



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 08:00 PM UTC

PDB ID : 5IJO / pdb_00005ijo
EMDB ID : EMD-8085
Title : Alternative composite structure of the inner ring of the human nuclear pore complex (16 copies of Nup188, 16 copies of Nup205)
Authors : Kosinski, J.; Mosalaganti, S.; von Appen, A.; Beck, M.
Deposited on : 2016-03-02
Resolution : 21.40 Å(reported)

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:

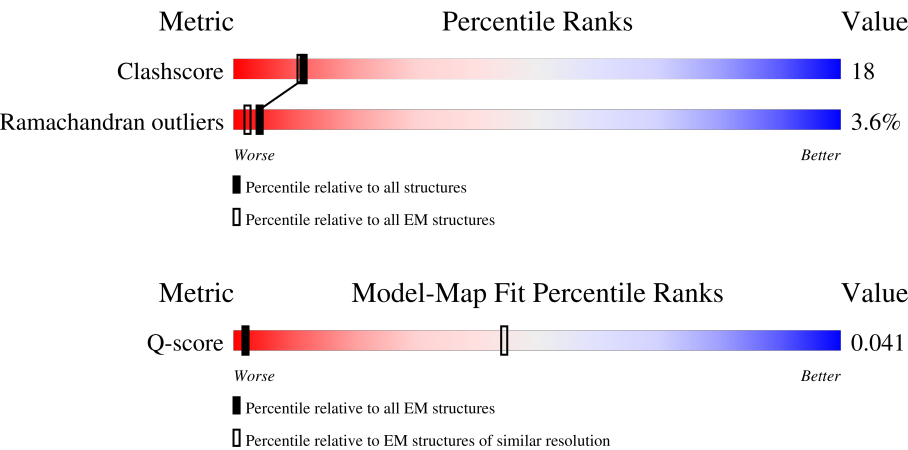
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 21.40 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))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Q-score	-	25397	9 (21.00 - 21.60)

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	A	1391	40% 5% 53%
1	B	1391	5% 40% 6% 53%
1	E	1391	10% 68% 8% 22%
1	K	1391	35% 68% 8% 22%
1	Q	1391	9% 69% 8% 22%

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Mol	Chain	Length	Quality of chain
1	W	1391	
2	C	819	
2	I	819	
2	O	819	
2	U	819	
3	D	2012	
3	P	2012	
4	F	507	
4	L	507	
4	R	507	
4	X	507	
5	G	599	
5	M	599	
5	S	599	
5	Y	599	
6	H	522	
6	N	522	
6	T	522	
6	Z	522	
7	J	1749	
7	V	1749	

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 76526 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 Nuclear pore complex protein Nup155.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	E	1083	Total	C	N	O	0	0
			5366	3200	1083	1083		
1	K	1083	Total	C	N	O	0	0
			5366	3200	1083	1083		
1	Q	1083	Total	C	N	O	0	0
			5366	3200	1083	1083		
1	W	1083	Total	C	N	O	0	0
			5366	3200	1083	1083		

- Molecule 2 is a protein called Nuclear pore complex protein Nup93.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	C	636	Total	C	N	O	0	0
			3152	1880	636	636		
2	I	636	Total	C	N	O	0	0
			3152	1880	636	636		
2	O	636	Total	C	N	O	0	0
			3152	1880	636	636		
2	U	636	Total	C	N	O	0	0
			3152	1880	636	636		

- Molecule 3 is a protein called Nuclear pore complex protein Nup205.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		

- Molecule 4 is a protein called Nucleoporin p54.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	F	335	Total	C	N	O	0	0
			1658	988	335	335		
4	L	335	Total	C	N	O	0	0
			1658	988	335	335		
4	R	335	Total	C	N	O	0	0
			1658	988	335	335		
4	X	335	Total	C	N	O	0	0
			1658	988	335	335		

- Molecule 5 is a protein called Nucleoporin p58/p45.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	G	171	Total	C	N	O	0	0
			853	511	171	171		
5	M	171	Total	C	N	O	0	0
			853	511	171	171		
5	S	171	Total	C	N	O	0	0
			853	511	171	171		
5	Y	171	Total	C	N	O	0	0
			853	511	171	171		

- Molecule 6 is a protein called Nuclear pore glycoprotein p62.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	H	169	Total	C	N	O	0	0
			842	504	169	169		
6	N	169	Total	C	N	O	0	0
			842	504	169	169		
6	T	169	Total	C	N	O	0	0
			842	504	169	169		
6	Z	169	Total	C	N	O	0	0
			842	504	169	169		

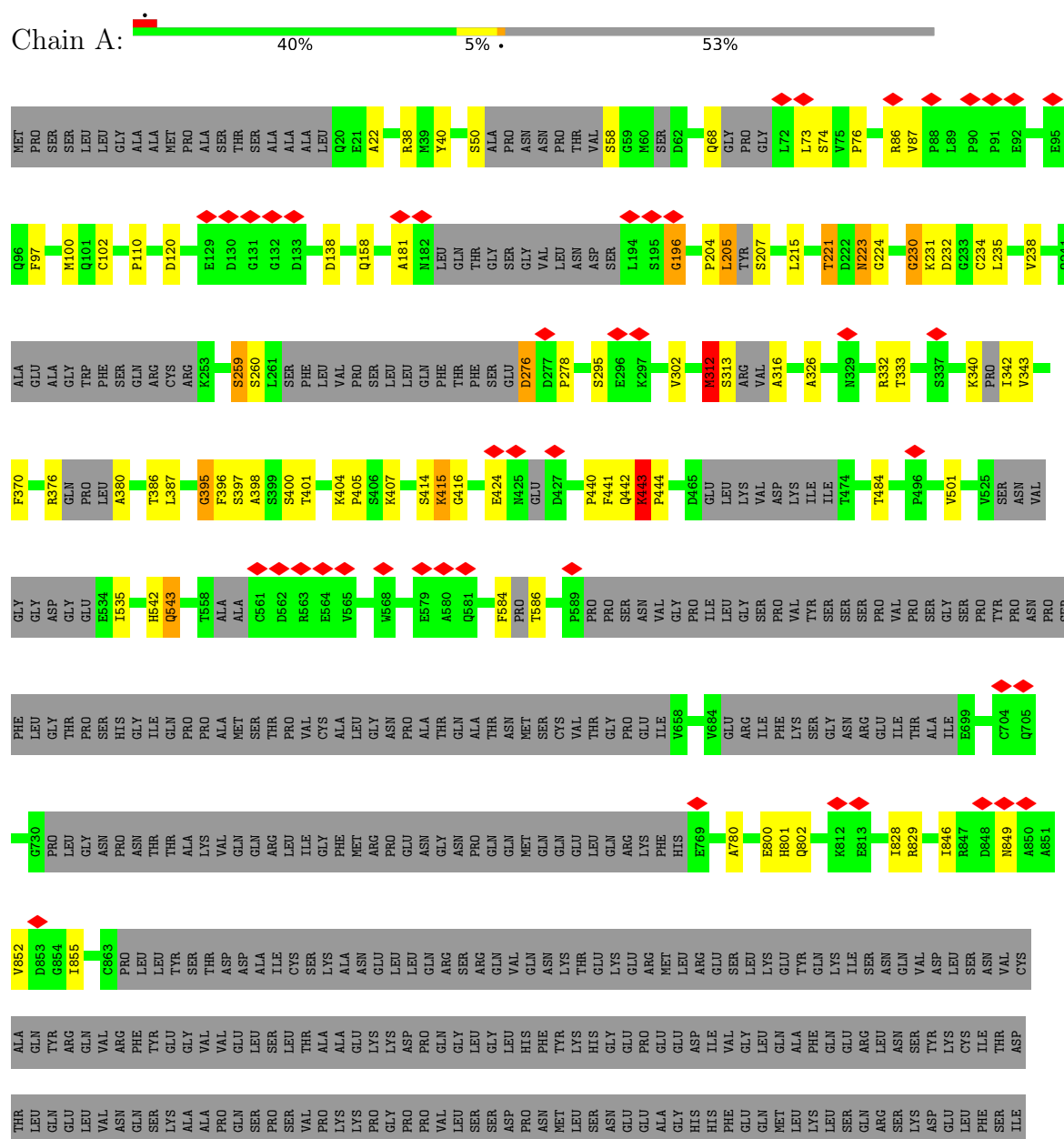
- Molecule 7 is a protein called Nucleoporin NUP188 homolog.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	J	1256	Total	C	N	O	0	0
			6213	3701	1256	1256		
7	V	1256	Total	C	N	O	0	0
			6213	3701	1256	1256		

3 Residue-property plots

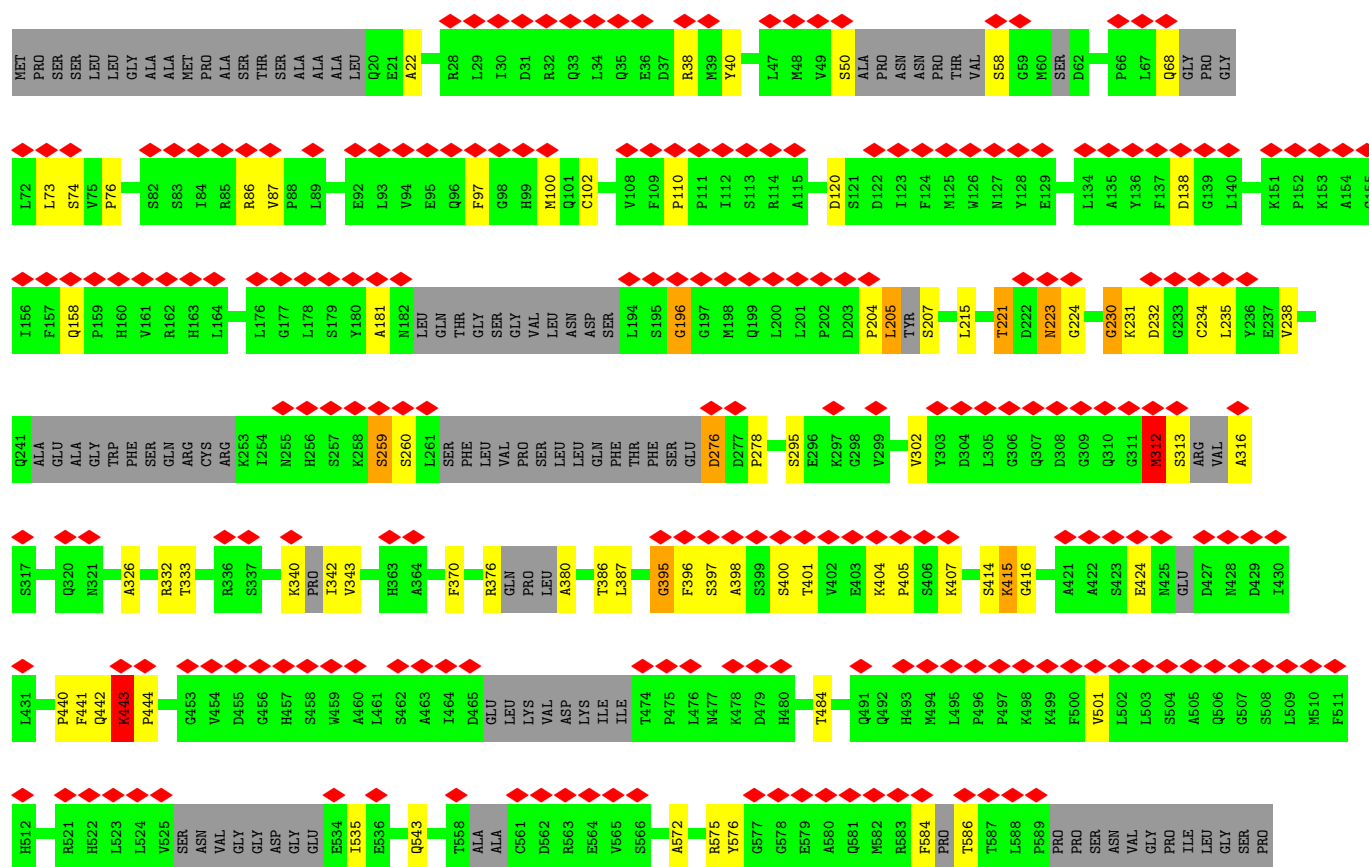
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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.

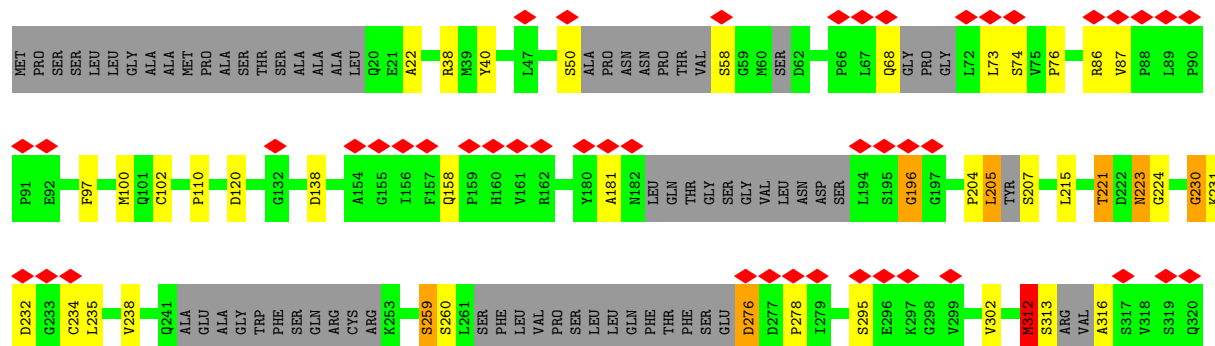
- Molecule 1: Nuclear pore complex protein Nup155

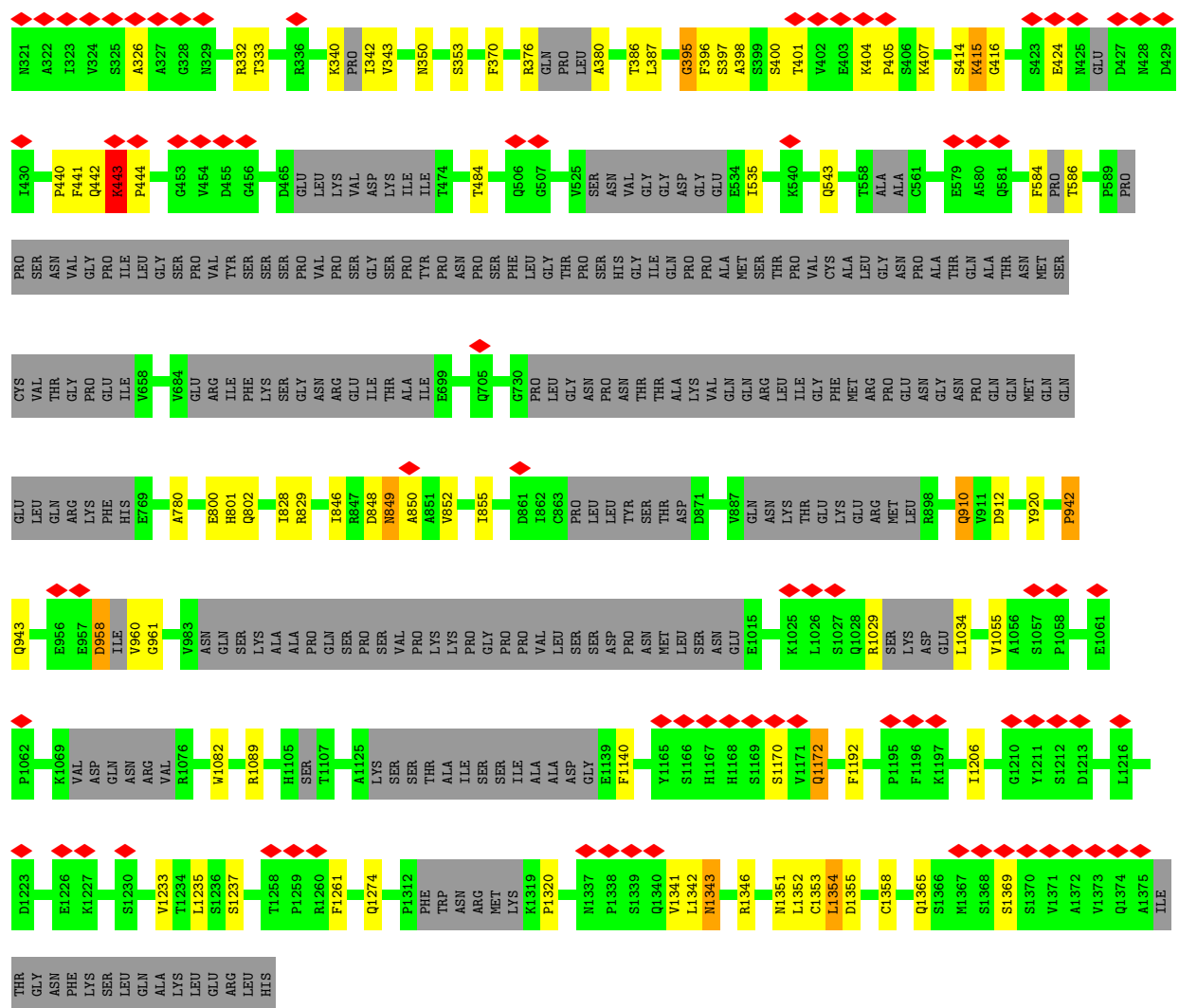




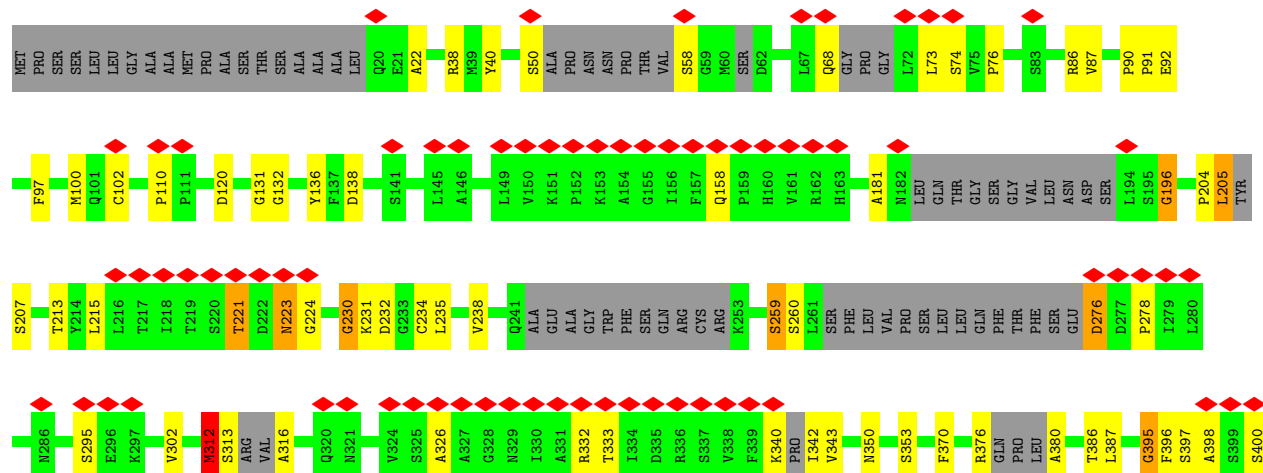
- Molecule 1: Nuclear pore complex protein Nup155

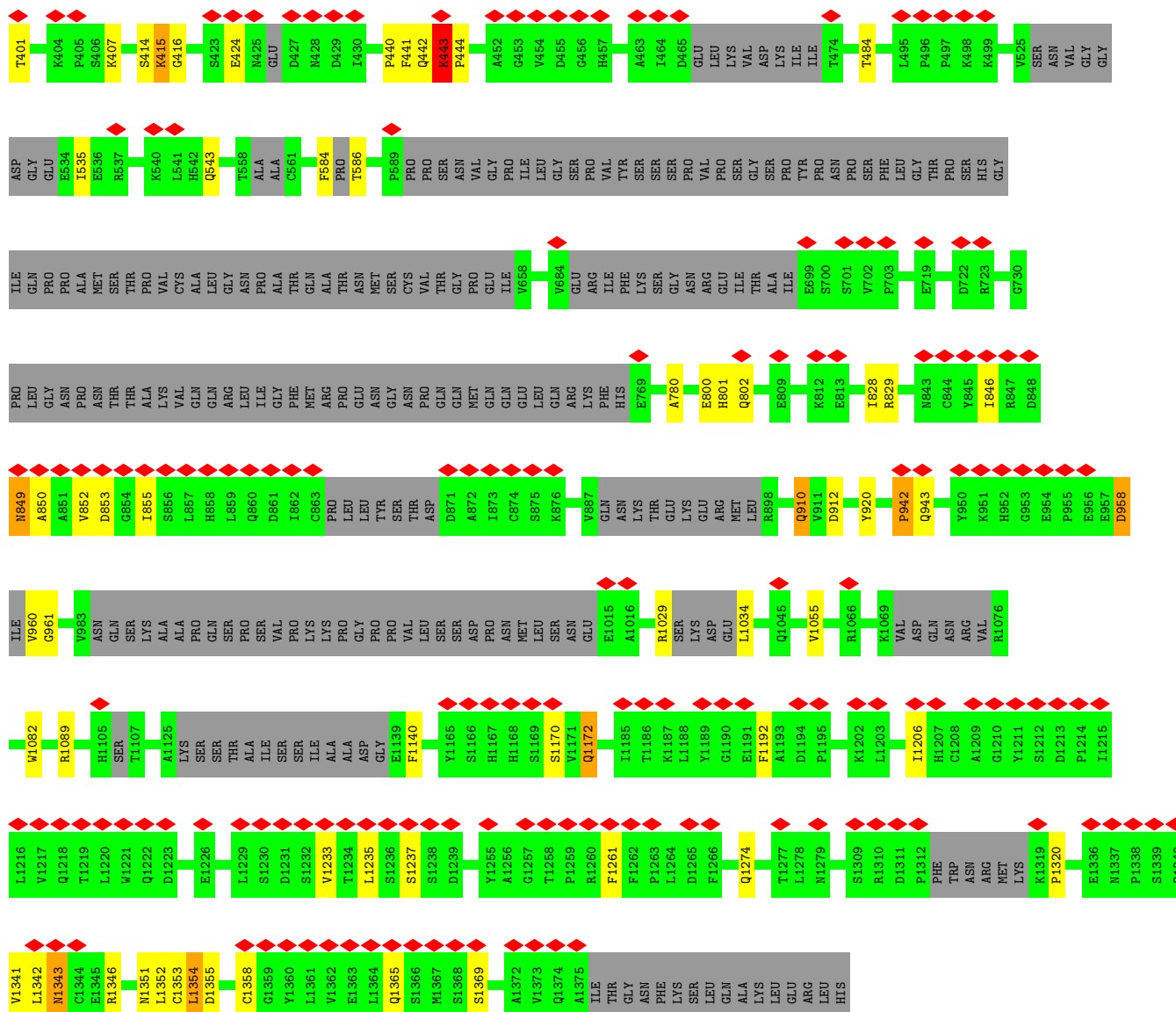




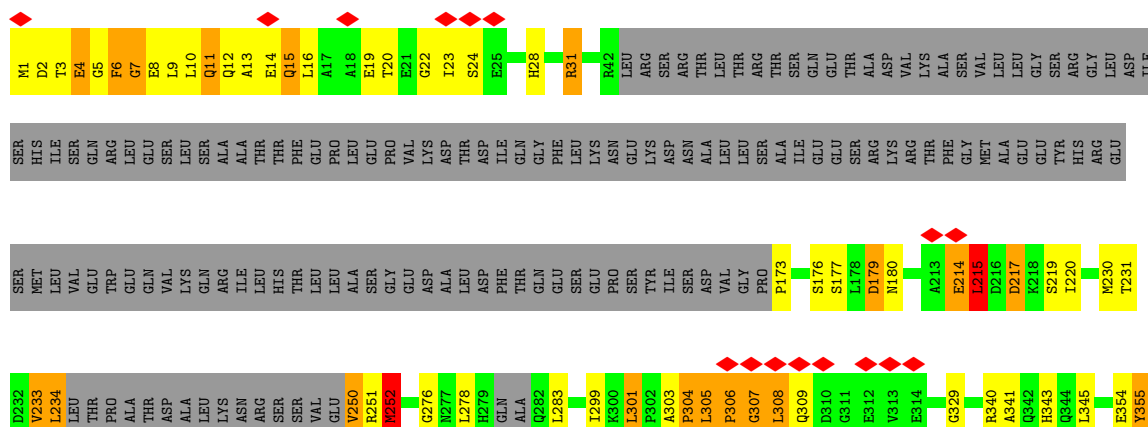


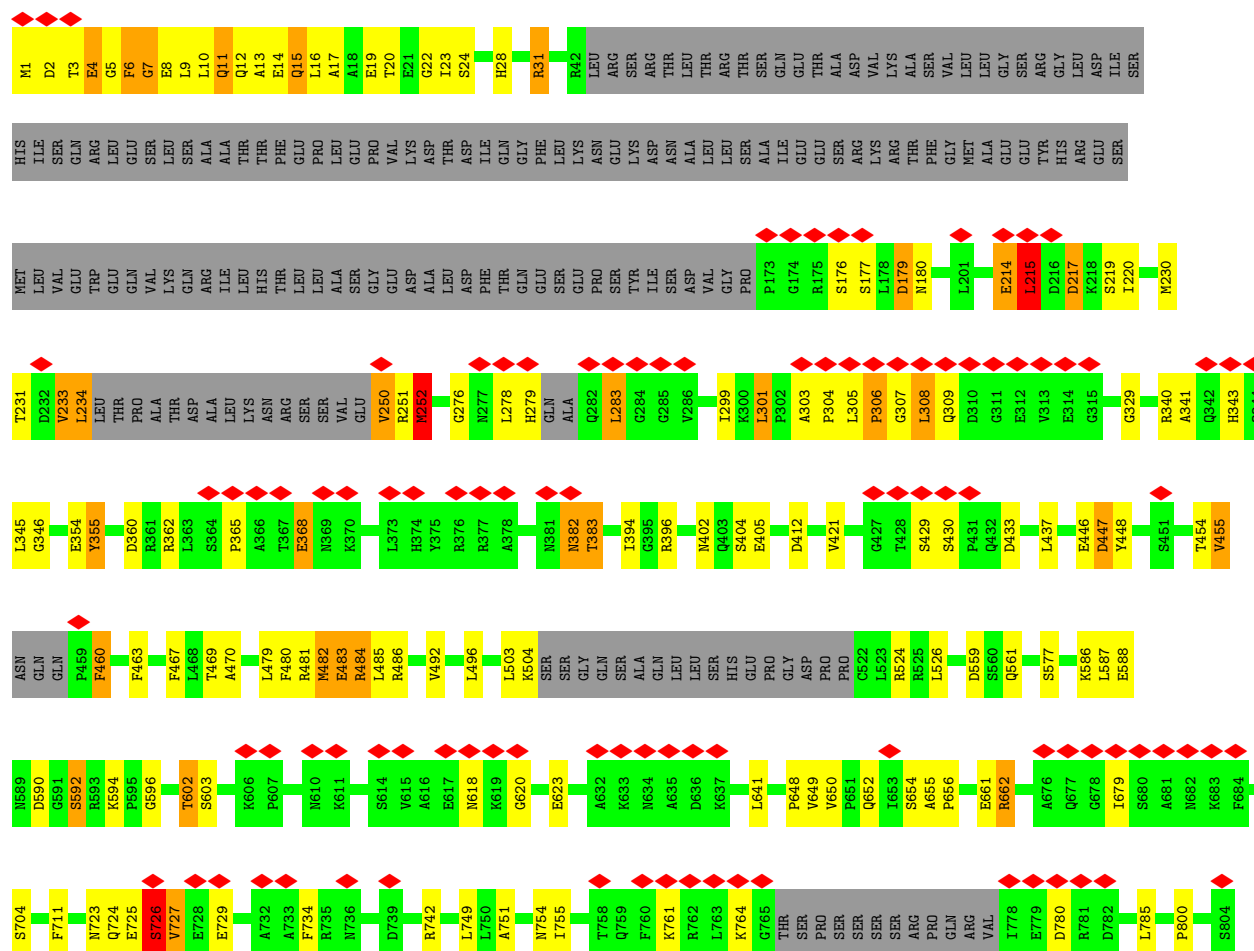
• Molecule 1: Nuclear pore complex protein Nup155

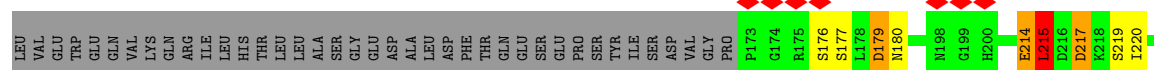


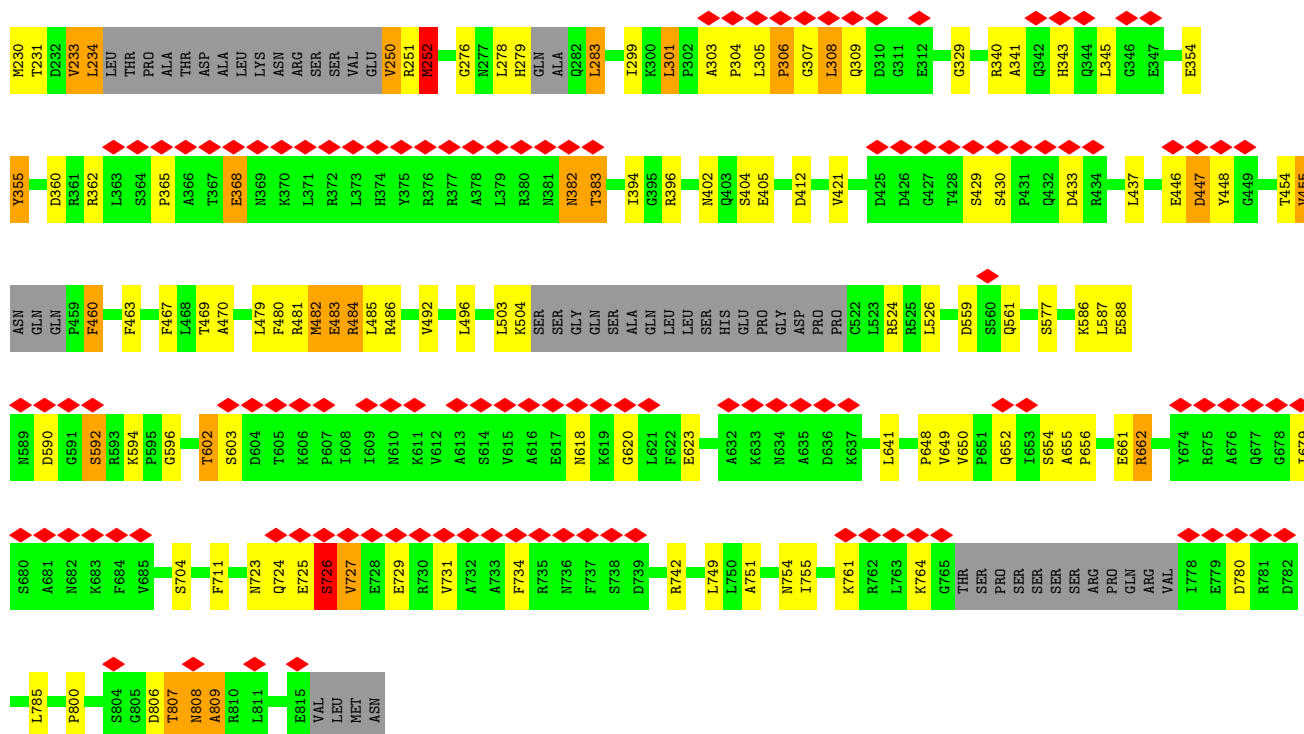


• Molecule 2: Nuclear pore complex protein Nup93

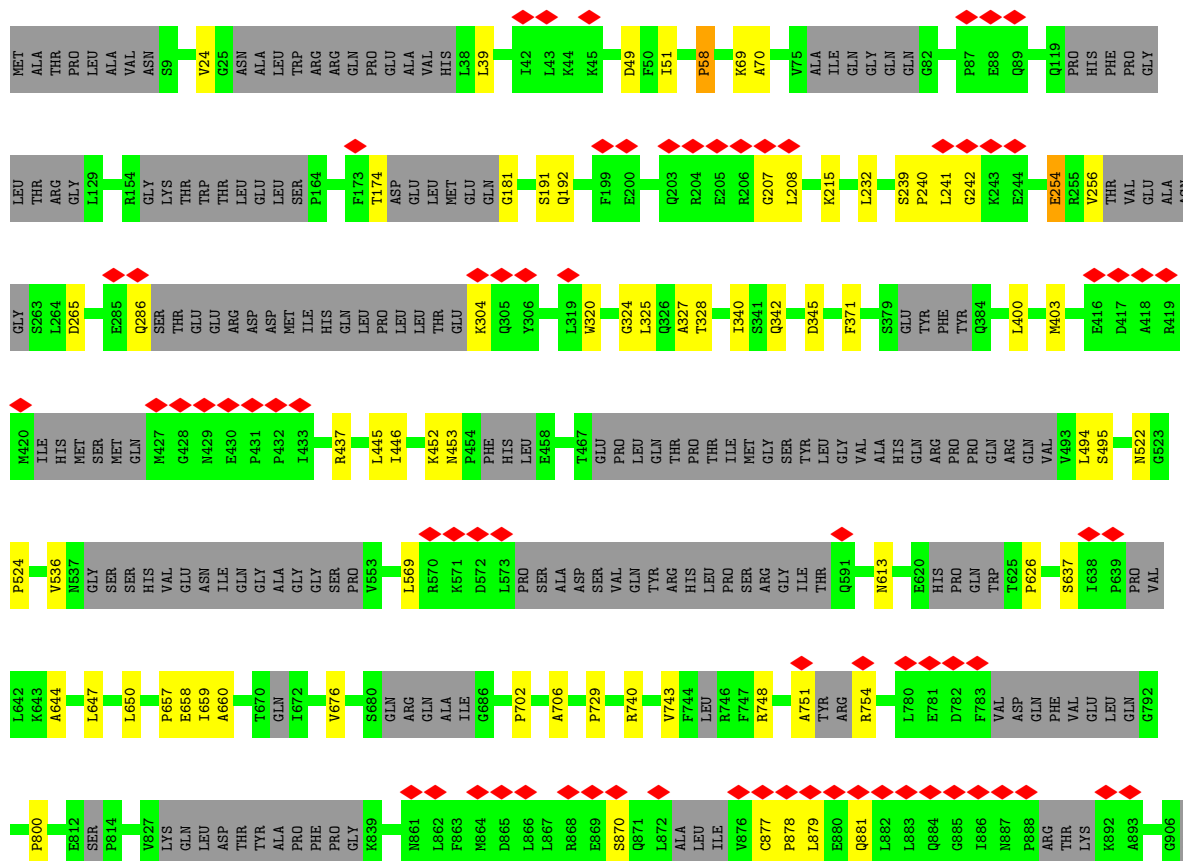
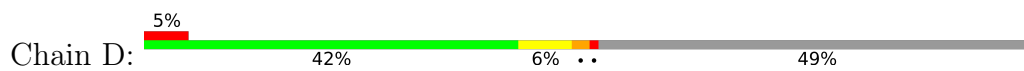






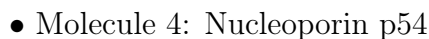


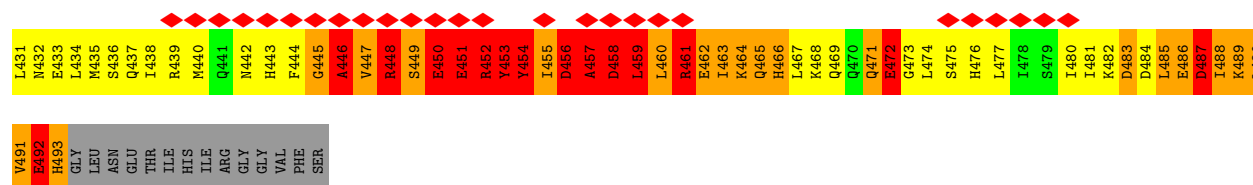
• Molecule 3: Nuclear pore complex protein Nup205



