N-CA	8.40	128.12	119.56
1	A	229	ARG	NE-CZ-NH2	8.39	126.75	119.20
1	k	228	ALA	CA-C-N	8.39	131.53	120.28
1	k	228	ALA	C-N-CA	8.39	131.53	120.28
1	g	90	PRO	N-CA-C	8.39	124.40	111.15
1	k	21	ASN	N-CA-C	8.38	120.42	111.28
1	c	119	THR	CA-C-O	8.38	128.71	119.15
1	U	175	GLU	CB-CG-CD	-8.38	98.35	112.60
1	B	3	VAL	CA-C-O	-8.37	111.76	121.05
1	7	7	GLN	OE1-CD-NE2	8.37	130.97	122.60
1	h	151	LEU	N-CA-C	8.37	120.41	111.28
1	A	173	ARG	NE-CZ-NH2	-8.37	111.67	119.20
1	U	70	LYS	N-CA-C	8.37	120.40	111.28
1	m	224	PRO	CA-C-O	-8.36	112.28	121.23
1	O	97	ARG	NE-CZ-NH1	8.36	129.86	121.50
1	c	23	TRP	CD2-CE2-CZ2	-8.36	114.04	122.40
1	D	84	HIS	CA-CB-CG	-8.36	105.44	113.80
1	K	53	ASN	CB-CG-ND2	8.36	128.93	116.40
1	f	219	GLN	N-CA-C	-8.35	100.04	111.56
1	e	37	ILE	O-C-N	-8.35	115.08	120.42
1	J	103	ASP	CA-CB-CG	-8.35	104.25	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	146	SER	O-C-N	-8.35	114.96	121.47
1	J	18	ARG	NE-CZ-NH2	8.33	126.70	119.20
1	k	69	LEU	O-C-N	-8.33	113.29	122.12
1	j	199	LYS	O-C-N	-8.33	113.29	122.12
1	e	201	ILE	N-CA-C	8.32	118.41	110.42
1	X	183	ASN	CA-C-O	8.32	129.55	120.82
1	R	57	ASN	CA-CB-CG	8.31	120.91	112.60
1	6	165	VAL	CA-C-O	-8.31	111.49	120.47
1	D	60	GLY	CA-C-N	8.30	133.54	121.67
1	D	60	GLY	C-N-CA	8.30	133.54	121.67
1	k	87	HIS	N-CA-C	8.29	120.18	108.74
1	S	213	GLU	CA-C-O	8.29	129.21	120.42
1	Z	115	ILE	CA-C-N	8.28	130.49	120.14
1	Z	115	ILE	C-N-CA	8.28	130.49	120.14
1	d	93	PRO	CA-C-N	8.28	129.47	120.44
1	d	93	PRO	C-N-CA	8.28	129.47	120.44
1	Q	71	GLU	CA-C-O	8.28	129.56	119.79
1	U	196	PRO	N-CA-CB	8.28	112.44	103.33
1	f	25	LYS	CA-C-N	8.27	131.15	120.56
1	f	25	LYS	C-N-CA	8.27	131.15	120.56
1	W	120	HIS	CE1-NE2-CD2	-8.27	100.73	109.00
1	a	139	ASN	CA-CB-CG	-8.27	104.33	112.60
1	l	148	THR	N-CA-CB	8.26	122.11	109.97
1	a	194	ALA	O-C-N	-8.26	112.65	122.81
1	I	133	TRP	N-CA-C	8.25	120.27	111.28
1	M	4	GLN	CA-C-N	8.25	134.94	122.65
1	M	4	GLN	C-N-CA	8.25	134.94	122.65
1	S	76	GLU	CA-C-N	8.24	131.33	120.28
1	S	76	GLU	C-N-CA	8.24	131.33	120.28
1	B	214	MET	CA-C-N	8.24	131.32	120.28
1	B	214	MET	C-N-CA	8.24	131.32	120.28
1	Q	36	VAL	CA-C-N	8.24	126.92	120.33
1	Q	36	VAL	C-N-CA	8.24	126.92	120.33
1	f	181	VAL	CA-C-N	8.23	131.15	120.44
1	f	181	VAL	C-N-CA	8.23	131.15	120.44
1	X	62	HIS	CB-CG-CD2	-8.23	120.50	131.20
1	l	85	PRO	CA-C-O	-8.23	112.02	121.56
1	Z	2	ILE	O-C-N	-8.22	114.38	123.26
1	d	21	ASN	CA-CB-CG	-8.22	104.38	112.60
1	Z	226	HIS	N-CA-C	8.21	122.56	112.54
1	A	163	ASP	N-CA-C	-8.21	101.59	111.69
1	H	39	MET	CA-C-N	8.20	131.10	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	39	MET	C-N-CA	8.20	131.10	120.44
1	P	85	PRO	CB-CA-C	-8.19	101.32	111.64
1	A	16	SER	CA-C-N	8.19	128.29	119.28
1	A	16	SER	C-N-CA	8.19	128.29	119.28
1	D	27	VAL	N-CA-C	8.19	121.29	111.05
1	K	25	LYS	O-C-N	-8.19	113.44	122.12
1	6	93	PRO	O-C-N	-8.19	113.00	122.91
1	A	209	ALA	O-C-N	-8.18	113.21	122.86
1	V	185	MET	N-CA-C	8.18	121.22	111.33
1	C	122	PRO	CA-C-N	8.17	128.18	119.76
1	C	122	PRO	C-N-CA	8.17	128.18	119.76
1	H	22	ALA	CA-C-N	8.17	131.23	120.28
1	H	22	ALA	C-N-CA	8.17	131.23	120.28
1	Q	57	ASN	OD1-CG-ND2	-8.17	114.43	122.60
1	K	152	ASP	CA-CB-CG	-8.17	104.43	112.60
1	m	189	LEU	N-CA-C	8.17	120.26	111.36
1	7	23	TRP	CE2-CD2-CE3	8.17	126.97	118.80
1	X	176	GLN	N-CA-C	8.16	119.95	111.14
1	Y	48	THR	O-C-N	-8.16	112.36	121.66
1	l	26	VAL	N-CA-C	8.16	118.25	110.42
1	U	19	THR	N-CA-CB	8.15	122.11	110.12
1	V	168	PHE	CA-CB-CG	-8.15	105.65	113.80
1	a	124	ILE	N-CA-C	-8.15	98.64	107.77
1	b	52	LEU	N-CA-C	8.15	119.79	111.07
1	B	194	ALA	N-CA-C	8.14	122.39	110.59
1	S	221	VAL	O-C-N	-8.14	113.86	122.57
1	c	27	VAL	O-C-N	-8.14	113.93	121.91
1	g	18	ARG	CA-C-N	8.14	131.02	120.44
1	g	18	ARG	C-N-CA	8.14	131.02	120.44
1	X	144	MET	CG-SD-CE	-8.14	83.00	100.90
1	5	198	CYS	CA-C-N	8.14	131.53	120.54
1	5	198	CYS	C-N-CA	8.14	131.53	120.54
1	6	120	HIS	CE1-NE2-CD2	-8.14	100.86	109.00
1	N	100	ARG	CA-C-N	8.13	128.81	119.94
1	N	100	ARG	C-N-CA	8.13	128.81	119.94
1	6	221	VAL	N-CA-C	-8.13	101.43	113.39
1	E	185	MET	N-CA-C	8.13	119.77	111.07
1	6	144	MET	N-CA-C	8.13	120.22	111.36
1	W	194	ALA	O-C-N	-8.13	113.84	122.94
1	7	6	LEU	N-CA-C	8.12	122.60	111.39
1	B	55	MET	CA-C-O	8.12	129.15	120.55
1	a	95	GLN	O-C-N	-8.11	113.78	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	203	LYS	CA-C-N	8.11	130.98	120.44
1	J	203	LYS	C-N-CA	8.11	130.98	120.44
1	F	110	THR	CA-C-O	8.10	131.28	121.72
1	e	177	ALA	N-CA-C	8.10	121.36	110.35
1	L	5	ASN	CA-CB-CG	8.09	120.69	112.60
1	j	209	ALA	O-C-N	-8.09	113.29	122.75
1	G	13	GLN	OE1-CD-NE2	-8.08	114.52	122.60
1	b	16	SER	CA-C-N	-8.08	111.47	119.64
1	b	16	SER	C-N-CA	-8.08	111.47	119.64
1	i	225	GLY	CA-C-N	8.08	130.94	120.44
1	i	225	GLY	C-N-CA	8.08	130.94	120.44
1	7	103	ASP	CA-C-N	8.07	131.88	120.42
1	7	103	ASP	C-N-CA	8.07	131.88	120.42
1	f	145	TYR	O-C-N	-8.06	112.27	122.34
1	h	174	ALA	N-CA-C	8.06	119.69	111.07
1	T	71	GLU	O-C-N	-8.06	113.58	122.12
1	A	164	TYR	N-CA-C	8.05	121.08	111.33
1	S	92	GLU	CA-C-O	-8.05	113.06	119.66
1	k	173	ARG	O-C-N	-8.04	113.59	122.12
1	O	139	ASN	CA-C-N	8.04	131.38	120.44
1	O	139	ASN	C-N-CA	8.04	131.38	120.44
1	5	215	MET	CA-C-O	8.04	129.22	119.97
1	6	158	LYS	CA-C-N	8.04	132.35	121.74
1	6	158	LYS	C-N-CA	8.04	132.35	121.74
1	M	181	VAL	N-CA-C	-8.04	102.60	110.72
1	S	78	ALA	CA-C-N	8.04	131.71	120.29
1	S	78	ALA	C-N-CA	8.04	131.71	120.29
1	Y	51	ASP	CA-CB-CG	-8.04	104.56	112.60
1	l	77	ALA	CA-C-N	8.04	131.05	120.28
1	l	77	ALA	C-N-CA	8.04	131.05	120.28
1	l	148	THR	CA-C-N	8.03	134.71	121.39
1	l	148	THR	C-N-CA	8.03	134.71	121.39
1	f	137	GLY	O-C-N	-8.02	113.54	122.28
1	N	97	ARG	N-CA-C	8.02	120.93	110.43
1	5	113	GLU	CA-C-N	8.02	130.86	120.44
1	5	113	GLU	C-N-CA	8.02	130.86	120.44
1	P	133	TRP	N-CA-C	8.01	120.01	111.28
1	5	34	PRO	CA-C-N	8.01	132.48	120.31
1	5	34	PRO	C-N-CA	8.01	132.48	120.31
1	M	206	GLY	O-C-N	-8.01	113.76	121.77
1	d	67	GLN	O-C-N	-8.01	113.63	122.12
1	d	204	ALA	CA-C-O	-8.00	112.07	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	194	ALA	N-CA-C	8.00	121.23	110.35
1	a	87	HIS	CE1-NE2-CD2	-8.00	101.00	109.00
1	B	198	CYS	CA-C-N	7.99	130.83	120.44
1	B	198	CYS	C-N-CA	7.99	130.83	120.44
1	K	19	THR	CA-C-N	7.99	131.32	120.38
1	K	19	THR	C-N-CA	7.99	131.32	120.38
1	b	5	ASN	OD1-CG-ND2	7.99	130.59	122.60
1	c	111	LEU	N-CA-C	7.99	119.98	111.28
1	g	155	GLN	N-CA-C	7.99	122.10	110.28
1	V	13	GLN	OE1-CD-NE2	-7.98	114.62	122.60
1	V	173	ARG	CA-C-O	7.98	129.12	120.10
1	c	86	VAL	CA-C-N	7.98	133.19	121.31
1	c	86	VAL	C-N-CA	7.98	133.19	121.31
1	k	24	VAL	CA-C-N	7.98	130.81	120.44
1	k	24	VAL	C-N-CA	7.98	130.81	120.44
1	e	84	HIS	CA-CB-CG	7.97	121.77	113.80
1	V	115	ILE	N-CA-CB	7.97	119.88	110.55
1	G	176	GLN	CA-C-N	7.97	133.18	121.31
1	G	176	GLN	C-N-CA	7.97	133.18	121.31
1	O	143	ARG	NE-CZ-NH1	7.97	129.47	121.50
1	S	137	GLY	CA-C-O	-7.97	112.21	120.66
1	K	170	LYS	CA-C-O	7.97	128.86	120.42
1	V	217	ALA	N-CA-C	7.96	121.73	110.50
1	c	226	HIS	CA-CB-CG	7.96	121.76	113.80
1	f	139	ASN	CA-C-N	7.96	130.79	120.44
1	f	139	ASN	C-N-CA	7.96	130.79	120.44
1	V	162	ARG	NE-CZ-NH2	7.95	126.36	119.20
1	G	21	ASN	CA-C-N	7.95	130.77	120.44
1	G	21	ASN	C-N-CA	7.95	130.77	120.44
1	G	161	PHE	CA-CB-CG	-7.95	105.85	113.80
1	I	88	ALA	N-CA-C	7.94	122.74	112.89
1	7	148	THR	CB-CA-C	-7.94	99.02	110.06
1	g	3	VAL	N-CA-C	-7.94	105.28	112.90
1	K	131	LYS	CA-C-N	7.94	130.76	120.44
1	K	131	LYS	C-N-CA	7.94	130.76	120.44
1	Z	83	LEU	O-C-N	7.94	130.25	122.07
1	C	181	VAL	O-C-N	-7.93	114.18	121.87
1	O	168	PHE	CA-CB-CG	7.92	121.72	113.80
1	h	71	GLU	N-CA-C	7.92	119.92	111.28
1	P	180	GLU	CA-C-N	7.92	130.54	120.56
1	P	180	GLU	C-N-CA	7.92	130.54	120.56
1	f	120	HIS	CA-CB-CG	7.92	121.72	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	223	GLY	O-C-N	-7.92	113.86	121.77
1	D	23	TRP	CE2-CD2-CE3	7.91	126.71	118.80
1	T	68	MET	CA-C-O	7.91	128.94	120.55
1	l	56	LEU	N-CA-C	7.91	119.91	111.28
1	d	136	LEU	CA-C-N	7.91	130.27	120.22
1	d	136	LEU	C-N-CA	7.91	130.27	120.22
1	M	36	VAL	CA-C-N	7.91	128.02	120.43
1	M	36	VAL	C-N-CA	7.91	128.02	120.43
1	F	40	PHE	CA-CB-CG	-7.91	105.89	113.80
1	P	110	THR	CA-C-N	7.91	132.68	120.82
1	P	110	THR	C-N-CA	7.91	132.68	120.82
1	l	73	ILE	CA-C-N	7.91	130.88	120.28
1	l	73	ILE	C-N-CA	7.91	130.88	120.28
1	N	29	GLU	N-CA-C	7.90	120.89	111.33
1	i	40	PHE	CA-CB-CG	-7.90	105.90	113.80
1	H	198	CYS	N-CA-C	7.90	120.98	111.82
1	A	84	HIS	O-C-N	-7.90	114.89	121.44
1	U	121	ASN	CA-C-O	-7.90	112.35	120.09
1	P	111	LEU	CA-C-N	7.90	130.86	120.28
1	P	111	LEU	C-N-CA	7.90	130.86	120.28
1	W	212	GLU	O-C-N	-7.90	112.98	122.22
1	A	133	TRP	N-CA-C	7.89	119.88	111.28
1	V	189	LEU	CA-C-N	7.89	130.86	120.28
1	V	189	LEU	C-N-CA	7.89	130.86	120.28
1	M	28	GLU	CA-C-N	7.89	131.50	120.29
1	M	28	GLU	C-N-CA	7.89	131.50	120.29
1	Q	183	ASN	N-CA-C	7.89	120.97	111.82
1	j	180	GLU	O-C-N	-7.89	113.94	122.07
1	D	112	GLN	N-CA-C	7.89	121.85	111.75
1	W	145	TYR	N-CA-C	-7.88	102.74	113.30
1	H	45	GLU	N-CA-C	7.88	121.17	109.59
1	D	111	LEU	N-CA-C	7.88	119.50	111.07
1	L	82	ARG	NE-CZ-NH2	-7.88	112.11	119.20
1	Y	166	ASP	CA-CB-CG	-7.88	104.72	112.60
1	H	142	VAL	CA-C-O	7.88	129.14	120.95
1	Y	126	VAL	CA-C-N	7.88	128.53	119.94
1	Y	126	VAL	C-N-CA	7.88	128.53	119.94
1	P	70	LYS	N-CA-C	7.88	119.50	111.07
1	5	193	ASN	CA-CB-CG	-7.87	104.73	112.60
1	6	184	TRP	N-CA-C	7.87	119.86	111.28
1	T	208	ALA	N-CA-C	7.87	119.49	111.07
1	Z	75	GLU	O-C-N	-7.87	113.78	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	38	PRO	N-CA-C	7.87	125.47	113.75
1	d	83	LEU	N-CA-C	7.87	119.49	111.07
1	U	226	HIS	CE1-NE2-CD2	-7.87	101.14	109.00
1	E	173	ARG	NE-CZ-NH2	-7.86	112.13	119.20
1	O	7	GLN	N-CA-C	7.86	122.58	112.92
1	6	95	GLN	OE1-CD-NE2	-7.85	114.75	122.60
1	T	82	ARG	NE-CZ-NH2	-7.85	112.13	119.20
1	R	226	HIS	CA-C-N	7.85	130.64	120.44
1	R	226	HIS	C-N-CA	7.85	130.64	120.44
1	R	193	ASN	CA-CB-CG	-7.84	104.76	112.60
1	5	195	ASN	CA-CB-CG	7.84	120.44	112.60
1	b	33	SER	O-C-N	-7.84	116.69	121.71
1	e	11	VAL	O-C-N	-7.83	114.36	123.05
1	L	34	PRO	CA-C-N	7.83	131.55	120.28
1	L	34	PRO	C-N-CA	7.83	131.55	120.28
1	G	43	LEU	O-C-N	-7.83	113.83	122.12
1	U	73	ILE	CA-C-N	7.82	130.76	120.28
1	U	73	ILE	C-N-CA	7.82	130.76	120.28
1	F	68	MET	N-CA-C	7.81	119.79	111.28
1	Q	19	THR	CA-C-N	7.81	130.59	120.44
1	Q	19	THR	C-N-CA	7.81	130.59	120.44
1	i	155	GLN	N-CA-C	7.81	119.57	111.14
1	D	24	VAL	CA-C-N	7.80	131.07	120.38
1	D	24	VAL	C-N-CA	7.80	131.07	120.38
1	Z	62	HIS	CA-CB-CG	7.80	121.60	113.80
1	H	136	LEU	CA-C-N	7.80	128.80	119.99
1	H	136	LEU	C-N-CA	7.80	128.80	119.99
1	7	74	ASN	CA-CB-CG	-7.80	104.80	112.60
1	L	141	ILE	N-CA-CB	7.79	120.55	110.57
1	7	159	GLU	CA-C-N	7.79	127.83	119.89
1	7	159	GLU	C-N-CA	7.79	127.83	119.89
1	M	134	ILE	N-CA-C	7.79	117.89	110.42
1	a	31	ALA	O-C-N	-7.79	113.28	122.15
1	F	149	SER	CA-C-O	-7.78	111.96	120.36
1	N	52	LEU	O-C-N	-7.78	114.06	122.07
1	6	97	ARG	O-C-N	-7.78	113.30	122.87
1	R	53	ASN	OD1-CG-ND2	-7.78	114.83	122.60
1	d	219	GLN	OE1-CD-NE2	-7.77	114.83	122.60
1	D	162	ARG	O-C-N	-7.77	113.88	122.12
1	I	214	MET	CG-SD-CE	-7.77	83.81	100.90
1	j	19	THR	CA-C-N	7.77	131.01	120.44
1	j	19	THR	C-N-CA	7.77	131.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	80	TRP	CA-C-O	-7.77	112.32	120.55
1	M	29	GLU	N-CA-C	7.77	119.83	111.36
1	6	198	CYS	O-C-N	-7.77	113.89	122.12
1	5	104	ILE	CB-CA-C	-7.76	101.50	112.22
1	m	12	HIS	CA-CB-CG	7.76	121.56	113.80
1	l	87	HIS	CA-CB-CG	7.75	121.56	113.80
1	Y	124	ILE	CA-C-N	-7.75	110.15	119.84
1	Y	124	ILE	C-N-CA	-7.75	110.15	119.84
1	c	136	LEU	CA-C-N	7.75	128.53	120.00
1	c	136	LEU	C-N-CA	7.75	128.53	120.00
1	D	100	ARG	O-C-N	-7.75	111.86	122.94
1	B	180	GLU	N-CA-C	7.75	119.36	111.07
1	f	108	THR	N-CA-C	-7.75	100.87	111.56
1	c	196	PRO	CA-C-N	7.75	130.66	120.28
1	c	196	PRO	C-N-CA	7.75	130.66	120.28
1	H	72	THR	CA-C-N	7.74	131.41	120.42
1	H	72	THR	C-N-CA	7.74	131.41	120.42
1	i	99	PRO	CA-C-O	-7.74	112.88	121.32
1	H	81	ASP	CA-CB-CG	7.74	120.34	112.60
1	6	63	GLN	N-CA-C	7.74	120.40	111.11
1	V	51	ASP	CA-CB-CG	-7.74	104.86	112.60
1	S	185	MET	O-C-N	-7.74	113.92	122.12
1	6	125	PRO	CA-C-N	7.74	131.41	120.42
1	6	125	PRO	C-N-CA	7.74	131.41	120.42
1	W	87	HIS	CA-CB-CG	7.73	121.53	113.80
1	e	228	ALA	N-CA-CB	-7.73	100.21	110.88
1	j	88	ALA	N-CA-C	7.73	120.48	108.96
1	e	184	TRP	CA-C-N	7.73	131.26	120.29
1	e	184	TRP	C-N-CA	7.73	131.26	120.29
1	h	37	ILE	O-C-N	-7.73	115.47	120.42
1	N	103	ASP	CA-C-N	7.73	131.04	120.46
1	N	103	ASP	C-N-CA	7.73	131.04	120.46
1	Y	40	PHE	CA-C-N	7.72	130.47	120.44
1	Y	40	PHE	C-N-CA	7.72	130.47	120.44
1	J	229	ARG	O-C-N	-7.71	112.75	123.01
1	5	160	PRO	N-CA-C	7.71	123.83	111.26
1	V	181	VAL	N-CA-CB	7.71	119.57	110.55
1	g	27	VAL	N-CA-C	7.71	118.49	110.62
1	h	21	ASN	N-CA-C	7.71	119.69	111.28
1	D	170	LYS	O-C-N	-7.71	113.95	122.12
1	K	121	ASN	CA-C-N	7.71	128.32	120.38
1	K	121	ASN	C-N-CA	7.71	128.32	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	194	ALA	N-CA-CB	-7.71	97.47	110.49
1	W	162	ARG	NE-CZ-NH1	7.70	129.20	121.50
1	W	5	ASN	CA-C-O	-7.70	112.26	120.42
1	Y	195	ASN	OD1-CG-ND2	-7.70	114.90	122.60
1	7	62	HIS	ND1-CE1-NE2	7.70	116.10	108.40
1	7	48	THR	CA-C-O	-7.70	111.94	120.87
1	B	199	LYS	O-C-N	-7.70	114.14	122.07
1	f	191	VAL	CA-C-N	7.70	130.59	120.28
1	f	191	VAL	C-N-CA	7.70	130.59	120.28
1	g	143	ARG	NE-CZ-NH2	7.70	126.12	119.20
1	W	71	GLU	N-CA-C	7.69	119.30	111.07
1	c	30	LYS	O-C-N	-7.69	114.48	123.25
1	7	75	GLU	O-C-N	7.69	130.91	122.15
1	N	210	THR	O-C-N	-7.69	114.09	122.85
1	J	67	GLN	O-C-N	-7.68	113.80	122.09
1	S	113	GLU	CA-C-N	7.68	130.91	120.54
1	S	113	GLU	C-N-CA	7.68	130.91	120.54
1	h	16	SER	O-C-N	-7.68	112.83	121.43
1	f	4	GLN	OE1-CD-NE2	-7.67	114.93	122.60
1	W	32	PHE	CA-CB-CG	-7.67	106.13	113.80
1	m	182	LYS	O-C-N	-7.67	113.99	122.12
1	M	171	THR	CA-C-N	7.67	130.55	120.28
1	M	171	THR	C-N-CA	7.67	130.55	120.28
1	Z	186	THR	O-C-N	-7.67	113.99	122.12
1	K	117	TRP	N-CA-C	7.66	119.63	111.28
1	m	75	GLU	N-CA-C	7.66	119.27	111.07
1	C	150	ILE	CA-C-N	7.66	131.17	120.29
1	C	150	ILE	C-N-CA	7.66	131.17	120.29
1	m	219	GLN	OE1-CD-NE2	-7.66	114.94	122.60
1	Q	159	GLU	CA-C-O	-7.66	113.66	119.32
1	h	164	TYR	CA-C-N	7.66	130.95	120.46
1	h	164	TYR	C-N-CA	7.66	130.95	120.46
1	W	60	GLY	CA-C-N	7.65	130.86	121.83
1	W	60	GLY	C-N-CA	7.65	130.86	121.83
1	g	103	ASP	CA-C-N	7.65	130.20	120.56
1	g	103	ASP	C-N-CA	7.65	130.20	120.56
1	D	204	ALA	CA-C-N	7.65	130.38	120.44
1	D	204	ALA	C-N-CA	7.65	130.38	120.44
1	F	125	PRO	CA-C-N	7.65	131.31	120.53
1	F	125	PRO	C-N-CA	7.65	131.31	120.53
1	T	133	TRP	N-CA-C	7.65	120.73	111.40
1	m	33	SER	O-C-N	-7.65	116.50	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	210	THR	CA-C-O	-7.64	113.28	121.99
1	X	166	ASP	CA-CB-CG	7.64	120.24	112.60
1	6	33	SER	O-C-N	-7.64	112.78	121.79
1	E	170	LYS	O-C-N	-7.63	114.03	122.12
1	H	167	ARG	NE-CZ-NH2	7.63	126.07	119.20
1	g	167	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	e	200	THR	O-C-N	-7.63	114.03	122.12
1	U	57	ASN	CA-CB-CG	-7.62	104.97	112.60
1	b	21	ASN	CA-C-N	7.62	130.50	120.28
1	b	21	ASN	C-N-CA	7.62	130.50	120.28
1	m	168	PHE	CA-CB-CG	-7.62	106.18	113.80
1	W	228	ALA	N-CA-C	7.62	121.24	110.50
1	G	144	MET	O-C-N	-7.62	113.47	122.15
1	X	154	ARG	NE-CZ-NH2	7.62	126.05	119.20
1	c	229	ARG	NE-CZ-NH2	7.61	126.05	119.20
1	k	96	MET	CA-C-O	7.61	128.74	119.38
1	b	38	PRO	CA-C-N	7.61	130.33	120.44
1	b	38	PRO	C-N-CA	7.61	130.33	120.44
1	L	130	TYR	O-C-N	-7.60	113.32	122.22
1	E	139	ASN	CA-C-O	7.60	128.61	120.55
1	Z	79	GLU	CA-C-O	7.60	128.60	120.55
1	B	122	PRO	CA-C-N	7.59	129.33	119.84
1	B	122	PRO	C-N-CA	7.59	129.33	119.84
1	C	96	MET	CA-C-N	7.59	134.78	121.80
1	C	96	MET	C-N-CA	7.59	134.78	121.80
1	E	200	THR	N-CA-C	7.59	120.22	111.11
1	I	85	PRO	CA-C-N	7.59	133.53	122.99
1	I	85	PRO	C-N-CA	7.59	133.53	122.99
1	i	229	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	N	152	ASP	N-CA-CB	-7.58	99.40	110.70
1	g	170	LYS	CA-C-N	7.58	131.06	120.29
1	g	170	LYS	C-N-CA	7.58	131.06	120.29
1	Q	124	ILE	O-C-N	-7.58	114.58	121.41
1	P	173	ARG	CA-C-N	7.58	131.05	120.29
1	P	173	ARG	C-N-CA	7.58	131.05	120.29
1	j	81	ASP	N-CA-C	7.58	120.42	111.71
1	f	193	ASN	OD1-CG-ND2	7.58	130.18	122.60
1	l	120	HIS	CE1-NE2-CD2	-7.58	101.42	109.00
1	K	37	ILE	N-CA-C	7.57	121.44	112.35
1	a	195	ASN	CA-C-N	7.57	127.11	119.24
1	a	195	ASN	C-N-CA	7.57	127.11	119.24
1	H	84	HIS	CE1-NE2-CD2	-7.57	101.43	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	226	HIS	ND1-CE1-NE2	7.57	115.97	108.40
1	h	62	HIS	CA-CB-CG	-7.57	106.23	113.80
1	D	140	LYS	CB-CA-C	-7.57	99.00	110.88
1	5	179	GLN	N-CA-C	7.57	120.49	111.33
1	C	226	HIS	CA-C-O	7.56	127.58	119.34
1	m	135	ILE	O-C-N	-7.56	114.54	121.87
1	F	26	VAL	CB-CA-C	-7.56	102.30	111.97
1	J	223	GLY	O-C-N	-7.55	114.22	121.77
1	i	29	GLU	N-CA-C	7.55	119.59	111.36
1	H	124	ILE	CA-C-O	-7.55	112.37	119.62
1	M	226	HIS	ND1-CE1-NE2	7.55	115.95	108.40
1	R	25	LYS	CA-C-O	7.55	128.63	120.10
1	T	181	VAL	N-CA-C	-7.55	103.10	110.72
1	G	164	TYR	N-CA-C	7.54	119.58	111.36
1	F	221	VAL	N-CA-C	7.54	120.14	112.90
1	Z	115	ILE	N-CA-C	7.54	118.33	110.72
1	i	8	GLY	N-CA-C	-7.54	105.42	115.21
1	F	228	ALA	CA-C-N	7.53	131.49	120.95
1	F	228	ALA	C-N-CA	7.53	131.49	120.95
1	7	154	ARG	NE-CZ-NH2	-7.53	112.42	119.20
1	J	73	ILE	N-CA-C	7.53	118.30	110.62
1	H	167	ARG	NH1-CZ-NH2	-7.53	109.52	119.30
1	b	125	PRO	CA-C-N	7.53	130.77	120.46
1	b	125	PRO	C-N-CA	7.53	130.77	120.46
1	U	53	ASN	O-C-N	-7.52	114.15	122.12
1	i	150	ILE	CA-C-O	7.52	126.42	119.20
1	a	126	VAL	N-CA-C	7.52	118.25	110.36
1	m	97	ARG	N-CA-C	7.52	120.57	110.35
1	N	48	THR	CA-C-N	7.52	128.19	119.47
1	N	48	THR	C-N-CA	7.52	128.19	119.47
1	h	85	PRO	CA-C-N	-7.52	113.46	122.93
1	h	85	PRO	C-N-CA	-7.52	113.46	122.93
1	K	208	ALA	CB-CA-C	7.51	122.64	110.09
1	W	212	GLU	CA-C-O	7.51	128.59	120.10
1	D	209	ALA	N-CA-C	7.51	121.12	110.23
1	I	133	TRP	CB-CG-CD1	7.51	138.16	126.90
1	l	198	CYS	N-CA-C	7.51	119.47	111.28
1	d	53	ASN	O-C-N	-7.51	114.16	122.12
1	P	173	ARG	N-CA-C	7.51	119.46	111.28
1	Y	105	ALA	CA-C-O	7.51	127.71	119.15
1	A	80	TRP	CA-C-O	7.50	128.50	120.55
1	Y	227	LYS	N-CA-CB	7.50	120.97	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	180	GLU	N-CA-C	7.50	119.45	111.28
1	D	226	HIS	ND1-CE1-NE2	7.50	115.89	108.40
1	k	167	ARG	CA-C-N	7.50	130.66	120.54
1	k	167	ARG	C-N-CA	7.50	130.66	120.54
1	E	12	HIS	CB-CG-CD2	-7.49	121.46	131.20
1	W	58	THR	CA-C-N	7.49	130.59	120.63
1	W	58	THR	C-N-CA	7.49	130.59	120.63
1	f	35	GLU	N-CA-C	7.49	122.00	113.01
1	T	163	ASP	CA-CB-CG	-7.49	105.11	112.60
1	V	177	ALA	N-CA-C	7.49	119.97	110.24
1	L	131	LYS	N-CA-CB	7.49	120.86	110.01
1	E	123	PRO	CA-C-N	7.48	127.68	122.60
1	E	123	PRO	C-N-CA	7.48	127.68	122.60
1	Z	214	MET	N-CA-C	7.48	119.07	111.07
1	U	163	ASP	CA-C-N	7.47	130.16	120.44
1	U	163	ASP	C-N-CA	7.47	130.16	120.44
1	f	83	LEU	CA-C-O	7.47	128.07	119.18
1	B	6	LEU	N-CA-CB	7.47	123.11	110.49
1	c	26	VAL	CB-CA-C	-7.47	101.91	112.22
1	5	87	HIS	CA-CB-CG	7.47	121.27	113.80
1	C	121	ASN	OD1-CG-ND2	-7.46	115.14	122.60
1	H	177	ALA	N-CA-C	7.46	120.21	110.43
1	Y	129	ILE	N-CA-CB	7.46	119.28	110.55
1	f	155	GLN	CG-CD-OE1	7.46	135.73	120.80
1	P	229	ARG	CA-C-N	7.46	130.11	120.56
1	P	229	ARG	C-N-CA	7.46	130.11	120.56
1	V	95	GLN	O-C-N	-7.46	114.38	122.07
1	H	183	ASN	CA-CB-CG	-7.46	105.14	112.60
1	S	10	MET	N-CA-C	7.46	121.68	111.39
1	D	170	LYS	CA-C-O	7.46	128.46	120.55
1	L	226	HIS	N-CA-C	-7.46	103.13	112.90
1	d	218	CYS	N-CA-CB	7.46	123.09	110.49
1	O	104	ILE	CB-CA-C	7.45	122.51	112.22
1	7	100	ARG	O-C-N	-7.45	113.96	122.68
1	C	64	ALA	O-C-N	-7.45	113.50	122.22
1	E	23	TRP	CA-C-N	7.45	131.04	120.53
1	E	23	TRP	C-N-CA	7.45	131.04	120.53
1	c	56	LEU	N-CA-CB	7.45	121.07	110.12
1	d	184	TRP	O-C-N	-7.45	114.40	122.07
1	Q	118	MET	N-CA-C	7.45	120.28	111.71
1	R	48	THR	CA-C-O	-7.45	112.84	120.96
1	i	92	GLU	O-C-N	-7.45	113.71	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	212	GLU	CA-C-N	7.45	130.26	120.28
1	O	212	GLU	C-N-CA	7.45	130.26	120.28
1	k	87	HIS	O-C-N	-7.45	114.21	122.92
1	P	78	ALA	O-C-N	-7.44	114.23	122.12
1	W	108	THR	N-CA-CB	7.44	121.42	110.56
1	M	23	TRP	CD2-CE2-CZ2	-7.44	114.96	122.40
1	G	60	GLY	CA-C-N	7.44	129.63	122.27
1	G	60	GLY	C-N-CA	7.44	129.63	122.27
1	W	111	LEU	CA-C-N	7.44	130.25	120.28
1	W	111	LEU	C-N-CA	7.44	130.25	120.28
1	V	221	VAL	N-CA-C	7.43	118.20	110.62
1	B	197	ASP	CA-CB-CG	-7.43	105.17	112.60
1	a	119	THR	CA-C-N	7.43	131.97	120.75
1	a	119	THR	C-N-CA	7.43	131.97	120.75
1	k	184	TRP	CG-CD2-CE3	-7.43	126.47	133.90
1	L	130	TYR	CA-C-N	7.43	130.09	120.44
1	L	130	TYR	C-N-CA	7.43	130.09	120.44
1	S	84	HIS	CA-CB-CG	7.43	121.23	113.80
1	m	183	ASN	CA-C-N	7.43	130.09	120.44
1	m	183	ASN	C-N-CA	7.43	130.09	120.44
1	X	165	VAL	N-CA-C	7.42	118.19	110.62
1	Z	77	ALA	CA-C-N	7.42	130.09	120.44
1	Z	77	ALA	C-N-CA	7.42	130.09	120.44
1	j	92	GLU	CA-C-N	7.42	127.85	119.83
1	j	92	GLU	C-N-CA	7.42	127.85	119.83
1	E	115	ILE	CB-CA-C	-7.42	101.98	112.22
1	Q	134	ILE	CA-C-N	7.42	130.18	120.60
1	Q	134	ILE	C-N-CA	7.42	130.18	120.60
1	W	130	TYR	CA-C-O	7.42	128.29	120.42
1	B	73	ILE	N-CA-C	7.42	118.21	110.72
1	I	204	ALA	N-CA-C	7.42	119.01	111.07
1	S	84	HIS	CE1-NE2-CD2	-7.42	101.58	109.00
1	T	141	ILE	O-C-N	-7.42	114.38	121.87
1	X	167	ARG	NE-CZ-NH2	-7.42	112.53	119.20
1	D	132	ARG	N-CA-C	7.41	119.36	111.28
1	S	181	VAL	CB-CA-C	-7.41	102.13	112.14
1	Z	161	PHE	CA-C-N	7.41	130.21	120.28
1	Z	161	PHE	C-N-CA	7.41	130.21	120.28
1	H	147	PRO	CA-C-O	-7.41	112.98	121.36
1	Y	212	GLU	CA-C-N	7.41	130.07	120.44
1	Y	212	GLU	C-N-CA	7.41	130.07	120.44
1	a	69	LEU	N-CA-C	7.41	120.06	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	45	GLU	N-CA-C	7.41	123.52	111.37
1	b	11	VAL	CB-CA-C	-7.41	103.28	111.35
1	d	68	MET	N-CA-C	7.41	119.36	111.28
1	P	211	LEU	CB-CA-C	7.41	123.08	110.79
1	c	125	PRO	CA-C-N	7.40	130.60	120.46
1	c	125	PRO	C-N-CA	7.40	130.60	120.46
1	F	27	VAL	CA-C-N	7.40	130.06	120.44
1	F	27	VAL	C-N-CA	7.40	130.06	120.44
1	j	101	GLY	N-CA-C	7.40	121.60	112.64
1	N	133	TRP	CB-CG-CD2	-7.40	116.44	126.80
1	6	149	SER	CA-C-N	7.40	132.16	120.47
1	6	149	SER	C-N-CA	7.40	132.16	120.47
1	L	183	ASN	CA-CB-CG	-7.40	105.20	112.60
1	f	91	ILE	CA-C-O	7.39	128.46	120.47
1	B	91	ILE	O-C-N	-7.39	114.70	121.87
1	l	216	THR	OG1-CB-CG2	-7.39	94.52	109.30
1	H	40	PHE	CA-C-O	-7.39	113.06	120.82
1	E	51	ASP	CA-CB-CG	-7.39	105.21	112.60
1	l	34	PRO	CA-C-N	7.39	130.18	120.28
1	l	34	PRO	C-N-CA	7.39	130.18	120.28
1	m	87	HIS	CB-CG-CD2	-7.39	121.60	131.20
1	6	155	GLN	OE1-CD-NE2	-7.38	115.22	122.60
1	S	115	ILE	CA-C-N	7.38	128.30	120.03
1	S	115	ILE	C-N-CA	7.38	128.30	120.03
1	b	165	VAL	N-CA-C	7.38	118.18	110.72
1	J	53	ASN	OD1-CG-ND2	-7.38	115.22	122.60
1	X	141	ILE	CA-C-N	7.38	130.57	120.46
1	X	141	ILE	C-N-CA	7.38	130.57	120.46
1	l	79	GLU	N-CA-C	7.38	119.32	111.28
1	m	133	TRP	N-CA-C	7.38	118.96	111.07
1	N	116	GLY	N-CA-C	7.38	123.43	113.99
1	X	68	MET	O-C-N	-7.37	113.74	122.15
1	X	198	CYS	CA-C-N	7.37	130.90	120.28
1	X	198	CYS	C-N-CA	7.37	130.90	120.28
1	6	120	HIS	CG-CD2-NE2	7.37	114.57	107.20
1	B	120	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
1	l	48	THR	CA-C-O	-7.37	113.05	120.64
1	h	170	LYS	CA-C-N	7.37	130.90	120.28
1	h	170	LYS	C-N-CA	7.37	130.90	120.28
1	b	100	ARG	CA-C-N	7.37	129.41	120.13
1	b	100	ARG	C-N-CA	7.37	129.41	120.13
1	d	51	ASP	O-C-N	-7.37	114.48	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	210	THR	CA-C-N	7.37	130.47	120.38
1	6	210	THR	C-N-CA	7.37	130.47	120.38
1	A	83	LEU	CA-C-O	7.36	128.44	119.97
1	6	172	LEU	CA-C-N	7.36	130.88	120.28
1	6	172	LEU	C-N-CA	7.36	130.88	120.28
1	G	104	ILE	O-C-N	-7.36	114.73	121.87
1	6	160	PRO	N-CA-CB	-7.36	97.14	103.32
1	C	143	ARG	CA-C-N	7.36	130.14	120.28
1	C	143	ARG	C-N-CA	7.36	130.14	120.28
1	Y	16	SER	CA-C-N	7.35	127.06	119.56
1	Y	16	SER	C-N-CA	7.35	127.06	119.56
1	e	9	GLN	OE1-CD-NE2	-7.35	115.25	122.60
1	6	92	GLU	CA-C-O	-7.35	113.58	120.34
1	K	54	THR	CA-C-N	7.34	129.99	120.44
1	K	54	THR	C-N-CA	7.34	129.99	120.44
1	N	52	LEU	CA-C-N	7.34	129.99	120.44
1	N	52	LEU	C-N-CA	7.34	129.99	120.44
1	d	159	GLU	O-C-N	-7.34	114.35	121.18
1	K	125	PRO	CA-C-N	7.34	130.52	120.46
1	K	125	PRO	C-N-CA	7.34	130.52	120.46
1	k	124	ILE	CB-CA-C	-7.34	102.37	110.52
1	F	72	THR	N-CA-C	7.34	118.92	111.07
1	A	37	ILE	CA-C-O	-7.34	113.77	118.69
1	Z	142	VAL	CA-C-N	7.34	133.15	120.68
1	Z	142	VAL	C-N-CA	7.34	133.15	120.68
1	k	54	THR	CA-C-O	-7.34	113.12	120.82
1	d	35	GLU	CA-C-O	7.33	128.19	120.42
1	e	38	PRO	CB-CA-C	-7.33	101.40	112.11
1	O	130	TYR	CA-C-N	7.33	130.11	120.28
1	O	130	TYR	C-N-CA	7.33	130.11	120.28
1	C	130	TYR	O-C-N	-7.33	113.25	122.27
1	H	11	VAL	CA-C-O	7.33	128.13	120.36
1	G	19	THR	O-C-N	-7.33	113.80	122.15
1	m	230	VAL	N-CA-C	7.33	124.58	109.34
1	J	83	LEU	CA-C-O	-7.33	112.66	120.42
1	a	57	ASN	CA-CB-CG	-7.33	105.27	112.60
1	U	209	ALA	N-CA-C	7.32	119.76	110.24
1	X	136	LEU	N-CA-C	-7.32	103.23	111.14
1	P	195	ASN	CA-C-N	7.32	127.96	119.47
1	P	195	ASN	C-N-CA	7.32	127.96	119.47
1	5	31	ALA	N-CA-C	7.32	119.43	108.31
1	Z	43	LEU	CA-C-N	7.32	130.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	43	LEU	C-N-CA	7.32	130.08	120.28
1	f	162	ARG	CG-CD-NE	-7.31	95.91	112.00
1	i	115	ILE	CA-C-N	7.31	128.22	120.03
1	i	115	ILE	C-N-CA	7.31	128.22	120.03
1	N	63	GLN	N-CA-C	7.31	121.46	112.54
1	V	213	GLU	N-CA-C	-7.31	104.22	113.72
1	d	197	ASP	CA-CB-CG	-7.31	105.29	112.60
1	B	182	LYS	CA-C-O	7.31	128.29	120.55
1	T	215	MET	N-CA-C	-7.31	104.39	113.38
1	e	170	LYS	O-C-N	-7.30	113.28	122.27
1	R	165	VAL	N-CA-C	7.30	118.06	110.62
1	U	178	SER	CA-C-N	7.30	130.38	120.38
1	U	178	SER	C-N-CA	7.30	130.38	120.38
1	e	20	LEU	CA-C-N	7.30	130.06	120.28
1	e	20	LEU	C-N-CA	7.30	130.06	120.28
1	W	120	HIS	CB-CG-CD2	-7.30	121.71	131.20
1	X	12	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	h	101	GLY	O-C-N	-7.29	113.22	122.70
1	E	7	GLN	N-CA-C	7.29	121.43	110.64
1	M	144	MET	CA-C-O	7.29	128.47	120.82
1	O	140	LYS	N-CA-CB	7.29	120.64	110.07
1	W	3	VAL	CA-C-N	7.29	133.40	122.68
1	W	3	VAL	C-N-CA	7.29	133.40	122.68
1	B	195	ASN	CA-CB-CG	-7.29	105.31	112.60
1	D	39	MET	CA-C-N	7.29	130.64	120.29
1	D	39	MET	C-N-CA	7.29	130.64	120.29
1	X	6	LEU	CA-C-N	7.28	131.80	121.02
1	X	6	LEU	C-N-CA	7.28	131.80	121.02
1	L	110	THR	CA-C-O	-7.28	111.32	120.28
1	I	187	GLU	N-CA-C	7.28	118.86	111.07
1	c	187	GLU	N-CA-C	7.28	118.91	110.97
1	h	184	TRP	CA-C-O	-7.28	112.83	120.55
1	K	4	GLN	CA-C-N	7.28	130.34	120.44
1	K	4	GLN	C-N-CA	7.28	130.34	120.44
1	V	16	SER	O-C-N	-7.28	115.41	121.38
1	A	135	ILE	O-C-N	-7.28	114.33	121.83
1	g	193	ASN	CA-CB-CG	-7.28	105.33	112.60
1	i	143	ARG	N-CA-CB	7.27	120.81	110.12
1	G	189	LEU	CA-C-N	7.27	129.89	120.44
1	G	189	LEU	C-N-CA	7.27	129.89	120.44
1	S	55	MET	N-CA-C	7.27	118.85	111.07
1	W	106	GLY	CA-C-N	7.27	130.32	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	106	GLY	C-N-CA	7.27	130.32	120.44
1	N	119	THR	CA-CB-OG1	7.27	120.50	109.60
1	e	196	PRO	N-CA-C	7.27	123.29	113.84
1	O	84	HIS	CB-CA-C	7.26	116.36	111.20
1	d	177	ALA	N-CA-C	7.26	120.76	110.23
1	P	54	THR	O-C-N	-7.26	114.42	122.12
1	j	154	ARG	CA-C-N	7.26	131.71	120.75
1	j	154	ARG	C-N-CA	7.26	131.71	120.75
1	f	195	ASN	CA-CB-CG	7.26	119.86	112.60
1	M	165	VAL	CB-CA-C	-7.25	102.21	112.22
1	m	144	MET	N-CA-CB	-7.25	99.49	110.01
1	h	126	VAL	N-CA-C	7.25	118.04	110.72
1	P	153	ILE	O-C-N	-7.25	114.71	122.61
1	Q	124	ILE	CA-C-O	7.25	124.31	119.38
1	D	20	LEU	CA-C-N	7.25	129.99	120.28
1	D	20	LEU	C-N-CA	7.25	129.99	120.28
1	a	116	GLY	O-C-N	7.25	129.14	122.18
1	C	21	ASN	CA-C-N	7.25	129.99	120.28
1	C	21	ASN	C-N-CA	7.25	129.99	120.28
1	R	186	THR	N-CA-C	7.24	118.82	111.07
1	A	125	PRO	CA-C-N	7.24	129.69	120.56
1	A	125	PRO	C-N-CA	7.24	129.69	120.56
1	D	33	SER	O-C-N	-7.24	116.74	121.88
1	Y	25	LYS	N-CA-C	7.24	119.25	111.36
1	5	22	ALA	CA-C-N	7.24	129.98	120.28
1	5	22	ALA	C-N-CA	7.24	129.98	120.28
1	m	122	PRO	CA-C-N	7.24	127.22	119.76
1	m	122	PRO	C-N-CA	7.24	127.22	119.76
1	j	62	HIS	N-CA-C	7.24	121.51	111.74
1	V	30	LYS	O-C-N	-7.24	113.66	122.34
1	d	171	THR	CA-C-N	7.24	130.56	120.29
1	d	171	THR	C-N-CA	7.24	130.56	120.29
1	E	99	PRO	N-CA-CB	-7.23	97.00	103.36
1	K	14	ALA	CA-C-N	7.22	130.24	120.63
1	K	14	ALA	C-N-CA	7.22	130.24	120.63
1	L	72	THR	CB-CA-C	-7.22	98.58	110.85
1	M	179	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	K	37	ILE	N-CA-CB	7.21	116.08	110.45
1	5	33	SER	CA-C-O	-7.21	112.93	120.87
1	G	102	SER	N-CA-CB	7.21	121.46	110.28
1	P	190	LEU	N-CA-CB	7.21	120.53	110.07
1	T	125	PRO	N-CD-CG	-7.21	92.38	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	41	SER	CA-C-N	7.21	130.25	120.44
1	R	41	SER	C-N-CA	7.21	130.25	120.44
1	d	138	LEU	N-CA-C	7.21	118.79	111.07
1	b	214	MET	N-CA-C	7.21	119.14	111.28
1	E	71	GLU	CA-C-N	7.20	129.93	120.28
1	E	71	GLU	C-N-CA	7.20	129.93	120.28
1	L	91	ILE	N-CA-C	-7.20	103.15	111.00
1	A	37	ILE	N-CA-CB	-7.20	104.83	110.45
1	N	21	ASN	N-CA-C	-7.19	103.37	111.07
1	M	83	LEU	O-C-N	-7.19	114.66	122.07
1	B	136	LEU	O-C-N	-7.19	114.67	122.07
1	W	74	ASN	CB-CG-OD1	7.19	135.17	120.80
1	5	181	VAL	N-CA-CB	7.19	118.96	110.55
1	W	117	TRP	N-CA-C	7.18	119.19	111.36
1	H	211	LEU	N-CA-C	7.18	120.02	111.33
1	e	5	ASN	CA-C-N	7.18	130.49	120.29
1	e	5	ASN	C-N-CA	7.18	130.49	120.29
1	B	66	MET	N-CA-C	7.18	119.97	111.71
1	e	148	THR	CA-C-O	7.18	128.47	120.43
1	S	82	ARG	O-C-N	-7.18	114.68	122.07
1	W	162	ARG	N-CA-C	7.18	119.10	111.28
1	j	37	ILE	CA-C-N	7.18	126.43	118.97
1	j	37	ILE	C-N-CA	7.18	126.43	118.97
1	l	217	ALA	N-CA-C	7.18	120.36	110.24
1	e	115	ILE	O-C-N	-7.18	114.62	121.87
1	6	143	ARG	NE-CZ-NH2	7.17	125.66	119.20
1	X	89	GLY	O-C-N	7.17	128.94	121.77
1	a	84	HIS	CG-CD2-NE2	7.17	114.37	107.20
1	c	144	MET	N-CA-C	7.17	119.72	111.11
1	6	203	LYS	O-C-N	-7.17	114.63	122.09
1	H	95	GLN	CA-C-O	7.17	126.97	119.51
1	A	195	ASN	CA-CB-CG	-7.17	105.43	112.60
1	H	206	GLY	O-C-N	-7.17	114.60	121.77
1	l	164	TYR	CA-C-N	7.17	130.28	120.46
1	l	164	TYR	C-N-CA	7.17	130.28	120.46
1	J	120	HIS	CA-C-N	7.16	130.83	122.52
1	J	120	HIS	C-N-CA	7.16	130.83	122.52
1	R	228	ALA	CA-C-N	7.16	132.81	122.35
1	R	228	ALA	C-N-CA	7.16	132.81	122.35
1	a	188	THR	O-C-N	-7.16	114.08	122.32
1	d	35	GLU	O-C-N	-7.16	113.98	122.15
1	L	210	THR	CA-C-N	7.16	130.59	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	210	THR	C-N-CA	7.16	130.59	120.28
1	D	76	GLU	N-CA-C	7.16	119.94	111.71
1	Y	32	PHE	CA-CB-CG	-7.16	106.64	113.80
1	X	82	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	d	125	PRO	CA-C-N	7.16	129.58	120.56
1	d	125	PRO	C-N-CA	7.16	129.58	120.56
1	h	197	ASP	CA-CB-CG	-7.16	105.44	112.60
1	N	150	ILE	N-CA-C	7.15	118.78	110.62
1	k	92	GLU	CA-C-N	7.15	128.78	119.84
1	k	92	GLU	C-N-CA	7.15	128.78	119.84
1	P	57	ASN	CA-CB-CG	-7.15	105.45	112.60
1	J	168	PHE	CB-CA-C	-7.15	99.37	110.81
1	A	67	GLN	O-C-N	-7.14	114.38	122.09
1	T	208	ALA	CA-C-O	7.14	128.32	120.82
1	I	102	SER	CA-C-N	7.14	130.42	120.29
1	I	102	SER	C-N-CA	7.14	130.42	120.29
1	Z	42	ALA	N-CA-C	7.14	119.92	111.71
1	b	81	ASP	CA-CB-CG	-7.14	105.46	112.60
1	k	154	ARG	O-C-N	-7.14	114.70	123.33
1	7	217	ALA	N-CA-CB	-7.14	100.53	110.38
1	T	82	ARG	NE-CZ-NH1	7.13	128.63	121.50
1	j	133	TRP	CG-CD2-CE3	-7.13	126.77	133.90
1	e	171	THR	CA-C-N	7.13	130.15	120.38
1	e	171	THR	C-N-CA	7.13	130.15	120.38
1	Y	95	GLN	OE1-CD-NE2	-7.13	115.47	122.60
1	V	26	VAL	CA-C-N	7.13	130.23	120.46
1	V	26	VAL	C-N-CA	7.13	130.23	120.46
1	m	202	LEU	CA-C-N	7.13	129.84	120.28
1	m	202	LEU	C-N-CA	7.13	129.84	120.28
1	6	227	LYS	CA-C-N	7.13	132.84	122.36
1	6	227	LYS	C-N-CA	7.13	132.84	122.36
1	K	178	SER	N-CA-CB	7.12	120.51	110.04
1	b	136	LEU	O-C-N	-7.12	114.57	122.12
1	U	33	SER	CA-C-N	7.12	128.74	119.84
1	U	33	SER	C-N-CA	7.12	128.74	119.84
1	E	166	ASP	N-CA-CB	-7.12	99.63	110.16
1	W	229	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	I	163	ASP	CA-C-N	7.12	129.69	120.44
1	I	163	ASP	C-N-CA	7.12	129.69	120.44
1	J	124	ILE	CB-CA-C	7.12	117.35	110.16
1	R	205	LEU	O-C-N	-7.12	112.80	122.33
1	m	148	THR	CB-CA-C	-7.11	99.98	109.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	88	ALA	CA-C-O	7.11	126.55	119.08
1	a	123	PRO	CA-C-N	-7.11	115.63	123.02
1	a	123	PRO	C-N-CA	-7.11	115.63	123.02
1	7	121	ASN	CA-C-O	-7.11	113.25	119.72
1	A	184	TRP	CE2-CD2-CE3	7.11	125.91	118.80
1	m	143	ARG	CA-C-O	7.11	128.08	120.55
1	D	149	SER	CA-C-O	7.10	129.14	121.11
1	I	167	ARG	N-CA-C	7.10	118.81	111.14
1	L	20	LEU	N-CA-C	7.10	119.02	111.28
1	7	3	VAL	CB-CA-C	-7.10	101.46	111.19
1	e	26	VAL	CA-C-N	7.10	129.51	120.56
1	e	26	VAL	C-N-CA	7.10	129.51	120.56
1	M	187	GLU	O-C-N	-7.10	114.36	122.03
1	I	117	TRP	N-CA-C	7.10	119.02	111.28
1	T	120	HIS	CA-CB-CG	7.10	120.90	113.80
1	X	45	GLU	CA-C-O	7.10	129.32	121.02
1	k	102	SER	N-CA-C	7.10	119.87	111.71
1	e	138	LEU	N-CA-CB	7.10	120.30	110.01
1	f	70	LYS	O-C-N	-7.10	114.60	122.12
1	g	114	GLN	CA-C-N	7.10	130.50	120.42
1	g	114	GLN	C-N-CA	7.10	130.50	120.42
1	F	181	VAL	O-C-N	-7.09	113.78	121.80
1	Y	208	ALA	CA-C-N	7.09	130.90	120.90
1	Y	208	ALA	C-N-CA	7.09	130.90	120.90
1	b	32	PHE	CA-C-O	7.09	128.30	120.92
1	H	135	ILE	N-CA-C	7.09	117.23	110.42
1	A	66	MET	CG-SD-CE	-7.09	85.30	100.90
1	V	212	GLU	N-CA-C	7.09	121.56	112.34
1	R	7	GLN	N-CA-C	7.09	121.44	111.52
1	b	180	GLU	O-C-N	-7.08	114.50	122.08
1	g	92	GLU	CA-C-N	7.08	127.12	119.89
1	g	92	GLU	C-N-CA	7.08	127.12	119.89
1	A	48	THR	N-CA-CB	7.08	119.60	110.04
1	N	24	VAL	O-C-N	-7.08	114.53	121.83
1	Q	191	VAL	CA-C-O	7.08	127.61	119.89
1	h	33	SER	O-C-N	-7.08	116.31	121.83
1	W	202	LEU	N-CA-C	7.08	119.89	111.33
1	K	62	HIS	CA-CB-CG	-7.08	106.72	113.80
1	I	209	ALA	N-CA-C	7.07	119.66	110.53
1	Z	124	ILE	O-C-N	-7.07	116.92	121.37
1	T	129	ILE	CA-C-N	7.07	129.75	120.28
1	T	129	ILE	C-N-CA	7.07	129.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	145	TYR	CB-CG-CD1	-7.07	110.20	120.80
1	Y	121	ASN	CB-CA-C	-7.07	100.23	110.13
1	K	34	PRO	N-CA-C	7.07	123.10	113.98
1	T	117	TRP	CA-C-N	7.07	131.05	120.31
1	T	117	TRP	C-N-CA	7.07	131.05	120.31
1	g	182	LYS	N-CA-CB	7.07	120.51	110.12
1	A	30	LYS	N-CA-C	7.07	122.07	113.17
1	K	12	HIS	CA-CB-CG	7.06	120.86	113.80
1	T	81	ASP	CA-C-O	7.06	128.24	120.82
1	Z	210	THR	N-CA-C	7.06	119.95	110.35
1	c	102	SER	N-CA-C	7.06	119.83	111.71
1	D	52	LEU	N-CA-C	-7.06	103.51	111.14
1	Y	226	HIS	CE1-NE2-CD2	-7.06	101.94	109.00
1	E	161	PHE	CA-C-O	7.06	128.14	119.11
1	6	84	HIS	CB-CG-ND1	7.06	133.29	122.70
1	h	132	ARG	CA-C-N	7.06	129.61	120.44
1	h	132	ARG	C-N-CA	7.06	129.61	120.44
1	H	89	GLY	CA-C-N	7.06	128.66	119.84
1	H	89	GLY	C-N-CA	7.06	128.66	119.84
1	L	2	ILE	N-CA-C	7.05	119.28	109.55
1	N	20	LEU	CA-C-N	7.05	129.61	120.44
1	N	20	LEU	C-N-CA	7.05	129.61	120.44
1	V	69	LEU	N-CA-C	7.05	119.58	111.11
1	C	106	GLY	CA-C-N	7.05	129.61	120.44
1	C	106	GLY	C-N-CA	7.05	129.61	120.44
1	J	120	HIS	CE1-NE2-CD2	-7.05	101.95	109.00
1	L	190	LEU	CA-C-N	7.05	129.59	120.56
1	L	190	LEU	C-N-CA	7.05	129.59	120.56
1	Y	72	THR	N-CA-CB	7.05	120.64	110.06
1	F	128	GLU	CA-C-N	7.05	129.58	120.56
1	F	128	GLU	C-N-CA	7.05	129.58	120.56
1	6	12	HIS	CE1-NE2-CD2	-7.05	101.95	109.00
1	7	134	ILE	CA-C-N	7.05	131.85	120.30
1	7	134	ILE	C-N-CA	7.05	131.85	120.30
1	k	183	ASN	CA-C-O	-7.04	113.08	120.55
1	R	102	SER	CA-C-N	7.04	129.59	120.44
1	R	102	SER	C-N-CA	7.04	129.59	120.44
1	P	85	PRO	N-CA-CB	7.04	109.61	103.27
1	c	195	ASN	N-CA-C	7.04	120.52	110.24
1	G	6	LEU	N-CA-C	-7.04	104.67	113.18
1	L	106	GLY	CA-C-N	7.04	130.02	120.38
1	L	106	GLY	C-N-CA	7.04	130.02	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	87	HIS	CE1-NE2-CD2	-7.04	101.97	109.00
1	a	226	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	M	55	MET	N-CA-C	7.03	118.94	111.28
1	L	119	THR	CA-CB-OG1	7.03	120.14	109.60
1	M	226	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	R	195	ASN	CA-C-N	7.03	128.63	119.84
1	R	195	ASN	C-N-CA	7.03	128.63	119.84
1	b	117	TRP	CB-CG-CD2	-7.03	116.96	126.80
1	l	158	LYS	N-CA-CB	7.03	121.91	111.51
1	F	55	MET	CG-SD-CE	-7.03	85.44	100.90
1	T	84	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	H	173	ARG	CA-C-N	7.03	130.26	120.29
1	H	173	ARG	C-N-CA	7.03	130.26	120.29
1	i	120	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	k	92	GLU	N-CA-CB	-7.02	101.71	109.72
1	G	161	PHE	CA-C-O	7.02	127.99	120.55
1	5	19	THR	N-CA-CB	7.02	120.25	110.07
1	b	183	ASN	CA-C-O	7.02	128.04	119.97
1	M	148	THR	O-C-N	-7.02	115.48	123.48
1	C	74	ASN	O-C-N	-7.01	114.69	122.12
1	C	125	PRO	CA-C-N	7.01	130.42	120.53
1	C	125	PRO	C-N-CA	7.01	130.42	120.53
1	C	171	THR	CA-C-O	7.01	127.92	120.70
1	E	67	GLN	N-CA-C	7.01	119.00	111.36
1	f	52	LEU	N-CA-C	7.01	119.53	111.11
1	R	211	LEU	CA-C-O	-7.01	112.17	120.10
1	i	120	HIS	ND1-CE1-NE2	7.01	115.41	108.40
1	f	84	HIS	CA-C-N	7.01	128.61	119.84
1	f	84	HIS	C-N-CA	7.01	128.61	119.84
1	S	155	GLN	O-C-N	-7.01	114.34	122.89
1	a	196	PRO	N-CA-CB	7.01	110.79	103.15
1	I	6	LEU	CA-C-N	7.01	130.00	120.54
1	I	6	LEU	C-N-CA	7.01	130.00	120.54
1	P	81	ASP	N-CA-C	7.01	119.95	111.82
1	B	146	SER	O-C-N	-7.01	113.26	121.32
1	Y	173	ARG	CA-C-N	7.01	130.96	120.31
1	Y	173	ARG	C-N-CA	7.01	130.96	120.31
1	B	33	SER	N-CA-C	7.00	120.17	110.01
1	W	227	LYS	N-CA-C	-7.00	104.30	112.92
1	l	173	ARG	N-CA-C	7.00	118.92	111.28
1	O	86	VAL	CA-C-N	7.00	130.69	120.82
1	O	86	VAL	C-N-CA	7.00	130.69	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	68	MET	CG-SD-CE	-7.00	85.49	100.90
1	j	48	THR	N-CA-CB	7.00	118.65	109.55
1	g	186	THR	CA-C-N	7.00	130.36	120.28
1	g	186	THR	C-N-CA	7.00	130.36	120.28
1	F	176	GLN	CA-CB-CG	7.00	128.10	114.10
1	g	47	ALA	N-CA-C	7.00	119.87	110.35
1	b	197	ASP	N-CA-C	7.00	118.56	111.07
1	D	120	HIS	N-CA-C	7.00	119.60	110.43
1	Q	103	ASP	CA-C-N	7.00	130.04	120.46
1	Q	103	ASP	C-N-CA	7.00	130.04	120.46
1	T	18	ARG	NE-CZ-NH1	6.99	128.49	121.50
1	V	165	VAL	CA-C-N	6.99	129.65	120.28
1	V	165	VAL	C-N-CA	6.99	129.65	120.28
1	k	67	GLN	OE1-CD-NE2	-6.99	115.61	122.60
1	B	54	THR	N-CA-CB	6.99	120.39	110.12
1	R	34	PRO	O-C-N	-6.99	113.20	122.22
1	D	49	PRO	CB-CA-C	6.99	124.80	112.64
1	i	53	ASN	CA-CB-CG	-6.99	105.61	112.60
1	f	43	LEU	N-CA-C	6.99	118.55	111.07
1	g	102	SER	N-CA-C	6.99	119.74	111.71
1	K	128	GLU	CA-C-O	6.98	128.00	119.97
1	m	90	PRO	CA-C-N	6.98	132.19	121.71
1	m	90	PRO	C-N-CA	6.98	132.19	121.71
1	k	173	ARG	CA-C-O	6.98	127.95	120.55
1	h	163	ASP	N-CA-C	-6.98	105.69	114.56
1	G	42	ALA	O-C-N	6.98	129.26	122.07
1	U	55	MET	CA-C-N	6.98	129.94	120.38
1	U	55	MET	C-N-CA	6.98	129.94	120.38
1	Y	87	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
1	b	212	GLU	N-CA-C	-6.98	103.60	111.14
1	j	189	LEU	N-CA-C	6.98	119.91	111.82
1	a	81	ASP	CB-CA-C	-6.97	99.21	110.79
1	5	161	PHE	N-CA-C	6.97	118.88	111.28
1	L	159	GLU	O-C-N	-6.97	113.30	121.32
1	d	125	PRO	N-CA-C	-6.97	98.11	112.47
1	D	164	TYR	N-CA-C	6.97	118.53	111.07
1	Y	201	ILE	N-CA-CB	6.97	118.25	110.51
1	f	114	GLN	N-CA-C	-6.97	103.76	111.36
1	B	209	ALA	CA-C-N	6.96	130.60	120.71
1	B	209	ALA	C-N-CA	6.96	130.60	120.71
1	k	113	GLU	CA-C-O	-6.96	113.53	120.70
1	I	165	VAL	CA-C-N	6.96	129.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	165	VAL	C-N-CA	6.96	129.49	120.44
1	b	96	MET	O-C-N	-6.96	115.17	123.03
1	C	117	TRP	N-CA-C	6.96	118.52	111.07
1	Y	62	HIS	CA-CB-CG	6.96	120.76	113.80
1	A	7	GLN	O-C-N	-6.96	114.88	123.36
1	G	59	VAL	CB-CA-C	-6.96	102.62	112.22
1	H	103	ASP	N-CA-C	6.95	118.86	111.28
1	K	130	TYR	CA-C-N	6.95	129.93	120.54
1	K	130	TYR	C-N-CA	6.95	129.93	120.54
1	N	184	TRP	CA-C-N	6.95	130.53	120.38
1	N	184	TRP	C-N-CA	6.95	130.53	120.38
1	X	69	LEU	N-CA-CB	-6.95	99.50	110.28
1	c	92	GLU	N-CA-C	6.95	119.67	110.08
1	K	26	VAL	CA-C-O	-6.95	113.80	121.17
1	7	170	LYS	CA-C-N	6.95	130.16	120.29
1	7	170	LYS	C-N-CA	6.95	130.16	120.29
1	I	162	ARG	CA-C-N	6.95	129.47	120.44
1	I	162	ARG	C-N-CA	6.95	129.47	120.44
1	X	175	GLU	CA-C-N	6.95	129.89	120.44
1	X	175	GLU	C-N-CA	6.95	129.89	120.44
1	l	171	THR	N-CA-C	6.95	118.65	111.14
1	g	76	GLU	CA-C-N	6.95	129.59	120.28
1	g	76	GLU	C-N-CA	6.95	129.59	120.28
1	W	179	GLN	N-CA-C	6.95	118.50	111.07
1	G	129	ILE	CA-C-O	-6.95	113.49	120.85
1	T	95	GLN	O-C-N	-6.95	114.79	123.05
1	f	176	GLN	CA-C-O	6.95	127.79	119.59
1	B	202	LEU	CA-C-N	6.94	129.58	120.28
1	B	202	LEU	C-N-CA	6.94	129.58	120.28
1	W	169	TYR	CA-CB-CG	-6.94	101.40	113.90
1	g	90	PRO	N-CA-CB	-6.94	97.14	103.25
1	H	147	PRO	O-C-N	6.94	131.70	122.89
1	7	77	ALA	CA-C-N	6.94	130.14	120.29
1	7	77	ALA	C-N-CA	6.94	130.14	120.29
1	E	12	HIS	CB-CG-ND1	6.94	133.11	122.70
1	K	214	MET	O-C-N	-6.94	114.24	122.15
1	R	214	MET	CA-C-N	6.94	129.58	120.28
1	R	214	MET	C-N-CA	6.94	129.58	120.28
1	6	163	ASP	CA-C-N	6.94	129.87	120.44
1	6	163	ASP	C-N-CA	6.94	129.87	120.44
1	C	68	MET	CA-C-O	6.93	127.90	120.55
1	Q	9	GLN	CA-C-O	-6.93	111.51	119.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	141	ILE	N-CA-C	6.93	117.69	110.62
1	B	59	VAL	CA-CB-CG1	6.93	122.18	110.40
1	k	37	ILE	CA-C-N	6.93	126.18	118.97
1	k	37	ILE	C-N-CA	6.93	126.18	118.97
1	C	91	ILE	N-CA-C	6.93	120.73	109.78
1	A	117	TRP	CA-C-N	6.93	130.84	120.31
1	A	117	TRP	C-N-CA	6.93	130.84	120.31
1	T	143	ARG	CA-C-N	6.92	134.77	121.54
1	T	143	ARG	C-N-CA	6.92	134.77	121.54
1	K	182	LYS	N-CA-C	6.92	118.47	111.07
1	5	215	MET	N-CA-C	6.92	119.85	111.82
1	7	164	TYR	CA-C-N	6.92	129.94	120.46
1	7	164	TYR	C-N-CA	6.92	129.94	120.46
1	j	175	GLU	CA-C-N	6.92	132.45	122.35
1	j	175	GLU	C-N-CA	6.92	132.45	122.35
1	m	88	ALA	N-CA-CB	-6.92	99.59	110.46
1	m	132	ARG	O-C-N	-6.92	114.62	122.09
1	C	82	ARG	N-CA-C	-6.92	104.46	113.17
1	I	10	MET	CG-SD-CE	-6.92	85.69	100.90
1	I	57	ASN	CA-CB-CG	-6.91	105.69	112.60
1	X	189	LEU	CA-C-N	6.91	130.11	120.29
1	X	189	LEU	C-N-CA	6.91	130.11	120.29
1	R	221	VAL	CA-C-N	-6.91	115.18	122.30
1	R	221	VAL	C-N-CA	-6.91	115.18	122.30
1	i	226	HIS	CA-CB-CG	6.91	120.71	113.80
1	6	123	PRO	CB-CA-C	6.91	120.37	111.46
1	l	174	ALA	CA-C-O	6.91	127.87	120.55
1	Y	166	ASP	CA-C-N	6.90	130.09	120.29
1	Y	166	ASP	C-N-CA	6.90	130.09	120.29
1	Z	203	LYS	N-CA-C	6.90	119.65	111.71
1	5	104	ILE	N-CA-CB	6.90	120.93	110.58
1	l	16	SER	N-CA-C	6.90	119.42	109.48
1	A	203	LYS	O-C-N	-6.90	114.81	122.12
1	O	79	GLU	N-CA-C	6.90	118.45	111.07
1	R	73	ILE	N-CA-C	6.90	117.69	110.72
1	d	48	THR	CA-C-N	6.90	128.46	119.84
1	d	48	THR	C-N-CA	6.90	128.46	119.84
1	N	62	HIS	N-CA-C	6.90	120.99	112.58
1	R	74	ASN	CA-CB-CG	-6.89	105.70	112.60
1	Z	48	THR	N-CA-CB	6.89	117.74	109.74
1	N	90	PRO	CA-C-N	6.89	129.24	120.56
1	N	90	PRO	C-N-CA	6.89	129.24	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	226	HIS	O-C-N	-6.89	113.02	122.46
1	f	35	GLU	CA-C-N	6.89	130.20	120.42
1	f	35	GLU	C-N-CA	6.89	130.20	120.42
1	U	11	VAL	O-C-N	-6.89	115.10	122.95
1	7	157	PRO	N-CA-C	6.88	123.10	113.53
1	F	23	TRP	CA-C-N	6.88	130.23	120.53
1	F	23	TRP	C-N-CA	6.88	130.23	120.53
1	Q	135	ILE	N-CA-CB	6.88	118.15	110.51
1	A	191	VAL	N-CA-C	6.88	117.00	110.53
1	S	81	ASP	CA-CB-CG	-6.88	105.72	112.60
1	C	181	VAL	CA-C-O	6.87	128.10	120.95
1	j	226	HIS	CA-C-O	6.87	126.43	119.97
1	e	37	ILE	CA-C-O	-6.87	114.08	118.69
1	I	153	ILE	N-CA-CB	6.87	118.81	111.46
1	K	149	SER	N-CA-CB	6.87	122.10	110.49
1	6	14	ALA	CB-CA-C	6.87	119.26	109.71
1	d	192	GLN	CA-C-O	6.87	127.70	120.42
1	B	161	PHE	CA-C-N	6.87	129.79	120.38
1	B	161	PHE	C-N-CA	6.87	129.79	120.38
1	M	150	ILE	N-CA-C	6.87	117.63	110.62
1	P	3	VAL	CB-CA-C	-6.87	100.11	110.55
1	5	185	MET	N-CA-CB	-6.87	99.72	110.30
1	V	188	THR	O-C-N	-6.87	114.42	122.32
1	H	226	HIS	CE1-NE2-CD2	-6.87	102.14	109.00
1	i	147	PRO	N-CA-CB	6.87	109.37	103.19
1	L	53	ASN	CA-CB-CG	-6.86	105.74	112.60
1	N	181	VAL	CA-C-N	6.86	129.47	120.28
1	N	181	VAL	C-N-CA	6.86	129.47	120.28
1	d	101	GLY	CA-C-N	6.86	129.36	120.44
1	d	101	GLY	C-N-CA	6.86	129.36	120.44
1	5	152	ASP	N-CA-C	6.86	120.91	112.54
1	E	48	THR	N-CA-CB	6.86	119.93	110.05
1	G	63	GLN	N-CA-C	6.86	118.75	111.28
1	X	29	GLU	N-CA-C	6.86	118.64	111.03
1	X	181	VAL	CB-CA-C	-6.86	103.04	112.02
1	V	79	GLU	CB-CG-CD	6.86	124.25	112.60
1	6	188	THR	CA-C-N	6.86	130.15	120.28
1	6	188	THR	C-N-CA	6.86	130.15	120.28
1	5	130	TYR	CA-C-N	6.85	129.77	120.38
1	5	130	TYR	C-N-CA	6.85	129.77	120.38
1	B	62	HIS	ND1-CG-CD2	6.85	112.95	106.10
1	G	54	THR	N-CA-C	-6.85	103.89	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	195	ASN	N-CA-CB	6.85	119.23	109.78
1	A	95	GLN	CB-CG-CD	-6.84	100.97	112.60
1	6	207	PRO	CA-C-O	6.84	127.71	118.81
1	L	200	THR	O-C-N	-6.84	114.87	122.12
1	M	172	LEU	N-CA-CB	6.84	120.18	110.12
1	f	206	GLY	CA-C-N	6.84	127.41	119.47
1	f	206	GLY	C-N-CA	6.84	127.41	119.47
1	J	77	ALA	O-C-N	-6.84	115.03	122.07
1	T	197	ASP	CA-CB-CG	-6.84	105.76	112.60
1	h	210	THR	N-CA-CB	6.84	120.09	110.04
1	B	195	ASN	CA-C-N	6.84	126.80	119.28
1	B	195	ASN	C-N-CA	6.84	126.80	119.28
1	c	106	GLY	CA-C-N	6.83	130.00	120.29
1	c	106	GLY	C-N-CA	6.83	130.00	120.29
1	R	133	TRP	CE2-CD2-CE3	6.83	125.63	118.80
1	Y	126	VAL	CA-C-O	6.83	128.09	120.85
1	P	166	ASP	N-CA-C	6.83	118.73	111.28
1	c	98	GLU	CA-C-O	-6.83	113.07	120.17
1	V	93	PRO	N-CA-C	6.83	122.39	111.26
1	h	38	PRO	CA-C-N	6.83	129.32	120.44
1	h	38	PRO	C-N-CA	6.83	129.32	120.44
1	I	199	LYS	N-CA-CB	-6.83	100.09	110.12
1	i	43	LEU	N-CA-C	6.83	118.72	111.28
1	g	67	GLN	CA-C-N	6.83	129.31	120.44
1	g	67	GLN	C-N-CA	6.83	129.31	120.44
1	U	18	ARG	NE-CZ-NH2	6.82	125.34	119.20
1	g	51	ASP	CA-CB-CG	-6.82	105.78	112.60
1	d	215	MET	CA-C-N	6.82	129.97	120.29
1	d	215	MET	C-N-CA	6.82	129.97	120.29
1	D	226	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	R	200	THR	N-CA-CB	6.82	120.29	110.06
1	E	191	VAL	O-C-N	-6.82	114.81	121.83
1	k	230	VAL	CB-CA-C	-6.82	100.11	111.29
1	g	141	ILE	N-CA-CB	6.82	118.52	110.55
1	G	215	MET	N-CA-CB	-6.81	99.08	110.39
1	E	17	PRO	O-C-N	6.81	131.84	122.64
1	I	100	ARG	CG-CD-NE	-6.81	97.01	112.00
1	M	92	GLU	CA-C-O	-6.81	114.78	120.71
1	I	198	CYS	CA-C-O	6.81	127.77	120.55
1	L	96	MET	CG-SD-CE	-6.81	85.92	100.90
1	I	221	VAL	O-C-N	-6.81	114.82	121.83
1	K	37	ILE	CA-C-N	6.81	126.32	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	37	ILE	C-N-CA	6.81	126.32	119.24
1	c	164	TYR	CA-C-N	6.81	129.79	120.46
1	c	164	TYR	C-N-CA	6.81	129.79	120.46
1	e	192	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	g	33	SER	O-C-N	-6.81	117.05	121.88
1	B	97	ARG	N-CA-C	6.81	119.88	110.35
1	B	194	ALA	N-CA-CB	-6.80	100.08	110.42
1	H	183	ASN	N-CA-C	-6.80	104.45	112.89
1	6	51	ASP	N-CA-C	6.80	119.71	111.82
1	a	133	TRP	N-CA-CB	6.80	119.87	110.01
1	C	187	GLU	O-C-N	-6.80	114.40	122.15
1	O	139	ASN	CA-CB-CG	6.80	119.40	112.60
1	I	139	ASN	CA-CB-CG	-6.80	105.80	112.60
1	b	37	ILE	CA-C-O	-6.80	110.84	119.95
1	j	129	ILE	CB-CA-C	6.80	120.40	111.70
1	d	155	GLN	CA-C-O	6.80	126.36	119.97
1	f	41	SER	CA-C-N	6.80	129.94	120.29
1	f	41	SER	C-N-CA	6.80	129.94	120.29
1	c	57	ASN	CA-CB-CG	-6.80	105.80	112.60
1	S	32	PHE	CB-CA-C	6.80	122.12	110.77
1	5	5	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	k	78	ALA	CA-C-N	6.80	129.28	120.44
1	k	78	ALA	C-N-CA	6.80	129.28	120.44
1	O	190	LEU	N-CA-C	6.79	119.26	111.11
1	b	151	LEU	N-CA-C	6.79	120.45	111.75
1	P	24	VAL	O-C-N	-6.79	114.83	121.83
1	X	50	GLN	CA-C-N	6.79	129.38	120.28
1	X	50	GLN	C-N-CA	6.79	129.38	120.28
1	U	50	GLN	N-CA-C	6.79	118.68	111.28
1	V	52	LEU	CA-C-N	6.79	129.26	120.44
1	V	52	LEU	C-N-CA	6.79	129.26	120.44
1	D	191	VAL	CA-C-O	-6.79	112.93	120.46
1	T	99	PRO	CB-CA-C	-6.79	101.24	110.60
1	W	228	ALA	N-CA-CB	-6.79	100.40	110.17
1	Z	179	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	5	21	ASN	N-CA-C	6.79	118.76	111.36
1	m	178	SER	CA-C-N	6.79	129.68	120.38
1	m	178	SER	C-N-CA	6.79	129.68	120.38
1	T	210	THR	CA-C-N	6.78	129.67	120.38
1	T	210	THR	C-N-CA	6.78	129.67	120.38
1	h	37	ILE	N-CA-C	6.78	120.49	112.35
1	T	186	THR	O-C-N	-6.78	114.42	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	201	ILE	N-CA-CB	6.78	119.25	110.57
1	N	162	ARG	N-CA-CB	6.78	121.94	110.49
1	m	97	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	a	71	GLU	N-CA-C	6.78	119.53	111.33
1	6	82	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	k	69	LEU	CA-C-O	6.77	127.73	120.55
1	L	29	GLU	N-CA-C	6.77	119.66	111.40
1	6	218	CYS	O-C-N	-6.77	113.58	122.59
1	m	6	LEU	O-C-N	-6.77	115.50	123.22
1	E	219	GLN	OE1-CD-NE2	-6.77	115.83	122.60
1	S	201	ILE	N-CA-C	6.77	116.92	110.42
1	d	115	ILE	CA-C-N	6.77	127.61	120.03
1	d	115	ILE	C-N-CA	6.77	127.61	120.03
1	D	74	ASN	CA-C-N	6.77	129.24	120.44
1	D	74	ASN	C-N-CA	6.77	129.24	120.44
1	O	73	ILE	CB-CA-C	-6.77	103.00	112.14
1	c	114	GLN	N-CA-C	6.77	119.23	111.11
1	d	74	ASN	CA-CB-CG	-6.77	105.83	112.60
1	L	195	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	V	147	PRO	O-C-N	6.76	131.78	122.38
1	c	87	HIS	CG-CD2-NE2	6.76	113.97	107.20
1	U	33	SER	CA-C-O	-6.76	113.03	121.01
1	m	209	ALA	N-CA-C	6.76	119.82	110.35
1	U	35	GLU	N-CA-C	6.76	118.73	111.36
1	k	184	TRP	CE2-CD2-CE3	6.76	125.56	118.80
1	O	133	TRP	O-C-N	-6.76	114.45	122.15
1	B	54	THR	CA-C-N	6.76	129.33	120.28
1	B	54	THR	C-N-CA	6.76	129.33	120.28
1	7	117	TRP	CG-CD2-CE3	-6.76	127.14	133.90
1	G	219	GLN	CA-C-N	6.75	127.62	119.99
1	G	219	GLN	C-N-CA	6.75	127.62	119.99
1	Y	146	SER	CA-C-O	-6.75	113.40	119.75
1	m	87	HIS	CE1-NE2-CD2	-6.75	102.25	109.00
1	H	133	TRP	N-CA-C	6.75	118.64	111.28
1	M	62	HIS	ND1-CG-CD2	6.75	112.85	106.10
1	b	86	VAL	N-CA-C	6.75	119.36	109.63
1	h	186	THR	N-CA-C	6.75	119.26	111.02
1	F	35	GLU	N-CA-C	6.75	119.47	111.71
1	G	18	ARG	NE-CZ-NH2	6.75	125.28	119.20
1	R	134	ILE	CA-C-N	6.75	131.90	120.29
1	R	134	ILE	C-N-CA	6.75	131.90	120.29
1	A	81	ASP	CA-C-N	6.75	129.65	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	81	ASP	C-N-CA	6.75	129.65	120.54
1	G	193	ASN	CB-CG-ND2	-6.75	106.28	116.40
1	7	167	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	d	120	HIS	CG-CD2-NE2	6.75	113.95	107.20
1	f	47	ALA	N-CA-C	6.75	120.13	109.81
1	A	40	PHE	CA-CB-CG	-6.74	107.06	113.80
1	f	143	ARG	N-CA-C	6.74	118.28	111.07
1	F	26	VAL	O-C-N	-6.74	115.31	121.91
1	M	13	GLN	CG-CD-NE2	6.74	126.51	116.40
1	V	68	MET	O-C-N	-6.74	114.98	122.12
1	j	178	SER	N-CA-CB	6.74	121.07	110.56
1	g	160	PRO	CA-C-N	6.74	129.86	120.29
1	g	160	PRO	C-N-CA	6.74	129.86	120.29
1	R	228	ALA	CA-C-O	-6.74	112.22	119.97
1	H	201	ILE	N-CA-C	6.73	116.86	110.53
1	S	121	ASN	CA-CB-CG	-6.73	105.87	112.60
1	Y	2	ILE	CA-C-N	6.73	132.25	122.69
1	Y	2	ILE	C-N-CA	6.73	132.25	122.69
1	7	120	HIS	N-CA-C	6.73	118.69	110.41
1	j	106	GLY	O-C-N	6.73	130.98	122.43
1	j	130	TYR	CA-C-O	6.73	127.68	120.55
1	G	64	ALA	CA-C-N	6.73	129.84	120.29
1	G	64	ALA	C-N-CA	6.73	129.84	120.29
1	J	28	GLU	CA-C-O	-6.73	113.77	120.70
1	J	133	TRP	CA-C-N	6.73	129.68	120.46
1	J	133	TRP	C-N-CA	6.73	129.68	120.46
1	b	25	LYS	N-CA-C	6.73	118.27	111.07
1	k	111	LEU	CA-C-N	6.73	129.29	120.28
1	k	111	LEU	C-N-CA	6.73	129.29	120.28
1	7	12	HIS	CG-CD2-NE2	6.73	113.93	107.20
1	B	55	MET	O-C-N	-6.72	114.99	122.12
1	i	36	VAL	CA-C-N	6.72	124.48	120.24
1	i	36	VAL	C-N-CA	6.72	124.48	120.24
1	7	143	ARG	CA-C-N	6.72	129.29	120.28
1	7	143	ARG	C-N-CA	6.72	129.29	120.28
1	O	185	MET	CG-SD-CE	-6.72	86.11	100.90
1	m	67	GLN	CA-C-O	6.72	127.69	120.10
1	S	103	ASP	CA-C-O	6.72	127.54	120.42
1	X	152	ASP	CA-CB-CG	-6.72	105.88	112.60
1	i	165	VAL	CA-C-N	6.72	129.17	120.44
1	i	165	VAL	C-N-CA	6.72	129.17	120.44
1	g	150	ILE	CA-C-O	6.72	127.76	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	162	ARG	NE-CZ-NH1	6.71	128.22	121.50
1	G	146	SER	CA-C-N	6.71	127.26	119.47
1	G	146	SER	C-N-CA	6.71	127.26	119.47
1	6	200	THR	CA-CB-CG2	-6.71	99.08	110.50
1	k	120	HIS	CB-CG-CD2	-6.71	122.47	131.20
1	H	146	SER	N-CA-C	6.71	124.65	109.81
1	H	215	MET	O-C-N	-6.71	115.00	122.12
1	m	111	LEU	N-CA-C	6.71	118.60	111.28
1	7	97	ARG	O-C-N	-6.71	114.94	122.86
1	C	22	ALA	N-CA-C	6.71	118.59	111.28
1	e	137	GLY	CA-C-N	6.71	129.16	120.44
1	e	137	GLY	C-N-CA	6.71	129.16	120.44
1	H	96	MET	N-CA-CB	6.71	121.95	111.56
1	L	223	GLY	O-C-N	-6.71	115.06	121.77
1	e	229	ARG	CB-CA-C	6.71	120.85	109.72
1	J	87	HIS	CA-CB-CG	-6.70	107.10	113.80
1	Q	167	ARG	N-CA-C	6.70	118.24	111.07
1	i	23	TRP	N-CA-C	6.70	119.16	111.11
1	B	89	GLY	CA-C-N	6.70	128.22	119.84
1	B	89	GLY	C-N-CA	6.70	128.22	119.84
1	D	51	ASP	CA-C-N	6.70	129.55	120.44
1	D	51	ASP	C-N-CA	6.70	129.55	120.44
1	L	163	ASP	CA-C-N	6.70	129.26	120.28
1	L	163	ASP	C-N-CA	6.70	129.26	120.28
1	5	55	MET	N-CA-C	6.70	118.66	111.36
1	m	20	LEU	CA-C-N	6.70	129.15	120.44
1	m	20	LEU	C-N-CA	6.70	129.15	120.44
1	f	76	GLU	N-CA-C	6.70	118.58	111.28
1	I	96	MET	O-C-N	-6.69	114.73	123.16
1	X	162	ARG	N-CA-C	6.69	118.57	111.28
1	T	133	TRP	CA-C-O	6.69	127.71	120.55
1	U	168	PHE	N-CA-C	6.69	118.57	111.28
1	Y	137	GLY	N-CA-C	6.69	120.75	112.73
1	G	215	MET	CA-C-N	6.68	129.78	120.29
1	G	215	MET	C-N-CA	6.68	129.78	120.29
1	V	199	LYS	N-CA-C	6.68	119.13	111.11
1	W	117	TRP	N-CA-CB	-6.68	100.27	110.16
1	S	158	LYS	O-C-N	6.68	131.06	122.04
1	V	173	ARG	N-CA-C	6.68	119.39	111.71
1	X	50	GLN	N-CA-CB	6.68	119.70	110.01
1	A	160	PRO	N-CA-C	6.68	121.69	111.34
1	E	28	GLU	O-C-N	-6.68	115.04	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	23	TRP	CA-C-N	6.68	129.91	120.42
1	H	23	TRP	C-N-CA	6.68	129.91	120.42
1	b	210	THR	N-CA-CB	6.68	119.53	110.38
1	d	78	ALA	N-CA-C	-6.68	104.61	112.89
1	O	42	ALA	O-C-N	-6.68	115.04	122.12
1	Y	80	TRP	N-CA-C	6.68	118.56	111.28
1	l	91	ILE	CA-CB-CG1	6.68	121.75	110.40
1	C	62	HIS	N-CA-C	6.67	120.29	111.28
1	l	3	VAL	CA-C-O	6.67	126.36	119.35
1	D	120	HIS	CA-CB-CG	6.67	120.47	113.80
1	j	120	HIS	CB-CG-CD2	-6.67	122.53	131.20
1	g	197	ASP	N-CA-C	-6.67	105.17	113.38
1	I	105	ALA	CA-C-O	6.67	127.72	119.05
1	W	198	CYS	CA-C-N	6.67	129.22	120.28
1	W	198	CYS	C-N-CA	6.67	129.22	120.28
1	f	34	PRO	N-CA-C	-6.67	105.26	114.27
1	i	16	SER	O-C-N	-6.67	114.61	121.28
1	f	120	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
1	F	110	THR	O-C-N	-6.67	115.47	122.94
1	a	80	TRP	CA-C-O	6.67	127.64	119.97
1	c	79	GLU	CA-C-N	6.67	129.76	120.29
1	c	79	GLU	C-N-CA	6.67	129.76	120.29
1	i	69	LEU	CA-C-O	6.67	127.48	120.42
1	A	25	LYS	N-CA-C	6.66	119.39	111.33
1	B	134	ILE	CB-CA-C	-6.66	103.31	112.24
1	M	5	ASN	CA-CB-CG	6.66	119.26	112.60
1	b	137	GLY	CA-C-N	6.66	129.21	120.28
1	b	137	GLY	C-N-CA	6.66	129.21	120.28
1	6	222	GLY	CA-C-N	6.66	132.32	121.87
1	6	222	GLY	C-N-CA	6.66	132.32	121.87
1	c	202	LEU	N-CA-C	6.66	118.19	111.07
1	E	182	LYS	N-CA-CB	6.65	119.66	110.01
1	5	82	ARG	CA-C-N	6.65	129.09	120.44
1	5	82	ARG	C-N-CA	6.65	129.09	120.44
1	k	62	HIS	ND1-CG-CD2	6.65	112.75	106.10
1	e	179	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	M	215	MET	CA-C-O	-6.65	113.37	120.42
1	5	27	VAL	O-C-N	-6.65	114.98	121.83
1	J	81	ASP	N-CA-C	6.65	119.09	111.11
1	i	84	HIS	CA-CB-CG	6.65	120.45	113.80
1	M	130	TYR	O-C-N	-6.65	114.57	122.15
1	5	65	ALA	N-CA-CB	6.65	120.00	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	109	SER	CA-C-O	6.64	128.30	120.66
1	V	54	THR	O-C-N	-6.64	115.08	122.12
1	A	82	ARG	N-CA-C	6.64	119.08	111.11
1	E	99	PRO	CB-CA-C	6.64	119.50	111.46
1	L	50	GLN	N-CA-CB	6.64	119.89	110.12
1	V	102	SER	CA-C-N	6.64	129.18	120.28
1	V	102	SER	C-N-CA	6.64	129.18	120.28
1	P	95	GLN	OE1-CD-NE2	6.64	129.24	122.60
1	V	76	GLU	N-CA-C	6.64	119.35	111.71
1	h	183	ASN	CA-CB-CG	-6.64	105.96	112.60
1	A	182	LYS	CA-C-O	6.64	127.60	119.97
1	S	84	HIS	ND1-CE1-NE2	6.64	115.04	108.40
1	l	188	THR	N-CA-C	-6.64	103.04	112.13
1	m	5	ASN	CA-C-O	6.64	127.58	119.81
1	D	17	PRO	CB-CA-C	6.63	121.80	112.11
1	R	91	ILE	O-C-N	-6.63	116.12	122.09
1	Y	186	THR	O-C-N	6.63	129.25	122.09
1	g	77	ALA	CA-C-O	6.63	127.58	120.55
1	B	179	GLN	N-CA-C	6.63	118.51	111.28
1	W	209	ALA	N-CA-CB	-6.63	102.18	111.00
1	6	23	TRP	CB-CG-CD2	-6.63	117.52	126.80
1	6	148	THR	N-CA-CB	6.63	119.84	109.69
1	k	37	ILE	O-C-N	-6.63	116.18	120.42
1	g	181	VAL	CA-C-N	6.63	129.17	120.28
1	g	181	VAL	C-N-CA	6.63	129.17	120.28
1	J	87	HIS	N-CA-C	6.63	119.08	110.53
1	V	113	GLU	CA-C-N	6.63	129.70	120.29
1	V	113	GLU	C-N-CA	6.63	129.70	120.29
1	X	148	THR	OG1-CB-CG2	-6.63	96.04	109.30
1	i	149	SER	O-C-N	-6.63	114.73	122.95
1	e	148	THR	O-C-N	-6.63	115.51	123.13
1	k	76	GLU	N-CA-C	6.63	118.58	111.36
1	H	28	GLU	CA-C-N	6.63	129.06	120.44
1	H	28	GLU	C-N-CA	6.63	129.06	120.44
1	O	92	GLU	CA-C-N	6.63	126.13	119.24
1	O	92	GLU	C-N-CA	6.63	126.13	119.24
1	H	17	PRO	CA-C-N	6.62	129.45	120.44
1	H	17	PRO	C-N-CA	6.62	129.45	120.44
1	b	189	LEU	CA-C-N	6.62	129.48	120.54
1	b	189	LEU	C-N-CA	6.62	129.48	120.54
1	I	39	MET	CA-C-N	6.62	129.69	120.29
1	I	39	MET	C-N-CA	6.62	129.69	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	150	ILE	CA-C-N	6.62	129.81	120.28
1	i	150	ILE	C-N-CA	6.62	129.81	120.28
1	f	190	LEU	CA-C-N	6.62	129.04	120.56
1	f	190	LEU	C-N-CA	6.62	129.04	120.56
1	h	195	ASN	CA-CB-CG	6.62	119.22	112.60
1	X	84	HIS	ND1-CE1-NE2	6.62	115.02	108.40
1	a	38	PRO	N-CA-CB	-6.62	96.30	103.25
1	a	47	ALA	N-CA-C	6.62	119.97	110.24
1	M	165	VAL	N-CA-CB	6.62	120.51	110.58
1	G	77	ALA	CA-C-N	6.62	129.04	120.44
1	G	77	ALA	C-N-CA	6.62	129.04	120.44
1	L	131	LYS	N-CA-C	-6.62	103.99	111.07
1	O	76	GLU	N-CA-C	6.62	119.50	111.82
1	6	64	ALA	N-CA-C	6.62	118.57	111.36
1	m	196	PRO	N-CA-C	6.62	122.58	113.65
1	N	160	PRO	N-CA-C	-6.61	106.22	114.68
1	Y	143	ARG	N-CA-C	6.61	118.49	111.28
1	j	132	ARG	N-CA-C	6.61	118.57	111.36
1	f	164	TYR	CA-C-O	6.61	127.43	120.42
1	O	134	ILE	N-CA-CB	6.61	119.03	110.57
1	a	162	ARG	CD-NE-CZ	-6.61	115.15	124.40
1	i	98	GLU	CA-C-N	6.61	127.00	119.93
1	i	98	GLU	C-N-CA	6.61	127.00	119.93
1	k	131	LYS	CA-C-N	6.61	129.80	120.28
1	k	131	LYS	C-N-CA	6.61	129.80	120.28
1	C	170	LYS	N-CA-C	6.61	118.48	111.28
1	h	98	GLU	CA-C-O	-6.61	111.11	120.16
1	J	216	THR	CA-C-N	6.61	129.67	120.29
1	J	216	THR	C-N-CA	6.61	129.67	120.29
1	b	41	SER	N-CA-C	6.61	120.21	111.75
1	7	229	ARG	CD-NE-CZ	6.61	133.65	124.40
1	B	58	THR	OG1-CB-CG2	-6.61	96.09	109.30
1	G	92	GLU	N-CA-C	6.60	119.02	109.84
1	O	50	GLN	CA-C-N	6.60	129.02	120.44
1	O	50	GLN	C-N-CA	6.60	129.02	120.44
1	O	136	LEU	CA-C-O	6.60	127.42	120.42
1	i	68	MET	CA-C-N	6.60	129.67	120.29
1	i	68	MET	C-N-CA	6.60	129.67	120.29
1	A	9	GLN	CB-CA-C	6.60	120.02	111.50
1	F	177	ALA	N-CA-C	6.60	119.10	109.07
1	L	96	MET	N-CA-C	6.60	118.82	110.24
1	e	86	VAL	CA-C-O	-6.60	113.86	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	87	HIS	CB-CG-CD2	-6.60	122.62	131.20
1	f	51	ASP	CA-C-N	6.60	129.45	120.54
1	f	51	ASP	C-N-CA	6.60	129.45	120.54
1	F	161	PHE	N-CA-C	6.59	118.47	111.28
1	R	102	SER	N-CA-C	6.59	118.47	111.28
1	l	185	MET	O-C-N	6.59	129.11	122.12
1	C	159	GLU	CA-C-O	6.59	123.58	119.29
1	N	78	ALA	CA-C-O	-6.59	113.56	120.55
1	S	16	SER	CA-C-O	-6.59	113.51	120.70
1	6	9	GLN	CB-CG-CD	6.59	123.81	112.60
1	l	163	ASP	CA-C-N	6.59	129.44	120.54
1	l	163	ASP	C-N-CA	6.59	129.44	120.54
1	m	226	HIS	CA-CB-CG	6.59	120.39	113.80
1	Q	192	GLN	O-C-N	-6.59	114.97	122.09
1	i	188	THR	CA-CB-OG1	6.59	119.49	109.60
1	e	114	GLN	OE1-CD-NE2	-6.59	116.01	122.60
1	R	84	HIS	O-C-N	-6.59	115.89	121.23
1	V	214	MET	CA-C-N	6.59	130.00	120.38
1	V	214	MET	C-N-CA	6.59	130.00	120.38
1	C	16	SER	CA-C-N	6.59	126.83	119.32
1	C	16	SER	C-N-CA	6.59	126.83	119.32
1	P	12	HIS	ND1-CE1-NE2	6.59	114.99	108.40
1	X	204	ALA	CA-C-N	6.59	129.11	120.28
1	X	204	ALA	C-N-CA	6.59	129.11	120.28
1	h	37	ILE	CA-C-N	6.59	128.07	119.84
1	h	37	ILE	C-N-CA	6.59	128.07	119.84
1	B	91	ILE	N-CA-C	6.58	117.34	110.62
1	L	103	ASP	CA-C-N	6.58	129.77	120.42
1	L	103	ASP	C-N-CA	6.58	129.77	120.42
1	5	121	ASN	CA-CB-CG	-6.58	106.02	112.60
1	i	46	GLY	O-C-N	-6.58	114.55	122.38
1	A	55	MET	N-CA-C	6.58	118.45	111.28
1	T	41	SER	O-C-N	-6.58	115.14	122.12
1	U	39	MET	CA-C-N	6.58	129.10	120.28
1	U	39	MET	C-N-CA	6.58	129.10	120.28
1	C	137	GLY	CA-C-N	6.58	129.09	120.28
1	C	137	GLY	C-N-CA	6.58	129.09	120.28
1	H	130	TYR	CA-C-N	6.58	129.09	120.28
1	H	130	TYR	C-N-CA	6.58	129.09	120.28
1	I	23	TRP	CA-C-N	6.58	128.98	120.56
1	I	23	TRP	C-N-CA	6.58	128.98	120.56
1	O	33	SER	CA-C-N	6.58	127.10	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	33	SER	C-N-CA	6.58	127.10	119.47
1	e	227	LYS	N-CA-C	6.58	118.82	110.33
1	h	150	ILE	CA-CB-CG1	6.58	121.58	110.40
1	F	6	LEU	N-CA-C	6.57	118.81	110.33
1	U	47	ALA	N-CA-C	6.57	120.58	110.20
1	b	117	TRP	CB-CG-CD1	6.57	136.76	126.90
1	6	56	LEU	O-C-N	-6.57	115.15	122.12
1	B	22	ALA	CA-C-N	6.57	128.98	120.44
1	B	22	ALA	C-N-CA	6.57	128.98	120.44
1	A	204	ALA	O-C-N	-6.57	113.53	122.33
1	K	162	ARG	CA-C-N	6.57	129.08	120.28
1	K	162	ARG	C-N-CA	6.57	129.08	120.28
1	Q	84	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
1	j	134	ILE	O-C-N	-6.57	115.47	121.91
1	g	5	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	T	211	LEU	O-C-N	-6.57	115.16	122.12
1	D	131	LYS	N-CA-C	6.56	118.43	111.28
1	7	181	VAL	CB-CA-C	-6.56	103.17	112.22
1	S	206	GLY	CA-C-N	6.56	126.69	119.87