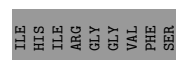
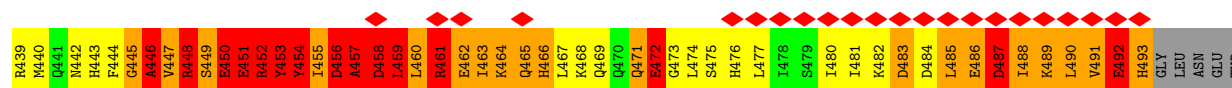
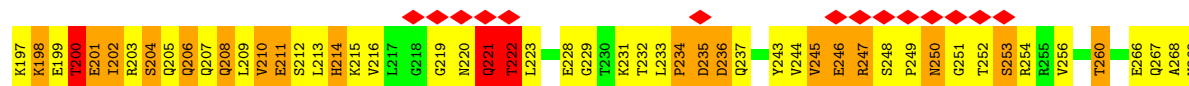
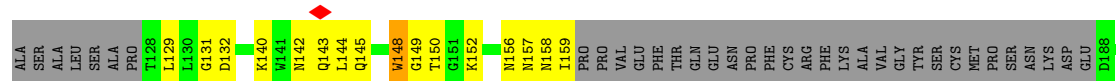
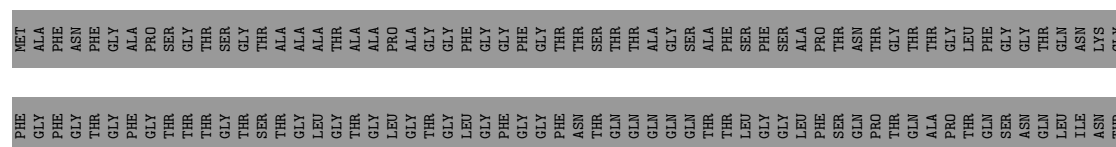
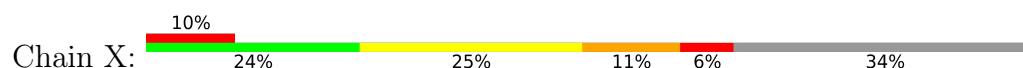




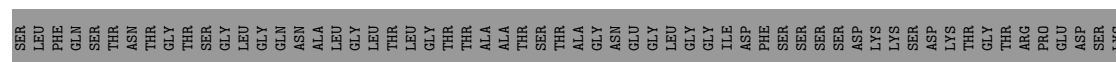
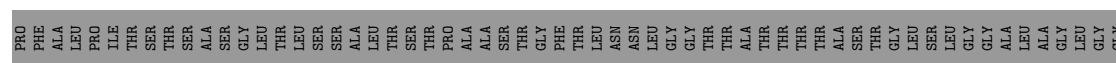
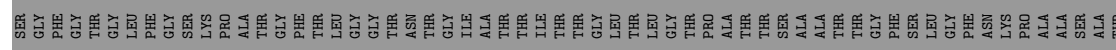
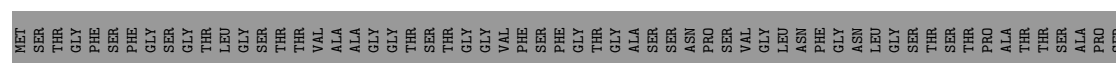


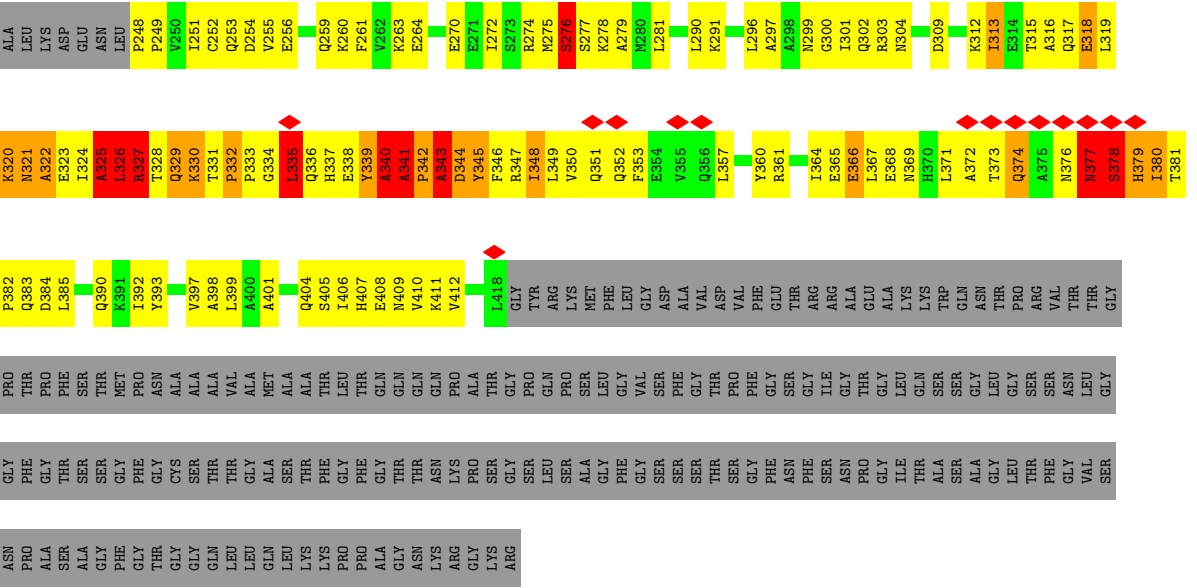


• Molecule 4: Nucleoporin p54

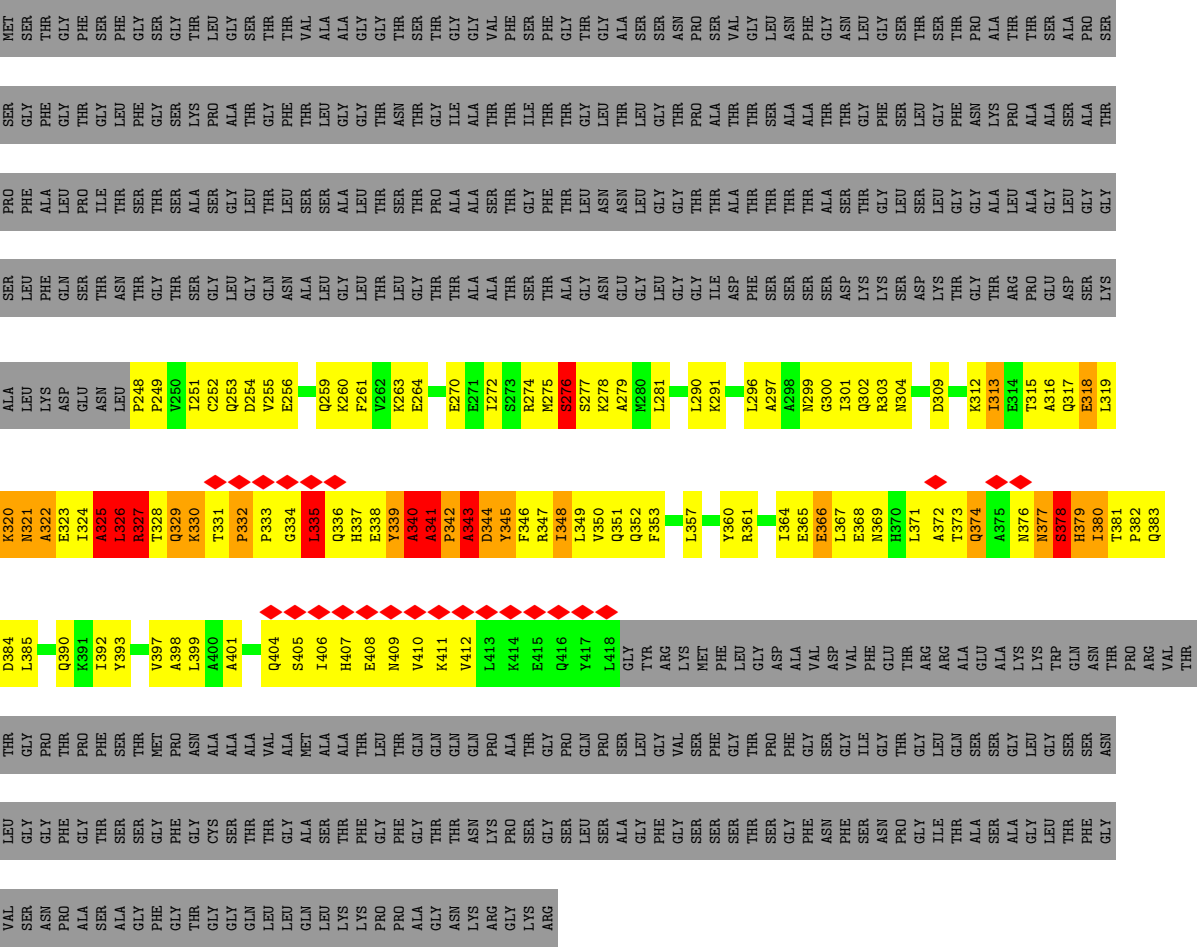


• Molecule 5: Nucleoporin p58/p45





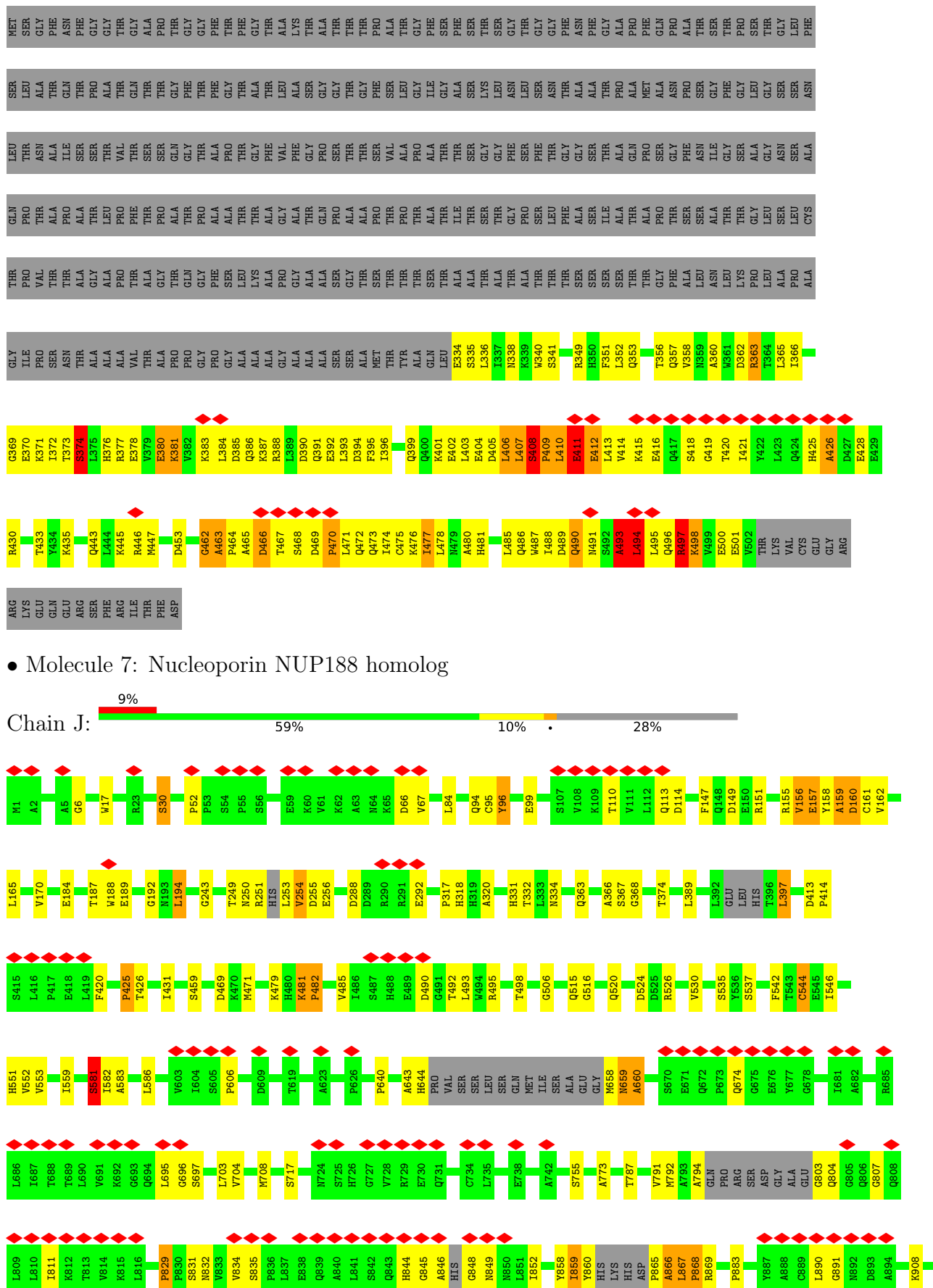
• Molecule 5: Nucleoporin p58/p45



• Molecule 5: Nucleoporin p58/p45









4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, Not provided	
Number of subtomograms used	8400	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	315.784	Depositor
Minimum map value	0.000	Depositor
Average map value	1.328	Depositor
Map value standard deviation	10.659	Depositor
Recommended contour level	36.6	Depositor
Map size ($\text{\AA}$)	964.8, 964.8, 964.8	wwPDB
Map dimensions	144, 144, 144	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	6.7, 6.7, 6.7	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	A	1.57	1/3195 (0.0%)	1.85	64/4421 (1.4%)
1	B	1.57	1/3195 (0.0%)	1.85	63/4421 (1.4%)
1	E	1.56	1/5338 (0.0%)	1.82	91/7399 (1.2%)
1	K	1.56	1/5338 (0.0%)	1.82	92/7399 (1.2%)
1	Q	1.56	1/5338 (0.0%)	1.81	90/7399 (1.2%)
1	W	1.56	1/5338 (0.0%)	1.82	91/7399 (1.2%)
2	C	1.86	32/3143 (1.0%)	2.23	155/4369 (3.5%)
2	I	1.86	32/3143 (1.0%)	2.23	156/4369 (3.6%)
2	O	1.86	32/3143 (1.0%)	2.23	157/4369 (3.6%)
2	U	1.86	31/3143 (1.0%)	2.23	155/4369 (3.5%)
3	D	2.03	103/5066 (2.0%)	2.99	296/7020 (4.2%)
3	P	2.03	101/5066 (2.0%)	2.99	292/7020 (4.2%)
4	F	6.66	342/1655 (20.7%)	5.59	475/2302 (20.6%)
4	L	6.65	342/1655 (20.7%)	5.59	478/2302 (20.8%)
4	R	6.66	341/1655 (20.6%)	5.59	477/2302 (20.7%)
4	X	6.66	341/1655 (20.6%)	5.59	477/2302 (20.7%)
5	G	6.74	153/852 (18.0%)	5.79	240/1190 (20.2%)
5	M	6.69	154/852 (18.1%)	5.78	242/1190 (20.3%)
5	S	6.69	152/852 (17.8%)	5.78	240/1190 (20.2%)
5	Y	6.69	154/852 (18.1%)	5.78	242/1190 (20.3%)
6	H	5.53	133/841 (15.8%)	5.00	246/1174 (21.0%)
6	N	5.53	134/841 (15.9%)	5.00	247/1174 (21.0%)
6	T	5.52	133/841 (15.8%)	5.00	246/1174 (21.0%)
6	Z	5.53	134/841 (15.9%)	5.00	248/1174 (21.1%)
7	J	1.56	4/6201 (0.1%)	1.96	159/8622 (1.8%)
7	V	1.56	4/6201 (0.1%)	1.96	160/8622 (1.9%)
All	All	3.10	2858/76240 (3.7%)	3.03	5879/105862 (5.6%)

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	A	0	1
1	B	0	1
1	E	0	1
1	K	0	1
1	Q	0	1
1	W	0	1
2	C	1	4
2	I	1	4
2	O	1	4
2	U	1	4
3	D	0	21
3	P	0	20
4	F	10	40
4	L	10	40
4	R	10	40
4	X	10	40
5	G	9	10
5	M	9	10
5	S	9	10
5	Y	9	10
6	H	5	5
6	N	5	5
6	T	5	4
6	Z	5	5
7	J	0	3
7	V	0	3
All	All	100	288

All (2858) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	379	HIS	CA-C	72.10	2.49	1.52
5	S	379	HIS	CA-C	72.09	2.49	1.52
5	G	379	HIS	CA-C	72.06	2.49	1.52
5	Y	379	HIS	CA-C	72.03	2.49	1.52
4	F	453	TYR	CA-C	70.43	2.47	1.52
4	X	453	TYR	CA-C	70.42	2.47	1.52
4	R	453	TYR	CA-C	70.33	2.47	1.52
4	L	453	TYR	CA-C	70.31	2.46	1.52
5	G	380	ILE	N-CA	64.97	2.23	1.46
5	S	380	ILE	N-CA	63.38	2.23	1.46
5	M	380	ILE	N-CA	63.36	2.23	1.46
5	Y	380	ILE	N-CA	63.24	2.23	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	379	HIS	C-N	56.04	1.99	1.33
6	T	411	GLU	CA-C	54.83	2.26	1.52
6	N	411	GLU	CA-C	54.80	2.26	1.52
6	H	411	GLU	CA-C	54.78	2.26	1.52
6	Z	411	GLU	CA-C	54.76	2.26	1.52
5	M	379	HIS	C-N	52.60	1.99	1.33
5	Y	379	HIS	C-N	52.58	1.99	1.33
5	S	379	HIS	C-N	52.53	1.99	1.33
4	L	450	GLU	CA-C	47.81	2.16	1.52
4	F	450	GLU	CA-C	47.81	2.16	1.52
4	X	450	GLU	CA-C	47.80	2.16	1.52
4	R	450	GLU	CA-C	47.74	2.16	1.52
4	R	487	ASP	CA-C	42.92	2.13	1.52
4	F	487	ASP	CA-C	42.90	2.13	1.52
4	L	487	ASP	CA-C	42.84	2.13	1.52
4	X	487	ASP	CA-C	42.82	2.13	1.52
4	L	222	THR	N-CA	41.60	1.99	1.46
4	R	222	THR	N-CA	41.59	1.99	1.46
4	X	222	THR	N-CA	41.57	1.99	1.46
4	F	222	THR	N-CA	41.45	1.99	1.46
4	L	493	HIS	CA-C	-38.90	0.71	1.52
4	X	493	HIS	CA-C	-38.87	0.71	1.52
4	F	493	HIS	CA-C	-38.86	0.71	1.52
4	R	493	HIS	CA-C	-38.80	0.71	1.52
4	X	451	GLU	CA-C	36.95	2.02	1.52
4	F	451	GLU	CA-C	36.89	2.02	1.52
4	R	451	GLU	CA-C	36.84	2.02	1.52
5	S	327	ARG	CA-C	36.82	2.02	1.52
5	M	327	ARG	CA-C	36.78	2.02	1.52
4	L	451	GLU	CA-C	36.74	2.02	1.52
5	G	327	ARG	CA-C	36.73	2.02	1.52
5	Y	327	ARG	CA-C	36.69	2.02	1.52
4	R	493	HIS	CA-CB	36.15	2.25	1.53
4	X	493	HIS	CA-CB	36.15	2.25	1.53
4	F	493	HIS	CA-CB	36.11	2.25	1.53
4	L	493	HIS	CA-CB	36.10	2.25	1.53
4	R	458	ASP	C-N	34.96	1.82	1.33
4	X	458	ASP	C-N	34.89	1.82	1.33
4	L	458	ASP	C-N	34.86	1.82	1.33
4	F	458	ASP	C-N	34.83	1.82	1.33
4	L	401	TYR	N-CA	34.08	1.90	1.46
4	X	401	TYR	N-CA	34.06	1.90	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	R	401	TYR	N-CA	34.04	1.90	1.46
4	F	401	TYR	N-CA	34.02	1.90	1.46
5	G	341	ALA	N-CA	33.96	1.94	1.46
5	Y	341	ALA	N-CA	33.95	1.94	1.46
5	S	341	ALA	N-CA	33.91	1.94	1.46
5	M	341	ALA	N-CA	33.87	1.93	1.46
4	R	450	GLU	C-O	31.84	1.64	1.24
4	X	450	GLU	C-O	31.80	1.64	1.24
4	F	450	GLU	C-O	31.79	1.64	1.24
4	L	450	GLU	C-O	31.75	1.64	1.24
4	L	458	ASP	CA-C	31.33	1.94	1.52
4	X	458	ASP	CA-C	31.32	1.94	1.52
4	F	458	ASP	CA-C	31.27	1.94	1.52
4	R	458	ASP	CA-C	31.27	1.94	1.52
6	N	462	GLY	CA-C	30.87	1.85	1.52
6	T	462	GLY	CA-C	30.84	1.85	1.52
6	H	462	GLY	CA-C	30.79	1.85	1.52
6	Z	462	GLY	CA-C	30.79	1.85	1.52
4	F	231	LYS	CA-C	-30.61	1.16	1.52
4	X	231	LYS	CA-C	-30.59	1.16	1.52
4	R	231	LYS	CA-C	-30.59	1.16	1.52
4	L	231	LYS	CA-C	-30.01	1.16	1.52
4	R	343	MET	N-CA	-29.78	1.09	1.46
4	L	343	MET	N-CA	-29.76	1.09	1.46
4	F	343	MET	N-CA	-29.75	1.09	1.46
4	X	343	MET	N-CA	-29.68	1.09	1.46
4	R	455	ILE	C-N	-28.95	0.99	1.33
4	X	457	ALA	N-CA	-28.93	1.08	1.46
4	L	455	ILE	C-N	-28.91	0.99	1.33
4	F	457	ALA	N-CA	-28.89	1.08	1.46
4	X	455	ILE	C-N	-28.86	0.99	1.33
4	L	457	ALA	N-CA	-28.84	1.08	1.46
4	F	455	ILE	C-N	-28.82	0.99	1.33
4	R	457	ALA	N-CA	-28.75	1.09	1.46
6	H	411	GLU	C-N	28.27	1.69	1.33
6	N	411	GLU	C-N	28.20	1.69	1.33
6	Z	411	GLU	C-N	28.20	1.69	1.33
6	T	411	GLU	C-N	28.12	1.69	1.33
4	X	402	ALA	CA-C	27.51	1.89	1.52
4	R	402	ALA	CA-C	27.50	1.89	1.52
4	L	402	ALA	CA-C	27.45	1.89	1.52
4	F	402	ALA	CA-C	27.42	1.89	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	339	TYR	C-N	27.30	1.72	1.33
5	S	339	TYR	C-N	27.27	1.72	1.33
5	Y	339	TYR	C-N	27.27	1.72	1.33
5	G	339	TYR	C-N	27.19	1.72	1.33
5	Y	341	ALA	CA-CB	-27.10	1.10	1.53
5	S	341	ALA	CA-CB	-27.07	1.10	1.53
5	G	341	ALA	CA-CB	-27.06	1.10	1.53
5	M	341	ALA	CA-CB	-27.04	1.10	1.53
5	G	378	SER	CA-C	27.01	1.89	1.52
5	S	378	SER	CA-C	27.00	1.89	1.52
5	Y	378	SER	CA-C	26.98	1.89	1.52
5	M	378	SER	CA-C	26.96	1.88	1.52
4	F	459	LEU	C-N	-26.79	0.98	1.34
4	R	459	LEU	C-N	-26.74	0.98	1.34
4	L	459	LEU	C-N	-26.73	0.98	1.34
4	X	459	LEU	C-N	-26.72	0.98	1.34
5	M	326	LEU	N-CA	26.52	1.80	1.46
5	S	326	LEU	N-CA	26.49	1.80	1.46
5	G	326	LEU	N-CA	26.49	1.80	1.46
5	Y	326	LEU	N-CA	26.49	1.80	1.46
4	L	451	GLU	C-O	26.42	1.57	1.24
4	F	451	GLU	C-O	26.40	1.57	1.24
4	R	451	GLU	C-O	26.27	1.57	1.24
4	X	451	GLU	C-O	26.25	1.57	1.24
4	R	453	TYR	CA-CB	26.24	1.97	1.53
4	L	453	TYR	CA-CB	26.18	1.97	1.53
4	F	453	TYR	CA-CB	26.17	1.97	1.53
4	X	453	TYR	CA-CB	26.16	1.97	1.53
3	D	1508	LYS	CA-C	-26.11	1.17	1.52
3	P	1508	LYS	CA-C	-26.09	1.17	1.52
5	S	352	GLN	N-CA	-26.08	1.14	1.46
5	G	352	GLN	N-CA	-26.07	1.14	1.46
5	M	352	GLN	N-CA	-26.07	1.14	1.46
5	Y	352	GLN	N-CA	-26.06	1.14	1.46
4	F	492	GLU	C-N	25.99	1.69	1.33
4	L	492	GLU	C-N	25.98	1.69	1.33
4	R	492	GLU	C-N	25.95	1.69	1.33
4	X	492	GLU	C-N	25.91	1.69	1.33
4	F	222	THR	CA-C	25.81	1.87	1.52
4	R	222	THR	CA-C	25.79	1.87	1.52
4	X	222	THR	CA-C	25.73	1.87	1.52
4	L	222	THR	CA-C	25.68	1.87	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	400	GLY	N-CA	25.61	1.82	1.45
4	F	400	GLY	N-CA	25.61	1.82	1.45
4	L	400	GLY	N-CA	25.59	1.82	1.45
4	R	400	GLY	N-CA	25.58	1.82	1.45
4	R	459	LEU	CA-C	25.52	1.86	1.52
4	F	459	LEU	CA-C	25.50	1.86	1.52
4	X	459	LEU	CA-C	25.47	1.86	1.52
4	L	459	LEU	CA-C	25.43	1.86	1.52
4	L	299	ASN	CA-C	25.41	1.84	1.52
4	R	299	ASN	CA-C	25.39	1.84	1.52
4	F	299	ASN	CA-C	25.39	1.84	1.52
4	X	299	ASN	CA-C	25.39	1.84	1.52
6	T	409	PRO	CA-C	25.31	1.88	1.52
6	N	409	PRO	CA-C	25.29	1.88	1.52
6	H	409	PRO	CA-C	25.28	1.88	1.52
6	Z	409	PRO	CA-C	25.27	1.88	1.52
4	F	211	GLU	CA-C	-25.17	1.19	1.52
4	X	211	GLU	CA-C	-25.11	1.19	1.52
4	R	211	GLU	CA-C	-25.10	1.19	1.52
4	L	211	GLU	CA-C	-25.07	1.19	1.52
6	N	374	SER	CA-CB	25.02	1.96	1.53
6	Z	374	SER	CA-CB	24.98	1.96	1.53
6	H	374	SER	CA-CB	24.97	1.96	1.53
6	T	374	SER	CA-CB	24.96	1.96	1.53
4	F	229	GLY	CA-C	-24.80	1.24	1.51
4	R	229	GLY	CA-C	-24.75	1.24	1.51
4	X	229	GLY	CA-C	-24.71	1.24	1.51
4	L	229	GLY	CA-C	-24.62	1.24	1.51
5	M	343	ALA	CA-C	24.56	1.85	1.52
5	Y	343	ALA	CA-C	24.52	1.85	1.52
5	S	343	ALA	CA-C	24.52	1.85	1.52
5	G	343	ALA	CA-C	24.47	1.85	1.52
4	L	472	GLU	N-CA	24.41	1.76	1.46
6	H	408	SER	CA-C	-24.40	1.22	1.52
6	T	408	SER	CA-C	-24.35	1.22	1.52
6	N	408	SER	CA-C	-24.34	1.22	1.52
4	R	472	GLU	N-CA	24.34	1.76	1.46
4	X	472	GLU	N-CA	24.33	1.76	1.46
4	F	472	GLU	N-CA	24.32	1.76	1.46
6	Z	408	SER	CA-C	-24.29	1.22	1.52
5	S	327	ARG	N-CA	24.16	1.77	1.46
5	M	327	ARG	N-CA	24.14	1.77	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Y	327	ARG	N-CA	24.13	1.77	1.46
5	G	327	ARG	N-CA	24.10	1.77	1.46
5	M	344	ASP	CA-C	-23.85	1.20	1.52
5	G	344	ASP	CA-C	-23.76	1.21	1.52
5	S	344	ASP	CA-C	-23.75	1.21	1.52
6	N	494	LEU	CA-C	-23.73	1.21	1.52
2	O	15	GLN	CA-C	23.72	1.84	1.52
5	Y	344	ASP	CA-C	-23.72	1.21	1.52
6	H	494	LEU	CA-C	-23.71	1.21	1.52
4	L	367	THR	CA-C	23.68	1.85	1.52
2	C	15	GLN	CA-C	23.67	1.84	1.52
2	I	15	GLN	CA-C	23.66	1.84	1.52
4	R	367	THR	CA-C	23.66	1.85	1.52
2	U	15	GLN	CA-C	23.66	1.84	1.52
4	X	367	THR	CA-C	23.65	1.85	1.52
6	Z	494	LEU	CA-C	-23.65	1.21	1.52
6	T	494	LEU	CA-C	-23.62	1.21	1.52
4	F	367	THR	CA-C	23.61	1.85	1.52
5	Y	340	ALA	N-CA	-23.46	1.17	1.46
5	S	379	HIS	N-CA	23.44	1.76	1.46
5	G	340	ALA	N-CA	-23.42	1.17	1.46
5	G	379	HIS	N-CA	23.41	1.76	1.46
5	M	340	ALA	N-CA	-23.41	1.17	1.46
5	S	340	ALA	N-CA	-23.37	1.17	1.46
5	Y	379	HIS	N-CA	23.37	1.76	1.46
5	M	379	HIS	N-CA	23.32	1.76	1.46
4	R	454	TYR	CA-C	23.22	1.83	1.52
4	X	454	TYR	CA-C	23.20	1.83	1.52
4	R	200	THR	N-CA	-23.17	1.18	1.46
4	L	454	TYR	CA-C	23.16	1.83	1.52
4	F	454	TYR	CA-C	23.16	1.83	1.52
4	L	200	THR	N-CA	-23.13	1.18	1.46
4	X	200	THR	N-CA	-23.09	1.18	1.46
4	F	200	THR	N-CA	-23.08	1.18	1.46
2	U	28	HIS	CA-C	-23.07	1.25	1.52
2	C	28	HIS	CA-C	-23.04	1.25	1.52
2	I	28	HIS	CA-C	-23.02	1.25	1.52
2	O	28	HIS	CA-C	-23.00	1.25	1.52
4	X	453	TYR	N-CA	22.73	1.75	1.46
4	F	453	TYR	N-CA	22.72	1.75	1.46
4	L	453	TYR	N-CA	22.68	1.75	1.46
4	R	453	TYR	N-CA	22.68	1.75	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	454	TYR	C-N	22.30	1.64	1.33
4	R	454	TYR	C-N	22.30	1.64	1.33
4	L	454	TYR	C-N	22.29	1.64	1.33
6	T	363	ARG	CA-C	-22.27	1.23	1.52
6	N	363	ARG	CA-C	-22.24	1.23	1.52
6	H	363	ARG	CA-C	-22.23	1.23	1.52
4	X	454	TYR	C-N	22.20	1.63	1.33
5	G	276	SER	CA-C	22.19	1.82	1.52
5	M	276	SER	CA-C	22.18	1.82	1.52
6	Z	363	ARG	CA-C	-22.17	1.23	1.52
5	S	276	SER	CA-C	22.15	1.82	1.52
5	Y	276	SER	CA-C	22.09	1.82	1.52
4	L	455	ILE	CA-CB	21.85	1.84	1.54
4	X	455	ILE	CA-CB	21.84	1.84	1.54
4	R	455	ILE	CA-CB	21.82	1.84	1.54
4	F	455	ILE	CA-CB	21.77	1.84	1.54
4	F	335	ARG	CA-C	-21.71	1.25	1.52
4	L	335	ARG	CA-C	-21.70	1.25	1.52
4	X	335	ARG	CA-C	-21.70	1.25	1.52
4	R	335	ARG	CA-C	-21.61	1.25	1.52
4	L	232	THR	CA-C	-21.57	1.24	1.52
4	R	232	THR	CA-C	-21.57	1.24	1.52
4	X	232	THR	CA-C	-21.57	1.24	1.52
4	F	232	THR	CA-C	-21.54	1.24	1.52
4	L	453	TYR	C-O	21.39	1.50	1.24
4	R	453	TYR	C-O	21.33	1.50	1.24
4	X	453	TYR	C-O	21.31	1.50	1.24
4	F	453	TYR	C-O	21.27	1.50	1.24
5	S	328	THR	CA-C	-21.26	1.23	1.52
5	G	328	THR	CA-C	-21.26	1.23	1.52
5	Y	328	THR	CA-C	-21.21	1.23	1.52
5	M	328	THR	CA-C	-21.20	1.23	1.52
3	D	1517	SER	CA-C	-21.04	1.24	1.52
3	P	1517	SER	CA-C	-21.03	1.24	1.52
5	S	331	THR	CA-C	-20.89	1.26	1.52
5	M	331	THR	CA-C	-20.86	1.26	1.52
5	Y	331	THR	CA-C	-20.80	1.26	1.52
5	G	331	THR	CA-C	-20.78	1.26	1.52
6	N	413	LEU	N-CA	-20.66	1.21	1.46
6	Z	413	LEU	N-CA	-20.61	1.21	1.46
6	H	413	LEU	N-CA	-20.59	1.21	1.46
6	T	413	LEU	N-CA	-20.51	1.21	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	377	ARG	CA-C	-20.17	1.25	1.52
5	S	327	ARG	CA-CB	20.13	1.87	1.53
5	G	327	ARG	CA-CB	20.12	1.87	1.53
4	F	328	VAL	CA-C	20.11	1.75	1.52
6	T	377	ARG	CA-C	-20.11	1.25	1.52
6	Z	377	ARG	CA-C	-20.11	1.25	1.52
5	M	327	ARG	CA-CB	20.10	1.87	1.53
5	Y	327	ARG	CA-CB	20.09	1.87	1.53
4	F	221	GLN	C-N	20.08	1.61	1.33
5	M	313	ILE	CA-CB	-20.07	1.30	1.54
6	H	377	ARG	CA-C	-20.07	1.25	1.52
4	X	221	GLN	C-N	20.07	1.61	1.33
4	X	328	VAL	CA-C	20.05	1.75	1.52
5	G	313	ILE	CA-CB	-20.05	1.30	1.54
4	X	447	VAL	CA-CB	20.05	1.78	1.54
4	L	328	VAL	CA-C	20.04	1.75	1.52
4	L	221	GLN	C-N	20.02	1.61	1.33
4	R	221	GLN	C-N	20.02	1.61	1.33
6	Z	381	LYS	N-CA	20.02	1.72	1.46
4	L	447	VAL	CA-CB	20.01	1.78	1.54
4	R	447	VAL	CA-CB	20.00	1.78	1.54
4	F	464	LYS	CA-C	-20.00	1.25	1.52
4	X	464	LYS	CA-C	-20.00	1.25	1.52
5	S	313	ILE	CA-CB	-19.99	1.31	1.54
6	H	381	LYS	N-CA	19.95	1.71	1.46
4	R	328	VAL	CA-C	19.95	1.75	1.52
4	L	450	GLU	N-CA	19.94	1.72	1.46
4	F	450	GLU	N-CA	19.93	1.71	1.46
6	T	381	LYS	N-CA	19.92	1.71	1.46
4	R	464	LYS	CA-C	-19.92	1.26	1.52
4	R	458	ASP	CA-CB	19.91	1.87	1.53
5	Y	313	ILE	CA-CB	-19.90	1.31	1.54
4	F	447	VAL	CA-CB	19.89	1.78	1.54
4	L	464	LYS	CA-C	-19.89	1.26	1.52
4	F	458	ASP	CA-CB	19.87	1.87	1.53
6	N	381	LYS	N-CA	19.87	1.71	1.46
4	L	458	ASP	CA-CB	19.85	1.87	1.53
4	X	450	GLU	N-CA	19.84	1.71	1.46
4	X	458	ASP	CA-CB	19.84	1.87	1.53
4	R	450	GLU	N-CA	19.83	1.71	1.46
6	N	387	LYS	CA-C	-19.79	1.27	1.52
6	T	387	LYS	CA-C	-19.75	1.27	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	387	LYS	CA-C	-19.74	1.27	1.52
6	Z	387	LYS	CA-C	-19.72	1.27	1.52
5	S	326	LEU	CA-C	19.70	1.79	1.52
5	G	326	LEU	CA-C	19.68	1.79	1.52
5	M	326	LEU	CA-C	19.67	1.79	1.52
5	Y	326	LEU	CA-C	19.66	1.79	1.52
4	F	456	ASP	CA-C	19.48	1.76	1.53
4	R	456	ASP	CA-C	19.47	1.76	1.53
4	L	456	ASP	CA-C	19.43	1.76	1.53
4	X	456	ASP	CA-C	19.43	1.76	1.53
5	Y	378	SER	C-N	19.41	1.60	1.33
5	M	378	SER	C-N	19.39	1.60	1.33
5	S	378	SER	C-N	19.30	1.60	1.33
5	G	378	SER	C-N	19.30	1.60	1.33
6	Z	463	ALA	N-CA	19.27	1.74	1.46
4	R	210	VAL	CA-CB	-19.25	1.28	1.54
4	X	210	VAL	CA-CB	-19.20	1.28	1.54
6	T	463	ALA	N-CA	19.15	1.74	1.46
6	H	463	ALA	N-CA	19.15	1.74	1.46
4	F	210	VAL	CA-CB	-19.14	1.28	1.54
4	L	210	VAL	CA-CB	-19.13	1.28	1.54
6	N	463	ALA	N-CA	19.09	1.74	1.46
5	S	340	ALA	CA-C	18.96	1.72	1.53
5	Y	340	ALA	CA-C	18.94	1.72	1.53
5	M	340	ALA	CA-C	18.92	1.72	1.53
5	G	340	ALA	CA-C	18.84	1.72	1.53
4	X	483	ASP	CA-CB	18.79	1.85	1.53
4	L	483	ASP	CA-CB	18.76	1.85	1.53
4	F	483	ASP	CA-CB	18.74	1.85	1.53
4	R	483	ASP	CA-CB	18.72	1.85	1.53
2	C	12	GLN	CA-C	-18.59	1.28	1.52
2	I	12	GLN	CA-C	-18.59	1.28	1.52
4	X	311	GLN	CA-C	18.57	1.77	1.52
4	F	311	GLN	CA-C	18.56	1.77	1.52
2	U	12	GLN	CA-C	-18.55	1.28	1.52
4	L	311	GLN	CA-C	18.53	1.77	1.52
2	O	12	GLN	CA-C	-18.50	1.28	1.52
4	R	311	GLN	CA-C	18.48	1.77	1.52
5	S	325	ALA	CA-C	18.40	1.78	1.52
5	G	325	ALA	CA-C	18.40	1.78	1.52
5	Y	325	ALA	CA-C	18.39	1.77	1.52
4	X	328	VAL	C-N	18.37	1.57	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	497	ARG	N-CA	18.36	1.69	1.46
4	L	328	VAL	C-N	18.35	1.57	1.33
4	R	328	VAL	C-N	18.35	1.57	1.33
6	Z	497	ARG	N-CA	18.34	1.69	1.46
5	M	325	ALA	CA-C	18.34	1.77	1.52
6	T	497	ARG	N-CA	18.28	1.69	1.46
6	N	497	ARG	N-CA	18.27	1.69	1.46
4	X	267	GLN	CA-C	-18.22	1.29	1.52
4	F	328	VAL	C-N	18.21	1.57	1.33
4	R	267	GLN	CA-C	-18.21	1.29	1.52
4	L	267	GLN	CA-C	-18.19	1.29	1.52
4	R	488	ILE	N-CA	18.17	1.67	1.46
4	F	267	GLN	CA-C	-18.15	1.29	1.52
4	X	488	ILE	N-CA	18.15	1.67	1.46
4	F	488	ILE	N-CA	18.12	1.67	1.46
2	I	6	PHE	CA-CB	-18.09	1.21	1.53
2	O	6	PHE	CA-CB	-18.09	1.21	1.53
4	L	488	ILE	N-CA	18.07	1.67	1.46
4	R	472	GLU	CA-CB	-18.07	1.24	1.53
2	C	6	PHE	CA-CB	-18.04	1.21	1.53
4	X	472	GLU	CA-CB	-18.01	1.24	1.53
2	U	6	PHE	CA-CB	-17.98	1.21	1.53
4	L	472	GLU	CA-CB	-17.98	1.24	1.53
4	F	472	GLU	CA-CB	-17.96	1.24	1.53
4	L	229	GLY	N-CA	17.94	1.64	1.45
4	F	229	GLY	N-CA	17.91	1.64	1.45
4	R	229	GLY	N-CA	17.88	1.64	1.45
4	L	471	GLN	CA-C	-17.87	1.29	1.52
4	X	229	GLY	N-CA	17.85	1.64	1.45
4	R	471	GLN	CA-C	-17.84	1.29	1.52
4	X	471	GLN	CA-C	-17.80	1.29	1.52
4	F	471	GLN	CA-C	-17.78	1.29	1.52
4	R	208	GLN	CA-CB	-17.71	1.25	1.53
5	Y	320	LYS	N-CA	-17.70	1.23	1.46
5	S	320	LYS	N-CA	-17.70	1.23	1.46
5	M	320	LYS	N-CA	-17.70	1.23	1.46
4	X	208	GLN	CA-CB	-17.69	1.25	1.53
4	F	208	GLN	CA-CB	-17.68	1.25	1.53
4	L	208	GLN	CA-CB	-17.68	1.25	1.53
5	G	320	LYS	N-CA	-17.66	1.23	1.46
4	F	427	PHE	CA-C	-17.58	1.30	1.52
4	L	457	ALA	CA-CB	17.55	1.83	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	R	427	PHE	CA-C	-17.55	1.30	1.52
4	R	457	ALA	CA-CB	17.54	1.83	1.53
4	X	427	PHE	CA-C	-17.54	1.30	1.52
4	L	427	PHE	CA-C	-17.53	1.30	1.52
4	F	457	ALA	CA-CB	17.52	1.83	1.53
4	X	457	ALA	CA-CB	17.48	1.83	1.53
4	F	329	GLY	N-CA	17.32	1.72	1.45
4	R	201	GLU	CA-C	-17.32	1.28	1.52
4	F	201	GLU	CA-C	-17.30	1.28	1.52
4	L	201	GLU	CA-C	-17.29	1.28	1.52
4	F	468	LYS	CA-C	-17.25	1.29	1.52
4	X	329	GLY	N-CA	17.25	1.71	1.45
4	L	329	GLY	N-CA	17.25	1.71	1.45
4	X	201	GLU	CA-C	-17.25	1.28	1.52
4	R	329	GLY	N-CA	17.23	1.71	1.45
6	H	374	SER	N-CA	-17.22	1.23	1.46
4	R	468	LYS	CA-C	-17.22	1.29	1.52
6	N	374	SER	N-CA	-17.21	1.23	1.46
4	L	468	LYS	CA-C	-17.19	1.29	1.52
4	X	468	LYS	CA-C	-17.19	1.29	1.52
6	T	374	SER	N-CA	-17.17	1.23	1.46
6	Z	374	SER	N-CA	-17.16	1.23	1.46
5	S	329	GLN	CA-C	-17.13	1.30	1.53
5	G	329	GLN	CA-C	-17.12	1.30	1.53
5	M	329	GLN	CA-C	-17.10	1.30	1.53
5	Y	329	GLN	CA-C	-17.07	1.30	1.53
6	H	373	THR	CA-CB	-17.00	1.26	1.53
6	T	373	THR	CA-CB	-16.99	1.26	1.53
6	Z	373	THR	CA-CB	-16.98	1.26	1.53
6	T	487	TRP	N-CA	-16.96	1.25	1.46
6	N	487	TRP	N-CA	-16.93	1.25	1.46
4	R	463	ILE	CA-C	16.92	1.74	1.52
6	N	373	THR	CA-CB	-16.91	1.26	1.53
4	X	463	ILE	CA-C	16.91	1.74	1.52
6	H	487	TRP	N-CA	-16.91	1.25	1.46
6	Z	487	TRP	N-CA	-16.90	1.25	1.46
4	L	463	ILE	CA-C	16.87	1.74	1.52
4	F	463	ILE	CA-C	16.81	1.74	1.52
4	L	402	ALA	CA-CB	-16.81	1.25	1.53
4	X	402	ALA	CA-CB	-16.79	1.25	1.53
4	F	402	ALA	CA-CB	-16.76	1.25	1.53
4	R	402	ALA	CA-CB	-16.75	1.25	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	423	ALA	CA-C	-16.68	1.31	1.52
4	X	492	GLU	CA-C	16.65	1.75	1.52
4	R	492	GLU	CA-C	16.63	1.75	1.52
4	F	492	GLU	CA-C	16.60	1.75	1.52
4	L	423	ALA	CA-C	-16.60	1.31	1.52
4	L	492	GLU	CA-C	16.57	1.75	1.52
4	R	423	ALA	CA-C	-16.56	1.31	1.52
4	X	423	ALA	CA-C	-16.56	1.31	1.52
4	F	484	ASP	CA-C	-16.34	1.32	1.52
4	R	456	ASP	N-CA	-16.31	1.23	1.46
4	F	260	THR	CA-CB	16.30	1.82	1.53
4	R	260	THR	CA-CB	16.30	1.82	1.53
4	R	484	ASP	CA-C	-16.30	1.32	1.52
4	L	484	ASP	CA-C	-16.30	1.32	1.52
4	X	260	THR	CA-CB	16.28	1.81	1.53
4	L	260	THR	CA-CB	16.27	1.81	1.53
6	N	420	THR	CA-C	-16.24	1.31	1.52
4	L	456	ASP	N-CA	-16.23	1.23	1.46
4	X	484	ASP	CA-C	-16.22	1.32	1.52
4	F	456	ASP	N-CA	-16.20	1.23	1.46
4	L	235	ASP	CA-CB	16.20	1.79	1.53
4	X	456	ASP	N-CA	-16.19	1.23	1.46
4	F	235	ASP	CA-CB	16.17	1.79	1.53
4	R	235	ASP	CA-CB	16.16	1.79	1.53
6	T	420	THR	CA-C	-16.16	1.31	1.52
6	Z	420	THR	CA-C	-16.16	1.31	1.52
6	H	420	THR	CA-C	-16.16	1.31	1.52
6	T	462	GLY	C-N	16.14	1.57	1.34
6	H	462	GLY	C-N	16.12	1.57	1.34
6	N	462	GLY	C-N	16.11	1.57	1.34
4	X	235	ASP	CA-CB	16.11	1.78	1.53
6	Z	462	GLY	C-N	16.09	1.57	1.34
6	T	385	ASP	CA-C	-16.07	1.32	1.52
6	N	385	ASP	CA-C	-16.01	1.32	1.52
6	Z	385	ASP	CA-C	-16.00	1.32	1.52
4	L	493	HIS	N-CA	16.00	1.76	1.46
4	X	493	HIS	N-CA	15.99	1.76	1.46
6	H	385	ASP	CA-C	-15.97	1.32	1.52
4	R	493	HIS	N-CA	15.95	1.76	1.46
4	R	461	ARG	N-CA	15.94	1.66	1.46
4	F	493	HIS	N-CA	15.91	1.76	1.46
4	L	461	ARG	N-CA	15.86	1.66	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	461	ARG	N-CA	15.86	1.66	1.46
4	F	461	ARG	N-CA	15.85	1.66	1.46
5	Y	393	TYR	N-CA	15.85	1.67	1.46
4	R	367	THR	C-N	15.83	1.54	1.33
5	S	393	TYR	N-CA	15.81	1.67	1.46
5	G	393	TYR	N-CA	15.80	1.67	1.46
4	F	367	THR	C-N	15.79	1.54	1.33
3	D	1512	TRP	N-CA	-15.78	1.26	1.46
4	L	367	THR	C-N	15.77	1.54	1.33
3	P	1512	TRP	N-CA	-15.76	1.26	1.46
4	X	367	THR	C-N	15.76	1.54	1.33
5	M	393	TYR	N-CA	15.73	1.67	1.46
5	G	369	ASN	CA-C	-15.68	1.31	1.52
5	Y	369	ASN	CA-C	-15.62	1.31	1.52
5	S	341	ALA	CA-C	15.59	1.72	1.52
5	Y	341	ALA	CA-C	15.58	1.72	1.52
5	Y	346	PHE	CA-C	-15.58	1.33	1.52
6	Z	402	GLU	CA-C	-15.57	1.33	1.52
6	H	487	TRP	CA-C	-15.55	1.32	1.52
5	S	369	ASN	CA-C	-15.55	1.31	1.52
6	H	402	GLU	CA-C	-15.55	1.33	1.52
5	M	369	ASN	CA-C	-15.55	1.31	1.52
5	G	346	PHE	CA-C	-15.54	1.33	1.52
6	T	402	GLU	CA-C	-15.51	1.33	1.52
6	Z	487	TRP	CA-C	-15.51	1.32	1.52
5	S	348	ILE	CA-CB	-15.50	1.34	1.54
5	G	341	ALA	CA-C	15.50	1.72	1.52
5	M	346	PHE	CA-C	-15.50	1.33	1.52
6	N	402	GLU	CA-C	-15.49	1.33	1.52
5	S	346	PHE	CA-C	-15.49	1.33	1.52
6	N	411	GLU	C-O	-15.48	1.04	1.24
4	F	452	ARG	CA-C	15.46	1.73	1.52
5	M	341	ALA	CA-C	15.46	1.72	1.52
5	Y	348	ILE	CA-CB	-15.45	1.34	1.54
6	H	411	GLU	C-O	-15.44	1.04	1.24
6	T	487	TRP	CA-C	-15.44	1.32	1.52
6	N	487	TRP	CA-C	-15.44	1.32	1.52
6	T	411	GLU	C-O	-15.43	1.04	1.24
5	M	348	ILE	CA-CB	-15.42	1.34	1.54
5	G	348	ILE	CA-CB	-15.42	1.34	1.54
4	X	452	ARG	CA-C	15.41	1.73	1.52
4	L	452	ARG	CA-C	15.38	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	Z	411	GLU	C-O	-15.38	1.04	1.24
6	Z	341	SER	CA-CB	-15.32	1.29	1.53
4	R	452	ARG	CA-C	15.31	1.73	1.52
4	F	445	GLY	N-CA	-15.31	1.26	1.45
6	T	341	SER	CA-CB	-15.30	1.29	1.53
6	N	341	SER	CA-CB	-15.27	1.29	1.53
6	H	341	SER	CA-CB	-15.25	1.29	1.53
4	X	445	GLY	N-CA	-15.25	1.26	1.45
4	X	420	GLU	CA-C	-15.23	1.33	1.52
4	R	420	GLU	CA-C	-15.22	1.33	1.52
4	R	445	GLY	N-CA	-15.22	1.26	1.45
4	L	420	GLU	CA-C	-15.22	1.33	1.52
4	F	420	GLU	CA-C	-15.18	1.33	1.52
4	F	368	SER	N-CA	15.17	1.66	1.46
4	L	445	GLY	N-CA	-15.16	1.26	1.45
4	X	368	SER	N-CA	15.16	1.66	1.46
5	S	327	ARG	C-N	15.11	1.56	1.33
6	Z	335	SER	CA-C	-15.10	1.32	1.52
4	X	452	ARG	C-N	15.10	1.54	1.33
5	G	327	ARG	C-N	15.09	1.56	1.33
6	H	388	ARG	N-CA	-15.09	1.28	1.46
4	L	368	SER	N-CA	15.09	1.66	1.46
5	M	327	ARG	C-N	15.09	1.56	1.33
6	Z	388	ARG	N-CA	-15.09	1.28	1.46
4	R	368	SER	N-CA	15.08	1.66	1.46
5	Y	327	ARG	C-N	15.08	1.56	1.33
4	R	452	ARG	C-N	15.07	1.54	1.33
4	F	452	ARG	C-N	15.05	1.54	1.33
4	L	452	ARG	C-N	15.05	1.54	1.33
6	T	388	ARG	N-CA	-15.00	1.28	1.46
6	T	335	SER	CA-C	-14.97	1.33	1.52
4	X	444	PHE	CA-C	14.97	1.72	1.52
6	T	412	GLU	CA-C	-14.96	1.35	1.53
6	H	335	SER	CA-C	-14.96	1.33	1.52
6	N	335	SER	CA-C	-14.96	1.33	1.52
6	Z	412	GLU	CA-C	-14.95	1.35	1.53
6	N	388	ARG	N-CA	-14.93	1.28	1.46
4	F	444	PHE	CA-C	14.93	1.72	1.52
6	N	412	GLU	CA-C	-14.90	1.35	1.53
6	H	412	GLU	CA-C	-14.89	1.35	1.53
3	D	1511	GLN	CA-C	-14.86	1.32	1.52
4	L	349	THR	CA-C	-14.84	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	R	444	PHE	CA-C	14.82	1.72	1.52
4	L	444	PHE	CA-C	14.81	1.72	1.52