1	S	206	GLY	C-N-CA	6.56	126.69	119.87
1	i	197	ASP	CA-CB-CG	-6.56	106.04	112.60
1	B	129	ILE	O-C-N	-6.56	115.51	121.87
1	S	145	TYR	CA-C-N	6.56	129.80	120.49
1	S	145	TYR	C-N-CA	6.56	129.80	120.49
1	W	228	ALA	CA-C-O	-6.56	114.41	121.56
1	h	29	GLU	O-C-N	-6.56	115.01	122.09
1	G	191	VAL	CB-CA-C	-6.56	103.29	112.14
1	K	113	GLU	N-CA-C	6.56	118.43	111.28
1	L	227	LYS	N-CA-C	-6.56	103.25	113.02
1	V	19	THR	CA-C-N	6.56	128.96	120.44
1	V	19	THR	C-N-CA	6.56	128.96	120.44
1	W	212	GLU	CA-C-N	6.56	129.72	120.28
1	W	212	GLU	C-N-CA	6.56	129.72	120.28
1	7	190	LEU	N-CA-C	-6.56	103.40	111.40
1	L	183	ASN	OD1-CG-ND2	-6.55	116.05	122.60
1	d	63	GLN	CG-CD-NE2	6.55	126.23	116.40
1	J	154	ARG	O-C-N	-6.55	115.92	123.33
1	K	73	ILE	N-CA-C	6.55	116.71	110.42
1	e	67	GLN	O-C-N	-6.55	115.17	122.12
1	G	139	ASN	CA-C-O	6.55	126.93	119.27
1	a	186	THR	O-C-N	-6.55	115.02	122.09
1	g	212	GLU	CB-CA-C	-6.55	97.76	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	110	THR	O-C-N	-6.55	115.25	122.84
1	6	33	SER	CA-C-N	6.55	126.68	119.87
1	6	33	SER	C-N-CA	6.55	126.68	119.87
1	C	121	ASN	O-C-N	-6.54	115.56	121.39
1	V	183	ASN	OD1-CG-ND2	-6.54	116.06	122.60
1	A	186	THR	N-CA-CB	6.54	120.42	110.28
1	b	175	GLU	CA-C-O	6.54	127.35	119.43
1	c	171	THR	CA-C-O	6.54	127.36	120.42
1	C	202	LEU	CA-C-O	6.54	127.48	120.55
1	F	154	ARG	O-C-N	-6.54	115.52	123.30
1	M	226	HIS	CG-CD2-NE2	6.54	113.73	107.20
1	6	62	HIS	CA-C-N	6.54	129.36	120.54
1	6	62	HIS	C-N-CA	6.54	129.36	120.54
1	m	211	LEU	CA-C-N	6.54	128.94	120.44
1	m	211	LEU	C-N-CA	6.54	128.94	120.44
1	U	204	ALA	CB-CA-C	-6.53	99.95	110.79
1	i	43	LEU	O-C-N	6.53	129.04	122.12
1	m	160	PRO	N-CA-C	6.53	121.60	111.21
1	7	120	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	G	111	LEU	N-CA-C	6.53	118.40	111.28
1	5	26	VAL	CG1-CB-CG2	-6.53	96.43	110.80
1	K	176	GLN	N-CA-CB	-6.53	101.07	110.80
1	V	226	HIS	CA-C-O	6.53	127.34	120.42
1	X	152	ASP	CA-C-O	6.53	127.55	119.78
1	e	61	GLY	O-C-N	-6.53	114.21	122.70
1	c	145	TYR	CA-CB-CG	-6.53	102.15	113.90
1	K	97	ARG	N-CA-C	6.53	118.98	110.43
1	i	37	ILE	CA-CB-CG2	-6.53	99.41	110.50
1	f	62	HIS	ND1-CG-CD2	6.53	112.63	106.10
1	Q	84	HIS	ND1-CE1-NE2	6.53	114.92	108.40
1	k	210	THR	O-C-N	-6.52	115.42	122.85
1	j	34	PRO	N-CA-C	6.52	122.32	113.84
1	Q	216	THR	CA-CB-OG1	6.52	119.38	109.60
1	c	23	TRP	CE2-CD2-CE3	6.52	125.32	118.80
1	R	140	LYS	N-CA-C	6.52	119.22	111.33
1	6	79	GLU	CA-C-O	-6.52	113.98	120.82
1	6	186	THR	O-C-N	-6.52	113.70	122.43
1	a	87	HIS	N-CA-C	6.51	120.64	111.52
1	d	133	TRP	CG-CD2-CE3	-6.51	127.39	133.90
1	5	33	SER	CA-C-N	6.51	127.98	119.84
1	5	33	SER	C-N-CA	6.51	127.98	119.84
1	R	37	ILE	CA-C-O	-6.51	114.33	118.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	33	SER	CA-C-O	-6.51	114.51	120.50
1	e	221	VAL	O-C-N	-6.51	116.64	122.69
1	O	200	THR	CA-C-N	6.51	128.76	120.56
1	O	200	THR	C-N-CA	6.51	128.76	120.56
1	I	2	ILE	CB-CA-C	-6.50	102.30	111.21
1	D	29	GLU	CA-C-O	-6.50	114.20	120.90
1	L	1	PRO	CA-N-CD	-6.50	102.90	112.00
1	P	65	ALA	N-CA-C	6.50	118.45	111.36
1	C	49	PRO	CA-C-N	6.50	128.99	120.28
1	C	49	PRO	C-N-CA	6.50	128.99	120.28
1	U	178	SER	N-CA-CB	6.50	121.47	110.49
1	f	83	LEU	N-CA-C	6.50	121.21	113.28
1	N	178	SER	CA-C-N	6.50	128.99	120.28
1	N	178	SER	C-N-CA	6.50	128.99	120.28
1	c	62	HIS	N-CA-C	6.50	120.63	111.92
1	k	142	VAL	N-CA-CB	6.50	121.76	110.65
1	M	163	ASP	CA-CB-CG	-6.50	106.10	112.60
1	O	113	GLU	CA-C-N	6.50	129.63	120.28
1	O	113	GLU	C-N-CA	6.50	129.63	120.28
1	Z	140	LYS	CA-C-N	6.50	129.36	120.46
1	Z	140	LYS	C-N-CA	6.50	129.36	120.46
1	R	227	LYS	CA-C-O	6.50	127.64	120.82
1	X	222	GLY	CA-C-O	6.49	127.11	119.19
1	k	100	ARG	O-C-N	-6.49	115.31	122.84
1	m	134	ILE	N-CA-C	6.49	117.24	110.62
1	7	65	ALA	N-CA-C	6.49	118.02	111.07
1	g	65	ALA	N-CA-C	6.49	118.36	111.28
1	d	73	ILE	N-CA-C	6.49	118.02	110.62
1	Q	195	ASN	CA-C-N	6.49	126.72	119.32
1	Q	195	ASN	C-N-CA	6.49	126.72	119.32
1	V	227	LYS	N-CA-C	6.49	118.35	111.28
1	B	208	ALA	N-CA-CB	-6.49	100.58	110.12
1	P	162	ARG	CA-C-N	6.49	129.50	120.29
1	P	162	ARG	C-N-CA	6.49	129.50	120.29
1	b	209	ALA	CA-C-O	6.49	129.40	121.87
1	j	79	GLU	CA-C-O	6.49	127.30	120.42
1	F	44	SER	CB-CA-C	-6.49	98.83	110.37
1	J	117	TRP	CD2-CE2-CZ2	-6.49	115.92	122.40
1	W	120	HIS	ND1-CE1-NE2	6.49	114.89	108.40
1	j	128	GLU	CA-C-N	6.49	129.26	120.77
1	j	128	GLU	C-N-CA	6.49	129.26	120.77
1	E	45	GLU	O-C-N	-6.48	115.36	123.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	120	HIS	CB-CG-CD2	-6.48	122.77	131.20
1	Y	86	VAL	CB-CA-C	6.48	120.55	111.34
1	c	120	HIS	CG-CD2-NE2	6.48	113.68	107.20
1	D	101	GLY	CA-C-N	6.48	128.97	120.28
1	D	101	GLY	C-N-CA	6.48	128.97	120.28
1	b	179	GLN	CA-C-O	-6.48	113.96	120.90
1	f	168	PHE	CA-CB-CG	6.48	120.28	113.80
1	g	83	LEU	CA-C-O	-6.48	114.01	120.82
1	e	90	PRO	CB-CA-C	-6.48	103.10	111.46
1	H	15	ILE	O-C-N	-6.48	115.95	122.62
1	F	62	HIS	CA-C-O	-6.48	113.32	120.38
1	M	42	ALA	N-CA-C	6.48	118.42	111.36
1	I	13	GLN	O-C-N	-6.47	115.50	123.33
1	N	42	ALA	N-CA-C	6.47	118.00	111.07
1	U	57	ASN	CA-C-N	6.47	129.60	120.28
1	U	57	ASN	C-N-CA	6.47	129.60	120.28
1	d	176	GLN	OE1-CD-NE2	-6.47	116.12	122.60
1	O	158	LYS	CA-C-O	6.47	127.17	119.60
1	Q	126	VAL	O-C-N	-6.47	115.33	121.87
1	R	92	GLU	CB-CG-CD	6.47	123.60	112.60
1	U	52	LEU	O-C-N	-6.47	115.10	122.09
1	U	129	ILE	CB-CA-C	-6.47	101.61	112.16
1	S	228	ALA	O-C-N	-6.47	113.82	122.23
1	c	119	THR	N-CA-C	-6.47	105.42	113.38
1	i	122	PRO	CA-C-N	6.47	126.93	120.52
1	i	122	PRO	C-N-CA	6.47	126.93	120.52
1	B	120	HIS	CA-CB-CG	6.47	120.27	113.80
1	J	195	ASN	CA-C-O	-6.47	113.64	120.88
1	M	123	PRO	CA-C-O	-6.47	114.18	121.43
1	k	143	ARG	CA-C-N	6.47	128.95	120.28
1	k	143	ARG	C-N-CA	6.47	128.95	120.28
1	J	87	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	m	140	LYS	N-CA-C	6.47	118.33	111.28
1	Z	148	THR	CA-C-N	-6.47	114.43	122.84
1	Z	148	THR	C-N-CA	-6.47	114.43	122.84
1	i	114	GLN	CA-C-O	6.47	127.41	120.55
1	k	149	SER	O-C-N	-6.47	115.62	123.19
1	e	47	ALA	O-C-N	-6.47	115.62	123.19
1	S	193	ASN	OD1-CG-ND2	6.46	129.06	122.60
1	V	171	THR	CA-C-N	6.46	128.94	120.28
1	V	171	THR	C-N-CA	6.46	128.94	120.28
1	i	211	LEU	CA-C-N	6.46	129.23	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	211	LEU	C-N-CA	6.46	129.23	120.38
1	k	51	ASP	CA-C-O	6.46	127.40	120.55
1	6	33	SER	CB-CA-C	-6.46	101.57	110.16
1	M	14	ALA	N-CA-C	6.46	118.36	110.41
1	m	5	ASN	CB-CG-ND2	6.46	126.09	116.40
1	7	33	SER	CA-C-N	6.46	127.91	119.84
1	7	33	SER	C-N-CA	6.46	127.91	119.84
1	h	219	GLN	N-CA-C	6.46	119.23	108.96
1	T	13	GLN	CA-C-N	6.46	130.04	120.87
1	T	13	GLN	C-N-CA	6.46	130.04	120.87
1	T	114	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	X	84	HIS	CA-CB-CG	6.46	120.26	113.80
1	Y	92	GLU	CA-C-N	6.46	126.08	119.56
1	Y	92	GLU	C-N-CA	6.46	126.08	119.56
1	O	124	ILE	O-C-N	-6.46	115.12	121.12
1	5	89	GLY	CA-C-N	6.46	127.91	119.84
1	5	89	GLY	C-N-CA	6.46	127.91	119.84
1	T	62	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	5	106	GLY	CA-C-N	6.45	129.21	120.44
1	5	106	GLY	C-N-CA	6.45	129.21	120.44
1	j	226	HIS	CA-CB-CG	6.45	120.25	113.80
1	f	120	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	L	221	VAL	CA-C-O	6.45	126.77	121.68
1	Z	12	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	j	64	ALA	O-C-N	6.45	128.71	122.07
1	K	110	THR	N-CA-CB	6.45	120.25	110.45
1	G	130	TYR	CA-C-O	-6.44	113.59	120.42
1	g	227	LYS	O-C-N	-6.44	115.21	121.85
1	G	151	LEU	CA-C-O	-6.44	113.09	120.24
1	H	13	GLN	O-C-N	-6.44	115.50	123.36
1	R	46	GLY	CA-C-O	6.44	126.99	119.13
1	S	98	GLU	CA-C-O	-6.44	114.03	119.76
1	c	50	GLN	CA-C-O	6.44	127.25	120.42
1	f	155	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	K	204	ALA	O-C-N	-6.44	114.81	122.15
1	M	109	SER	N-CA-CB	6.44	122.66	111.13
1	P	145	TYR	CA-CB-CG	-6.44	102.31	113.90
1	W	188	THR	O-C-N	-6.44	114.02	122.59
1	b	105	ALA	N-CA-C	6.44	120.74	113.01
1	b	218	CYS	N-CA-C	6.44	120.44	111.74
1	J	75	GLU	N-CA-C	6.44	117.96	111.07
1	R	121	ASN	CA-C-O	-6.44	113.37	119.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	174	ALA	CA-C-N	6.43	130.25	121.05
1	M	174	ALA	C-N-CA	6.43	130.25	121.05
1	O	79	GLU	CA-C-O	-6.43	114.06	120.82
1	P	121	ASN	O-C-N	-6.43	113.96	121.23
1	f	188	THR	CA-CB-OG1	6.43	119.25	109.60
1	Y	216	THR	CA-C-N	6.43	132.68	120.97
1	Y	216	THR	C-N-CA	6.43	132.68	120.97
1	V	21	ASN	O-C-N	-6.43	115.45	122.07
1	6	59	VAL	O-C-N	-6.43	115.38	121.87
1	Q	39	MET	N-CA-C	6.43	119.11	111.33
1	W	74	ASN	CA-CB-CG	6.43	119.03	112.60
1	h	22	ALA	CA-C-N	6.43	128.89	120.28
1	h	22	ALA	C-N-CA	6.43	128.89	120.28
1	L	21	ASN	OD1-CG-ND2	-6.43	116.17	122.60
1	G	79	GLU	CA-C-O	6.42	127.56	120.82
1	P	97	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	b	225	GLY	CA-C-N	6.42	129.18	120.38
1	b	225	GLY	C-N-CA	6.42	129.18	120.38
1	B	164	TYR	N-CA-CB	-6.42	100.76	110.07
1	6	203	LYS	N-CA-C	6.42	118.81	111.11
1	K	5	ASN	CA-CB-CG	6.42	119.02	112.60
1	M	35	GLU	CA-C-O	6.42	126.86	119.35
1	T	214	MET	O-C-N	-6.42	113.60	122.46
1	m	105	ALA	N-CA-CB	-6.42	101.16	110.47
1	Q	128	GLU	CA-C-N	6.42	129.53	120.42
1	Q	128	GLU	C-N-CA	6.42	129.53	120.42
1	X	186	THR	N-CA-C	6.42	118.27	111.28
1	I	161	PHE	O-C-N	-6.42	114.38	122.27
1	M	226	HIS	CA-C-O	6.41	127.36	120.24
1	V	64	ALA	CA-C-N	6.41	128.78	120.44
1	V	64	ALA	C-N-CA	6.41	128.78	120.44
1	F	190	LEU	CA-C-N	6.41	128.76	120.56
1	F	190	LEU	C-N-CA	6.41	128.76	120.56
1	V	81	ASP	CA-C-N	6.41	128.87	120.28
1	V	81	ASP	C-N-CA	6.41	128.87	120.28
1	6	79	GLU	CA-C-N	6.41	128.87	120.28
1	6	79	GLU	C-N-CA	6.41	128.87	120.28
1	A	9	GLN	CA-C-N	6.41	131.00	120.94
1	A	9	GLN	C-N-CA	6.41	131.00	120.94
1	C	132	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	P	217	ALA	CA-C-N	6.41	131.25	122.34
1	P	217	ALA	C-N-CA	6.41	131.25	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	191	VAL	N-CA-C	6.41	116.57	110.42
1	C	157	PRO	N-CA-CB	6.41	109.42	103.46
1	C	230	VAL	CA-C-O	6.41	126.25	119.91
1	J	92	GLU	N-CA-C	6.41	118.75	109.84
1	Y	154	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	5	132	ARG	NE-CZ-NH2	6.41	124.97	119.20
1	A	179	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	F	87	HIS	N-CA-C	6.41	118.34	111.36
1	K	198	CYS	O-C-N	6.41	128.91	122.12
1	7	62	HIS	ND1-CG-CD2	6.41	112.50	106.10
1	N	11	VAL	N-CA-CB	-6.40	98.87	112.00
1	a	53	ASN	O-C-N	6.40	128.91	122.12
1	A	15	ILE	O-C-N	-6.40	115.40	122.83
1	G	103	ASP	CA-CB-CG	-6.40	106.20	112.60
1	O	144	MET	N-CA-C	6.40	119.25	111.82
1	X	104	ILE	N-CA-C	-6.40	104.25	110.72
1	Z	138	LEU	CA-C-O	6.40	127.55	120.63
1	6	80	TRP	CA-C-N	6.40	128.86	120.28
1	6	80	TRP	C-N-CA	6.40	128.86	120.28
1	7	3	VAL	N-CA-C	6.40	118.05	108.96
1	S	191	VAL	CA-C-O	6.40	127.33	119.58
1	L	1	PRO	N-CA-CB	6.40	110.04	103.00
1	6	7	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	C	219	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	S	186	THR	CA-CB-OG1	6.40	119.19	109.60
1	a	54	THR	N-CA-C	6.40	117.92	111.07
1	6	66	MET	N-CA-C	6.40	119.07	111.71
1	j	20	LEU	N-CA-CB	6.40	119.34	110.07
1	l	183	ASN	CA-C-O	-6.40	113.64	120.42
1	d	65	ALA	O-C-N	-6.40	115.34	122.12
1	U	135	ILE	CA-C-N	6.40	130.03	120.31
1	U	135	ILE	C-N-CA	6.40	130.03	120.31
1	M	96	MET	CA-C-O	6.39	128.15	120.28
1	T	173	ARG	N-CA-C	6.39	117.91	111.07
1	h	108	THR	CA-CB-OG1	6.39	119.19	109.60
1	N	195	ASN	CA-C-N	6.39	126.15	119.05
1	N	195	ASN	C-N-CA	6.39	126.15	119.05
1	m	4	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	7	135	ILE	CA-C-N	6.39	129.13	120.44
1	7	135	ILE	C-N-CA	6.39	129.13	120.44
1	F	39	MET	N-CA-C	6.39	118.25	111.28
1	6	186	THR	N-CA-C	6.39	120.34	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	9	GLN	CA-C-O	6.39	127.90	120.49
1	I	84	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	c	111	LEU	N-CA-CB	-6.39	100.73	110.12
1	N	112	GLN	CB-CG-CD	6.38	123.45	112.60
1	U	148	THR	O-C-N	-6.38	115.76	123.29
1	T	54	THR	O-C-N	-6.38	115.20	122.09
1	c	117	TRP	O-C-N	-6.38	114.09	122.39
1	c	141	ILE	CB-CA-C	-6.38	103.66	112.02
1	V	18	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	Z	89	GLY	CA-C-N	6.38	127.82	119.84
1	Z	89	GLY	C-N-CA	6.38	127.82	119.84
1	g	54	THR	CA-CB-CG2	6.38	121.35	110.50
1	Q	140	LYS	N-CA-C	6.38	117.92	110.97
1	W	195	ASN	CA-CB-CG	6.38	118.98	112.60
1	5	160	PRO	CB-CA-C	-6.38	103.54	111.64
1	h	67	GLN	CA-C-N	6.38	128.73	120.44
1	h	67	GLN	C-N-CA	6.38	128.73	120.44
1	R	56	LEU	N-CA-C	6.38	118.03	111.14
1	F	186	THR	CA-C-O	6.38	127.31	119.79
1	I	121	ASN	O-C-N	-6.38	114.03	121.23
1	c	89	GLY	CA-C-N	6.38	126.35	119.78
1	c	89	GLY	C-N-CA	6.38	126.35	119.78
1	M	156	GLY	CA-C-N	6.37	126.29	119.28
1	M	156	GLY	C-N-CA	6.37	126.29	119.28
1	R	153	ILE	N-CA-C	6.37	117.97	109.37
1	N	122	PRO	O-C-N	-6.37	109.00	121.10
1	O	84	HIS	CA-C-O	-6.37	115.17	120.26
1	i	118	MET	N-CA-C	6.37	118.02	111.14
1	W	32	PHE	N-CA-C	6.37	120.06	112.93
1	Y	81	ASP	CA-CB-CG	6.37	118.97	112.60
1	A	95	GLN	CA-C-N	6.37	128.81	120.28
1	A	95	GLN	C-N-CA	6.37	128.81	120.28
1	R	170	LYS	CA-C-N	6.37	128.81	120.28
1	R	170	LYS	C-N-CA	6.37	128.81	120.28
1	Z	24	VAL	CA-C-O	6.37	127.28	119.58
1	i	219	GLN	CB-CA-C	6.37	121.48	110.79
1	L	51	ASP	CA-C-N	6.36	128.71	120.44
1	L	51	ASP	C-N-CA	6.36	128.71	120.44
1	Y	62	HIS	CA-C-N	6.36	129.10	120.38
1	Y	62	HIS	C-N-CA	6.36	129.10	120.38
1	d	92	GLU	CA-C-O	-6.36	112.17	118.34
1	J	140	LYS	CA-C-N	6.36	128.58	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	140	LYS	C-N-CA	6.36	128.58	120.56
1	K	170	LYS	O-C-N	-6.36	114.90	122.15
1	M	215	MET	CG-SD-CE	-6.36	86.91	100.90
1	R	186	THR	O-C-N	-6.36	115.52	122.07
1	T	171	THR	O-C-N	-6.36	114.90	122.15
1	W	125	PRO	N-CA-C	-6.36	99.37	112.47
1	7	26	VAL	CA-C-N	6.36	129.45	120.42
1	7	26	VAL	C-N-CA	6.36	129.45	120.42
1	7	112	GLN	N-CA-C	6.36	119.03	111.71
1	P	145	TYR	O-C-N	-6.36	114.71	122.34
1	W	197	ASP	CA-C-O	6.36	126.71	119.27
1	j	142	VAL	CA-C-O	6.36	127.31	119.43
1	7	4	GLN	O-C-N	-6.36	114.95	122.58
1	I	119	THR	CA-C-N	6.36	130.35	120.75
1	I	119	THR	C-N-CA	6.36	130.35	120.75
1	d	150	ILE	CA-C-O	6.35	125.94	119.20
1	e	89	GLY	CA-C-N	6.35	126.31	119.76
1	e	89	GLY	C-N-CA	6.35	126.31	119.76
1	T	201	ILE	N-CA-CB	6.35	117.98	110.55
1	L	226	HIS	CB-CG-CD2	-6.35	122.94	131.20
1	O	171	THR	N-CA-C	6.35	118.73	111.11
1	i	206	GLY	CA-C-N	6.35	125.92	119.19
1	i	206	GLY	C-N-CA	6.35	125.92	119.19
1	D	191	VAL	N-CA-C	-6.35	104.85	111.58
1	Q	155	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	S	186	THR	CA-C-O	6.35	127.28	120.55
1	Y	12	HIS	O-C-N	-6.35	115.78	123.27
1	Y	199	LYS	CA-C-N	6.35	129.11	120.54
1	Y	199	LYS	C-N-CA	6.35	129.11	120.54
1	k	146	SER	CA-C-O	6.35	125.72	119.75
1	d	56	LEU	N-CA-CB	-6.35	100.44	110.28
1	j	142	VAL	CA-CB-CG2	6.35	121.19	110.40
1	h	15	ILE	N-CA-CB	6.35	118.11	110.31
1	K	73	ILE	N-CA-CB	-6.34	103.13	110.55
1	W	162	ARG	N-CA-CB	-6.34	100.79	110.12
1	5	36	VAL	CA-C-N	6.34	125.41	120.33
1	5	36	VAL	C-N-CA	6.34	125.41	120.33
1	j	98	GLU	CA-C-N	6.34	126.36	119.89
1	j	98	GLU	C-N-CA	6.34	126.36	119.89
1	m	84	HIS	CG-CD2-NE2	6.34	113.55	107.20
1	I	196	PRO	CA-C-O	-6.34	109.91	119.55
1	l	195	ASN	CA-C-N	6.34	125.83	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	195	ASN	C-N-CA	6.34	125.83	119.24
1	Z	121	ASN	CA-C-O	6.34	124.53	119.59
1	6	172	LEU	N-CA-C	6.34	118.19	111.28
1	B	133	TRP	CB-CG-CD2	-6.33	117.93	126.80
1	D	138	LEU	N-CA-C	6.33	119.00	111.71
1	F	54	THR	O-C-N	-6.33	115.54	122.07
1	F	94	GLY	CA-C-O	6.33	125.67	119.27
1	N	9	GLN	CB-CG-CD	-6.33	101.83	112.60
1	d	217	ALA	N-CA-C	6.33	118.96	110.35
1	X	135	ILE	CA-C-N	6.33	129.05	120.44
1	X	135	ILE	C-N-CA	6.33	129.05	120.44
1	E	10	MET	CG-SD-CE	-6.33	86.98	100.90
1	X	84	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
1	l	155	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	P	51	ASP	CA-C-N	6.33	129.27	120.29
1	P	51	ASP	C-N-CA	6.33	129.27	120.29
1	X	84	HIS	CA-C-O	-6.33	113.31	120.46
1	I	193	ASN	CB-CG-ND2	-6.33	106.91	116.40
1	j	23	TRP	CE2-CD2-CE3	6.33	125.12	118.80
1	G	184	TRP	CB-CA-C	6.32	120.93	110.81
1	R	192	GLN	OE1-CD-NE2	6.32	128.92	122.60
1	a	97	ARG	NE-CZ-NH1	-6.32	115.18	121.50
1	F	124	ILE	O-C-N	-6.32	116.53	121.46
1	O	171	THR	CB-CA-C	-6.32	100.70	110.81
1	6	12	HIS	O-C-N	6.32	130.44	123.04
1	G	229	ARG	CA-C-N	6.32	128.52	120.56
1	G	229	ARG	C-N-CA	6.32	128.52	120.56
1	C	209	ALA	N-CA-C	6.32	118.87	110.53
1	F	138	LEU	CA-C-N	6.32	128.74	120.28
1	F	138	LEU	C-N-CA	6.32	128.74	120.28
1	L	100	ARG	O-C-N	-6.32	113.83	122.23
1	h	168	PHE	CB-CG-CD1	-6.32	109.96	120.70
1	b	206	GLY	CA-C-N	6.31	126.00	119.56
1	b	206	GLY	C-N-CA	6.31	126.00	119.56
1	6	62	HIS	CA-CB-CG	-6.31	107.49	113.80
1	j	17	PRO	N-CA-CB	6.31	109.57	103.51
1	m	207	PRO	CA-C-N	6.31	133.60	121.54
1	m	207	PRO	C-N-CA	6.31	133.60	121.54
1	A	13	GLN	CG-CD-NE2	6.31	125.87	116.40
1	R	23	TRP	N-CA-C	-6.31	105.23	113.12
1	V	129	ILE	O-C-N	-6.31	115.14	121.96
1	W	134	ILE	N-CA-C	6.31	117.06	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	150	ILE	CA-C-N	6.31	129.03	120.38
1	X	150	ILE	C-N-CA	6.31	129.03	120.38
1	6	31	ALA	N-CA-C	6.31	118.16	111.28
1	d	134	ILE	O-C-N	-6.31	115.33	121.90
1	h	69	LEU	CA-C-N	6.31	128.65	120.44
1	h	69	LEU	C-N-CA	6.31	128.65	120.44
1	V	95	GLN	CA-C-O	6.31	127.45	120.82
1	7	18	ARG	CA-C-N	6.31	128.74	120.28
1	7	18	ARG	C-N-CA	6.31	128.74	120.28
1	d	213	GLU	N-CA-CB	-6.31	100.92	110.07
1	F	1	PRO	N-CA-CB	6.31	109.94	103.00
1	d	22	ALA	O-C-N	-6.31	115.43	122.12
1	d	120	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	I	149	SER	CA-C-O	-6.31	114.09	121.16
1	D	192	GLN	CB-CA-C	6.30	121.40	110.68
1	S	100	ARG	CG-CD-NE	-6.30	98.13	112.00
1	W	124	ILE	O-C-N	-6.30	113.03	120.66
1	G	214	MET	O-C-N	6.30	128.56	122.07
1	X	170	LYS	CA-C-N	6.30	129.01	120.44
1	X	170	LYS	C-N-CA	6.30	129.01	120.44
1	R	220	GLY	O-C-N	-6.30	114.51	122.70
1	Q	190	LEU	CA-C-O	-6.30	114.21	120.82
1	S	47	ALA	N-CA-CB	-6.30	100.32	109.83
1	Z	32	PHE	CA-C-O	6.30	127.28	119.78
1	d	24	VAL	N-CA-C	6.30	117.05	110.62
1	B	17	PRO	N-CA-CB	6.30	109.86	103.25
1	H	226	HIS	CG-CD2-NE2	6.30	113.50	107.20
1	S	44	SER	O-C-N	-6.30	114.31	122.37
1	V	78	ALA	N-CA-C	6.30	117.81	111.07
1	j	63	GLN	CB-CG-CD	-6.30	101.89	112.60
1	g	203	LYS	CA-C-N	6.30	128.63	120.44
1	g	203	LYS	C-N-CA	6.30	128.63	120.44
1	D	117	TRP	N-CA-C	-6.30	104.50	111.36
1	N	57	ASN	CA-CB-CG	-6.30	106.30	112.60
1	O	162	ARG	CD-NE-CZ	6.30	133.21	124.40
1	U	168	PHE	CA-CB-CG	6.30	120.10	113.80
1	W	45	GLU	CA-C-N	6.30	131.73	122.10
1	W	45	GLU	C-N-CA	6.30	131.73	122.10
1	c	117	TRP	CE2-CD2-CE3	6.30	125.10	118.80
1	i	53	ASN	N-CA-CB	6.30	119.39	109.82
1	E	81	ASP	O-C-N	-6.29	115.45	122.12
1	S	114	GLN	O-C-N	-6.29	115.55	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	89	GLY	O-C-N	6.29	128.06	121.77
1	J	158	LYS	CA-CB-CG	6.29	126.68	114.10
1	J	191	VAL	N-CA-C	6.29	117.08	110.72
1	S	57	ASN	CA-CB-CG	-6.29	106.31	112.60
1	J	66	MET	CG-SD-CE	-6.29	87.06	100.90
1	J	150	ILE	CA-C-N	6.29	129.87	120.31
1	J	150	ILE	C-N-CA	6.29	129.87	120.31
1	Y	174	ALA	CA-C-N	6.29	130.24	120.75
1	Y	174	ALA	C-N-CA	6.29	130.24	120.75
1	B	48	THR	CA-C-O	-6.29	113.84	120.88
1	Q	103	ASP	CA-CB-CG	-6.29	106.31	112.60
1	T	211	LEU	CA-C-O	6.29	127.42	120.63
1	d	169	TYR	N-CA-CB	6.29	119.90	110.22
1	F	85	PRO	CA-C-O	-6.28	114.51	121.23
1	M	168	PHE	CA-C-N	6.28	129.86	120.31
1	M	168	PHE	C-N-CA	6.28	129.86	120.31
1	A	80	TRP	N-CA-C	6.28	118.13	111.28
1	W	206	GLY	O-C-N	-6.28	115.49	121.77
1	5	226	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	h	212	GLU	CA-C-N	6.28	129.32	120.28
1	h	212	GLU	C-N-CA	6.28	129.32	120.28
1	b	179	GLN	O-C-N	6.28	128.62	122.09
1	m	150	ILE	CA-C-O	6.28	124.63	118.98
1	H	135	ILE	CA-C-N	6.28	128.60	120.44
1	H	135	ILE	C-N-CA	6.28	128.60	120.44
1	S	9	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	6	193	ASN	N-CA-CB	6.27	120.31	110.46
1	k	84	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	K	26	VAL	O-C-N	6.27	128.06	121.91
1	X	21	ASN	CA-C-N	6.27	128.59	120.44
1	X	21	ASN	C-N-CA	6.27	128.59	120.44
1	i	201	ILE	O-C-N	-6.27	115.38	121.90
1	F	184	TRP	O-C-N	6.27	128.61	122.09
1	l	21	ASN	CA-C-O	6.27	127.07	120.42
1	l	147	PRO	O-C-N	-6.27	114.39	122.23
1	h	33	SER	CA-C-O	-6.27	113.68	119.76
1	P	177	ALA	CA-C-N	6.27	131.34	121.56
1	P	177	ALA	C-N-CA	6.27	131.34	121.56
1	c	129	ILE	CA-C-O	6.27	127.47	120.95
1	D	134	ILE	CA-C-O	-6.27	114.53	121.17
1	D	173	ARG	N-CA-C	6.27	118.91	111.33
1	H	161	PHE	N-CA-C	6.27	118.11	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	71	GLU	CA-C-N	6.27	129.19	120.29
1	L	71	GLU	C-N-CA	6.27	129.19	120.29
1	U	80	TRP	N-CA-C	6.27	118.91	111.33
1	m	69	LEU	N-CA-C	6.27	118.91	111.33
1	h	226	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	G	123	PRO	N-CA-C	6.27	120.92	111.14
1	N	119	THR	CA-C-N	6.27	130.21	120.75
1	N	119	THR	C-N-CA	6.27	130.21	120.75
1	l	208	ALA	N-CA-C	-6.27	105.41	114.12
1	Y	153	ILE	CB-CA-C	6.26	120.66	111.33
1	m	102	SER	CA-C-O	6.26	127.17	119.97
1	L	2	ILE	O-C-N	-6.26	114.89	122.59
1	U	143	ARG	O-C-N	-6.26	115.48	122.12
1	7	31	ALA	N-CA-C	6.26	118.91	111.33
1	d	87	HIS	CA-CB-CG	6.26	120.06	113.80
1	H	119	THR	CA-C-O	6.26	126.29	119.15
1	J	171	THR	O-C-N	-6.26	114.57	122.27
1	R	84	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	T	53	ASN	CA-CB-CG	-6.26	106.34	112.60
1	j	7	GLN	O-C-N	6.26	129.85	122.34
1	g	164	TYR	O-C-N	6.26	128.76	122.12
1	h	88	ALA	CA-C-N	6.26	131.70	121.87
1	h	88	ALA	C-N-CA	6.26	131.70	121.87
1	i	77	ALA	CA-C-N	6.26	128.57	120.44
1	i	77	ALA	C-N-CA	6.26	128.57	120.44
1	H	40	PHE	CA-C-N	6.25	128.66	120.28
1	H	40	PHE	C-N-CA	6.25	128.66	120.28
1	U	173	ARG	O-C-N	-6.25	115.49	122.12
1	b	40	PHE	CA-CB-CG	6.25	120.06	113.80
1	B	73	ILE	CB-CA-C	-6.25	103.59	112.22
1	S	74	ASN	N-CA-C	6.25	118.18	111.36
1	X	199	LYS	CA-C-O	6.25	127.17	120.10
1	m	71	GLU	CA-C-N	6.25	128.66	120.28
1	m	71	GLU	C-N-CA	6.25	128.66	120.28
1	B	219	GLN	CB-CA-C	6.25	118.73	109.29
1	P	131	LYS	N-CA-C	6.25	118.09	111.28
1	T	84	HIS	CG-CD2-NE2	6.25	113.45	107.20
1	Y	27	VAL	N-CA-C	-6.25	103.06	111.44
1	h	36	VAL	O-C-N	-6.25	115.40	121.90
1	S	12	HIS	CA-CB-CG	-6.25	107.55	113.80
1	J	199	LYS	N-CA-CB	6.25	119.31	110.12
1	P	64	ALA	N-CA-C	6.25	117.89	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	86	VAL	CB-CA-C	-6.25	104.45	111.45
1	D	97	ARG	CA-C-O	6.25	128.16	121.16
1	U	195	ASN	CA-C-N	6.25	125.98	119.05
1	U	195	ASN	C-N-CA	6.25	125.98	119.05
1	a	67	GLN	N-CA-C	6.24	118.17	111.36
1	m	161	PHE	CA-C-O	-6.24	113.80	120.42
1	f	212	GLU	CA-C-N	6.24	128.65	120.28
1	f	212	GLU	C-N-CA	6.24	128.65	120.28
1	M	59	VAL	N-CA-C	6.24	116.91	110.36
1	g	128	GLU	O-C-N	-6.24	115.35	122.09
1	R	227	LYS	O-C-N	-6.24	115.64	122.07
1	m	87	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	7	23	TRP	CD2-CE2-CZ2	-6.24	116.16	122.40
1	e	133	TRP	O-C-N	-6.24	114.59	122.27
1	g	53	ASN	N-CA-C	6.24	118.89	111.71
1	F	91	ILE	O-C-N	-6.24	114.77	122.57
1	G	84	HIS	CA-C-O	-6.24	113.98	120.09
1	Q	118	MET	CA-C-O	6.24	127.15	120.10
1	S	157	PRO	CB-CA-C	6.24	120.79	111.68
1	l	120	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	m	165	VAL	CA-C-O	-6.24	113.73	120.47
1	h	222	GLY	CA-C-N	6.24	131.66	121.87
1	h	222	GLY	C-N-CA	6.24	131.66	121.87
1	G	62	HIS	CA-CB-CG	6.24	120.04	113.80
1	Z	130	TYR	CA-C-N	6.24	130.18	120.82
1	Z	130	TYR	C-N-CA	6.24	130.18	120.82
1	6	12	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	O	121	ASN	CA-CB-CG	-6.23	106.37	112.60
1	O	185	MET	CA-C-O	-6.23	114.27	120.82
1	N	98	GLU	N-CA-C	6.23	117.75	109.83
1	Y	40	PHE	N-CA-C	6.23	117.74	111.07
1	5	195	ASN	CB-CA-C	6.23	119.30	109.27
1	B	200	THR	CA-CB-OG1	-6.23	100.26	109.60
1	c	48	THR	CA-C-N	6.23	127.62	119.84
1	c	48	THR	C-N-CA	6.23	127.62	119.84
1	i	133	TRP	O-C-N	-6.23	115.66	122.07
1	K	26	VAL	N-CA-C	6.23	116.40	110.42
1	Y	53	ASN	N-CA-C	6.23	121.58	111.37
1	M	84	HIS	O-C-N	-6.22	115.66	121.32
1	C	179	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	e	118	MET	CA-C-O	6.22	127.13	119.97
1	I	16	SER	O-C-N	-6.22	115.77	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	152	ASP	N-CA-C	6.22	118.14	111.36
1	Y	215	MET	CA-C-N	6.22	128.53	120.44
1	Y	215	MET	C-N-CA	6.22	128.53	120.44
1	i	1	PRO	CA-C-N	6.22	132.58	122.69
1	i	1	PRO	C-N-CA	6.22	132.58	122.69
1	L	221	VAL	CB-CA-C	-6.22	102.39	112.03
1	W	51	ASP	CA-C-O	-6.22	113.96	120.55
1	k	120	HIS	CB-CG-ND1	6.22	132.03	122.70
1	l	101	GLY	CA-C-N	6.22	129.12	120.29
1	l	101	GLY	C-N-CA	6.22	129.12	120.29
1	J	222	GLY	CA-C-N	6.22	131.63	121.87
1	J	222	GLY	C-N-CA	6.22	131.63	121.87
1	j	62	HIS	CA-CB-CG	-6.22	107.58	113.80
1	C	226	HIS	CG-CD2-NE2	6.21	113.41	107.20
1	O	165	VAL	N-CA-C	6.21	118.82	111.05
1	h	116	GLY	CA-C-N	6.21	128.52	120.44
1	h	116	GLY	C-N-CA	6.21	128.52	120.44
1	M	130	TYR	N-CA-C	-6.21	104.59	111.36
1	W	92	GLU	CA-C-O	-6.21	114.00	120.09
1	6	54	THR	O-C-N	-6.21	115.54	122.12
1	h	63	GLN	N-CA-C	6.21	118.85	111.71
1	O	210	THR	O-C-N	-6.21	115.01	122.65
1	k	122	PRO	CA-C-N	6.21	126.72	120.14
1	k	122	PRO	C-N-CA	6.21	126.72	120.14
1	L	195	ASN	O-C-N	-6.21	115.78	121.30
1	U	61	GLY	CA-C-N	6.21	130.97	122.34
1	U	61	GLY	C-N-CA	6.21	130.97	122.34
1	b	55	MET	N-CA-C	6.21	118.56	111.11
1	j	23	TRP	CD2-CE3-CZ3	-6.21	110.53	118.60
1	l	37	ILE	N-CA-C	6.21	122.29	108.88
1	f	136	LEU	N-CA-CB	-6.21	100.98	110.16
1	Q	231	LEU	CB-CA-C	6.20	121.89	110.10
1	5	125	PRO	CA-C-N	6.20	128.38	120.56
1	5	125	PRO	C-N-CA	6.20	128.38	120.56
1	5	173	ARG	O-C-N	-6.20	115.08	122.15
1	c	208	ALA	CA-C-N	6.20	129.68	120.87
1	c	208	ALA	C-N-CA	6.20	129.68	120.87
1	g	41	SER	CA-C-N	6.20	128.59	120.28
1	g	41	SER	C-N-CA	6.20	128.59	120.28
1	X	118	MET	CA-C-O	6.20	126.86	119.60
1	Y	100	ARG	CA-C-N	6.20	127.89	120.14
1	Y	100	ARG	C-N-CA	6.20	127.89	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	114	GLN	N-CA-C	6.20	117.70	111.07
1	G	51	ASP	CA-CB-CG	-6.20	106.40	112.60
1	U	23	TRP	N-CA-C	6.20	117.70	111.07
1	Z	110	THR	O-C-N	-6.20	116.00	122.94
1	m	209	ALA	CA-C-N	6.20	130.67	122.30
1	m	209	ALA	C-N-CA	6.20	130.67	122.30
1	C	116	GLY	CA-C-N	6.20	128.50	120.44
1	C	116	GLY	C-N-CA	6.20	128.50	120.44
1	J	181	VAL	O-C-N	-6.20	115.86	121.87
1	L	66	MET	CA-C-N	6.20	129.09	120.29
1	L	66	MET	C-N-CA	6.20	129.09	120.29
1	P	6	LEU	CB-CA-C	-6.20	98.40	110.11
1	S	183	ASN	CA-C-N	6.20	128.87	120.38
1	S	183	ASN	C-N-CA	6.20	128.87	120.38
1	X	215	MET	N-CA-C	6.20	118.11	111.36
1	Z	39	MET	O-C-N	-6.20	115.55	122.12
1	6	69	LEU	O-C-N	-6.20	115.55	122.12
1	l	50	GLN	O-C-N	-6.20	115.55	122.12
1	m	61	GLY	N-CA-C	6.20	120.55	112.25
1	6	67	GLN	CA-C-N	6.19	128.58	120.28
1	6	67	GLN	C-N-CA	6.19	128.58	120.28
1	7	211	LEU	CA-C-O	6.19	127.10	119.79
1	d	127	GLY	CA-C-N	6.19	128.58	120.28
1	d	127	GLY	C-N-CA	6.19	128.58	120.28
1	e	22	ALA	O-C-N	-6.19	115.09	122.15
1	g	150	ILE	O-C-N	-6.19	115.61	121.87
1	K	117	TRP	CG-CD2-CE3	-6.19	127.71	133.90
1	l	52	LEU	O-C-N	-6.19	115.56	122.12
1	d	40	PHE	CA-C-O	-6.19	113.99	120.55
1	M	84	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	m	181	VAL	CA-C-N	6.19	128.57	120.28
1	m	181	VAL	C-N-CA	6.19	128.57	120.28
1	J	228	ALA	CA-C-O	-6.19	114.47	122.14
1	S	83	LEU	N-CA-CB	6.19	119.42	110.20
1	c	29	GLU	CB-CA-C	-6.19	100.33	110.85
1	Q	157	PRO	O-C-N	6.18	129.35	122.24
1	7	161	PHE	N-CA-CB	-6.18	101.01	110.16
1	K	46	GLY	CA-C-O	6.18	126.17	119.06
1	T	12	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	X	133	TRP	O-C-N	-6.18	114.99	122.22
1	5	211	LEU	CA-C-N	6.18	128.48	120.44
1	5	211	LEU	C-N-CA	6.18	128.48	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	173	ARG	CA-C-N	6.18	128.56	120.28
1	b	173	ARG	C-N-CA	6.18	128.56	120.28
1	k	68	MET	CG-SD-CE	-6.18	87.30	100.90
1	G	166	ASP	O-C-N	-6.18	115.42	122.09
1	Z	72	THR	CA-C-O	6.18	126.97	120.42
1	7	178	SER	O-C-N	-6.18	115.98	122.96
1	B	74	ASN	N-CA-C	6.18	118.01	111.28
1	I	138	LEU	O-C-N	-6.17	115.11	122.15
1	d	20	LEU	O-C-N	6.17	128.67	122.12
1	O	194	ALA	O-C-N	-6.17	115.73	123.01
1	Y	9	GLN	OE1-CD-NE2	-6.17	116.43	122.60
1	H	178	SER	CA-C-N	6.17	128.55	120.28
1	H	178	SER	C-N-CA	6.17	128.55	120.28
1	T	139	ASN	OD1-CG-ND2	-6.17	116.43	122.60
1	O	195	ASN	CA-C-N	6.17	126.07	119.28
1	O	195	ASN	C-N-CA	6.17	126.07	119.28
1	C	161	PHE	CA-CB-CG	-6.17	107.63	113.80
1	D	200	THR	CA-C-N	6.17	128.33	120.56
1	D	200	THR	C-N-CA	6.17	128.33	120.56
1	Q	177	ALA	N-CA-C	6.17	119.15	109.96
1	R	54	THR	CA-C-N	6.17	128.87	120.54
1	R	54	THR	C-N-CA	6.17	128.87	120.54
1	U	114	GLN	OE1-CD-NE2	6.17	128.77	122.60
1	C	62	HIS	CA-C-N	6.17	129.68	120.31
1	C	62	HIS	C-N-CA	6.17	129.68	120.31
1	A	23	TRP	CG-CD2-CE3	-6.16	127.74	133.90
1	G	75	GLU	O-C-N	-6.16	115.59	122.12
1	H	103	ASP	CA-C-O	-6.16	114.02	120.55
1	a	158	LYS	N-CA-C	-6.16	102.99	110.88
1	l	90	PRO	N-CA-C	6.16	120.89	111.15
1	d	23	TRP	CZ3-CH2-CZ2	-6.16	113.49	121.50
1	N	117	TRP	CB-CG-CD2	-6.16	118.17	126.80
1	g	34	PRO	N-CA-C	-6.16	106.05	114.80
1	I	87	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	L	79	GLU	O-C-N	-6.16	115.44	122.09
1	N	100	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	R	138	LEU	N-CA-C	6.16	118.79	111.71
1	V	15	ILE	N-CA-C	-6.16	101.61	109.80
1	X	100	ARG	CA-C-N	6.16	126.77	120.00
1	X	100	ARG	C-N-CA	6.16	126.77	120.00
1	c	117	TRP	CD2-CE2-CZ2	-6.16	116.24	122.40
1	k	12	HIS	CE1-NE2-CD2	-6.16	102.84	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	48	THR	CA-CB-OG1	6.16	118.83	109.60
1	c	51	ASP	CA-CB-CG	-6.15	106.45	112.60
1	h	102	SER	N-CA-C	6.15	118.79	111.71
1	O	160	PRO	CA-C-N	6.15	129.66	120.31
1	O	160	PRO	C-N-CA	6.15	129.66	120.31
1	a	30	LYS	CA-C-N	6.15	129.03	120.29
1	a	30	LYS	C-N-CA	6.15	129.03	120.29
1	c	12	HIS	CB-CG-CD2	-6.15	123.20	131.20
1	e	97	ARG	CG-CD-NE	-6.15	98.46	112.00
1	A	50	GLN	N-CA-C	6.15	118.78	111.71
1	e	7	GLN	CB-CG-CD	-6.15	102.14	112.60
1	I	83	LEU	CA-C-N	-6.15	115.39	122.52
1	I	83	LEU	C-N-CA	-6.15	115.39	122.52
1	P	96	MET	CA-C-O	6.15	127.99	120.92
1	D	197	ASP	CA-CB-CG	-6.15	106.45	112.60
1	6	105	ALA	N-CA-C	-6.15	105.78	113.28
1	U	9	GLN	N-CA-CB	6.14	119.07	110.04
1	Z	106	GLY	CA-C-O	6.14	125.80	119.10
1	5	193	ASN	OD1-CG-ND2	-6.14	116.45	122.60
1	B	199	LYS	N-CA-CB	6.14	118.92	110.01
1	F	124	ILE	CA-C-O	-6.14	114.72	119.20
1	R	111	LEU	CA-C-N	6.14	128.79	120.38
1	R	111	LEU	C-N-CA	6.14	128.79	120.38
1	m	33	SER	N-CA-C	-6.14	98.28	108.23
1	i	195	ASN	CA-CB-CG	6.14	118.74	112.60
1	f	115	ILE	O-C-N	-6.14	115.50	121.83
1	J	209	ALA	O-C-N	-6.14	115.34	122.95
1	L	32	PHE	CA-C-N	6.14	128.92	120.39
1	L	32	PHE	C-N-CA	6.14	128.92	120.39
1	M	88	ALA	N-CA-C	6.14	118.70	110.35
1	U	136	LEU	CA-C-O	6.14	127.03	119.97
1	Y	201	ILE	O-C-N	-6.14	115.80	121.94
1	k	126	VAL	N-CA-C	6.14	118.72	111.05
1	S	37	ILE	CB-CA-C	-6.14	107.84	114.35
1	U	184	TRP	CE2-CD2-CE3	6.14	124.94	118.80
1	F	98	GLU	O-C-N	-6.14	113.30	121.64
1	P	78	ALA	CA-C-N	6.14	128.42	120.44
1	P	78	ALA	C-N-CA	6.14	128.42	120.44
1	T	19	THR	CA-C-N	6.14	128.50	120.28
1	T	19	THR	C-N-CA	6.14	128.50	120.28
1	j	84	HIS	CA-C-N	6.14	126.49	119.92
1	j	84	HIS	C-N-CA	6.14	126.49	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	16	SER	CA-C-N	6.13	126.03	119.28
1	F	16	SER	C-N-CA	6.13	126.03	119.28
1	K	4	GLN	CB-CG-CD	-6.13	102.17	112.60
1	X	217	ALA	N-CA-CB	-6.13	101.59	110.36
1	h	167	ARG	NE-CZ-NH1	6.13	127.64	121.50
1	C	197	ASP	CA-C-N	6.13	128.41	120.44
1	C	197	ASP	C-N-CA	6.13	128.41	120.44
1	E	184	TRP	CA-CB-CG	6.13	125.25	113.60
1	F	57	ASN	CA-C-N	6.13	128.41	120.44
1	F	57	ASN	C-N-CA	6.13	128.41	120.44
1	F	79	GLU	N-CA-C	-6.13	104.68	111.36
1	Y	147	PRO	CA-C-O	-6.13	111.50	118.98
1	j	224	PRO	N-CA-CB	6.13	109.69	103.25
1	I	78	ALA	N-CA-C	6.13	118.50	111.02
1	X	155	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	a	159	GLU	CA-C-N	6.13	126.15	119.90
1	a	159	GLU	C-N-CA	6.13	126.15	119.90
1	m	34	PRO	CA-C-N	6.13	129.33	120.38
1	m	34	PRO	C-N-CA	6.13	129.33	120.38
1	C	210	THR	O-C-N	-6.13	116.05	123.10
1	J	54	THR	CA-C-N	6.13	128.41	120.44
1	J	54	THR	C-N-CA	6.13	128.41	120.44
1	T	76	GLU	CA-C-N	6.13	128.78	120.38
1	T	76	GLU	C-N-CA	6.13	128.78	120.38
1	U	227	LYS	CA-C-N	6.13	131.06	122.36
1	U	227	LYS	C-N-CA	6.13	131.06	122.36
1	R	18	ARG	CG-CD-NE	-6.13	98.52	112.00
1	l	107	THR	N-CA-CB	6.13	118.95	110.07
1	X	58	THR	CA-CB-OG1	6.12	118.79	109.60
1	Z	214	MET	CA-C-N	6.12	129.10	120.28
1	Z	214	MET	C-N-CA	6.12	129.10	120.28
1	R	198	CYS	CA-C-N	6.12	128.81	120.54
1	R	198	CYS	C-N-CA	6.12	128.81	120.54
1	T	22	ALA	N-CA-C	6.12	118.03	111.36
1	V	92	GLU	O-C-N	6.12	126.12	121.65
1	U	97	ARG	NE-CZ-NH2	6.12	124.71	119.20
1	Z	24	VAL	O-C-N	-6.12	113.67	122.12
1	m	16	SER	CA-C-N	6.12	126.01	119.28
1	m	16	SER	C-N-CA	6.12	126.01	119.28
1	d	94	GLY	N-CA-C	6.12	119.06	112.33
1	Q	122	PRO	CA-C-N	6.12	126.44	119.83
1	Q	122	PRO	C-N-CA	6.12	126.44	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	57	ASN	O-C-N	-6.12	115.06	122.22
1	i	21	ASN	CA-C-N	6.12	128.98	120.29
1	i	21	ASN	C-N-CA	6.12	128.98	120.29
1	j	80	TRP	CA-C-O	-6.12	113.94	120.42
1	A	182	LYS	N-CA-C	6.12	118.91	111.82
1	B	158	LYS	O-C-N	-6.12	114.84	122.24
1	l	175	GLU	N-CA-CB	-6.12	101.20	110.07
1	d	188	THR	N-CA-C	6.12	120.44	112.92
1	F	135	ILE	CA-C-N	6.11	128.75	120.38
1	F	135	ILE	C-N-CA	6.11	128.75	120.38
1	Z	219	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	e	162	ARG	CA-CB-CG	6.11	126.33	114.10
1	f	189	LEU	N-CA-C	6.11	118.73	111.33
1	l	159	GLU	CA-C-N	6.11	126.12	119.89
1	l	159	GLU	C-N-CA	6.11	126.12	119.89
1	N	76	GLU	CA-C-O	-6.11	114.07	120.55
1	R	114	GLN	N-CA-C	-6.11	104.17	111.69
1	Z	79	GLU	CA-C-N	6.11	128.97	120.29
1	Z	79	GLU	C-N-CA	6.11	128.97	120.29
1	m	11	VAL	O-C-N	-6.11	116.28	123.00
1	D	134	ILE	N-CA-C	-6.11	104.56	110.42
1	L	16	SER	CA-C-N	6.11	126.00	119.28
1	L	16	SER	C-N-CA	6.11	126.00	119.28
1	g	188	THR	CA-C-N	6.11	128.46	120.28
1	g	188	THR	C-N-CA	6.11	128.46	120.28
1	E	122	PRO	CA-C-N	6.11	127.03	120.13
1	E	122	PRO	C-N-CA	6.11	127.03	120.13
1	E	134	ILE	N-CA-C	6.11	116.89	110.72
1	H	142	VAL	O-C-N	-6.11	115.95	121.87
1	P	28	GLU	N-CA-C	6.11	117.73	111.14
1	T	20	LEU	CA-C-N	6.11	128.46	120.28
1	T	20	LEU	C-N-CA	6.11	128.46	120.28
1	k	182	LYS	O-C-N	-6.11	115.65	122.12
1	G	54	THR	CA-C-O	-6.10	113.95	120.42
1	H	30	LYS	O-C-N	-6.10	114.84	122.35
1	B	18	ARG	CA-C-N	6.10	128.77	120.54
1	B	18	ARG	C-N-CA	6.10	128.77	120.54
1	C	127	GLY	CA-C-N	6.10	128.37	120.44
1	C	127	GLY	C-N-CA	6.10	128.37	120.44
1	F	16	SER	N-CA-C	6.10	116.61	109.60
1	J	110	THR	CA-C-N	6.10	128.45	120.28
1	J	110	THR	C-N-CA	6.10	128.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	229	ARG	CA-C-N	6.10	131.22	121.34
1	L	229	ARG	C-N-CA	6.10	131.22	121.34
1	M	157	PRO	N-CA-C	6.10	121.88	113.65
1	N	21	ASN	CA-C-N	6.10	128.77	120.54
1	N	21	ASN	C-N-CA	6.10	128.77	120.54
1	6	183	ASN	N-CA-C	6.10	118.89	111.82
1	g	154	ARG	NE-CZ-NH1	-6.10	115.40	121.50
1	N	18	ARG	CB-CA-C	6.10	120.91	110.79
1	m	123	PRO	N-CA-CB	6.10	108.74	103.31
1	a	220	GLY	CA-C-O	-6.09	109.56	119.31
1	M	61	GLY	CA-C-N	6.09	131.31	122.36
1	M	61	GLY	C-N-CA	6.09	131.31	122.36
1	N	132	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	c	58	THR	N-CA-C	6.09	119.55	111.75
1	C	195	ASN	N-CA-CB	6.09	118.70	109.75
1	G	62	HIS	ND1-CG-CD2	6.09	112.19	106.10
1	K	211	LEU	CA-C-N	6.09	128.72	120.44
1	K	211	LEU	C-N-CA	6.09	128.72	120.44
1	M	175	GLU	CA-C-O	6.09	127.60	120.96
1	a	184	TRP	CD2-CE2-CZ2	-6.09	116.31	122.40
1	6	187	GLU	N-CA-C	6.09	119.18	111.69
1	7	171	THR	CA-C-N	6.09	128.36	120.44
1	7	171	THR	C-N-CA	6.09	128.36	120.44
1	h	193	ASN	CA-CB-CG	-6.09	106.51	112.60
1	A	196	PRO	N-CA-CB	6.09	110.03	103.33
1	c	221	VAL	O-C-N	-6.09	115.97	121.87
1	E	163	ASP	N-CA-C	-6.09	105.85	113.28
1	L	81	ASP	CA-C-N	6.09	128.93	120.29
1	L	81	ASP	C-N-CA	6.09	128.93	120.29
1	R	215	MET	N-CA-C	6.09	117.91	111.28
1	l	28	GLU	CA-C-O	6.09	127.00	120.55
1	7	78	ALA	CA-C-N	6.09	128.44	120.28
1	7	78	ALA	C-N-CA	6.09	128.44	120.28
1	f	169	TYR	N-CA-C	6.09	117.91	111.28
1	A	68	MET	CA-C-O	6.08	127.20	120.63
1	C	146	SER	CA-C-O	-6.08	114.25	119.36
1	N	165	VAL	CA-C-O	6.08	127.22	120.71
1	5	37	ILE	N-CA-CB	6.08	115.20	110.45
1	B	23	TRP	CA-CB-CG	6.08	125.16	113.60
1	l	219	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	g	200	THR	N-CA-CB	6.08	119.00	109.94
1	A	10	MET	O-C-N	-6.08	115.68	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	208	ALA	CA-C-N	6.08	129.35	120.71
1	L	208	ALA	C-N-CA	6.08	129.35	120.71
1	N	84	HIS	N-CA-C	6.08	117.36	109.64
1	h	36	VAL	N-CA-C	-6.08	104.81	110.53
1	m	197	ASP	N-CA-C	6.08	117.58	111.07
1	7	120	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	S	165	VAL	CB-CA-C	-6.08	103.93	112.14
1	T	221	VAL	N-CA-C	6.08	118.69	111.09
1	a	23	TRP	N-CA-C	6.08	117.91	111.28
1	b	15	ILE	O-C-N	-6.08	116.16	122.66
1	P	188	THR	O-C-N	-6.08	114.96	122.25
1	X	188	THR	N-CA-C	6.08	118.43	111.02
1	m	171	THR	CA-C-O	6.08	126.96	119.97
1	h	182	LYS	N-CA-C	-6.08	104.77	111.82
1	L	80	TRP	CA-C-N	6.07	128.34	120.44
1	L	80	TRP	C-N-CA	6.07	128.34	120.44
1	Q	195	ASN	O-C-N	-6.07	114.63	121.43
1	S	44	SER	CA-C-O	6.07	127.06	119.59
1	f	129	ILE	CA-C-O	-6.07	114.73	121.17
1	A	16	SER	CA-CB-OG	6.07	123.25	111.10
1	Y	78	ALA	N-CA-CB	-6.07	101.19	110.12
1	i	78	ALA	N-CA-C	6.07	117.57	111.07
1	k	82	ARG	CA-C-N	6.07	128.42	120.28
1	k	82	ARG	C-N-CA	6.07	128.42	120.28
1	A	27	VAL	CB-CA-C	-6.07	103.84	112.22
1	H	197	ASP	O-C-N	-6.07	115.69	122.12
1	Z	175	GLU	CB-CG-CD	6.07	122.92	112.60
1	F	10	MET	N-CA-CB	6.07	121.00	110.81
1	J	13	GLN	N-CA-C	-6.07	99.51	109.40
1	W	51	ASP	O-C-N	6.07	128.55	122.12
1	h	140	LYS	N-CA-CB	-6.07	101.20	110.12
1	c	54	THR	CA-C-N	6.07	128.33	120.44
1	c	54	THR	C-N-CA	6.07	128.33	120.44
1	F	132	ARG	NE-CZ-NH2	-6.06	113.75	119.20
1	R	163	ASP	CB-CA-C	6.06	121.65	110.56
1	f	112	GLN	CA-C-N	6.06	128.40	120.28
1	f	112	GLN	C-N-CA	6.06	128.40	120.28
1	S	114	GLN	CA-C-N	6.06	129.03	120.42
1	S	114	GLN	C-N-CA	6.06	129.03	120.42
1	d	20	LEU	N-CA-C	6.06	117.89	111.28
1	5	48	THR	CA-C-N	6.06	127.42	119.84
1	5	48	THR	C-N-CA	6.06	127.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	100	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
1	7	129	ILE	N-CA-CB	6.06	117.64	110.55
1	5	156	GLY	CA-C-N	6.05	125.45	118.85
1	5	156	GLY	C-N-CA	6.05	125.45	118.85
1	d	62	HIS	N-CA-C	6.05	119.38	110.30
1	h	228	ALA	N-CA-C	6.05	119.04	109.96
1	G	112	GLN	CG-CD-NE2	-6.05	107.32	116.40
1	H	6	LEU	CA-C-N	6.05	132.35	121.15
1	H	6	LEU	C-N-CA	6.05	132.35	121.15
1	X	162	ARG	NE-CZ-NH2	6.05	124.65	119.20
1	M	23	TRP	CB-CG-CD2	-6.05	118.33	126.80
1	Z	56	LEU	CA-C-N	6.05	128.99	120.28
1	Z	56	LEU	C-N-CA	6.05	128.99	120.28
1	c	218	CYS	CA-C-O	-6.05	114.20	121.40
1	l	167	ARG	CA-C-O	6.05	126.96	120.55
1	m	9	GLN	CB-CA-C	-6.05	101.79	110.62
1	E	142	VAL	CA-C-N	6.05	129.50	120.31
1	E	142	VAL	C-N-CA	6.05	129.50	120.31
1	H	62	HIS	N-CA-C	6.05	119.91	111.74
1	i	27	VAL	N-CA-C	6.05	116.83	110.72
1	C	173	ARG	NH1-CZ-NH2	6.05	127.16	119.30
1	D	114	GLN	CA-C-N	6.05	129.01	120.42
1	D	114	GLN	C-N-CA	6.05	129.01	120.42
1	G	73	ILE	O-C-N	-6.05	114.97	121.80
1	f	84	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	L	162	ARG	CG-CD-NE	-6.04	98.70	112.00
1	S	131	LYS	N-CA-C	6.04	118.83	111.82
1	e	105	ALA	N-CA-CB	-6.04	101.81	110.57
1	c	169	TYR	O-C-N	-6.04	115.71	122.12
1	j	82	ARG	CA-C-N	6.04	130.96	120.68
1	j	82	ARG	C-N-CA	6.04	130.96	120.68
1	f	38	PRO	N-CA-CB	6.04	109.74	103.15
1	I	75	GLU	CA-C-O	6.04	126.95	120.55
1	T	101	GLY	CA-C-N	6.04	128.38	120.28
1	T	101	GLY	C-N-CA	6.04	128.38	120.28
1	V	157	PRO	CB-CA-C	-6.04	101.59	111.56
1	a	143	ARG	N-CA-C	6.04	118.66	111.71
1	b	40	PHE	N-CA-C	6.04	118.36	111.11
1	K	154	ARG	NE-CZ-NH2	-6.04	113.76	119.20
1	5	158	LYS	N-CA-C	-6.04	105.56	113.17
1	e	86	VAL	O-C-N	6.04	128.05	121.83
1	g	159	GLU	O-C-N	-6.04	112.78	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	229	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
1	H	24	VAL	N-CA-C	6.04	116.82	110.72
1	T	34	PRO	CA-C-N	6.04	130.81	120.72
1	T	34	PRO	C-N-CA	6.04	130.81	120.72
1	X	134	ILE	O-C-N	-6.04	113.87	121.84
1	B	107	THR	CA-C-N	6.04	131.97	122.49
1	B	107	THR	C-N-CA	6.04	131.97	122.49
1	e	150	ILE	CA-C-N	6.04	128.86	120.29
1	e	150	ILE	C-N-CA	6.04	128.86	120.29
1	5	229	ARG	CA-C-N	6.04	130.54	120.64
1	5	229	ARG	C-N-CA	6.04	130.54	120.64
1	E	87	HIS	CA-CB-CG	6.03	119.83	113.80
1	i	76	GLU	CA-C-N	6.03	128.65	120.44
1	i	76	GLU	C-N-CA	6.03	128.65	120.44
1	j	33	SER	O-C-N	-6.03	114.38	121.32
1	j	162	ARG	O-C-N	-6.03	115.16	122.22
1	D	134	ILE	N-CA-CB	6.03	117.61	110.55
1	J	18	ARG	CA-CB-CG	-6.03	102.04	114.10
1	J	145	TYR	CB-CG-CD1	6.03	129.85	120.80
1	B	68	MET	N-CA-C	6.03	118.34	111.11
1	G	22	ALA	N-CA-C	-6.03	104.62	111.07
1	K	127	GLY	O-C-N	-6.03	116.34	122.19
1	C	39	MET	CA-C-N	6.03	129.47	120.31
1	C	39	MET	C-N-CA	6.03	129.47	120.31
1	O	78	ALA	N-CA-C	6.03	117.93	111.36
1	Q	48	THR	N-CA-CB	6.03	117.39	109.55
1	Y	158	LYS	CA-C-O	6.03	126.59	119.48
1	d	114	GLN	CA-C-N	6.03	128.16	120.56
1	d	114	GLN	C-N-CA	6.03	128.16	120.56
1	K	42	ALA	CA-C-N	6.03	128.35	120.28
1	K	42	ALA	C-N-CA	6.03	128.35	120.28
1	b	155	GLN	OE1-CD-NE2	-6.03	116.57	122.60
1	j	183	ASN	O-C-N	-6.03	115.28	122.15
1	7	111	LEU	CA-C-O	6.03	126.90	119.97
1	U	15	ILE	O-C-N	-6.02	116.95	122.79
1	l	171	THR	CA-C-N	6.02	128.35	120.28
1	l	171	THR	C-N-CA	6.02	128.35	120.28
1	P	152	ASP	O-C-N	-6.02	115.28	122.15
1	R	119	THR	CA-C-N	6.02	131.05	120.87
1	R	119	THR	C-N-CA	6.02	131.05	120.87
1	Y	138	LEU	CA-C-N	6.02	128.95	120.28
1	Y	138	LEU	C-N-CA	6.02	128.95	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	163	ASP	CA-CB-CG	-6.02	106.58	112.60
1	J	205	LEU	N-CA-CB	-6.02	101.25	110.16
1	a	101	GLY	O-C-N	-6.02	115.86	122.24
1	b	64	ALA	N-CA-CB	6.02	119.07	110.16
1	O	26	VAL	CA-C-N	6.02	128.97	120.42
1	O	26	VAL	C-N-CA	6.02	128.97	120.42
1	m	143	ARG	N-CA-C	6.02	117.84	111.28
1	G	202	LEU	N-CA-CB	-6.02	101.27	110.12
1	P	9	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	T	43	LEU	CA-C-O	6.02	126.77	119.31
1	W	21	ASN	CA-C-O	-6.02	114.04	120.42
1	e	84	HIS	O-C-N	-6.02	116.45	121.38
1	J	191	VAL	CA-C-N	6.01	128.66	120.54
1	J	191	VAL	C-N-CA	6.01	128.66	120.54
1	S	156	GLY	CA-C-O	-6.01	116.18	122.38
1	c	2	ILE	CA-C-O	-6.01	114.40	121.80
1	i	37	ILE	CB-CA-C	-6.01	107.97	114.35
1	k	186	THR	O-C-N	-6.01	114.87	122.27
1	7	37	ILE	O-C-N	-6.01	114.24	121.10
1	e	181	VAL	O-C-N	-6.01	116.04	121.87
1	c	18	ARG	CD-NE-CZ	6.01	132.82	124.40
1	6	120	HIS	N-CA-C	6.01	118.05	110.24
1	l	125	PRO	O-C-N	-6.01	114.52	122.64
1	d	95	GLN	CB-CG-CD	6.01	122.82	112.60
1	B	195	ASN	CA-C-O	-6.01	114.19	120.02
1	F	28	GLU	CA-C-O	-6.01	114.51	120.82
1	Z	113	GLU	N-CA-CB	-6.01	101.36	110.07
1	5	199	LYS	CA-C-O	6.01	127.33	120.90
1	i	63	GLN	N-CA-C	6.01	118.79	111.82
1	d	153	ILE	CA-CB-CG1	6.01	120.62	110.40
1	C	120	HIS	CG-CD2-NE2	6.01	113.21	107.20
1	U	96	MET	CA-C-N	6.01	129.40	120.87
1	U	96	MET	C-N-CA	6.01	129.40	120.87
1	i	210	THR	O-C-N	-6.01	115.42	122.81
1	D	117	TRP	CA-C-N	6.01	130.75	120.72
1	D	117	TRP	C-N-CA	6.01	130.75	120.72
1	I	163	ASP	CA-C-O	6.01	127.13	120.82
1	L	133	TRP	CB-CG-CD2	-6.01	118.39	126.80
1	R	115	ILE	N-CA-CB	6.01	117.58	110.55
1	V	113	GLU	N-CA-C	6.01	117.50	111.07
1	W	134	ILE	CA-CB-CG2	6.01	120.71	110.50
1	c	184	TRP	CA-C-N	6.01	128.61	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	184	TRP	C-N-CA	6.01	128.61	120.38
1	k	14	ALA	N-CA-C	6.01	118.94	110.23
1	d	141	ILE	CA-C-N	6.00	129.00	120.53
1	d	141	ILE	C-N-CA	6.00	129.00	120.53
1	d	188	THR	O-C-N	6.00	129.55	122.34
1	e	166	ASP	CA-CB-CG	6.00	118.61	112.60
1	B	29	GLU	N-CA-C	6.00	117.82	111.28
1	F	217	ALA	N-CA-C	6.00	118.96	110.50
1	e	113	GLU	N-CA-C	-6.00	104.31	111.69
1	d	137	GLY	CA-C-O	6.00	126.90	120.30
1	N	53	ASN	CA-C-N	6.00	128.64	120.54
1	N	53	ASN	C-N-CA	6.00	128.64	120.54
1	D	78	ALA	CA-C-N	6.00	128.81	120.29
1	D	78	ALA	C-N-CA	6.00	128.81	120.29
1	D	144	MET	CB-CA-C	6.00	122.19	110.67
1	E	124	ILE	CA-C-O	-6.00	115.76	119.12
1	I	90	PRO	CA-C-N	6.00	130.11	122.37
1	I	90	PRO	C-N-CA	6.00	130.11	122.37
1	R	16	SER	CA-C-N	6.00	125.88	119.28
1	R	16	SER	C-N-CA	6.00	125.88	119.28
1	R	114	GLN	O-C-N	-6.00	114.43	122.23
1	m	92	GLU	CB-CA-C	-6.00	100.11	109.11
1	X	53	ASN	CA-C-O	6.00	126.91	120.55
1	Z	127	GLY	CA-C-O	-6.00	113.70	120.30
1	a	31	ALA	CA-C-N	6.00	131.95	122.60
1	a	31	ALA	C-N-CA	6.00	131.95	122.60
1	c	54	THR	CB-CA-C	-6.00	100.84	110.79
1	I	204	ALA	CB-CA-C	-5.99	101.47	110.88
1	V	105	ALA	N-CA-C	-5.99	105.93	113.18
1	D	96	MET	CG-SD-CE	-5.99	87.72	100.90
1	Z	23	TRP	N-CA-C	5.99	117.48	111.07
1	i	121	ASN	O-C-N	-5.99	114.43	121.32
1	l	140	LYS	N-CA-C	5.99	118.30	111.11
1	m	21	ASN	CB-CA-C	5.99	120.29	110.88
1	d	164	TYR	CA-C-N	5.99	128.93	120.42
1	d	164	TYR	C-N-CA	5.99	128.93	120.42
1	e	128	GLU	CA-C-N	5.99	128.19	120.70
1	e	128	GLU	C-N-CA	5.99	128.19	120.70
1	G	47	ALA	O-C-N	-5.99	116.21	123.10
1	S	39	MET	CG-SD-CE	-5.99	87.72	100.90
1	D	169	TYR	CA-C-N	5.99	128.30	120.28
1	D	169	TYR	C-N-CA	5.99	128.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	106	GLY	CA-C-O	-5.99	112.35	119.06
1	A	131	LYS	CA-C-N	5.99	128.22	120.44
1	A	131	LYS	C-N-CA	5.99	128.22	120.44
1	B	212	GLU	O-C-N	-5.99	115.78	122.12
1	C	170	LYS	CG-CD-CE	5.99	125.06	111.30
1	L	55	MET	CA-C-O	-5.99	114.20	120.55
1	a	179	GLN	N-CA-C	5.99	118.29	111.11
1	b	211	LEU	CA-C-N	5.99	128.58	120.44
1	b	211	LEU	C-N-CA	5.99	128.58	120.44
1	j	79	GLU	O-C-N	-5.99	115.33	122.15
1	7	43	LEU	N-CA-C	-5.99	105.81	113.23
1	h	202	LEU	O-C-N	-5.99	115.78	122.12
1	O	12	HIS	CB-CG-CD2	-5.98	123.42	131.20
1	C	179	GLN	CA-C-O	5.98	126.76	120.42
1	E	15	ILE	N-CA-C	5.98	116.42	107.51
1	S	199	LYS	N-CA-C	5.98	117.80	111.28
1	c	75	GLU	CA-C-N	5.98	128.30	120.28
1	c	75	GLU	C-N-CA	5.98	128.30	120.28
1	6	132	ARG	O-C-N	-5.98	115.78	122.12
1	j	162	ARG	CA-C-N	5.98	128.78	120.29
1	j	162	ARG	C-N-CA	5.98	128.78	120.29
1	d	139	ASN	CA-CB-CG	-5.98	106.62	112.60
1	h	84	HIS	N-CA-CB	5.98	119.98	110.11
1	I	29	GLU	CB-CA-C	-5.98	101.45	110.90
1	6	212	GLU	O-C-N	-5.98	114.21	122.46
1	e	77	ALA	N-CA-C	5.98	117.88	111.36
1	H	117	TRP	CA-C-N	5.98	128.89	120.28
1	H	117	TRP	C-N-CA	5.98	128.89	120.28
1	H	220	GLY	N-CA-C	5.98	121.39	114.16
1	5	198	CYS	CA-C-O	5.98	126.59	119.60
1	U	184	TRP	CD2-CE2-CZ2	-5.98	116.42	122.40
1	j	229	ARG	CG-CD-NE	-5.98	98.85	112.00
1	B	170	LYS	CA-C-N	5.97	128.57	120.44
1	B	170	LYS	C-N-CA	5.97	128.57	120.44
1	D	11	VAL	CA-C-N	5.97	129.35	120.87
1	D	11	VAL	C-N-CA	5.97	129.35	120.87
1	D	81	ASP	CA-CB-CG	-5.97	106.62	112.60
1	G	200	THR	CA-CB-OG1	5.97	118.56	109.60
1	O	189	LEU	CA-C-N	5.97	128.61	120.54
1	O	189	LEU	C-N-CA	5.97	128.61	120.54
1	m	153	ILE	O-C-N	-5.97	116.14	122.95
1	d	165	VAL	CA-C-O	-5.97	114.52	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	77	ALA	CA-C-N	5.97	128.28	120.28
1	P	77	ALA	C-N-CA	5.97	128.28	120.28
1	Q	197	ASP	O-C-N	-5.97	115.79	122.12
1	Q	226	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	R	169	TYR	N-CA-C	5.97	117.87	111.36
1	R	186	THR	CA-C-O	5.97	127.09	120.82
1	T	99	PRO	CA-C-O	5.97	129.53	122.12
1	e	12	HIS	CA-C-N	5.97	131.94	122.74
1	e	12	HIS	C-N-CA	5.97	131.94	122.74
1	f	98	GLU	CA-C-O	-5.97	114.90	119.32
1	h	177	ALA	CA-C-N	5.97	129.35	120.87
1	h	177	ALA	C-N-CA	5.97	129.35	120.87
1	E	12	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	J	82	ARG	CD-NE-CZ	5.97	132.75	124.40
1	W	33	SER	O-C-N	-5.97	115.87	121.72
1	a	230	VAL	N-CA-CB	5.97	121.08	111.23
1	A	50	GLN	CA-C-O	-5.97	113.36	120.10
1	F	214	MET	O-C-N	-5.97	115.80	122.12
1	L	132	ARG	NE-CZ-NH2	5.97	124.57	119.20
1	S	51	ASP	CA-C-N	5.97	128.20	120.44
1	S	51	ASP	C-N-CA	5.97	128.20	120.44
1	e	50	GLN	CA-C-N	5.97	128.28	120.28
1	e	50	GLN	C-N-CA	5.97	128.28	120.28
1	I	201	ILE	CA-C-O	5.96	127.67	121.05
1	b	74	ASN	CA-CB-CG	-5.96	106.64	112.60
1	c	212	GLU	CA-C-O	5.96	126.84	120.10
1	h	179	GLN	CA-C-O	-5.96	114.19	120.63
1	K	90	PRO	N-CA-CB	-5.96	97.79	103.33
1	V	175	GLU	N-CA-C	5.96	118.88	110.23
1	R	58	THR	O-C-N	-5.96	114.23	122.46
1	C	173	ARG	NE-CZ-NH2	-5.96	113.84	119.20
1	D	152	ASP	CA-CB-CG	-5.96	106.64	112.60
1	F	182	LYS	O-C-N	-5.96	115.93	122.07
1	N	37	ILE	CA-C-O	5.96	123.92	118.85
1	6	15	ILE	N-CA-C	5.96	117.41	109.37
1	i	52	LEU	CA-C-N	5.96	129.07	120.79
1	i	52	LEU	C-N-CA	5.96	129.07	120.79
1	h	200	THR	O-C-N	-5.96	115.36	122.15
1	G	124	ILE	O-C-N	-5.96	116.39	121.57
1	N	60	GLY	CA-C-N	5.96	126.93	120.44
1	N	60	GLY	C-N-CA	5.96	126.93	120.44
1	S	21	ASN	N-CA-C	5.96	117.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	84	HIS	CA-C-O	-5.96	114.50	120.63
1	E	177	ALA	CA-C-N	5.96	129.57	120.82
1	E	177	ALA	C-N-CA	5.96	129.57	120.82
1	l	40	PHE	N-CA-C	5.96	118.26	111.11
1	6	70	LYS	N-CA-CB	-5.95	101.13	110.30
1	i	150	ILE	O-C-N	-5.95	116.39	122.23
1	d	5	ASN	CA-C-N	5.95	130.62	122.34
1	d	5	ASN	C-N-CA	5.95	130.62	122.34
1	N	18	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	Q	100	ARG	O-C-N	-5.95	115.72	122.68
1	S	149	SER	CA-C-O	5.95	127.83	121.11
1	6	41	SER	CA-C-O	-5.95	113.64	120.24
1	6	53	ASN	CA-C-N	5.95	128.25	120.28
1	6	53	ASN	C-N-CA	5.95	128.25	120.28
1	D	32	PHE	O-C-N	-5.95	116.44	123.22
1	i	9	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	m	39	MET	N-CA-C	5.95	118.72	111.82
1	W	66	MET	N-CA-CB	5.95	118.96	110.16
1	D	124	ILE	O-C-N	-5.95	114.32	121.10
1	5	114	GLN	CA-C-O	-5.95	114.58	120.82
1	c	163	ASP	O-C-N	-5.95	115.27	122.22
1	K	184	TRP	CA-C-N	5.94	128.17	120.44
1	K	184	TRP	C-N-CA	5.94	128.17	120.44
1	O	161	PHE	CA-CB-CG	5.94	119.74	113.80
1	Z	167	ARG	N-CA-C	5.94	117.76	111.28
1	b	141	ILE	CA-C-N	5.94	128.05	120.56
1	b	141	ILE	C-N-CA	5.94	128.05	120.56
1	c	14	ALA	CA-C-N	5.94	132.67	121.97
1	c	14	ALA	C-N-CA	5.94	132.67	121.97
1	6	167	ARG	N-CA-C	5.94	117.43	111.07
1	F	89	GLY	N-CA-C	5.94	119.13	112.00
1	I	4	GLN	O-C-N	-5.94	116.45	123.22
1	M	16	SER	O-C-N	-5.94	115.51	121.27
1	P	153	ILE	N-CA-C	5.94	117.24	109.58
1	V	115	ILE	CA-C-N	5.94	127.57	120.14
1	V	115	ILE	C-N-CA	5.94	127.57	120.14
1	l	133	TRP	O-C-N	-5.94	115.82	122.12
1	l	215	MET	N-CA-C	5.94	119.79	112.54
1	h	192	GLN	N-CA-C	5.94	117.43	111.07
1	C	52	LEU	N-CA-C	5.94	117.75	111.28
1	W	42	ALA	CA-C-O	5.94	126.84	120.55
1	a	103	ASP	N-CA-C	-5.94	104.16	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	69	LEU	O-C-N	-5.94	115.83	122.12
1	F	123	PRO	CA-C-O	-5.93	114.71	122.19
1	O	194	ALA	CA-C-N	5.93	136.28	121.80
1	O	194	ALA	C-N-CA	5.93	136.28	121.80
1	R	39	MET	CG-SD-CE	-5.93	87.85	100.90
1	Q	33	SER	CA-C-O	-5.93	114.62	120.26
1	Z	191	VAL	O-C-N	-5.93	115.88	121.87
1	5	164	TYR	N-CA-C	5.93	118.23	111.11
1	W	228	ALA	CA-C-N	5.93	128.23	120.28
1	W	228	ALA	C-N-CA	5.93	128.23	120.28
1	i	56	LEU	N-CA-C	5.93	118.70	111.82
1	V	68	MET	CA-C-O	5.93	126.83	120.55
1	l	173	ARG	CA-C-N	5.93	128.23	120.28
1	l	173	ARG	C-N-CA	5.93	128.23	120.28
1	K	171	THR	CA-C-N	5.93	129.32	120.31
1	K	171	THR	C-N-CA	5.93	129.32	120.31
1	m	212	GLU	O-C-N	-5.93	115.97	122.07
1	L	82	ARG	CA-C-N	5.93	128.22	120.28
1	L	82	ARG	C-N-CA	5.93	128.22	120.28
1	N	195	ASN	CA-CB-CG	5.93	118.53	112.60
1	S	135	ILE	CA-C-N	5.93	128.15	120.44
1	S	135	ILE	C-N-CA	5.93	128.15	120.44
1	d	167	ARG	NE-CZ-NH2	5.93	124.53	119.20
1	J	132	ARG	CA-C-N	5.92	128.22	120.28
1	J	132	ARG	C-N-CA	5.92	128.22	120.28
1	P	56	LEU	N-CA-C	5.92	117.41	111.07
1	S	43	LEU	CA-C-O	5.92	126.70	120.42
1	B	71	GLU	O-C-N	-5.92	115.29	122.22
1	J	113	GLU	CA-C-N	5.92	128.22	120.28
1	J	113	GLU	C-N-CA	5.92	128.22	120.28
1	P	173	ARG	N-CA-CB	-5.92	101.41	110.12
1	7	226	HIS	CA-C-N	5.92	129.03	120.38
1	7	226	HIS	C-N-CA	5.92	129.03	120.38
1	5	132	ARG	CD-NE-CZ	5.92	132.69	124.40
1	A	138	LEU	N-CA-CB	5.92	118.82	110.12
1	C	84	HIS	CA-C-N	5.92	125.68	119.76
1	C	84	HIS	C-N-CA	5.92	125.68	119.76
1	J	87	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	Q	202	LEU	CB-CA-C	-5.92	99.30	110.67
1	7	197	ASP	CA-CB-CG	-5.92	106.68	112.60
1	C	188	THR	CA-C-N	5.92	128.49	120.38
1	C	188	THR	C-N-CA	5.92	128.49	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	223	GLY	O-C-N	-5.92	115.85	121.77
1	b	54	THR	CA-CB-OG1	5.92	118.48	109.60
1	6	229	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	j	226	HIS	O-C-N	-5.92	116.20	122.30
1	C	64	ALA	CA-C-O	5.92	126.78	120.10
1	J	179	GLN	CA-C-O	5.92	126.77	119.97
1	K	96	MET	N-CA-C	5.92	119.17	109.76
1	D	2	ILE	CB-CA-C	-5.91	102.64	110.98
1	R	67	GLN	CA-C-N	5.91	129.30	120.31
1	R	67	GLN	C-N-CA	5.91	129.30	120.31
1	U	131	LYS	CA-C-O	-5.91	114.28	120.55
1	Y	155	GLN	CG-CD-NE2	-5.91	107.53	116.40
1	a	143	ARG	CA-C-O	5.91	126.78	120.10
1	k	131	LYS	N-CA-C	5.91	117.72	111.28
1	P	58	THR	N-CA-C	5.91	117.80	111.36
1	k	76	GLU	CB-CG-CD	-5.91	102.55	112.60
1	g	186	THR	O-C-N	-5.91	115.94	122.09
1	l	53	ASN	CA-CB-CG	-5.91	106.69	112.60
1	d	36	VAL	CA-C-N	5.91	125.06	120.33
1	d	36	VAL	C-N-CA	5.91	125.06	120.33
1	e	5	ASN	O-C-N	-5.91	114.73	122.59
1	m	178	SER	N-CA-C	5.91	117.92	110.24
1	A	29	GLU	N-CA-C	5.91	117.52	111.14
1	L	152	ASP	CA-C-N	5.91	130.04	121.18
1	L	152	ASP	C-N-CA	5.91	130.04	121.18
1	W	16	SER	O-C-N	-5.91	112.98	121.54
1	6	207	PRO	CA-C-N	5.91	132.06	122.67
1	6	207	PRO	C-N-CA	5.91	132.06	122.67
1	l	18	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	M	84	HIS	CB-CA-C	-5.90	100.52	111.20
1	M	227	LYS	N-CA-C	5.90	117.39	111.07
1	S	199	LYS	CB-CA-C	-5.90	100.99	110.79
1	5	174	ALA	N-CA-C	5.90	117.79	111.36
1	a	106	GLY	CA-C-O	5.90	124.85	118.95
1	g	139	ASN	N-CA-CB	-5.90	101.44	110.12
1	F	177	ALA	CA-C-O	-5.90	114.96	121.33
1	S	170	LYS	CA-C-N	5.90	130.67	120.58
1	S	170	LYS	C-N-CA	5.90	130.67	120.58
1	U	83	LEU	N-CA-C	5.90	118.95	111.69
1	j	78	ALA	O-C-N	-5.90	114.38	122.46
1	J	114	GLN	CB-CA-C	-5.90	101.00	110.79
1	U	53	ASN	CB-CA-C	-5.90	101.00	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	133	TRP	CE2-CD2-CE3	5.90	124.70	118.80
1	l	42	ALA	N-CA-CB	-5.90	101.41	110.20
1	X	125	PRO	CA-C-N	5.90	129.79	120.47
1	X	125	PRO	C-N-CA	5.90	129.79	120.47
1	h	52	LEU	N-CA-C	5.90	117.71	111.28
1	H	104	ILE	N-CA-CB	5.90	117.45	110.55
1	K	122	PRO	CB-CA-C	5.90	118.11	110.92
1	O	45	GLU	O-C-N	-5.89	114.75	122.59
1	5	107	THR	OG1-CB-CG2	-5.89	97.51	109.30
1	P	167	ARG	NE-CZ-NH2	5.89	124.50	119.20
1	V	94	GLY	CA-C-O	5.89	125.56	119.02
1	m	18	ARG	O-C-N	-5.89	115.87	122.12
1	N	37	ILE	O-C-N	-5.89	115.89	120.07
1	O	121	ASN	CB-CG-ND2	-5.89	107.56	116.40
1	N	79	GLU	CA-C-N	5.89	128.49	120.54
1	N	79	GLU	C-N-CA	5.89	128.49	120.54
1	R	89	GLY	O-C-N	-5.89	115.88	121.77
1	d	27	VAL	N-CA-C	5.89	116.67	110.72
1	j	184	TRP	CB-CG-CD1	5.89	135.73	126.90
1	F	200	THR	N-CA-C	5.89	117.50	111.14
1	V	18	ARG	N-CA-C	5.89	117.70	111.28
1	5	223	GLY	CA-C-O	5.89	129.94	121.52
1	a	112	GLN	CA-C-N	5.89	128.17	120.28
1	a	112	GLN	C-N-CA	5.89	128.17	120.28
1	m	62	HIS	N-CA-C	5.89	119.54	111.54
1	M	23	TRP	CB-CG-CD1	5.88	135.73	126.90
1	M	59	VAL	CA-CB-CG1	5.88	120.40	110.40
1	F	53	ASN	CA-CB-CG	-5.88	106.72	112.60
1	L	41	SER	CA-C-N	5.88	128.09	120.44
1	L	41	SER	C-N-CA	5.88	128.09	120.44
1	O	167	ARG	O-C-N	-5.88	115.44	122.15
1	k	228	ALA	N-CA-C	5.88	120.32	113.20
1	I	70	LYS	N-CA-C	5.88	117.69	111.28
1	K	25	LYS	CA-C-N	5.88	127.97	120.56
1	K	25	LYS	C-N-CA	5.88	127.97	120.56
1	a	61	GLY	CA-C-N	5.88	130.48	122.07
1	a	61	GLY	C-N-CA	5.88	130.48	122.07
1	A	220	GLY	CA-C-N	5.88	130.40	120.64
1	A	220	GLY	C-N-CA	5.88	130.40	120.64
1	S	154	ARG	CB-CG-CD	5.88	124.82	111.30
1	X	109	SER	N-CA-C	5.88	118.81	108.75
1	b	201	ILE	CA-C-N	5.88	128.64	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	201	ILE	C-N-CA	5.88	128.64	120.29
1	E	20	LEU	N-CA-C	5.88	117.77	111.36
1	H	153	ILE	CA-C-O	-5.88	114.16	121.04
1	M	65	ALA	N-CA-CB	5.88	119.27	110.22
1	Q	58	THR	N-CA-C	-5.88	105.97	113.02
1	R	113	GLU	O-C-N	-5.88	115.45	122.15
1	c	204	ALA	CA-C-O	5.88	126.78	120.55
1	Q	148	THR	CA-C-N	5.88	130.48	122.19
1	Q	148	THR	C-N-CA	5.88	130.48	122.19
1	T	104	ILE	N-CA-C	5.88	116.61	110.62
1	S	192	GLN	N-CA-C	-5.87	106.11	113.28
1	7	204	ALA	CA-C-N	5.87	129.24	120.31
1	7	204	ALA	C-N-CA	5.87	129.24	120.31
1	J	180	GLU	CA-C-O	-5.87	114.65	120.82
1	m	31	ALA	CA-C-N	5.87	130.23	121.72
1	m	31	ALA	C-N-CA	5.87	130.23	121.72
1	k	82	ARG	NE-CZ-NH2	5.87	124.48	119.20
1	D	87	HIS	CB-CG-CD2	-5.87	123.57	131.20
1	J	173	ARG	CA-C-O	-5.87	114.33	120.55
1	U	201	ILE	O-C-N	-5.87	116.16	121.91
1	h	47	ALA	O-C-N	-5.87	116.17	123.04
1	l	80	TRP	CD2-CE2-CZ2	-5.87	116.53	122.40
1	B	140	LYS	N-CA-C	-5.87	106.08	113.18
1	G	9	GLN	CA-C-N	5.87	131.30	122.68
1	G	9	GLN	C-N-CA	5.87	131.30	122.68
1	b	154	ARG	CA-C-N	5.87	129.04	120.71
1	b	154	ARG	C-N-CA	5.87	129.04	120.71
1	i	156	GLY	O-C-N	-5.87	115.91	121.77
1	K	164	TYR	N-CA-C	5.86	117.67	111.28
1	L	90	PRO	CA-C-O	-5.86	114.86	121.43
1	M	56	LEU	N-CA-C	5.86	118.45	111.71
1	5	101	GLY	CA-C-N	5.86	128.72	120.28
1	5	101	GLY	C-N-CA	5.86	128.72	120.28
1	j	134	ILE	N-CA-C	5.86	116.05	110.42
1	A	152	ASP	N-CA-C	-5.86	103.60	112.04
1	C	169	TYR	N-CA-C	5.86	117.67	111.28
1	Z	123	PRO	N-CA-CB	5.86	108.55	103.27
1	d	33	SER	CA-C-N	5.86	127.17	119.84
1	d	33	SER	C-N-CA	5.86	127.17	119.84
1	a	74	ASN	CA-CB-CG	-5.86	106.74	112.60
1	d	39	MET	CA-C-O	5.86	126.76	120.55
1	J	56	LEU	N-CA-CB	-5.86	101.49	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	157	PRO	N-CA-CB	5.86	109.72	103.39
1	T	40	PHE	O-C-N	-5.86	115.91	122.12
1	h	205	LEU	N-CA-C	-5.86	105.22	112.90
1	B	179	GLN	CA-C-N	5.86	128.05	120.44
1	B	179	GLN	C-N-CA	5.86	128.05	120.44
1	D	121	ASN	CB-CA-C	-5.86	101.51	109.42
1	f	141	ILE	O-C-N	-5.86	116.19	121.87
1	B	87	HIS	CB-CG-ND1	5.85	131.48	122.70
1	V	54	THR	CA-CB-OG1	-5.85	100.82	109.60
1	5	77	ALA	CA-C-N	5.85	128.05	120.44
1	5	77	ALA	C-N-CA	5.85	128.05	120.44
1	h	163	ASP	CA-CB-CG	5.85	118.45	112.60
1	A	28	GLU	CA-C-N	5.85	128.40	120.44
1	A	28	GLU	C-N-CA	5.85	128.40	120.44
1	D	130	TYR	N-CA-C	5.85	117.66	111.28
1	E	10	MET	O-C-N	-5.85	113.78	122.67
1	G	200	THR	CA-C-N	5.85	128.05	120.56
1	G	200	THR	C-N-CA	5.85	128.05	120.56
1	P	213	GLU	CA-C-O	5.85	126.75	120.55
1	c	188	THR	CA-CB-CG2	5.85	120.45	110.50
1	k	10	MET	N-CA-C	5.85	118.26	110.53
1	V	148	THR	O-C-N	-5.85	115.40	123.01
1	Z	218	CYS	CA-C-N	5.85	132.72	121.54
1	Z	218	CYS	C-N-CA	5.85	132.72	121.54
1	a	28	GLU	CB-CA-C	-5.85	101.66	110.90
1	F	114	GLN	CA-C-N	5.85	129.89	120.30
1	F	114	GLN	C-N-CA	5.85	129.89	120.30
1	O	167	ARG	CA-C-O	5.85	126.62	120.42
1	R	150	ILE	O-C-N	-5.85	116.16	121.89
1	T	135	ILE	CA-C-O	5.85	126.83	120.57
1	Z	97	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	j	113	GLU	N-CA-C	5.85	117.66	111.28
1	d	110	THR	CA-CB-OG1	5.85	118.38	109.60
1	J	62	HIS	ND1-CE1-NE2	5.85	114.25	108.40
1	K	128	GLU	O-C-N	-5.85	115.08	122.27
1	S	91	ILE	O-C-N	-5.85	116.74	123.00
1	f	15	ILE	CA-CB-CG1	5.85	120.34	110.40
1	a	67	GLN	CA-C-N	5.84	128.39	120.44
1	a	67	GLN	C-N-CA	5.84	128.39	120.44
1	7	117	TRP	CE2-CD2-CE3	5.84	124.64	118.80
1	c	159	GLU	CA-C-O	-5.84	112.18	119.54
1	P	62	HIS	CB-CG-CD2	-5.84	123.61	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	173	ARG	O-C-N	-5.84	115.39	122.22
1	h	68	MET	N-CA-CB	5.84	118.48	110.01
1	S	125	PRO	N-CA-CB	-5.84	97.12	103.25
1	6	59	VAL	N-CA-C	5.84	118.35	111.05
1	7	33	SER	CA-C-O	-5.84	113.36	120.54
1	Y	182	LYS	N-CA-C	5.84	118.42	111.71
1	Z	83	LEU	CA-C-O	-5.84	114.69	120.82
1	6	173	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	H	28	GLU	O-C-N	5.84	128.08	122.07
1	L	177	ALA	N-CA-C	5.84	118.23	110.53
1	l	90	PRO	CA-C-N	5.84	130.96	121.62
1	l	90	PRO	C-N-CA	5.84	130.96	121.62
1	D	23	TRP	CG-CD2-CE3	-5.83	128.07	133.90
1	M	167	ARG	CA-C-O	5.83	126.68	119.97
1	V	187	GLU	CA-C-O	5.83	125.83	119.24
1	Y	200	THR	N-CA-CB	5.83	118.63	109.94
1	Z	215	MET	N-CA-C	5.83	118.42	111.71
1	k	124	ILE	N-CA-CB	5.83	120.14	111.86
1	h	82	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	A	189	LEU	CA-C-N	5.83	128.02	120.44
1	A	189	LEU	C-N-CA	5.83	128.02	120.44
1	J	80	TRP	CA-C-N	5.83	128.41	120.54
1	J	80	TRP	C-N-CA	5.83	128.41	120.54
1	M	230	VAL	CA-CB-CG2	5.83	120.31	110.40
1	R	67	GLN	CG-CD-NE2	-5.83	107.65	116.40
1	e	217	ALA	CB-CA-C	5.83	119.39	109.53
1	h	139	ASN	O-C-N	-5.83	115.50	122.15
1	G	46	GLY	N-CA-C	-5.83	107.21	115.43
1	R	110	THR	O-C-N	-5.83	116.41	122.94
1	X	50	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	6	86	VAL	O-C-N	-5.83	116.26	122.61
1	e	102	SER	CA-C-O	5.83	126.67	119.79
1	i	67	GLN	N-CA-C	5.83	118.41	111.71
1	i	195	ASN	CA-C-N	5.83	127.13	119.84
1	i	195	ASN	C-N-CA	5.83	127.13	119.84
1	A	80	TRP	O-C-N	-5.83	115.94	122.12
1	B	25	LYS	CA-C-N	5.83	127.90	120.56
1	B	25	LYS	C-N-CA	5.83	127.90	120.56
1	T	139	ASN	CA-C-N	5.83	128.36	120.44
1	T	139	ASN	C-N-CA	5.83	128.36	120.44
1	T	208	ALA	O-C-N	-5.83	116.07	122.07
1	X	37	ILE	CA-C-N	5.83	127.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	37	ILE	C-N-CA	5.83	127.12	119.84
1	5	130	TYR	CA-C-O	5.83	126.70	120.70
1	B	162	ARG	CB-CA-C	-5.83	100.78	110.68