4	F	349	THR	CA-C	-14.80	1.33	1.52
3	P	1511	GLN	CA-C	-14.77	1.32	1.52
4	X	199	GLU	CA-C	-14.76	1.33	1.52
4	X	349	THR	CA-C	-14.76	1.33	1.52
4	R	349	THR	CA-C	-14.72	1.33	1.52
4	X	331	LYS	CA-C	-14.72	1.31	1.52
4	L	199	GLU	CA-C	-14.70	1.33	1.52
4	F	331	LYS	CA-C	-14.67	1.31	1.52
4	X	207	GLN	N-CA	14.67	1.64	1.46
4	F	207	GLN	N-CA	14.67	1.64	1.46
4	L	207	GLN	N-CA	14.66	1.64	1.46
4	R	207	GLN	N-CA	14.65	1.64	1.46
6	T	414	VAL	CA-C	14.64	1.71	1.52
4	F	199	GLU	CA-C	-14.63	1.33	1.52
6	Z	414	VAL	CA-C	14.63	1.71	1.52
6	N	414	VAL	CA-C	14.62	1.71	1.52
4	R	199	GLU	CA-C	-14.62	1.33	1.52
4	L	249	PRO	N-CA	-14.61	1.28	1.47
4	R	331	LYS	CA-C	-14.61	1.32	1.52
6	T	394	ASP	CA-C	-14.60	1.33	1.52
6	Z	394	ASP	CA-C	-14.60	1.33	1.52
6	H	414	VAL	CA-C	14.59	1.71	1.52
6	N	394	ASP	CA-C	-14.59	1.33	1.52
4	R	435	MET	CA-C	14.59	1.71	1.52
4	X	249	PRO	N-CA	-14.59	1.28	1.47
4	L	220	ASN	C-O	14.58	1.41	1.24
6	H	394	ASP	CA-C	-14.56	1.33	1.52
4	L	435	MET	CA-C	14.55	1.71	1.52
4	X	220	ASN	C-O	14.55	1.41	1.24
4	F	435	MET	CA-C	14.54	1.71	1.52
6	H	497	ARG	CA-CB	-14.54	1.28	1.53
6	Z	490	GLN	CA-CB	14.54	1.75	1.53
4	R	249	PRO	N-CA	-14.53	1.28	1.47
4	L	331	LYS	CA-C	-14.53	1.32	1.52
4	F	249	PRO	N-CA	-14.53	1.28	1.47
4	R	220	ASN	C-O	14.52	1.41	1.24
6	H	490	GLN	CA-CB	14.52	1.75	1.53
4	X	435	MET	CA-C	14.52	1.71	1.52
6	Z	497	ARG	CA-CB	-14.52	1.28	1.53
6	T	497	ARG	CA-CB	-14.50	1.28	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	220	ASN	C-O	14.50	1.41	1.24
6	T	490	GLN	CA-CB	14.50	1.75	1.53
6	N	490	GLN	CA-CB	14.47	1.75	1.53
6	N	497	ARG	CA-CB	-14.45	1.29	1.53
3	D	1521	TYR	N-CA	-14.35	1.28	1.46
5	S	328	THR	CA-CB	14.34	1.74	1.54
5	G	328	THR	CA-CB	14.33	1.74	1.54
5	M	328	THR	CA-CB	14.32	1.74	1.54
5	Y	328	THR	CA-CB	14.32	1.74	1.54
3	D	1542	PRO	N-CA	-14.30	1.29	1.47
4	R	454	TYR	CA-CB	14.26	1.77	1.53
4	F	454	TYR	CA-CB	14.26	1.77	1.53
4	L	451	GLU	CA-CB	14.24	1.77	1.53
4	R	451	GLU	CA-CB	14.24	1.77	1.53
4	X	454	TYR	CA-CB	14.24	1.77	1.53
3	P	1521	TYR	N-CA	-14.24	1.28	1.46
3	P	1542	PRO	N-CA	-14.24	1.29	1.47
6	T	411	GLU	N-CA	14.23	1.64	1.46
4	L	454	TYR	CA-CB	14.23	1.77	1.53
6	N	411	GLU	N-CA	14.22	1.64	1.46
6	H	411	GLU	N-CA	14.21	1.64	1.46
4	F	451	GLU	CA-CB	14.19	1.77	1.53
6	Z	411	GLU	N-CA	14.18	1.64	1.46
4	F	403	ILE	CA-CB	-14.17	1.35	1.54
4	X	403	ILE	CA-CB	-14.16	1.35	1.54
4	X	451	GLU	CA-CB	14.15	1.77	1.53
4	R	403	ILE	CA-CB	-14.14	1.35	1.54
4	L	403	ILE	CA-CB	-14.12	1.35	1.54
6	T	356	THR	N-CA	-14.12	1.28	1.46
6	H	356	THR	N-CA	-14.10	1.28	1.46
5	Y	366	GLU	CA-CB	14.05	1.76	1.53
5	G	366	GLU	CA-CB	14.03	1.76	1.53
6	N	356	THR	N-CA	-14.02	1.28	1.46
3	P	1544	PRO	CA-C	14.02	1.65	1.52
6	Z	356	THR	N-CA	-14.01	1.28	1.46
5	S	366	GLU	CA-CB	14.00	1.76	1.53
6	Z	490	GLN	CA-C	14.00	1.71	1.52
6	T	445	LYS	N-CA	-13.99	1.29	1.46
6	N	416	GLU	CA-C	-13.98	1.35	1.52
6	H	445	LYS	N-CA	-13.98	1.29	1.46
5	M	366	GLU	CA-CB	13.96	1.76	1.53
6	N	490	GLN	CA-C	13.96	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Y	329	GLN	N-CA	-13.96	1.32	1.46
6	H	416	GLU	CA-C	-13.95	1.35	1.52
6	N	445	LYS	N-CA	-13.95	1.29	1.46
6	H	490	GLN	CA-C	13.94	1.70	1.52
6	T	490	GLN	CA-C	13.94	1.70	1.52
6	Z	445	LYS	N-CA	-13.93	1.29	1.46
5	S	329	GLN	N-CA	-13.93	1.32	1.46
6	Z	416	GLU	CA-C	-13.92	1.35	1.52
5	G	329	GLN	N-CA	-13.90	1.32	1.46
4	L	428	LYS	CA-C	-13.89	1.34	1.52
6	T	416	GLU	CA-C	-13.88	1.35	1.52
3	D	1544	PRO	CA-C	13.88	1.65	1.52
5	M	329	GLN	N-CA	-13.86	1.32	1.46
4	X	428	LYS	CA-C	-13.85	1.34	1.52
4	F	428	LYS	CA-C	-13.84	1.34	1.52
4	X	223	LEU	N-CA	13.83	1.62	1.46
3	P	1485	ALA	CA-C	-13.80	1.34	1.52
4	R	428	LYS	CA-C	-13.80	1.35	1.52
4	F	223	LEU	N-CA	13.78	1.62	1.46
4	R	223	LEU	N-CA	13.78	1.62	1.46
2	U	7	GLY	C-N	-13.77	1.14	1.33
4	L	223	LEU	N-CA	13.76	1.62	1.46
3	D	1485	ALA	CA-C	-13.76	1.34	1.52
2	I	7	GLY	C-N	-13.75	1.14	1.33
4	L	252	THR	CA-CB	13.74	1.73	1.53
2	O	7	GLY	C-N	-13.71	1.14	1.33
4	X	457	ALA	CA-C	13.71	1.71	1.52
2	C	7	GLY	C-N	-13.70	1.14	1.33
4	R	252	THR	CA-CB	13.68	1.73	1.53
4	X	252	THR	CA-CB	13.65	1.73	1.53
4	F	252	THR	CA-CB	13.63	1.73	1.53
4	L	457	ALA	CA-C	13.62	1.71	1.52
4	F	457	ALA	CA-C	13.61	1.71	1.52
4	X	235	ASP	N-CA	13.61	1.62	1.46
4	F	235	ASP	N-CA	13.60	1.62	1.46
6	N	490	GLN	N-CA	-13.58	1.27	1.45
4	R	457	ALA	CA-C	13.57	1.71	1.52
4	X	463	ILE	N-CA	-13.56	1.29	1.46
6	T	490	GLN	N-CA	-13.56	1.27	1.45
6	H	490	GLN	N-CA	-13.55	1.27	1.45
4	F	463	ILE	N-CA	-13.53	1.29	1.46
6	Z	490	GLN	N-CA	-13.51	1.27	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	486	GLU	CA-CB	-13.51	1.31	1.53
4	R	299	ASN	C-N	13.50	1.49	1.33
4	L	463	ILE	N-CA	-13.50	1.29	1.46
4	F	299	ASN	C-N	13.48	1.49	1.33
4	F	487	ASP	N-CA	-13.48	1.28	1.46
4	X	299	ASN	C-N	13.48	1.49	1.33
4	L	299	ASN	C-N	13.47	1.49	1.33
4	X	486	GLU	CA-CB	-13.47	1.31	1.53
4	R	235	ASP	N-CA	13.46	1.61	1.46
4	R	486	GLU	CA-CB	-13.46	1.31	1.53
4	X	487	ASP	N-CA	-13.45	1.28	1.46
4	F	486	GLU	CA-CB	-13.45	1.31	1.53
4	F	424	PRO	CA-C	-13.45	1.33	1.52
4	L	235	ASP	N-CA	13.45	1.61	1.46
4	L	143	GLN	N-CA	13.44	1.63	1.46
4	X	143	GLN	N-CA	13.44	1.63	1.46
6	H	412	GLU	C-N	-13.44	1.16	1.33
4	L	487	ASP	N-CA	-13.44	1.28	1.46
4	R	463	ILE	N-CA	-13.44	1.29	1.46
4	R	487	ASP	N-CA	-13.43	1.28	1.46
6	T	412	GLU	C-N	-13.43	1.16	1.33
4	F	143	GLN	N-CA	13.43	1.63	1.46
4	R	458	ASP	N-CA	13.40	1.63	1.46
4	X	424	PRO	CA-C	-13.39	1.33	1.52
5	Y	338	GLU	C-N	13.39	1.52	1.33
4	F	458	ASP	N-CA	13.38	1.63	1.46
4	X	458	ASP	N-CA	13.38	1.63	1.46
5	G	338	GLU	C-N	13.37	1.52	1.33
4	L	458	ASP	N-CA	13.37	1.63	1.46
5	M	338	GLU	C-N	13.36	1.52	1.33
4	R	143	GLN	N-CA	13.35	1.63	1.46
4	R	254	ARG	N-CA	-13.34	1.29	1.46
6	Z	412	GLU	C-N	-13.34	1.16	1.33
4	R	424	PRO	CA-C	-13.34	1.33	1.52
6	N	412	GLU	C-N	-13.32	1.16	1.33
4	L	424	PRO	CA-C	-13.32	1.33	1.52
4	F	254	ARG	N-CA	-13.31	1.29	1.46
3	P	1488	GLY	CA-C	-13.30	1.35	1.51
5	S	338	GLU	C-N	13.30	1.52	1.33
4	X	254	ARG	N-CA	-13.28	1.29	1.46
4	L	449	SER	C-N	13.27	1.52	1.33
3	D	1488	GLY	CA-C	-13.27	1.35	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	254	ARG	N-CA	-13.26	1.29	1.46
4	X	449	SER	C-N	13.25	1.52	1.33
5	G	339	TYR	CA-CB	-13.24	1.34	1.52
4	R	449	SER	C-N	13.21	1.52	1.33
6	T	495	LEU	N-CA	-13.20	1.29	1.46
5	Y	339	TYR	CA-CB	-13.18	1.34	1.52
6	H	495	LEU	N-CA	-13.17	1.29	1.46
4	F	449	SER	C-N	13.16	1.52	1.33
5	M	313	ILE	N-CA	13.15	1.61	1.46
6	H	370	GLU	CA-C	13.14	1.69	1.52
6	N	495	LEU	N-CA	-13.14	1.30	1.46
6	Z	495	LEU	N-CA	-13.14	1.30	1.46
4	F	343	MET	CA-C	13.14	1.69	1.52
4	L	343	MET	CA-C	13.14	1.69	1.52
5	M	339	TYR	CA-CB	-13.13	1.35	1.52
5	G	313	ILE	N-CA	13.12	1.61	1.46
5	Y	313	ILE	N-CA	13.12	1.61	1.46
6	N	370	GLU	CA-C	13.12	1.69	1.52
5	S	339	TYR	CA-CB	-13.09	1.35	1.52
4	R	343	MET	CA-C	13.09	1.69	1.52
4	R	461	ARG	CA-CB	-13.07	1.31	1.53
6	H	414	VAL	CA-CB	13.06	1.71	1.54
4	X	343	MET	CA-C	13.06	1.69	1.52
6	T	370	GLU	CA-C	13.05	1.69	1.52
6	T	414	VAL	CA-CB	13.04	1.71	1.54
6	Z	370	GLU	CA-C	13.04	1.69	1.52
6	Z	414	VAL	CA-CB	13.04	1.71	1.54
4	X	461	ARG	CA-CB	-13.03	1.31	1.53
5	S	313	ILE	N-CA	13.02	1.61	1.46
4	L	452	ARG	C-O	13.01	1.40	1.24
4	F	461	ARG	CA-CB	-13.01	1.31	1.53
6	N	414	VAL	CA-CB	13.01	1.71	1.54
4	X	452	ARG	C-O	13.00	1.40	1.24
6	H	410	LEU	C-N	12.99	1.51	1.33
4	L	461	ARG	CA-CB	-12.97	1.31	1.53
4	F	432	ASN	N-CA	-12.97	1.29	1.46
4	L	432	ASN	N-CA	-12.96	1.29	1.46
6	N	410	LEU	C-N	12.95	1.51	1.33
4	F	452	ARG	C-O	12.94	1.40	1.24
4	R	452	ARG	C-O	12.94	1.40	1.24
6	Z	410	LEU	C-N	12.90	1.51	1.33
4	R	426	GLN	CA-C	-12.90	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	432	ASN	N-CA	-12.89	1.29	1.46
4	R	432	ASN	N-CA	-12.89	1.29	1.46
6	T	410	LEU	C-N	12.87	1.51	1.33
3	D	1546	LEU	CA-C	-12.86	1.35	1.52
4	F	426	GLN	CA-C	-12.85	1.36	1.52
3	P	1546	LEU	CA-C	-12.84	1.35	1.52
4	F	311	GLN	CA-CB	-12.83	1.32	1.53
4	F	251	GLY	N-CA	-12.82	1.26	1.45
6	H	409	PRO	CA-CB	-12.81	1.35	1.53
4	X	426	GLN	CA-C	-12.81	1.36	1.52
4	L	426	GLN	CA-C	-12.80	1.36	1.52
4	F	221	GLN	N-CA	-12.79	1.29	1.46
6	N	409	PRO	CA-CB	-12.79	1.35	1.53
4	X	311	GLN	CA-CB	-12.79	1.32	1.53
4	X	221	GLN	N-CA	-12.78	1.29	1.46
4	L	221	GLN	N-CA	-12.78	1.29	1.46
3	D	1520	GLY	CA-C	-12.77	1.33	1.51
4	R	221	GLN	N-CA	-12.76	1.29	1.46
3	P	1520	GLY	CA-C	-12.75	1.33	1.51
6	T	409	PRO	CA-CB	-12.75	1.35	1.53
4	R	311	GLN	CA-CB	-12.74	1.32	1.53
4	L	251	GLY	N-CA	-12.74	1.27	1.45
6	Z	409	PRO	CA-CB	-12.73	1.35	1.53
4	L	311	GLN	CA-CB	-12.73	1.32	1.53
4	X	251	GLY	N-CA	-12.70	1.27	1.45
4	R	251	GLY	N-CA	-12.66	1.27	1.45
3	D	1507	ASP	N-CA	-12.61	1.30	1.46
3	P	1507	ASP	N-CA	-12.60	1.30	1.46
4	F	250	ASN	CA-CB	12.59	1.70	1.53
4	L	250	ASN	CA-CB	12.55	1.70	1.53
5	M	366	GLU	CA-C	-12.54	1.35	1.52
5	Y	366	GLU	CA-C	-12.54	1.35	1.52
5	S	366	GLU	CA-C	-12.51	1.35	1.52
6	T	493	ALA	CA-C	12.49	1.70	1.52
4	R	250	ASN	CA-CB	12.49	1.70	1.53
6	H	493	ALA	CA-C	12.48	1.70	1.52
6	H	408	SER	N-CA	-12.45	1.28	1.46
3	D	1474	GLY	CA-C	-12.45	1.37	1.51
4	X	250	ASN	CA-CB	12.45	1.70	1.53
3	D	1512	TRP	CA-C	-12.45	1.36	1.52
5	G	366	GLU	CA-C	-12.45	1.35	1.52
3	P	1516	LEU	CA-C	-12.43	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	Z	408	SER	N-CA	-12.43	1.28	1.46
6	N	493	ALA	CA-C	12.43	1.70	1.52
3	P	1512	TRP	CA-C	-12.42	1.36	1.52
3	P	1474	GLY	CA-C	-12.41	1.37	1.51
5	G	405	SER	CA-CB	-12.38	1.33	1.53
3	D	1516	LEU	CA-C	-12.38	1.36	1.52
6	N	408	SER	N-CA	-12.38	1.28	1.46
6	T	408	SER	N-CA	-12.37	1.28	1.46
6	Z	493	ALA	CA-C	12.36	1.70	1.52
5	M	405	SER	CA-CB	-12.32	1.34	1.53
4	L	422	ASN	CA-C	-12.30	1.36	1.52
5	Y	405	SER	CA-CB	-12.30	1.34	1.53
5	S	405	SER	CA-CB	-12.27	1.34	1.53
4	F	422	ASN	CA-C	-12.21	1.36	1.52
4	X	422	ASN	CA-C	-12.20	1.36	1.52
4	R	422	ASN	CA-C	-12.18	1.36	1.52
6	N	388	ARG	CA-C	-12.17	1.37	1.52
5	M	277	SER	N-CA	12.15	1.60	1.46
5	Y	380	ILE	CA-C	12.12	1.66	1.52
6	T	392	GLU	N-CA	12.11	1.61	1.46
4	X	485	LEU	N-CA	12.11	1.63	1.46
6	H	392	GLU	N-CA	12.10	1.61	1.46
5	M	343	ALA	N-CA	-12.10	1.30	1.46
4	X	305	ASP	CA-CB	-12.10	1.29	1.53
5	S	380	ILE	CA-C	12.09	1.66	1.52
5	G	277	SER	N-CA	12.09	1.60	1.46
6	N	392	GLU	N-CA	12.08	1.60	1.46
5	Y	343	ALA	N-CA	-12.08	1.30	1.46
4	R	305	ASP	CA-CB	-12.08	1.29	1.53
6	T	388	ARG	CA-C	-12.08	1.37	1.52
4	L	305	ASP	CA-CB	-12.08	1.29	1.53
5	S	343	ALA	N-CA	-12.07	1.30	1.46
5	Y	277	SER	N-CA	12.07	1.60	1.46
4	F	305	ASP	CA-CB	-12.06	1.29	1.53
5	S	277	SER	N-CA	12.06	1.60	1.46
6	H	388	ARG	CA-C	-12.05	1.37	1.52
6	Z	392	GLU	N-CA	12.05	1.60	1.46
5	M	380	ILE	CA-C	12.04	1.66	1.52
5	G	343	ALA	N-CA	-12.04	1.30	1.46
4	F	485	LEU	N-CA	12.04	1.63	1.46
4	R	485	LEU	N-CA	12.01	1.63	1.46
4	L	485	LEU	N-CA	12.01	1.63	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	Z	388	ARG	CA-C	-11.99	1.37	1.52
4	L	144	LEU	CA-CB	11.98	1.73	1.53
4	X	144	LEU	CA-CB	11.96	1.73	1.53
4	R	144	LEU	CA-CB	11.94	1.73	1.53
5	S	340	ALA	C-O	-11.93	1.09	1.23
4	F	144	LEU	CA-CB	11.92	1.73	1.53
6	N	497	ARG	CA-C	-11.92	1.36	1.52
2	U	15	GLN	N-CA	-11.91	1.31	1.46
5	M	340	ALA	C-O	-11.91	1.09	1.23
5	Y	340	ALA	C-O	-11.90	1.09	1.23
2	C	15	GLN	N-CA	-11.89	1.31	1.46
3	D	1521	TYR	CA-C	-11.89	1.37	1.52
5	G	332	PRO	CA-C	-11.88	1.41	1.52
3	P	1521	TYR	CA-C	-11.88	1.37	1.52
6	Z	497	ARG	CA-C	-11.88	1.36	1.52
2	I	15	GLN	N-CA	-11.87	1.31	1.46
2	O	15	GLN	N-CA	-11.86	1.31	1.46
5	S	393	TYR	CA-C	11.86	1.69	1.52
4	L	440	MET	CA-CB	-11.86	1.34	1.53
4	F	440	MET	CA-CB	-11.86	1.34	1.53
4	R	440	MET	CA-CB	-11.86	1.34	1.53
5	Y	393	TYR	CA-C	11.86	1.69	1.52
5	Y	332	PRO	CA-C	-11.85	1.41	1.52
6	T	497	ARG	CA-C	-11.84	1.36	1.52
6	H	497	ARG	CA-C	-11.84	1.36	1.52
5	G	393	TYR	CA-C	11.84	1.69	1.52
4	X	440	MET	CA-CB	-11.84	1.35	1.53
5	M	393	TYR	CA-C	11.84	1.69	1.52
5	G	340	ALA	C-O	-11.83	1.09	1.23
6	Z	391	GLN	C-N	11.83	1.49	1.33
6	N	391	GLN	C-N	11.82	1.49	1.33
6	T	391	GLN	C-N	11.80	1.49	1.33
5	M	332	PRO	CA-C	-11.77	1.41	1.52
6	H	391	GLN	C-N	11.72	1.49	1.33
3	P	1451	ARG	CA-C	-11.68	1.37	1.52
5	S	332	PRO	CA-C	-11.68	1.41	1.52
6	Z	391	GLN	CA-C	11.67	1.68	1.52
6	H	391	GLN	CA-C	11.65	1.68	1.52
3	D	1451	ARG	CA-C	-11.65	1.37	1.52
4	R	253	SER	CA-C	11.65	1.66	1.52
6	N	391	GLN	CA-C	11.64	1.68	1.52
5	S	352	GLN	CA-CB	11.64	1.71	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	253	SER	CA-C	11.64	1.66	1.52
4	X	253	SER	CA-C	11.63	1.66	1.52
4	F	220	ASN	C-N	11.62	1.50	1.33
4	X	220	ASN	C-N	11.61	1.50	1.33
5	Y	352	GLN	CA-CB	11.61	1.71	1.53
6	T	391	GLN	CA-C	11.60	1.68	1.52
4	R	220	ASN	C-N	11.60	1.50	1.33
4	L	253	SER	CA-C	11.60	1.66	1.52
6	T	380	GLU	CA-CB	11.59	1.72	1.53
4	L	220	ASN	C-N	11.58	1.50	1.33
5	G	352	GLN	CA-CB	11.57	1.71	1.53
6	Z	380	GLU	CA-CB	11.56	1.72	1.53
5	M	352	GLN	CA-CB	11.56	1.71	1.53
5	Y	377	ASN	N-CA	-11.56	1.31	1.46
5	G	377	ASN	N-CA	-11.52	1.31	1.46
5	M	377	ASN	N-CA	-11.52	1.31	1.46
4	L	144	LEU	N-CA	-11.52	1.30	1.46
6	N	380	GLU	CA-CB	11.51	1.72	1.53
4	R	144	LEU	N-CA	-11.50	1.30	1.46
5	Y	361	ARG	N-CA	11.49	1.60	1.46
4	F	144	LEU	N-CA	-11.48	1.30	1.46
5	S	377	ASN	N-CA	-11.47	1.31	1.46
4	X	144	LEU	N-CA	-11.46	1.30	1.46
4	R	269	ASN	CA-CB	-11.42	1.35	1.53
5	M	361	ARG	N-CA	11.40	1.60	1.46
4	F	448	ARG	N-CA	11.40	1.61	1.46
5	S	361	ARG	N-CA	11.40	1.60	1.46
4	X	448	ARG	N-CA	11.39	1.61	1.46
4	L	201	GLU	CA-CB	11.38	1.73	1.53
4	R	201	GLU	CA-CB	11.38	1.73	1.53
4	X	269	ASN	CA-CB	-11.38	1.35	1.53
5	G	361	ARG	N-CA	11.38	1.60	1.46
4	L	269	ASN	CA-CB	-11.37	1.35	1.53
4	F	201	GLU	CA-CB	11.37	1.73	1.53
4	L	448	ARG	N-CA	11.37	1.61	1.46
4	R	448	ARG	N-CA	11.36	1.61	1.46
6	N	491	ASN	N-CA	-11.35	1.32	1.46
4	F	269	ASN	CA-CB	-11.34	1.35	1.53
4	R	439	ARG	N-CA	-11.33	1.31	1.46
4	X	450	GLU	C-N	11.33	1.49	1.33
6	Z	491	ASN	N-CA	-11.32	1.32	1.46
2	U	28	HIS	N-CA	11.32	1.59	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	Z	366	ILE	CA-CB	-11.31	1.41	1.54
4	X	201	GLU	CA-CB	11.31	1.73	1.53
4	L	321	LYS	N-CA	-11.31	1.31	1.46
4	F	450	GLU	C-N	11.30	1.49	1.33
4	R	321	LYS	N-CA	-11.29	1.31	1.46
4	L	450	GLU	C-N	11.29	1.49	1.33
4	F	321	LYS	N-CA	-11.29	1.31	1.46
4	R	450	GLU	C-N	11.29	1.49	1.33
5	S	264	GLU	N-CA	11.28	1.60	1.46
4	F	439	ARG	N-CA	-11.27	1.31	1.46
4	R	400	GLY	CA-C	-11.27	1.35	1.51
2	O	28	HIS	N-CA	11.27	1.59	1.45
4	X	321	LYS	N-CA	-11.27	1.31	1.46
6	H	366	ILE	CA-CB	-11.26	1.41	1.54
6	T	366	ILE	CA-CB	-11.25	1.41	1.54
2	I	28	HIS	N-CA	11.25	1.59	1.45
5	M	264	GLU	N-CA	11.25	1.59	1.46
6	H	491	ASN	N-CA	-11.24	1.32	1.46
4	R	487	ASP	CA-CB	11.24	1.73	1.53
4	L	487	ASP	CA-CB	11.24	1.73	1.53
4	F	400	GLY	CA-C	-11.23	1.36	1.51
4	X	487	ASP	CA-CB	11.23	1.73	1.53
4	X	400	GLY	CA-C	-11.23	1.36	1.51
4	X	439	ARG	N-CA	-11.23	1.31	1.46
4	F	487	ASP	CA-CB	11.22	1.73	1.53
4	F	222	THR	C-N	11.22	1.48	1.33
5	G	404	GLN	CA-C	-11.21	1.37	1.52
5	Y	264	GLU	N-CA	11.21	1.59	1.46
6	T	491	ASN	N-CA	-11.21	1.32	1.46
4	R	222	THR	C-N	11.20	1.48	1.33
4	L	222	THR	C-N	11.20	1.48	1.33
2	C	28	HIS	N-CA	11.19	1.59	1.45
5	G	264	GLU	N-CA	11.19	1.59	1.46
4	L	400	GLY	CA-C	-11.19	1.36	1.51
5	Y	404	GLN	CA-C	-11.19	1.37	1.52
4	X	222	THR	C-N	11.17	1.48	1.33
5	M	404	GLN	CA-C	-11.17	1.37	1.52
6	N	366	ILE	CA-CB	-11.16	1.41	1.54
4	L	439	ARG	N-CA	-11.15	1.32	1.46
5	S	404	GLN	CA-C	-11.14	1.37	1.52
4	L	429	GLY	CA-C	-11.14	1.40	1.52
4	F	429	GLY	CA-C	-11.13	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	R	429	GLY	CA-C	-11.11	1.40	1.52
3	D	1520	GLY	N-CA	-11.07	1.29	1.45
3	P	1520	GLY	N-CA	-11.05	1.29	1.45
4	R	221	GLN	CA-C	11.03	1.67	1.52
4	F	221	GLN	CA-C	11.03	1.67	1.52
4	X	221	GLN	CA-C	11.01	1.67	1.52
4	X	429	GLY	CA-C	-10.99	1.40	1.52
5	G	338	GLU	CA-C	-10.97	1.37	1.52
6	H	380	GLU	CA-CB	10.96	1.72	1.53
5	Y	338	GLU	CA-C	-10.96	1.37	1.52
4	L	221	GLN	CA-C	10.95	1.67	1.52
3	D	1542	PRO	CA-C	10.94	1.68	1.52
5	M	338	GLU	CA-C	-10.91	1.37	1.52
3	D	1489	HIS	N-CA	-10.90	1.31	1.46
3	P	1542	PRO	CA-C	10.90	1.67	1.52
3	P	1489	HIS	N-CA	-10.88	1.31	1.46
4	F	306	PRO	CA-C	10.88	1.68	1.52
5	S	338	GLU	CA-C	-10.88	1.37	1.52
4	R	306	PRO	CA-C	10.87	1.68	1.52
3	P	1511	GLN	N-CA	-10.86	1.32	1.46
4	X	306	PRO	CA-C	10.86	1.68	1.52
6	T	409	PRO	C-N	10.85	1.49	1.33
6	N	409	PRO	C-N	10.84	1.48	1.33
5	M	341	ALA	C-O	-10.83	1.10	1.24
6	H	409	PRO	C-N	10.82	1.48	1.33
6	Z	409	PRO	C-N	10.82	1.48	1.33
6	H	381	LYS	CA-CB	10.82	1.71	1.53
4	L	456	ASP	C-N	10.82	1.48	1.33
5	S	341	ALA	C-O	-10.82	1.10	1.24
4	X	456	ASP	C-N	10.81	1.48	1.33
4	F	456	ASP	C-N	10.81	1.48	1.33
4	X	243	TYR	CA-CB	-10.80	1.33	1.54
3	D	1511	GLN	N-CA	-10.80	1.32	1.46
6	Z	381	LYS	CA-CB	10.79	1.71	1.53
6	N	381	LYS	CA-CB	10.79	1.71	1.53
5	S	333	PRO	N-CA	-10.79	1.33	1.47
4	F	243	TYR	CA-CB	-10.77	1.33	1.54
4	L	306	PRO	CA-C	10.77	1.68	1.52
5	G	333	PRO	N-CA	-10.76	1.33	1.47
5	Y	333	PRO	N-CA	-10.75	1.33	1.47
5	G	343	ALA	CA-CB	-10.74	1.35	1.53
4	L	243	TYR	CA-CB	-10.74	1.33	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	401	ALA	CA-CB	-10.74	1.36	1.53
4	R	243	TYR	CA-CB	-10.73	1.33	1.54
5	Y	341	ALA	C-O	-10.73	1.10	1.24
5	G	401	ALA	CA-CB	-10.73	1.36	1.53
5	Y	343	ALA	CA-CB	-10.72	1.35	1.53
5	Y	401	ALA	CA-CB	-10.72	1.36	1.53
4	R	456	ASP	C-N	10.72	1.48	1.33
6	T	381	LYS	CA-CB	10.71	1.71	1.53
5	M	333	PRO	N-CA	-10.69	1.33	1.47
5	S	343	ALA	CA-CB	-10.69	1.35	1.53
5	S	401	ALA	CA-CB	-10.68	1.36	1.53
5	G	341	ALA	C-O	-10.67	1.10	1.24
4	X	435	MET	C-N	10.67	1.46	1.33
5	M	343	ALA	CA-CB	-10.65	1.35	1.53
5	M	254	ASP	N-CA	-10.64	1.33	1.46
4	F	435	MET	C-N	10.63	1.46	1.33
5	Y	254	ASP	N-CA	-10.63	1.33	1.46
4	R	435	MET	C-N	10.62	1.46	1.33
3	P	1509	GLN	N-CA	-10.62	1.33	1.46
3	D	1509	GLN	N-CA	-10.61	1.33	1.46
5	G	254	ASP	N-CA	-10.60	1.33	1.46
5	S	254	ASP	N-CA	-10.57	1.33	1.46
4	L	408	GLU	CA-C	-10.56	1.38	1.52
3	D	1450	GLU	N-CA	-10.56	1.32	1.46
4	F	408	GLU	CA-C	-10.56	1.38	1.52
4	F	466	HIS	CA-C	-10.56	1.38	1.52
6	T	410	LEU	CA-C	10.56	1.67	1.52
5	G	274	ARG	CA-C	-10.55	1.39	1.52
5	Y	274	ARG	CA-C	-10.53	1.39	1.52
3	P	1450	GLU	N-CA	-10.53	1.32	1.46
5	Y	249	PRO	N-CA	10.53	1.60	1.47
4	L	435	MET	C-N	10.52	1.46	1.33
4	F	394	GLU	CA-C	10.51	1.67	1.52
5	G	249	PRO	N-CA	10.49	1.60	1.47
4	L	466	HIS	CA-C	-10.49	1.38	1.52
4	X	394	GLU	CA-C	10.49	1.67	1.52
6	H	410	LEU	CA-C	10.49	1.67	1.52
4	X	235	ASP	C-N	10.49	1.50	1.33
6	N	366	ILE	N-CA	-10.48	1.34	1.46
4	R	466	HIS	CA-C	-10.48	1.38	1.52
4	X	466	HIS	CA-C	-10.48	1.38	1.52
4	F	419	GLY	C-N	10.46	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	235	ASP	C-N	10.46	1.50	1.33
6	H	357	GLN	CA-C	-10.46	1.39	1.52
4	X	408	GLU	CA-C	-10.46	1.38	1.52
2	C	7	GLY	N-CA	-10.45	1.30	1.45
4	F	235	ASP	C-N	10.45	1.50	1.33
4	R	419	GLY	C-N	10.45	1.46	1.33
4	L	419	GLY	C-N	10.44	1.46	1.33
6	N	410	LEU	CA-C	10.44	1.67	1.52
5	S	249	PRO	N-CA	10.44	1.60	1.47
5	M	249	PRO	N-CA	10.44	1.60	1.47
6	Z	410	LEU	CA-C	10.44	1.67	1.52
4	R	408	GLU	CA-C	-10.44	1.38	1.52
6	Z	357	GLN	CA-C	-10.44	1.39	1.52
4	L	394	GLU	CA-C	10.44	1.67	1.52
4	R	394	GLU	CA-C	10.43	1.67	1.52
4	R	320	GLU	N-CA	10.43	1.59	1.46
6	H	366	ILE	N-CA	-10.42	1.34	1.46
4	R	235	ASP	C-N	10.41	1.50	1.33
3	D	1519	SER	N-CA	-10.41	1.32	1.46
4	X	419	GLY	C-N	10.41	1.46	1.33
5	M	274	ARG	CA-C	-10.41	1.39	1.52
6	N	357	GLN	CA-C	-10.40	1.39	1.52
3	P	1519	SER	N-CA	-10.39	1.32	1.46
5	S	274	ARG	CA-C	-10.39	1.39	1.52
4	X	320	GLU	N-CA	10.38	1.59	1.46
2	I	7	GLY	N-CA	-10.38	1.30	1.45
2	O	7	GLY	N-CA	-10.38	1.30	1.45
6	T	357	GLN	CA-C	-10.37	1.39	1.52
4	F	307	ILE	N-CA	10.37	1.58	1.46
2	U	7	GLY	N-CA	-10.37	1.30	1.45
6	Z	366	ILE	N-CA	-10.36	1.34	1.46
4	F	485	LEU	CA-CB	-10.35	1.35	1.53
4	L	320	GLU	N-CA	10.35	1.59	1.46
6	T	366	ILE	N-CA	-10.34	1.34	1.46
4	X	307	ILE	N-CA	10.33	1.58	1.46
4	L	443	HIS	CA-C	10.32	1.66	1.52
4	R	307	ILE	N-CA	10.32	1.58	1.46
4	F	443	HIS	CA-C	10.31	1.66	1.52
4	L	485	LEU	CA-CB	-10.31	1.35	1.53
4	X	485	LEU	CA-CB	-10.30	1.35	1.53
4	L	237	GLN	CA-C	10.30	1.65	1.52
4	F	320	GLU	N-CA	10.30	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	307	ILE	N-CA	10.30	1.58	1.46
4	R	485	LEU	CA-CB	-10.29	1.36	1.53
5	M	252	CYS	CA-CB	10.28	1.68	1.53
3	P	1510	GLN	N-CA	-10.28	1.33	1.46
4	R	237	GLN	CA-C	10.28	1.65	1.52
4	X	443	HIS	CA-C	10.27	1.66	1.52
5	G	380	ILE	CA-C	10.26	1.66	1.52
5	S	252	CYS	CA-CB	10.24	1.68	1.53
6	T	488	ILE	N-CA	-10.22	1.33	1.46
5	Y	252	CYS	CA-CB	10.22	1.68	1.53
4	R	443	HIS	CA-C	10.22	1.66	1.52
4	X	237	GLN	CA-C	10.22	1.65	1.52
6	N	488	ILE	N-CA	-10.22	1.33	1.46
4	R	394	GLU	C-N	10.20	1.46	1.33
5	G	334	GLY	CA-C	10.20	1.63	1.52
6	H	488	ILE	N-CA	-10.20	1.33	1.46