1	O	89	GLY	CA-C-N	5.83	125.84	119.90
1	O	89	GLY	C-N-CA	5.83	125.84	119.90
1	7	137	GLY	CA-C-O	-5.83	115.05	121.05
1	d	45	GLU	N-CA-C	5.83	117.95	108.63
1	h	105	ALA	N-CA-CB	-5.83	102.02	110.47
1	J	229	ARG	CA-C-O	5.82	127.40	120.70
1	R	48	THR	N-CA-CB	5.82	116.50	109.74
1	5	159	GLU	N-CA-C	5.82	116.99	109.65
1	d	16	SER	CA-C-N	5.82	127.12	119.84
1	d	16	SER	C-N-CA	5.82	127.12	119.84
1	f	74	ASN	CA-CB-CG	-5.82	106.78	112.60
1	A	12	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	e	26	VAL	O-C-N	-5.82	115.84	121.90
1	C	208	ALA	N-CA-CB	-5.82	101.33	110.06
1	S	209	ALA	CB-CA-C	5.82	120.25	109.54
1	a	26	VAL	CB-CA-C	-5.82	104.19	112.22
1	b	57	ASN	CA-CB-CG	-5.82	106.78	112.60
1	T	80	TRP	CA-C-O	-5.82	114.38	120.55
1	E	143	ARG	CA-C-N	5.82	134.03	121.64
1	E	143	ARG	C-N-CA	5.82	134.03	121.64
1	R	189	LEU	CB-CA-C	-5.82	101.71	110.90
1	Y	230	VAL	CB-CA-C	-5.82	103.99	111.20
1	F	201	ILE	N-CA-C	5.82	116.55	110.62
1	a	221	VAL	CA-C-O	5.82	125.93	119.42
1	M	49	PRO	O-C-N	-5.81	114.72	122.22
1	l	184	TRP	CD2-CE2-CZ2	-5.81	116.59	122.40
1	l	216	THR	CA-C-N	5.81	129.09	120.90
1	l	216	THR	C-N-CA	5.81	129.09	120.90
1	6	173	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	k	34	PRO	N-CA-CB	-5.81	97.15	103.25
1	f	231	LEU	N-CA-CB	-5.81	100.62	110.50
1	M	99	PRO	CA-C-O	-5.81	114.83	121.98
1	R	73	ILE	CA-C-O	5.81	127.01	120.85
1	V	93	PRO	N-CA-CB	-5.81	97.96	103.19
1	k	12	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	m	48	THR	CA-C-O	-5.81	112.20	120.16
1	e	60	GLY	O-C-N	-5.81	115.15	122.70
1	e	104	ILE	CA-CB-CG1	5.81	120.28	110.40
1	h	181	VAL	CA-C-N	5.81	129.14	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	181	VAL	C-N-CA	5.81	129.14	120.31
1	h	224	PRO	N-CA-CB	5.81	108.42	103.19
1	J	131	LYS	N-CA-CB	-5.81	101.56	110.16
1	M	36	VAL	N-CA-CB	5.81	120.26	110.56
1	R	73	ILE	N-CA-CB	5.81	119.29	110.58
1	U	2	ILE	N-CA-C	5.81	117.56	109.55
1	W	47	ALA	CA-C-O	5.81	128.57	121.72
1	b	22	ALA	O-C-N	-5.81	115.97	122.12
1	h	80	TRP	CB-CG-CD2	-5.81	118.67	126.80
1	D	133	TRP	CA-C-N	5.80	127.87	120.56
1	D	133	TRP	C-N-CA	5.80	127.87	120.56
1	P	140	LYS	CA-C-N	5.80	127.87	120.56
1	P	140	LYS	C-N-CA	5.80	127.87	120.56
1	S	177	ALA	O-C-N	-5.80	115.96	122.75
1	X	55	MET	CA-C-O	-5.80	114.72	120.70
1	K	122	PRO	N-CA-C	5.80	117.78	110.70
1	R	24	VAL	CA-C-N	5.80	128.64	120.28
1	R	24	VAL	C-N-CA	5.80	128.64	120.28
1	R	81	ASP	CA-CB-CG	-5.80	106.80	112.60
1	D	67	GLN	N-CA-C	-5.80	105.09	111.82
1	H	50	GLN	CA-C-O	-5.80	114.73	120.82
1	J	132	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	c	64	ALA	N-CA-C	5.80	117.68	111.36
1	f	155	GLN	N-CA-C	5.80	118.12	109.59
1	J	207	PRO	O-C-N	5.80	130.10	122.27
1	P	191	VAL	CA-CB-CG1	5.80	120.26	110.40
1	j	114	GLN	CA-C-N	5.80	128.66	120.42
1	j	114	GLN	C-N-CA	5.80	128.66	120.42
1	e	159	GLU	CB-CG-CD	-5.80	102.74	112.60
1	g	70	LYS	CA-C-N	5.80	127.98	120.44
1	g	70	LYS	C-N-CA	5.80	127.98	120.44
1	e	147	PRO	CA-C-N	5.80	130.13	122.30
1	e	147	PRO	C-N-CA	5.80	130.13	122.30
1	I	92	GLU	O-C-N	-5.80	114.94	121.43
1	P	4	GLN	O-C-N	-5.80	114.80	121.99
1	6	130	TYR	N-CA-C	5.80	117.60	111.28
1	Y	27	VAL	CA-C-O	-5.79	113.99	120.25
1	A	93	PRO	N-CA-C	5.79	121.16	113.40
1	H	174	ALA	CA-C-O	-5.79	114.28	120.42
1	W	121	ASN	CA-CB-CG	-5.79	106.81	112.60
1	D	58	THR	OG1-CB-CG2	-5.79	97.72	109.30
1	F	94	GLY	O-C-N	-5.79	116.31	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	70	LYS	O-C-N	-5.79	116.11	122.07
1	Z	49	PRO	CA-C-N	5.79	127.97	120.44
1	Z	49	PRO	C-N-CA	5.79	127.97	120.44
1	j	173	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	m	30	LYS	O-C-N	5.79	129.47	122.35
1	D	174	ALA	O-C-N	-5.79	115.98	122.12
1	R	133	TRP	CD2-CE2-CZ2	-5.79	116.61	122.40
1	T	115	ILE	N-CA-CB	5.79	118.41	110.54
1	X	183	ASN	O-C-N	-5.79	116.11	122.07
1	6	80	TRP	N-CA-C	5.79	117.59	111.28
1	i	78	ALA	CA-C-N	5.79	130.51	120.68
1	i	78	ALA	C-N-CA	5.79	130.51	120.68
1	d	173	ARG	CA-C-N	5.79	128.50	120.29
1	d	173	ARG	C-N-CA	5.79	128.50	120.29
1	e	221	VAL	N-CA-C	5.79	117.50	109.29
1	A	117	TRP	O-C-N	-5.78	115.56	122.15
1	H	148	THR	O-C-N	-5.78	116.73	123.27
1	J	171	THR	CA-C-O	5.78	126.62	119.97
1	P	19	THR	CA-CB-CG2	5.78	120.33	110.50
1	T	22	ALA	CA-C-N	5.78	128.83	120.79
1	T	22	ALA	C-N-CA	5.78	128.83	120.79
1	T	48	THR	CA-C-N	5.78	125.91	119.32
1	T	48	THR	C-N-CA	5.78	125.91	119.32
1	T	104	ILE	O-C-N	-5.78	116.26	121.87
1	H	133	TRP	CE2-CD2-CE3	5.78	124.58	118.80
1	S	7	GLN	CA-C-O	5.78	126.51	119.11
1	I	201	ILE	N-CA-C	5.78	115.96	110.53
1	M	166	ASP	CA-C-O	5.78	127.43	121.07
1	Q	110	THR	O-C-N	-5.78	116.13	122.84
1	T	204	ALA	N-CA-C	5.78	117.66	111.36
1	W	214	MET	CA-C-O	5.78	126.11	119.35
1	m	18	ARG	N-CA-C	5.78	117.58	111.28
1	P	63	GLN	O-C-N	-5.78	114.59	122.33
1	Y	146	SER	N-CA-CB	5.78	120.08	109.73
1	E	27	VAL	O-C-N	-5.78	116.25	121.91
1	E	82	ARG	O-C-N	-5.78	115.56	122.15
1	G	72	THR	N-CA-CB	5.78	118.61	110.12
1	M	125	PRO	N-CA-CB	-5.78	97.18	103.25
1	m	40	PHE	CA-CB-CG	-5.78	108.02	113.80
1	A	176	GLN	OE1-CD-NE2	-5.78	116.83	122.60
1	B	103	ASP	CA-C-O	5.78	126.54	120.42
1	C	224	PRO	CB-CA-C	5.78	121.09	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	195	ASN	N-CA-C	5.78	116.97	109.64
1	N	178	SER	O-C-N	-5.78	115.55	122.65
1	k	205	LEU	N-CA-C	5.78	117.25	111.07
1	G	165	VAL	CA-C-N	5.77	128.29	120.44
1	G	165	VAL	C-N-CA	5.77	128.29	120.44
1	R	150	ILE	N-CA-C	5.77	117.20	110.62
1	S	103	ASP	CB-CA-C	-5.77	101.03	110.85
1	V	84	HIS	N-CA-C	5.77	122.57	109.81
1	6	10	MET	N-CA-CB	-5.77	101.11	109.83
1	j	9	GLN	N-CA-C	5.77	118.70	110.10
1	G	152	ASP	CB-CA-C	5.77	120.37	110.79
1	H	89	GLY	O-C-N	-5.77	116.00	121.77
1	J	139	ASN	CB-CG-ND2	-5.77	107.74	116.40
1	T	185	MET	CG-SD-CE	-5.77	88.20	100.90
1	X	82	ARG	CD-NE-CZ	5.77	132.48	124.40
1	c	20	LEU	CA-C-O	-5.77	114.94	121.00
1	6	14	ALA	N-CA-C	5.77	118.85	110.42
1	Y	165	VAL	CA-C-N	5.77	128.33	120.54
1	Y	165	VAL	C-N-CA	5.77	128.33	120.54
1	5	139	ASN	OD1-CG-ND2	-5.77	116.83	122.60
1	7	104	ILE	N-CA-C	5.77	116.55	110.72
1	f	108	THR	CB-CA-C	-5.77	102.18	111.18
1	f	209	ALA	O-C-N	-5.77	116.44	122.96
1	B	168	PHE	O-C-N	-5.77	116.00	122.12
1	M	134	ILE	O-C-N	-5.77	116.26	121.91
1	P	103	ASP	CA-C-O	5.77	126.60	119.97
1	Z	14	ALA	N-CA-C	5.77	119.02	110.48
1	k	62	HIS	CB-CA-C	5.77	119.59	111.86
1	d	153	ILE	O-C-N	-5.77	116.68	122.62
1	d	199	LYS	O-C-N	-5.77	114.70	122.43
1	N	13	GLN	N-CA-C	-5.77	98.89	108.75
1	R	52	LEU	N-CA-C	5.77	118.31	111.33
1	l	96	MET	CG-SD-CE	5.77	113.59	100.90
1	e	132	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	A	84	HIS	CA-CB-CG	5.77	119.57	113.80
1	U	75	GLU	O-C-N	-5.77	115.18	122.27
1	k	29	GLU	N-CA-CB	5.77	118.66	110.13
1	g	183	ASN	CB-CG-OD1	5.77	132.33	120.80
1	J	226	HIS	CE1-NE2-CD2	-5.76	103.23	109.00
1	P	74	ASN	OD1-CG-ND2	-5.76	116.83	122.60
1	V	97	ARG	N-CA-C	5.76	118.19	110.35
1	l	166	ASP	O-C-N	-5.76	116.13	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	101	GLY	CA-C-N	5.76	128.00	120.28
1	P	101	GLY	C-N-CA	5.76	128.00	120.28
1	Q	26	VAL	O-C-N	-5.76	115.89	121.83
1	Q	57	ASN	CA-CB-CG	5.76	118.36	112.60
1	c	1	PRO	CB-CA-C	5.76	121.05	110.10
1	G	178	SER	N-CA-C	5.76	117.98	110.43
1	N	17	PRO	CA-C-N	5.76	128.00	120.28
1	N	17	PRO	C-N-CA	5.76	128.00	120.28
1	Q	117	TRP	CD2-CE2-CZ2	-5.76	116.64	122.40
1	R	219	GLN	CA-C-O	5.76	126.01	119.27
1	a	161	PHE	CA-C-N	5.76	128.32	120.54
1	a	161	PHE	C-N-CA	5.76	128.32	120.54
1	b	17	PRO	N-CA-CB	-5.76	98.10	103.46
1	E	139	ASN	O-C-N	-5.76	116.02	122.12
1	G	109	SER	O-C-N	-5.76	115.90	123.16
1	T	214	MET	CA-C-O	5.76	126.54	119.05
1	X	120	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	6	128	GLU	N-CA-CB	5.76	118.68	110.16
1	i	106	GLY	CA-C-N	5.76	128.47	120.29
1	i	106	GLY	C-N-CA	5.76	128.47	120.29
1	C	198	CYS	N-CA-CB	5.76	118.36	110.01
1	H	122	PRO	CA-C-N	5.76	125.52	119.76
1	H	122	PRO	C-N-CA	5.76	125.52	119.76
1	I	221	VAL	CB-CA-C	-5.76	104.28	112.22
1	N	208	ALA	N-CA-CB	-5.76	102.15	110.56
1	R	195	ASN	CB-CA-C	5.76	118.90	109.46
1	X	187	GLU	CA-C-N	5.76	128.79	120.79
1	X	187	GLU	C-N-CA	5.76	128.79	120.79
1	m	139	ASN	N-CA-CB	5.76	118.58	110.12
1	e	133	TRP	CA-C-O	5.76	126.59	119.97
1	C	167	ARG	O-C-N	-5.75	116.02	122.12
1	J	120	HIS	N-CA-C	5.75	117.75	110.33
1	T	73	ILE	N-CA-CB	-5.75	103.82	110.55
1	6	179	GLN	N-CA-CB	5.75	118.35	110.01
1	m	160	PRO	O-C-N	-5.75	115.88	123.01
1	C	226	HIS	CA-CB-CG	-5.75	108.05	113.80
1	E	158	LYS	CB-CA-C	-5.75	103.40	111.85
1	T	195	ASN	CA-C-N	5.75	125.61	119.28
1	T	195	ASN	C-N-CA	5.75	125.61	119.28
1	e	136	LEU	O-C-N	-5.75	116.15	122.07
1	T	195	ASN	CA-CB-CG	5.75	118.35	112.60
1	i	125	PRO	N-CA-C	-5.75	100.62	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	129	ILE	CA-C-N	5.75	128.46	120.29
1	i	129	ILE	C-N-CA	5.75	128.46	120.29
1	K	103	ASP	N-CA-C	5.75	117.55	111.28
1	W	49	PRO	CA-C-N	5.75	127.91	120.44
1	W	49	PRO	C-N-CA	5.75	127.91	120.44
1	W	163	ASP	O-C-N	-5.75	115.60	122.15
1	K	33	SER	O-C-N	-5.75	116.86	121.80
1	a	45	GLU	CA-C-O	-5.75	114.14	120.69
1	6	167	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	E	146	SER	CB-CA-C	-5.75	103.79	110.17
1	W	161	PHE	N-CA-C	5.75	117.62	111.36
1	7	53	ASN	CB-CA-C	-5.75	99.64	110.67
1	K	84	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	L	82	ARG	O-C-N	-5.74	115.60	122.15
1	R	133	TRP	CG-CD2-CE3	-5.74	128.16	133.90
1	6	7	GLN	O-C-N	-5.74	117.78	123.46
1	6	226	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	l	184	TRP	O-C-N	-5.74	116.03	122.12
1	G	117	TRP	O-C-N	-5.74	115.89	122.09
1	H	13	GLN	CG-CD-NE2	5.74	125.01	116.40
1	S	143	ARG	NE-CZ-NH2	5.74	124.37	119.20
1	U	2	ILE	CB-CA-C	-5.74	103.71	111.63
1	W	5	ASN	CA-CB-CG	-5.74	106.86	112.60
1	Y	113	GLU	CB-CA-C	-5.74	101.87	110.88
1	J	107	THR	CA-C-O	5.74	127.48	120.31
1	N	142	VAL	N-CA-CB	-5.74	103.84	110.55
1	P	215	MET	CA-C-N	5.74	128.44	120.29
1	P	215	MET	C-N-CA	5.74	128.44	120.29
1	U	114	GLN	N-CA-C	5.74	118.00	111.11
1	W	87	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	B	21	ASN	CA-C-N	5.74	127.97	120.28
1	B	21	ASN	C-N-CA	5.74	127.97	120.28
1	U	97	ARG	NH1-CZ-NH2	-5.74	111.84	119.30
1	U	226	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	Z	188	THR	CA-CB-CG2	5.74	120.25	110.50
1	5	9	GLN	N-CA-C	-5.74	100.54	109.72
1	l	115	ILE	N-CA-CB	-5.74	101.98	110.58
1	m	152	ASP	CA-CB-CG	-5.73	106.87	112.60
1	I	134	ILE	CB-CA-C	-5.73	104.63	111.97
1	S	80	TRP	CB-CG-CD1	5.73	135.50	126.90
1	R	106	GLY	CA-C-O	5.73	126.12	119.13
1	V	129	ILE	CA-C-N	5.73	127.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	129	ILE	C-N-CA	5.73	127.96	120.28
1	5	62	HIS	ND1-CG-CD2	5.73	111.83	106.10
1	D	151	LEU	CA-C-O	5.73	125.97	119.27
1	V	187	GLU	O-C-N	-5.73	114.68	122.36
1	Y	36	VAL	CA-CB-CG2	5.73	120.14	110.40
1	b	15	ILE	N-CA-C	5.73	116.66	108.93
1	D	219	GLN	CA-C-N	5.72	127.30	120.14
1	D	219	GLN	C-N-CA	5.72	127.30	120.14
1	F	40	PHE	CA-C-O	-5.72	114.48	120.55
1	O	122	PRO	CA-C-N	5.72	126.17	119.99
1	O	122	PRO	C-N-CA	5.72	126.17	119.99
1	W	146	SER	CA-CB-OG	5.72	122.55	111.10
1	X	52	LEU	CA-C-N	5.72	127.95	120.28
1	X	52	LEU	C-N-CA	5.72	127.95	120.28
1	k	207	PRO	CA-C-O	-5.72	111.69	118.90
1	d	104	ILE	CB-CA-C	-5.72	102.98	112.26
1	d	180	GLU	N-CA-C	5.72	118.29	111.71
1	B	11	VAL	O-C-N	-5.72	117.17	123.18
1	B	36	VAL	N-CA-C	5.72	116.45	110.62
1	B	111	LEU	N-CA-C	5.72	118.29	111.71
1	M	143	ARG	CB-CG-CD	5.72	124.46	111.30
1	M	153	ILE	CA-CB-CG1	5.72	120.13	110.40
1	Q	181	VAL	N-CA-CB	5.72	117.24	110.55
1	6	54	THR	CA-C-N	5.72	128.20	120.65
1	6	54	THR	C-N-CA	5.72	128.20	120.65
1	h	197	ASP	CA-C-N	5.72	129.00	120.31
1	h	197	ASP	C-N-CA	5.72	129.00	120.31
1	H	54	THR	CA-C-N	5.72	127.88	120.44
1	H	54	THR	C-N-CA	5.72	127.88	120.44
1	N	64	ALA	N-CA-CB	5.72	118.30	110.01
1	O	120	HIS	CA-CB-CG	-5.72	108.08	113.80
1	T	81	ASP	O-C-N	-5.72	116.18	122.07
1	W	74	ASN	CA-C-N	5.72	127.94	120.28
1	W	74	ASN	C-N-CA	5.72	127.94	120.28
1	a	21	ASN	N-CA-C	-5.72	105.12	111.36
1	6	120	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	H	142	VAL	CA-CB-CG1	5.72	120.12	110.40
1	O	53	ASN	CA-C-O	-5.72	114.45	120.63
1	V	89	GLY	CA-C-N	5.72	126.99	119.84
1	V	89	GLY	C-N-CA	5.72	126.99	119.84
1	l	67	GLN	N-CA-C	5.72	118.25	111.33
1	l	162	ARG	O-C-N	-5.72	116.06	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	37	ILE	CA-C-N	5.72	126.98	119.84
1	U	37	ILE	C-N-CA	5.72	126.98	119.84
1	5	102	SER	CA-C-N	5.72	128.41	120.29
1	5	102	SER	C-N-CA	5.72	128.41	120.29
1	l	14	ALA	CA-C-N	5.72	128.16	120.50
1	l	14	ALA	C-N-CA	5.72	128.16	120.50
1	A	72	THR	N-CA-CB	5.71	118.30	110.01
1	D	75	GLU	CB-CG-CD	5.71	122.31	112.60
1	M	96	MET	O-C-N	-5.71	116.39	123.36
1	N	202	LEU	N-CA-C	5.71	119.06	111.75
1	R	58	THR	CA-C-O	5.71	126.48	119.05
1	j	84	HIS	CB-CG-CD2	5.71	138.63	131.20
1	S	126	VAL	N-CA-C	5.71	117.13	110.62
1	E	113	GLU	CB-CA-C	-5.71	101.31	110.79
1	V	188	THR	CA-C-O	5.71	127.47	120.56
1	a	125	PRO	CA-C-N	5.71	127.97	120.60
1	a	125	PRO	C-N-CA	5.71	127.97	120.60
1	i	165	VAL	CB-CA-C	5.71	119.85	112.14
1	l	117	TRP	CE2-CD2-CE3	5.71	124.51	118.80
1	d	135	ILE	N-CA-C	5.71	119.05	111.17
1	W	176	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	Z	2	ILE	CA-CB-CG1	5.71	120.11	110.40
1	X	164	TYR	N-CA-C	5.71	117.18	111.07
1	h	120	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	R	28	GLU	N-CA-CB	-5.71	101.74	110.01
1	5	42	ALA	CA-C-N	5.71	128.50	120.28
1	5	42	ALA	C-N-CA	5.71	128.50	120.28
1	f	84	HIS	CE1-NE2-CD2	-5.71	103.30	109.00
1	H	195	ASN	CA-C-N	5.70	125.38	119.05
1	H	195	ASN	C-N-CA	5.70	125.38	119.05
1	b	199	LYS	CA-C-N	5.70	128.24	120.54
1	b	199	LYS	C-N-CA	5.70	128.24	120.54
1	K	14	ALA	CB-CA-C	5.70	119.82	109.62
1	M	98	GLU	CA-C-O	-5.70	114.49	120.02
1	5	215	MET	O-C-N	-5.70	115.26	122.27
1	l	76	GLU	CA-C-O	5.70	126.53	119.97
1	f	176	GLN	O-C-N	-5.70	115.47	122.25
1	D	136	LEU	N-CA-C	5.70	118.26	111.71
1	G	50	GLN	CA-C-O	-5.70	114.84	120.82
1	I	135	ILE	CA-C-N	5.70	128.23	120.54
1	I	135	ILE	C-N-CA	5.70	128.23	120.54
1	V	8	GLY	N-CA-C	5.70	121.47	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	100	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
1	X	120	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	F	126	VAL	CA-C-O	5.70	126.97	121.05
1	S	167	ARG	N-CA-CB	-5.70	101.73	110.16
1	6	181	VAL	N-CA-CB	-5.70	103.28	110.57
1	j	108	THR	CA-CB-OG1	5.70	118.14	109.60
1	e	121	ASN	N-CA-C	5.70	118.52	109.64
1	g	12	HIS	CA-CB-CG	5.70	119.50	113.80
1	A	181	VAL	N-CA-C	5.69	116.47	110.72
1	E	92	GLU	CA-C-N	5.69	126.96	119.84
1	E	92	GLU	C-N-CA	5.69	126.96	119.84
1	L	62	HIS	CA-CB-CG	5.69	119.49	113.80
1	a	3	VAL	N-CA-C	5.69	116.61	107.73
1	i	55	MET	N-CA-C	5.69	117.29	111.14
1	d	57	ASN	O-C-N	-5.69	115.35	122.24
1	A	51	ASP	N-CA-C	5.69	117.16	111.07
1	C	123	PRO	O-C-N	-5.69	116.14	123.03
1	V	54	THR	N-CA-CB	5.69	118.49	110.12
1	c	134	ILE	O-C-N	-5.69	115.98	121.90
1	l	63	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	C	37	ILE	O-C-N	-5.69	114.61	121.10
1	F	22	ALA	O-C-N	-5.69	115.66	122.15
1	J	72	THR	CA-C-O	5.69	126.80	120.82
1	Q	6	LEU	O-C-N	-5.69	114.46	122.26
1	X	27	VAL	N-CA-C	5.69	118.16	111.05
1	m	72	THR	O-C-N	-5.69	116.09	122.12
1	e	22	ALA	CA-C-N	5.69	128.18	120.44
1	e	22	ALA	C-N-CA	5.69	128.18	120.44
1	h	69	LEU	CB-CA-C	-5.69	101.34	110.79
1	B	136	LEU	CA-C-N	5.69	127.25	120.14
1	B	136	LEU	C-N-CA	5.69	127.25	120.14
1	F	215	MET	CA-C-O	-5.69	112.61	119.49
1	R	9	GLN	CB-CG-CD	-5.69	102.93	112.60
1	b	176	GLN	N-CA-C	5.69	119.19	111.17
1	h	24	VAL	O-C-N	-5.69	115.97	121.83
1	B	125	PRO	CB-CA-C	-5.69	105.36	113.09
1	D	48	THR	CA-C-N	5.69	125.80	119.32
1	D	48	THR	C-N-CA	5.69	125.80	119.32
1	m	124	ILE	O-C-N	-5.69	114.62	121.10
1	A	126	VAL	N-CA-C	5.68	115.88	110.42
1	K	119	THR	CA-CB-OG1	5.68	118.13	109.60
1	L	176	GLN	N-CA-C	5.68	119.52	112.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	143	ARG	O-C-N	-5.68	116.09	122.12
1	l	38	PRO	CA-C-O	-5.68	110.98	119.34
1	C	42	ALA	CA-C-N	5.68	127.90	120.28
1	C	42	ALA	C-N-CA	5.68	127.90	120.28
1	W	221	VAL	CA-C-O	5.68	127.18	121.27
1	Z	98	GLU	CA-C-O	-5.68	115.42	120.19
1	b	139	ASN	CA-C-O	-5.68	114.53	120.55
1	e	146	SER	N-CA-C	5.68	117.66	109.48
1	g	5	ASN	CA-C-O	5.68	126.40	119.64
1	L	133	TRP	CB-CG-CD1	5.68	135.42	126.90
1	B	226	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	P	206	GLY	CA-C-N	5.68	126.17	120.04
1	P	206	GLY	C-N-CA	5.68	126.17	120.04
1	U	53	ASN	N-CA-C	5.68	117.47	111.28
1	c	68	MET	CA-C-O	5.68	126.44	120.42
1	6	220	GLY	O-C-N	-5.68	116.26	122.68
1	Q	10	MET	CA-C-O	5.68	126.44	120.42
1	W	191	VAL	N-CA-C	-5.68	104.99	110.72
1	5	136	LEU	CA-C-N	5.68	126.24	119.94
1	5	136	LEU	C-N-CA	5.68	126.24	119.94
1	f	187	GLU	CB-CA-C	-5.68	101.93	110.90
1	F	93	PRO	CA-C-O	-5.67	114.75	121.67
1	I	146	SER	CA-C-O	-5.67	113.64	119.49
1	J	75	GLU	CB-CG-CD	-5.67	102.95	112.60
1	O	215	MET	CA-C-O	5.67	126.48	119.79
1	R	167	ARG	O-C-N	-5.67	115.68	122.15
1	S	80	TRP	CB-CG-CD2	-5.67	118.86	126.80
1	Z	205	LEU	N-CA-C	5.67	117.15	110.97
1	A	153	ILE	N-CA-C	5.67	118.74	109.78
1	B	9	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	D	13	GLN	CG-CD-OE1	5.67	132.14	120.80
1	T	223	GLY	O-C-N	-5.67	116.10	121.77
1	Y	98	GLU	N-CA-C	5.67	116.84	109.64
1	Z	79	GLU	O-C-N	-5.67	116.11	122.12
1	a	194	ALA	CA-C-O	5.67	127.56	121.55
1	6	124	ILE	CA-CB-CG2	-5.67	100.86	110.50
1	l	77	ALA	N-CA-CB	5.67	118.46	110.12
1	A	100	ARG	CA-C-N	5.67	126.40	119.99
1	A	100	ARG	C-N-CA	5.67	126.40	119.99
1	L	76	GLU	CA-C-N	5.67	128.34	120.29
1	L	76	GLU	C-N-CA	5.67	128.34	120.29
1	L	139	ASN	CA-C-O	5.67	126.34	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	83	LEU	CA-C-N	5.67	129.09	122.85
1	R	83	LEU	C-N-CA	5.67	129.09	122.85
1	5	221	VAL	O-C-N	-5.67	116.37	121.87
1	b	226	HIS	N-CA-C	5.67	118.19	111.33
1	D	166	ASP	CA-C-N	5.67	128.34	120.29
1	D	166	ASP	C-N-CA	5.67	128.34	120.29
1	M	219	GLN	CB-CA-C	-5.67	101.84	111.02
1	k	99	PRO	CA-C-O	-5.67	115.32	121.27
1	l	2	ILE	CA-CB-CG1	5.67	120.03	110.40
1	m	63	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	7	62	HIS	CG-ND1-CE1	-5.67	99.66	109.30
1	h	220	GLY	O-C-N	-5.67	116.20	122.55
1	J	120	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	K	32	PHE	CA-CB-CG	-5.67	108.13	113.80
1	M	50	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	i	228	ALA	CA-C-O	5.67	126.56	120.55
1	l	184	TRP	CG-CD2-CE3	-5.66	128.24	133.90
1	f	80	TRP	CB-CG-CD2	-5.66	118.87	126.80
1	J	116	GLY	O-C-N	-5.66	116.75	122.19
1	W	103	ASP	N-CA-C	-5.66	105.11	111.28
1	F	178	SER	O-C-N	-5.66	115.74	122.65
1	G	20	LEU	CA-C-N	5.66	127.86	120.28
1	G	20	LEU	C-N-CA	5.66	127.86	120.28
1	G	50	GLN	N-CA-CB	-5.66	101.80	110.01
1	N	118	MET	O-C-N	-5.66	114.87	122.23
1	i	168	PHE	CA-CB-CG	-5.66	108.14	113.80
1	B	117	TRP	CE2-CD2-CE3	5.66	124.46	118.80
1	M	151	LEU	N-CA-C	5.66	117.45	111.28
1	N	202	LEU	CA-C-O	5.66	126.54	120.20
1	T	89	GLY	CA-C-N	5.66	125.98	119.93
1	T	89	GLY	C-N-CA	5.66	125.98	119.93
1	Y	140	LYS	O-C-N	-5.66	116.15	122.03
1	c	47	ALA	N-CA-C	5.66	118.65	110.28
1	d	84	HIS	O-C-N	-5.66	114.67	121.12
1	D	162	ARG	CA-C-N	5.66	128.32	120.29
1	D	162	ARG	C-N-CA	5.66	128.32	120.29
1	5	176	GLN	CB-CA-C	5.66	119.06	111.82
1	j	183	ASN	CA-C-O	5.66	126.42	120.42
1	B	48	THR	CA-C-N	5.65	126.90	119.84
1	B	48	THR	C-N-CA	5.65	126.90	119.84
1	O	190	LEU	O-C-N	-5.65	116.21	122.09
1	i	162	ARG	O-C-N	-5.65	116.21	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	99	PRO	N-CA-CB	5.65	109.19	103.25
1	C	92	GLU	N-CA-C	5.65	115.40	108.11
1	H	82	ARG	CG-CD-NE	-5.65	99.57	112.00
1	S	2	ILE	CA-C-N	5.65	129.65	121.18
1	S	2	ILE	C-N-CA	5.65	129.65	121.18
1	M	19	THR	CA-CB-OG1	5.65	118.07	109.60
1	O	201	ILE	N-CA-C	5.65	115.84	110.42
1	S	218	CYS	N-CA-C	5.65	119.43	111.52
1	m	77	ALA	CA-C-O	5.65	126.54	120.55
1	h	41	SER	N-CA-C	5.65	118.16	111.33
1	h	139	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	L	52	LEU	CB-CA-C	-5.65	102.02	110.88
1	Z	115	ILE	O-C-N	-5.65	116.01	121.83
1	b	143	ARG	CA-C-O	-5.65	114.89	120.82
1	g	128	GLU	CA-C-N	5.65	127.88	120.60
1	g	128	GLU	C-N-CA	5.65	127.88	120.60
1	R	162	ARG	N-CA-CB	-5.64	101.59	110.06
1	W	28	GLU	N-CA-C	5.64	118.63	111.69
1	D	13	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	P	152	ASP	N-CA-C	5.64	117.51	111.36
1	Q	73	ILE	CA-C-N	5.64	127.84	120.28
1	Q	73	ILE	C-N-CA	5.64	127.84	120.28
1	j	84	HIS	CA-CB-CG	-5.64	108.16	113.80
1	g	84	HIS	O-C-N	-5.64	115.15	120.85
1	i	83	LEU	CA-C-O	-5.64	114.57	120.55
1	e	90	PRO	CA-N-CD	-5.64	104.10	112.00
1	D	54	THR	CA-C-O	5.64	126.72	120.63
1	P	66	MET	CG-SD-CE	-5.64	88.49	100.90
1	P	188	THR	OG1-CB-CG2	-5.64	98.02	109.30
1	T	120	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	I	56	LEU	N-CA-C	5.63	119.33	112.23
1	P	116	GLY	N-CA-C	5.63	119.49	112.73
1	Z	72	THR	O-C-N	-5.63	115.73	122.15
1	b	143	ARG	CA-C-N	5.63	129.62	120.60
1	b	143	ARG	C-N-CA	5.63	129.62	120.60
1	d	178	SER	N-CA-CB	5.63	118.42	110.36
1	f	24	VAL	N-CA-C	5.63	116.37	110.62
1	h	133	TRP	CE2-CD2-CE3	5.63	124.43	118.80
1	B	225	GLY	CA-C-N	5.63	131.63	123.13
1	B	225	GLY	C-N-CA	5.63	131.63	123.13
1	S	221	VAL	N-CA-C	5.63	117.29	109.80
1	Y	42	ALA	CA-C-O	-5.63	114.55	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	15	ILE	N-CA-C	5.63	117.74	109.63
1	A	181	VAL	CB-CA-C	-5.63	104.45	112.22
1	N	227	LYS	N-CA-CB	5.63	118.17	110.01
1	S	155	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	e	48	THR	CA-C-N	5.63	125.24	119.56
1	e	48	THR	C-N-CA	5.63	125.24	119.56
1	E	89	GLY	O-C-N	-5.63	116.14	121.77
1	M	23	TRP	N-CA-CB	-5.63	101.91	110.07
1	U	201	ILE	CB-CA-C	-5.63	104.77	111.97
1	b	152	ASP	CA-CB-CG	-5.63	106.97	112.60
1	j	38	PRO	O-C-N	-5.63	115.81	122.17
1	7	30	LYS	O-C-N	-5.63	115.00	122.20
1	7	122	PRO	CA-C-N	5.63	125.58	119.78
1	7	122	PRO	C-N-CA	5.63	125.58	119.78
1	7	148	THR	OG1-CB-CG2	-5.63	98.05	109.30
1	L	89	GLY	CA-C-N	5.62	125.63	119.89
1	L	89	GLY	C-N-CA	5.62	125.63	119.89
1	7	50	GLN	N-CA-C	5.62	118.14	111.33
1	N	132	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	Y	97	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	a	178	SER	N-CA-C	-5.62	102.57	110.50
1	6	109	SER	CA-C-O	5.62	128.49	121.46
1	j	229	ARG	CA-C-N	5.62	130.76	122.94
1	j	229	ARG	C-N-CA	5.62	130.76	122.94
1	H	9	GLN	N-CA-CB	-5.62	101.71	110.98
1	I	150	ILE	CA-C-O	5.62	126.80	120.95
1	L	19	THR	O-C-N	-5.62	115.74	122.15
1	L	77	ALA	N-CA-C	-5.62	105.23	111.36
1	S	25	LYS	CA-C-N	5.62	128.40	120.42
1	S	25	LYS	C-N-CA	5.62	128.40	120.42
1	a	143	ARG	O-C-N	-5.62	115.64	122.22
1	c	124	ILE	N-CA-C	5.62	114.30	107.61
1	m	153	ILE	CA-C-O	5.62	127.06	120.71
1	G	34	PRO	N-CA-CB	5.62	109.10	103.48
1	M	87	HIS	CA-C-O	5.62	126.58	119.95
1	W	154	ARG	O-C-N	-5.62	117.36	123.26
1	b	159	GLU	CA-C-O	-5.62	114.18	120.25
1	G	58	THR	CA-CB-OG1	5.62	118.03	109.60
1	U	123	PRO	N-CA-CB	5.62	108.04	103.32
1	j	71	GLU	N-CA-C	5.62	120.64	111.37
1	C	154	ARG	O-C-N	-5.62	117.41	123.42
1	X	103	ASP	CA-C-N	5.62	128.40	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	103	ASP	C-N-CA	5.62	128.40	120.42
1	D	33	SER	CA-C-N	5.62	125.46	119.28
1	D	33	SER	C-N-CA	5.62	125.46	119.28
1	D	68	MET	N-CA-C	5.62	117.48	111.36
1	E	217	ALA	N-CA-C	5.62	118.13	110.55
1	K	195	ASN	CA-C-N	5.62	125.46	119.28
1	K	195	ASN	C-N-CA	5.62	125.46	119.28
1	U	162	ARG	N-CA-CB	-5.62	101.86	110.12
1	c	93	PRO	O-C-N	-5.62	116.86	122.98
1	7	12	HIS	ND1-CG-CD2	-5.62	100.48	106.10
1	d	149	SER	O-C-N	-5.62	116.64	123.27
1	e	13	GLN	CA-C-N	5.62	130.32	121.56
1	e	13	GLN	C-N-CA	5.62	130.32	121.56
1	F	182	LYS	N-CA-C	5.61	117.08	111.07
1	L	133	TRP	CG-CD2-CE3	-5.61	128.29	133.90
1	Y	148	THR	CA-C-O	5.61	126.19	120.24
1	7	97	ARG	CA-C-O	5.61	127.68	121.56
1	H	208	ALA	CA-C-O	5.61	126.29	119.11
1	K	120	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	L	82	ARG	CA-C-O	5.61	126.37	120.42
1	P	129	ILE	N-CA-CB	5.61	117.11	110.55
1	j	18	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	l	21	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	X	19	THR	CA-C-N	5.61	128.25	120.29
1	X	19	THR	C-N-CA	5.61	128.25	120.29
1	j	160	PRO	CA-C-O	-5.61	115.23	121.23
1	A	90	PRO	CA-C-O	-5.61	115.21	121.32
1	C	80	TRP	N-CA-C	5.61	117.39	111.28
1	D	26	VAL	N-CA-C	5.61	115.80	110.53
1	D	205	LEU	N-CA-C	5.61	117.07	111.07
1	M	37	ILE	CA-C-N	5.61	125.13	119.19
1	M	37	ILE	C-N-CA	5.61	125.13	119.19
1	O	43	LEU	N-CA-CB	-5.61	101.08	110.39
1	R	41	SER	O-C-N	-5.61	114.92	122.43
1	W	13	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	Y	193	ASN	O-C-N	-5.61	115.33	122.34
1	l	190	LEU	CA-C-N	5.61	128.14	120.46
1	l	190	LEU	C-N-CA	5.61	128.14	120.46
1	F	145	TYR	CA-CB-CG	-5.61	103.81	113.90
1	g	191	VAL	N-CA-C	-5.61	107.32	113.43
1	N	105	ALA	CA-C-N	5.60	130.25	122.29
1	N	105	ALA	C-N-CA	5.60	130.25	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	228	ALA	O-C-N	-5.60	116.18	122.12
1	d	13	GLN	CA-C-N	5.60	128.80	120.90
1	d	13	GLN	C-N-CA	5.60	128.80	120.90
1	H	48	THR	CA-C-O	-5.60	114.85	120.96
1	K	40	PHE	CA-CB-CG	-5.60	108.20	113.80
1	M	208	ALA	N-CA-C	5.60	117.06	111.07
1	Q	95	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	V	14	ALA	CA-C-O	-5.60	115.61	121.55
1	X	10	MET	CG-SD-CE	-5.60	88.58	100.90
1	c	13	GLN	N-CA-C	-5.60	100.19	108.99
1	j	189	LEU	CA-C-N	5.60	128.04	120.65
1	j	189	LEU	C-N-CA	5.60	128.04	120.65
1	f	98	GLU	CA-C-N	5.60	126.84	119.84
1	f	98	GLU	C-N-CA	5.60	126.84	119.84
1	h	14	ALA	N-CA-CB	5.60	118.24	110.17
1	h	161	PHE	CB-CG-CD1	-5.60	111.18	120.70
1	D	23	TRP	CD2-CE2-CZ2	-5.60	116.80	122.40
1	D	200	THR	N-CA-CB	5.60	118.46	110.06
1	H	174	ALA	CA-C-N	5.60	130.30	121.56
1	H	174	ALA	C-N-CA	5.60	130.30	121.56
1	G	86	VAL	CA-C-O	5.60	126.56	120.57
1	H	174	ALA	N-CA-CB	-5.60	101.87	110.16
1	S	19	THR	CA-C-O	5.60	126.40	119.79
1	S	226	HIS	CA-C-O	5.60	125.21	119.05
1	W	104	ILE	CA-C-N	5.60	130.94	121.14
1	W	104	ILE	C-N-CA	5.60	130.94	121.14
1	W	186	THR	CA-CB-OG1	5.60	118.00	109.60
1	l	162	ARG	CA-C-O	5.60	126.68	120.63
1	H	184	TRP	CE2-CD2-CE3	5.60	124.40	118.80
1	R	97	ARG	CB-CA-C	-5.60	100.08	109.65
1	W	77	ALA	CA-C-O	5.60	126.41	119.97
1	a	151	LEU	N-CA-CB	-5.60	102.30	110.53
1	j	115	ILE	O-C-N	-5.60	116.06	121.83
1	f	205	LEU	N-CA-C	-5.60	106.58	113.41
1	E	130	TYR	CA-C-N	5.60	127.78	120.28
1	E	130	TYR	C-N-CA	5.60	127.78	120.28
1	F	108	THR	CB-CA-C	-5.60	102.01	111.02
1	L	118	MET	CA-C-O	5.60	126.26	119.38
1	U	132	ARG	CA-C-O	-5.60	114.91	120.90
1	U	113	GLU	N-CA-C	5.59	117.46	111.36
1	e	103	ASP	CA-C-N	5.59	127.61	120.56
1	e	103	ASP	C-N-CA	5.59	127.61	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	211	LEU	N-CA-C	5.59	117.38	111.28
1	F	23	TRP	CB-CG-CD2	-5.59	118.97	126.80
1	F	144	MET	N-CA-C	5.59	117.05	111.07
1	P	159	GLU	CA-C-N	5.59	125.54	119.78
1	P	159	GLU	C-N-CA	5.59	125.54	119.78
1	Y	50	GLN	CA-C-N	5.59	127.71	120.44
1	Y	50	GLN	C-N-CA	5.59	127.71	120.44
1	a	37	ILE	N-CA-C	5.59	120.96	108.88
1	j	107	THR	O-C-N	-5.59	114.06	122.28
1	B	209	ALA	N-CA-C	5.59	122.70	110.80
1	P	23	TRP	CA-C-N	5.59	128.36	120.42
1	P	23	TRP	C-N-CA	5.59	128.36	120.42
1	c	167	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	l	14	ALA	N-CA-C	5.59	117.95	110.35
1	f	78	ALA	CA-C-N	5.59	128.09	120.54
1	f	78	ALA	C-N-CA	5.59	128.09	120.54
1	A	79	GLU	N-CA-C	5.59	118.09	111.33
1	C	162	ARG	N-CA-C	5.59	117.37	111.28
1	J	121	ASN	CB-CG-ND2	5.59	124.78	116.40
1	M	175	GLU	CA-C-N	5.59	131.31	122.60
1	M	175	GLU	C-N-CA	5.59	131.31	122.60
1	M	180	GLU	CA-C-N	5.59	128.35	120.42
1	M	180	GLU	C-N-CA	5.59	128.35	120.42
1	Q	212	GLU	N-CA-C	5.59	118.09	111.33
1	Z	13	GLN	CG-CD-NE2	5.59	124.78	116.40
1	g	88	ALA	N-CA-CB	-5.59	101.80	110.29
1	V	98	GLU	O-C-N	-5.58	115.16	121.36
1	b	176	GLN	N-CA-CB	5.58	120.20	111.71
1	6	212	GLU	CA-C-O	5.58	126.23	119.31
1	D	65	ALA	CA-C-N	5.58	128.22	120.29
1	D	65	ALA	C-N-CA	5.58	128.22	120.29
1	L	18	ARG	O-C-N	-5.58	116.32	122.07
1	M	71	GLU	O-C-N	-5.58	114.85	122.33
1	M	220	GLY	O-C-N	-5.58	115.44	122.70
1	G	168	PHE	O-C-N	-5.58	116.20	122.12
1	K	6	LEU	CA-C-N	5.58	128.22	120.29
1	K	6	LEU	C-N-CA	5.58	128.22	120.29
1	Q	162	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	R	97	ARG	N-CA-C	5.58	118.54	110.28
1	V	161	PHE	CA-C-N	5.58	128.03	120.38
1	V	161	PHE	C-N-CA	5.58	128.03	120.38
1	b	177	ALA	CB-CA-C	5.58	118.82	109.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	c	196	PRO	N-CA-CB	5.58	109.11	103.25
1	f	28	GLU	CA-C-O	5.58	126.33	120.42
1	A	184	TRP	CG-CD2-CE3	-5.58	128.32	133.90
1	A	200	THR	CA-C-N	5.58	128.34	120.42
1	A	200	THR	C-N-CA	5.58	128.34	120.42
1	H	25	LYS	O-C-N	-5.58	115.41	122.27
1	I	77	ALA	CA-C-O	5.58	126.39	119.97
1	O	162	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	X	192	GLN	CA-C-O	-5.58	114.51	120.42
1	k	180	GLU	N-CA-CB	-5.58	101.91	110.16
1	J	2	ILE	O-C-N	-5.58	117.02	122.93
1	L	87	HIS	CA-C-N	5.58	130.41	122.72
1	L	87	HIS	C-N-CA	5.58	130.41	122.72
1	Q	62	HIS	CA-CB-CG	-5.58	108.22	113.80
1	U	206	GLY	N-CA-C	5.58	123.71	112.34
1	N	23	TRP	CD2-CE3-CZ3	-5.57	111.36	118.60
1	R	7	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	V	208	ALA	CA-C-N	5.57	129.01	120.82
1	V	208	ALA	C-N-CA	5.57	129.01	120.82
1	Y	25	LYS	CA-C-O	5.57	126.33	120.42
1	b	29	GLU	N-CA-C	5.57	118.55	111.69
1	j	166	ASP	O-C-N	-5.57	116.07	122.09
1	k	160	PRO	N-CA-C	5.57	120.07	111.21
1	g	12	HIS	CA-C-N	5.57	131.01	122.93
1	g	12	HIS	C-N-CA	5.57	131.01	122.93
1	A	155	GLN	CA-C-O	-5.57	115.49	121.56
1	N	130	TYR	CA-CB-CG	5.57	123.93	113.90
1	Z	7	GLN	N-CA-C	-5.57	106.25	113.16
1	i	195	ASN	CA-C-O	-5.57	114.62	120.02
1	j	3	VAL	CB-CA-C	5.57	119.92	110.95
1	m	64	ALA	CA-C-N	5.57	128.20	120.29
1	m	64	ALA	C-N-CA	5.57	128.20	120.29
1	7	110	THR	N-CA-CB	5.57	119.09	110.46
1	D	145	TYR	N-CA-C	-5.57	106.69	112.93
1	K	217	ALA	N-CA-C	5.57	117.92	110.35
1	l	227	LYS	CA-C-N	5.57	128.78	120.31
1	l	227	LYS	C-N-CA	5.57	128.78	120.31
1	D	219	GLN	N-CA-C	-5.57	106.62	113.41
1	j	172	LEU	CB-CA-C	-5.57	101.90	110.81
1	e	70	LYS	N-CA-C	5.57	117.03	111.07
1	C	84	HIS	CG-CD2-NE2	5.57	112.77	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	54	THR	CA-CB-CG2	5.57	119.96	110.50
1	Q	207	PRO	CA-C-O	-5.57	111.89	118.90
1	T	124	ILE	CA-C-N	-5.57	112.88	119.84
1	T	124	ILE	C-N-CA	-5.57	112.88	119.84
1	Y	84	HIS	CA-C-O	-5.57	114.39	119.62
1	5	133	TRP	CE2-CD2-CE3	5.57	124.36	118.80
1	L	185	MET	CA-C-N	5.56	127.74	120.28
1	L	185	MET	C-N-CA	5.56	127.74	120.28
1	N	81	ASP	CA-C-N	5.56	127.67	120.44
1	N	81	ASP	C-N-CA	5.56	127.67	120.44
1	a	87	HIS	ND1-CE1-NE2	5.56	113.96	108.40
1	D	85	PRO	N-CA-CB	5.56	107.99	103.32
1	M	121	ASN	CA-C-O	5.56	123.93	119.59
1	O	171	THR	N-CA-CB	5.56	118.23	109.94
1	Q	42	ALA	O-C-N	-5.56	115.81	122.15
1	Q	228	ALA	N-CA-CB	5.56	118.22	110.04
1	T	167	ARG	NE-CZ-NH2	-5.56	114.19	119.20
1	Y	186	THR	CA-C-O	-5.56	114.97	120.70
1	j	158	LYS	O-C-N	-5.56	116.46	122.19
1	k	5	ASN	CA-C-N	5.56	128.05	120.54
1	k	5	ASN	C-N-CA	5.56	128.05	120.54
1	l	100	ARG	NE-CZ-NH2	-5.56	114.19	119.20
1	h	167	ARG	CD-NE-CZ	-5.56	116.61	124.40
1	D	87	HIS	CA-C-N	5.56	128.76	120.31
1	D	87	HIS	C-N-CA	5.56	128.76	120.31
1	Q	204	ALA	O-C-N	-5.56	115.71	122.22
1	A	58	THR	N-CA-CB	5.56	118.70	110.53
1	I	49	PRO	CA-C-N	5.56	128.18	120.29
1	I	49	PRO	C-N-CA	5.56	128.18	120.29
1	P	30	LYS	O-C-N	-5.56	115.20	122.20
1	a	33	SER	CA-C-N	5.56	125.92	119.47
1	a	33	SER	C-N-CA	5.56	125.92	119.47
1	j	39	MET	O-C-N	-5.56	116.23	122.12
1	7	92	GLU	O-C-N	-5.56	117.96	121.85
1	J	104	ILE	CA-C-O	5.56	126.83	121.05
1	7	48	THR	CA-C-N	5.56	125.22	119.05
1	7	48	THR	C-N-CA	5.56	125.22	119.05
1	G	142	VAL	CA-CB-CG1	5.56	119.84	110.40
1	B	41	SER	O-C-N	-5.55	115.44	122.27
1	E	66	MET	N-CA-C	5.55	117.33	111.28
1	I	184	TRP	CB-CG-CD1	5.55	135.23	126.90
1	L	18	ARG	CA-C-N	5.55	128.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	18	ARG	C-N-CA	5.55	128.18	120.29
1	N	47	ALA	N-CA-C	5.55	118.53	110.42
1	T	135	ILE	O-C-N	-5.55	116.26	121.87
1	X	39	MET	O-C-N	-5.55	116.23	122.12
1	f	74	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	h	149	SER	CA-C-N	5.55	129.73	120.62
1	h	149	SER	C-N-CA	5.55	129.73	120.62
1	D	43	LEU	N-CA-C	5.55	119.31	112.54
1	K	198	CYS	N-CA-C	5.55	118.05	111.33
1	j	64	ALA	CA-C-O	-5.55	114.99	120.82
1	C	229	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	J	213	GLU	N-CA-C	5.55	117.41	111.36
1	O	186	THR	N-CA-CB	5.55	118.01	109.91
1	Q	167	ARG	CB-CG-CD	5.55	124.07	111.30
1	7	15	ILE	CA-C-O	5.55	126.51	120.57
1	E	151	LEU	N-CA-C	5.55	118.09	111.71
1	T	15	ILE	O-C-N	-5.55	116.56	122.61
1	k	157	PRO	CB-CA-C	5.55	119.72	111.62
1	7	179	GLN	CA-C-N	5.55	127.72	120.28
1	7	179	GLN	C-N-CA	5.55	127.72	120.28
1	D	172	LEU	CA-C-O	5.55	126.34	119.79
1	d	5	ASN	CA-CB-CG	-5.55	107.05	112.60
1	c	145	TYR	CA-C-N	-5.55	112.61	120.49
1	c	145	TYR	C-N-CA	-5.55	112.61	120.49
1	7	95	GLN	CA-C-O	-5.55	114.54	120.92
1	d	199	LYS	N-CA-C	-5.55	105.77	112.54
1	f	155	GLN	CG-CD-NE2	-5.55	108.08	116.40
1	Q	121	ASN	O-C-N	-5.54	114.28	121.10
1	I	207	PRO	CB-CA-C	5.54	118.69	110.88
1	W	84	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	Y	103	ASP	N-CA-C	-5.54	105.78	112.54
1	i	182	LYS	CA-C-N	5.54	128.16	120.29
1	i	182	LYS	C-N-CA	5.54	128.16	120.29
1	j	54	THR	N-CA-C	-5.54	105.14	111.07
1	j	143	ARG	N-CA-C	5.54	118.39	111.24
1	g	32	PHE	CB-CG-CD2	5.54	130.12	120.70
1	A	82	ARG	CA-C-O	5.54	126.83	120.90
1	T	192	GLN	O-C-N	-5.54	116.25	122.12
1	Y	95	GLN	O-C-N	-5.54	116.85	123.06
1	5	82	ARG	CG-CD-NE	-5.54	99.81	112.00
1	a	91	ILE	O-C-N	-5.54	117.12	122.16
1	7	214	MET	CB-CA-C	-5.54	101.94	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	129	ILE	O-C-N	-5.54	116.14	121.90
1	F	152	ASP	N-CA-CB	-5.54	102.39	110.53
1	V	67	GLN	O-C-N	-5.54	115.83	122.15
1	X	11	VAL	N-CA-C	5.54	116.65	108.45
1	5	172	LEU	N-CA-C	-5.54	105.39	111.82
1	H	171	THR	CA-C-N	5.54	127.70	120.28
1	H	171	THR	C-N-CA	5.54	127.70	120.28
1	N	57	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	N	206	GLY	CA-C-O	-5.54	113.60	121.52
1	5	61	GLY	N-CA-C	-5.54	104.12	112.60
1	f	18	ARG	NE-CZ-NH2	-5.54	114.22	119.20
1	h	145	TYR	CA-C-N	5.54	129.10	120.68
1	h	145	TYR	C-N-CA	5.54	129.10	120.68
1	F	190	LEU	O-C-N	-5.54	116.37	122.07
1	G	93	PRO	N-CA-C	5.54	121.12	113.65
1	P	11	VAL	O-C-N	-5.54	116.91	123.00
1	5	72	THR	N-CA-CB	5.54	118.35	110.16
1	B	27	VAL	N-CA-CB	5.54	120.79	110.77
1	Y	227	LYS	O-C-N	-5.54	116.33	122.86
1	f	126	VAL	O-C-N	-5.54	116.28	121.87
1	h	87	HIS	CB-CG-CD2	-5.54	124.00	131.20
1	C	67	GLN	N-CA-C	5.53	116.99	111.07
1	F	133	TRP	CA-C-N	5.53	127.64	120.56
1	F	133	TRP	C-N-CA	5.53	127.64	120.56
1	F	206	GLY	CA-C-N	5.53	126.76	119.84
1	F	206	GLY	C-N-CA	5.53	126.76	119.84
1	M	28	GLU	CB-CA-C	5.53	119.57	110.88
1	O	172	LEU	CA-C-N	5.53	127.63	120.44
1	O	172	LEU	C-N-CA	5.53	127.63	120.44
1	m	50	GLN	N-CA-C	5.53	117.75	111.11
1	7	151	LEU	O-C-N	-5.53	115.70	122.34
1	I	190	LEU	CA-C-N	5.53	127.61	120.70
1	I	190	LEU	C-N-CA	5.53	127.61	120.70
1	P	202	LEU	N-CA-C	-5.53	105.79	112.54
1	Z	65	ALA	N-CA-CB	-5.53	101.99	110.12
1	C	17	PRO	N-CA-CB	5.53	109.56	103.26
1	I	211	LEU	N-CA-C	-5.53	105.66	112.90
1	6	129	ILE	O-C-N	5.53	127.33	121.91
1	k	117	TRP	CA-C-N	5.53	130.82	121.14
1	k	117	TRP	C-N-CA	5.53	130.82	121.14
1	7	192	GLN	CA-C-O	-5.53	114.69	120.55
1	B	165	VAL	CA-C-O	5.53	126.49	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	140	LYS	N-CA-C	5.53	117.31	111.28
1	m	227	LYS	CA-C-N	5.53	127.96	120.44
1	m	227	LYS	C-N-CA	5.53	127.96	120.44
1	B	39	MET	CA-C-N	5.53	128.00	120.54
1	B	39	MET	C-N-CA	5.53	128.00	120.54
1	C	44	SER	N-CA-C	5.53	119.64	113.01
1	C	72	THR	CB-CA-C	-5.53	101.61	110.79
1	G	64	ALA	CA-C-O	5.53	126.33	119.97
1	K	154	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	O	35	GLU	O-C-N	-5.53	115.02	122.43
1	6	15	ILE	N-CA-CB	5.53	117.54	110.13
1	i	108	THR	CB-CA-C	-5.53	101.13	110.64
1	k	226	HIS	CG-CD2-NE2	5.53	112.73	107.20
1	F	84	HIS	ND1-CE1-NE2	5.53	113.92	108.40
1	F	163	ASP	CA-C-N	5.53	127.95	120.44
1	F	163	ASP	C-N-CA	5.53	127.95	120.44
1	P	189	LEU	CA-C-N	5.53	127.95	120.44
1	P	189	LEU	C-N-CA	5.53	127.95	120.44
1	R	211	LEU	CA-C-N	5.53	128.14	120.29
1	R	211	LEU	C-N-CA	5.53	128.14	120.29
1	K	125	PRO	N-CA-CB	-5.52	98.70	102.73
1	L	93	PRO	N-CA-CB	-5.52	97.45	103.25
1	Q	120	HIS	CA-CB-CG	5.52	119.32	113.80
1	i	179	GLN	N-CA-C	5.52	117.30	111.28
1	B	106	GLY	CA-C-N	5.52	127.62	120.44
1	B	106	GLY	C-N-CA	5.52	127.62	120.44
1	F	6	LEU	CA-C-O	5.52	128.27	122.03
1	I	149	SER	N-CA-C	5.52	118.45	110.28
1	J	48	THR	CA-C-O	-5.52	113.32	121.27
1	R	221	VAL	CB-CA-C	-5.52	104.78	112.02
1	Z	208	ALA	N-CA-CB	-5.52	102.50	110.56
1	m	161	PHE	O-C-N	5.52	128.44	122.15
1	Q	120	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	c	204	ALA	O-C-N	-5.52	116.27	122.12
1	m	12	HIS	CA-C-O	5.52	127.98	121.36
1	L	102	SER	N-CA-C	-5.52	106.50	113.18
1	P	4	GLN	CA-C-O	5.52	126.94	121.20
1	T	200	THR	CB-CA-C	-5.52	102.22	110.88
1	W	91	ILE	CA-C-O	5.52	126.26	119.58
1	c	126	VAL	N-CA-C	5.52	116.25	110.62
1	i	62	HIS	CB-CA-C	-5.52	104.12	111.63
1	m	3	VAL	CA-CB-CG2	5.52	119.78	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	97	ARG	N-CA-C	5.52	118.02	110.24
1	k	68	MET	O-C-N	-5.52	115.06	122.23
1	h	80	TRP	CA-C-N	5.52	127.61	120.44
1	h	80	TRP	C-N-CA	5.52	127.61	120.44
1	K	20	LEU	CA-C-O	-5.51	114.67	120.63
1	O	121	ASN	OD1-CG-ND2	5.51	128.11	122.60
1	R	62	HIS	CA-C-N	5.51	130.05	120.68
1	R	62	HIS	C-N-CA	5.51	130.05	120.68
1	S	192	GLN	CA-C-O	-5.51	112.62	119.18
1	U	210	THR	N-CA-CB	5.51	118.16	109.83
1	U	226	HIS	CA-CB-CG	5.51	119.31	113.80
1	c	4	GLN	CB-CG-CD	-5.51	103.23	112.60
1	f	48	THR	CA-C-O	-5.51	115.18	120.97
1	E	216	THR	N-CA-C	-5.51	106.56	113.28
1	N	163	ASP	N-CA-C	5.51	117.29	111.28
1	T	150	ILE	O-C-N	-5.51	116.30	121.87
1	i	223	GLY	CA-C-N	5.51	125.52	119.90
1	i	223	GLY	C-N-CA	5.51	125.52	119.90
1	e	159	GLU	CA-C-N	5.51	126.73	119.84
1	e	159	GLU	C-N-CA	5.51	126.73	119.84
1	G	190	LEU	N-CA-CB	-5.51	102.02	110.01
1	L	81	ASP	CA-C-O	-5.51	115.04	120.82
1	T	87	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	5	170	LYS	CB-CA-C	-5.51	100.09	110.67
1	e	210	THR	N-CA-C	5.51	118.22	110.23
1	B	190	LEU	CA-C-N	5.51	128.01	120.46
1	B	190	LEU	C-N-CA	5.51	128.01	120.46
1	E	120	HIS	O-C-N	-5.51	116.51	122.79
1	F	128	GLU	N-CA-C	5.51	117.72	111.11
1	R	124	ILE	N-CA-C	5.51	113.49	107.60
1	X	17	PRO	N-CA-CB	5.51	108.99	103.48
1	Y	170	LYS	CA-C-N	5.51	127.66	120.28
1	Y	170	LYS	C-N-CA	5.51	127.66	120.28
1	F	134	ILE	CA-C-N	5.51	128.00	120.46
1	F	134	ILE	C-N-CA	5.51	128.00	120.46
1	I	102	SER	O-C-N	-5.51	116.28	122.12
1	L	85	PRO	N-CA-C	-5.51	102.62	111.38
1	V	7	GLN	N-CA-C	5.51	120.06	113.23
1	Z	174	ALA	CA-C-O	5.51	126.16	119.11
1	j	220	GLY	CA-C-O	5.51	125.85	119.13
1	d	214	MET	CA-C-N	5.51	128.68	120.31
1	d	214	MET	C-N-CA	5.51	128.68	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	215	MET	CA-C-N	5.50	132.34	122.38
1	C	215	MET	C-N-CA	5.50	132.34	122.38
1	H	84	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	I	54	THR	N-CA-C	5.50	117.28	111.28
1	J	65	ALA	N-CA-C	5.50	117.36	111.36
1	T	4	GLN	CA-C-O	-5.50	114.85	121.40
1	V	84	HIS	CA-C-O	5.50	127.70	120.16
1	V	158	LYS	CA-C-O	5.50	127.42	120.65
1	W	184	TRP	CA-C-N	5.50	128.11	120.29
1	W	184	TRP	C-N-CA	5.50	128.11	120.29
1	B	66	MET	O-C-N	-5.50	115.78	122.22
1	H	86	VAL	O-C-N	-5.50	116.82	122.82
1	W	68	MET	CA-CB-CG	-5.50	103.09	114.10
1	Z	151	LEU	N-CA-CB	-5.50	102.03	110.01
1	c	26	VAL	N-CA-C	5.50	116.28	110.72
1	E	139	ASN	N-CA-C	5.50	117.28	111.28
1	M	23	TRP	O-C-N	-5.50	116.15	122.09
1	P	216	THR	CA-C-N	5.50	129.58	120.94
1	P	216	THR	C-N-CA	5.50	129.58	120.94
1	a	153	ILE	O-C-N	-5.50	117.06	122.67
1	d	76	GLU	N-CA-C	5.50	118.04	111.71
1	K	208	ALA	N-CA-CB	-5.50	102.35	110.49
1	U	86	VAL	N-CA-C	5.50	120.78	109.34
1	Z	26	VAL	CB-CA-C	-5.50	104.72	112.14
1	V	30	LYS	CA-C-N	5.50	128.10	120.29
1	V	30	LYS	C-N-CA	5.50	128.10	120.29
1	6	60	GLY	CA-C-O	5.50	125.84	119.13
1	5	100	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	a	15	ILE	CA-CB-CG1	5.50	119.74	110.40
1	c	54	THR	OG1-CB-CG2	-5.50	98.31	109.30
1	D	62	HIS	CA-C-O	5.49	128.21	121.84
1	P	161	PHE	CA-C-N	5.49	127.91	120.38
1	P	161	PHE	C-N-CA	5.49	127.91	120.38
1	Q	182	LYS	CB-CA-C	5.49	119.50	110.88
1	W	62	HIS	CB-CA-C	-5.49	103.71	111.95
1	A	100	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	E	188	THR	CA-C-N	5.49	128.09	120.29
1	E	188	THR	C-N-CA	5.49	128.09	120.29
1	J	26	VAL	N-CA-CB	-5.49	104.12	110.55
1	O	150	ILE	CA-CB-CG2	5.49	119.84	110.50
1	i	14	ALA	CA-C-N	5.49	127.98	120.35
1	i	14	ALA	C-N-CA	5.49	127.98	120.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	4	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	N	28	GLU	CA-C-O	-5.49	115.24	121.00
1	Y	229	ARG	NH1-CZ-NH2	-5.49	112.16	119.30
1	5	192	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	6	34	PRO	CB-CA-C	5.49	119.73	111.44
1	j	91	ILE	CB-CA-C	-5.49	102.97	110.77
1	l	112	GLN	N-CA-C	5.49	118.03	111.71
1	7	110	THR	O-C-N	-5.49	116.47	122.84
1	e	88	ALA	N-CA-C	-5.49	104.44	113.50
1	B	99	PRO	CA-C-N	5.49	131.38	121.06
1	B	99	PRO	C-N-CA	5.49	131.38	121.06
1	B	131	LYS	O-C-N	-5.49	116.30	122.12
1	B	163	ASP	N-CA-CB	-5.49	101.88	110.44
1	X	79	GLU	CA-CB-CG	5.49	125.08	114.10
1	D	46	GLY	N-CA-C	5.49	122.66	115.36
1	G	209	ALA	CA-C-O	5.49	127.36	121.55
1	M	47	ALA	N-CA-C	5.49	118.27	110.10
1	O	192	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	Q	166	ASP	CA-C-N	5.49	127.57	120.44
1	Q	166	ASP	C-N-CA	5.49	127.57	120.44
1	Y	129	ILE	CA-C-N	5.49	128.08	120.29
1	Y	129	ILE	C-N-CA	5.49	128.08	120.29
1	5	181	VAL	CA-C-N	5.49	127.90	120.44
1	5	181	VAL	C-N-CA	5.49	127.90	120.44
1	b	62	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	l	193	ASN	CA-C-N	5.49	130.95	120.97
1	l	193	ASN	C-N-CA	5.49	130.95	120.97
1	d	61	GLY	CA-C-O	-5.49	115.78	122.75
1	g	72	THR	N-CA-C	-5.49	105.22	111.14
1	i	82	ARG	CB-CA-C	-5.48	101.58	110.79
1	j	20	LEU	CA-C-O	-5.48	115.05	120.70
1	A	172	LEU	CA-C-N	5.48	127.62	120.28
1	A	172	LEU	C-N-CA	5.48	127.62	120.28
1	D	122	PRO	CA-C-N	5.48	125.46	120.03
1	D	122	PRO	C-N-CA	5.48	125.46	120.03
1	I	173	ARG	N-CA-CB	-5.48	100.84	109.78
1	A	10	MET	N-CA-C	5.48	118.23	110.50
1	E	204	ALA	N-CA-C	5.48	118.43	111.69
1	T	135	ILE	CA-CB-CG2	5.48	119.82	110.50
1	V	227	LYS	CA-C-N	5.48	127.56	120.44
1	V	227	LYS	C-N-CA	5.48	127.56	120.44
1	Y	175	GLU	CB-CA-C	5.48	119.43	109.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	161	PHE	CA-C-N	5.48	127.56	120.44
1	e	161	PHE	C-N-CA	5.48	127.56	120.44
1	H	187	GLU	N-CA-C	5.48	117.33	111.36
1	F	229	ARG	N-CA-CB	5.48	118.01	109.85
1	L	125	PRO	CA-C-N	5.48	128.20	120.42
1	L	125	PRO	C-N-CA	5.48	128.20	120.42
1	O	34	PRO	N-CA-C	5.48	121.75	113.81
1	W	102	SER	CA-C-N	5.48	127.62	120.28
1	W	102	SER	C-N-CA	5.48	127.62	120.28
1	M	174	ALA	N-CA-C	5.48	117.05	111.14
1	S	84	HIS	O-C-N	5.48	126.39	121.35
1	V	223	GLY	CA-C-O	-5.48	113.69	121.52
1	Y	177	ALA	N-CA-C	5.48	122.46	110.80
1	e	203	LYS	CB-CA-C	-5.48	100.16	110.67
1	g	128	GLU	N-CA-C	5.48	117.05	111.14
1	V	48	THR	N-CA-CB	5.47	117.33	109.78
1	C	74	ASN	CA-C-N	5.47	127.55	120.44
1	C	74	ASN	C-N-CA	5.47	127.55	120.44
1	I	174	ALA	CA-C-O	5.47	125.64	119.18
1	J	20	LEU	CA-C-N	5.47	127.88	120.38
1	J	20	LEU	C-N-CA	5.47	127.88	120.38
1	O	95	GLN	O-C-N	-5.47	116.81	122.94
1	Q	139	ASN	CA-CB-CG	-5.47	107.13	112.60
1	S	152	ASP	O-C-N	-5.47	116.12	122.09
1	V	219	GLN	N-CA-C	5.47	122.46	110.80
1	B	120	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	L	118	MET	CG-SD-CE	-5.47	88.86	100.90
1	R	9	GLN	CA-C-O	5.47	126.23	120.54
1	W	65	ALA	CB-CA-C	-5.47	100.17	110.67
1	7	148	THR	N-CA-C	5.47	118.51	110.30
1	I	143	ARG	O-C-N	-5.47	115.12	122.23
1	Q	132	ARG	CA-C-N	5.47	128.06	120.29
1	Q	132	ARG	C-N-CA	5.47	128.06	120.29
1	X	115	ILE	O-C-N	-5.47	116.35	121.87
1	b	94	GLY	O-C-N	-5.47	115.67	122.34
1	i	145	TYR	O-C-N	-5.47	115.12	122.23
1	i	205	LEU	O-C-N	5.47	127.70	122.07
1	k	22	ALA	N-CA-C	5.47	117.24	111.28
1	k	116	GLY	CA-C-N	5.47	128.05	120.29
1	k	116	GLY	C-N-CA	5.47	128.05	120.29
1	F	58	THR	CA-C-N	5.47	127.45	120.56
1	F	58	THR	C-N-CA	5.47	127.45	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	173	ARG	N-CA-C	5.47	120.39	111.37
1	O	136	LEU	O-C-N	-5.47	115.92	122.15
1	Z	70	LYS	O-C-N	-5.47	116.33	122.12
1	6	30	LYS	CA-C-N	5.47	127.60	120.28
1	6	30	LYS	C-N-CA	5.47	127.60	120.28
1	B	179	GLN	CB-CA-C	-5.46	101.72	110.79
1	B	213	GLU	CA-C-O	-5.46	112.53	119.31
1	E	170	LYS	N-CA-C	5.46	117.23	111.28
1	I	96	MET	CA-CB-CG	5.46	125.03	114.10
1	L	160	PRO	O-C-N	-5.46	116.08	122.86
1	Y	59	VAL	O-C-N	5.46	128.89	122.17
1	W	214	MET	CB-CA-C	-5.46	100.97	110.09
1	A	56	LEU	CA-C-O	5.46	126.56	120.82
1	F	118	MET	CB-CA-C	-5.46	101.72	110.79
1	I	201	ILE	O-C-N	-5.46	116.22	121.90
1	M	33	SER	CA-C-N	5.46	125.81	119.47
1	M	33	SER	C-N-CA	5.46	125.81	119.47
1	P	184	TRP	CG-CD2-CE3	-5.46	128.44	133.90
1	R	128	GLU	CA-C-N	5.46	127.55	120.56
1	R	128	GLU	C-N-CA	5.46	127.55	120.56
1	T	53	ASN	CA-C-N	5.46	127.87	120.44
1	T	53	ASN	C-N-CA	5.46	127.87	120.44
1	X	40	PHE	CA-CB-CG	5.46	119.26	113.80
1	i	223	GLY	CA-C-O	-5.46	113.71	121.52
1	U	217	ALA	N-CA-C	5.46	117.78	110.35
1	m	28	GLU	CA-CB-CG	-5.46	103.18	114.10
1	B	123	PRO	N-CD-CG	5.46	111.39	103.20
1	J	163	ASP	CA-CB-CG	-5.46	107.14	112.60
1	O	129	ILE	CA-C-O	5.46	126.64	120.85
1	T	120	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	V	171	THR	CA-CB-OG1	5.46	117.79	109.60
1	Z	73	ILE	N-CA-C	5.46	115.66	110.42
1	5	10	MET	CA-C-O	-5.46	114.72	121.11
1	7	216	THR	O-C-N	-5.46	115.17	122.49
1	e	14	ALA	CB-CA-C	5.46	117.30	109.71
1	C	83	LEU	CD1-CG-CD2	5.46	122.80	110.80
1	C	191	VAL	N-CA-C	5.46	116.11	110.82
1	N	71	GLU	O-C-N	5.46	127.90	122.12
1	Y	180	GLU	CA-C-N	5.46	129.28	120.55
1	Y	180	GLU	C-N-CA	5.46	129.28	120.55
1	6	7	GLN	CG-CD-OE1	5.46	131.71	120.80
1	F	181	VAL	CA-C-O	5.46	126.36	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	126	VAL	N-CA-C	-5.46	105.06	110.62
1	K	209	ALA	CA-C-N	5.46	129.50	120.94
1	K	209	ALA	C-N-CA	5.46	129.50	120.94
1	M	91	ILE	N-CA-C	5.46	120.69	109.34
1	N	58	THR	CA-CB-CG2	5.45	119.77	110.50
1	T	66	MET	N-CA-C	5.45	117.98	111.71
1	5	68	MET	N-CA-C	5.45	117.22	111.28
1	a	101	GLY	CA-C-O	5.45	126.29	120.40
1	a	226	HIS	CA-CB-CG	5.45	119.25	113.80
1	b	204	ALA	O-C-N	-5.45	115.93	122.15
1	i	56	LEU	N-CA-CB	-5.45	101.83	110.28
1	d	110	THR	CA-C-N	5.45	128.37	120.79
1	d	110	THR	C-N-CA	5.45	128.37	120.79
1	e	161	PHE	CA-CB-CG	-5.45	108.35	113.80
1	B	128	GLU	CA-C-O	5.45	126.29	120.24
1	E	66	MET	CA-C-O	5.45	126.33	120.55
1	P	173	ARG	CA-CB-CG	5.45	125.00	114.10
1	Q	126	VAL	N-CA-C	5.45	117.86	111.05
1	X	167	ARG	CA-C-N	5.45	127.53	120.44
1	X	167	ARG	C-N-CA	5.45	127.53	120.44
1	5	203	LYS	CA-C-N	5.45	127.85	120.44
1	5	203	LYS	C-N-CA	5.45	127.85	120.44
1	a	92	GLU	CB-CG-CD	-5.45	103.33	112.60
1	c	50	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	i	146	SER	N-CA-C	5.45	120.90	113.16
1	i	215	MET	N-CA-CB	-5.45	101.90	110.46
1	i	227	LYS	CA-C-N	5.45	127.58	120.28
1	i	227	LYS	C-N-CA	5.45	127.58	120.28
1	Q	170	LYS	CA-C-N	5.45	128.03	120.29
1	Q	170	LYS	C-N-CA	5.45	128.03	120.29
1	T	146	SER	CA-C-O	-5.45	112.69	120.16
1	b	110	THR	CA-C-N	5.45	127.58	120.28
1	b	110	THR	C-N-CA	5.45	127.58	120.28
1	B	57	ASN	CB-CG-ND2	5.45	124.57	116.40
1	R	62	HIS	ND1-CG-CD2	5.45	111.55	106.10
1	7	196	PRO	CA-C-N	5.45	127.58	120.28
1	7	196	PRO	C-N-CA	5.45	127.58	120.28
1	N	12	HIS	ND1-CE1-NE2	5.45	113.84	108.40
1	j	175	GLU	CB-CA-C	-5.45	101.36	110.56
1	d	44	SER	N-CA-CB	5.45	119.28	110.40
1	I	134	ILE	N-CA-C	5.44	115.64	110.42
1	K	127	GLY	CA-C-N	5.44	128.58	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	127	GLY	C-N-CA	5.44	128.58	120.31
1	i	26	VAL	O-C-N	-5.44	116.33	121.94
1	f	118	MET	N-CA-CB	5.44	119.27	110.40
1	V	144	MET	CG-SD-CE	-5.44	88.93	100.90
1	b	65	ALA	CA-C-N	5.44	128.02	120.29
1	b	65	ALA	C-N-CA	5.44	128.02	120.29
1	f	34	PRO	N-CA-CB	5.44	108.37	103.20
1	g	179	GLN	CA-C-O	5.44	126.25	120.10
1	G	72	THR	CA-CB-CG2	5.44	119.75	110.50
1	P	125	PRO	N-CA-CB	5.44	108.96	103.25
1	k	65	ALA	N-CA-C	5.44	117.97	111.71
1	d	100	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	J	97	ARG	CD-NE-CZ	-5.44	116.79	124.40
1	P	79	GLU	CB-CG-CD	-5.44	103.36	112.60
1	T	8	GLY	CA-C-N	5.44	131.16	121.75
1	T	8	GLY	C-N-CA	5.44	131.16	121.75
1	i	26	VAL	N-CA-CB	5.44	116.55	110.62
1	k	138	LEU	CA-C-O	-5.44	115.10	120.70
1	E	152	ASP	CA-C-N	5.44	128.63	120.69
1	E	152	ASP	C-N-CA	5.44	128.63	120.69
1	k	152	ASP	CA-C-N	5.44	129.86	121.71
1	k	152	ASP	C-N-CA	5.44	129.86	121.71
1	l	27	VAL	N-CA-C	5.44	116.21	110.72
1	C	62	HIS	O-C-N	-5.43	116.44	122.91
1	J	138	LEU	CA-C-N	5.43	128.11	120.28
1	J	138	LEU	C-N-CA	5.43	128.11	120.28
1	N	173	ARG	N-CA-C	5.43	118.12	111.82
1	Q	229	ARG	O-C-N	-5.43	115.97	122.65
1	c	185	MET	CA-C-O	5.43	126.50	120.63
1	N	160	PRO	N-CA-CB	5.43	106.39	101.83
1	m	62	HIS	O-C-N	-5.43	115.28	122.40
1	G	23	TRP	CA-C-O	5.43	126.22	119.97
1	m	168	PHE	O-C-N	-5.43	116.22	122.09
1	E	195	ASN	N-CA-CB	-5.43	102.16	110.03
1	J	128	GLU	N-CA-C	5.43	117.20	111.28
1	L	139	ASN	O-C-N	-5.43	114.97	122.46
1	P	24	VAL	N-CA-CB	-5.43	102.44	110.58
1	T	226	HIS	N-CA-C	5.43	118.10	109.96
1	D	178	SER	N-CA-CB	5.43	119.66	110.49
1	T	5	ASN	CA-C-O	-5.43	115.23	121.47
1	5	144	MET	N-CA-C	-5.43	106.16	112.89
1	i	143	ARG	CG-CD-NE	-5.43	100.06	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	135	ILE	CA-C-O	5.43	126.60	120.85
1	C	66	MET	CA-C-N	5.43	127.50	120.44
1	C	66	MET	C-N-CA	5.43	127.50	120.44
1	E	24	VAL	CA-C-O	5.43	126.69	121.05
1	L	71	GLU	N-CA-CB	5.43	117.88	110.01
1	N	10	MET	CA-C-O	-5.43	114.57	120.81
1	Q	161	PHE	CA-C-N	5.43	127.87	120.54
1	Q	161	PHE	C-N-CA	5.43	127.87	120.54
1	Y	84	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	b	103	ASP	CA-CB-CG	5.43	118.03	112.60
1	G	37	ILE	O-C-N	-5.42	114.92	121.10
1	K	154	ARG	CG-CD-NE	-5.42	100.07	112.00
1	N	146	SER	N-CA-C	5.42	121.80	109.81
1	5	79	GLU	CA-C-N	5.42	127.99	120.29
1	5	79	GLU	C-N-CA	5.42	127.99	120.29
1	7	212	GLU	N-CA-C	5.42	117.95	111.71
1	A	81	ASP	CA-CB-CG	-5.42	107.18	112.60
1	G	187	GLU	CB-CG-CD	-5.42	103.38	112.60
1	L	195	ASN	CB-CG-OD1	5.42	131.65	120.80
1	P	66	MET	CA-C-O	5.42	126.21	119.97
1	6	154	ARG	N-CA-C	5.42	117.93	108.76
1	e	229	ARG	NE-CZ-NH2	5.42	124.08	119.20
1	A	104	ILE	N-CA-CB	-5.42	104.21	110.55
1	N	227	LYS	CA-C-O	-5.42	115.13	120.82
1	U	87	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	6	87	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	6	166	ASP	CA-C-O	5.42	126.51	120.82
1	P	217	ALA	CA-C-O	5.42	127.47	121.56
1	Z	23	TRP	CA-C-O	5.42	126.51	120.82
1	a	51	ASP	O-C-N	-5.42	115.97	122.15
1	i	226	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	7	191	VAL	O-C-N	-5.42	116.60	121.91
1	d	196	PRO	N-CA-C	5.42	122.56	113.78
1	E	35	GLU	O-C-N	-5.42	115.17	122.43
1	Q	13	GLN	CG-CD-NE2	-5.42	108.28	116.40
1	D	181	VAL	O-C-N	-5.42	116.25	121.83
1	I	47	ALA	O-C-N	-5.42	116.62	123.01
1	P	64	ALA	CA-C-N	5.42	127.98	120.29
1	P	64	ALA	C-N-CA	5.42	127.98	120.29
1	A	30	LYS	CA-CB-CG	5.41	124.93	114.10
1	Y	201	ILE	CB-CA-C	-5.41	104.95	111.88
1	k	55	MET	N-CA-C	5.41	116.86	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	67	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	M	138	LEU	N-CA-C	5.41	117.26	111.36
1	5	20	LEU	N-CA-C	5.41	117.18	111.28
1	k	226	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	7	137	GLY	CA-C-N	5.41	127.97	120.29
1	7	137	GLY	C-N-CA	5.41	127.97	120.29
1	f	186	THR	O-C-N	-5.41	115.08	122.33
1	C	167	ARG	CA-C-N	5.41	127.80	120.44
1	C	167	ARG	C-N-CA	5.41	127.80	120.44
1	R	73	ILE	O-C-N	-5.41	116.26	121.83
1	b	195	ASN	CB-CA-C	5.41	117.98	109.27
1	j	21	ASN	CB-CG-ND2	5.41	124.51	116.40
1	7	1	PRO	N-CD-CG	-5.41	95.09	103.20
1	G	11	VAL	CA-CB-CG2	5.41	119.59	110.40
1	K	229	ARG	CD-NE-CZ	-5.41	116.83	124.40
1	G	58	THR	N-CA-C	5.41	119.72	113.18
1	L	188	THR	N-CA-CB	5.41	119.62	110.49
1	R	138	LEU	CA-C-N	5.41	129.82	120.58
1	R	138	LEU	C-N-CA	5.41	129.82	120.58
1	j	93	PRO	N-CA-CB	5.41	108.14	103.27
1	m	16	SER	CA-C-O	-5.41	114.41	120.25
1	7	117	TRP	CD2-CE3-CZ3	-5.41	111.57	118.60
1	g	48	THR	CA-C-O	5.41	126.85	120.96
1	Q	51	ASP	CA-C-O	5.40	126.28	120.55
1	5	114	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	l	68	MET	CG-SD-CE	-5.40	89.01	100.90
1	A	135	ILE	N-CA-CB	5.40	118.68	110.58
1	F	5	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	J	179	GLN	CA-C-N	5.40	127.46	120.44
1	J	179	GLN	C-N-CA	5.40	127.46	120.44
1	M	180	GLU	O-C-N	-5.40	116.39	122.12
1	N	135	ILE	CB-CA-C	5.40	119.67	112.22
1	P	36	VAL	O-C-N	-5.40	116.41	121.87
1	S	154	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	Y	11	VAL	CA-C-O	-5.40	117.41	121.68
1	a	58	THR	O-C-N	-5.40	115.42	122.39
1	b	198	CYS	CB-CA-C	-5.40	100.30	110.67
1	k	82	ARG	N-CA-C	5.40	116.85	111.07
1	m	211	LEU	N-CA-CB	-5.40	101.42	110.39
1	I	227	LYS	O-C-N	-5.40	116.77	123.36
1	W	229	ARG	N-CA-CB	-5.40	102.18	110.12
1	Z	58	THR	N-CA-CB	5.40	119.35	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	53	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	K	169	TYR	CB-CG-CD1	-5.40	112.70	120.80
1	R	90	PRO	N-CA-CB	-5.40	98.61	103.36
1	T	194	ALA	CA-C-O	5.40	128.15	121.94
1	b	191	VAL	N-CA-C	-5.40	104.21	111.44
1	l	212	GLU	CA-C-N	5.40	128.05	120.28
1	l	212	GLU	C-N-CA	5.40	128.05	120.28
1	l	216	THR	N-CA-C	5.40	119.12	112.54
1	N	47	ALA	O-C-N	-5.40	117.07	123.11
1	E	196	PRO	N-CA-C	5.39	123.58	112.47
1	P	97	ARG	N-CA-C	5.39	118.05	110.23
1	7	23	TRP	CG-CD2-CE3	-5.39	128.51	133.90
1	S	50	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	T	216	THR	N-CA-C	-5.39	105.48	111.36
1	V	197	ASP	CA-C-N	5.39	127.45	120.44
1	V	197	ASP	C-N-CA	5.39	127.45	120.44
1	b	161	PHE	CA-CB-CG	-5.39	108.41	113.80
1	d	96	MET	CG-SD-CE	-5.39	89.04	100.90
1	c	114	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	d	50	GLN	CA-C-N	5.39	127.45	120.44
1	d	50	GLN	C-N-CA	5.39	127.45	120.44
1	F	133	TRP	CB-CG-CD1	5.39	134.99	126.90
1	R	159	GLU	CB-CA-C	-5.39	102.68	109.31
1	S	166	ASP	CA-CB-CG	5.39	117.99	112.60
1	V	80	TRP	CD2-CE2-CZ2	-5.39	117.01	122.40
1	5	183	ASN	N-CA-CB	5.39	118.04	110.12
1	a	81	ASP	CA-CB-CG	-5.39	107.21	112.60
1	m	145	TYR	CA-C-O	5.39	126.48	120.82
1	7	122	PRO	N-CA-CB	5.39	108.53	102.60
1	R	141	ILE	CB-CA-C	-5.39	104.78	112.22
1	d	192	GLN	N-CA-C	5.39	117.23	111.36
1	e	110	THR	O-C-N	-5.39	116.94	123.03
1	A	12	HIS	CE1-NE2-CD2	-5.39	103.61	109.00
1	P	71	GLU	N-CA-C	5.39	117.85	111.33
1	U	166	ASP	N-CA-C	5.39	117.23	111.36
1	6	2	ILE	CB-CA-C	-5.39	102.07	110.69
1	d	136	LEU	CA-C-O	5.39	126.13	120.42
1	e	43	LEU	N-CA-C	5.39	117.15	111.28
1	O	115	ILE	N-CA-C	5.38	115.59	110.53
1	P	161	PHE	CA-CB-CG	-5.38	108.42	113.80
1	S	73	ILE	N-CA-C	5.38	116.11	110.62
1	5	201	ILE	CA-C-N	5.38	128.50	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	201	ILE	C-N-CA	5.38	128.50	120.31
1	7	119	THR	N-CA-CB	5.38	118.46	110.49
1	5	24	VAL	CA-C-O	5.38	126.09	119.58
1	6	74	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	j	90	PRO	N-CA-C	5.38	123.56	112.47
1	l	56	LEU	CA-C-N	5.38	132.07	122.06
1	l	56	LEU	C-N-CA	5.38	132.07	122.06
1	G	116	GLY	O-C-N	-5.38	117.02	122.19
1	G	142	VAL	CA-CB-CG2	-5.38	101.25	110.40
1	O	19	THR	O-C-N	-5.38	116.01	122.15
1	T	35	GLU	CA-C-N	5.38	129.47	120.64
1	T	35	GLU	C-N-CA	5.38	129.47	120.64
1	V	163	ASP	CA-CB-CG	-5.38	107.22	112.60
1	Y	13	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	i	113	GLU	CA-C-N	5.38	127.49	120.28
1	i	113	GLU	C-N-CA	5.38	127.49	120.28
1	i	162	ARG	CD-NE-CZ	-5.38	116.86	124.40
1	i	218	CYS	CA-C-O	5.38	128.21	120.51
1	e	198	CYS	CA-C-O	-5.38	114.72	120.42
1	N	70	LYS	CA-C-N	5.38	127.49	120.28
1	N	70	LYS	C-N-CA	5.38	127.49	120.28
1	R	71	GLU	CA-C-N	5.38	128.03	120.28
1	R	71	GLU	C-N-CA	5.38	128.03	120.28
1	W	212	GLU	N-CA-C	5.38	117.90	111.71
1	M	204	ALA	CA-C-O	-5.38	114.72	120.42
1	O	100	ARG	CA-C-N	5.38	126.06	120.03
1	O	100	ARG	C-N-CA	5.38	126.06	120.03
1	Y	146	SER	O-C-N	5.38	126.09	121.30
1	l	80	TRP	CE2-CD2-CE3	5.38	124.18	118.80
1	D	62	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	F	34	PRO	CA-C-N	5.38	128.02	120.28
1	F	34	PRO	C-N-CA	5.38	128.02	120.28
1	G	55	MET	CG-SD-CE	-5.38	89.07	100.90
1	M	132	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	N	173	ARG	NE-CZ-NH1	-5.38	116.12	121.50
1	Q	128	GLU	O-C-N	-5.38	116.02	122.15
1	R	223	GLY	CA-C-N	5.38	124.71	118.85
1	R	223	GLY	C-N-CA	5.38	124.71	118.85
1	l	176	GLN	N-CA-CB	5.38	119.58	110.49
1	Y	87	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	i	209	ALA	CA-C-N	5.38	128.87	120.75
1	i	209	ALA	C-N-CA	5.38	128.87	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	18	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	d	210	THR	O-C-N	-5.38	116.39	122.68
1	G	86	VAL	O-C-N	-5.37	117.07	123.03
1	K	187	GLU	N-CA-C	5.37	117.14	111.28
1	R	120	HIS	CA-C-O	-5.37	115.96	121.87
1	d	141	ILE	O-C-N	-5.37	114.75	121.84
1	E	120	HIS	N-CA-C	5.37	117.62	110.53
1	K	15	ILE	CB-CA-C	5.37	120.34	111.59
1	O	226	HIS	CG-CD2-NE2	5.37	112.57	107.20
1	Z	207	PRO	N-CD-CG	5.37	111.26	103.20
1	5	202	LEU	CA-C-N	5.37	127.42	120.44
1	5	202	LEU	C-N-CA	5.37	127.42	120.44
1	6	48	THR	N-CA-CB	5.37	115.97	109.74
1	i	42	ALA	CA-C-N	5.37	127.48	120.28
1	i	42	ALA	C-N-CA	5.37	127.48	120.28
1	k	126	VAL	CA-CB-CG2	5.37	119.53	110.40
1	k	152	ASP	N-CA-CB	-5.37	102.40	110.73
1	d	200	THR	CB-CA-C	-5.37	101.72	110.85
1	e	176	GLN	O-C-N	-5.37	115.74	122.24
1	6	130	TYR	CA-C-N	5.37	127.73	120.38
1	6	130	TYR	C-N-CA	5.37	127.73	120.38
1	j	85	PRO	O-C-N	5.37	129.41	122.91
1	H	99	PRO	N-CA-C	5.37	118.90	110.80
1	U	110	THR	OG1-CB-CG2	-5.37	98.57	109.30
1	K	67	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	L	48	THR	CA-C-N	5.37	125.44	119.32
1	L	48	THR	C-N-CA	5.37	125.44	119.32
1	N	96	MET	CA-C-N	5.37	129.94	120.87
1	N	96	MET	C-N-CA	5.37	129.94	120.87
1	Q	141	ILE	CA-CB-CG2	-5.37	101.38	110.50
1	U	156	GLY	O-C-N	5.37	127.14	121.77
1	U	229	ARG	N-CA-C	5.37	117.00	108.79
1	V	159	GLU	CA-C-O	-5.37	115.68	120.19
1	5	27	VAL	CA-C-O	5.37	126.54	120.85
1	7	61	GLY	CA-C-N	5.37	131.79	121.54
1	7	61	GLY	C-N-CA	5.37	131.79	121.54
1	F	152	ASP	CA-CB-CG	-5.36	107.24	112.60
1	M	195	ASN	N-CA-C	5.36	117.79	110.01
1	N	82	ARG	CA-C-O	5.36	126.45	120.82
1	P	38	PRO	CA-C-N	5.36	127.91	120.29
1	P	38	PRO	C-N-CA	5.36	127.91	120.29
1	R	55	MET	CG-SD-CE	-5.36	89.10	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	183	ASN	OD1-CG-ND2	-5.36	117.24	122.60
1	b	80	TRP	N-CA-CB	-5.36	102.22	110.16
1	l	62	HIS	ND1-CG-CD2	5.36	111.46	106.10
1	E	120	HIS	CA-CB-CG	5.36	119.16	113.80
1	K	179	GLN	CA-CB-CG	-5.36	103.38	114.10
1	N	58	THR	CA-C-O	5.36	125.97	119.38
1	Q	211	LEU	O-C-N	-5.36	116.04	122.15
1	e	85	PRO	CB-CA-C	-5.36	102.96	110.63
1	K	159	GLU	CA-C-O	-5.36	114.26	119.51
1	M	123	PRO	CB-CA-C	-5.36	104.53	111.39
1	Q	112	GLN	N-CA-C	5.36	119.67	113.18
1	X	30	LYS	N-CA-CB	-5.36	102.42	110.73
1	i	144	MET	O-C-N	-5.36	116.55	122.07
1	f	103	ASP	CA-C-N	5.36	128.03	120.42
1	f	103	ASP	C-N-CA	5.36	128.03	120.42
1	h	189	LEU	CB-CA-C	-5.36	101.29	110.24
1	U	13	GLN	O-C-N	-5.36	116.95	123.27
1	j	195	ASN	OD1-CG-ND2	-5.36	117.24	122.60
1	C	191	VAL	CB-CA-C	-5.36	105.02	112.04
1	G	120	HIS	ND1-CE1-NE2	5.36	113.76	108.40
1	K	190	LEU	N-CA-CB	-5.36	102.22	110.20
1	K	225	GLY	CA-C-O	5.36	125.67	119.13
1	R	140	LYS	CA-C-O	5.36	126.42	120.63
1	X	168	PHE	CA-CB-CG	-5.36	108.44	113.80
1	Y	120	HIS	O-C-N	-5.36	115.47	122.59
1	i	12	HIS	CB-CG-ND1	5.36	130.74	122.70
1	h	147	PRO	CB-CA-C	-5.36	103.15	111.40
1	D	54	THR	O-C-N	-5.36	116.44	122.12
1	E	212	GLU	N-CA-C	5.36	117.12	111.28
1	F	155	GLN	OE1-CD-NE2	-5.36	117.25	122.60
1	L	159	GLU	CA-C-O	-5.36	112.82	120.16
1	Q	173	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	X	217	ALA	N-CA-C	5.36	117.60	110.53
1	d	189	LEU	CA-C-N	5.36	127.72	120.65
1	d	189	LEU	C-N-CA	5.36	127.72	120.65
1	K	55	MET	N-CA-C	5.35	116.80	111.07
1	L	144	MET	N-CA-CB	-5.35	102.24	110.16
1	N	211	LEU	N-CA-C	5.35	117.12	111.28
1	a	55	MET	N-CA-C	5.35	117.53	111.11
1	R	30	LYS	CA-C-O	5.35	125.53	119.27
1	j	213	GLU	CA-C-N	5.35	127.45	120.28
1	j	213	GLU	C-N-CA	5.35	127.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	133	TRP	N-CA-C	-5.35	105.61	111.82
1	C	120	HIS	ND1-CG-CD2	-5.35	100.75	106.10
1	m	37	ILE	CA-C-N	5.35	124.81	119.24
1	m	37	ILE	C-N-CA	5.35	124.81	119.24
1	h	226	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	F	179	GLN	N-CA-CB	5.35	118.46	110.22
1	G	207	PRO	CA-C-N	-5.35	114.16	122.67
1	G	207	PRO	C-N-CA	-5.35	114.16	122.67
1	P	201	ILE	CB-CA-C	5.35	119.60	112.22
1	X	109	SER	CA-C-N	5.35	130.27	121.39
1	X	109	SER	C-N-CA	5.35	130.27	121.39
1	5	12	HIS	CA-C-O	-5.35	114.95	121.05