5	S	334	GLY	CA-C	10.20	1.63	1.52
4	F	404	GLN	CA-CB	10.18	1.67	1.53
4	L	404	GLN	CA-CB	10.18	1.67	1.53
6	H	446	ARG	CA-CB	-10.17	1.37	1.53
5	M	334	GLY	CA-C	10.17	1.63	1.52
6	T	446	ARG	CA-CB	-10.16	1.37	1.53
4	F	237	GLN	CA-C	10.16	1.65	1.52
6	H	370	GLU	CA-CB	-10.16	1.37	1.53
6	T	370	GLU	CA-CB	-10.16	1.37	1.53
6	N	370	GLU	CA-CB	-10.15	1.37	1.53
6	N	446	ARG	CA-CB	-10.15	1.37	1.53
4	X	394	GLU	C-N	10.15	1.46	1.33
5	G	252	CYS	CA-CB	10.15	1.68	1.53
6	Z	446	ARG	CA-CB	-10.13	1.37	1.53
5	Y	334	GLY	CA-C	10.13	1.63	1.52
6	Z	488	ILE	N-CA	-10.13	1.33	1.46
3	D	1510	GLN	N-CA	-10.12	1.33	1.46
6	T	403	LEU	CA-C	-10.12	1.38	1.52
6	T	467	THR	CA-C	-10.10	1.39	1.52
4	L	394	GLU	C-N	10.09	1.46	1.33
6	Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	R	404	GLN	CA-CB	10.08	1.67	1.53
4	F	394	GLU	C-N	10.07	1.46	1.33
3	D	1475	ALA	N-CA	-10.06	1.33	1.46
4	X	404	GLN	CA-CB	10.06	1.67	1.53
6	N	403	LEU	CA-C	-10.04	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	467	THR	CA-C	-10.03	1.39	1.52
3	D	1547	LEU	N-CA	-10.02	1.33	1.46
3	P	1475	ALA	N-CA	-10.02	1.34	1.46
6	Z	487	TRP	CA-CB	10.01	1.69	1.53
6	Z	403	LEU	CA-C	-10.00	1.38	1.52
6	N	467	THR	CA-C	-9.98	1.39	1.52
6	H	403	LEU	CA-C	-9.97	1.38	1.52
6	N	487	TRP	CA-CB	9.96	1.68	1.53
3	P	1547	LEU	N-CA	-9.96	1.33	1.46
6	Z	467	THR	CA-C	-9.96	1.39	1.52
6	H	487	TRP	CA-CB	9.96	1.68	1.53
6	T	487	TRP	CA-CB	9.94	1.68	1.53
3	D	1518	ASN	N-CA	-9.92	1.34	1.46
6	N	371	LYS	N-CA	-9.90	1.34	1.46
3	P	1518	ASN	N-CA	-9.89	1.34	1.46
4	X	454	TYR	C-O	9.87	1.36	1.24
6	H	371	LYS	N-CA	-9.85	1.34	1.46
4	F	454	TYR	C-O	9.85	1.36	1.24
4	L	454	TYR	C-O	9.84	1.36	1.24
4	R	454	TYR	C-O	9.84	1.36	1.24
5	G	332	PRO	CA-CB	9.83	1.67	1.54
6	T	371	LYS	N-CA	-9.83	1.34	1.46
5	M	332	PRO	CA-CB	9.82	1.67	1.54
6	Z	371	LYS	N-CA	-9.81	1.34	1.46
4	X	449	SER	N-CA	9.80	1.58	1.46
4	L	482	LYS	N-CA	-9.80	1.34	1.46
3	D	1493	ARG	CA-C	-9.80	1.39	1.52
4	F	215	LYS	CA-CB	9.79	1.68	1.53
4	X	428	LYS	N-CA	-9.78	1.34	1.46
4	F	483	ASP	N-CA	-9.77	1.33	1.46
4	R	483	ASP	N-CA	-9.77	1.33	1.46
4	X	482	LYS	N-CA	-9.77	1.34	1.46
4	R	482	LYS	N-CA	-9.77	1.34	1.46
4	L	215	LYS	CA-CB	9.76	1.68	1.53
4	F	482	LYS	N-CA	-9.76	1.34	1.46
4	R	215	LYS	CA-CB	9.75	1.68	1.53
4	R	449	SER	N-CA	9.74	1.58	1.46
5	Y	332	PRO	CA-CB	9.74	1.67	1.54
5	G	312	LYS	CA-C	-9.74	1.40	1.52
4	L	335	ARG	CA-CB	9.74	1.68	1.53
5	G	276	SER	C-N	9.73	1.46	1.33
4	R	132	ASP	CA-C	-9.73	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	S	312	LYS	CA-C	-9.72	1.40	1.52
5	M	276	SER	C-N	9.72	1.46	1.33
4	X	483	ASP	N-CA	-9.72	1.33	1.46
4	L	449	SER	N-CA	9.71	1.58	1.46
4	L	483	ASP	N-CA	-9.71	1.33	1.46
4	X	335	ARG	CA-CB	9.71	1.68	1.53
5	Y	276	SER	C-N	9.71	1.46	1.33
4	F	449	SER	N-CA	9.71	1.58	1.46
4	F	335	ARG	CA-CB	9.70	1.68	1.53
5	S	332	PRO	CA-CB	9.70	1.67	1.54
4	R	428	LYS	N-CA	-9.69	1.34	1.46
4	X	215	LYS	CA-CB	9.69	1.68	1.53
6	H	353	GLN	CA-C	-9.69	1.40	1.52
4	L	428	LYS	N-CA	-9.68	1.34	1.46
3	P	1493	ARG	CA-C	-9.67	1.39	1.52
5	S	276	SER	C-N	9.67	1.46	1.33
6	Z	353	GLN	CA-C	-9.67	1.40	1.52
5	M	312	LYS	CA-C	-9.66	1.40	1.52
4	R	335	ARG	CA-CB	9.65	1.68	1.53
4	L	132	ASP	CA-C	-9.64	1.39	1.52
4	F	428	LYS	N-CA	-9.64	1.34	1.46
4	F	132	ASP	CA-C	-9.64	1.39	1.52
4	X	132	ASP	CA-C	-9.63	1.39	1.52
6	H	453	ASP	CA-CB	9.62	1.68	1.53
6	T	353	GLN	CA-C	-9.62	1.40	1.52
2	O	233	VAL	CA-C	-9.61	1.40	1.52
5	Y	312	LYS	CA-C	-9.61	1.40	1.52
6	Z	453	ASP	CA-CB	9.60	1.68	1.53
2	C	233	VAL	CA-C	-9.59	1.40	1.52
5	M	252	CYS	CA-C	-9.59	1.38	1.52
5	M	321	ASN	C-N	9.58	1.46	1.33
6	N	353	GLN	CA-C	-9.57	1.40	1.52
3	P	1484	ASP	N-CA	-9.57	1.34	1.46
6	N	453	ASP	CA-CB	9.57	1.68	1.53
5	Y	321	ASN	C-N	9.56	1.46	1.33
2	U	233	VAL	CA-C	-9.55	1.40	1.52
4	L	425	THR	N-CA	-9.54	1.33	1.46
3	D	1484	ASP	N-CA	-9.54	1.34	1.46
4	F	420	GLU	N-CA	9.54	1.57	1.46
2	I	233	VAL	CA-C	-9.54	1.40	1.52
4	X	420	GLU	N-CA	9.54	1.57	1.46
5	G	252	CYS	CA-C	-9.53	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	S	252	CYS	CA-C	-9.53	1.38	1.52
4	X	425	THR	N-CA	-9.52	1.33	1.46
5	G	321	ASN	C-N	9.51	1.46	1.33
6	T	453	ASP	CA-CB	9.51	1.68	1.53
3	D	1484	ASP	CA-C	-9.51	1.40	1.52
4	R	420	GLU	N-CA	9.51	1.57	1.46
5	S	321	ASN	C-N	9.51	1.46	1.33
4	F	425	THR	N-CA	-9.50	1.33	1.46
5	Y	252	CYS	CA-C	-9.50	1.38	1.52
6	H	415	LYS	N-CA	9.50	1.59	1.46
6	N	415	LYS	N-CA	9.50	1.59	1.46
3	P	1484	ASP	CA-C	-9.49	1.40	1.52
3	D	1488	GLY	N-CA	-9.48	1.33	1.45
4	L	420	GLU	N-CA	9.47	1.57	1.46
4	L	450	GLU	CA-CB	-9.46	1.37	1.53
5	G	276	SER	N-CA	9.46	1.58	1.46
4	F	450	GLU	CA-CB	-9.46	1.37	1.53
3	P	1488	GLY	N-CA	-9.46	1.33	1.45
6	T	402	GLU	N-CA	9.45	1.57	1.46
4	L	459	LEU	CA-CB	9.44	1.69	1.53
6	Z	415	LYS	N-CA	9.44	1.59	1.46
4	R	459	LEU	CA-CB	9.44	1.69	1.53
5	M	276	SER	N-CA	9.43	1.58	1.46
6	Z	402	GLU	N-CA	9.43	1.57	1.46
4	R	425	THR	N-CA	-9.43	1.33	1.46
4	F	459	LEU	CA-CB	9.42	1.69	1.53
4	X	450	GLU	CA-CB	-9.42	1.37	1.53
6	T	415	LYS	N-CA	9.42	1.59	1.46
4	R	339	VAL	CA-C	-9.40	1.40	1.52
5	Y	276	SER	N-CA	9.40	1.58	1.46
6	T	384	LEU	CA-C	9.39	1.65	1.52
6	Z	384	LEU	CA-C	9.38	1.65	1.52
4	R	450	GLU	CA-CB	-9.38	1.37	1.53
4	L	144	LEU	CA-C	9.37	1.65	1.52
4	F	334	LEU	CA-C	-9.35	1.40	1.52
6	N	402	GLU	N-CA	9.35	1.57	1.46
4	L	334	LEU	CA-C	-9.35	1.40	1.52
4	R	144	LEU	CA-C	9.35	1.65	1.52
4	X	339	VAL	CA-C	-9.35	1.40	1.52
4	X	459	LEU	CA-CB	9.35	1.69	1.53
4	R	446	ALA	CA-CB	9.34	1.67	1.53
4	R	334	LEU	CA-C	-9.34	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	144	LEU	CA-C	9.33	1.65	1.52
6	H	402	GLU	N-CA	9.33	1.57	1.46
5	S	276	SER	N-CA	9.33	1.58	1.46
4	X	452	ARG	CA-CB	9.33	1.69	1.53
4	X	144	LEU	CA-C	9.33	1.65	1.52
4	F	446	ALA	CA-CB	9.32	1.67	1.53
4	F	339	VAL	CA-C	-9.31	1.40	1.52
4	F	452	ARG	CA-CB	9.31	1.69	1.53
6	H	384	LEU	CA-C	9.31	1.64	1.52
6	N	384	LEU	CA-C	9.31	1.64	1.52
4	X	334	LEU	CA-C	-9.31	1.40	1.52
4	R	452	ARG	CA-CB	9.30	1.69	1.53
4	R	405	ALA	N-CA	-9.29	1.34	1.46
4	F	405	ALA	N-CA	-9.28	1.34	1.46
4	L	339	VAL	CA-C	-9.28	1.40	1.52
4	L	446	ALA	CA-CB	9.27	1.67	1.53
4	L	452	ARG	CA-CB	9.26	1.69	1.53
4	X	446	ALA	CA-CB	9.26	1.67	1.53
4	X	320	GLU	CA-CB	-9.25	1.38	1.53
4	R	320	GLU	CA-CB	-9.24	1.38	1.53
4	F	449	SER	C-O	9.23	1.35	1.24
4	X	405	ALA	N-CA	-9.23	1.34	1.46
3	P	1513	LEU	CA-C	-9.22	1.40	1.52
3	D	1507	ASP	C-N	9.22	1.46	1.33
4	L	320	GLU	CA-CB	-9.22	1.38	1.53
3	D	1513	LEU	CA-C	-9.21	1.40	1.52
5	Y	342	PRO	CA-CB	9.20	1.66	1.53
4	F	320	GLU	CA-CB	-9.19	1.38	1.53
4	L	405	ALA	N-CA	-9.19	1.34	1.46
4	R	449	SER	C-O	9.19	1.35	1.24
4	X	237	GLN	N-CA	-9.19	1.34	1.46
6	Z	402	GLU	CA-CB	-9.18	1.39	1.53
3	P	1507	ASP	C-N	9.16	1.46	1.33
4	R	237	GLN	N-CA	-9.16	1.34	1.46
4	L	237	GLN	N-CA	-9.16	1.34	1.46
5	M	342	PRO	CA-CB	9.16	1.66	1.53
5	S	342	PRO	CA-CB	9.16	1.66	1.53
6	T	402	GLU	CA-CB	-9.16	1.39	1.53
4	X	231	LYS	N-CA	9.15	1.57	1.45
4	F	237	GLN	N-CA	-9.14	1.34	1.46
6	H	402	GLU	CA-CB	-9.14	1.39	1.53
4	L	449	SER	C-O	9.13	1.35	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	449	SER	C-O	9.12	1.35	1.24
4	L	436	SER	C-O	9.11	1.35	1.24
4	X	436	SER	C-O	9.11	1.35	1.24
4	F	231	LYS	N-CA	9.10	1.57	1.45
6	Z	373	THR	CA-C	9.10	1.64	1.52
6	N	402	GLU	CA-CB	-9.10	1.39	1.53
6	H	373	THR	CA-C	9.09	1.64	1.52
5	M	324	ILE	C-O	9.09	1.36	1.24
5	G	342	PRO	CA-CB	9.08	1.66	1.53
4	F	436	SER	C-O	9.08	1.35	1.24
4	X	416	THR	CA-C	-9.08	1.41	1.52
4	R	231	LYS	N-CA	9.08	1.57	1.45
3	P	1539	LEU	CA-C	-9.07	1.40	1.52
3	P	1516	LEU	N-CA	-9.06	1.35	1.46
3	D	1539	LEU	CA-C	-9.06	1.40	1.52
4	L	460	LEU	N-CA	-9.06	1.34	1.46
3	D	1516	LEU	N-CA	-9.05	1.35	1.46
4	R	436	SER	C-O	9.06	1.35	1.24
4	R	491	VAL	CA-CB	9.05	1.66	1.54
6	T	373	THR	CA-C	9.05	1.64	1.52
4	X	491	VAL	CA-CB	9.05	1.66	1.54
4	F	219	GLY	C-N	9.04	1.46	1.33
4	X	402	ALA	N-CA	9.04	1.57	1.46
5	G	324	ILE	C-O	9.03	1.36	1.24
6	N	373	THR	CA-C	9.03	1.64	1.52
4	F	416	THR	CA-C	-9.03	1.41	1.52
4	L	491	VAL	CA-CB	9.01	1.66	1.54
4	R	416	THR	CA-C	-9.01	1.41	1.52
4	X	460	LEU	N-CA	-9.01	1.34	1.46
5	Y	324	ILE	C-O	9.01	1.36	1.24
5	S	324	ILE	C-O	8.99	1.36	1.24
4	L	211	GLU	CA-CB	8.99	1.68	1.53
5	M	330	LYS	CA-CB	-8.99	1.38	1.54
4	L	416	THR	CA-C	-8.99	1.41	1.52
5	S	330	LYS	CA-CB	-8.99	1.38	1.54
6	N	412	GLU	CA-CB	8.98	1.66	1.53
6	T	412	GLU	CA-CB	8.98	1.66	1.53
4	L	231	LYS	N-CA	8.98	1.57	1.46
4	X	423	ALA	N-CA	-8.98	1.33	1.46
4	F	460	LEU	N-CA	-8.98	1.34	1.46
6	Z	412	GLU	CA-CB	8.97	1.66	1.53
4	L	402	ALA	N-CA	8.97	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	211	GLU	CA-CB	8.96	1.68	1.53
5	S	372	ALA	CA-C	-8.96	1.41	1.52
5	G	330	LYS	CA-CB	-8.96	1.38	1.54
4	F	211	GLU	CA-CB	8.96	1.68	1.53
4	F	402	ALA	N-CA	8.96	1.57	1.46
4	X	465	GLN	CA-CB	8.95	1.67	1.53
2	O	9	LEU	N-CA	-8.95	1.35	1.46
4	L	219	GLY	C-N	8.95	1.45	1.33
4	R	211	GLU	CA-CB	8.94	1.68	1.53
4	X	219	GLY	C-N	8.94	1.45	1.33
2	I	9	LEU	N-CA	-8.94	1.35	1.46
4	F	465	GLN	CA-CB	8.93	1.67	1.53
4	R	460	LEU	N-CA	-8.93	1.34	1.46
2	U	9	LEU	N-CA	-8.92	1.35	1.46
3	P	1506	VAL	CA-C	-8.92	1.41	1.52
4	R	423	ALA	N-CA	-8.92	1.33	1.46
2	C	9	LEU	N-CA	-8.91	1.35	1.46
6	H	412	GLU	CA-CB	8.91	1.66	1.53
4	F	423	ALA	N-CA	-8.91	1.33	1.46
4	R	219	GLY	C-N	8.91	1.45	1.33
5	Y	330	LYS	CA-CB	-8.91	1.38	1.54
4	L	465	GLN	CA-CB	8.91	1.67	1.53
4	F	491	VAL	CA-CB	8.90	1.66	1.54
3	D	1515	TYR	CA-C	-8.90	1.41	1.52
6	N	353	GLN	CA-CB	8.90	1.67	1.53
4	R	402	ALA	N-CA	8.90	1.57	1.46
4	L	423	ALA	N-CA	-8.90	1.33	1.46
4	R	465	GLN	CA-CB	8.89	1.67	1.53
3	D	1506	VAL	CA-C	-8.88	1.41	1.52
6	T	353	GLN	CA-CB	8.88	1.67	1.53
6	H	353	GLN	CA-CB	8.87	1.67	1.53
4	R	400	GLY	C-N	-8.85	1.21	1.33
4	F	400	GLY	C-N	-8.84	1.21	1.33
6	Z	353	GLN	CA-CB	8.84	1.67	1.53
3	P	1543	GLN	C-N	-8.83	1.23	1.33
5	M	372	ALA	CA-C	-8.81	1.41	1.52
3	P	1515	TYR	CA-C	-8.81	1.41	1.52
5	M	322	ALA	CA-CB	8.79	1.67	1.53
6	H	349	ARG	CA-C	-8.79	1.40	1.52
4	X	400	GLY	C-N	-8.79	1.21	1.33
3	D	1543	GLN	C-N	-8.79	1.23	1.33
4	L	400	GLY	C-N	-8.79	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	372	ALA	CA-C	-8.78	1.41	1.52
4	X	252	THR	N-CA	8.77	1.56	1.46
4	F	252	THR	N-CA	8.77	1.56	1.46
6	N	494	LEU	C-N	-8.76	1.21	1.33
6	T	349	ARG	CA-C	-8.76	1.40	1.52
5	Y	372	ALA	CA-C	-8.75	1.41	1.52
5	G	322	ALA	CA-CB	8.75	1.67	1.53
6	Z	349	ARG	CA-C	-8.74	1.40	1.52
4	R	252	THR	N-CA	8.74	1.56	1.46
6	Z	408	SER	C-N	-8.74	1.13	1.33
6	N	349	ARG	CA-C	-8.74	1.40	1.52
4	R	267	GLN	CA-CB	8.73	1.68	1.53
6	H	408	SER	C-N	-8.73	1.13	1.33
6	T	408	SER	C-N	-8.73	1.13	1.33
4	L	267	GLN	CA-CB	8.72	1.68	1.53
4	X	267	GLN	CA-CB	8.72	1.68	1.53
5	Y	322	ALA	CA-CB	8.72	1.67	1.53
4	F	436	SER	CA-CB	8.71	1.67	1.53
5	S	322	ALA	CA-CB	8.71	1.66	1.53
4	L	252	THR	N-CA	8.71	1.56	1.46
6	N	408	SER	C-N	-8.70	1.13	1.33
6	H	494	LEU	C-N	-8.69	1.21	1.33
6	T	494	LEU	C-N	-8.68	1.21	1.33
6	Z	494	LEU	C-N	-8.68	1.21	1.33
4	F	267	GLN	CA-CB	8.68	1.68	1.53
4	L	436	SER	CA-CB	8.66	1.67	1.53
4	R	436	SER	CA-CB	8.64	1.67	1.53
4	X	436	SER	CA-CB	8.64	1.67	1.53
4	X	421	LEU	N-CA	-8.61	1.36	1.46
6	T	467	THR	C-N	8.59	1.46	1.33
3	D	1448	MET	C-N	8.59	1.45	1.33
4	R	421	LEU	N-CA	-8.58	1.36	1.46
4	L	449	SER	CA-C	8.56	1.64	1.52
3	P	1448	MET	C-N	8.55	1.45	1.33
4	X	401	TYR	CA-C	8.55	1.64	1.52
4	F	421	LEU	N-CA	-8.54	1.36	1.46
4	F	401	TYR	CA-C	8.54	1.64	1.52
6	N	381	LYS	C-N	8.53	1.44	1.34
6	Z	467	THR	C-N	8.53	1.46	1.33
5	M	343	ALA	C-N	8.53	1.45	1.33
4	L	421	LEU	N-CA	-8.52	1.36	1.46
5	Y	325	ALA	C-N	8.52	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	H	467	THR	C-N	8.52	1.46	1.33
5	Y	343	ALA	C-N	8.51	1.45	1.33
4	R	405	ALA	CA-CB	8.51	1.67	1.53
4	R	401	TYR	CA-C	8.50	1.64	1.52
6	H	381	LYS	C-N	8.50	1.44	1.34
6	T	381	LYS	C-N	8.49	1.44	1.34
6	N	467	THR	C-N	8.49	1.46	1.33
6	Z	381	LYS	C-N	8.49	1.44	1.34
5	M	325	ALA	C-N	8.48	1.45	1.33
5	S	325	ALA	C-N	8.48	1.45	1.33
6	H	494	LEU	CA-CB	8.48	1.67	1.53
5	G	325	ALA	C-N	8.47	1.45	1.33
4	F	449	SER	CA-C	8.47	1.64	1.52
6	H	386	GLN	N-CA	-8.46	1.35	1.46
4	F	405	ALA	CA-CB	8.46	1.67	1.53
4	F	482	LYS	CA-C	8.46	1.63	1.52
4	R	403	ILE	C-N	8.46	1.43	1.33
4	X	405	ALA	CA-CB	8.46	1.67	1.53
4	X	403	ILE	C-N	8.45	1.43	1.33
6	Z	494	LEU	CA-CB	8.44	1.67	1.53
3	P	1484	ASP	C-N	8.44	1.45	1.33
5	Y	381	THR	N-CA	8.44	1.58	1.46
3	D	1484	ASP	C-N	8.43	1.45	1.33
4	X	449	SER	CA-C	8.43	1.64	1.52
6	Z	386	GLN	N-CA	-8.43	1.35	1.46
6	N	494	LEU	CA-CB	8.43	1.67	1.53
4	L	405	ALA	CA-CB	8.42	1.67	1.53
4	L	482	LYS	CA-C	8.42	1.63	1.52
5	M	381	THR	N-CA	8.42	1.58	1.46
5	S	381	THR	N-CA	8.41	1.58	1.46
3	D	1550	LEU	CA-C	-8.40	1.41	1.52
4	L	401	TYR	CA-C	8.40	1.64	1.52
4	R	449	SER	CA-C	8.40	1.64	1.52
3	P	1510	GLN	CA-C	-8.40	1.42	1.53
3	P	1550	LEU	CA-C	-8.40	1.41	1.52
5	S	343	ALA	C-N	8.40	1.45	1.33
5	G	325	ALA	N-CA	8.39	1.56	1.46
5	G	372	ALA	N-CA	-8.39	1.36	1.46
6	T	386	GLN	N-CA	-8.39	1.35	1.46
4	X	426	GLN	N-CA	-8.39	1.36	1.46
6	N	386	GLN	N-CA	-8.39	1.35	1.46
6	T	494	LEU	CA-CB	8.39	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	372	ALA	N-CA	-8.39	1.36	1.46
5	Y	325	ALA	N-CA	8.38	1.56	1.46
5	G	381	THR	N-CA	8.38	1.57	1.46
4	L	490	LEU	CA-C	8.38	1.64	1.52
4	F	403	ILE	C-N	8.38	1.43	1.33
4	X	221	GLN	CA-CB	8.38	1.67	1.53
4	X	408	GLU	CA-CB	8.38	1.67	1.53
5	G	343	ALA	C-N	8.38	1.45	1.33
4	L	408	GLU	CA-CB	8.36	1.67	1.53
4	X	482	LYS	CA-C	8.36	1.63	1.52
4	R	408	GLU	CA-CB	8.36	1.67	1.53
4	L	403	ILE	C-N	8.35	1.43	1.33
5	M	325	ALA	N-CA	8.35	1.56	1.46
5	G	361	ARG	CA-C	8.34	1.63	1.52
4	R	293	ILE	CA-C	-8.34	1.42	1.52
4	L	426	GLN	N-CA	-8.34	1.36	1.46
5	S	325	ALA	N-CA	8.34	1.56	1.46
4	R	490	LEU	CA-C	8.34	1.64	1.52
5	S	372	ALA	N-CA	-8.33	1.36	1.46
5	Y	361	ARG	CA-C	8.33	1.63	1.52
4	X	293	ILE	CA-C	-8.33	1.42	1.52
4	F	408	GLU	CA-CB	8.32	1.67	1.53
4	F	426	GLN	N-CA	-8.32	1.36	1.46
4	L	221	GLN	CA-CB	8.32	1.67	1.53
5	M	361	ARG	CA-C	8.32	1.63	1.52
4	R	221	GLN	CA-CB	8.32	1.67	1.53
5	G	371	LEU	CA-C	-8.31	1.42	1.52
5	S	371	LEU	CA-C	-8.31	1.42	1.52
5	Y	372	ALA	N-CA	-8.31	1.36	1.46
5	G	401	ALA	CA-C	-8.30	1.41	1.52
4	L	463	ILE	CA-CB	8.29	1.65	1.54
4	F	221	GLN	CA-CB	8.29	1.67	1.53
4	F	293	ILE	CA-C	-8.29	1.42	1.52
4	F	490	LEU	CA-C	8.29	1.64	1.52
5	M	401	ALA	CA-C	-8.28	1.42	1.52
5	Y	371	LEU	CA-C	-8.28	1.42	1.52
5	M	371	LEU	CA-C	-8.27	1.42	1.52
4	R	482	LYS	CA-C	8.27	1.63	1.52
4	L	293	ILE	CA-C	-8.26	1.42	1.52
3	P	1518	ASN	CA-C	-8.26	1.42	1.52
4	R	426	GLN	N-CA	-8.26	1.36	1.46
3	D	1518	ASN	CA-C	-8.25	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	490	LEU	CA-C	8.25	1.63	1.52
3	D	1548	LYS	CA-C	-8.25	1.42	1.52
4	F	235	ASP	CA-C	-8.24	1.42	1.52
4	X	463	ILE	CA-CB	8.24	1.65	1.54
5	Y	401	ALA	CA-C	-8.24	1.42	1.52
5	S	401	ALA	CA-C	-8.23	1.42	1.52
3	P	1548	LYS	CA-C	-8.22	1.42	1.52
6	T	467	THR	N-CA	8.21	1.56	1.46
5	S	361	ARG	CA-C	8.21	1.63	1.52
6	Z	403	LEU	N-CA	8.20	1.57	1.46
6	Z	467	THR	N-CA	8.20	1.56	1.46
6	N	467	THR	N-CA	8.19	1.56	1.46
5	G	398	ALA	N-CA	8.18	1.56	1.46
4	L	328	VAL	CA-CB	-8.18	1.43	1.53
4	L	235	ASP	CA-C	-8.18	1.42	1.52
4	L	429	GLY	N-CA	-8.18	1.35	1.45
4	F	463	ILE	CA-CB	8.18	1.65	1.54
4	X	235	ASP	CA-C	-8.17	1.42	1.52
4	R	320	GLU	CA-C	-8.17	1.41	1.52
4	F	320	GLU	CA-C	-8.17	1.41	1.52
6	H	403	LEU	N-CA	8.17	1.56	1.46
4	R	463	ILE	CA-CB	8.16	1.65	1.54
6	N	403	LEU	N-CA	8.16	1.56	1.46
5	S	398	ALA	N-CA	8.16	1.56	1.46
4	R	132	ASP	CA-CB	8.15	1.66	1.53
4	X	429	GLY	N-CA	-8.15	1.35	1.45
4	X	320	GLU	CA-C	-8.14	1.41	1.52
4	F	429	GLY	N-CA	-8.14	1.35	1.45
6	H	467	THR	N-CA	8.14	1.56	1.46
4	X	328	VAL	CA-CB	-8.14	1.43	1.53
4	L	250	ASN	CA-C	-8.14	1.42	1.53
4	X	305	ASP	C-N	-8.14	1.22	1.33
4	R	235	ASP	CA-C	-8.13	1.42	1.52
5	Y	398	ALA	N-CA	8.13	1.56	1.46
6	T	403	LEU	N-CA	8.12	1.56	1.46
6	H	466	ASP	C-N	8.11	1.44	1.34
4	R	328	VAL	CA-CB	-8.11	1.43	1.53
4	F	250	ASN	CA-C	-8.10	1.42	1.53
4	F	483	ASP	C-N	8.10	1.44	1.33
4	R	483	ASP	C-N	8.10	1.44	1.33
6	T	407	LEU	CA-C	-8.10	1.41	1.52
6	Z	500	GLU	CA-C	8.10	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	250	ASN	CA-C	-8.10	1.42	1.53
6	H	500	GLU	CA-C	8.09	1.63	1.52
5	M	398	ALA	N-CA	8.09	1.56	1.46
4	X	440	MET	N-CA	8.09	1.56	1.46
4	R	305	ASP	C-N	-8.09	1.22	1.33
6	Z	466	ASP	C-N	8.09	1.44	1.34
4	F	132	ASP	CA-CB	8.09	1.66	1.53
4	X	132	ASP	CA-CB	8.09	1.66	1.53
4	L	305	ASP	C-N	-8.08	1.22	1.33
4	R	250	ASN	CA-C	-8.08	1.42	1.53
4	X	483	ASP	C-N	8.08	1.44	1.33
4	L	320	GLU	CA-C	-8.07	1.41	1.52
4	L	132	ASP	CA-CB	8.07	1.66	1.53
4	R	440	MET	N-CA	8.07	1.55	1.46
4	F	328	VAL	CA-CB	-8.06	1.43	1.53
6	N	466	ASP	C-N	8.06	1.44	1.34
2	C	11	GLN	CA-CB	-8.06	1.40	1.53
6	Z	407	LEU	CA-C	-8.06	1.41	1.52
4	F	465	GLN	N-CA	8.06	1.55	1.46
2	C	4	GLU	CA-C	8.05	1.64	1.52
4	R	477	LEU	CA-C	-8.06	1.42	1.52
6	T	493	ALA	C-N	8.06	1.45	1.33
2	O	4	GLU	CA-C	8.05	1.64	1.52
2	U	11	GLN	CA-CB	-8.05	1.40	1.53
6	N	493	ALA	C-N	8.05	1.45	1.33
4	F	401	TYR	CA-CB	8.04	1.67	1.53
4	R	401	TYR	CA-CB	8.04	1.67	1.53
4	F	477	LEU	CA-C	-8.04	1.42	1.52
4	L	475	SER	CA-C	-8.04	1.42	1.52
4	L	401	TYR	CA-CB	8.04	1.67	1.53
4	L	477	LEU	CA-C	-8.04	1.42	1.52
4	R	465	GLN	N-CA	8.04	1.55	1.46
6	Z	468	SER	CA-CB	-8.04	1.40	1.53
3	D	1522	LEU	CA-C	-8.03	1.42	1.52
2	U	4	GLU	CA-C	8.03	1.64	1.52
4	F	323	ILE	N-CA	-8.03	1.39	1.46
4	R	429	GLY	N-CA	-8.03	1.35	1.45
4	L	473	GLY	CA-C	-8.03	1.43	1.52
4	L	483	ASP	C-N	8.02	1.44	1.33
4	F	440	MET	N-CA	8.02	1.55	1.46
6	H	493	ALA	C-N	8.02	1.45	1.33
4	X	465	GLN	N-CA	8.02	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	468	SER	CA-CB	-8.02	1.40	1.53
4	X	477	LEU	CA-C	-8.02	1.42	1.52
4	F	305	ASP	C-N	-8.02	1.22	1.33
6	T	500	GLU	CA-C	8.02	1.63	1.52
2	I	4	GLU	CA-C	8.02	1.64	1.52
5	S	317	GLN	CA-CB	8.01	1.66	1.53
4	L	465	GLN	N-CA	8.01	1.55	1.46
6	Z	493	ALA	C-N	8.00	1.44	1.33
6	H	407	LEU	CA-C	-8.00	1.41	1.52
4	L	487	ASP	C-N	8.00	1.43	1.33
6	H	468	SER	CA-CB	-8.00	1.40	1.53
3	P	1662	CYS	C-N	7.99	1.43	1.33
6	T	466	ASP	C-N	7.99	1.44	1.34
4	X	204	SER	N-CA	7.99	1.56	1.46
6	N	500	GLU	CA-C	7.99	1.63	1.52
4	F	475	SER	CA-C	-7.98	1.42	1.52
4	L	440	MET	N-CA	7.98	1.55	1.46
5	M	317	GLN	CA-CB	7.98	1.66	1.53
4	R	323	ILE	N-CA	-7.98	1.39	1.46
6	T	468	SER	CA-CB	-7.98	1.40	1.53
4	X	401	TYR	CA-CB	7.98	1.67	1.53
3	P	1473	TYR	N-CA	-7.97	1.36	1.46
2	O	11	GLN	CA-CB	-7.97	1.41	1.53
4	X	475	SER	CA-C	-7.97	1.42	1.52
5	Y	317	GLN	CA-CB	7.96	1.66	1.53
3	D	1662	CYS	C-N	7.96	1.43	1.33
4	F	449	SER	CA-CB	-7.96	1.40	1.53
6	H	371	LYS	CA-C	-7.96	1.42	1.52
3	P	1522	LEU	CA-C	-7.96	1.42	1.52
4	L	449	SER	CA-CB	-7.96	1.40	1.53
6	N	407	LEU	CA-C	-7.96	1.41	1.52
4	R	449	SER	CA-CB	-7.96	1.40	1.53
5	M	302	GLN	N-CA	-7.95	1.36	1.46
4	R	475	SER	CA-C	-7.95	1.42	1.52
2	I	11	GLN	CA-CB	-7.95	1.41	1.53
4	F	473	GLY	CA-C	-7.95	1.43	1.52
4	X	473	GLY	CA-C	-7.95	1.43	1.52
6	T	371	LYS	CA-C	-7.94	1.42	1.52
4	F	443	HIS	CA-CB	-7.94	1.40	1.53
6	N	472	GLN	N-CA	-7.94	1.35	1.46
4	L	443	HIS	CA-CB	-7.94	1.40	1.53
5	G	317	GLN	CA-CB	7.92	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	443	HIS	CA-CB	-7.92	1.40	1.53
5	S	377	ASN	CA-C	-7.92	1.42	1.52
4	X	487	ASP	C-N	7.92	1.43	1.33
6	T	472	GLN	N-CA	-7.91	1.35	1.46
6	H	472	GLN	N-CA	-7.91	1.35	1.46
4	X	449	SER	CA-CB	-7.90	1.40	1.53
3	P	1449	TRP	N-CA	7.90	1.56	1.46
6	Z	472	GLN	N-CA	-7.89	1.35	1.46
4	R	443	HIS	CA-CB	-7.89	1.40	1.53
4	R	487	ASP	C-N	7.89	1.43	1.33
4	F	487	ASP	C-N	7.89	1.43	1.33
5	Y	302	GLN	N-CA	-7.88	1.36	1.46
3	D	1473	TYR	N-CA	-7.88	1.36	1.46
4	R	473	GLY	CA-C	-7.87	1.43	1.52
3	D	1449	TRP	N-CA	7.86	1.56	1.46
6	H	408	SER	CA-CB	7.85	1.65	1.53
4	L	323	ILE	N-CA	-7.85	1.39	1.46
6	Z	408	SER	CA-CB	7.85	1.65	1.53
4	F	204	SER	N-CA	7.84	1.56	1.46
5	S	302	GLN	N-CA	-7.84	1.36	1.46
6	N	371	LYS	CA-C	-7.84	1.42	1.52
5	G	322	ALA	CA-C	7.84	1.62	1.52
4	X	323	ILE	N-CA	-7.84	1.39	1.46
5	Y	377	ASN	CA-C	-7.84	1.42	1.52
4	L	269	ASN	N-CA	7.83	1.55	1.46
4	R	204	SER	N-CA	7.83	1.56	1.46
4	L	204	SER	N-CA	7.83	1.56	1.46
6	Z	371	LYS	CA-C	-7.83	1.42	1.52
5	Y	322	ALA	CA-C	7.82	1.62	1.52
5	M	377	ASN	CA-C	-7.81	1.42	1.52
6	T	408	SER	CA-CB	7.81	1.65	1.53
5	G	377	ASN	CA-C	-7.80	1.42	1.52
3	D	1510	GLN	CA-C	-7.80	1.42	1.52
5	G	302	GLN	N-CA	-7.80	1.37	1.46
5	S	322	ALA	CA-C	7.79	1.62	1.52
6	N	408	SER	CA-CB	7.78	1.65	1.53
4	R	269	ASN	N-CA	7.78	1.55	1.46
4	X	269	ASN	N-CA	7.78	1.55	1.46
4	F	269	ASN	N-CA	7.77	1.55	1.46
3	D	1491	ILE	C-O	7.76	1.32	1.24
4	L	460	LEU	CA-CB	7.74	1.66	1.53
5	M	322	ALA	CA-C	7.73	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	M	348	ILE	N-CA	7.73	1.55	1.46
5	M	342	PRO	C-N	7.72	1.44	1.33
4	R	434	LEU	N-CA	-7.72	1.37	1.46
5	S	342	PRO	C-N	7.70	1.44	1.33
4	F	460	LEU	CA-CB	7.69	1.66	1.53