1	c	187	GLU	CB-CA-C	-5.35	102.72	110.96
1	k	87	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	B	23	TRP	O-C-N	-5.35	116.56	122.07
1	D	212	GLU	CA-C-O	-5.35	114.06	120.10
1	O	70	LYS	N-CA-CB	5.35	118.57	110.28
1	U	75	GLU	CA-C-O	5.35	126.12	119.97
1	V	80	TRP	CZ3-CH2-CZ2	-5.35	114.55	121.50
1	k	120	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	f	9	GLN	CB-CA-C	5.35	118.35	109.53
1	5	129	ILE	CB-CA-C	-5.34	104.92	112.14
1	g	197	ASP	CA-C-O	5.34	125.24	119.15
1	K	184	TRP	O-C-N	-5.34	116.06	122.15
1	M	121	ASN	CB-CA-C	-5.34	102.23	110.62
1	i	197	ASP	N-CA-C	5.34	116.91	111.14
1	J	217	ALA	N-CA-C	5.34	117.18	111.36
1	W	86	VAL	CB-CA-C	-5.34	103.72	111.68
1	l	227	LYS	N-CA-CB	5.34	118.95	111.15
1	m	205	LEU	CA-C-O	5.34	126.08	120.42
1	E	6	LEU	N-CA-C	5.34	118.06	110.10
1	J	178	SER	N-CA-C	5.34	117.18	110.24
1	Q	163	ASP	CA-CB-CG	-5.34	107.26	112.60
1	6	130	TYR	CA-C-O	-5.34	114.89	120.55
1	h	156	GLY	CA-C-N	5.34	125.81	120.04
1	h	156	GLY	C-N-CA	5.34	125.81	120.04
1	E	73	ILE	O-C-N	-5.34	116.69	121.87
1	f	40	PHE	CA-C-N	5.34	127.87	120.29
1	f	40	PHE	C-N-CA	5.34	127.87	120.29
1	N	190	LEU	N-CA-CB	-5.33	101.99	109.94
1	P	18	ARG	N-CA-C	5.33	117.84	111.71
1	k	180	GLU	CA-C-N	5.33	127.77	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	180	GLU	C-N-CA	5.33	127.77	120.46
1	7	203	LYS	CA-C-N	5.33	127.87	120.29
1	7	203	LYS	C-N-CA	5.33	127.87	120.29
1	E	183	ASN	CA-CB-CG	-5.33	107.27	112.60
1	O	193	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	X	149	SER	CA-C-O	5.33	126.74	120.98
1	5	173	ARG	N-CA-C	5.33	117.17	111.36
1	l	146	SER	N-CA-CB	5.33	117.22	110.23
1	d	121	ASN	CB-CA-C	-5.33	104.02	110.15
1	m	13	GLN	CB-CA-C	-5.33	99.13	109.68
1	A	13	GLN	N-CA-C	-5.33	99.64	108.75
1	E	218	CYS	CA-C-N	5.33	130.67	120.97
1	E	218	CYS	C-N-CA	5.33	130.67	120.97
1	Q	110	THR	N-CA-C	-5.33	102.57	110.46
1	S	54	THR	N-CA-C	-5.33	105.55	111.36
1	Y	190	LEU	CA-C-N	5.33	127.99	120.42
1	Y	190	LEU	C-N-CA	5.33	127.99	120.42
1	Z	87	HIS	CA-CB-CG	5.33	119.13	113.80
1	c	120	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	7	76	GLU	N-CA-CB	5.33	119.09	110.40
1	e	44	SER	N-CA-C	5.33	119.65	113.20
1	h	122	PRO	N-CD-CG	-5.33	97.41	103.80
1	K	190	LEU	CA-C-O	5.33	126.15	120.24
1	T	174	ALA	N-CA-C	5.33	117.78	111.33
1	V	102	SER	O-C-N	-5.33	116.58	122.07
1	G	23	TRP	CZ3-CH2-CZ2	-5.33	114.58	121.50
1	N	151	LEU	N-CA-C	5.33	118.00	111.82
1	Q	103	ASP	CB-CA-C	-5.33	98.74	109.55
1	S	173	ARG	CA-C-N	5.33	127.36	120.44
1	S	173	ARG	C-N-CA	5.33	127.36	120.44
1	T	143	ARG	NE-CZ-NH2	-5.33	114.41	119.20
1	V	142	VAL	CA-C-N	5.33	127.36	120.44
1	V	142	VAL	C-N-CA	5.33	127.36	120.44
1	i	110	THR	CA-CB-OG1	5.33	117.59	109.60
1	j	221	VAL	N-CA-C	5.33	120.31	113.07
1	7	179	GLN	N-CA-C	5.33	117.77	111.33
1	g	58	THR	CA-CB-OG1	5.33	117.59	109.60
1	E	193	ASN	CA-CB-CG	-5.32	107.28	112.60
1	M	26	VAL	N-CA-C	-5.32	105.34	110.72
1	P	118	MET	CA-C-O	-5.32	112.71	119.31
1	b	59	VAL	O-C-N	-5.32	116.90	122.81
1	6	188	THR	O-C-N	-5.32	115.54	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	22	ALA	CB-CA-C	-5.32	101.95	110.79
1	B	113	GLU	CB-CA-C	5.32	120.89	110.67
1	R	11	VAL	CA-C-O	5.32	126.86	121.64
1	T	162	ARG	CA-C-N	5.32	127.41	120.28
1	T	162	ARG	C-N-CA	5.32	127.41	120.28
1	V	99	PRO	O-C-N	-5.32	116.36	123.06
1	a	42	ALA	N-CA-CB	5.32	118.42	110.22
1	i	67	GLN	O-C-N	-5.32	115.99	122.22
1	m	180	GLU	N-CA-CB	-5.32	102.03	110.28
1	Q	62	HIS	ND1-CG-CD2	5.32	111.42	106.10
1	b	14	ALA	CA-C-N	5.32	128.54	120.77
1	b	14	ALA	C-N-CA	5.32	128.54	120.77
1	6	149	SER	O-C-N	-5.32	117.10	123.06
1	d	92	GLU	CA-C-N	5.32	127.48	121.04
1	d	92	GLU	C-N-CA	5.32	127.48	121.04
1	g	93	PRO	N-CA-C	5.32	119.57	111.11
1	F	6	LEU	CA-C-N	5.32	129.91	122.36
1	F	6	LEU	C-N-CA	5.32	129.91	122.36
1	F	58	THR	O-C-N	-5.32	116.59	122.07
1	F	84	HIS	CB-CA-C	-5.32	105.12	110.65
1	H	110	THR	CA-C-N	5.32	127.41	120.28
1	H	110	THR	C-N-CA	5.32	127.41	120.28
1	O	117	TRP	N-CA-C	5.32	119.49	112.89
1	P	202	LEU	O-C-N	-5.32	115.30	122.43
1	C	184	TRP	CA-C-N	5.32	128.15	120.38
1	C	184	TRP	C-N-CA	5.32	128.15	120.38
1	D	12	HIS	ND1-CE1-NE2	5.32	113.72	108.40
1	I	38	PRO	N-CA-C	-5.32	106.47	113.65
1	P	210	THR	CA-CB-OG1	5.32	117.58	109.60
1	Q	178	SER	CA-C-N	5.32	127.41	120.28
1	Q	178	SER	C-N-CA	5.32	127.41	120.28
1	T	133	TRP	CB-CA-C	-5.32	101.86	110.79
1	U	72	THR	CA-C-O	-5.32	114.91	120.55
1	V	210	THR	CA-CB-CG2	5.32	119.54	110.50
1	W	200	THR	OG1-CB-CG2	-5.32	98.67	109.30
1	5	95	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	m	161	PHE	CA-C-N	5.32	128.80	120.82
1	m	161	PHE	C-N-CA	5.32	128.80	120.82
1	K	21	ASN	CB-CA-C	-5.32	101.97	110.79
1	V	79	GLU	N-CA-CB	-5.32	102.29	110.16
1	Z	112	GLN	CG-CD-OE1	5.32	131.43	120.80
1	Z	189	LEU	N-CA-C	5.32	118.23	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	157	PRO	N-CA-C	5.32	120.52	113.40
1	k	219	GLN	CG-CD-NE2	-5.32	108.43	116.40
1	7	40	PHE	CA-CB-CG	-5.32	108.48	113.80
1	e	112	GLN	O-C-N	-5.32	116.48	122.12
1	g	219	GLN	CB-CA-C	-5.32	99.62	109.29
1	h	15	ILE	CA-CB-CG1	5.32	119.44	110.40
1	B	189	LEU	N-CA-C	5.31	118.86	112.38
1	G	24	VAL	CA-CB-CG1	-5.31	101.37	110.40
1	G	57	ASN	CB-CA-C	-5.31	100.44	110.01
1	Q	194	ALA	CA-C-O	5.31	128.11	120.51
1	Q	220	GLY	O-C-N	-5.31	116.92	121.97
1	B	64	ALA	CB-CA-C	-5.31	101.97	110.79
1	B	223	GLY	CA-C-O	-5.31	113.92	121.52
1	N	84	HIS	CA-C-N	5.31	125.32	119.90
1	N	84	HIS	C-N-CA	5.31	125.32	119.90
1	Y	86	VAL	O-C-N	-5.31	116.45	122.72
1	c	219	GLN	N-CA-C	5.31	119.38	113.01
1	l	162	ARG	N-CA-C	5.31	117.76	111.33
1	m	179	GLN	N-CA-C	5.31	117.76	111.33
1	F	24	VAL	CA-C-N	5.31	127.83	120.29
1	F	24	VAL	C-N-CA	5.31	127.83	120.29
1	Q	99	PRO	CA-C-O	-5.31	115.38	121.86
1	R	167	ARG	CA-C-N	5.31	127.40	120.28
1	R	167	ARG	C-N-CA	5.31	127.40	120.28
1	Z	20	LEU	CA-C-N	5.31	127.34	120.44
1	Z	20	LEU	C-N-CA	5.31	127.34	120.44
1	k	6	LEU	O-C-N	-5.31	116.57	122.09
1	k	173	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	g	106	GLY	CA-C-O	5.31	124.92	119.02
1	g	119	THR	N-CA-CB	5.31	118.57	110.44
1	X	182	LYS	CA-C-N	5.31	127.34	120.44
1	X	182	LYS	C-N-CA	5.31	127.34	120.44
1	Z	186	THR	CA-C-O	5.31	126.18	120.55
1	i	194	ALA	CA-C-N	5.31	128.21	120.51
1	i	194	ALA	C-N-CA	5.31	128.21	120.51
1	f	159	GLU	N-CA-CB	-5.31	100.29	110.27
1	A	37	ILE	O-C-N	-5.31	117.02	120.42
1	K	111	LEU	N-CA-CB	5.31	117.92	110.12
1	O	111	LEU	CA-C-N	5.31	127.39	120.28
1	O	111	LEU	C-N-CA	5.31	127.39	120.28
1	P	97	ARG	CA-C-N	5.31	127.78	120.67
1	P	97	ARG	C-N-CA	5.31	127.78	120.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	132	ARG	CD-NE-CZ	5.31	131.83	124.40
1	X	196	PRO	O-C-N	-5.31	116.14	122.24
1	b	88	ALA	CA-C-N	5.31	130.20	121.87
1	b	88	ALA	C-N-CA	5.31	130.20	121.87
1	6	214	MET	CA-CB-CG	-5.31	103.49	114.10
1	C	193	ASN	N-CA-CB	-5.31	102.81	110.56
1	T	48	THR	O-C-N	-5.31	115.98	121.60
1	X	180	GLU	N-CA-CB	-5.31	102.05	110.22
1	a	173	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	i	51	ASP	N-CA-C	5.31	117.06	111.28
1	5	54	THR	CB-CA-C	-5.30	100.82	110.63
1	a	98	GLU	N-CA-C	5.30	117.12	109.48
1	6	213	GLU	CA-C-O	5.30	125.81	119.60
1	i	135	ILE	CA-C-O	-5.30	115.43	120.95
1	e	172	LEU	N-CA-C	5.30	117.75	111.33
1	F	188	THR	O-C-N	-5.30	116.22	122.32
1	Q	107	THR	N-CA-CB	5.30	117.76	110.07
1	X	39	MET	CA-C-N	5.30	127.39	120.28
1	X	39	MET	C-N-CA	5.30	127.39	120.28
1	l	62	HIS	N-CA-C	5.30	117.11	110.91
1	A	229	ARG	CA-C-O	5.30	124.35	118.52
1	F	163	ASP	CA-CB-CG	-5.30	107.30	112.60
1	H	203	LYS	N-CA-C	-5.30	105.58	111.36
1	W	109	SER	CA-C-N	5.30	129.83	120.87
1	W	109	SER	C-N-CA	5.30	129.83	120.87
1	D	129	ILE	O-C-N	-5.30	116.73	121.87
1	V	195	ASN	CB-CG-ND2	-5.30	108.45	116.40
1	X	89	GLY	CA-C-N	5.30	125.22	119.76
1	X	89	GLY	C-N-CA	5.30	125.22	119.76
1	Y	169	TYR	N-CA-CB	5.30	118.00	110.16
1	5	12	HIS	CA-CB-CG	5.30	119.10	113.80
1	m	198	CYS	O-C-N	-5.30	116.61	122.07
1	C	189	LEU	N-CA-C	5.30	117.74	111.33
1	G	75	GLU	CA-C-O	5.30	126.17	120.55
1	H	95	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	X	58	THR	N-CA-CB	5.30	118.70	110.44
1	Y	92	GLU	CA-C-O	-5.30	113.96	120.05
1	a	225	GLY	O-C-N	-5.30	115.81	122.70
1	A	107	THR	O-C-N	5.30	128.19	122.15
1	B	120	HIS	CA-C-O	-5.30	115.56	121.81
1	Q	73	ILE	O-C-N	5.30	127.01	121.87
1	W	51	ASP	N-CA-CB	5.30	117.91	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	210	THR	CB-CA-C	-5.30	100.58	109.53
1	5	135	ILE	N-CA-CB	5.30	117.74	110.54
1	j	98	GLU	O-C-N	-5.30	116.43	121.20
1	P	205	LEU	CB-CA-C	5.29	119.19	110.88
1	l	156	GLY	CA-C-O	-5.29	117.32	122.46
1	e	164	TYR	N-CA-C	5.29	117.13	111.36
1	g	85	PRO	N-CA-CB	-5.29	98.42	103.34
1	g	120	HIS	CE1-NE2-CD2	-5.29	103.70	109.00
1	F	195	ASN	O-C-N	-5.29	115.85	121.30
1	O	180	GLU	N-CA-CB	5.29	117.69	110.01
1	P	41	SER	CA-C-O	-5.29	114.81	120.42
1	P	48	THR	O-C-N	-5.29	113.60	120.96
1	X	31	ALA	N-CA-C	5.29	122.08	110.80
1	Z	147	PRO	CA-C-N	5.29	130.86	122.60
1	Z	147	PRO	C-N-CA	5.29	130.86	122.60
1	7	139	ASN	CA-CB-CG	-5.29	107.31	112.60
1	H	82	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	I	39	MET	CA-C-O	5.29	126.16	120.55
1	Z	21	ASN	CB-CG-ND2	5.29	124.34	116.40
1	7	190	LEU	CA-C-O	-5.29	114.89	120.55
1	A	84	HIS	CB-CA-C	-5.29	103.71	111.01
1	Q	91	ILE	CB-CA-C	-5.29	104.23	110.84
1	7	114	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	g	74	ASN	CA-C-N	5.29	127.32	120.44
1	g	74	ASN	C-N-CA	5.29	127.32	120.44
1	D	26	VAL	CB-CA-C	5.29	118.95	112.02
1	E	222	GLY	N-CA-C	-5.29	106.41	115.08
1	H	20	LEU	N-CA-CB	5.29	117.99	110.16
1	N	219	GLN	N-CA-C	-5.29	101.09	109.76
1	6	195	ASN	N-CA-C	5.29	117.68	110.01
1	d	128	GLU	CA-C-O	5.29	126.16	120.55
1	E	19	THR	CA-C-N	5.29	127.80	120.29
1	E	19	THR	C-N-CA	5.29	127.80	120.29
1	E	32	PHE	CA-CB-CG	-5.29	108.51	113.80
1	J	168	PHE	O-C-N	5.29	127.59	122.09
1	j	29	GLU	N-CA-C	5.29	116.85	111.14
1	A	71	GLU	N-CA-C	5.29	117.04	111.28
1	A	161	PHE	CA-C-O	5.29	126.05	119.97
1	C	97	ARG	CG-CD-NE	-5.29	100.37	112.00
1	D	219	GLN	CB-CG-CD	-5.29	103.61	112.60
1	J	164	TYR	CA-C-N	5.29	127.70	120.46
1	J	164	TYR	C-N-CA	5.29	127.70	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	59	VAL	N-CA-CB	5.29	116.87	110.95
1	U	23	TRP	CH2-CZ2-CE2	5.29	124.37	117.50
1	5	219	GLN	CA-C-O	5.29	125.61	119.32
1	j	130	TYR	O-C-N	-5.29	116.52	122.12
1	k	160	PRO	O-C-N	-5.29	116.46	123.01
1	e	145	TYR	CB-CA-C	-5.29	101.26	110.09
1	f	69	LEU	CA-C-N	5.29	127.36	120.28
1	f	69	LEU	C-N-CA	5.29	127.36	120.28
1	f	182	LYS	N-CA-CB	5.29	117.67	110.01
1	K	230	VAL	O-C-N	-5.28	117.02	122.14
1	b	40	PHE	O-C-N	-5.28	116.59	122.09
1	e	185	MET	CG-SD-CE	-5.28	89.28	100.90
1	f	100	ARG	CA-C-N	5.28	125.96	119.99
1	f	100	ARG	C-N-CA	5.28	125.96	119.99
1	C	57	ASN	N-CA-C	5.28	119.69	112.88
1	Y	120	HIS	N-CA-C	5.28	122.05	110.80
1	L	144	MET	O-C-N	-5.28	116.13	122.15
1	T	118	MET	O-C-N	-5.28	115.78	122.27
1	i	148	THR	CA-CB-CG2	5.28	119.48	110.50
1	g	229	ARG	O-C-N	-5.28	115.57	122.59
1	P	163	ASP	CA-CB-CG	5.28	117.88	112.60
1	R	116	GLY	CA-C-O	5.28	126.10	120.40
1	F	124	ILE	N-CA-CB	5.28	117.72	111.23
1	P	128	GLU	CA-C-N	5.28	127.21	120.56
1	P	128	GLU	C-N-CA	5.28	127.21	120.56
1	c	200	THR	N-CA-C	5.28	117.03	111.28
1	6	6	LEU	N-CA-C	5.28	118.91	111.52
1	m	120	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	f	24	VAL	CA-C-N	5.28	127.30	120.44
1	f	24	VAL	C-N-CA	5.28	127.30	120.44
1	h	194	ALA	CA-C-N	5.28	128.67	120.60
1	h	194	ALA	C-N-CA	5.28	128.67	120.60
1	J	122	PRO	CA-C-N	5.28	125.25	120.03
1	J	122	PRO	C-N-CA	5.28	125.25	120.03
1	Q	203	LYS	N-CA-C	5.28	117.03	111.28
1	V	120	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	X	167	ARG	CG-CD-NE	-5.28	100.39	112.00
1	X	204	ALA	N-CA-C	5.28	117.03	111.28
1	Y	39	MET	CA-C-O	5.28	126.13	120.70
1	5	177	ALA	N-CA-CB	5.28	118.36	109.92
1	6	68	MET	N-CA-C	5.28	117.03	111.28
1	e	168	PHE	N-CA-C	5.28	118.18	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	MET	O-C-N	-5.27	116.64	122.07
1	A	89	GLY	CA-C-N	5.27	125.57	119.93
1	A	89	GLY	C-N-CA	5.27	125.57	119.93
1	P	87	HIS	CA-CB-CG	5.27	119.07	113.80
1	Z	28	GLU	CB-CA-C	-5.27	100.55	110.67
1	6	19	THR	CA-C-N	5.27	127.34	120.28
1	6	19	THR	C-N-CA	5.27	127.34	120.28
1	d	228	ALA	N-CA-CB	-5.27	102.90	110.65
1	W	151	LEU	N-CA-CB	5.27	117.96	110.16
1	f	193	ASN	CA-CB-CG	5.27	117.87	112.60
1	E	49	PRO	N-CA-C	5.27	121.45	113.81
1	J	79	GLU	CA-C-O	5.27	126.35	120.82
1	Q	185	MET	N-CA-C	-5.27	105.62	111.36
1	S	187	GLU	CA-C-N	5.27	131.61	121.54
1	S	187	GLU	C-N-CA	5.27	131.61	121.54
1	W	105	ALA	CA-C-O	5.27	125.84	119.31
1	l	177	ALA	N-CA-C	5.27	117.93	110.50
1	E	41	SER	N-CA-C	5.27	117.10	111.36
1	E	118	MET	CG-SD-CE	-5.27	89.31	100.90
1	F	61	GLY	CA-C-N	5.27	130.27	123.00
1	F	61	GLY	C-N-CA	5.27	130.27	123.00
1	I	138	LEU	N-CA-C	-5.27	105.62	111.36
1	P	226	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	T	65	ALA	O-C-N	-5.27	116.54	122.12
1	K	2	ILE	CB-CA-C	5.27	118.82	111.34
1	M	21	ASN	N-CA-C	5.27	117.43	111.11
1	i	154	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	E	91	ILE	O-C-N	-5.26	117.03	122.66
1	G	180	GLU	N-CA-CB	-5.26	102.16	110.06
1	I	55	MET	CG-SD-CE	-5.26	89.32	100.90
1	c	121	ASN	OD1-CG-ND2	-5.26	117.34	122.60
1	j	202	LEU	N-CA-CB	5.26	117.86	110.12
1	l	102	SER	CA-C-O	5.26	126.00	120.42
1	d	16	SER	CA-C-O	-5.26	114.74	120.69
1	V	79	GLU	N-CA-C	5.26	117.10	111.36
1	b	138	LEU	CA-C-N	5.26	127.33	120.28
1	b	138	LEU	C-N-CA	5.26	127.33	120.28
1	c	211	LEU	N-CA-C	5.26	117.76	111.71
1	I	157	PRO	CA-N-CD	-5.26	104.64	112.00
1	J	12	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	Q	230	VAL	CB-CA-C	-5.26	105.14	110.93
1	b	48	THR	CA-CB-OG1	5.26	117.49	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	226	HIS	CA-C-N	5.26	127.59	120.44
1	Q	226	HIS	C-N-CA	5.26	127.59	120.44
1	U	93	PRO	CB-CA-C	5.26	120.24	111.56
1	C	108	THR	CA-CB-OG1	5.26	117.49	109.60
1	R	171	THR	CA-C-N	5.26	127.85	120.28
1	R	171	THR	C-N-CA	5.26	127.85	120.28
1	S	37	ILE	O-C-N	-5.26	116.34	120.07
1	P	108	THR	OG1-CB-CG2	-5.26	98.79	109.30
1	S	45	GLU	O-C-N	-5.26	116.34	122.96
1	a	62	HIS	CB-CG-CD2	-5.26	124.37	131.20
1	i	4	GLN	O-C-N	-5.26	116.16	122.15
1	k	110	THR	O-C-N	-5.26	116.53	122.68
1	l	144	MET	CA-C-N	5.26	131.60	122.56
1	l	144	MET	C-N-CA	5.26	131.60	122.56
1	N	66	MET	N-CA-C	5.25	117.75	111.71
1	O	84	HIS	N-CA-C	5.25	122.99	111.53
1	P	226	HIS	CA-C-O	5.25	126.12	120.55
1	a	30	LYS	CB-CA-C	-5.25	102.51	111.02
1	i	56	LEU	CA-C-O	5.25	126.01	119.97
1	h	193	ASN	OD1-CG-ND2	-5.25	117.34	122.60
1	A	215	MET	CA-C-N	5.25	131.37	122.65
1	A	215	MET	C-N-CA	5.25	131.37	122.65
1	B	110	THR	O-C-N	-5.25	117.09	123.03
1	E	54	THR	O-C-N	-5.25	116.55	122.12
1	F	142	VAL	CA-CB-CG1	5.25	119.33	110.40
1	H	149	SER	CA-CB-OG	5.25	121.61	111.10
1	M	168	PHE	N-CA-C	5.25	116.70	110.97
1	X	222	GLY	CA-C-N	5.25	130.12	121.87
1	X	222	GLY	C-N-CA	5.25	130.12	121.87
1	Y	202	LEU	N-CA-C	5.25	117.01	111.28
1	A	100	ARG	CG-CD-NE	-5.25	100.45	112.00
1	A	136	LEU	O-C-N	5.25	127.48	122.07
1	I	92	GLU	N-CA-C	5.25	117.14	109.84
1	M	176	GLN	OE1-CD-NE2	5.25	127.85	122.60
1	R	84	HIS	CA-C-N	5.25	126.07	119.98
1	R	84	HIS	C-N-CA	5.25	126.07	119.98
1	Z	71	GLU	N-CA-C	5.25	117.00	111.28
1	6	214	MET	CA-C-O	5.25	125.99	120.42
1	k	141	ILE	CA-C-N	5.25	128.77	120.47
1	k	141	ILE	C-N-CA	5.25	128.77	120.47
1	7	188	THR	CA-C-N	5.25	127.84	120.28
1	7	188	THR	C-N-CA	5.25	127.84	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	50	GLN	CA-C-O	5.25	126.07	120.24
1	A	53	ASN	CA-CB-CG	5.25	117.85	112.60
1	A	163	ASP	O-C-N	-5.25	115.41	122.23
1	G	203	LYS	CB-CA-C	-5.25	102.07	110.79
1	I	84	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	T	65	ALA	N-CA-C	5.25	117.68	111.33
1	l	31	ALA	N-CA-C	5.25	117.44	108.67
1	B	229	ARG	CD-NE-CZ	5.25	131.75	124.40
1	G	123	PRO	CA-N-CD	-5.25	104.65	112.00
1	L	113	GLU	CG-CD-OE1	5.25	130.47	118.40
1	N	62	HIS	ND1-CG-CD2	5.25	111.35	106.10
1	N	117	TRP	CD2-CE2-CZ2	-5.25	117.15	122.40
1	5	137	GLY	O-C-N	-5.25	117.14	122.18
1	I	35	GLU	CA-C-O	5.25	125.83	119.11
1	V	74	ASN	CA-C-O	5.25	126.06	120.24
1	a	204	ALA	N-CA-C	5.25	116.68	111.07
1	A	48	THR	CA-CB-OG1	5.24	117.47	109.60
1	C	9	GLN	CB-CA-C	-5.24	101.38	110.45
1	C	165	VAL	N-CA-CB	-5.24	102.72	110.58
1	H	13	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	I	217	ALA	CA-C-O	5.24	125.98	120.42
1	L	82	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	U	101	GLY	CA-C-O	5.24	125.69	119.50
1	W	101	GLY	O-C-N	-5.24	117.08	122.17
1	d	30	LYS	CA-CB-CG	-5.24	103.61	114.10
1	d	211	LEU	CA-C-O	-5.24	114.99	120.55
1	F	37	ILE	CA-CB-CG1	-5.24	101.49	110.40
1	K	153	ILE	CA-CB-CG1	5.24	119.31	110.40
1	L	120	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	U	195	ASN	CA-C-O	-5.24	114.77	120.69
1	Y	192	GLN	N-CA-CB	5.24	117.61	110.01
1	Z	48	THR	CA-C-N	5.24	125.30	119.32
1	Z	48	THR	C-N-CA	5.24	125.30	119.32
1	5	110	THR	CA-C-N	5.24	127.25	120.44
1	5	110	THR	C-N-CA	5.24	127.25	120.44
1	5	141	ILE	O-C-N	-5.24	116.04	122.12
1	e	140	LYS	CG-CD-CE	5.24	123.35	111.30
1	J	91	ILE	CB-CA-C	5.24	117.41	110.91
1	J	193	ASN	CA-CB-CG	-5.24	107.36	112.60
1	M	98	GLU	CB-CG-CD	-5.24	103.69	112.60
1	N	210	THR	CA-C-N	5.24	127.30	120.28
1	N	210	THR	C-N-CA	5.24	127.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	13	GLN	CA-C-N	5.24	128.28	120.95
1	P	13	GLN	C-N-CA	5.24	128.28	120.95
1	U	102	SER	CA-C-O	5.24	125.73	119.60
1	V	36	VAL	N-CA-C	5.24	117.60	111.05
1	W	54	THR	OG1-CB-CG2	-5.24	98.82	109.30
1	X	137	GLY	CA-C-O	5.24	126.06	120.40
1	Z	23	TRP	CE2-CD2-CE3	5.24	124.04	118.80
1	7	176	GLN	N-CA-CB	5.24	118.24	110.49
1	e	65	ALA	CA-C-O	-5.24	115.50	121.00
1	P	197	ASP	CA-CB-CG	-5.24	107.36	112.60
1	R	189	LEU	CA-C-N	5.24	127.61	120.54
1	R	189	LEU	C-N-CA	5.24	127.61	120.54
1	b	213	GLU	O-C-N	-5.24	116.57	122.12
1	l	113	GLU	CB-CA-C	-5.24	101.95	110.85
1	S	185	MET	CA-C-O	5.24	126.10	120.55
1	5	6	LEU	N-CA-C	5.24	118.47	111.24
1	c	23	TRP	CB-CA-C	-5.24	102.66	110.88
1	6	102	SER	CA-C-N	5.24	127.72	120.29
1	6	102	SER	C-N-CA	5.24	127.72	120.29
1	A	47	ALA	O-C-N	-5.23	117.07	123.19
1	E	144	MET	CG-SD-CE	-5.23	89.39	100.90
1	R	202	LEU	CA-C-N	5.23	127.29	120.28
1	R	202	LEU	C-N-CA	5.23	127.29	120.28
1	c	60	GLY	CA-C-N	5.23	129.11	121.05
1	c	60	GLY	C-N-CA	5.23	129.11	121.05
1	F	145	TYR	CA-C-N	5.23	134.57	121.80
1	F	145	TYR	C-N-CA	5.23	134.57	121.80
1	O	104	ILE	N-CA-C	-5.23	105.44	110.72
1	T	187	GLU	N-CA-C	5.23	117.06	111.36
1	U	87	HIS	O-C-N	5.23	128.87	122.75
1	l	151	LEU	CA-C-N	5.23	127.81	120.28
1	l	151	LEU	C-N-CA	5.23	127.81	120.28
1	C	84	HIS	N-CA-CB	5.23	119.68	110.37
1	M	160	PRO	N-CA-C	5.23	119.70	111.38
1	P	23	TRP	O-C-N	-5.23	116.19	122.15
1	W	19	THR	CA-CB-CG2	-5.23	101.61	110.50
1	b	13	GLN	N-CA-CB	5.23	120.39	111.66
1	6	229	ARG	NE-CZ-NH2	-5.23	114.49	119.20
1	e	21	ASN	CA-C-N	5.23	127.72	120.29
1	e	21	ASN	C-N-CA	5.23	127.72	120.29
1	M	205	LEU	N-CA-CB	-5.23	102.49	110.07
1	L	166	ASP	N-CA-CB	-5.23	102.42	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	80	TRP	O-C-N	-5.23	115.84	122.27
1	c	64	ALA	CA-C-N	5.23	127.71	120.29
1	c	64	ALA	C-N-CA	5.23	127.71	120.29
1	m	53	ASN	CA-C-O	5.23	125.98	119.97
1	e	48	THR	CA-CB-OG1	5.23	117.44	109.60
1	T	83	LEU	N-CA-C	5.23	117.06	111.36
1	c	179	GLN	CA-C-N	5.23	127.28	120.28
1	c	179	GLN	C-N-CA	5.23	127.28	120.28
1	d	146	SER	CA-C-N	5.23	126.37	119.84
1	d	146	SER	C-N-CA	5.23	126.37	119.84
1	A	124	ILE	CB-CA-C	-5.22	104.84	110.85
1	E	100	ARG	CG-CD-NE	-5.22	100.51	112.00
1	V	29	GLU	CA-C-O	5.22	126.10	119.78
1	m	154	ARG	CG-CD-NE	-5.22	100.51	112.00
1	d	226	HIS	CA-C-N	5.22	130.06	121.39
1	d	226	HIS	C-N-CA	5.22	130.06	121.39
1	g	123	PRO	N-CA-C	5.22	118.69	110.80
1	L	115	ILE	CA-C-N	5.22	125.89	119.99
1	L	115	ILE	C-N-CA	5.22	125.89	119.99
1	L	118	MET	CA-C-N	-5.22	114.37	122.67
1	L	118	MET	C-N-CA	-5.22	114.37	122.67
1	V	162	ARG	NE-CZ-NH1	-5.22	116.28	121.50
1	W	195	ASN	CA-C-O	-5.22	115.01	120.70
1	Y	87	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	5	39	MET	CA-CB-CG	5.22	124.55	114.10
1	6	218	CYS	N-CA-CB	5.22	119.32	110.49
1	f	74	ASN	CB-CG-OD1	5.22	131.24	120.80
1	h	161	PHE	CB-CG-CD2	5.22	129.58	120.70
1	A	149	SER	O-C-N	-5.22	116.44	123.23
1	T	175	GLU	N-CA-C	5.22	117.88	110.10
1	D	98	GLU	N-CA-C	5.22	116.23	109.65
1	N	62	HIS	CG-CD2-NE2	-5.22	101.98	107.20
1	O	139	ASN	CB-CA-C	-5.22	101.81	110.68
1	R	172	LEU	CA-C-N	5.22	127.54	120.44
1	R	172	LEU	C-N-CA	5.22	127.54	120.44
1	k	25	LYS	O-C-N	-5.22	116.69	122.07
1	B	77	ALA	CA-C-N	5.22	130.27	121.14
1	B	77	ALA	C-N-CA	5.22	130.27	121.14
1	B	120	HIS	N-CA-C	5.22	117.59	110.55
1	6	200	THR	O-C-N	-5.22	116.20	122.15
1	H	35	GLU	CB-CG-CD	5.22	121.47	112.60
1	K	112	GLN	N-CA-C	5.22	116.65	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	53	ASN	OD1-CG-ND2	5.22	127.82	122.60
1	Y	81	ASP	CA-C-N	5.22	127.27	120.28
1	Y	81	ASP	C-N-CA	5.22	127.27	120.28
1	b	77	ALA	N-CA-C	5.22	116.97	111.28
1	k	16	SER	N-CA-CB	5.22	118.51	110.01
1	R	214	MET	N-CA-C	5.21	118.80	112.23
1	k	80	TRP	CB-CA-C	5.21	120.28	110.63
1	d	118	MET	N-CA-C	5.21	117.87	111.82
1	d	133	TRP	CE2-CD2-CE3	5.21	124.01	118.80
1	e	66	MET	N-CA-C	5.21	117.64	111.33
1	e	176	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	Y	24	VAL	O-C-N	-5.21	116.61	121.87
1	6	16	SER	N-CA-CB	5.21	121.13	110.50
1	G	179	GLN	CB-CA-C	-5.21	101.99	110.85
1	K	57	ASN	N-CA-C	-5.21	106.51	112.92
1	N	82	ARG	CG-CD-NE	-5.21	100.54	112.00
1	R	179	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	b	45	GLU	N-CA-C	5.21	117.25	108.96
1	6	143	ARG	O-C-N	-5.21	116.46	122.09
1	6	223	GLY	CA-C-N	5.21	124.83	119.05
1	6	223	GLY	C-N-CA	5.21	124.83	119.05
1	i	199	LYS	CA-C-N	5.21	127.26	120.28
1	i	199	LYS	C-N-CA	5.21	127.26	120.28
1	A	225	GLY	CA-C-N	5.21	128.62	120.75
1	A	225	GLY	C-N-CA	5.21	128.62	120.75
1	L	35	GLU	CA-C-N	-5.21	113.12	121.35
1	L	35	GLU	C-N-CA	-5.21	113.12	121.35
1	5	127	GLY	N-CA-C	5.21	118.94	112.64
1	b	143	ARG	O-C-N	5.21	127.44	122.07
1	c	150	ILE	N-CA-CB	5.21	118.39	110.58
1	l	66	MET	N-CA-C	5.21	116.64	111.07
1	F	58	THR	CA-C-O	5.21	126.29	120.82
1	O	141	ILE	CA-C-O	-5.21	115.85	121.27
1	X	137	GLY	O-C-N	-5.21	116.72	122.24
1	b	4	GLN	CB-CA-C	-5.21	101.61	109.99
1	b	215	MET	O-C-N	-5.21	115.45	122.43
1	c	185	MET	N-CA-CB	-5.21	102.25	110.06
1	i	74	ASN	N-CA-CB	5.21	118.35	110.28
1	k	91	ILE	N-CA-C	5.21	114.80	106.88
1	m	154	ARG	N-CA-C	5.21	117.33	109.41
1	h	157	PRO	N-CA-C	-5.21	107.24	114.27
1	B	67	GLN	N-CA-C	5.21	116.95	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	229	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	P	195	ASN	N-CA-CB	-5.21	101.81	109.98
1	a	53	ASN	N-CA-C	5.21	116.96	111.28
1	e	50	GLN	O-C-N	-5.21	115.46	122.23
1	H	190	LEU	CA-C-N	5.21	127.81	120.42
1	H	190	LEU	C-N-CA	5.21	127.81	120.42
1	i	131	LYS	CA-C-O	-5.21	115.01	120.63
1	k	10	MET	CA-C-O	-5.21	115.83	121.87
1	H	23	TRP	CE3-CZ3-CH2	-5.20	114.33	121.10
1	J	115	ILE	CA-C-N	5.20	125.75	119.98
1	J	115	ILE	C-N-CA	5.20	125.75	119.98
1	K	10	MET	CG-SD-CE	-5.20	89.45	100.90
1	V	90	PRO	CA-C-N	5.20	129.24	120.29
1	V	90	PRO	C-N-CA	5.20	129.24	120.29
1	Z	9	GLN	CG-CD-OE1	5.20	131.21	120.80
1	Z	19	THR	CB-CA-C	-5.20	102.71	110.88
1	5	226	HIS	CG-CD2-NE2	5.20	112.40	107.20
1	e	9	GLN	O-C-N	-5.20	116.54	122.89
1	E	156	GLY	N-CA-C	5.20	122.95	112.34
1	L	166	ASP	CA-CB-CG	-5.20	107.40	112.60
1	W	153	ILE	N-CA-C	5.20	116.73	109.55
1	c	55	MET	O-C-N	-5.20	116.71	122.07
1	e	212	GLU	N-CA-CB	-5.20	102.22	110.28
1	f	198	CYS	N-CA-C	-5.20	105.29	111.69
1	H	227	LYS	N-CA-CB	5.20	117.95	110.20
1	X	51	ASP	O-C-N	-5.20	116.61	122.12
1	Y	109	SER	N-CA-C	5.20	117.37	108.90
1	7	84	HIS	O-C-N	-5.20	115.34	121.32
1	e	71	GLU	CA-C-O	5.20	126.06	120.55
1	e	129	ILE	O-C-N	5.20	127.29	121.94
1	c	45	GLU	CB-CG-CD	5.20	121.44	112.60
1	k	211	LEU	CA-C-N	5.20	127.25	120.28
1	k	211	LEU	C-N-CA	5.20	127.25	120.28
1	C	140	LYS	N-CA-CB	5.20	117.76	110.12
1	H	175	GLU	CB-CG-CD	-5.20	103.77	112.60
1	P	92	GLU	CA-C-N	5.20	126.33	119.84
1	P	92	GLU	C-N-CA	5.20	126.33	119.84
1	U	213	GLU	N-CA-C	-5.20	105.23	112.45
1	5	13	GLN	N-CA-C	-5.20	99.94	108.41
1	a	2	ILE	N-CA-C	5.20	116.67	109.45
1	f	190	LEU	CA-C-O	-5.20	115.36	120.82
1	g	202	LEU	N-CA-C	5.20	121.87	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	170	LYS	N-CA-C	5.20	117.02	111.36
1	M	74	ASN	CA-C-O	5.19	125.92	120.42
1	N	213	GLU	CB-CG-CD	-5.19	103.77	112.60
1	F	7	GLN	N-CA-C	5.19	118.56	111.39
1	F	166	ASP	N-CA-C	-5.19	105.62	111.28
1	M	129	ILE	CB-CA-C	-5.19	105.32	111.97
1	V	57	ASN	CA-CB-CG	-5.19	107.41	112.60
1	X	115	ILE	CB-CA-C	5.19	120.21	112.16
1	Y	176	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	c	37	ILE	CA-C-O	-5.19	112.99	119.95
1	c	133	TRP	CE2-CD2-CE3	5.19	123.99	118.80
1	e	137	GLY	CA-C-O	-5.19	115.40	120.75
1	h	230	VAL	CA-CB-CG2	5.19	119.23	110.40
1	D	230	VAL	N-CA-C	5.19	115.79	109.30
1	M	190	LEU	CA-C-N	5.19	128.81	120.30
1	M	190	LEU	C-N-CA	5.19	128.81	120.30
1	Y	74	ASN	CA-CB-CG	-5.19	107.41	112.60
1	E	155	GLN	CA-CB-CG	5.19	124.48	114.10
1	P	84	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	b	68	MET	CA-C-O	5.19	126.05	120.55
1	k	150	ILE	N-CA-C	5.19	116.53	110.62
1	O	14	ALA	O-C-N	-5.19	116.83	123.06
1	U	161	PHE	O-C-N	-5.19	116.62	122.12
1	V	117	TRP	CA-C-N	5.19	129.38	120.72
1	V	117	TRP	C-N-CA	5.19	129.38	120.72
1	Z	11	VAL	O-C-N	-5.19	117.09	123.00
1	k	228	ALA	O-C-N	-5.19	114.71	122.39
1	g	37	ILE	N-CA-C	-5.19	106.12	112.35
1	S	120	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	X	118	MET	CG-SD-CE	-5.19	89.49	100.90
1	H	54	THR	O-C-N	-5.18	116.62	122.12
1	H	195	ASN	CB-CA-C	5.18	119.10	109.51
1	K	62	HIS	CB-CG-ND1	-5.18	114.92	122.70
1	Q	222	GLY	N-CA-C	5.18	119.21	112.68
1	6	112	GLN	CA-C-O	5.18	125.93	119.97
1	f	38	PRO	CA-CB-CG	-5.18	94.65	104.50
1	G	168	PHE	CA-C-O	5.18	126.04	120.55
1	Y	193	ASN	N-CA-CB	-5.18	102.82	110.49
1	5	211	LEU	CA-C-O	-5.18	115.06	120.55
1	b	142	VAL	CA-CB-CG2	-5.18	101.59	110.40
1	d	221	VAL	N-CA-CB	-5.18	103.16	110.26
1	C	195	ASN	O-C-N	5.18	126.30	121.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	184	TRP	N-CA-C	5.18	116.61	111.07
1	5	13	GLN	CB-CG-CD	-5.18	103.79	112.60
1	a	12	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	f	88	ALA	O-C-N	-5.18	116.09	122.05
1	G	130	TYR	CB-CG-CD2	5.18	128.57	120.80
1	O	2	ILE	CA-C-O	5.18	125.78	120.39
1	Q	166	ASP	N-CA-C	5.18	117.33	111.11
1	T	105	ALA	N-CA-CB	-5.18	102.96	110.47
1	a	187	GLU	CA-C-O	5.18	126.77	121.07
1	d	143	ARG	NH1-CZ-NH2	-5.18	112.56	119.30
1	e	176	GLN	CA-C-N	5.18	128.57	120.75
1	e	176	GLN	C-N-CA	5.18	128.57	120.75
1	Y	228	ALA	N-CA-C	5.18	118.06	111.69
1	c	164	TYR	CA-C-O	-5.18	115.37	120.70
1	B	71	GLU	CA-C-O	5.18	125.95	120.10
1	E	88	ALA	O-C-N	-5.18	115.90	122.27
1	E	178	SER	N-CA-C	5.18	116.97	110.24
1	K	135	ILE	O-C-N	-5.18	115.95	121.80
1	Z	87	HIS	N-CA-C	5.18	119.65	112.45
1	c	120	HIS	CA-CB-CG	5.18	118.98	113.80
1	d	148	THR	CA-C-N	5.18	130.30	123.05
1	d	148	THR	C-N-CA	5.18	130.30	123.05
1	f	150	ILE	CA-C-N	5.18	127.73	120.28
1	f	150	ILE	C-N-CA	5.18	127.73	120.28
1	D	179	GLN	CA-C-O	5.17	126.04	120.55
1	F	35	GLU	CB-CG-CD	-5.17	103.80	112.60
1	K	168	PHE	N-CA-CB	5.17	117.82	110.16
1	T	5	ASN	CA-C-N	5.17	129.97	122.36
1	T	5	ASN	C-N-CA	5.17	129.97	122.36
1	U	120	HIS	N-CA-C	5.17	121.82	110.80
1	U	201	ILE	CA-C-N	5.17	127.21	120.28
1	U	201	ILE	C-N-CA	5.17	127.21	120.28
1	Y	201	ILE	CA-C-N	5.17	127.21	120.28
1	Y	201	ILE	C-N-CA	5.17	127.21	120.28
1	Z	5	ASN	CA-C-N	5.17	127.64	120.29
1	Z	5	ASN	C-N-CA	5.17	127.64	120.29
1	a	8	GLY	CA-C-O	5.17	125.44	119.13
1	H	181	VAL	N-CA-C	5.17	115.94	110.72
1	K	107	THR	CA-C-O	5.17	125.90	120.42
1	U	156	GLY	CA-C-O	-5.17	114.12	121.52
1	F	171	THR	CA-C-N	5.17	127.21	120.28
1	F	171	THR	C-N-CA	5.17	127.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	161	PHE	N-CA-C	5.17	116.60	111.07
1	M	165	VAL	CA-CB-CG1	-5.17	101.61	110.40
1	T	12	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	U	26	VAL	CB-CA-C	-5.17	105.16	112.14
1	W	219	GLN	N-CA-CB	5.17	119.73	111.20
1	5	43	LEU	N-CA-C	-5.17	105.76	111.71
1	e	167	ARG	N-CA-C	5.17	116.60	111.07
1	W	186	THR	O-C-N	-5.17	115.51	122.23
1	k	62	HIS	CB-CG-CD2	-5.17	124.48	131.20
1	l	62	HIS	CA-CB-CG	-5.17	108.63	113.80
1	O	230	VAL	N-CA-C	-5.17	107.80	113.43
1	V	37	ILE	N-CA-CB	5.17	118.45	111.21
1	W	10	MET	N-CA-C	-5.17	108.73	114.62
1	W	62	HIS	N-CA-CB	5.17	119.01	111.62
1	Z	24	VAL	CA-C-N	5.17	127.47	120.44
1	Z	24	VAL	C-N-CA	5.17	127.47	120.44
1	b	49	PRO	N-CA-CB	5.17	109.09	103.30
1	f	196	PRO	N-CA-C	5.17	121.31	113.81
1	B	153	ILE	CA-CB-CG1	5.17	119.18	110.40
1	K	80	TRP	CD2-CE3-CZ3	-5.17	111.88	118.60
1	O	100	ARG	CD-NE-CZ	5.17	131.63	124.40
1	T	12	HIS	O-C-N	-5.17	117.16	123.10
1	l	95	GLN	CA-C-N	5.17	131.41	121.54
1	l	95	GLN	C-N-CA	5.17	131.41	121.54
1	m	9	GLN	CB-CG-CD	5.17	121.38	112.60
1	h	200	THR	CA-CB-CG2	5.17	119.28	110.50
1	D	35	GLU	CA-C-N	5.16	127.53	120.46
1	D	35	GLU	C-N-CA	5.16	127.53	120.46
1	Z	51	ASP	N-CA-C	5.16	116.91	111.28
1	i	1	PRO	O-C-N	-5.16	114.74	123.00
1	E	26	VAL	CB-CA-C	-5.16	105.17	112.14
1	Q	104	ILE	O-C-N	5.16	126.88	121.87
1	k	176	GLN	CA-C-O	5.16	125.27	119.18
1	B	69	LEU	CA-C-N	5.16	127.51	120.54
1	B	69	LEU	C-N-CA	5.16	127.51	120.54
1	D	104	ILE	CA-C-N	5.16	127.71	120.28
1	D	104	ILE	C-N-CA	5.16	127.71	120.28
1	F	25	LYS	N-CA-C	5.16	116.98	111.36
1	a	18	ARG	CD-NE-CZ	-5.16	117.17	124.40
1	F	216	THR	N-CA-C	5.16	119.72	113.38
1	G	99	PRO	CA-C-N	5.16	130.27	121.29
1	G	99	PRO	C-N-CA	5.16	130.27	121.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	137	GLY	N-CA-C	5.16	118.92	112.73
1	K	80	TRP	CE2-CD2-CE3	5.16	123.96	118.80
1	T	29	GLU	CA-C-O	5.16	125.89	120.42
1	U	217	ALA	CA-C-N	5.16	131.39	121.54
1	U	217	ALA	C-N-CA	5.16	131.39	121.54
1	c	170	LYS	CA-C-N	5.16	127.61	120.29
1	c	170	LYS	C-N-CA	5.16	127.61	120.29
1	U	227	LYS	CA-C-O	5.16	125.67	119.59
1	j	23	TRP	CG-CD2-CE3	-5.16	128.74	133.90
1	E	154	ARG	O-C-N	-5.16	116.93	123.01
1	J	103	ASP	O-C-N	-5.16	116.27	122.15
1	N	163	ASP	CA-C-N	5.16	127.70	120.28
1	N	163	ASP	C-N-CA	5.16	127.70	120.28
1	Q	201	ILE	N-CA-C	-5.16	105.38	111.00
1	T	196	PRO	CA-C-N	5.16	127.50	120.54
1	T	196	PRO	C-N-CA	5.16	127.50	120.54
1	Y	122	PRO	CA-C-N	5.16	126.28	119.84
1	Y	122	PRO	C-N-CA	5.16	126.28	119.84
1	a	124	ILE	N-CA-CB	5.16	117.57	111.23
1	g	105	ALA	O-C-N	-5.16	114.12	122.42
1	J	77	ALA	CA-C-N	5.15	127.19	120.28
1	J	77	ALA	C-N-CA	5.15	127.19	120.28
1	N	188	THR	CA-CB-OG1	5.15	117.33	109.60
1	S	187	GLU	N-CA-C	5.15	116.98	111.36
1	U	55	MET	N-CA-C	5.15	119.82	111.37
1	b	96	MET	CG-SD-CE	-5.15	89.56	100.90
1	c	22	ALA	N-CA-C	5.15	116.98	111.36
1	L	71	GLU	N-CA-C	5.15	116.58	111.07
1	V	33	SER	CA-C-N	5.15	126.28	119.84
1	V	33	SER	C-N-CA	5.15	126.28	119.84
1	5	216	THR	CA-CB-OG1	5.15	117.33	109.60
1	b	156	GLY	CA-C-N	5.15	124.95	119.28
1	b	156	GLY	C-N-CA	5.15	124.95	119.28
1	h	192	GLN	CB-CA-C	-5.15	102.79	110.88
1	A	217	ALA	CA-C-O	-5.15	115.64	121.72
1	H	124	ILE	CA-C-N	5.15	126.28	119.84
1	H	124	ILE	C-N-CA	5.15	126.28	119.84
1	K	144	MET	CG-SD-CE	-5.15	89.57	100.90
1	R	127	GLY	O-C-N	-5.15	116.00	122.70
1	Y	62	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	Y	213	GLU	CB-CA-C	5.15	118.97	110.88
1	a	55	MET	CG-SD-CE	-5.15	89.57	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	26	VAL	CA-C-O	-5.15	115.20	120.71
1	m	9	GLN	CG-CD-NE2	-5.15	108.67	116.40
1	A	178	SER	N-CA-CB	5.15	117.61	110.04
1	F	130	TYR	N-CA-C	5.15	116.89	111.28
1	I	27	VAL	O-C-N	-5.15	116.53	121.83
1	K	126	VAL	CA-C-N	5.15	125.66	120.00
1	K	126	VAL	C-N-CA	5.15	125.66	120.00
1	W	136	LEU	CA-C-N	5.15	126.58	120.14
1	W	136	LEU	C-N-CA	5.15	126.58	120.14
1	m	148	THR	CA-C-O	5.15	124.34	118.47
1	h	114	GLN	N-CA-C	5.15	116.89	111.28
1	O	155	GLN	CA-C-N	5.15	129.95	121.87
1	O	155	GLN	C-N-CA	5.15	129.95	121.87
1	P	112	GLN	N-CA-C	5.15	116.89	111.28
1	b	202	LEU	CA-C-N	5.15	127.60	120.29
1	b	202	LEU	C-N-CA	5.15	127.60	120.29
1	j	167	ARG	NE-CZ-NH2	5.15	123.83	119.20
1	l	47	ALA	N-CA-C	5.15	117.76	110.50
1	m	184	TRP	CG-CD2-CE3	-5.15	128.75	133.90
1	h	13	GLN	O-C-N	-5.15	117.22	123.03
1	B	30	LYS	CA-C-N	5.14	129.86	122.35
1	B	30	LYS	C-N-CA	5.14	129.86	122.35
1	S	48	THR	CA-C-N	5.14	125.19	119.32
1	S	48	THR	C-N-CA	5.14	125.19	119.32
1	a	139	ASN	CA-C-N	5.14	127.17	120.28
1	a	139	ASN	C-N-CA	5.14	127.17	120.28
1	j	154	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	k	121	ASN	N-CA-CB	-5.14	100.60	110.27
1	m	148	THR	O-C-N	-5.14	115.31	121.64
1	h	194	ALA	CA-C-O	-5.14	115.74	121.81
1	A	140	LYS	N-CA-C	5.14	116.57	111.07
1	C	131	LYS	CA-C-N	5.14	127.17	120.28
1	C	131	LYS	C-N-CA	5.14	127.17	120.28
1	D	94	GLY	O-C-N	-5.14	116.86	122.41
1	D	211	LEU	CB-CA-C	-5.14	101.94	110.68
1	X	211	LEU	CA-C-N	5.14	127.42	120.38
1	X	211	LEU	C-N-CA	5.14	127.42	120.38
1	c	48	THR	CA-CB-OG1	5.14	117.31	109.60
1	e	176	GLN	CA-C-O	5.14	125.44	119.32
1	H	210	THR	CA-CB-OG1	5.14	117.31	109.60
1	J	82	ARG	CA-C-N	5.14	127.59	120.29
1	J	82	ARG	C-N-CA	5.14	127.59	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	126	VAL	CA-C-N	5.14	125.69	119.98
1	L	126	VAL	C-N-CA	5.14	125.69	119.98
1	B	131	LYS	CA-C-N	5.14	127.42	120.38
1	B	131	LYS	C-N-CA	5.14	127.42	120.38
1	G	186	THR	O-C-N	-5.14	116.29	122.15
1	N	54	THR	CA-C-O	5.14	126.40	120.90
1	T	180	GLU	CA-C-N	5.14	127.72	120.42
1	T	180	GLU	C-N-CA	5.14	127.72	120.42
1	V	55	MET	N-CA-CB	-5.14	102.56	110.01
1	l	28	GLU	O-C-N	-5.14	116.67	122.12
1	e	199	LYS	N-CA-C	5.14	116.88	111.28
1	h	56	LEU	CA-C-O	-5.14	115.61	120.90
1	R	59	VAL	O-C-N	-5.14	117.08	122.83
1	Y	25	LYS	CA-C-N	5.14	129.13	120.29
1	Y	25	LYS	C-N-CA	5.14	129.13	120.29
1	A	39	MET	N-CA-CB	-5.14	102.57	110.12
1	H	226	HIS	CA-C-O	-5.14	112.54	119.11
1	O	194	ALA	CA-C-O	5.14	126.91	121.05
1	Q	32	PHE	CA-CB-CG	-5.14	108.66	113.80
1	S	68	MET	CA-C-O	5.14	125.99	120.55
1	V	28	GLU	CA-C-O	-5.14	115.43	120.82
1	W	73	ILE	CA-CB-CG1	5.14	119.13	110.40
1	c	9	GLN	CB-CG-CD	5.14	121.33	112.60
1	7	118	MET	O-C-N	-5.14	116.67	122.12
1	g	144	MET	N-CA-C	5.14	116.88	111.28
1	M	48	THR	N-CA-CB	5.13	116.23	109.55
1	O	95	GLN	CG-CD-OE1	5.13	131.07	120.80
1	Q	92	GLU	CB-CA-C	-5.13	103.34	110.37
1	6	23	TRP	N-CA-C	5.13	117.28	111.02
1	m	133	TRP	CA-C-N	5.13	127.50	120.46
1	m	133	TRP	C-N-CA	5.13	127.50	120.46
1	7	118	MET	N-CA-C	5.13	117.54	111.33
1	7	183	ASN	CB-CG-OD1	5.13	131.07	120.80
1	g	17	PRO	O-C-N	-5.13	115.71	122.64
1	A	173	ARG	CB-CG-CD	5.13	123.10	111.30
1	A	207	PRO	CA-C-O	-5.13	111.82	119.00
1	E	84	HIS	CB-CA-C	-5.13	103.00	109.31
1	O	93	PRO	O-C-N	-5.13	116.64	122.18
1	P	104	ILE	N-CA-CB	5.13	116.21	110.51
1	j	178	SER	N-CA-C	-5.13	102.47	110.42
1	h	159	GLU	CA-C-O	-5.13	115.00	120.23
1	P	1	PRO	N-CA-CB	5.13	108.64	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	40	PHE	O-C-N	-5.13	116.75	122.09
1	i	226	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	d	56	LEU	CA-C-O	5.13	125.87	119.97
1	E	213	GLU	O-C-N	5.13	129.36	122.49
1	H	52	LEU	O-C-N	-5.13	115.56	122.43
1	Q	112	GLN	CA-C-O	5.13	125.67	119.11
1	S	5	ASN	CA-C-N	5.13	127.15	120.28
1	S	5	ASN	C-N-CA	5.13	127.15	120.28
1	5	81	ASP	CA-CB-CG	5.13	117.73	112.60
1	b	195	ASN	N-CA-CB	5.13	117.60	110.11
1	H	187	GLU	CA-C-O	5.13	125.85	120.42
1	L	190	LEU	O-C-N	-5.13	116.70	122.03
1	M	35	GLU	N-CA-CB	-5.13	102.90	110.49
1	Q	24	VAL	CA-C-N	5.13	127.15	120.28
1	Q	24	VAL	C-N-CA	5.13	127.15	120.28
1	R	181	VAL	CA-C-N	5.13	128.10	120.31
1	R	181	VAL	C-N-CA	5.13	128.10	120.31
1	S	195	ASN	N-CA-C	5.13	116.97	109.84
1	Z	69	LEU	O-C-N	-5.13	116.79	122.07
1	m	97	ARG	CA-C-O	-5.13	116.11	121.55
1	7	181	VAL	O-C-N	-5.13	116.55	121.83
1	D	152	ASP	CA-C-N	5.12	128.03	120.91
1	D	152	ASP	C-N-CA	5.12	128.03	120.91
1	P	131	LYS	CB-CA-C	-5.12	102.28	110.79
1	d	1	PRO	CA-C-N	5.12	130.13	123.06
1	d	1	PRO	C-N-CA	5.12	130.13	123.06
1	g	168	PHE	O-C-N	-5.12	116.76	122.09
1	h	76	GLU	CA-C-N	5.12	127.42	120.65
1	h	76	GLU	C-N-CA	5.12	127.42	120.65
1	A	175	GLU	O-C-N	-5.12	116.24	123.11
1	A	182	LYS	O-C-N	-5.12	115.97	122.27
1	B	42	ALA	N-CA-C	5.12	116.94	111.36
1	G	209	ALA	O-C-N	-5.12	116.51	122.81
1	I	16	SER	N-CA-C	5.12	116.86	109.48
1	O	204	ALA	CA-C-O	5.12	125.84	119.79
1	Q	38	PRO	CA-N-CD	-5.12	104.83	112.00
1	S	96	MET	CG-SD-CE	-5.12	89.63	100.90
1	l	184	TRP	CH2-CZ2-CE2	5.12	124.16	117.50
1	H	120	HIS	O-C-N	-5.12	115.78	122.59
1	U	144	MET	CA-C-O	-5.12	115.12	120.55
1	X	89	GLY	CA-C-O	-5.12	114.20	121.52
1	X	92	GLU	N-CA-CB	-5.12	104.03	111.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	162	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	Y	86	VAL	CA-CB-CG2	-5.12	101.69	110.40
1	k	23	TRP	O-C-N	-5.12	116.80	122.07
1	C	23	TRP	CE2-CD2-CE3	5.12	123.92	118.80
1	F	121	ASN	O-C-N	-5.12	114.94	121.29
1	K	120	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	R	141	ILE	CA-C-N	5.12	127.47	120.46
1	R	141	ILE	C-N-CA	5.12	127.47	120.46
1	V	188	THR	CA-CB-OG1	5.12	117.28	109.60
1	W	62	HIS	CA-CB-CG	-5.12	108.68	113.80
1	f	57	ASN	O-C-N	-5.12	114.96	122.43
1	J	176	GLN	CA-C-N	5.12	131.31	121.54
1	J	176	GLN	C-N-CA	5.12	131.31	121.54
1	a	69	LEU	N-CA-CB	-5.12	102.04	109.82
1	B	142	VAL	CA-C-N	5.12	127.09	120.44
1	B	142	VAL	C-N-CA	5.12	127.09	120.44
1	C	59	VAL	N-CA-CB	-5.12	105.14	110.82
1	G	178	SER	CB-CA-C	-5.12	99.06	109.65
1	H	229	ARG	CA-C-O	5.12	126.78	121.15
1	I	27	VAL	N-CA-CB	5.12	118.25	110.58
1	K	119	THR	CB-CA-C	-5.12	101.91	110.56
1	Q	10	MET	N-CA-C	5.12	116.94	111.36
1	T	62	HIS	ND1-CG-CD2	5.12	111.22	106.10
1	Z	36	VAL	N-CA-C	5.12	115.78	110.82
1	6	190	LEU	CA-C-O	5.12	125.84	120.42
1	j	195	ASN	CB-CA-C	5.12	117.85	109.46
1	e	91	ILE	CA-CB-CG1	5.12	119.10	110.40
1	e	163	ASP	CA-CB-CG	-5.12	107.48	112.60
1	B	35	GLU	CA-C-N	5.11	127.46	120.46
1	B	35	GLU	C-N-CA	5.11	127.46	120.46
1	C	15	ILE	CA-C-N	5.11	127.60	120.65
1	C	15	ILE	C-N-CA	5.11	127.60	120.65
1	J	182	LYS	CA-C-N	5.11	127.09	120.44
1	J	182	LYS	C-N-CA	5.11	127.09	120.44
1	T	66	MET	O-C-N	-5.11	116.24	122.22
1	Y	59	VAL	CA-CB-CG2	5.11	119.09	110.40
1	j	39	MET	CA-C-O	5.11	125.97	120.55
1	k	219	GLN	CG-CD-OE1	5.11	131.03	120.80
1	m	202	LEU	N-CA-C	5.11	116.85	111.28
1	g	38	PRO	N-CA-CB	5.11	108.94	103.52
1	I	35	GLU	N-CA-C	5.11	119.36	113.18
1	L	77	ALA	CA-C-N	5.11	127.55	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	77	ALA	C-N-CA	5.11	127.55	120.29
1	S	29	GLU	CB-CA-C	-5.11	102.82	110.90
1	i	79	GLU	N-CA-C	-5.11	105.79	112.23
1	i	192	GLN	N-CA-CB	5.11	117.48	110.07
1	7	216	THR	N-CA-CB	5.11	118.04	110.53
1	B	86	VAL	CA-CB-CG2	-5.11	101.71	110.40
1	H	176	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	L	204	ALA	N-CA-CB	5.11	117.81	110.20
1	N	194	ALA	N-CA-C	5.11	117.12	110.43
1	a	203	LYS	N-CA-C	5.11	116.85	111.28
1	7	2	ILE	N-CA-CB	5.11	116.83	111.00
1	e	93	PRO	CA-C-O	-5.11	115.84	122.13
1	B	28	GLU	CA-C-N	5.11	127.13	120.28
1	B	28	GLU	C-N-CA	5.11	127.13	120.28
1	L	224	PRO	CB-CA-C	-5.11	105.20	111.64
1	U	87	HIS	CB-CG-ND1	5.11	130.36	122.70
1	c	165	VAL	N-CA-CB	5.11	117.49	110.54
1	k	220	GLY	CA-C-N	5.11	130.06	123.11
1	k	220	GLY	C-N-CA	5.11	130.06	123.11
1	P	49	PRO	CA-C-N	5.11	129.31	120.58
1	P	49	PRO	C-N-CA	5.11	129.31	120.58
1	Q	141	ILE	CA-C-O	-5.11	114.95	120.47
1	T	23	TRP	CA-C-N	5.11	128.54	120.47
1	T	23	TRP	C-N-CA	5.11	128.54	120.47
1	V	153	ILE	O-C-N	-5.11	116.19	122.57
1	W	173	ARG	N-CA-C	5.11	116.53	111.07
1	6	166	ASP	O-C-N	-5.11	116.81	122.07
1	e	117	TRP	CE2-CD2-CE3	5.11	123.91	118.80
1	g	111	LEU	CA-C-N	5.11	127.38	120.38
1	g	111	LEU	C-N-CA	5.11	127.38	120.38
1	A	167	ARG	N-CA-C	5.11	116.92	111.36
1	A	187	GLU	CA-C-O	5.11	126.01	120.55
1	B	19	THR	CA-C-N	5.11	127.54	120.29
1	B	19	THR	C-N-CA	5.11	127.54	120.29
1	J	21	ASN	N-CA-C	5.11	117.51	111.33
1	S	112	GLN	N-CA-C	5.11	117.51	111.33
1	V	26	VAL	N-CA-C	5.11	115.33	110.53
1	j	83	LEU	N-CA-C	5.11	118.66	112.23
1	m	120	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	e	191	VAL	N-CA-CB	-5.11	104.58	110.55
1	h	139	ASN	CB-CG-OD1	5.11	131.01	120.80
1	Z	186	THR	CB-CA-C	-5.10	102.32	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	51	ASP	O-C-N	-5.10	116.33	122.15
1	c	120	HIS	O-C-N	-5.10	116.78	122.75
1	j	186	THR	O-C-N	-5.10	115.99	122.27
1	A	2	ILE	CA-C-N	5.10	130.27	122.92
1	A	2	ILE	C-N-CA	5.10	130.27	122.92
1	L	103	ASP	N-CA-C	5.10	117.97	111.69
1	Y	16	SER	N-CA-C	5.10	117.12	110.08
1	Y	97	ARG	O-C-N	-5.10	116.59	122.87
1	k	74	ASN	CA-CB-CG	-5.10	107.50	112.60
1	e	94	GLY	N-CA-C	-5.10	108.24	115.43
1	B	156	GLY	CA-C-N	5.10	124.79	119.64
1	B	156	GLY	C-N-CA	5.10	124.79	119.64
1	D	63	GLN	O-C-N	-5.10	115.42	122.46
1	H	68	MET	CA-C-N	5.10	127.07	120.44
1	H	68	MET	C-N-CA	5.10	127.07	120.44
1	M	15	ILE	CA-CB-CG2	5.10	119.17	110.50
1	M	98	GLU	N-CA-C	5.10	115.46	109.60
1	S	131	LYS	N-CA-CB	-5.10	102.37	110.28
1	S	191	VAL	N-CA-C	-5.10	105.41	112.50
1	X	33	SER	CA-C-N	5.10	125.39	119.47
1	X	33	SER	C-N-CA	5.10	125.39	119.47
1	X	98	GLU	N-CA-C	5.10	116.97	109.42
1	5	189	LEU	N-CA-CB	5.10	117.71	110.16
1	b	108	THR	CB-CA-C	-5.10	102.10	110.72
1	c	6	LEU	CA-C-N	5.10	127.36	120.38
1	c	6	LEU	C-N-CA	5.10	127.36	120.38
1	h	3	VAL	CA-C-N	5.10	130.92	121.94
1	h	3	VAL	C-N-CA	5.10	130.92	121.94
1	B	43	LEU	CB-CA-C	-5.10	101.20	110.63
1	C	133	TRP	CG-CD2-CE3	-5.10	128.80	133.90
1	G	129	ILE	CA-C-N	5.10	127.53	120.29
1	G	129	ILE	C-N-CA	5.10	127.53	120.29
1	J	107	THR	N-CA-CB	5.10	118.09	110.19
1	M	35	GLU	CB-CG-CD	5.10	121.26	112.60
1	Q	120	HIS	O-C-N	-5.10	116.72	122.68
1	X	133	TRP	CD2-CE2-CZ2	-5.10	117.30	122.40
1	b	121	ASN	CA-CB-CG	-5.10	107.50	112.60
1	d	205	LEU	CA-C-N	5.10	129.87	121.87
1	d	205	LEU	C-N-CA	5.10	129.87	121.87
1	h	135	ILE	CB-CG1-CD1	5.10	124.50	113.80
1	B	3	VAL	N-CA-C	5.10	115.32	110.53
1	N	68	MET	N-CA-C	5.10	117.57	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	150	ILE	O-C-N	-5.10	116.04	121.80
1	Q	23	TRP	N-CA-C	5.09	116.52	111.07
1	R	51	ASP	CA-CB-CG	5.09	117.69	112.60
1	R	193	ASN	N-CA-C	-5.09	106.31	112.88
1	j	13	GLN	CA-CB-CG	5.09	124.29	114.10
1	k	200	THR	CB-CA-C	-5.09	102.33	110.79
1	l	49	PRO	CA-C-N	5.09	127.11	120.28
1	l	49	PRO	C-N-CA	5.09	127.11	120.28
1	A	118	MET	N-CA-CB	5.09	118.17	110.28
1	A	212	GLU	N-CA-CB	5.09	119.10	110.49
1	5	48	THR	N-CA-CB	5.09	116.81	109.78
1	B	69	LEU	CB-CA-C	5.09	118.87	110.88
1	E	72	THR	CA-C-N	5.09	127.44	120.46
1	E	72	THR	C-N-CA	5.09	127.44	120.46
1	I	92	GLU	CA-C-N	5.09	125.02	119.78
1	I	92	GLU	C-N-CA	5.09	125.02	119.78
1	R	189	LEU	N-CA-CB	5.09	117.45	110.07
1	T	31	ALA	O-C-N	-5.09	115.82	122.59
1	V	39	MET	CG-SD-CE	-5.09	89.70	100.90
1	V	183	ASN	CA-CB-CG	-5.09	107.51	112.60
1	b	136	LEU	N-CA-C	5.09	116.83	111.28
1	6	107	THR	CA-C-O	5.09	125.82	120.42
1	j	1	PRO	CB-CA-C	5.09	119.77	110.10
1	7	212	GLU	CA-C-O	5.09	125.85	120.10
1	f	23	TRP	CA-C-O	-5.09	115.15	120.55
1	f	166	ASP	CA-C-N	-5.09	111.87	120.58
1	f	166	ASP	C-N-CA	-5.09	111.87	120.58
1	h	113	GLU	O-C-N	-5.09	115.61	122.23
1	E	21	ASN	CA-C-N	5.09	128.05	120.31
1	E	21	ASN	C-N-CA	5.09	128.05	120.31
1	G	101	GLY	CA-C-O	5.09	126.50	121.00
1	J	201	ILE	O-C-N	-5.09	116.93	121.87
1	L	19	THR	N-CA-C	-5.09	105.81	111.36
1	R	162	ARG	O-C-N	-5.09	116.72	122.12
1	T	103	ASP	N-CA-C	5.09	116.91	111.36
1	j	103	ASP	N-CA-C	5.09	116.83	111.28
1	m	67	GLN	O-C-N	-5.09	116.27	122.22
1	h	148	THR	N-CA-C	5.09	116.54	108.96
1	O	9	GLN	CA-C-N	5.09	128.09	120.87
1	O	9	GLN	C-N-CA	5.09	128.09	120.87
1	U	85	PRO	N-CA-CB	-5.09	98.88	103.36
1	6	214	MET	O-C-N	-5.09	116.35	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	75	GLU	CA-C-O	-5.09	115.48	120.82
1	F	63	GLN	OE1-CD-NE2	5.09	127.69	122.60
1	V	100	ARG	CG-CD-NE	-5.09	100.81	112.00
1	Y	211	LEU	CA-C-N	5.09	127.10	120.28
1	Y	211	LEU	C-N-CA	5.09	127.10	120.28
1	k	23	TRP	CA-CB-CG	5.09	123.26	113.60
1	e	21	ASN	OD1-CG-ND2	5.09	127.69	122.60
1	e	201	ILE	CA-C-N	5.09	127.10	120.28
1	e	201	ILE	C-N-CA	5.09	127.10	120.28
1	C	113	GLU	CA-C-N	5.08	127.36	120.44
1	C	113	GLU	C-N-CA	5.08	127.36	120.44
1	L	206	GLY	CA-C-N	5.08	126.20	119.84
1	L	206	GLY	C-N-CA	5.08	126.20	119.84
1	P	145	TYR	CA-C-O	5.08	125.51	119.56
1	7	41	SER	N-CA-CB	-5.08	102.47	110.30
1	d	67	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	B	128	GLU	O-C-N	-5.08	115.62	122.23
1	D	19	THR	CA-C-O	5.08	125.94	120.55
1	N	76	GLU	CA-C-N	5.08	127.09	120.28
1	N	76	GLU	C-N-CA	5.08	127.09	120.28
1	N	201	ILE	CA-C-O	-5.08	115.27	120.71
1	S	42	ALA	CA-C-N	5.08	127.51	120.29
1	S	42	ALA	C-N-CA	5.08	127.51	120.29
1	X	74	ASN	N-CA-CB	5.08	118.16	110.28
1	5	90	PRO	N-CD-CG	5.08	110.83	103.20
1	a	74	ASN	CA-C-O	5.08	125.84	120.10
1	a	100	ARG	NH1-CZ-NH2	5.08	125.91	119.30
1	6	178	SER	O-C-N	-5.08	116.45	122.65
1	m	193	ASN	CA-CB-CG	-5.08	107.52	112.60
1	7	209	ALA	N-CA-C	5.08	117.09	110.53
1	G	111	LEU	N-CA-CB	-5.08	102.65	110.12
1	K	130	TYR	O-C-N	-5.08	116.28	122.22
1	T	121	ASN	O-C-N	-5.08	116.50	121.38
1	b	196	PRO	CA-C-N	5.08	127.05	120.44
1	b	196	PRO	C-N-CA	5.08	127.05	120.44
1	c	84	HIS	CA-CB-CG	-5.08	108.72	113.80
1	6	201	ILE	O-C-N	-5.08	116.93	121.91
1	g	80	TRP	O-C-N	-5.08	116.81	122.09
1	Z	145	TYR	CA-C-N	5.08	127.56	120.65
1	Z	145	TYR	C-N-CA	5.08	127.56	120.65
1	a	207	PRO	CA-C-O	5.08	126.11	119.00
1	a	209	ALA	O-C-N	-5.08	116.65	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	31	ALA	CA-C-N	5.08	129.57	122.36
1	B	31	ALA	C-N-CA	5.08	129.57	122.36
1	C	201	ILE	CB-CA-C	-5.08	105.28	112.14
1	E	53	ASN	O-C-N	-5.08	116.36	122.15
1	F	128	GLU	CA-C-O	5.08	126.33	120.90
1	V	57	ASN	CA-C-N	5.08	127.08	120.28
1	V	57	ASN	C-N-CA	5.08	127.08	120.28
1	W	15	ILE	O-C-N	-5.08	117.32	122.75
1	5	118	MET	N-CA-CB	5.08	117.77	110.20
1	7	167	ARG	NH1-CZ-NH2	-5.08	112.70	119.30
1	g	50	GLN	CA-C-N	5.08	127.09	120.28
1	g	50	GLN	C-N-CA	5.08	127.09	120.28
1	h	191	VAL	CA-C-N	5.08	127.04	120.44
1	h	191	VAL	C-N-CA	5.08	127.04	120.44
1	E	2	ILE	CA-CB-CG2	-5.08	101.87	110.50
1	H	180	GLU	O-C-N	-5.08	116.74	122.12
1	L	33	SER	CA-C-O	-5.08	114.89	120.17
1	H	155	GLN	O-C-N	-5.08	117.10	123.04
1	Q	71	GLU	CA-C-N	5.08	127.39	120.54
1	Q	71	GLU	C-N-CA	5.08	127.39	120.54
1	S	215	MET	O-C-N	-5.08	115.02	122.43
1	U	172	LEU	O-C-N	-5.08	116.74	122.12
1	W	28	GLU	CB-CA-C	-5.08	101.41	110.70
1	5	114	GLN	CA-C-N	5.08	128.49	120.47
1	5	114	GLN	C-N-CA	5.08	128.49	120.47
1	a	62	HIS	N-CA-CB	5.08	119.40	111.84
1	b	36	VAL	N-CA-C	5.08	115.30	110.53
1	F	62	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	G	195	ASN	CA-CB-CG	5.07	117.67	112.60
1	M	69	LEU	CA-C-O	5.07	125.93	120.55
1	P	195	ASN	CA-CB-CG	5.07	117.67	112.60
1	Q	131	LYS	CA-CB-CG	5.07	124.25	114.10
1	c	159	GLU	CA-C-N	5.07	126.18	119.84
1	c	159	GLU	C-N-CA	5.07	126.18	119.84
1	i	40	PHE	O-C-N	-5.07	116.37	122.15
1	j	71	GLU	O-C-N	-5.07	116.28	122.11
1	l	69	LEU	CA-C-N	5.07	127.04	120.44
1	l	69	LEU	C-N-CA	5.07	127.04	120.44
1	f	175	GLU	CA-CB-CG	5.07	124.25	114.10
1	E	37	ILE	CA-C-O	5.07	122.56	118.71
1	T	175	GLU	O-C-N	-5.07	116.66	122.95
1	k	47	ALA	N-CA-C	5.07	117.57	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	53	ASN	O-C-N	-5.07	116.03	122.27
1	d	149	SER	CB-CA-C	-5.07	101.87	110.19
1	C	171	THR	O-C-N	-5.07	116.61	122.09
1	D	154	ARG	CG-CD-NE	-5.07	100.84	112.00
1	J	48	THR	CA-C-N	5.07	125.10	119.32
1	J	48	THR	C-N-CA	5.07	125.10	119.32
1	T	10	MET	CA-C-N	5.07	129.78	123.14
1	T	10	MET	C-N-CA	5.07	129.78	123.14
1	U	67	GLN	N-CA-C	5.07	116.89	111.36
1	V	50	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	Z	32	PHE	CA-CB-CG	-5.07	108.73	113.80
1	m	65	ALA	CA-C-N	5.07	127.58	120.28
1	m	65	ALA	C-N-CA	5.07	127.58	120.28
1	7	47	ALA	N-CA-C	5.07	117.50	109.24
1	h	43	LEU	N-CA-C	5.07	116.62	111.14
1	K	98	GLU	CA-C-N	5.07	124.97	119.85
1	K	98	GLU	C-N-CA	5.07	124.97	119.85
1	T	182	LYS	CA-C-O	5.07	125.61	119.38
1	X	104	ILE	CA-C-O	-5.07	115.48	120.85
1	c	122	PRO	N-CD-CG	5.07	109.88	103.80
1	f	210	THR	CA-C-N	5.07	127.07	120.28
1	f	210	THR	C-N-CA	5.07	127.07	120.28
1	h	167	ARG	CA-C-N	5.07	127.07	120.28
1	h	167	ARG	C-N-CA	5.07	127.07	120.28
1	G	80	TRP	CD2-CE2-CZ2	-5.07	117.33	122.40
1	J	211	LEU	CA-C-N	5.07	127.07	120.28
1	J	211	LEU	C-N-CA	5.07	127.07	120.28
1	M	220	GLY	CA-C-O	5.07	129.39	120.57
1	N	200	THR	N-CA-C	5.07	116.80	111.28
1	S	65	ALA	N-CA-C	5.07	116.88	111.36
1	T	74	ASN	CA-CB-CG	5.07	117.67	112.60
1	W	87	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	5	133	TRP	CB-CG-CD2	-5.07	119.70	126.80
1	k	4	GLN	CA-C-N	5.07	132.21	122.03
1	k	4	GLN	C-N-CA	5.07	132.21	122.03
1	k	168	PHE	CA-C-O	-5.07	115.48	120.90
1	l	211	LEU	CA-C-O	5.07	127.75	120.51
1	7	134	ILE	N-CA-C	5.07	115.29	110.53
1	d	55	MET	CA-C-N	5.07	128.01	120.31
1	d	55	MET	C-N-CA	5.07	128.01	120.31
1	f	140	LYS	N-CA-C	5.07	116.49	111.07
1	f	145	TYR	CA-C-O	5.07	125.28	119.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	213	GLU	N-CA-C	5.07	116.80	111.28
1	J	149	SER	CB-CA-C	-5.07	101.20	110.62
1	M	131	LYS	CA-C-N	5.07	127.58	120.28
1	M	131	LYS	C-N-CA	5.07	127.58	120.28
1	5	212	GLU	CA-C-O	5.07	126.14	120.82
1	h	23	TRP	CA-C-N	5.07	127.61	120.42
1	h	23	TRP	C-N-CA	5.07	127.61	120.42
1	I	103	ASP	CA-C-N	5.06	127.40	120.46
1	I	103	ASP	C-N-CA	5.06	127.40	120.46
1	I	103	ASP	CA-CB-CG	-5.06	107.54	112.60
1	P	224	PRO	CA-C-O	-5.06	115.49	121.67
1	Q	33	SER	N-CA-C	-5.06	103.66	108.22
1	G	198	CYS	N-CA-C	5.06	117.69	111.82
1	J	31	ALA	CA-C-N	5.06	129.79	121.39
1	J	31	ALA	C-N-CA	5.06	129.79	121.39
1	L	192	GLN	O-C-N	-5.06	116.75	122.12
1	b	147	PRO	O-C-N	-5.06	115.81	122.64
1	7	89	GLY	CA-C-O	-5.06	114.28	121.52
1	f	166	ASP	CA-CB-CG	-5.06	107.54	112.60
1	N	92	GLU	CB-CA-C	-5.06	104.33	110.15
1	V	123	PRO	CA-C-O	-5.06	115.69	121.86
1	5	109	SER	CA-C-O	5.06	127.03	121.11
1	5	126	VAL	N-CA-C	5.06	115.28	110.42
1	6	22	ALA	CA-C-O	-5.06	115.06	120.42
1	H	106	GLY	CA-C-O	5.06	124.67	119.00
1	L	193	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	Q	229	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	R	91	ILE	CA-CB-CG1	5.06	119.00	110.40
1	T	230	VAL	CA-C-N	5.06	130.81	121.70
1	T	230	VAL	C-N-CA	5.06	130.81	121.70
1	d	177	ALA	CA-C-O	5.06	126.76	121.19
1	A	27	VAL	N-CA-C	5.06	115.83	110.72
1	D	33	SER	CA-C-O	-5.06	115.07	120.28
1	K	13	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	K	221	VAL	N-CA-C	5.06	116.44	109.46
1	N	168	PHE	CD1-CG-CD2	5.06	126.19	118.60
1	Q	46	GLY	CA-C-N	5.06	128.03	120.95
1	Q	46	GLY	C-N-CA	5.06	128.03	120.95
1	c	3	VAL	CB-CA-C	5.06	117.00	111.08
1	g	53	ASN	CA-CB-CG	-5.06	107.54	112.60
1	S	4	GLN	N-CA-C	5.06	121.57	110.80
1	W	42	ALA	N-CA-C	5.06	116.79	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	76	GLU	N-CA-C	5.06	117.69	111.82
1	B	225	GLY	N-CA-C	5.05	122.33	115.30
1	E	53	ASN	CA-C-O	5.05	125.78	120.42
1	6	49	PRO	O-C-N	-5.05	115.70	122.22
1	k	154	ARG	CA-C-O	5.05	126.67	120.60
1	e	66	MET	CA-C-N	5.05	127.05	120.28
1	e	66	MET	C-N-CA	5.05	127.05	120.28
1	C	124	ILE	O-C-N	-5.05	115.34	121.10
1	G	118	MET	CA-CB-CG	-5.05	104.00	114.10
1	W	189	LEU	N-CA-C	5.05	116.87	111.36
1	c	113	GLU	CB-CA-C	-5.05	102.31	110.79
1	m	138	LEU	O-C-N	-5.05	116.77	122.12
1	e	33	SER	CA-C-O	-5.05	114.86	119.76
1	g	168	PHE	N-CA-C	5.05	117.17	111.11
1	D	199	LYS	O-C-N	-5.05	116.77	122.12
1	Q	146	SER	O-C-N	-5.05	117.02	121.31
1	i	33	SER	CA-C-O	-5.05	114.98	120.69
1	j	84	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	e	167	ARG	O-C-N	-5.05	116.87	122.07
1	f	225	GLY	N-CA-C	5.05	118.59	112.48
1	B	180	GLU	CA-C-O	5.05	126.12	120.82
1	F	146	SER	CA-CB-OG	5.05	121.19	111.10
1	G	177	ALA	N-CA-C	5.05	117.42	110.35
1	I	86	VAL	CA-CB-CG2	-5.05	101.82	110.40
1	Q	184	TRP	CA-C-O	5.05	125.78	119.97
1	Q	197	ASP	CA-C-O	5.05	125.90	120.55
1	W	120	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	a	41	SER	CA-C-N	5.05	127.55	120.28
1	a	41	SER	C-N-CA	5.05	127.55	120.28
1	h	90	PRO	CA-C-N	5.05	128.75	121.18
1	h	90	PRO	C-N-CA	5.05	128.75	121.18
1	A	102	SER	N-CA-C	5.05	116.78	111.28
1	H	80	TRP	CA-C-N	5.05	127.30	120.44
1	H	80	TRP	C-N-CA	5.05	127.30	120.44
1	M	85	PRO	CA-C-N	-5.05	116.56	123.12
1	M	85	PRO	C-N-CA	-5.05	116.56	123.12
1	N	82	ARG	O-C-N	-5.05	116.87	122.07
1	T	124	ILE	CA-CB-CG1	5.05	118.98	110.40
1	W	171	THR	CA-C-N	5.05	127.46	120.29
1	W	171	THR	C-N-CA	5.05	127.46	120.29
1	i	15	ILE	CA-C-O	-5.05	116.53	121.58
1	i	164	TYR	CB-CG-CD2	5.05	128.37	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	211	LEU	O-C-N	-5.05	115.67	122.43
1	7	34	PRO	CA-C-N	5.05	127.75	120.38
1	7	34	PRO	C-N-CA	5.05	127.75	120.38
1	7	137	GLY	O-C-N	5.05	127.13	122.13
1	g	63	GLN	O-C-N	-5.05	116.78	122.03
1	O	97	ARG	NH1-CZ-NH2	-5.04	112.74	119.30
1	X	138	LEU	CA-C-N	5.04	127.04	120.28
1	X	138	LEU	C-N-CA	5.04	127.04	120.28
1	b	207	PRO	N-CD-CG	5.04	110.77	103.20
1	B	41	SER	CB-CA-C	-5.04	100.99	110.67
1	B	228	ALA	CB-CA-C	-5.04	102.90	110.16
1	J	59	VAL	O-C-N	-5.04	117.53	122.67
1	O	53	ASN	OD1-CG-ND2	5.04	127.64	122.60
1	Y	158	LYS	CB-CA-C	-5.04	101.97	110.64
1	b	68	MET	N-CA-C	5.04	116.78	111.28
1	f	56	LEU	CA-C-O	5.04	125.84	120.24
1	B	183	ASN	N-CA-CB	5.04	118.09	110.28
1	E	152	ASP	N-CA-CB	-5.04	103.20	110.56
1	J	132	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	P	76	GLU	CA-C-N	5.04	126.99	120.44
1	P	76	GLU	C-N-CA	5.04	126.99	120.44
1	V	196	PRO	O-C-N	5.04	127.87	122.17
1	X	93	PRO	CA-C-N	5.04	131.46	121.53
1	X	93	PRO	C-N-CA	5.04	131.46	121.53
1	Y	179	GLN	CA-CB-CG	5.04	124.19	114.10
1	Z	18	ARG	NH1-CZ-NH2	5.04	125.85	119.30
1	l	152	ASP	CA-CB-CG	5.04	117.64	112.60
1	h	213	GLU	CA-C-N	5.04	130.80	121.52
1	h	213	GLU	C-N-CA	5.04	130.80	121.52
1	D	85	PRO	O-C-N	5.04	129.39	122.99
1	X	72	THR	CA-C-N	5.04	127.57	120.42
1	X	72	THR	C-N-CA	5.04	127.57	120.42
1	j	95	GLN	CG-CD-OE1	5.04	130.88	120.80
1	m	44	SER	N-CA-CB	5.04	117.98	110.22
1	d	226	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	f	25	LYS	O-C-N	-5.04	116.88	122.07
1	D	32	PHE	CA-C-O	5.04	125.75	120.36
1	M	219	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	N	119	THR	N-CA-C	5.04	116.58	111.14
1	g	133	TRP	CB-CA-C	-5.04	102.43	110.79
1	G	41	SER	CA-C-N	5.04	126.99	120.44
1	G	41	SER	C-N-CA	5.04	126.99	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	74	ASN	CB-CA-C	-5.04	102.29	110.85
1	M	182	LYS	CA-C-N	5.04	126.99	120.44
1	M	182	LYS	C-N-CA	5.04	126.99	120.44
1	O	131	LYS	CA-C-O	5.04	125.89	120.55
1	X	28	GLU	N-CA-C	5.04	116.58	111.14
1	c	29	GLU	N-CA-C	5.04	116.85	111.36
1	B	90	PRO	CA-C-N	5.03	127.36	120.46
1	B	90	PRO	C-N-CA	5.03	127.36	120.46
1	S	9	GLN	CA-C-N	5.03	129.51	122.36
1	S	9	GLN	C-N-CA	5.03	129.51	122.36
1	Z	12	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	a	156	GLY	CA-C-O	5.03	128.72	121.52
1	l	98	GLU	O-C-N	-5.03	116.25	121.28
1	D	48	THR	N-CA-CB	5.03	117.30	110.05
1	L	217	ALA	N-CA-CB	5.03	117.44	110.04
1	N	150	ILE	CA-C-N	5.03	127.96	120.31
1	N	150	ILE	C-N-CA	5.03	127.96	120.31
1	m	162	ARG	CA-C-O	5.03	126.56	120.92
1	f	217	ALA	N-CA-CB	5.03	117.43	109.83
1	A	105	ALA	O-C-N	-5.03	115.85	122.39
1	B	40	PHE	CA-C-O	-5.03	115.52	120.90
1	L	172	LEU	N-CA-CB	5.03	117.52	110.12
1	P	185	MET	N-CA-C	5.03	116.84	111.36
1	Q	123	PRO	CA-C-N	-5.03	117.90	123.43
1	Q	123	PRO	C-N-CA	-5.03	117.90	123.43
1	a	54	THR	OG1-CB-CG2	-5.03	99.24	109.30
1	6	78	ALA	N-CA-C	-5.03	105.88	111.36
1	l	83	LEU	N-CA-CB	5.03	117.30	110.01
1	G	23	TRP	O-C-N	-5.03	116.08	122.27
1	K	41	SER	O-C-N	-5.03	116.79	122.12
1	Q	95	GLN	O-C-N	-5.03	117.13	123.27
1	W	217	ALA	CA-C-O	-5.03	116.22	121.55
1	G	131	LYS	CB-CA-C	-5.03	102.99	110.88
1	H	49	PRO	N-CD-CG	5.03	110.74	103.20
1	O	67	GLN	OE1-CD-NE2	5.03	127.63	122.60
1	R	5	ASN	CA-CB-CG	-5.03	107.57	112.60
1	i	196	PRO	O-C-N	-5.03	115.85	122.64
1	d	23	TRP	CG-CD2-CE3	-5.03	128.87	133.90
1	e	155	GLN	O-C-N	-5.03	117.31	123.19
1	h	140	LYS	O-C-N	-5.03	116.79	122.12
1	F	28	GLU	O-C-N	5.03	127.25	122.07
1	R	160	PRO	CA-C-N	5.03	127.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	160	PRO	C-N-CA	5.03	127.01	120.28
1	6	214	MET	CG-SD-CE	-5.03	89.84	100.90
1	l	180	GLU	N-CA-C	5.03	116.84	111.36
1	7	170	LYS	CA-C-O	-5.03	114.66	120.24
1	E	180	GLU	N-CA-C	5.02	117.14	111.11
1	Z	124	ILE	N-CA-C	5.02	112.52	107.55
1	m	171	THR	CA-CB-OG1	5.02	117.14	109.60
1	e	195	ASN	N-CA-CB	-5.02	103.81	109.49
1	h	2	ILE	N-CA-C	5.02	116.51	108.87
1	A	26	VAL	O-C-N	-5.02	116.99	121.91
1	G	97	ARG	N-CA-C	-5.02	101.44	109.23
1	J	124	ILE	N-CA-CB	-5.02	105.44	112.27
1	M	173	ARG	N-CA-C	5.02	117.64	111.82
1	U	219	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	W	84	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	X	121	ASN	CA-C-O	-5.02	113.21	119.54
1	Y	132	ARG	CA-C-O	5.02	125.74	120.42
1	k	56	LEU	O-C-N	-5.02	116.90	122.07
1	l	13	GLN	N-CA-C	-5.02	101.21	109.40
1	h	130	TYR	N-CA-C	5.02	117.49	111.71
1	H	195	ASN	CA-C-O	-5.02	115.35	120.87
1	O	51	ASP	N-CA-C	-5.02	105.70	111.07
1	B	123	PRO	N-CA-CB	5.02	108.52	103.25
1	D	19	THR	N-CA-CB	5.02	117.50	110.12
1	G	7	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	G	141	ILE	O-C-N	-5.02	116.68	121.90
1	M	97	ARG	O-C-N	-5.02	116.77	122.89
1	N	84	HIS	CB-CG-CD2	-5.02	124.67	131.20
1	P	3	VAL	N-CA-C	5.02	117.23	108.95
1	7	139	ASN	O-C-N	-5.02	116.43	122.15
1	7	179	GLN	O-C-N	-5.02	116.80	122.12
1	d	173	ARG	CD-NE-CZ	-5.02	117.37	124.40
1	e	15	ILE	N-CA-C	5.02	116.86	109.63
1	g	163	ASP	CA-C-N	5.02	127.00	120.28
1	g	163	ASP	C-N-CA	5.02	127.00	120.28
1	F	48	THR	CA-CB-OG1	5.02	117.13	109.60
1	J	108	THR	CA-CB-CG2	-5.02	101.97	110.50
1	Z	217	ALA	CB-CA-C	-5.02	99.25	110.19
1	i	51	ASP	CB-CA-C	-5.02	102.46	110.79
1	7	69	LEU	O-C-N	-5.02	116.87	122.09
1	B	157	PRO	N-CA-C	-5.02	107.21	114.18
1	M	186	THR	N-CA-C	5.02	116.44	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	129	ILE	N-CA-CB	5.02	116.42	110.55
1	B	215	MET	CA-C-O	5.01	125.87	120.55
1	E	129	ILE	CA-C-N	5.01	127.41	120.29
1	E	129	ILE	C-N-CA	5.01	127.41	120.29
1	E	226	HIS	CA-C-O	5.01	126.49	121.07
1	J	160	PRO	CA-C-O	-5.01	115.81	121.43
1	P	125	PRO	N-CD-CG	5.01	110.72	103.20
1	V	96	MET	N-CA-C	-5.01	101.28	108.60
1	Z	4	GLN	N-CA-C	5.01	121.48	110.80
1	5	108	THR	CB-CA-C	-5.01	102.90	111.02
1	k	212	GLU	CA-C-O	5.01	125.86	120.55
1	m	143	ARG	O-C-N	-5.01	116.81	122.12
1	K	226	HIS	O-C-N	-5.01	116.18	122.35
1	P	69	LEU	O-C-N	-5.01	116.91	122.07
1	P	86	VAL	O-C-N	5.01	128.06	122.75
1	b	183	ASN	O-C-N	-5.01	116.10	122.27
1	j	168	PHE	CB-CA-C	-5.01	102.47	110.79
1	k	143	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	A	209	ALA	N-CA-CB	5.01	117.39	110.17
1	Q	172	LEU	N-CA-C	5.01	116.74	111.28
1	X	23	TRP	O-C-N	5.01	127.30	122.09
1	Z	152	ASP	CA-C-O	-5.01	115.11	120.42
1	5	119	THR	CA-C-O	-5.01	113.22	119.28
1	m	118	MET	O-C-N	-5.01	116.11	122.27
1	e	83	LEU	CA-C-N	5.01	128.00	120.83
1	e	83	LEU	C-N-CA	5.01	128.00	120.83
1	A	68	MET	O-C-N	-5.01	116.81	122.12
1	C	117	TRP	CG-CD2-CE3	-5.01	128.89	133.90
1	C	142	VAL	CB-CA-C	-5.01	105.38	112.14
1	M	3	VAL	CA-C-N	5.01	131.11	121.54
1	M	3	VAL	C-N-CA	5.01	131.11	121.54
1	S	13	GLN	CB-CG-CD	-5.01	104.08	112.60
1	T	82	ARG	CD-NE-CZ	5.01	131.41	124.40
1	U	64	ALA	N-CA-C	5.01	116.82	111.36
1	W	74	ASN	CB-CG-ND2	-5.01	108.88	116.40
1	Z	123	PRO	CA-C-O	-5.01	115.87	121.23
1	Z	155	GLN	CA-C-N	-5.01	114.01	121.87
1	Z	155	GLN	C-N-CA	-5.01	114.01	121.87
1	a	166	ASP	CA-CB-CG	-5.01	107.59	112.60
1	b	194	ALA	CA-C-N	5.01	128.29	120.68
1	b	194	ALA	C-N-CA	5.01	128.29	120.68
1	i	114	GLN	N-CA-C	5.01	116.74	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	102	SER	CA-C-O	5.01	125.76	120.10
1	5	204	ALA	N-CA-C	5.01	116.55	111.14
1	F	22	ALA	N-CA-C	5.01	116.82	111.36
1	U	175	GLU	CA-C-O	-5.01	116.37	122.03
1	V	123	PRO	O-C-N	-5.01	116.82	123.13
1	V	213	GLU	CA-C-O	5.01	124.56	119.05
1	7	118	MET	CG-SD-CE	-5.01	89.89	100.90
1	g	35	GLU	CA-C-N	5.01	128.56	120.55
1	g	35	GLU	C-N-CA	5.01	128.56	120.55
1	I	78	ALA	CB-CA-C	-5.00	102.96	110.92
1	I	129	ILE	CB-CG1-CD1	5.00	124.31	113.80
1	K	181	VAL	N-CA-C	5.00	115.72	110.62
1	L	218	CYS	O-C-N	-5.00	116.57	122.58
1	W	177	ALA	N-CA-C	5.00	121.46	110.80
1	j	182	LYS	O-C-N	-5.00	116.81	122.12
1	l	221	VAL	N-CA-CB	-5.00	102.68	110.54
1	A	32	PHE	CA-C-O	5.00	126.38	120.98
1	K	92	GLU	O-C-N	-5.00	115.56	121.32
1	O	37	ILE	O-C-N	-5.00	115.40	121.10
1	O	85	PRO	N-CA-CB	-5.00	97.63	101.83
1	P	172	LEU	CA-C-N	-5.00	113.58	120.28
1	P	172	LEU	C-N-CA	-5.00	113.58	120.28
1	k	211	LEU	N-CA-C	5.00	117.46	111.71
1	A	56	LEU	O-C-N	-5.00	116.92	122.07
1	G	92	GLU	CA-C-O	-5.00	115.04	120.69
1	J	18	ARG	NE-CZ-NH1	-5.00	116.50	121.50
1	O	111	LEU	O-C-N	-5.00	116.83	122.03
1	5	71	GLU	CA-C-N	5.00	127.39	120.29
1	5	71	GLU	C-N-CA	5.00	127.39	120.29
1	j	162	ARG	N-CA-CB	-5.00	102.52	110.22
1	7	154	ARG	CA-C-N	5.00	129.42	122.77
1	7	154	ARG	C-N-CA	5.00	129.42	122.77
1	d	211	LEU	CA-C-N	5.00	127.29	120.54
1	d	211	LEU	C-N-CA	5.00	127.29	120.54