5	S	348	ILE	N-CA	7.69	1.55	1.46
3	P	1491	ILE	C-O	7.69	1.32	1.24
4	X	460	LEU	CA-CB	7.68	1.66	1.53
4	X	486	GLU	CA-C	7.68	1.62	1.52
5	G	348	ILE	N-CA	7.68	1.55	1.46
5	G	342	PRO	C-N	7.67	1.44	1.33
4	F	434	LEU	N-CA	-7.67	1.37	1.46
4	L	486	GLU	CA-C	7.67	1.62	1.52
4	X	398	LYS	C-O	-7.67	1.13	1.24
5	Y	342	PRO	C-N	7.66	1.44	1.33
4	L	434	LEU	N-CA	-7.64	1.37	1.46
5	Y	348	ILE	N-CA	7.64	1.55	1.46
4	R	460	LEU	CA-CB	7.64	1.66	1.53
4	X	434	LEU	N-CA	-7.64	1.37	1.46
4	F	486	GLU	CA-C	7.63	1.62	1.52
4	F	398	LYS	C-O	-7.61	1.13	1.24
4	R	398	LYS	C-O	-7.60	1.13	1.24
6	Z	468	SER	N-CA	7.60	1.56	1.46
6	N	466	ASP	CA-C	7.60	1.62	1.52
4	F	348	GLN	CA-C	-7.59	1.43	1.52
6	N	468	SER	N-CA	7.59	1.56	1.46
4	R	486	GLU	CA-C	7.58	1.62	1.52
6	H	468	SER	N-CA	7.58	1.56	1.46
4	L	348	GLN	CA-C	-7.58	1.43	1.52
6	H	466	ASP	CA-C	7.57	1.62	1.52
5	G	331	THR	N-CA	7.56	1.54	1.46
5	G	376	ASN	CA-C	-7.56	1.43	1.52
5	Y	366	GLU	N-CA	-7.55	1.36	1.46
5	G	366	GLU	N-CA	-7.55	1.36	1.46
5	S	331	THR	N-CA	7.55	1.54	1.46
6	Z	466	ASP	CA-C	7.55	1.62	1.52
4	L	398	LYS	C-O	-7.55	1.13	1.24
4	X	348	GLN	CA-C	-7.54	1.43	1.52
5	M	253	GLN	CA-C	-7.53	1.42	1.52
5	G	253	GLN	CA-C	-7.53	1.42	1.52
4	X	365	GLN	CA-C	-7.53	1.43	1.52
6	T	468	SER	N-CA	7.52	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	R	348	GLN	CA-C	-7.52	1.43	1.52
5	S	325	ALA	C-O	7.52	1.33	1.24
5	Y	261	PHE	CA-C	7.52	1.62	1.52
5	S	253	GLN	CA-C	-7.51	1.43	1.52
4	F	303	GLY	CA-C	7.51	1.62	1.51
5	S	326	LEU	CA-CB	7.51	1.66	1.53
3	P	1543	GLN	CA-C	-7.50	1.43	1.52
5	M	376	ASN	CA-C	-7.50	1.43	1.52
2	O	11	GLN	CA-C	-7.50	1.43	1.52
5	M	331	THR	N-CA	7.50	1.54	1.46
4	X	303	GLY	CA-C	7.50	1.62	1.51
3	D	1504	VAL	CA-C	-7.50	1.42	1.52
5	G	325	ALA	C-O	7.50	1.33	1.24
5	Y	297	ALA	CA-C	-7.50	1.43	1.52
5	Y	253	GLN	CA-C	-7.49	1.43	1.52
4	L	365	GLN	CA-C	-7.49	1.43	1.52
6	T	390	ASP	CA-C	-7.49	1.43	1.52
4	L	303	GLY	CA-C	7.49	1.62	1.51
5	G	261	PHE	CA-C	7.49	1.62	1.52
5	M	325	ALA	C-O	7.49	1.33	1.24
6	N	489	ASP	CA-C	7.48	1.62	1.52
5	S	366	GLU	N-CA	-7.48	1.36	1.46
5	Y	326	LEU	CA-CB	7.48	1.66	1.53
5	M	297	ALA	CA-C	-7.48	1.43	1.52
6	Z	390	ASP	CA-C	-7.47	1.43	1.52
5	Y	376	ASN	CA-C	-7.47	1.43	1.52
6	H	489	ASP	CA-C	7.47	1.62	1.52
6	T	466	ASP	CA-C	7.47	1.62	1.52
5	Y	331	THR	N-CA	7.46	1.54	1.46
3	D	1543	GLN	CA-C	-7.46	1.43	1.52
6	Z	412	GLU	N-CA	7.45	1.55	1.46
5	M	261	PHE	CA-C	7.45	1.62	1.52
5	Y	325	ALA	C-O	7.45	1.33	1.24
4	F	365	GLN	CA-C	-7.45	1.43	1.52
4	X	492	GLU	CA-CB	7.44	1.66	1.53
4	R	492	GLU	CA-CB	7.44	1.66	1.53
5	M	366	GLU	N-CA	-7.44	1.36	1.46
3	P	1504	VAL	CA-C	-7.44	1.42	1.52
5	M	326	LEU	CA-CB	7.43	1.66	1.53
5	S	376	ASN	CA-C	-7.42	1.43	1.52
6	N	390	ASP	CA-C	-7.42	1.43	1.52
5	S	261	PHE	CA-C	7.42	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	464	LYS	C-N	7.42	1.42	1.33
5	G	327	ARG	C-O	7.42	1.33	1.24
4	R	365	GLN	CA-C	-7.42	1.43	1.52
6	H	468	SER	CA-C	7.42	1.62	1.52
5	M	327	ARG	C-O	7.41	1.33	1.24
4	R	303	GLY	CA-C	7.41	1.62	1.51
5	G	297	ALA	CA-C	-7.41	1.43	1.52
6	T	412	GLU	N-CA	7.41	1.55	1.46
4	F	492	GLU	CA-CB	7.40	1.66	1.53
4	R	425	THR	CA-C	-7.40	1.42	1.52
5	S	297	ALA	CA-C	-7.40	1.43	1.52
5	G	326	LEU	CA-CB	7.39	1.66	1.53
6	H	390	ASP	CA-C	-7.39	1.43	1.52
2	I	11	GLN	CA-C	-7.39	1.43	1.52
5	Y	327	ARG	C-O	7.39	1.33	1.24
2	C	11	GLN	CA-C	-7.39	1.43	1.52
4	F	425	THR	CA-C	-7.38	1.42	1.52
4	X	425	THR	CA-C	-7.38	1.42	1.52
4	F	415	ASP	CA-C	-7.38	1.43	1.52
4	F	298	GLN	CA-C	-7.38	1.42	1.53
6	Z	468	SER	CA-C	7.38	1.62	1.52
4	R	298	GLN	CA-C	-7.37	1.42	1.53
6	N	412	GLU	N-CA	7.36	1.55	1.46
4	L	231	LYS	CA-CB	7.36	1.70	1.53
4	L	492	GLU	CA-CB	7.36	1.66	1.53
4	R	472	GLU	CA-C	7.35	1.62	1.52
4	R	464	LYS	C-N	7.35	1.42	1.33
6	H	412	GLU	N-CA	7.35	1.55	1.46
3	D	1469	ILE	CA-C	-7.34	1.43	1.52
4	L	415	ASP	CA-C	-7.34	1.43	1.52
4	X	472	GLU	CA-C	7.34	1.62	1.52
3	D	1503	ILE	N-CA	-7.33	1.37	1.46
4	X	415	ASP	CA-C	-7.33	1.43	1.52
2	O	5	GLY	CA-C	-7.33	1.41	1.51
4	F	472	GLU	CA-C	7.32	1.62	1.52
6	T	468	SER	CA-C	7.32	1.62	1.52
2	U	11	GLN	CA-C	-7.32	1.43	1.52
2	I	5	GLY	CA-C	-7.32	1.41	1.51
3	P	1503	ILE	N-CA	-7.32	1.37	1.46
4	R	415	ASP	CA-C	-7.32	1.43	1.52
5	S	248	PRO	CA-CB	7.32	1.68	1.53
4	X	298	GLN	CA-C	-7.32	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	442	ASN	C-N	7.31	1.44	1.33
4	X	442	ASN	C-N	7.31	1.44	1.33
2	C	5	GLY	CA-C	-7.31	1.41	1.51
3	P	1469	ILE	CA-C	-7.31	1.44	1.52
6	N	468	SER	CA-C	7.30	1.62	1.52
4	L	464	LYS	C-N	7.30	1.42	1.33
4	L	472	GLU	CA-C	7.29	1.62	1.52
5	M	248	PRO	CA-CB	7.29	1.68	1.53
6	H	378	GLU	C-N	7.29	1.42	1.33
4	L	425	THR	CA-C	-7.29	1.42	1.52
5	G	248	PRO	CA-CB	7.28	1.68	1.53
6	T	489	ASP	CA-C	7.28	1.62	1.52
6	Z	489	ASP	CA-C	7.28	1.62	1.52
2	U	5	GLY	CA-C	-7.28	1.41	1.51
5	S	302	GLN	CA-CB	-7.27	1.41	1.53
6	Z	378	GLU	C-N	7.26	1.42	1.33
4	R	442	ASN	C-N	7.26	1.43	1.33
5	S	340	ALA	C-N	7.26	1.48	1.33
5	Y	302	GLN	CA-C	-7.26	1.43	1.52
5	S	327	ARG	C-O	7.26	1.33	1.24
5	Y	248	PRO	CA-CB	7.26	1.68	1.53
5	M	302	GLN	CA-CB	-7.25	1.41	1.53
4	F	442	ASN	C-N	7.24	1.43	1.33
6	Z	471	LEU	CA-CB	7.24	1.64	1.53
6	T	418	SER	N-CA	-7.23	1.38	1.46
6	Z	418	SER	N-CA	-7.23	1.38	1.46
4	L	298	GLN	CA-C	-7.23	1.42	1.53
5	M	321	ASN	N-CA	-7.22	1.36	1.46
6	T	378	GLU	C-N	7.22	1.42	1.33
5	G	340	ALA	C-N	7.22	1.48	1.33
4	F	464	LYS	C-N	7.22	1.42	1.33
5	M	347	ARG	CA-C	-7.22	1.42	1.52
6	N	378	GLU	C-N	7.22	1.42	1.33
5	Y	321	ASN	N-CA	-7.22	1.36	1.46
5	G	302	GLN	CA-CB	-7.21	1.42	1.53
4	F	231	LYS	CA-CB	7.21	1.70	1.53
4	R	231	LYS	CA-CB	7.21	1.70	1.53
4	F	410	LEU	CA-C	-7.21	1.43	1.52
4	L	410	LEU	CA-C	-7.20	1.43	1.52
4	R	460	LEU	C-O	7.20	1.33	1.24
5	M	340	ALA	C-N	7.20	1.48	1.33
4	L	491	VAL	C-N	-7.20	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	321	ASN	N-CA	-7.19	1.36	1.46
6	T	471	LEU	CA-CB	7.19	1.64	1.53
7	J	704	VAL	CA-CB	-7.19	1.50	1.54
4	X	339	VAL	CA-CB	-7.18	1.45	1.54
5	Y	302	GLN	CA-CB	-7.18	1.42	1.53
4	F	306	PRO	CA-CB	-7.18	1.42	1.53
4	F	491	VAL	C-N	-7.18	1.23	1.33
5	S	302	GLN	CA-C	-7.18	1.43	1.52
3	D	1483	ARG	CA-C	-7.17	1.43	1.52
6	N	471	LEU	CA-CB	7.17	1.64	1.53
4	X	231	LYS	CA-CB	7.16	1.70	1.53
4	X	491	VAL	C-N	-7.16	1.23	1.33
5	G	347	ARG	CA-C	-7.16	1.42	1.52
4	R	410	LEU	CA-C	-7.16	1.43	1.52
6	H	418	SER	N-CA	-7.15	1.38	1.46
6	H	471	LEU	CA-CB	7.15	1.64	1.53
4	R	491	VAL	C-N	-7.15	1.23	1.33
5	M	302	GLN	CA-C	-7.15	1.43	1.52
3	P	1483	ARG	CA-C	-7.15	1.43	1.52
5	G	302	GLN	CA-C	-7.14	1.43	1.52
5	S	347	ARG	CA-C	-7.14	1.42	1.52
6	N	418	SER	N-CA	-7.14	1.38	1.46
4	X	460	LEU	C-O	7.14	1.32	1.24
5	Y	340	ALA	C-N	7.14	1.48	1.33
4	X	410	LEU	CA-C	-7.13	1.43	1.52
4	L	310	GLU	CA-C	-7.13	1.43	1.52
3	D	1549	ALA	N-CA	-7.13	1.37	1.46
5	S	321	ASN	N-CA	-7.13	1.36	1.46
5	Y	347	ARG	CA-C	-7.12	1.42	1.52
4	R	310	GLU	CA-C	-7.12	1.43	1.52
4	L	245	VAL	CA-C	-7.12	1.43	1.52
4	X	306	PRO	CA-CB	-7.12	1.42	1.53
4	L	339	VAL	CA-CB	-7.11	1.45	1.54
4	F	421	LEU	C-N	7.11	1.42	1.33
4	X	245	VAL	CA-C	-7.11	1.43	1.52
6	Z	386	GLN	CA-C	-7.11	1.43	1.52
4	L	460	LEU	C-O	7.10	1.32	1.24
4	R	245	VAL	CA-C	-7.10	1.43	1.52
4	F	310	GLU	CA-C	-7.09	1.43	1.52
4	F	460	LEU	C-O	7.09	1.32	1.24
4	L	306	PRO	CA-CB	-7.09	1.42	1.53
4	F	339	VAL	CA-CB	-7.09	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	P	1549	ALA	N-CA	-7.09	1.37	1.46
5	S	380	ILE	C-N	7.08	1.48	1.33
4	X	310	GLU	CA-C	-7.08	1.43	1.52
4	F	397	ARG	N-CA	-7.07	1.37	1.46
5	G	380	ILE	C-N	7.07	1.48	1.33
4	R	339	VAL	CA-CB	-7.07	1.45	1.54
6	H	386	GLN	CA-C	-7.07	1.43	1.52
4	R	306	PRO	CA-CB	-7.06	1.42	1.53
4	X	206	GLN	C-N	7.05	1.44	1.33
4	L	421	LEU	C-N	7.05	1.42	1.33
5	M	323	GLU	N-CA	7.05	1.55	1.46
6	N	386	GLN	CA-C	-7.04	1.43	1.52
6	T	386	GLN	CA-C	-7.04	1.43	1.52
5	M	380	ILE	C-N	7.03	1.48	1.33
4	F	233	LEU	CA-C	7.03	1.61	1.52
4	L	460	LEU	C-N	7.03	1.43	1.33
7	V	704	VAL	CA-CB	-7.03	1.50	1.54
5	Y	380	ILE	C-N	7.02	1.48	1.33
4	R	421	LEU	C-N	7.02	1.42	1.33
5	Y	406	ILE	CA-C	-7.02	1.44	1.52
5	S	323	GLU	N-CA	7.01	1.55	1.46
4	F	245	VAL	CA-C	-7.00	1.43	1.52
4	X	460	LEU	C-N	7.00	1.43	1.33
5	Y	323	GLU	N-CA	7.00	1.55	1.46
4	L	233	LEU	CA-C	7.00	1.61	1.52
4	R	233	LEU	CA-C	6.99	1.61	1.52
4	X	233	LEU	CA-C	6.99	1.61	1.52
6	Z	414	VAL	N-CA	6.99	1.54	1.46
5	G	323	GLU	N-CA	6.99	1.55	1.46
6	T	414	VAL	N-CA	6.98	1.54	1.46
6	H	414	VAL	N-CA	6.98	1.54	1.46
4	X	421	LEU	C-N	6.98	1.42	1.33
4	F	460	LEU	C-N	6.98	1.43	1.33
4	F	206	GLN	C-N	6.97	1.43	1.33
6	N	414	VAL	N-CA	6.97	1.54	1.46
4	R	397	ARG	N-CA	-6.97	1.37	1.46
4	R	206	GLN	C-N	6.96	1.43	1.33
6	N	363	ARG	CA-CB	6.96	1.64	1.53
4	R	460	LEU	C-N	6.96	1.43	1.33
3	P	1494	MET	N-CA	-6.96	1.37	1.46
4	X	397	ARG	N-CA	-6.95	1.37	1.46
5	S	406	ILE	CA-C	-6.95	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	408	GLU	N-CA	-6.95	1.37	1.46
6	T	363	ARG	CA-CB	6.95	1.64	1.53
5	Y	373	THR	CA-CB	-6.95	1.42	1.53
4	L	397	ARG	N-CA	-6.95	1.37	1.46
4	L	408	GLU	N-CA	-6.94	1.37	1.46
6	Z	352	LEU	N-CA	-6.94	1.38	1.46
4	F	443	HIS	C-O	6.94	1.32	1.24
6	H	363	ARG	CA-CB	6.94	1.64	1.53
4	R	408	GLU	N-CA	-6.94	1.37	1.46
5	G	406	ILE	CA-C	-6.93	1.44	1.52
5	M	345	TYR	C-O	-6.93	1.15	1.24
4	F	408	GLU	N-CA	-6.92	1.37	1.46
5	M	406	ILE	CA-C	-6.92	1.44	1.52
5	S	373	THR	CA-CB	-6.92	1.42	1.53
5	G	345	TYR	C-O	-6.92	1.15	1.24
3	D	1494	MET	N-CA	-6.91	1.37	1.46
6	Z	363	ARG	CA-CB	6.91	1.64	1.53
4	L	206	GLN	C-N	6.91	1.43	1.33
4	R	443	HIS	C-O	6.91	1.32	1.24
5	G	343	ALA	C-O	6.90	1.32	1.24
4	L	205	GLN	N-CA	-6.90	1.38	1.46
4	X	443	HIS	C-O	6.90	1.32	1.24
5	G	373	THR	CA-CB	-6.89	1.42	1.53
5	S	343	ALA	C-O	6.89	1.32	1.24
5	S	345	TYR	C-O	-6.88	1.15	1.24
6	T	352	LEU	N-CA	-6.88	1.38	1.46
5	Y	345	TYR	C-O	-6.87	1.15	1.24
4	L	200	THR	CA-C	6.87	1.61	1.52
4	L	443	HIS	C-O	6.87	1.32	1.24
4	R	205	GLN	N-CA	-6.87	1.38	1.46
5	M	373	THR	CA-CB	-6.87	1.42	1.53
4	L	199	GLU	C-N	-6.86	1.25	1.33
4	X	199	GLU	C-N	-6.85	1.25	1.33
4	X	205	GLN	N-CA	-6.85	1.38	1.46
6	H	352	LEU	N-CA	-6.85	1.38	1.46
5	Y	343	ALA	C-O	6.84	1.32	1.24
4	R	398	LYS	N-CA	-6.84	1.37	1.46
4	X	200	THR	CA-C	6.84	1.61	1.52
5	Y	264	GLU	CA-C	-6.83	1.43	1.52
4	F	205	GLN	N-CA	-6.83	1.38	1.46
4	R	199	GLU	C-N	-6.82	1.25	1.33
4	L	469	GLN	CA-CB	-6.82	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	200	THR	CA-C	6.82	1.61	1.52
4	L	306	PRO	C-N	6.81	1.42	1.33
4	X	398	LYS	N-CA	-6.81	1.37	1.46
6	H	362	ASP	CA-C	-6.81	1.43	1.52
5	M	343	ALA	C-O	6.80	1.32	1.24
6	N	362	ASP	CA-C	-6.80	1.43	1.52
5	G	264	GLU	CA-C	-6.79	1.44	1.52
6	Z	362	ASP	CA-C	-6.79	1.43	1.52
4	X	403	ILE	CA-C	-6.79	1.44	1.52
6	N	352	LEU	N-CA	-6.79	1.38	1.46
5	M	264	GLU	CA-C	-6.78	1.44	1.52
4	R	200	THR	CA-C	6.78	1.61	1.52
5	S	255	VAL	C-N	6.78	1.42	1.33
4	F	254	ARG	CA-CB	6.78	1.65	1.53
4	L	398	LYS	N-CA	-6.78	1.37	1.46
4	X	399	SER	CA-C	-6.78	1.43	1.52
4	F	469	GLN	CA-CB	-6.77	1.42	1.53
4	F	399	SER	CA-C	-6.76	1.43	1.52
4	R	469	GLN	CA-CB	-6.76	1.42	1.53
3	P	1538	SER	C-N	6.76	1.43	1.34
5	S	344	ASP	C-N	-6.76	1.24	1.34
4	R	399	SER	CA-C	-6.76	1.43	1.52
5	S	264	GLU	CA-C	-6.75	1.44	1.52
5	Y	255	VAL	C-N	6.75	1.42	1.33
4	R	306	PRO	C-N	6.75	1.42	1.33
4	F	398	LYS	N-CA	-6.75	1.37	1.46
4	X	469	GLN	CA-CB	-6.75	1.42	1.53
4	F	199	GLU	C-N	-6.74	1.25	1.33
4	R	365	GLN	N-CA	6.74	1.54	1.46
4	X	254	ARG	CA-CB	6.74	1.64	1.53
4	X	306	PRO	C-N	6.74	1.42	1.33
5	M	410	VAL	CA-C	-6.74	1.44	1.52
6	T	501	GLU	N-CA	-6.74	1.37	1.46
5	S	410	VAL	CA-C	-6.73	1.44	1.52
4	R	249	PRO	CA-CB	-6.73	1.44	1.53
4	X	365	GLN	N-CA	6.73	1.54	1.46
4	L	403	ILE	CA-C	-6.72	1.44	1.52
4	L	412	VAL	CA-C	-6.72	1.44	1.52
4	L	254	ARG	CA-CB	6.71	1.64	1.53
6	N	501	GLU	N-CA	-6.71	1.37	1.46
4	F	306	PRO	C-N	6.71	1.42	1.33
4	R	412	VAL	CA-C	-6.71	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	412	VAL	CA-C	-6.71	1.44	1.52
4	F	327	MET	CA-C	-6.70	1.44	1.52
4	F	440	MET	C-N	6.70	1.42	1.33
4	L	399	SER	CA-C	-6.70	1.43	1.52
3	D	1538	SER	C-N	6.70	1.43	1.34
4	F	249	PRO	CA-CB	-6.70	1.44	1.53
4	X	249	PRO	CA-CB	-6.70	1.44	1.53
4	L	249	PRO	CA-CB	-6.70	1.44	1.53
5	G	410	VAL	CA-C	-6.70	1.44	1.52
6	Z	501	GLU	N-CA	-6.70	1.37	1.46
2	U	5	GLY	C-N	-6.68	1.23	1.33
5	G	346	PHE	CA-CB	6.68	1.63	1.53
6	H	501	GLU	N-CA	-6.68	1.37	1.46
4	R	254	ARG	CA-CB	6.68	1.64	1.53
4	L	365	GLN	N-CA	6.67	1.54	1.46
5	M	346	PHE	CA-CB	6.67	1.63	1.53
4	R	403	ILE	CA-C	-6.67	1.44	1.52
4	F	365	GLN	N-CA	6.67	1.54	1.46
5	G	255	VAL	C-N	6.67	1.42	1.33
5	G	344	ASP	C-N	-6.67	1.24	1.34
4	R	440	MET	C-N	6.67	1.42	1.33
5	Y	344	ASP	C-N	-6.67	1.24	1.34
4	X	440	MET	C-N	6.66	1.42	1.33
4	L	404	GLN	N-CA	-6.66	1.35	1.46
6	T	362	ASP	CA-C	-6.66	1.43	1.52
2	I	6	PHE	C-N	-6.65	1.23	1.33
5	S	346	PHE	CA-CB	6.65	1.63	1.53
5	Y	410	VAL	CA-C	-6.65	1.44	1.52
5	M	344	ASP	C-N	-6.65	1.24	1.34
2	C	6	PHE	C-N	-6.64	1.23	1.33
4	X	327	MET	CA-C	-6.64	1.44	1.52
4	L	440	MET	C-N	6.64	1.42	1.33
2	O	6	PHE	C-N	-6.64	1.23	1.33
3	D	1684	ALA	CA-C	-6.63	1.44	1.53
4	R	327	MET	CA-C	-6.63	1.44	1.52
3	P	1487	ASP	N-CA	-6.63	1.37	1.46
5	Y	346	PHE	CA-CB	6.63	1.63	1.53
5	M	255	VAL	C-N	6.62	1.42	1.33
4	F	254	ARG	CA-C	-6.62	1.44	1.52
4	L	254	ARG	CA-C	-6.61	1.44	1.52
4	L	327	MET	CA-C	-6.61	1.44	1.52
4	F	403	ILE	CA-C	-6.61	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	S	263	LYS	CA-C	-6.61	1.43	1.52
4	R	208	GLN	CA-C	-6.60	1.44	1.52
3	P	1662	CYS	CA-C	6.60	1.61	1.52
4	L	142	ASN	CA-C	6.60	1.60	1.52
5	G	275	MET	N-CA	6.60	1.54	1.46
4	X	490	LEU	CA-CB	6.60	1.64	1.53
3	P	1684	ALA	CA-C	-6.59	1.44	1.53
4	R	490	LEU	CA-CB	6.59	1.64	1.53
4	F	490	LEU	CA-CB	6.59	1.64	1.53
4	R	254	ARG	CA-C	-6.59	1.44	1.52
4	X	412	VAL	CA-C	-6.59	1.44	1.52
4	X	404	GLN	N-CA	-6.58	1.35	1.46
2	I	5	GLY	C-N	-6.58	1.23	1.33
4	R	142	ASN	CA-C	6.58	1.60	1.52
5	M	335	LEU	CA-CB	-6.58	1.42	1.53
3	P	1478	MET	CA-C	-6.58	1.44	1.52
4	F	404	GLN	N-CA	-6.58	1.36	1.46
5	Y	263	LYS	CA-C	-6.57	1.43	1.52
5	Y	335	LEU	CA-CB	-6.57	1.42	1.53
4	F	304	VAL	CA-C	-6.57	1.45	1.52
4	L	490	LEU	CA-CB	6.57	1.64	1.53
4	R	404	GLN	N-CA	-6.57	1.36	1.46
5	S	335	LEU	CA-CB	-6.57	1.42	1.53
2	O	5	GLY	C-N	-6.56	1.23	1.33
4	L	208	GLN	CA-C	-6.56	1.44	1.52
4	F	208	GLN	CA-C	-6.55	1.44	1.52
5	S	349	LEU	CA-C	-6.55	1.43	1.52
4	X	405	ALA	CA-C	-6.55	1.44	1.52
3	D	1662	CYS	CA-C	6.55	1.61	1.52
3	P	1685	LEU	CA-C	-6.55	1.46	1.53
2	U	6	PHE	C-N	-6.55	1.24	1.33
5	S	275	MET	N-CA	6.54	1.54	1.46
4	X	254	ARG	CA-C	-6.54	1.44	1.52
5	G	349	LEU	CA-C	-6.54	1.44	1.52
4	X	208	GLN	CA-C	-6.54	1.44	1.52
5	Y	275	MET	N-CA	6.54	1.54	1.46
3	D	1487	ASP	N-CA	-6.54	1.37	1.46
5	Y	390	GLN	N-CA	6.54	1.54	1.46
5	G	263	LYS	CA-C	-6.53	1.44	1.52
5	M	263	LYS	CA-C	-6.53	1.44	1.52
2	C	5	GLY	C-N	-6.53	1.23	1.33
3	D	1685	LEU	CA-C	-6.52	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	390	GLN	N-CA	6.52	1.54	1.46
4	X	304	VAL	CA-C	-6.52	1.45	1.52
5	Y	349	LEU	CA-C	-6.52	1.44	1.52
3	D	1478	MET	CA-C	-6.52	1.44	1.52
4	R	304	VAL	CA-C	-6.51	1.45	1.52
5	M	275	MET	N-CA	6.51	1.54	1.46
5	M	349	LEU	CA-C	-6.51	1.44	1.52
4	X	142	ASN	CA-C	6.50	1.60	1.52
4	X	215	LYS	CA-C	6.50	1.61	1.52
5	G	335	LEU	CA-CB	-6.49	1.42	1.53
4	L	405	ALA	CA-C	-6.49	1.44	1.52
4	F	215	LYS	CA-C	6.47	1.61	1.52
4	R	405	ALA	CA-C	-6.46	1.44	1.52
5	S	249	PRO	CA-CB	-6.46	1.44	1.53
5	M	390	GLN	N-CA	6.46	1.54	1.46
4	F	142	ASN	CA-C	6.46	1.60	1.52
2	U	2	ASP	CA-C	-6.46	1.44	1.52
3	P	1470	ILE	N-CA	-6.45	1.39	1.46
5	G	249	PRO	CA-CB	-6.45	1.44	1.53
4	F	405	ALA	CA-C	-6.44	1.44	1.52
5	S	390	GLN	N-CA	6.43	1.54	1.46
4	R	215	LYS	CA-C	6.43	1.61	1.52
4	L	304	VAL	CA-C	-6.43	1.45	1.52
4	X	223	LEU	C-N	6.43	1.42	1.33
3	D	1470	ILE	N-CA	-6.42	1.39	1.46
4	L	215	LYS	CA-C	6.41	1.61	1.52
4	F	430	ARG	N-CA	-6.41	1.38	1.46
4	X	430	ARG	N-CA	-6.41	1.38	1.46
2	C	2	ASP	CA-C	-6.41	1.44	1.52
4	R	483	ASP	CA-C	6.40	1.61	1.52
4	L	223	LEU	C-N	6.40	1.41	1.33
2	O	2	ASP	CA-C	-6.39	1.44	1.52
2	I	10	LEU	CA-C	-6.39	1.44	1.52
5	Y	275	MET	CA-CB	6.38	1.63	1.53
6	Z	409	PRO	C-O	6.38	1.32	1.24
5	M	275	MET	CA-CB	6.38	1.63	1.53
5	G	275	MET	CA-CB	6.38	1.63	1.53
7	J	1476	ASP	C-N	6.37	1.39	1.33
5	S	275	MET	CA-CB	6.37	1.63	1.53
4	F	223	LEU	C-N	6.37	1.41	1.33
6	H	366	ILE	CA-C	6.36	1.60	1.52
4	L	483	ASP	CA-C	6.36	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	208	GLN	N-CA	-6.36	1.38	1.46
2	I	2	ASP	CA-C	-6.36	1.44	1.52
4	L	208	GLN	N-CA	-6.35	1.38	1.46
4	F	433	GLU	CA-C	6.35	1.61	1.52
5	M	249	PRO	CA-CB	-6.35	1.44	1.53
4	R	430	ARG	N-CA	-6.35	1.38	1.46
5	M	319	LEU	CA-C	-6.34	1.44	1.52
6	T	409	PRO	C-O	6.34	1.32	1.24
3	P	1499	LEU	CA-C	-6.34	1.44	1.52
4	X	396	GLN	N-CA	6.34	1.53	1.46
3	D	1503	ILE	C-N	6.34	1.41	1.34
4	L	421	LEU	CA-C	-6.34	1.44	1.52
4	X	433	GLU	CA-C	6.34	1.61	1.52
5	Y	249	PRO	CA-C	-6.34	1.43	1.52
6	N	366	ILE	CA-C	6.33	1.60	1.52
3	P	1503	ILE	C-N	6.33	1.41	1.34
4	L	328	VAL	N-CA	6.33	1.55	1.46
5	Y	249	PRO	CA-CB	-6.33	1.44	1.53
4	L	433	GLU	CA-C	6.32	1.61	1.52
2	C	10	LEU	CA-C	-6.32	1.44	1.52
4	R	208	GLN	N-CA	-6.32	1.38	1.46
4	L	430	ARG	N-CA	-6.32	1.38	1.46
4	X	421	LEU	CA-C	-6.32	1.44	1.52
4	X	483	ASP	CA-C	6.32	1.61	1.52
5	G	249	PRO	CA-C	-6.31	1.43	1.52
5	M	340	ALA	CA-CB	-6.31	1.44	1.52
4	F	208	GLN	N-CA	-6.31	1.38	1.46
6	N	409	PRO	C-O	6.31	1.32	1.24
4	R	411	ARG	N-CA	-6.31	1.38	1.46
5	M	249	PRO	CA-C	-6.30	1.43	1.52
4	R	203	ARG	C-N	6.30	1.42	1.33
5	S	249	PRO	CA-C	-6.30	1.43	1.52
5	Y	411	LYS	CA-C	-6.30	1.44	1.52
7	V	1476	ASP	C-N	6.29	1.39	1.33
6	Z	366	ILE	CA-C	6.29	1.60	1.52
5	G	319	LEU	CA-C	-6.29	1.44	1.52
4	F	421	LEU	CA-C	-6.29	1.44	1.52
4	F	396	GLN	N-CA	6.29	1.53	1.46
4	F	483	ASP	CA-C	6.29	1.61	1.52
5	Y	340	ALA	CA-CB	-6.29	1.44	1.52
3	D	1544	PRO	C-O	6.28	1.31	1.24
4	R	433	GLU	CA-C	6.28	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	S	264	GLU	CA-CB	-6.28	1.43	1.53
2	O	10	LEU	CA-C	-6.28	1.44	1.52
3	P	1532	ASP	CA-C	-6.28	1.44	1.52
5	S	340	ALA	CA-CB	-6.28	1.44	1.52
4	L	411	ARG	N-CA	-6.28	1.38	1.46
3	D	1532	ASP	CA-C	-6.28	1.44	1.52
4	X	339	VAL	N-CA	6.27	1.53	1.46
3	P	1492	GLY	C-N	6.26	1.42	1.33
6	H	409	PRO	C-O	6.26	1.32	1.24
4	R	421	LEU	CA-C	-6.26	1.44	1.52
3	P	1531	GLU	C-N	6.26	1.42	1.33
5	M	264	GLU	CA-CB	-6.25	1.43	1.53
6	H	413	LEU	CA-C	-6.24	1.45	1.52
6	T	366	ILE	CA-C	6.24	1.60	1.52
3	D	1492	GLY	C-N	6.24	1.42	1.33
2	U	10	LEU	CA-C	-6.24	1.44	1.52
4	F	328	VAL	N-CA	6.24	1.55	1.46
6	H	498	LYS	N-CA	6.24	1.54	1.46
3	D	1531	GLU	C-N	6.23	1.42	1.33
4	F	430	ARG	CA-C	-6.23	1.45	1.52
4	R	430	ARG	CA-C	-6.23	1.45	1.52
4	X	430	ARG	CA-C	-6.23	1.45	1.52
5	S	319	LEU	CA-C	-6.22	1.44	1.52
4	R	223	LEU	C-N	6.22	1.41	1.33
5	Y	319	LEU	CA-C	-6.22	1.44	1.52
5	G	411	LYS	CA-C	-6.22	1.44	1.52
6	T	413	LEU	CA-C	-6.21	1.45	1.52
4	F	331	LYS	CA-CB	6.21	1.64	1.53
4	F	339	VAL	N-CA	6.21	1.53	1.46
4	X	411	ARG	N-CA	-6.21	1.38	1.46
3	P	1544	PRO	C-O	6.20	1.31	1.24
4	L	430	ARG	CA-C	-6.20	1.45	1.52
4	F	442	ASN	C-O	6.20	1.31	1.24
6	T	498	LYS	N-CA	6.20	1.54	1.46
4	R	339	VAL	N-CA	6.20	1.53	1.46
4	R	328	VAL	N-CA	6.20	1.55	1.46
4	R	396	GLN	N-CA	6.19	1.53	1.46
6	Z	413	LEU	CA-C	-6.19	1.45	1.52
5	G	264	GLU	CA-CB	-6.19	1.43	1.53
5	G	340	ALA	CA-CB	-6.19	1.44	1.52
4	X	328	VAL	N-CA	6.19	1.55	1.46
4	F	203	ARG	C-N	6.18	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	S	401	ALA	N-CA	-6.18	1.39	1.46
4	X	442	ASN	C-O	6.18	1.31	1.24
3	D	1499	LEU	CA-C	-6.17	1.44	1.52
4	L	396	GLN	N-CA	6.17	1.53	1.46
5	M	411	LYS	CA-C	-6.17	1.44	1.52
5	S	411	LYS	CA-C	-6.17	1.44	1.52
4	F	411	ARG	N-CA	-6.17	1.38	1.46
4	R	331	LYS	CA-CB	6.16	1.64	1.53
6	N	447	MET	N-CA	6.16	1.53	1.46
5	Y	264	GLU	CA-CB	-6.16	1.43	1.53
4	R	442	ASN	C-O	6.16	1.31	1.24
4	L	442	ASN	CA-C	6.15	1.60	1.52
4	L	236	ASP	CA-C	6.15	1.63	1.52
4	X	331	LYS	CA-CB	6.15	1.64	1.53
4	F	236	ASP	CA-C	6.15	1.63	1.52
4	L	331	LYS	CA-CB	6.14	1.64	1.53
4	X	203	ARG	C-N	6.14	1.42	1.33
6	N	413	LEU	CA-C	-6.14	1.45	1.52
3	P	1509	GLN	CA-C	-6.14	1.44	1.52
3	D	1509	GLN	CA-C	-6.14	1.44	1.52
4	F	251	GLY	C-O	-6.14	1.15	1.23
4	X	448	ARG	CA-C	6.13	1.61	1.52
4	F	448	ARG	CA-C	6.13	1.61	1.52
4	X	335	ARG	N-CA	6.13	1.53	1.46
4	L	335	ARG	N-CA	6.12	1.53	1.46
6	Z	498	LYS	N-CA	6.12	1.53	1.46
5	Y	369	ASN	N-CA	6.12	1.54	1.46
4	L	448	ARG	CA-C	6.11	1.61	1.52
5	M	369	ASN	N-CA	6.11	1.54	1.46
4	L	339	VAL	N-CA	6.11	1.53	1.46
4	R	251	GLY	C-O	-6.11	1.15	1.23
4	R	448	ARG	CA-C	6.11	1.61	1.52
4	X	251	GLY	C-O	-6.11	1.15	1.23
5	M	360	TYR	CA-C	-6.10	1.45	1.52
3	D	1536	LEU	CA-C	6.10	1.60	1.52
5	G	360	TYR	CA-C	-6.10	1.45	1.52
5	G	369	ASN	N-CA	6.10	1.54	1.46
2	U	9	LEU	C-N	6.09	1.42	1.34
6	Z	447	MET	N-CA	6.09	1.53	1.46
4	L	203	ARG	C-N	6.08	1.42	1.33