There are no chirality outliers.

All (251) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	5	132	ARG	Sidechain
1	5	143	ARG	Sidechain
1	5	62	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	5	97	ARG	Sidechain
1	6	132	ARG	Sidechain
1	6	143	ARG	Sidechain
1	6	169	TYR	Sidechain
1	6	18	ARG	Sidechain
1	6	229	ARG	Sidechain
1	7	121	ASN	Peptide
1	7	167	ARG	Sidechain
1	7	18	ARG	Sidechain
1	7	97	ARG	Sidechain
1	A	145	TYR	Sidechain
1	A	162	ARG	Sidechain
1	A	164	TYR	Sidechain
1	A	18	ARG	Sidechain
1	B	130	TYR	Sidechain
1	B	132	ARG	Sidechain
1	B	162	ARG	Sidechain
1	B	32	PHE	Sidechain
1	B	48	THR	Peptide
1	C	100	ARG	Sidechain
1	C	114	GLN	Mainchain
1	C	132	ARG	Sidechain
1	C	145	TYR	Sidechain
1	C	169	TYR	Sidechain
1	C	173	ARG	Sidechain
1	D	121	ASN	Peptide
1	D	124	ILE	Peptide
1	D	130	TYR	Sidechain
1	D	132	ARG	Sidechain
1	D	154	ARG	Sidechain
1	D	206	GLY	Peptide
1	D	229	ARG	Sidechain
1	D	62	HIS	Sidechain
1	E	100	ARG	Sidechain
1	E	124	ILE	Peptide
1	E	132	ARG	Sidechain
1	E	226	HIS	Sidechain
1	F	143	ARG	Sidechain
1	F	154	ARG	Sidechain
1	F	173	ARG	Sidechain
1	G	100	ARG	Sidechain
1	G	120	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	G	154	ARG	Sidechain
1	G	167	ARG	Sidechain
1	G	173	ARG	Sidechain
1	G	40	PHE	Sidechain
1	G	97	ARG	Sidechain
1	H	124	ILE	Peptide
1	H	132	ARG	Sidechain
1	H	164	TYR	Sidechain
1	H	173	ARG	Sidechain
1	H	40	PHE	Sidechain
1	I	100	ARG	Sidechain
1	I	145	TYR	Sidechain
1	I	97	ARG	Sidechain
1	J	100	ARG	Sidechain
1	J	120	HIS	Sidechain
1	J	130	TYR	Sidechain
1	J	132	ARG	Sidechain
1	J	145	TYR	Sidechain
1	J	162	ARG	Sidechain
1	J	164	TYR	Sidechain
1	J	169	TYR	Sidechain
1	J	173	ARG	Sidechain
1	J	18	ARG	Sidechain
1	K	121	ASN	Peptide
1	K	130	TYR	Sidechain
1	K	145	TYR	Sidechain
1	K	164	TYR	Sidechain
1	K	169	TYR	Sidechain
1	K	173	ARG	Sidechain
1	K	18	ARG	Sidechain
1	K	223	GLY	Peptide
1	K	229	ARG	Sidechain
1	K	40	PHE	Sidechain
1	K	82	ARG	Sidechain
1	L	121	ASN	Peptide
1	L	143	ARG	Sidechain
1	L	145	TYR	Sidechain
1	L	162	ARG	Sidechain
1	L	164	TYR	Sidechain
1	L	229	ARG	Sidechain
1	M	123	PRO	Peptide
1	M	130	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	M	132	ARG	Sidechain
1	M	143	ARG	Sidechain
1	N	132	ARG	Sidechain
1	N	14	ALA	Peptide
1	N	161	PHE	Sidechain
1	N	164	TYR	Sidechain
1	N	173	ARG	Sidechain
1	N	82	ARG	Sidechain
1	O	169	TYR	Sidechain
1	O	226	HIS	Sidechain
1	O	82	ARG	Sidechain
1	O	84	HIS	Sidechain
1	P	124	ILE	Peptide
1	P	130	TYR	Sidechain
1	P	132	ARG	Sidechain
1	P	145	TYR	Sidechain
1	P	162	ARG	Sidechain
1	Q	164	TYR	Sidechain
1	Q	167	ARG	Sidechain
1	Q	82	ARG	Sidechain
1	R	143	ARG	Sidechain
1	R	167	ARG	Sidechain
1	R	211	LEU	Mainchain
1	S	100	ARG	Sidechain
1	S	121	ASN	Peptide
1	S	145	TYR	Sidechain
1	S	162	ARG	Sidechain
1	S	164	TYR	Sidechain
1	S	169	TYR	Sidechain
1	T	124	ILE	Peptide
1	T	164	TYR	Sidechain
1	T	229	ARG	Sidechain
1	U	130	TYR	Sidechain
1	U	132	ARG	Sidechain
1	U	145	TYR	Sidechain
1	U	18	ARG	Sidechain
1	U	206	GLY	Peptide
1	U	229	ARG	Sidechain
1	U	40	PHE	Sidechain
1	V	145	TYR	Sidechain
1	V	154	ARG	Sidechain
1	V	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	V	169	TYR	Sidechain
1	V	173	ARG	Sidechain
1	V	18	ARG	Sidechain
1	V	229	ARG	Sidechain
1	V	40	PHE	Sidechain
1	V	82	ARG	Sidechain
1	W	120	HIS	Sidechain
1	W	124	ILE	Peptide
1	W	173	ARG	Sidechain
1	W	229	ARG	Sidechain
1	W	50	GLN	Mainchain
1	X	164	TYR	Sidechain
1	X	168	PHE	Sidechain
1	X	40	PHE	Sidechain
1	Y	100	ARG	Sidechain
1	Y	124	ILE	Peptide
1	Y	130	TYR	Sidechain
1	Y	145	TYR	Sidechain
1	Y	161	PHE	Sidechain
1	Y	162	ARG	Sidechain
1	Y	167	ARG	Sidechain
1	Y	169	TYR	Sidechain
1	Y	32	PHE	Sidechain
1	Z	100	ARG	Sidechain
1	Z	120	HIS	Sidechain
1	Z	130	TYR	Sidechain
1	Z	132	ARG	Sidechain
1	Z	162	ARG	Sidechain
1	Z	164	TYR	Sidechain
1	Z	173	ARG	Sidechain
1	Z	190	LEU	Peptide
1	Z	229	ARG	Sidechain
1	Z	75	GLU	Mainchain
1	a	121	ASN	Peptide
1	a	130	TYR	Sidechain
1	a	162	ARG	Sidechain
1	a	18	ARG	Sidechain
1	a	229	ARG	Sidechain
1	b	124	ILE	Peptide
1	b	130	TYR	Sidechain
1	b	143	ARG	Sidechain
1	b	167	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	b	173	ARG	Sidechain
1	b	18	ARG	Sidechain
1	b	5	ASN	Mainchain
1	b	82	ARG	Sidechain
1	b	87	HIS	Sidechain
1	c	100	ARG	Sidechain
1	c	132	ARG	Sidechain
1	c	143	ARG	Sidechain
1	c	145	TYR	Sidechain
1	c	162	ARG	Sidechain
1	c	164	TYR	Sidechain
1	c	169	TYR	Sidechain
1	c	229	ARG	Sidechain
1	c	82	ARG	Sidechain
1	c	92	GLU	Peptide
1	d	100	ARG	Sidechain
1	d	132	ARG	Sidechain
1	d	145	TYR	Sidechain
1	d	164	TYR	Sidechain
1	d	167	ARG	Sidechain
1	d	200	THR	Mainchain
1	e	145	TYR	Sidechain
1	e	154	ARG	Sidechain
1	e	162	ARG	Sidechain
1	e	167	ARG	Sidechain
1	e	169	TYR	Sidechain
1	e	18	ARG	Sidechain
1	f	143	ARG	Sidechain
1	f	145	TYR	Sidechain
1	f	154	ARG	Sidechain
1	f	167	ARG	Sidechain
1	f	229	ARG	Sidechain
1	f	84	HIS	Peptide
1	f	85	PRO	Peptide
1	f	97	ARG	Sidechain
1	g	130	TYR	Sidechain
1	g	154	ARG	Sidechain
1	g	167	ARG	Sidechain
1	g	97	ARG	Sidechain
1	h	121	ASN	Peptide
1	h	154	ARG	Sidechain
1	h	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	h	164	TYR	Sidechain
1	h	167	ARG	Sidechain
1	h	18	ARG	Sidechain
1	h	82	ARG	Sidechain
1	i	100	ARG	Sidechain
1	i	160	PRO	Peptide
1	i	162	ARG	Sidechain
1	i	167	ARG	Sidechain
1	i	226	HIS	Sidechain
1	i	229	ARG	Sidechain
1	j	120	HIS	Sidechain
1	j	130	TYR	Sidechain
1	j	143	ARG	Sidechain
1	j	147	PRO	Peptide
1	j	164	TYR	Sidechain
1	j	173	ARG	Sidechain
1	j	176	GLN	Mainchain,Peptide
1	j	82	ARG	Sidechain
1	k	143	ARG	Sidechain
1	k	161	PHE	Sidechain
1	k	169	TYR	Sidechain
1	k	173	ARG	Sidechain
1	k	229	ARG	Sidechain
1	k	5	ASN	Peptide
1	k	82	ARG	Sidechain
1	l	120	HIS	Sidechain
1	l	130	TYR	Sidechain
1	l	143	ARG	Sidechain
1	l	164	TYR	Sidechain
1	l	173	ARG	Sidechain
1	l	97	ARG	Sidechain
1	m	124	ILE	Peptide
1	m	143	ARG	Sidechain
1	m	146	SER	Peptide
1	m	154	ARG	Sidechain
1	m	229	ARG	Sidechain
1	m	97	ARG	Sidechain