4	L	291	ALA	CA-C	-6.08	1.44	1.52
3	P	1536	LEU	CA-C	6.08	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	236	ASP	CA-C	6.08	1.63	1.52
4	X	291	ALA	CA-C	-6.08	1.44	1.52
6	Z	384	LEU	CA-CB	-6.08	1.43	1.53
4	X	249	PRO	CA-C	6.07	1.62	1.52
5	Y	360	TYR	CA-C	-6.07	1.45	1.52
4	L	251	GLY	C-O	-6.07	1.15	1.23
3	D	1518	ASN	C-O	6.07	1.31	1.24
5	M	401	ALA	N-CA	-6.07	1.39	1.46
5	S	360	TYR	CA-C	-6.07	1.45	1.52
4	F	249	PRO	CA-C	6.06	1.62	1.52
4	F	492	GLU	N-CA	6.06	1.54	1.46
3	P	1516	LEU	C-N	6.06	1.41	1.33
4	F	442	ASN	CA-C	6.06	1.60	1.52
5	G	401	ALA	N-CA	-6.06	1.39	1.46
4	R	236	ASP	CA-C	6.06	1.63	1.52
3	D	1516	LEU	C-N	6.05	1.41	1.33
4	R	291	ALA	CA-C	-6.05	1.44	1.52
4	R	335	ARG	N-CA	6.05	1.53	1.46
6	T	447	MET	N-CA	6.05	1.53	1.46
4	X	492	GLU	N-CA	6.05	1.53	1.46
2	C	9	LEU	C-N	6.04	1.42	1.34
4	F	291	ALA	CA-C	-6.04	1.44	1.52
6	H	447	MET	N-CA	6.04	1.53	1.46
4	L	442	ASN	C-O	6.04	1.31	1.24
6	T	384	LEU	CA-CB	-6.04	1.43	1.53
6	N	498	LYS	N-CA	6.04	1.53	1.46
4	X	442	ASN	CA-C	6.04	1.60	1.52
4	R	249	PRO	CA-C	6.04	1.62	1.52
5	S	369	ASN	N-CA	6.04	1.54	1.46
4	F	335	ARG	N-CA	6.03	1.53	1.46
5	Y	401	ALA	N-CA	-6.03	1.39	1.46
6	H	384	LEU	CA-CB	-6.03	1.43	1.53
3	P	1518	ASN	C-O	6.03	1.31	1.24
2	U	6	PHE	C-O	-6.03	1.16	1.24
6	N	393	LEU	N-CA	-6.02	1.38	1.46
4	R	442	ASN	CA-C	6.02	1.60	1.52
3	D	1531	GLU	N-CA	-6.02	1.38	1.46
4	L	249	PRO	CA-C	6.01	1.62	1.52
3	D	1489	HIS	C-O	-6.01	1.16	1.23
4	L	492	GLU	N-CA	6.01	1.53	1.46
6	N	384	LEU	CA-CB	-6.01	1.44	1.53
2	I	6	PHE	C-O	-6.00	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	P	1489	HIS	C-O	-6.00	1.16	1.23
4	X	250	ASN	C-O	-6.00	1.16	1.23
4	R	432	ASN	CA-C	6.00	1.61	1.52
4	F	319	SER	C-N	6.00	1.43	1.33
6	N	407	LEU	N-CA	-5.99	1.38	1.46
4	F	432	ASN	CA-C	5.98	1.61	1.52
3	D	1540	LEU	CA-C	5.98	1.60	1.52
3	P	1540	LEU	CA-C	5.98	1.60	1.52
4	X	319	SER	C-N	5.98	1.43	1.33
4	F	250	ASN	C-O	-5.98	1.16	1.23
6	H	446	ARG	N-CA	5.98	1.53	1.46
3	P	1531	GLU	N-CA	-5.98	1.38	1.46
5	M	339	TYR	CA-C	-5.97	1.47	1.53
2	I	9	LEU	C-N	5.97	1.42	1.34
2	O	6	PHE	C-O	-5.97	1.16	1.24
5	M	274	ARG	C-N	5.96	1.42	1.34
6	T	407	LEU	N-CA	-5.96	1.38	1.46
6	Z	407	LEU	N-CA	-5.96	1.38	1.46
2	C	6	PHE	C-O	-5.96	1.16	1.24
4	R	222	THR	CA-CB	-5.96	1.43	1.53
6	T	378	GLU	N-CA	-5.96	1.38	1.46
4	L	222	THR	CA-CB	-5.95	1.43	1.53
2	O	9	LEU	C-N	5.95	1.42	1.34
3	P	1663	GLN	N-CA	5.95	1.52	1.46
4	X	432	ASN	CA-C	5.95	1.61	1.52
5	Y	274	ARG	C-N	5.95	1.42	1.34
6	H	378	GLU	N-CA	-5.95	1.38	1.46
4	R	250	ASN	C-O	-5.94	1.16	1.23
5	M	303	ARG	N-CA	-5.94	1.38	1.46
4	F	444	PHE	N-CA	5.94	1.53	1.46
5	G	364	ILE	CA-C	-5.94	1.45	1.52
3	D	1663	GLN	N-CA	5.94	1.52	1.46
4	L	419	GLY	N-CA	5.94	1.55	1.45
4	L	444	PHE	N-CA	5.94	1.53	1.46
4	X	266	GLU	CA-C	-5.94	1.44	1.52
4	X	419	GLY	N-CA	5.94	1.55	1.45
4	R	492	GLU	N-CA	5.93	1.53	1.46
5	M	364	ILE	CA-C	-5.93	1.45	1.52
5	Y	339	TYR	CA-C	-5.93	1.47	1.53
4	L	250	ASN	C-O	-5.93	1.16	1.23
4	L	319	SER	C-N	5.93	1.43	1.33
4	F	419	GLY	N-CA	5.92	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	378	GLU	N-CA	-5.92	1.38	1.46
4	R	444	PHE	N-CA	5.92	1.53	1.46
4	F	266	GLU	CA-C	-5.91	1.44	1.52
5	G	274	ARG	C-N	5.91	1.42	1.34
6	H	393	LEU	N-CA	-5.91	1.38	1.46
4	X	489	LYS	N-CA	-5.91	1.38	1.46
5	Y	364	ILE	CA-C	-5.91	1.45	1.52
5	S	303	ARG	N-CA	-5.91	1.38	1.46
6	Z	495	LEU	C-N	5.91	1.41	1.33
4	X	444	PHE	N-CA	5.91	1.53	1.46
4	L	489	LYS	N-CA	-5.90	1.38	1.46
5	S	274	ARG	C-N	5.90	1.42	1.34
6	H	407	LEU	N-CA	-5.90	1.38	1.46
4	R	266	GLU	CA-C	-5.90	1.44	1.52
4	R	319	SER	C-N	5.90	1.42	1.33
6	Z	378	GLU	N-CA	-5.90	1.38	1.46
4	L	412	VAL	C-N	5.90	1.41	1.33
5	G	324	ILE	CA-CB	-5.89	1.46	1.54
5	S	339	TYR	CA-C	-5.89	1.47	1.53
5	M	368	GLU	N-CA	-5.89	1.38	1.46
6	N	446	ARG	N-CA	5.89	1.53	1.46
4	L	432	ASN	CA-C	5.89	1.61	1.52
4	L	266	GLU	CA-C	-5.89	1.44	1.52
5	M	324	ILE	CA-CB	-5.89	1.46	1.54
6	T	495	LEU	C-N	5.88	1.41	1.33
5	Y	324	ILE	CA-CB	-5.88	1.46	1.54
5	S	364	ILE	CA-C	-5.88	1.45	1.52
6	T	446	ARG	N-CA	5.88	1.53	1.46
6	T	393	LEU	N-CA	-5.88	1.38	1.46
4	X	222	THR	CA-CB	-5.87	1.43	1.53
5	M	272	ILE	CA-C	-5.87	1.45	1.52
3	P	1493	ARG	C-N	-5.86	1.25	1.33
7	V	1474	MET	C-N	5.86	1.40	1.33
6	H	495	LEU	C-N	5.86	1.41	1.33
5	Y	303	ARG	N-CA	-5.86	1.38	1.46
3	D	1493	ARG	C-N	-5.86	1.25	1.33
4	F	489	LYS	N-CA	-5.86	1.38	1.46
4	L	234	PRO	C-N	5.86	1.40	1.33
4	X	412	VAL	C-N	5.86	1.41	1.33
6	Z	393	LEU	N-CA	-5.86	1.38	1.46
4	R	412	VAL	C-N	5.85	1.41	1.33
2	U	9	LEU	CA-C	-5.85	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	O	15	GLN	C-N	5.84	1.41	1.33
4	F	222	THR	CA-CB	-5.84	1.43	1.53
5	G	272	ILE	CA-C	-5.84	1.45	1.52
4	X	270	ILE	N-CA	-5.84	1.39	1.46
5	Y	368	GLU	N-CA	-5.84	1.38	1.46
4	R	419	GLY	N-CA	5.84	1.55	1.45
5	S	324	ILE	CA-CB	-5.84	1.46	1.54
4	L	466	HIS	N-CA	-5.83	1.38	1.46
5	G	303	ARG	N-CA	-5.83	1.38	1.46
2	C	15	GLN	C-N	5.82	1.41	1.33
4	L	270	ILE	N-CA	-5.82	1.39	1.46
5	S	368	GLU	N-CA	-5.82	1.38	1.46
5	G	339	TYR	CA-C	-5.82	1.47	1.53
4	R	234	PRO	C-N	5.82	1.40	1.33
4	R	270	ILE	N-CA	-5.82	1.39	1.46
4	R	489	LYS	N-CA	-5.81	1.38	1.46
5	S	272	ILE	CA-C	-5.81	1.45	1.52
5	Y	272	ILE	CA-C	-5.81	1.45	1.52
6	Z	416	GLU	N-CA	-5.81	1.38	1.46
2	I	15	GLN	C-N	5.79	1.41	1.33
4	F	466	HIS	N-CA	-5.79	1.38	1.46
2	I	9	LEU	CA-C	-5.79	1.45	1.52
6	N	416	GLU	C-N	-5.79	1.26	1.33
4	F	270	ILE	N-CA	-5.78	1.39	1.46
4	X	466	HIS	N-CA	-5.78	1.38	1.46
6	T	416	GLU	N-CA	-5.78	1.38	1.46
6	Z	416	GLU	C-N	-5.78	1.26	1.33
6	Z	446	ARG	N-CA	5.78	1.53	1.46
7	J	1474	MET	C-N	5.78	1.40	1.33
4	R	466	HIS	N-CA	-5.78	1.38	1.46
4	F	234	PRO	C-N	5.77	1.40	1.33
2	U	15	GLN	C-N	5.77	1.41	1.33
5	G	368	GLU	N-CA	-5.77	1.38	1.46
6	N	395	PHE	C-N	5.77	1.41	1.34
6	H	416	GLU	N-CA	-5.76	1.38	1.46
3	P	1466	ASN	CA-C	-5.76	1.45	1.52
6	N	495	LEU	C-N	5.76	1.41	1.33
2	C	9	LEU	CA-C	-5.75	1.45	1.52
6	H	416	GLU	C-N	-5.74	1.26	1.33
4	F	412	VAL	C-N	5.74	1.41	1.33
3	D	1466	ASN	CA-C	-5.73	1.45	1.52
5	G	409	ASN	N-CA	-5.73	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	416	GLU	N-CA	-5.73	1.38	1.46
4	L	484	ASP	N-CA	5.73	1.53	1.46
5	M	409	ASN	N-CA	-5.73	1.39	1.46
2	O	9	LEU	CA-C	-5.73	1.45	1.52
5	Y	409	ASN	N-CA	-5.72	1.39	1.46
4	X	484	ASP	N-CA	5.72	1.53	1.46
4	X	424	PRO	N-CA	-5.72	1.40	1.47
5	S	409	ASN	N-CA	-5.71	1.39	1.46
6	T	416	GLU	C-N	-5.71	1.26	1.33
6	Z	395	PHE	C-N	5.71	1.40	1.34
6	N	496	GLN	C-O	5.71	1.30	1.24
4	X	234	PRO	C-N	5.71	1.40	1.33
5	Y	338	GLU	C-O	-5.71	1.15	1.23
4	F	454	TYR	N-CA	5.70	1.53	1.46
5	G	338	GLU	C-O	-5.70	1.15	1.23
4	L	454	TYR	N-CA	5.70	1.53	1.46
4	F	209	LEU	N-CA	-5.69	1.39	1.46
4	R	209	LEU	N-CA	-5.69	1.39	1.46
4	R	484	ASP	N-CA	5.69	1.53	1.46
4	R	424	PRO	N-CA	-5.69	1.40	1.47
4	X	454	TYR	N-CA	5.68	1.53	1.46
4	L	444	PHE	C-O	5.68	1.30	1.24
4	X	156	ASN	N-CA	-5.68	1.39	1.46
4	L	424	PRO	N-CA	-5.67	1.40	1.47
4	R	454	TYR	N-CA	5.67	1.53	1.46
6	H	395	PHE	C-N	5.66	1.40	1.34
4	F	156	ASN	N-CA	-5.66	1.39	1.46
6	H	496	GLN	C-O	5.65	1.30	1.24
6	H	395	PHE	CA-CB	-5.65	1.44	1.53
4	F	484	ASP	N-CA	5.65	1.53	1.46
2	C	7	GLY	C-O	-5.64	1.16	1.23
2	O	7	GLY	C-O	-5.64	1.16	1.23
4	L	156	ASN	N-CA	-5.64	1.39	1.46
4	F	424	PRO	N-CA	-5.64	1.40	1.47
6	Z	496	GLN	C-O	5.64	1.30	1.24
4	L	209	LEU	N-CA	-5.63	1.39	1.46
3	D	1503	ILE	CA-C	-5.63	1.45	1.52
4	L	459	LEU	N-CA	-5.63	1.39	1.46
4	R	156	ASN	N-CA	-5.63	1.39	1.46
4	R	444	PHE	C-O	5.63	1.30	1.24
6	T	395	PHE	C-N	5.63	1.40	1.34
6	N	395	PHE	CA-CB	-5.62	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	200	THR	CA-CB	-5.62	1.44	1.53
2	I	7	GLY	C-O	-5.62	1.16	1.23
5	G	320	LYS	CA-CB	5.61	1.62	1.53
6	T	395	PHE	CA-CB	-5.61	1.44	1.53
4	X	459	LEU	N-CA	-5.61	1.39	1.46
6	Z	395	PHE	CA-CB	-5.60	1.44	1.53
4	X	143	GLN	CA-CB	5.60	1.63	1.53
4	X	468	LYS	N-CA	-5.60	1.39	1.46
5	S	338	GLU	C-O	-5.60	1.15	1.23
3	D	1519	SER	C-O	5.60	1.31	1.24
4	L	453	TYR	C-N	5.59	1.41	1.33
4	R	459	LEU	N-CA	-5.59	1.39	1.46
5	M	338	GLU	C-O	-5.59	1.15	1.23
3	D	1487	ASP	C-O	5.59	1.31	1.24
4	R	316	ASN	CA-C	-5.59	1.46	1.53
6	Z	391	GLN	CA-CB	-5.59	1.44	1.53
4	L	200	THR	CA-CB	-5.59	1.44	1.53
4	R	453	TYR	C-N	5.59	1.41	1.33
6	T	391	GLN	CA-CB	-5.59	1.44	1.53
6	T	496	GLN	C-O	5.58	1.30	1.24
4	F	453	TYR	C-N	5.58	1.41	1.33
3	P	1503	ILE	CA-C	-5.58	1.45	1.52
6	H	391	GLN	CA-CB	-5.58	1.44	1.53
4	X	209	LEU	N-CA	-5.58	1.39	1.46
4	L	316	ASN	CA-C	-5.58	1.46	1.53
5	S	320	LYS	CA-CB	5.58	1.62	1.53
4	X	453	TYR	C-N	5.58	1.41	1.33
4	F	468	LYS	N-CA	-5.57	1.39	1.46
4	X	444	PHE	C-O	5.57	1.30	1.24
2	U	7	GLY	C-O	-5.57	1.16	1.23
4	F	316	ASN	CA-C	-5.57	1.46	1.53
6	N	391	GLN	CA-CB	-5.57	1.44	1.53
3	P	1487	ASP	C-O	5.57	1.30	1.24
4	R	468	LYS	N-CA	-5.57	1.39	1.46
5	M	320	LYS	CA-CB	5.56	1.62	1.53
6	Z	381	LYS	CA-C	-5.56	1.45	1.52
4	L	143	GLN	CA-CB	5.56	1.63	1.53
5	Y	320	LYS	CA-CB	5.56	1.62	1.53
6	Z	380	GLU	N-CA	-5.56	1.39	1.46
3	P	1519	SER	C-O	5.56	1.30	1.24
4	F	459	LEU	N-CA	-5.55	1.39	1.46
4	X	474	LEU	CA-C	-5.55	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	R	200	THR	CA-CB	-5.55	1.44	1.53
4	F	444	PHE	C-O	5.55	1.30	1.24
4	R	143	GLN	CA-CB	5.55	1.63	1.53
6	H	381	LYS	CA-C	-5.55	1.45	1.52
6	N	381	LYS	CA-C	-5.55	1.45	1.52
4	X	200	THR	CA-CB	-5.55	1.44	1.53
4	F	308	ILE	CA-C	-5.54	1.45	1.52
2	U	485	LEU	N-CA	-5.54	1.39	1.46
2	C	485	LEU	N-CA	-5.54	1.39	1.46
4	L	484	ASP	CA-CB	5.54	1.61	1.53
4	L	131	GLY	C-N	5.53	1.41	1.34
6	N	380	GLU	N-CA	-5.53	1.39	1.46
4	X	484	ASP	CA-CB	5.53	1.61	1.53
4	L	468	LYS	N-CA	-5.53	1.39	1.46
4	R	474	LEU	CA-C	-5.53	1.45	1.52
4	R	484	ASP	CA-CB	5.53	1.61	1.53
4	F	143	GLN	CA-CB	5.52	1.63	1.53
5	M	412	VAL	N-CA	-5.52	1.39	1.46
2	O	485	LEU	N-CA	-5.52	1.39	1.46
5	S	412	VAL	N-CA	-5.52	1.39	1.46
4	F	484	ASP	CA-CB	5.51	1.61	1.53
4	L	474	LEU	CA-C	-5.51	1.45	1.52
4	R	366	THR	N-CA	-5.51	1.39	1.46
2	I	485	LEU	N-CA	-5.50	1.39	1.46
4	R	131	GLY	C-N	5.50	1.41	1.34
4	X	316	ASN	CA-C	-5.50	1.46	1.53
4	R	308	ILE	CA-C	-5.50	1.45	1.52
4	R	411	ARG	C-N	5.50	1.40	1.33
4	L	308	ILE	CA-C	-5.50	1.45	1.52
4	X	308	ILE	CA-C	-5.49	1.45	1.52
4	R	467	LEU	N-CA	-5.49	1.39	1.46
6	T	381	LYS	CA-C	-5.49	1.45	1.52
6	T	380	GLU	N-CA	-5.48	1.39	1.46
4	L	366	THR	N-CA	-5.48	1.39	1.46
4	X	366	THR	N-CA	-5.47	1.39	1.46
5	Y	412	VAL	N-CA	-5.47	1.39	1.46
4	X	348	GLN	N-CA	-5.47	1.39	1.46
4	F	411	ARG	C-N	5.46	1.40	1.33
3	P	1450	GLU	CA-C	-5.46	1.45	1.52
4	R	348	GLN	N-CA	-5.46	1.39	1.46
4	F	366	THR	N-CA	-5.46	1.39	1.46
4	F	348	GLN	N-CA	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	412	VAL	N-CA	-5.46	1.39	1.46
4	F	474	LEU	CA-C	-5.45	1.45	1.52
5	M	256	GLU	C-N	5.45	1.41	1.33
4	L	348	GLN	N-CA	-5.44	1.39	1.46
4	X	131	GLY	C-N	5.44	1.41	1.34
5	G	253	GLN	CA-CB	-5.44	1.44	1.53
4	R	206	GLN	CA-C	5.44	1.60	1.52
2	U	4	GLU	CA-CB	5.44	1.61	1.54
4	L	206	GLN	CA-C	5.43	1.60	1.52
4	X	411	ARG	C-N	5.43	1.40	1.33
3	D	1450	GLU	CA-C	-5.43	1.45	1.52
5	M	253	GLN	CA-CB	-5.43	1.44	1.53
4	R	307	ILE	CA-C	5.43	1.59	1.52
3	P	1533	ASP	N-CA	-5.43	1.39	1.46
4	X	480	ILE	CA-C	-5.43	1.45	1.52
4	L	244	VAL	CA-CB	-5.43	1.47	1.54
2	C	234	LEU	N-CA	-5.42	1.35	1.46
5	S	253	GLN	CA-CB	-5.42	1.44	1.53
5	Y	253	GLN	CA-CB	-5.42	1.44	1.53
4	F	300	PRO	N-CA	5.42	1.57	1.46
4	R	480	ILE	CA-C	-5.41	1.45	1.52
2	O	234	LEU	N-CA	-5.41	1.35	1.46
4	R	244	VAL	CA-CB	-5.41	1.47	1.54
4	F	131	GLY	C-N	5.41	1.41	1.34
4	F	307	ILE	CA-C	5.41	1.59	1.52
4	F	480	ILE	CA-C	-5.41	1.45	1.52
4	R	300	PRO	N-CA	5.41	1.57	1.46
4	X	364	ASN	CA-C	-5.41	1.45	1.52
4	X	206	GLN	CA-C	5.41	1.60	1.52
2	O	4	GLU	CA-CB	5.40	1.61	1.54
2	U	234	LEU	N-CA	-5.40	1.35	1.46
3	D	1533	ASP	N-CA	-5.40	1.39	1.46
4	L	467	LEU	N-CA	-5.40	1.39	1.46
4	X	300	PRO	N-CA	5.40	1.57	1.46
4	X	307	ILE	CA-C	5.39	1.59	1.52
2	I	234	LEU	N-CA	-5.39	1.36	1.46
4	R	364	ASN	CA-C	-5.39	1.45	1.52
3	D	1542	PRO	C-O	-5.39	1.17	1.24
4	F	467	LEU	N-CA	-5.39	1.39	1.46
4	L	411	ARG	C-N	5.39	1.40	1.33
4	X	467	LEU	N-CA	-5.39	1.39	1.46
4	F	364	ASN	CA-C	-5.39	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	409	GLN	CA-C	-5.38	1.45	1.52
4	L	300	PRO	N-CA	5.38	1.57	1.46
4	R	210	VAL	N-CA	5.38	1.52	1.46
4	L	364	ASN	CA-C	-5.38	1.45	1.52
4	F	329	GLY	C-N	5.38	1.41	1.33
4	L	307	ILE	CA-C	5.37	1.59	1.52
4	L	417	ILE	CA-CB	-5.37	1.47	1.54
5	Y	256	GLU	C-N	5.36	1.41	1.33
4	F	206	GLN	CA-C	5.36	1.59	1.52
2	I	4	GLU	CA-CB	5.36	1.61	1.54
4	R	409	GLN	CA-C	-5.35	1.45	1.52
4	X	210	VAL	N-CA	5.35	1.52	1.46
4	X	244	VAL	CA-CB	-5.35	1.47	1.54
6	T	376	HIS	CA-C	-5.34	1.45	1.52
2	C	4	GLU	CA-CB	5.34	1.61	1.54
2	I	2	ASP	N-CA	-5.34	1.39	1.46
4	X	409	GLN	CA-C	-5.34	1.46	1.52
4	L	409	GLN	CA-C	-5.33	1.46	1.52
6	N	419	GLY	CA-C	-5.33	1.45	1.51
6	H	419	GLY	CA-C	-5.32	1.45	1.51
4	L	329	GLY	C-N	5.31	1.41	1.33
3	P	1542	PRO	C-O	-5.31	1.17	1.24
4	L	480	ILE	CA-C	-5.31	1.46	1.52
4	L	210	VAL	N-CA	5.31	1.52	1.46
5	M	312	LYS	C-N	-5.31	1.27	1.33
3	P	1486	CYS	N-CA	-5.31	1.40	1.46
5	G	256	GLU	C-N	5.30	1.41	1.33
2	I	233	VAL	N-CA	-5.30	1.39	1.46
4	L	438	ILE	N-CA	-5.30	1.40	1.46
4	F	210	VAL	N-CA	5.30	1.52	1.46
4	F	244	VAL	CA-CB	-5.30	1.47	1.54
2	U	2	ASP	N-CA	-5.30	1.40	1.46
7	J	413	ASP	CA-C	-5.30	1.48	1.53
2	C	233	VAL	N-CA	-5.29	1.39	1.46
2	C	2	ASP	N-CA	-5.29	1.40	1.46
6	H	387	LYS	C-N	-5.29	1.26	1.33
4	L	414	LEU	N-CA	-5.29	1.40	1.46
4	R	414	LEU	N-CA	-5.29	1.40	1.46
6	Z	419	GLY	CA-C	-5.29	1.45	1.51
5	G	312	LYS	C-N	-5.28	1.27	1.33
6	N	387	LYS	C-N	-5.28	1.26	1.33
4	F	407	GLU	CA-C	-5.28	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	S	256	GLU	C-N	5.28	1.41	1.33
4	F	417	ILE	CA-CB	-5.28	1.47	1.54
4	R	407	GLU	CA-C	-5.28	1.46	1.52
4	X	417	ILE	CA-CB	-5.28	1.47	1.54
6	N	453	ASP	C-N	5.27	1.40	1.33
3	D	1486	CYS	N-CA	-5.27	1.40	1.46
4	R	329	GLY	C-N	5.27	1.41	1.33
7	V	413	ASP	CA-C	-5.27	1.48	1.53
3	D	1506	VAL	C-N	-5.26	1.26	1.33
4	L	204	SER	CA-CB	5.26	1.62	1.53
5	S	397	VAL	C-N	5.26	1.41	1.33
2	O	2	ASP	N-CA	-5.26	1.40	1.46
4	F	438	ILE	N-CA	-5.26	1.40	1.46
4	X	411	ARG	CA-CB	5.25	1.61	1.53
6	H	376	HIS	CA-C	-5.25	1.46	1.52
5	S	312	LYS	C-N	-5.25	1.27	1.33
4	X	407	GLU	CA-C	-5.25	1.46	1.52
2	O	252	MET	CA-C	-5.25	1.45	1.52
4	X	204	SER	CA-CB	5.25	1.62	1.53
5	Y	312	LYS	C-N	-5.25	1.27	1.33
3	D	1505	SER	N-CA	-5.25	1.40	1.46
4	L	411	ARG	CA-CB	5.24	1.61	1.53
6	T	419	GLY	CA-C	-5.24	1.45	1.51
4	F	204	SER	CA-CB	5.24	1.62	1.53
4	L	407	GLU	CA-C	-5.24	1.46	1.52
2	U	8	GLU	CA-CB	-5.24	1.44	1.53
3	P	1452	LEU	CA-C	-5.24	1.46	1.52
4	R	204	SER	CA-CB	5.24	1.62	1.53
4	R	440	MET	CA-C	5.23	1.59	1.52
6	Z	376	HIS	CA-C	-5.23	1.46	1.52
6	N	376	HIS	CA-C	-5.23	1.46	1.52
4	F	211	GLU	N-CA	-5.23	1.39	1.46
3	P	1506	VAL	C-N	-5.23	1.26	1.33
2	C	252	MET	CA-C	-5.23	1.45	1.52
5	G	397	VAL	C-N	5.23	1.41	1.33
6	T	387	LYS	C-N	-5.22	1.26	1.33
4	X	329	GLY	C-N	5.22	1.41	1.33
2	I	252	MET	CA-C	-5.22	1.45	1.52
2	O	233	VAL	N-CA	-5.22	1.39	1.46
4	X	447	VAL	N-CA	-5.22	1.40	1.46
3	P	1505	SER	N-CA	-5.22	1.40	1.46
4	X	349	THR	CA-CB	5.22	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	8	GLU	CA-CB	-5.21	1.44	1.53
4	R	467	LEU	C-N	5.21	1.40	1.33
2	U	233	VAL	N-CA	-5.21	1.39	1.46
4	F	440	MET	CA-C	5.21	1.59	1.52
6	H	380	GLU	N-CA	-5.21	1.39	1.46
4	L	447	VAL	N-CA	-5.21	1.40	1.46
5	M	334	GLY	N-CA	-5.21	1.39	1.45
5	G	260	LYS	CA-C	5.21	1.59	1.52
3	D	1452	LEU	CA-C	-5.20	1.46	1.52
4	R	417	ILE	CA-CB	-5.20	1.48	1.54
5	Y	397	VAL	C-N	5.20	1.41	1.33
6	Z	349	ARG	CA-CB	5.20	1.61	1.53
6	Z	453	ASP	C-N	5.20	1.40	1.33
5	M	397	VAL	C-N	5.20	1.41	1.33
6	H	453	ASP	C-N	5.20	1.40	1.33
4	L	211	GLU	N-CA	-5.20	1.39	1.46
4	L	349	THR	CA-CB	5.20	1.61	1.53
4	X	438	ILE	N-CA	-5.20	1.40	1.46
6	Z	387	LYS	C-N	-5.20	1.26	1.33
6	N	470	PRO	N-CA	-5.20	1.40	1.47
4	R	438	ILE	N-CA	-5.20	1.40	1.46
5	S	260	LYS	CA-C	5.20	1.59	1.52
4	F	414	LEU	N-CA	-5.19	1.40	1.46
4	L	234	PRO	CA-CB	5.19	1.61	1.53
4	X	211	GLU	N-CA	-5.19	1.39	1.46
4	X	414	LEU	N-CA	-5.19	1.40	1.46
4	R	349	THR	CA-CB	5.19	1.61	1.53
2	U	252	MET	CA-C	-5.19	1.45	1.52
4	F	447	VAL	N-CA	-5.18	1.40	1.46
2	O	8	GLU	CA-CB	-5.18	1.45	1.53
4	R	341	ASP	CA-CB	-5.18	1.44	1.53
4	L	440	MET	CA-C	5.18	1.59	1.52
3	P	1477	LEU	N-CA	-5.18	1.39	1.46
4	X	440	MET	CA-C	5.18	1.59	1.52
4	R	399	SER	C-O	-5.17	1.17	1.24
4	R	234	PRO	CA-CB	5.17	1.61	1.53
6	Z	470	PRO	N-CA	-5.17	1.40	1.47
5	S	334	GLY	N-CA	-5.17	1.39	1.45
4	L	341	ASP	CA-CB	-5.17	1.44	1.53
5	M	353	PHE	N-CA	-5.17	1.39	1.46
5	G	272	ILE	CA-CB	-5.17	1.47	1.54
5	G	334	GLY	N-CA	-5.16	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	8	GLU	CA-CB	-5.16	1.45	1.53
5	M	260	LYS	CA-C	5.16	1.59	1.52
3	D	1502	ARG	CA-C	-5.16	1.46	1.52
5	M	330	LYS	N-CA	-5.16	1.40	1.46
3	P	1524	VAL	N-CA	-5.16	1.40	1.46
4	R	411	ARG	CA-CB	5.16	1.61	1.53
3	D	1524	VAL	N-CA	-5.16	1.40	1.46
4	F	341	ASP	CA-CB	-5.16	1.44	1.53
4	F	411	ARG	CA-CB	5.16	1.61	1.53
6	H	470	PRO	N-CA	-5.16	1.40	1.47
5	Y	260	LYS	CA-C	5.15	1.59	1.52
3	D	1477	LEU	N-CA	-5.15	1.39	1.46
6	T	349	ARG	CA-CB	5.15	1.61	1.53
5	Y	334	GLY	N-CA	-5.15	1.39	1.45
4	L	398	LYS	CA-C	-5.15	1.45	1.52
4	F	349	THR	CA-CB	5.14	1.61	1.53
3	P	1502	ARG	CA-C	-5.14	1.46	1.52
4	R	211	GLU	N-CA	-5.14	1.39	1.46
5	Y	353	PHE	N-CA	-5.14	1.39	1.46
5	S	272	ILE	CA-CB	-5.14	1.47	1.54
3	P	1661	ARG	C-N	5.13	1.40	1.33
4	X	341	ASP	CA-CB	-5.13	1.44	1.53
5	M	300	GLY	CA-C	-5.13	1.46	1.52
1	A	87	VAL	CA-CB	-5.12	1.50	1.54
5	Y	330	LYS	N-CA	-5.12	1.40	1.46
4	F	234	PRO	CA-CB	5.12	1.61	1.53
4	L	399	SER	C-O	-5.12	1.17	1.24
5	M	329	GLN	C-N	5.12	1.40	1.33
6	T	453	ASP	C-N	5.12	1.40	1.33
5	G	330	LYS	N-CA	-5.12	1.40	1.46
6	H	349	ARG	CA-CB	5.12	1.61	1.53
5	Y	411	LYS	N-CA	-5.12	1.40	1.46
4	X	234	PRO	CA-CB	5.12	1.61	1.53
3	P	1491	ILE	CA-C	5.12	1.59	1.52
4	R	447	VAL	N-CA	-5.12	1.40	1.46
4	R	398	LYS	CA-C	-5.11	1.45	1.52
5	S	411	LYS	N-CA	-5.11	1.40	1.46
1	K	87	VAL	CA-CB	-5.11	1.50	1.54
5	Y	329	GLN	C-N	5.11	1.40	1.33
3	D	1491	ILE	CA-C	5.11	1.59	1.52
4	F	399	SER	C-O	-5.11	1.17	1.24
3	D	1661	ARG	C-N	5.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L	467	LEU	C-N	5.10	1.40	1.33
5	S	353	PHE	N-CA	-5.10	1.39	1.46
4	F	467	LEU	C-N	5.10	1.40	1.33
4	F	490	LEU	C-N	-5.10	1.28	1.34
5	S	329	GLN	C-N	5.10	1.40	1.33
2	U	8	GLU	N-CA	-5.10	1.39	1.46
6	T	470	PRO	N-CA	-5.10	1.40	1.47
4	X	467	LEU	C-N	5.10	1.40	1.33
5	M	373	THR	N-CA	-5.09	1.40	1.46
4	X	398	LYS	CA-C	-5.09	1.45	1.52
5	M	411	LYS	N-CA	-5.08	1.40	1.46
3	D	1452	LEU	N-CA	-5.08	1.40	1.46
3	D	1540	LEU	N-CA	-5.08	1.40	1.46
4	F	369	VAL	N-CA	-5.08	1.40	1.46
5	Y	300	GLY	CA-C	-5.08	1.46	1.52
4	X	399	SER	C-O	-5.08	1.17	1.24
3	D	878	PRO	C-N	5.08	1.40	1.33
3	D	1472	SER	C-O	5.08	1.29	1.24
3	P	1506	VAL	C-O	5.08	1.30	1.24
6	Z	341	SER	CA-C	5.08	1.59	1.52
5	Y	272	ILE	CA-CB	-5.08	1.47	1.54
5	G	329	GLN	C-N	5.08	1.40	1.33
5	G	300	GLY	CA-C	-5.07	1.46	1.52
5	Y	253	GLN	N-CA	5.07	1.52	1.46
3	D	1506	VAL	C-O	5.07	1.30	1.24
4	R	490	LEU	C-N	-5.07	1.28	1.34
4	F	398	LYS	CA-C	-5.07	1.45	1.52
2	I	8	GLU	N-CA	-5.07	1.40	1.46
4	L	369	VAL	N-CA	-5.07	1.40	1.46
4	L	490	LEU	C-N	-5.07	1.28	1.34
6	N	341	SER	CA-C	5.07	1.59	1.52
6	N	349	ARG	CA-CB	5.07	1.61	1.53
2	O	8	GLU	N-CA	-5.07	1.40	1.46
5	S	330	LYS	N-CA	-5.07	1.40	1.46
5	G	411	LYS	N-CA	-5.06	1.40	1.46
5	S	341	ALA	C-N	5.06	1.40	1.34
3	D	676	VAL	CA-CB	-5.06	1.48	1.54
3	D	743	VAL	CA-C	-5.06	1.48	1.53
5	G	336	GLN	C-N	5.06	1.40	1.33
3	D	1541	THR	C-N	-5.06	1.22	1.33
2	C	8	GLU	N-CA	-5.05	1.40	1.46
6	N	358	VAL	N-CA	-5.05	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	Y	373	THR	N-CA	-5.05	1.40	1.46
2	I	250	VAL	C-N	5.05	1.40	1.33
3	P	1472	SER	C-O	5.05	1.29	1.24
1	W	87	VAL	CA-CB	-5.05	1.50	1.54
4	X	490	LEU	C-N	-5.05	1.28	1.34
1	E	87	VAL	CA-CB	-5.05	1.50	1.54
3	P	743	VAL	CA-C	-5.05	1.48	1.53
3	P	1541	THR	C-N	-5.05	1.22	1.33
6	T	358	VAL	N-CA	-5.04	1.39	1.46
2	C	250	VAL	C-N	5.04	1.40	1.33
4	F	462	GLU	N-CA	-5.04	1.40	1.46
6	T	341	SER	CA-C	5.04	1.59	1.52
1	B	87	VAL	CA-CB	-5.03	1.50	1.54
5	G	353	PHE	N-CA	-5.03	1.39	1.46
6	Z	358	VAL	N-CA	-5.03	1.39	1.46
6	H	358	VAL	N-CA	-5.03	1.39	1.46
1	Q	87	VAL	CA-CB	-5.03	1.50	1.54
6	H	341	SER	CA-C	5.02	1.59	1.52
5	M	336	GLN	C-N	5.02	1.39	1.33
3	P	1452	LEU	N-CA	-5.02	1.40	1.46
5	Y	341	ALA	C-N	5.02	1.40	1.34
5	G	373	THR	N-CA	-5.02	1.40	1.46
4	L	462	GLU	N-CA	-5.01	1.40	1.46
6	N	379	VAL	CA-C	5.01	1.58	1.52
6	Z	405	ASP	CA-C	5.01	1.59	1.52
5	M	272	ILE	CA-CB	-5.01	1.48	1.54
5	M	341	ALA	C-N	5.01	1.40	1.34
2	O	250	VAL	C-N	5.01	1.40	1.33
3	P	1540	LEU	N-CA	-5.01	1.40	1.46
5	S	253	GLN	N-CA	5.00	1.52	1.46
4	X	369	VAL	N-CA	-5.00	1.40	1.46
4	R	369	VAL	N-CA	-5.00	1.40	1.46