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	5	1800	0	1802	0	0
1	6	1800	0	1802	0	0
1	7	1800	0	1802	0	0
1	A	1800	0	1802	0	0
1	B	1800	0	1802	0	0
1	C	1800	0	1802	0	0
1	D	1800	0	1802	0	0
1	E	1800	0	1802	0	0
1	F	1800	0	1802	0	0
1	G	1800	0	1802	0	0
1	H	1800	0	1802	0	0
1	I	1800	0	1802	0	0
1	J	1800	0	1802	0	0
1	K	1800	0	1802	0	0
1	L	1800	0	1802	0	0
1	M	1800	0	1802	0	0
1	N	1800	0	1802	0	0
1	O	1800	0	1802	0	0
1	P	1800	0	1802	0	0
1	Q	1800	0	1802	0	0
1	R	1800	0	1802	0	0
1	S	1800	0	1802	0	0
1	T	1800	0	1802	0	0
1	U	1800	0	1802	0	0
1	V	1800	0	1802	0	0
1	W	1800	0	1802	0	0
1	X	1800	0	1802	0	0
1	Y	1800	0	1802	0	0
1	Z	1800	0	1802	0	0
1	a	1800	0	1802	0	0
1	b	1800	0	1802	0	0
1	c	1800	0	1802	0	0
1	d	1800	0	1802	0	0
1	e	1800	0	1802	0	0
1	f	1800	0	1802	0	0
1	g	1800	0	1802	0	0
1	h	1800	0	1802	0	0
1	i	1800	0	1802	0	0
1	j	1800	0	1802	0	0
1	k	1800	0	1802	0	0
1	l	1800	0	1802	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	m	1800	0	1802	0	0
All	All	75600	0	75684	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.

There are no clashes within the asymmetric unit.

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	5	195/195 (100%)	192 (98%)	3 (2%)	57	72
1	6	195/195 (100%)	187 (96%)	8 (4%)	27	49
1	7	195/195 (100%)	188 (96%)	7 (4%)	31	52
1	A	195/195 (100%)	188 (96%)	7 (4%)	31	52
1	B	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	C	195/195 (100%)	188 (96%)	7 (4%)	31	52
1	D	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	E	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	F	195/195 (100%)	189 (97%)	6 (3%)	35	56
1	G	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	H	195/195 (100%)	194 (100%)	1 (0%)	81	83
1	I	195/195 (100%)	190 (97%)	5 (3%)	40	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	195/195 (100%)	193 (99%)	2 (1%)	68	78
1	K	195/195 (100%)	189 (97%)	6 (3%)	35	56
1	L	195/195 (100%)	192 (98%)	3 (2%)	57	72
1	M	195/195 (100%)	184 (94%)	11 (6%)	19	40
1	N	195/195 (100%)	187 (96%)	8 (4%)	27	49
1	O	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	P	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	Q	195/195 (100%)	188 (96%)	7 (4%)	31	52
1	R	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	S	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	T	195/195 (100%)	189 (97%)	6 (3%)	35	56
1	U	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	V	195/195 (100%)	189 (97%)	6 (3%)	35	56
1	W	195/195 (100%)	192 (98%)	3 (2%)	57	72
1	X	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	Y	195/195 (100%)	189 (97%)	6 (3%)	35	56
1	Z	195/195 (100%)	192 (98%)	3 (2%)	57	72
1	a	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	b	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	c	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	d	195/195 (100%)	193 (99%)	2 (1%)	68	78
1	e	195/195 (100%)	188 (96%)	7 (4%)	31	52
1	f	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	g	195/195 (100%)	189 (97%)	6 (3%)	35	56
1	h	195/195 (100%)	192 (98%)	3 (2%)	57	72
1	i	195/195 (100%)	190 (97%)	5 (3%)	40	62
1	j	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	k	195/195 (100%)	191 (98%)	4 (2%)	47	65
1	l	195/195 (100%)	187 (96%)	8 (4%)	27	49
1	m	195/195 (100%)	192 (98%)	3 (2%)	57	72
All	All	8190/8190 (100%)	7981 (97%)	209 (3%)	41	62

All (209) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	27	VAL
1	A	69	LEU
1	A	107	THR
1	A	115	ILE
1	A	142	VAL
1	A	151	LEU
1	A	163	ASP
1	B	4	GLN
1	B	83	LEU
1	B	200	THR
1	B	224	PRO
1	C	81	ASP
1	C	91	ILE
1	C	98	GLU
1	C	115	ILE
1	C	128	GLU
1	C	181	VAL
1	C	189	LEU
1	D	58	THR
1	D	59	VAL
1	D	150	ILE
1	D	183	ASN
1	E	26	VAL
1	E	39	MET
1	E	59	VAL
1	E	90	PRO
1	E	93	PRO
1	F	25	LYS
1	F	74	ASN
1	F	85	PRO
1	F	104	ILE
1	F	138	LEU
1	F	196	PRO
1	G	1	PRO
1	G	21	ASN
1	G	58	THR
1	G	142	VAL
1	G	153	ILE
1	H	188	THR
1	I	2	ILE
1	I	5	ASN
1	I	119	THR

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Mol	Chain	Res	Type
1	I	157	PRO
1	I	162	ARG
1	J	45	GLU
1	J	163	ASP
1	K	1	PRO
1	K	10	MET
1	K	69	LEU
1	K	70	LYS
1	K	122	PRO
1	K	153	ILE
1	L	73	ILE
1	L	186	THR
1	L	207	PRO
1	M	2	ILE
1	M	6	LEU
1	M	11	VAL
1	M	27	VAL
1	M	91	ILE
1	M	123	PRO
1	M	124	ILE
1	M	153	ILE
1	M	195	ASN
1	M	205	LEU
1	M	211	LEU
1	N	7	GLN
1	N	34	PRO
1	N	69	LEU
1	N	81	ASP
1	N	146	SER
1	N	147	PRO
1	N	210	THR
1	N	211	LEU
1	O	26	VAL
1	O	37	ILE
1	O	155	GLN
1	O	196	PRO
1	O	205	LEU
1	P	11	VAL
1	P	112	GLN
1	P	123	PRO
1	P	166	ASP
1	Q	17	PRO

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Mol	Chain	Res	Type
1	Q	34	PRO
1	Q	91	ILE
1	Q	108	THR
1	Q	115	ILE
1	Q	123	PRO
1	Q	160	PRO
1	R	17	PRO
1	R	91	ILE
1	R	110	THR
1	R	200	THR
1	R	210	THR
1	S	81	ASP
1	S	150	ILE
1	S	181	VAL
1	S	212	GLU
1	T	34	PRO
1	T	124	ILE
1	T	135	ILE
1	T	169	TYR
1	T	224	PRO
1	T	227	LYS
1	U	49	PRO
1	U	110	THR
1	U	115	ILE
1	U	151	LEU
1	U	186	THR
1	V	24	VAL
1	V	93	PRO
1	V	124	ILE
1	V	142	VAL
1	V	153	ILE
1	V	186	THR
1	W	73	ILE
1	W	81	ASP
1	W	91	ILE
1	X	25	LYS
1	X	58	THR
1	X	181	VAL
1	X	196	PRO
1	Y	4	GLN
1	Y	21	ASN
1	Y	24	VAL

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Mol	Chain	Res	Type
1	Y	139	ASN
1	Y	166	ASP
1	Y	188	THR
1	Z	1	PRO
1	Z	34	PRO
1	Z	38	PRO
1	5	1	PRO
1	5	49	PRO
1	5	195	ASN
1	a	13	GLN
1	a	49	PRO
1	a	91	ILE
1	a	160	PRO
1	b	1	PRO
1	b	17	PRO
1	b	34	PRO
1	b	69	LEU
1	b	90	PRO
1	c	26	VAL
1	c	153	ILE
1	c	200	THR
1	c	210	THR
1	6	3	VAL
1	6	68	MET
1	6	69	LEU
1	6	111	LEU
1	6	130	TYR
1	6	135	ILE
1	6	160	PRO
1	6	195	ASN
1	i	1	PRO
1	i	2	ILE
1	i	34	PRO
1	i	160	PRO
1	i	197	ASP
1	j	39	MET
1	j	73	ILE
1	j	119	THR
1	j	190	LEU
1	k	7	GLN
1	k	85	PRO
1	k	157	PRO

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Mol	Chain	Res	Type
1	k	179	GLN
1	l	34	PRO
1	l	36	VAL
1	l	49	PRO
1	l	56	LEU
1	l	86	VAL
1	l	91	ILE
1	l	135	ILE
1	l	196	PRO
1	m	130	TYR
1	m	207	PRO
1	m	224	PRO
1	7	19	THR
1	7	69	LEU
1	7	107	THR
1	7	142	VAL
1	7	149	SER
1	7	196	PRO
1	7	230	VAL
1	d	3	VAL
1	d	115	ILE
1	e	2	ILE
1	e	85	PRO
1	e	90	PRO
1	e	115	ILE
1	e	146	SER
1	e	224	PRO
1	e	230	VAL
1	f	2	ILE
1	f	122	PRO
1	f	200	THR
1	f	207	PRO
1	g	23	TRP
1	g	90	PRO
1	g	148	THR
1	g	221	VAL
1	g	227	LYS
1	g	230	VAL
1	h	2	ILE
1	h	69	LEU
1	h	165	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are

no such sidechains identified.

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

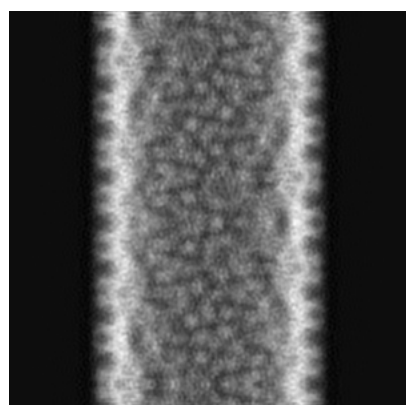
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5582. These allow visual inspection of the internal detail of the map and identification of artifacts.

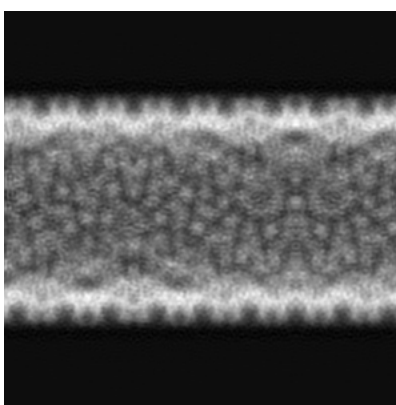
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X



Y

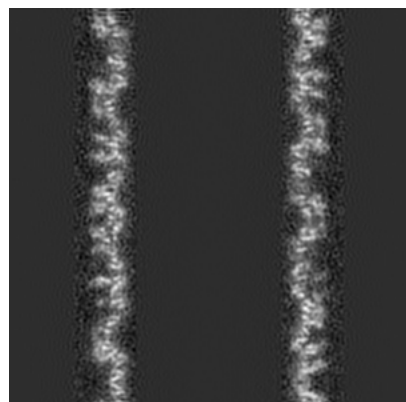


Z

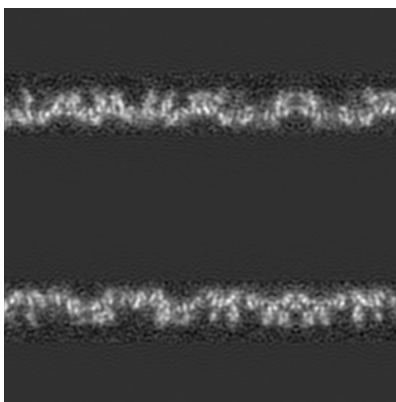
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

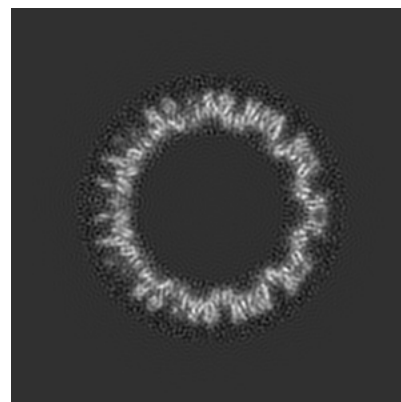
6.2.1 Primary map



X Index: 332



Y Index: 332

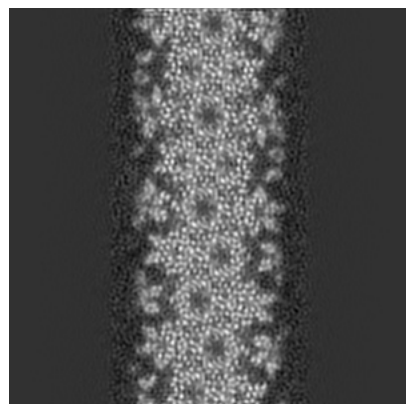


Z Index: 332

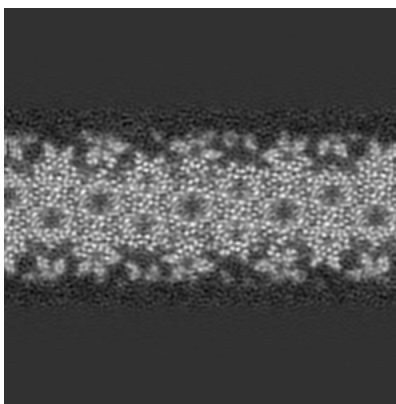
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

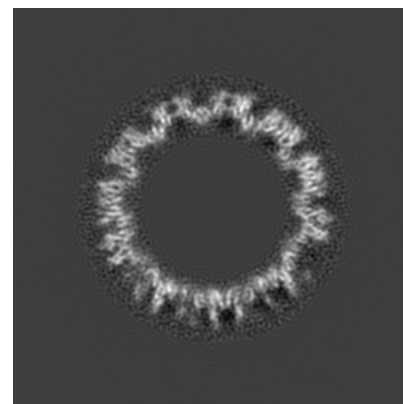
6.3.1 Primary map



X Index: 485



Y Index: 484

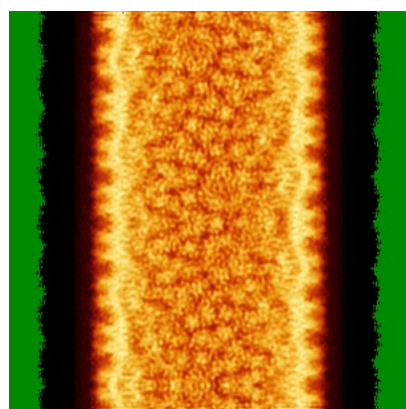


Z Index: 2

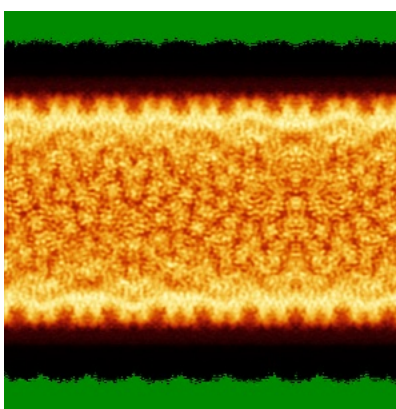
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

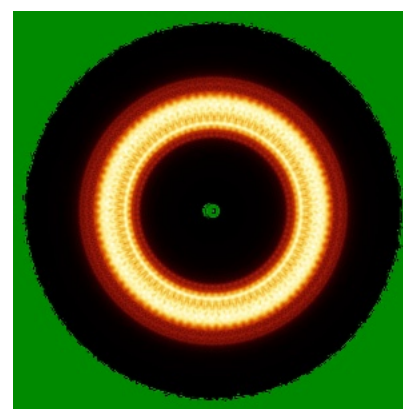
6.4.1 Primary map



X



Y

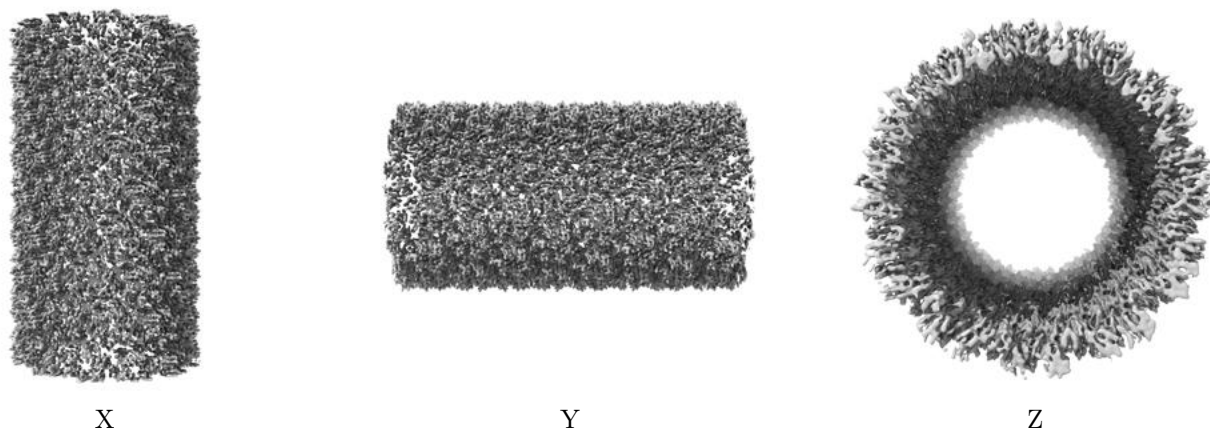


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 29.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

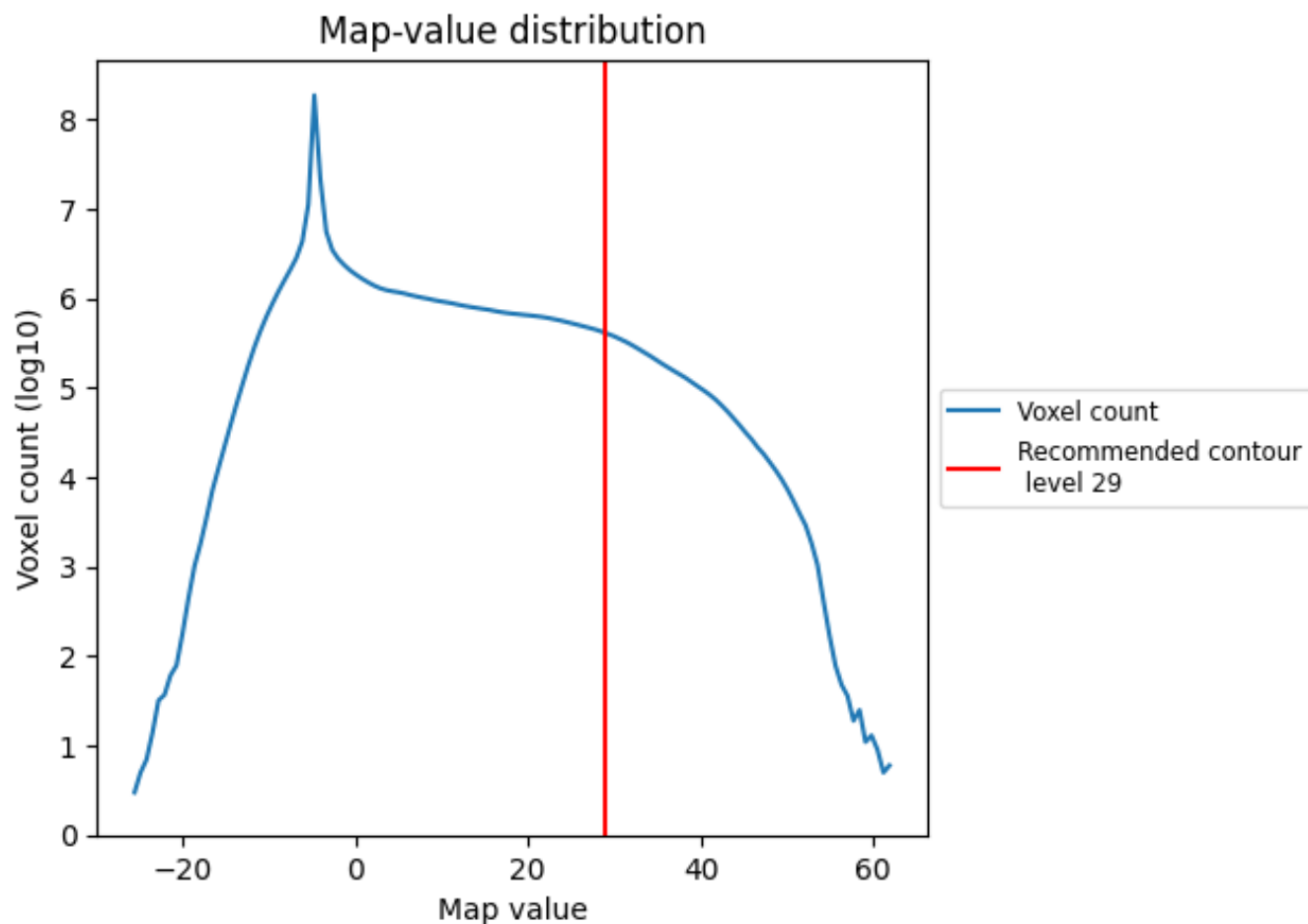
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

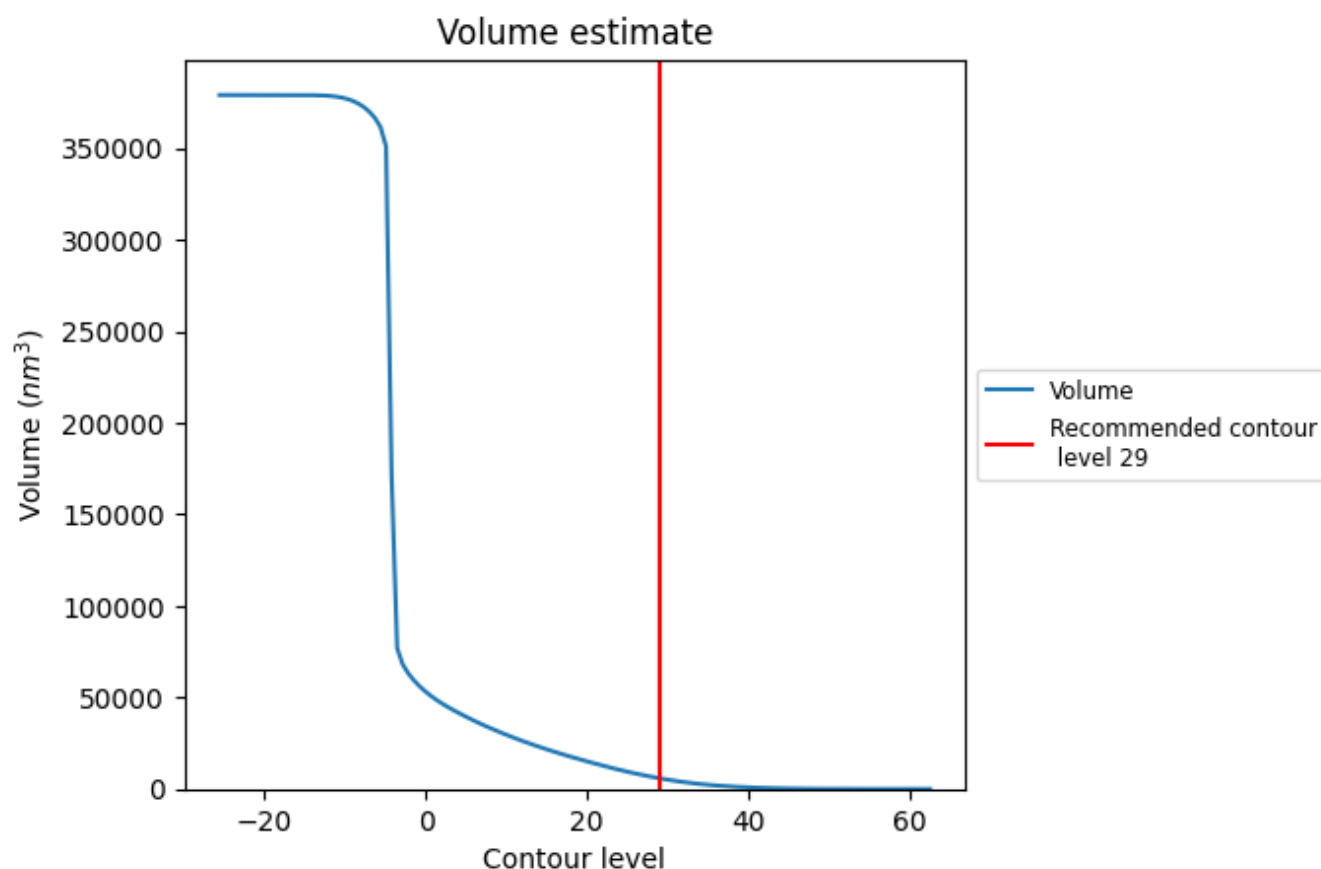
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

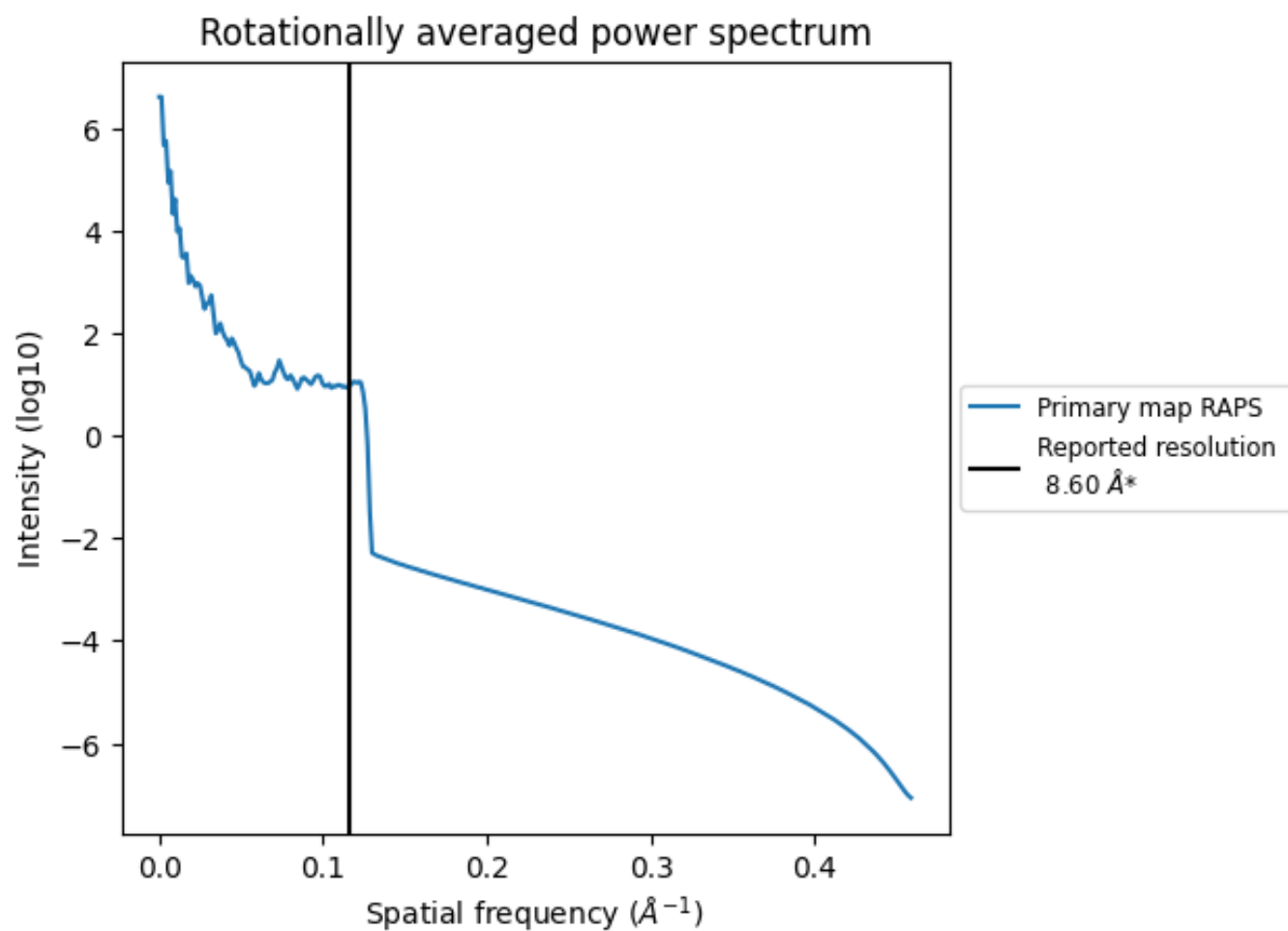
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 5835 nm³; this corresponds to an approximate mass of 5271 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.116 Å⁻¹

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

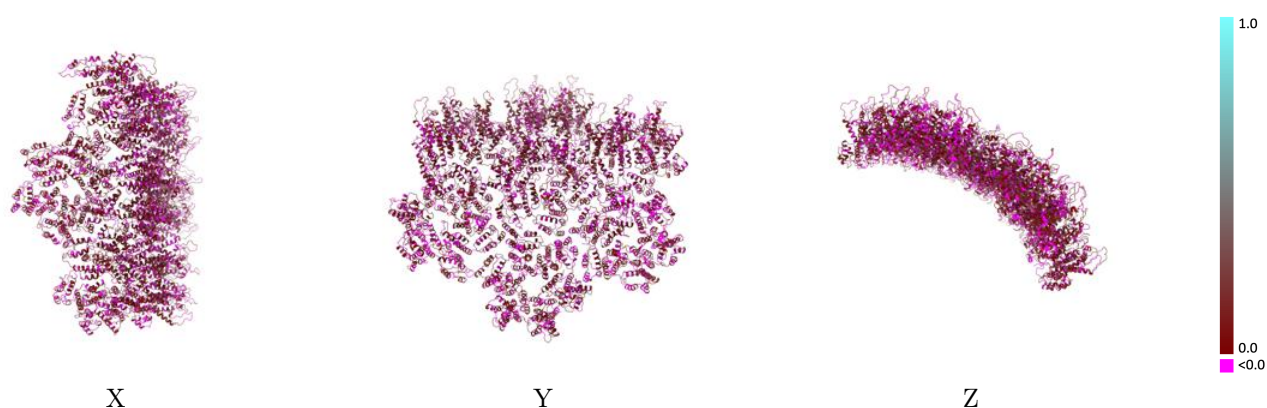
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-5582 and PDB model 3J34. Per-residue inclusion information can be found in section 3 on page 9.

9.1 Map-model overlay [i](#)

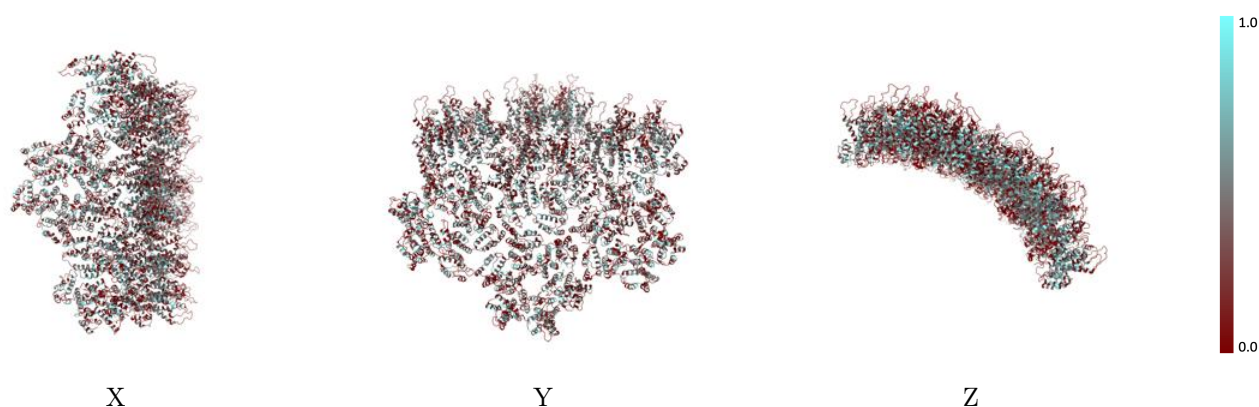
This section was not generated.

9.2 Q-score mapped to coordinate model [i](#)



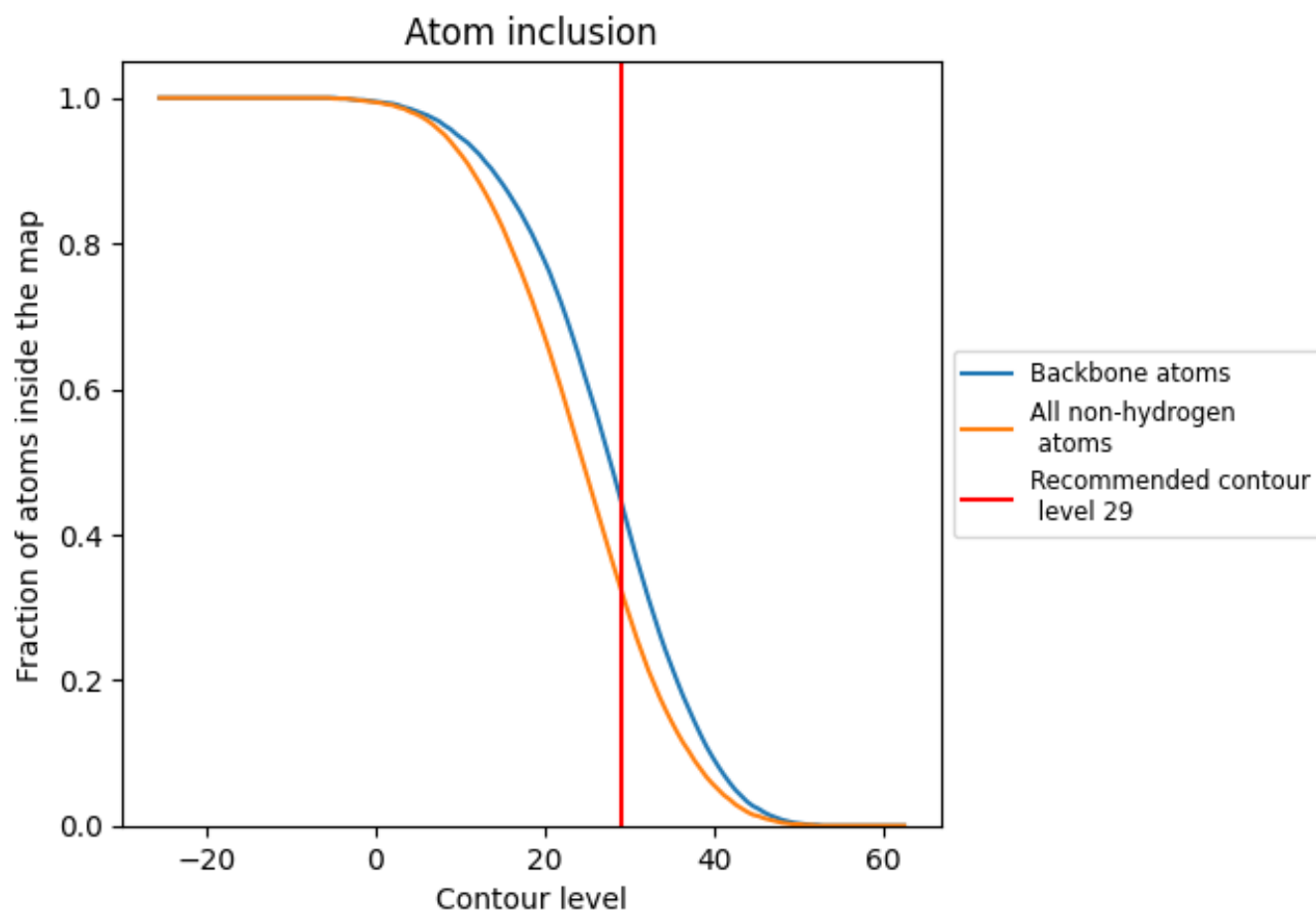
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (29).

9.4 Atom inclusion [i](#)



At the recommended contour level, 45% of all backbone atoms, 33% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (29) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3260	 0.0850
5	 0.3520	 0.1120
6	 0.3270	 0.0750
7	 0.3410	 0.0980
A	 0.3020	 0.0560
B	 0.2750	 0.0340
C	 0.2870	 0.0640
D	 0.3090	 0.0710
E	 0.3130	 0.0720
F	 0.3120	 0.0830
G	 0.3450	 0.0900
H	 0.3460	 0.0960
I	 0.3190	 0.0870
J	 0.3330	 0.0890
K	 0.3580	 0.1060
L	 0.2600	 0.0490
M	 0.3000	 0.0630
N	 0.3410	 0.1020
O	 0.3020	 0.0640
P	 0.3080	 0.0710
Q	 0.2730	 0.0410
R	 0.3300	 0.0970
S	 0.3460	 0.1070
T	 0.3690	 0.1140
U	 0.2810	 0.0720
V	 0.3190	 0.0880
W	 0.3500	 0.1000
X	 0.3460	 0.1040
Y	 0.3760	 0.1190
Z	 0.3090	 0.0740
a	 0.3090	 0.0760
b	 0.3370	 0.0820
c	 0.3780	 0.1180
d	 0.3240	 0.0800
e	 0.3260	 0.0840



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Chain	Atom inclusion	Q-score
f	 0.3440	 0.0920
g	 0.3450	 0.0930
h	 0.2760	 0.0530
i	 0.3460	 0.0830
j	 0.3440	 0.0980
k	 0.3410	 0.1010
l	 0.3300	 0.0850
m	 0.3650	 0.1180