All (5879) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	341	ALA	CA-C-N	-52.59	63.45	119.19
5	Y	341	ALA	C-N-CA	-52.59	63.45	119.19
5	S	341	ALA	CA-C-N	-52.57	63.47	119.19
5	S	341	ALA	C-N-CA	-52.57	63.47	119.19
5	G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	G	341	ALA	C-N-CA	-52.52	63.52	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	M	341	ALA	C-N-CA	-52.48	63.56	119.19
3	D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	P	1488	GLY	C-N-CA	-46.29	47.42	123.33
5	M	340	ALA	N-CA-C	-45.76	30.81	107.23
5	G	340	ALA	N-CA-C	-45.75	30.82	107.23
5	S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	Y	340	ALA	N-CA-C	-45.72	30.88	107.23
6	Z	408	SER	CA-C-N	-41.66	67.77	119.84
6	Z	408	SER	C-N-CA	-41.66	67.77	119.84
6	N	408	SER	CA-C-N	-41.64	67.80	119.84
6	N	408	SER	C-N-CA	-41.64	67.80	119.84
6	T	408	SER	CA-C-N	-41.63	67.80	119.84
6	T	408	SER	C-N-CA	-41.63	67.80	119.84
3	D	1541	THR	CA-C-N	-41.63	67.81	119.84
3	D	1541	THR	C-N-CA	-41.63	67.81	119.84
3	P	1541	THR	CA-C-N	-41.62	67.82	119.84
3	P	1541	THR	C-N-CA	-41.62	67.82	119.84
6	H	408	SER	CA-C-N	-41.57	67.87	119.84
6	H	408	SER	C-N-CA	-41.57	67.87	119.84
4	R	454	TYR	CA-C-N	-38.10	53.40	121.97
4	R	454	TYR	C-N-CA	-38.10	53.40	121.97
4	F	454	TYR	CA-C-N	-38.08	53.44	121.97
4	F	454	TYR	C-N-CA	-38.08	53.44	121.97
4	L	454	TYR	CA-C-N	-38.07	53.45	121.97
4	L	454	TYR	C-N-CA	-38.07	53.45	121.97
4	X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	X	454	TYR	C-N-CA	-38.06	53.45	121.97
5	Y	340	ALA	CB-CA-C	34.91	157.15	111.42
5	M	340	ALA	CB-CA-C	34.90	157.14	111.42
5	G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	S	340	ALA	CB-CA-C	34.89	157.12	111.42
4	X	423	ALA	CA-C-N	-34.68	76.49	119.84
4	X	423	ALA	C-N-CA	-34.68	76.49	119.84
4	R	423	ALA	CA-C-N	-34.67	76.50	119.84
4	R	423	ALA	C-N-CA	-34.67	76.50	119.84
4	F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	L	423	ALA	C-N-CA	-34.66	76.51	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	462	GLU	CA-C-N	-34.48	59.90	121.97
4	R	462	GLU	C-N-CA	-34.48	59.90	121.97
4	L	462	GLU	CA-C-N	-34.48	59.91	121.97
4	L	462	GLU	C-N-CA	-34.48	59.91	121.97
4	F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	F	450	GLU	CA-C-O	33.03	167.74	120.51
4	X	450	GLU	CA-C-O	33.02	167.74	120.51
4	L	450	GLU	CA-C-O	32.99	167.69	120.51
4	R	450	GLU	CA-C-O	32.98	167.68	120.51
4	F	455	ILE	CA-C-N	-32.79	73.28	123.12
4	F	455	ILE	C-N-CA	-32.79	73.28	123.12
4	L	455	ILE	CA-C-N	-32.78	73.30	123.12
4	L	455	ILE	C-N-CA	-32.78	73.30	123.12
4	X	455	ILE	CA-C-N	-32.76	73.32	123.12
4	X	455	ILE	C-N-CA	-32.76	73.32	123.12
4	R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	R	455	ILE	C-N-CA	-32.71	73.39	123.12
5	G	379	HIS	CA-C-N	31.57	162.81	120.50
5	G	379	HIS	C-N-CA	31.57	162.81	120.50
5	S	338	GLU	CA-C-O	-31.50	69.00	120.65
5	M	338	GLU	CA-C-O	-31.47	69.04	120.65
5	Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	G	338	GLU	CA-C-O	-31.44	69.09	120.65
3	P	1491	ILE	N-CA-C	31.43	140.59	110.42
3	D	1491	ILE	N-CA-C	31.42	140.59	110.42
5	Y	379	HIS	CA-C-N	30.13	162.79	120.91
5	Y	379	HIS	C-N-CA	30.13	162.79	120.91
5	M	379	HIS	CA-C-N	30.13	162.79	120.91
5	M	379	HIS	C-N-CA	30.13	162.79	120.91
5	S	379	HIS	CA-C-N	30.11	162.76	120.91
5	S	379	HIS	C-N-CA	30.11	162.76	120.91
3	D	1508	LYS	CA-C-N	-29.85	77.91	120.29
3	D	1508	LYS	C-N-CA	-29.85	77.91	120.29
3	P	1508	LYS	CA-C-N	-29.85	77.91	120.29
3	P	1508	LYS	C-N-CA	-29.85	77.91	120.29
4	R	453	TYR	O-C-N	-28.02	85.33	122.59
4	L	453	TYR	O-C-N	-28.02	85.33	122.59
4	X	453	TYR	O-C-N	-28.01	85.33	122.59
4	F	453	TYR	O-C-N	-27.98	85.38	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	341	ALA	CA-C-O	-27.66	82.26	120.16
5	G	341	ALA	CA-C-O	-27.65	82.28	120.16
5	Y	341	ALA	CA-C-O	-27.64	82.30	120.16
5	M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	G	343	ALA	CB-CA-C	-27.47	55.76	110.42
5	M	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	S	343	ALA	CB-CA-C	-27.44	55.82	110.42
3	D	1543	GLN	CA-C-N	-26.92	92.66	120.38
3	D	1543	GLN	C-N-CA	-26.92	92.66	120.38
3	P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	P	1543	GLN	C-N-CA	-26.86	92.71	120.38
5	S	326	LEU	CA-C-O	-26.22	83.02	120.51
5	M	326	LEU	CA-C-O	-26.19	83.06	120.51
5	Y	326	LEU	CA-C-O	-26.18	83.07	120.51
5	G	326	LEU	CA-C-O	-26.18	83.08	120.51
4	L	449	SER	O-C-N	26.12	157.33	122.59
4	X	449	SER	O-C-N	26.11	157.32	122.59
4	F	449	SER	O-C-N	26.07	157.27	122.59
4	R	449	SER	O-C-N	26.05	157.23	122.59
4	X	450	GLU	N-CA-CB	25.99	154.41	110.49
4	F	450	GLU	N-CA-CB	25.99	154.41	110.49
4	L	450	GLU	N-CA-CB	25.97	154.38	110.49
4	R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	R	400	GLY	O-C-N	25.90	156.37	122.70
4	X	400	GLY	O-C-N	25.88	156.35	122.70
4	L	450	GLU	CA-C-N	-25.88	72.12	121.54
4	L	450	GLU	C-N-CA	-25.88	72.12	121.54
4	F	400	GLY	O-C-N	25.87	156.33	122.70
4	R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	L	400	GLY	O-C-N	25.85	156.31	122.70
4	F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	X	450	GLU	C-N-CA	-25.84	72.18	121.54
3	P	1544	PRO	N-CA-C	25.82	142.20	110.70
3	D	1544	PRO	N-CA-C	25.81	142.19	110.70
4	X	402	ALA	N-CA-C	-25.77	55.91	110.80
4	R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	F	402	ALA	N-CA-C	-25.73	55.99	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	455	ILE	CA-C-O	25.57	152.74	120.78
4	L	455	ILE	CA-C-O	25.55	152.72	120.78
4	X	455	ILE	CA-C-O	25.55	152.72	120.78
4	R	455	ILE	CA-C-O	25.50	152.66	120.78
4	L	453	TYR	CA-C-O	24.83	156.02	120.51
4	X	453	TYR	CA-C-O	24.83	156.02	120.51
4	F	453	TYR	CA-C-O	24.82	156.01	120.51
4	R	453	TYR	CA-C-O	24.81	155.99	120.51
3	D	1506	VAL	CA-C-N	-24.21	82.46	122.65
3	D	1506	VAL	C-N-CA	-24.21	82.46	122.65
3	P	1506	VAL	CA-C-N	-24.21	82.47	122.65
3	P	1506	VAL	C-N-CA	-24.21	82.47	122.65
3	P	1541	THR	CA-C-O	23.91	141.54	118.34
3	D	1541	THR	CA-C-O	23.91	141.53	118.34
3	P	1539	LEU	CA-C-N	-23.64	86.72	120.29
3	P	1539	LEU	C-N-CA	-23.64	86.72	120.29
3	D	1539	LEU	CA-C-N	-23.59	86.80	120.29
3	D	1539	LEU	C-N-CA	-23.59	86.80	120.29
6	Z	405	ASP	N-CA-C	-23.33	85.55	110.97
6	N	405	ASP	N-CA-C	-23.32	85.55	110.97
6	T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	H	405	ASP	N-CA-C	-23.28	85.60	110.97
3	P	1546	LEU	CA-C-N	-22.64	85.89	120.31
3	P	1546	LEU	C-N-CA	-22.64	85.89	120.31
3	D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	D	1546	LEU	C-N-CA	-22.61	85.94	120.31
4	R	487	ASP	N-CA-C	-22.39	85.06	112.38
4	L	399	SER	CA-C-N	-22.39	77.52	121.41
4	L	399	SER	C-N-CA	-22.39	77.52	121.41
4	F	487	ASP	N-CA-C	-22.39	85.07	112.38
4	X	487	ASP	N-CA-C	-22.38	85.07	112.38
4	X	399	SER	CA-C-N	-22.38	77.55	121.41
4	X	399	SER	C-N-CA	-22.38	77.55	121.41
4	F	399	SER	CA-C-N	-22.36	77.59	121.41
4	F	399	SER	C-N-CA	-22.36	77.59	121.41
4	L	487	ASP	N-CA-C	-22.35	85.11	112.38
4	R	399	SER	CA-C-N	-22.35	77.60	121.41
4	R	399	SER	C-N-CA	-22.35	77.60	121.41
5	M	340	ALA	O-C-N	-22.28	98.22	123.40
5	G	340	ALA	O-C-N	-22.23	98.28	123.40
5	Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	S	340	ALA	O-C-N	-22.16	98.35	123.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	338	GLU	O-C-N	21.64	154.52	121.63
5	S	338	GLU	O-C-N	21.62	154.50	121.63
5	G	338	GLU	O-C-N	21.58	154.43	121.63
5	Y	338	GLU	O-C-N	21.57	154.42	121.63
6	N	412	GLU	O-C-N	21.55	147.10	122.32
6	H	412	GLU	O-C-N	21.52	147.07	122.32
6	T	412	GLU	O-C-N	21.52	147.07	122.32
6	Z	412	GLU	O-C-N	21.52	147.06	122.32
1	K	276	ASP	O-C-N	21.51	157.42	123.00
1	A	276	ASP	O-C-N	21.51	157.42	123.00
1	E	276	ASP	O-C-N	21.50	157.40	123.00
1	Q	276	ASP	O-C-N	21.50	157.40	123.00
1	B	276	ASP	O-C-N	21.49	157.38	123.00
1	W	276	ASP	O-C-N	21.49	157.38	123.00
4	L	252	THR	CB-CA-C	-21.37	74.49	109.75
4	R	252	THR	CB-CA-C	-21.36	74.50	109.75
4	F	252	THR	CB-CA-C	-21.35	74.52	109.75
4	X	252	THR	CB-CA-C	-21.35	74.52	109.75
6	H	487	TRP	N-CA-C	21.32	134.52	111.28
6	Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	N	487	TRP	N-CA-C	21.27	134.46	111.28
6	T	487	TRP	N-CA-C	21.24	134.43	111.28
4	R	422	ASN	CA-C-N	-20.98	70.61	121.80
4	R	422	ASN	C-N-CA	-20.98	70.61	121.80
4	L	422	ASN	CA-C-N	-20.98	70.61	121.80
4	L	422	ASN	C-N-CA	-20.98	70.61	121.80
4	F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	R	460	LEU	CA-C-O	-20.90	96.79	120.20
4	F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	X	460	LEU	CA-C-O	-20.86	96.83	120.20
5	Y	328	THR	N-CA-CB	20.85	138.62	110.90
4	L	460	LEU	CA-C-O	-20.82	96.89	120.20
5	G	328	THR	N-CA-CB	20.81	138.58	110.90
5	S	328	THR	N-CA-CB	20.81	138.58	110.90
5	M	328	THR	N-CA-CB	20.80	138.56	110.90
4	R	454	TYR	N-CA-C	20.80	155.09	110.80
4	F	454	TYR	N-CA-C	20.79	155.09	110.80
4	X	454	TYR	N-CA-C	20.79	155.08	110.80
4	L	454	TYR	N-CA-C	20.77	155.05	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	1504	VAL	CA-C-N	-20.52	91.15	120.29
3	P	1504	VAL	C-N-CA	-20.52	91.15	120.29
3	D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	D	1504	VAL	C-N-CA	-20.52	91.16	120.29
5	M	331	THR	CA-C-O	20.17	137.91	118.34
5	Y	331	THR	CA-C-O	20.12	137.86	118.34
5	G	331	THR	CA-C-O	20.09	137.83	118.34
5	S	331	THR	CA-C-O	20.04	137.78	118.34
4	R	398	LYS	O-C-N	-20.03	92.74	122.39
4	F	398	LYS	O-C-N	-20.02	92.75	122.39
4	L	398	LYS	O-C-N	-20.02	92.76	122.39
3	D	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	D	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	P	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	X	398	LYS	O-C-N	-19.96	92.85	122.39
4	F	456	ASP	CB-CA-C	-19.49	81.52	111.73
4	L	456	ASP	CB-CA-C	-19.48	81.54	111.73
4	R	456	ASP	CB-CA-C	-19.47	81.55	111.73
4	X	456	ASP	CB-CA-C	-19.47	81.56	111.73
5	Y	320	LYS	N-CA-C	19.42	137.10	113.41
5	M	320	LYS	N-CA-C	19.41	137.09	113.41
5	S	320	LYS	N-CA-C	19.40	137.08	113.41
5	G	320	LYS	N-CA-C	19.38	137.05	113.41
4	L	448	ARG	O-C-N	-19.36	96.68	122.43
4	F	448	ARG	O-C-N	-19.35	96.69	122.43
4	L	456	ASP	CA-C-O	19.35	145.58	121.58
4	X	456	ASP	CA-C-O	19.35	145.58	121.58
4	R	456	ASP	CA-C-O	19.35	145.57	121.58
4	R	448	ARG	O-C-N	-19.35	96.70	122.43
4	F	456	ASP	CA-C-O	19.34	145.56	121.58
4	X	448	ARG	O-C-N	-19.31	96.74	122.43
4	R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	F	424	PRO	CA-C-N	-19.27	86.07	121.52
4	F	424	PRO	C-N-CA	-19.27	86.07	121.52
4	X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	L	424	PRO	C-N-CA	-19.25	86.10	121.52
5	M	342	PRO	O-C-N	19.16	148.14	122.27
5	G	342	PRO	O-C-N	19.13	148.09	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	342	PRO	O-C-N	19.10	148.06	122.27
5	S	342	PRO	O-C-N	19.09	148.04	122.27
4	L	452	ARG	CA-C-O	19.03	147.72	120.51
4	R	452	ARG	CA-C-O	19.02	147.71	120.51
4	F	452	ARG	CA-C-O	18.99	147.67	120.51
4	X	452	ARG	CA-C-O	18.99	147.66	120.51
6	Z	384	LEU	N-CA-C	-18.93	90.65	111.28
6	N	384	LEU	N-CA-C	-18.92	90.66	111.28
4	R	463	ILE	N-CA-CB	-18.92	80.01	111.23
4	L	463	ILE	N-CA-CB	-18.91	80.02	111.23
4	X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	F	463	ILE	N-CA-CB	-18.89	80.06	111.23
6	T	384	LEU	N-CA-C	-18.89	90.69	111.28
6	H	384	LEU	N-CA-C	-18.87	90.71	111.28
3	P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	D	1519	SER	C-N-CA	-18.86	84.44	121.41
5	M	340	ALA	N-CA-CB	18.83	141.49	110.79
5	Y	340	ALA	N-CA-CB	18.81	141.46	110.79
5	G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	S	340	ALA	N-CA-CB	18.74	141.34	110.79
4	L	293	ILE	CB-CA-C	-18.63	88.12	111.97
4	X	293	ILE	CB-CA-C	-18.61	88.15	111.97
4	F	293	ILE	CB-CA-C	-18.59	88.18	111.97
4	R	293	ILE	CB-CA-C	-18.58	88.18	111.97
5	M	339	TYR	CA-C-N	-18.50	93.23	121.72
5	M	339	TYR	C-N-CA	-18.50	93.23	121.72
5	Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	G	339	TYR	C-N-CA	-18.45	93.31	121.72
3	D	1509	GLN	CA-C-N	-18.33	82.60	121.64
3	D	1509	GLN	C-N-CA	-18.33	82.60	121.64
6	H	411	GLU	O-C-N	-18.27	98.29	122.59
6	T	411	GLU	O-C-N	-18.25	98.32	122.59
4	X	448	ARG	CA-C-O	18.21	142.05	119.10
6	Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	N	411	GLU	O-C-N	-18.21	98.37	122.59
4	F	448	ARG	CA-C-O	18.20	142.03	119.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	448	ARG	CA-C-O	18.17	141.99	119.10
4	L	448	ARG	CA-C-O	18.16	141.98	119.10
6	N	366	ILE	N-CA-CB	18.14	131.77	110.55
3	P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	P	1509	GLN	C-N-CA	-18.13	82.65	121.80
6	H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	T	366	ILE	N-CA-CB	18.08	131.70	110.55
4	F	202	ILE	N-CA-C	18.04	127.38	110.42
4	L	202	ILE	N-CA-C	18.03	127.37	110.42
4	X	202	ILE	N-CA-C	17.98	127.32	110.42
4	R	202	ILE	N-CA-C	17.91	127.25	110.42
4	F	456	ASP	O-C-N	-17.87	103.70	122.64
4	L	456	ASP	O-C-N	-17.86	103.71	122.64
4	X	456	ASP	O-C-N	-17.83	103.74	122.64
5	G	343	ALA	O-C-N	-17.83	98.88	122.59
5	Y	343	ALA	O-C-N	-17.82	98.89	122.59
4	R	456	ASP	O-C-N	-17.82	103.75	122.64
5	M	343	ALA	O-C-N	-17.81	98.91	122.59
5	S	343	ALA	O-C-N	-17.79	98.93	122.59
5	S	326	LEU	O-C-N	17.68	146.11	122.59
5	M	326	LEU	O-C-N	17.62	146.03	122.59
5	G	326	LEU	O-C-N	17.62	146.02	122.59
5	Y	326	LEU	O-C-N	17.61	146.01	122.59
7	V	1473	LEU	CA-C-N	17.57	150.55	120.68
7	V	1473	LEU	C-N-CA	17.57	150.55	120.68
7	J	1473	LEU	CA-C-N	17.55	150.51	120.68
7	J	1473	LEU	C-N-CA	17.55	150.51	120.68
5	M	343	ALA	CA-C-O	17.53	145.58	120.51
6	N	490	GLN	CB-CA-C	-17.52	79.51	109.99
4	R	222	THR	CA-C-N	17.51	147.46	122.77
4	R	222	THR	C-N-CA	17.51	147.46	122.77
5	S	343	ALA	CA-C-O	17.51	145.55	120.51
4	L	222	THR	CA-C-N	17.51	147.46	122.77
4	L	222	THR	C-N-CA	17.51	147.46	122.77
6	Z	490	GLN	CB-CA-C	-17.51	79.53	109.99
6	H	490	GLN	CB-CA-C	-17.51	79.53	109.99
5	Y	343	ALA	CA-C-O	17.50	145.54	120.51
4	L	420	GLU	O-C-N	17.50	140.80	122.08
6	T	490	GLN	CB-CA-C	-17.49	79.55	109.99
5	G	343	ALA	CA-C-O	17.48	145.51	120.51
4	X	222	THR	CA-C-N	17.48	147.42	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	222	THR	C-N-CA	17.48	147.42	122.77
4	F	222	THR	CA-C-N	17.48	147.42	122.77
4	F	222	THR	C-N-CA	17.48	147.42	122.77
4	X	420	GLU	O-C-N	17.46	140.76	122.08
6	N	462	GLY	N-CA-C	17.46	132.75	112.50
4	F	420	GLU	O-C-N	17.45	140.76	122.08
5	M	313	ILE	N-CA-C	-17.45	93.66	110.42
6	H	494	LEU	CA-C-O	17.41	145.41	120.51
4	R	420	GLU	O-C-N	17.41	140.71	122.08
6	H	462	GLY	N-CA-C	17.41	132.69	112.50
5	S	313	ILE	N-CA-C	-17.40	93.71	110.42
5	Y	313	ILE	N-CA-C	-17.40	93.71	110.42
5	G	313	ILE	N-CA-C	-17.40	93.72	110.42
6	Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	T	462	GLY	N-CA-C	17.39	132.68	112.50
5	G	329	GLN	CA-C-O	-17.36	101.45	119.51
5	Y	329	GLN	CA-C-O	-17.36	101.46	119.51
6	T	494	LEU	CA-C-O	17.36	145.33	120.51
5	M	329	GLN	CA-C-O	-17.35	101.46	119.51
5	S	329	GLN	CA-C-O	-17.35	101.46	119.51
6	Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	N	494	LEU	CA-C-O	17.31	145.27	120.51
4	X	461	ARG	CB-CA-C	-17.20	76.19	110.42
4	R	461	ARG	CB-CA-C	-17.19	76.21	110.42
4	F	461	ARG	CB-CA-C	-17.18	76.22	110.42
4	L	461	ARG	CB-CA-C	-17.18	76.22	110.42
5	G	339	TYR	O-C-N	17.10	142.72	123.40
3	P	879	LEU	N-CA-C	17.09	129.60	111.14
5	Y	341	ALA	O-C-N	17.09	140.98	121.32
5	S	339	TYR	O-C-N	17.09	142.71	123.40
4	F	220	ASN	CA-C-O	-17.08	101.81	120.43
5	Y	339	TYR	O-C-N	17.07	142.69	123.40
3	D	879	LEU	N-CA-C	17.07	129.58	111.14
4	L	220	ASN	CA-C-O	-17.07	101.82	120.43
5	M	339	TYR	O-C-N	17.07	142.69	123.40
5	M	341	ALA	O-C-N	17.06	140.94	121.32
5	G	341	ALA	O-C-N	17.03	140.91	121.32
4	X	220	ASN	CA-C-O	-17.02	101.88	120.43
4	R	220	ASN	CA-C-O	-17.01	101.89	120.43
6	N	467	THR	CA-C-N	17.00	150.89	121.14
6	N	467	THR	C-N-CA	17.00	150.89	121.14
4	F	488	ILE	N-CA-C	16.99	126.73	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	341	ALA	O-C-N	16.98	140.85	121.32
6	T	467	THR	CA-C-N	16.97	150.84	121.14
6	T	467	THR	C-N-CA	16.97	150.84	121.14
6	H	467	THR	CA-C-N	16.97	150.83	121.14
6	H	467	THR	C-N-CA	16.97	150.83	121.14
4	R	433	GLU	N-CA-C	-16.97	92.14	111.82
4	X	433	GLU	N-CA-C	-16.96	92.15	111.82
5	S	333	PRO	N-CA-CB	16.95	121.05	103.25
4	F	454	TYR	N-CA-CB	-16.94	81.86	110.49
4	R	488	ILE	N-CA-C	16.94	126.69	110.42
4	L	433	GLU	N-CA-C	-16.94	92.17	111.82
4	F	433	GLU	N-CA-C	-16.93	92.18	111.82
4	L	488	ILE	N-CA-C	16.93	126.68	110.42
4	X	454	TYR	N-CA-CB	-16.93	81.88	110.49
4	L	454	TYR	N-CA-CB	-16.93	81.88	110.49
6	Z	467	THR	CA-C-N	16.93	150.76	121.14
6	Z	467	THR	C-N-CA	16.93	150.76	121.14
4	R	454	TYR	N-CA-CB	-16.92	81.90	110.49
5	Y	333	PRO	N-CA-CB	16.92	121.01	103.25
5	G	333	PRO	N-CA-CB	16.91	121.01	103.25
4	X	488	ILE	N-CA-C	16.91	126.65	110.42
5	M	333	PRO	N-CA-CB	16.86	120.96	103.25
3	P	1449	TRP	CA-C-O	16.85	144.61	120.51
3	D	1449	TRP	CA-C-O	16.82	144.56	120.51
6	N	446	ARG	CB-CA-C	16.80	137.63	110.92
6	T	446	ARG	CB-CA-C	16.77	137.58	110.92
6	H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	Z	446	ARG	CB-CA-C	16.74	137.53	110.92
3	P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	D	1513	LEU	CA-C-N	-16.59	96.74	120.29
3	D	1513	LEU	C-N-CA	-16.59	96.74	120.29
3	P	1513	LEU	CA-C-N	-16.59	96.74	120.29
3	P	1513	LEU	C-N-CA	-16.59	96.74	120.29
6	T	490	GLN	CA-C-N	-16.45	96.93	120.29
6	T	490	GLN	C-N-CA	-16.45	96.93	120.29
6	Z	490	GLN	CA-C-N	-16.44	96.94	120.29
6	Z	490	GLN	C-N-CA	-16.44	96.94	120.29
6	N	490	GLN	CA-C-N	-16.43	96.95	120.29
6	N	490	GLN	C-N-CA	-16.43	96.95	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	H	490	GLN	CA-C-N	-16.42	96.97	120.29
6	H	490	GLN	C-N-CA	-16.42	96.97	120.29
5	G	339	TYR	CA-C-O	-16.27	100.09	120.27
4	X	400	GLY	CA-C-N	-16.27	90.47	121.54
4	X	400	GLY	C-N-CA	-16.27	90.47	121.54
4	L	400	GLY	CA-C-N	-16.26	90.48	121.54
4	L	400	GLY	C-N-CA	-16.26	90.48	121.54
4	R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	F	400	GLY	C-N-CA	-16.25	90.51	121.54
5	S	339	TYR	CA-C-O	-16.21	100.17	120.27
3	P	1492	GLY	CA-C-N	16.21	142.58	120.38
3	P	1492	GLY	C-N-CA	16.21	142.58	120.38
3	D	1492	GLY	CA-C-N	16.20	142.57	120.38
3	D	1492	GLY	C-N-CA	16.20	142.57	120.38
5	M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	Y	339	TYR	CA-C-O	-16.19	100.19	120.27
3	D	1490	GLU	CA-C-N	-16.13	100.23	120.56
3	D	1490	GLU	C-N-CA	-16.13	100.23	120.56
3	P	1490	GLU	CA-C-N	-16.12	100.24	120.56
3	P	1490	GLU	C-N-CA	-16.12	100.24	120.56
4	L	487	ASP	O-C-N	-16.11	101.44	122.39
4	R	487	ASP	O-C-N	-16.11	101.45	122.39
4	X	459	LEU	N-CA-CB	16.10	137.71	110.49
4	X	487	ASP	O-C-N	-16.10	101.46	122.39
4	F	487	ASP	O-C-N	-16.09	101.48	122.39
4	R	459	LEU	N-CA-CB	16.08	137.66	110.49
4	L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	F	459	LEU	N-CA-CB	16.04	137.60	110.49
5	Y	393	TYR	N-CA-C	-15.96	93.09	112.89
3	D	1449	TRP	O-C-N	-15.94	101.39	122.59
5	S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	G	393	TYR	N-CA-C	-15.93	93.14	112.89
3	P	1506	VAL	CA-C-O	15.93	137.73	120.85
4	F	450	GLU	N-CA-C	-15.92	76.90	110.80
3	D	1506	VAL	CA-C-O	15.91	137.71	120.85
4	L	451	GLU	CA-C-O	15.91	143.26	120.51
4	X	451	GLU	CA-C-O	15.91	143.26	120.51
4	R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	X	450	GLU	N-CA-C	-15.90	76.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	451	GLU	CA-C-O	15.89	143.24	120.51
3	P	1449	TRP	O-C-N	-15.89	101.46	122.59
4	R	451	GLU	CA-C-O	15.89	143.23	120.51
5	M	393	TYR	N-CA-C	-15.88	93.20	112.89
6	Z	494	LEU	CA-C-N	-15.87	94.20	120.71
6	Z	494	LEU	C-N-CA	-15.87	94.20	120.71
6	H	494	LEU	CA-C-N	-15.86	94.22	120.71
6	H	494	LEU	C-N-CA	-15.86	94.22	120.71
4	R	220	ASN	O-C-N	15.86	141.19	123.27
6	N	494	LEU	CA-C-N	-15.85	94.24	120.71
6	N	494	LEU	C-N-CA	-15.85	94.24	120.71
6	T	494	LEU	CA-C-N	-15.85	94.24	120.71
6	T	494	LEU	C-N-CA	-15.85	94.24	120.71
4	F	220	ASN	O-C-N	15.84	141.17	123.27
4	X	455	ILE	N-CA-C	15.83	142.26	109.34
4	L	455	ILE	N-CA-C	15.82	142.25	109.34
5	S	326	LEU	CB-CA-C	-15.82	78.93	110.42
4	F	455	ILE	N-CA-C	15.82	142.24	109.34
4	R	455	ILE	N-CA-C	15.82	142.24	109.34
5	G	326	LEU	CB-CA-C	-15.81	78.95	110.42
5	M	326	LEU	CB-CA-C	-15.81	78.95	110.42
4	X	220	ASN	O-C-N	15.81	141.14	123.27
5	Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
4	L	220	ASN	O-C-N	15.79	141.12	123.27
4	R	464	LYS	CB-CA-C	-15.75	79.08	110.42
4	F	464	LYS	CB-CA-C	-15.72	79.13	110.42
4	L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	X	464	LYS	CB-CA-C	-15.72	79.14	110.42
3	D	1538	SER	CA-C-N	15.70	142.89	120.28
3	D	1538	SER	C-N-CA	15.70	142.89	120.28
4	L	466	HIS	CA-C-N	-15.65	95.56	120.60
4	L	466	HIS	C-N-CA	-15.65	95.56	120.60
4	R	466	HIS	CA-C-N	-15.64	95.58	120.60
4	R	466	HIS	C-N-CA	-15.64	95.58	120.60
4	F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	P	1538	SER	CA-C-N	15.61	142.76	120.28
3	P	1538	SER	C-N-CA	15.61	142.76	120.28
4	X	453	TYR	N-CA-C	-15.59	77.59	110.80
4	L	453	TYR	N-CA-C	-15.58	77.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	453	TYR	N-CA-C	-15.58	77.62	110.80
4	R	453	TYR	N-CA-C	-15.57	77.64	110.80
3	P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	P	1474	GLY	CA-C-N	-15.51	98.27	120.29
3	P	1474	GLY	C-N-CA	-15.51	98.27	120.29
4	L	448	ARG	N-CA-C	15.49	131.46	112.87
3	D	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	D	1474	GLY	C-N-CA	-15.49	98.29	120.29
4	F	448	ARG	N-CA-C	15.49	131.46	112.87
4	R	448	ARG	N-CA-C	15.48	131.45	112.87
3	D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	D	1473	TYR	C-N-CA	15.45	137.44	119.99
4	X	448	ARG	N-CA-C	15.43	131.39	112.87
4	X	487	ASP	CA-C-N	15.41	139.97	120.56
4	X	487	ASP	C-N-CA	15.41	139.97	120.56
4	R	487	ASP	CA-C-N	15.40	139.96	120.56
4	R	487	ASP	C-N-CA	15.40	139.96	120.56
4	L	487	ASP	CA-C-N	15.38	139.94	120.56
4	L	487	ASP	C-N-CA	15.38	139.94	120.56
4	F	487	ASP	CA-C-N	15.38	139.94	120.56
4	F	487	ASP	C-N-CA	15.38	139.94	120.56
5	Y	253	GLN	N-CA-C	-15.26	92.92	111.69
5	G	253	GLN	N-CA-C	-15.25	92.93	111.69
5	S	253	GLN	N-CA-C	-15.23	92.95	111.69
5	M	253	GLN	N-CA-C	-15.20	93.00	111.69
6	N	407	LEU	N-CA-C	-15.18	94.03	112.54
6	H	407	LEU	N-CA-C	-15.17	94.03	112.54
6	Z	407	LEU	N-CA-C	-15.16	94.05	112.54
6	T	407	LEU	N-CA-C	-15.15	94.06	112.54
4	R	311	GLN	N-CA-C	-15.14	93.07	111.69
4	X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	F	311	GLN	N-CA-C	-15.11	93.11	111.69
6	T	388	ARG	N-CA-C	15.10	127.45	111.14
4	L	311	GLN	N-CA-C	-15.09	93.13	111.69
6	H	388	ARG	N-CA-C	15.06	127.40	111.14
6	Z	388	ARG	N-CA-C	14.99	127.33	111.14
6	N	388	ARG	N-CA-C	14.98	127.32	111.14
5	Y	334	GLY	CA-C-N	14.97	150.14	121.54
5	Y	334	GLY	C-N-CA	14.97	150.14	121.54
5	G	334	GLY	CA-C-N	14.97	150.13	121.54
5	G	334	GLY	C-N-CA	14.97	150.13	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	334	GLY	CA-C-N	14.95	150.09	121.54
5	S	334	GLY	C-N-CA	14.95	150.09	121.54
5	M	334	GLY	CA-C-N	14.94	150.08	121.54
5	M	334	GLY	C-N-CA	14.94	150.08	121.54
3	P	1545	PRO	CA-C-N	14.94	141.79	120.28
3	P	1545	PRO	C-N-CA	14.94	141.79	120.28
5	Y	361	ARG	N-CA-C	-14.93	95.09	111.36
3	D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	D	1545	PRO	C-N-CA	14.92	141.76	120.28
4	F	458	ASP	CA-C-N	-14.91	93.06	121.54
4	F	458	ASP	C-N-CA	-14.91	93.06	121.54
4	R	458	ASP	CA-C-N	-14.91	93.07	121.54
4	R	458	ASP	C-N-CA	-14.91	93.07	121.54
4	X	458	ASP	CA-C-N	-14.90	93.07	121.54
4	X	458	ASP	C-N-CA	-14.90	93.07	121.54
4	L	401	TYR	O-C-N	-14.89	102.78	122.59
5	S	361	ARG	N-CA-C	-14.89	95.13	111.36
4	L	457	ALA	N-CA-CB	-14.88	85.35	110.49
4	L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	L	458	ASP	C-N-CA	-14.88	93.13	121.54
5	G	361	ARG	N-CA-C	-14.87	95.15	111.36
6	H	373	THR	N-CA-CB	14.87	131.53	109.98
4	R	401	TYR	O-C-N	-14.86	102.82	122.59
5	M	361	ARG	N-CA-C	-14.85	95.17	111.36
4	F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	L	402	ALA	CA-C-O	14.84	141.73	120.51
5	M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	M	347	ARG	C-N-CA	-14.84	99.35	120.42
3	P	1484	ASP	O-C-N	14.84	137.85	122.12
4	R	457	ALA	N-CA-CB	-14.84	85.41	110.49
5	S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	S	347	ARG	C-N-CA	-14.83	99.36	120.42
3	D	1484	ASP	O-C-N	14.83	137.84	122.12
6	T	373	THR	N-CA-CB	14.83	131.48	109.98
5	G	347	ARG	CA-C-N	-14.82	99.37	120.42
5	G	347	ARG	C-N-CA	-14.82	99.37	120.42
6	N	373	THR	N-CA-CB	14.82	131.46	109.98
5	Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	Z	373	THR	N-CA-CB	14.81	131.46	109.98
4	X	402	ALA	CA-C-O	14.81	141.69	120.51
4	X	457	ALA	N-CA-CB	-14.81	85.47	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	401	TYR	O-C-N	-14.80	102.91	122.59
4	X	401	TYR	O-C-N	-14.80	102.91	122.59
4	R	402	ALA	CA-C-O	14.77	141.63	120.51
4	F	402	ALA	CA-C-O	14.76	141.62	120.51
3	P	1512	TRP	CA-C-O	-14.70	104.84	120.42
5	S	327	ARG	N-CA-CB	14.67	135.28	110.49
5	M	327	ARG	N-CA-CB	14.66	135.26	110.49
3	D	1512	TRP	CA-C-O	-14.65	104.89	120.42
5	G	327	ARG	N-CA-CB	14.65	135.25	110.49
5	Y	327	ARG	N-CA-CB	14.64	135.23	110.49
4	L	235	ASP	CA-C-O	-14.63	104.98	121.07
3	P	1511	GLN	CA-C-N	-14.63	99.52	120.29
3	P	1511	GLN	C-N-CA	-14.63	99.52	120.29
4	L	460	LEU	N-CA-CB	14.62	133.25	110.14
4	R	423	ALA	O-C-N	14.62	138.13	121.32
3	D	1511	GLN	CA-C-N	-14.62	99.53	120.29
3	D	1511	GLN	C-N-CA	-14.62	99.53	120.29
4	X	235	ASP	CA-C-O	-14.62	104.99	121.07
4	X	460	LEU	N-CA-CB	14.61	133.22	110.14
6	T	387	LYS	CA-C-N	-14.60	100.59	120.44
6	T	387	LYS	C-N-CA	-14.60	100.59	120.44
4	R	460	LEU	N-CA-CB	14.60	133.20	110.14
6	H	341	SER	N-CA-CB	14.59	131.68	109.94
6	Z	341	SER	N-CA-CB	14.59	131.68	109.94
4	F	460	LEU	N-CA-CB	14.58	133.17	110.14
6	N	387	LYS	CA-C-N	-14.57	100.62	120.44
6	N	387	LYS	C-N-CA	-14.57	100.62	120.44
6	N	341	SER	N-CA-CB	14.57	131.65	109.94
4	X	423	ALA	O-C-N	14.56	138.06	121.32
4	F	235	ASP	CA-C-O	-14.55	105.06	121.07
6	T	341	SER	N-CA-CB	14.55	131.62	109.94
3	D	1510	GLN	N-CA-C	14.54	132.67	112.45
6	H	387	LYS	CA-C-N	-14.54	100.67	120.44
6	H	387	LYS	C-N-CA	-14.54	100.67	120.44
4	L	423	ALA	O-C-N	14.52	138.01	121.32
4	R	235	ASP	CA-C-O	-14.51	105.11	121.07
6	Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	Z	387	LYS	C-N-CA	-14.49	100.73	120.44
4	F	423	ALA	O-C-N	14.49	137.98	121.32
5	S	330	LYS	N-CA-CB	14.49	135.65	110.44
5	Y	330	LYS	N-CA-CB	14.49	135.65	110.44
5	G	330	LYS	N-CA-CB	14.47	135.62	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	419	GLY	N-CA-C	-14.46	97.39	115.31
4	X	419	GLY	N-CA-C	-14.46	97.38	115.31
4	L	269	ASN	N-CA-C	-14.44	95.54	111.14
5	M	330	LYS	N-CA-CB	14.44	135.56	110.44
4	R	431	LEU	CA-C-N	-14.43	99.57	122.65
4	R	431	LEU	C-N-CA	-14.43	99.57	122.65
4	F	269	ASN	N-CA-C	-14.42	95.56	111.14
4	R	443	HIS	CA-C-O	14.42	141.13	120.51
4	L	431	LEU	CA-C-N	-14.42	99.58	122.65
4	L	431	LEU	C-N-CA	-14.42	99.58	122.65
4	F	431	LEU	CA-C-N	-14.42	99.58	122.65
4	F	431	LEU	C-N-CA	-14.42	99.58	122.65
4	R	419	GLY	N-CA-C	-14.41	97.44	115.31
4	F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	X	443	HIS	CA-C-O	14.40	141.10	120.51
4	X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	F	443	HIS	CA-C-O	14.38	141.08	120.51
4	X	269	ASN	N-CA-C	-14.38	95.61	111.14
4	L	443	HIS	CA-C-O	14.38	141.07	120.51
3	D	400	LEU	CB-CA-C	-14.38	88.82	110.96
4	R	269	ASN	N-CA-C	-14.38	95.61	111.14
4	X	402	ALA	CB-CA-C	-14.37	81.82	110.42
4	F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	L	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	R	402	ALA	CB-CA-C	-14.34	81.88	110.42
3	P	1510	GLN	N-CA-C	14.34	132.69	112.04
4	X	472	GLU	N-CA-C	-14.33	95.74	111.36
3	P	400	LEU	CB-CA-C	-14.32	88.90	110.96
4	X	399	SER	CA-C-O	14.32	140.99	120.51
4	F	399	SER	CA-C-O	14.31	140.97	120.51
4	L	399	SER	CA-C-O	14.30	140.96	120.51
4	R	399	SER	CA-C-O	14.29	140.94	120.51
4	L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	R	472	GLU	N-CA-C	-14.26	95.82	111.36
3	D	878	PRO	CA-C-N	14.25	139.82	120.44
3	D	878	PRO	C-N-CA	14.25	139.82	120.44
4	F	472	GLU	N-CA-C	-14.24	95.83	111.36
3	P	878	PRO	CA-C-N	14.23	139.80	120.44
3	P	878	PRO	C-N-CA	14.23	139.80	120.44
4	R	400	GLY	CA-C-O	-14.21	95.84	120.57
4	X	400	GLY	CA-C-O	-14.20	95.86	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	400	GLY	CA-C-O	-14.20	95.86	120.57
4	F	400	GLY	CA-C-O	-14.19	95.88	120.57
2	O	481	ARG	N-CA-C	14.15	129.50	111.24
2	C	481	ARG	N-CA-C	14.13	129.47	111.24
2	U	481	ARG	N-CA-C	14.13	129.47	111.24
2	I	481	ARG	N-CA-C	14.12	129.46	111.24
2	O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	C	15	GLN	N-CA-C	-14.04	95.53	111.82
2	I	15	GLN	N-CA-C	-14.04	95.53	111.82
6	Z	405	ASP	CB-CA-C	-14.05	89.33	110.96
6	T	410	LEU	O-C-N	14.04	141.25	122.43
6	N	405	ASP	CB-CA-C	-14.04	89.34	110.96
3	P	1517	SER	CA-C-N	-14.03	101.28	120.79
3	P	1517	SER	C-N-CA	-14.03	101.28	120.79
3	D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	U	15	GLN	N-CA-C	-14.03	95.55	111.82
6	H	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	N	410	LEU	O-C-N	13.97	141.16	122.43
4	F	452	ARG	N-CA-CB	13.96	134.08	110.49
6	H	410	LEU	O-C-N	13.96	141.14	122.43
4	F	221	GLN	CA-C-O	-13.95	100.57	120.51
4	L	452	ARG	N-CA-CB	13.94	134.05	110.49
4	X	452	ARG	N-CA-CB	13.94	134.04	110.49
6	Z	410	LEU	O-C-N	13.94	141.10	122.43
4	X	221	GLN	CA-C-O	-13.93	100.59	120.51
4	R	452	ARG	N-CA-CB	13.93	134.03	110.49
4	L	221	GLN	CA-C-O	-13.92	100.60	120.51
4	R	221	GLN	CA-C-O	-13.92	100.60	120.51
5	S	264	GLU	N-CA-C	-13.89	96.14	111.28
5	M	264	GLU	N-CA-C	-13.88	96.15	111.28
5	Y	264	GLU	N-CA-C	-13.81	96.23	111.28
4	X	343	MET	N-CA-CB	13.78	130.56	110.16
4	L	486	GLU	N-CA-CB	13.78	130.52	110.13
4	R	343	MET	N-CA-CB	13.77	130.55	110.16
4	L	343	MET	N-CA-CB	13.77	130.54	110.16
5	G	264	GLU	N-CA-C	-13.77	96.27	111.28
4	X	486	GLU	N-CA-CB	13.76	130.49	110.13
4	F	343	MET	N-CA-CB	13.74	130.50	110.16
3	D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	D	1520	GLY	C-N-CA	-13.73	100.79	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	1482	GLY	N-CA-C	13.72	128.42	112.50
6	Z	493	ALA	CA-C-N	13.72	147.75	121.54
6	Z	493	ALA	C-N-CA	13.72	147.75	121.54
4	R	486	GLU	N-CA-CB	13.72	130.43	110.13
3	P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	P	1520	GLY	C-N-CA	-13.72	100.81	120.29
6	N	493	ALA	CA-C-N	13.71	147.73	121.54
6	N	493	ALA	C-N-CA	13.71	147.73	121.54
4	F	486	GLU	N-CA-CB	13.71	130.42	110.13
6	T	493	ALA	CA-C-N	13.70	147.71	121.54
6	T	493	ALA	C-N-CA	13.70	147.71	121.54
7	V	1482	GLY	N-CA-C	13.70	128.39	112.50
6	H	493	ALA	CA-C-N	13.69	147.69	121.54
6	H	493	ALA	C-N-CA	13.69	147.69	121.54
4	R	397	ARG	O-C-N	-13.69	106.54	122.15
6	Z	471	LEU	CA-C-O	13.66	134.90	120.42
4	L	397	ARG	O-C-N	-13.66	106.58	122.15
4	X	397	ARG	O-C-N	-13.65	106.59	122.15
5	Y	379	HIS	CA-C-O	-13.65	100.99	120.51
4	F	397	ARG	O-C-N	-13.64	106.60	122.15
6	N	471	LEU	CA-C-O	13.64	134.88	120.42
5	M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	S	379	HIS	CA-C-O	-13.63	101.03	120.51
5	G	379	HIS	CA-C-O	-13.62	101.03	120.51
6	H	471	LEU	CA-C-O	13.60	134.84	120.42
6	T	471	LEU	CA-C-O	13.59	134.83	120.42
4	X	484	ASP	O-C-N	13.57	136.05	122.07
2	O	11	GLN	CB-CA-C	13.56	131.85	110.96
3	P	1448	MET	CA-C-O	-13.56	106.17	120.55
2	C	11	GLN	CB-CA-C	13.55	131.82	110.96
2	I	11	GLN	CB-CA-C	13.54	131.81	110.96
5	S	328	THR	N-CA-C	-13.54	96.85	114.31
5	Y	328	THR	N-CA-C	-13.53	96.85	114.31
3	D	1448	MET	CA-C-O	-13.53	106.21	120.55
5	G	328	THR	N-CA-C	-13.53	96.86	114.31
2	U	11	GLN	CB-CA-C	13.52	131.78	110.96
4	R	484	ASP	O-C-N	13.52	135.99	122.07
4	L	484	ASP	O-C-N	13.51	135.98	122.07
4	F	484	ASP	O-C-N	13.49	135.97	122.07
5	G	330	LYS	CA-C-N	13.49	136.95	120.09
5	G	330	LYS	C-N-CA	13.49	136.95	120.09
5	S	330	LYS	CA-C-N	13.49	136.95	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	330	LYS	C-N-CA	13.49	136.95	120.09
5	M	328	THR	N-CA-C	-13.48	96.92	114.31
4	L	450	GLU	O-C-N	13.45	140.48	122.59
5	Y	330	LYS	CA-C-N	13.45	136.91	120.09
5	Y	330	LYS	C-N-CA	13.45	136.91	120.09
5	M	330	LYS	CA-C-N	13.45	136.90	120.09
5	M	330	LYS	C-N-CA	13.45	136.90	120.09
4	F	450	GLU	O-C-N	13.44	140.47	122.59
6	Z	411	GLU	CA-C-O	-13.43	101.30	120.51
3	P	1488	GLY	CA-C-O	13.43	135.07	120.30
3	D	1507	ASP	CA-C-O	-13.42	103.08	119.59
4	R	450	GLU	O-C-N	13.42	140.44	122.59
4	X	450	GLU	O-C-N	13.42	140.43	122.59
6	T	411	GLU	CA-C-O	-13.41	101.33	120.51
6	N	411	GLU	CA-C-O	-13.41	101.33	120.51
3	P	1507	ASP	CA-C-O	-13.41	103.09	119.59
3	D	1488	GLY	CA-C-O	13.40	135.04	120.30
6	H	411	GLU	CA-C-O	-13.39	101.36	120.51
5	G	352	GLN	N-CA-C	13.38	125.86	111.28
4	F	235	ASP	CA-C-N	13.35	149.00	122.31
4	F	235	ASP	C-N-CA	13.35	149.00	122.31
5	M	352	GLN	N-CA-C	13.34	125.82	111.28
4	X	235	ASP	CA-C-N	13.33	148.96	122.31
4	X	235	ASP	C-N-CA	13.33	148.96	122.31
5	Y	337	HIS	O-C-N	-13.32	108.23	123.42
5	S	352	GLN	N-CA-C	13.32	125.80	111.28
4	R	235	ASP	CA-C-N	13.32	148.94	122.31
4	R	235	ASP	C-N-CA	13.32	148.94	122.31
5	Y	352	GLN	N-CA-C	13.32	125.80	111.28
4	L	235	ASP	CA-C-N	13.30	148.92	122.31
4	L	235	ASP	C-N-CA	13.30	148.92	122.31
5	S	337	HIS	O-C-N	-13.30	108.26	123.42
3	P	1484	ASP	CA-C-O	-13.29	106.46	120.55
3	D	1484	ASP	CA-C-O	-13.29	106.46	120.55
5	G	337	HIS	O-C-N	-13.29	108.28	123.42
5	M	337	HIS	O-C-N	-13.28	108.28	123.42
3	P	241	LEU	N-CA-C	13.26	125.75	111.03
3	D	241	LEU	N-CA-C	13.25	125.73	111.03
6	H	411	GLU	CA-C-N	13.16	145.90	121.81
6	H	411	GLU	C-N-CA	13.16	145.90	121.81
6	N	411	GLU	CA-C-N	13.16	145.90	121.81
6	N	411	GLU	C-N-CA	13.16	145.90	121.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	411	GLU	CA-C-N	13.15	145.88	121.81
6	T	411	GLU	C-N-CA	13.15	145.88	121.81
4	L	427	PHE	CA-C-N	-13.15	101.62	120.29
4	L	427	PHE	C-N-CA	-13.15	101.62	120.29
3	P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	D	1486	CYS	CA-C-N	-13.14	96.44	121.54
3	D	1486	CYS	C-N-CA	-13.14	96.44	121.54
4	F	427	PHE	CA-C-N	-13.13	101.64	120.29
4	F	427	PHE	C-N-CA	-13.13	101.64	120.29
6	Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	Z	411	GLU	C-N-CA	13.13	145.84	121.81
6	H	391	GLN	CA-C-N	13.13	137.87	120.28
6	H	391	GLN	C-N-CA	13.13	137.87	120.28
6	N	391	GLN	CA-C-N	13.13	137.87	120.28
6	N	391	GLN	C-N-CA	13.13	137.87	120.28
4	X	208	GLN	N-CA-CB	13.12	129.57	110.16
4	L	208	GLN	N-CA-CB	13.12	129.57	110.16
4	R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	X	367	THR	N-CA-C	-13.10	96.65	112.89
4	X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	L	367	THR	N-CA-C	-13.09	96.66	112.89
4	F	367	THR	N-CA-C	-13.08	96.67	112.89
4	L	436	SER	CA-C-O	13.08	136.32	121.02
6	T	391	GLN	CA-C-N	13.07	137.79	120.28
6	T	391	GLN	C-N-CA	13.07	137.79	120.28
4	R	367	THR	N-CA-C	-13.05	96.71	112.89
4	F	436	SER	CA-C-O	13.05	136.28	121.02
4	R	208	GLN	N-CA-CB	13.04	129.46	110.16
6	Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	Z	391	GLN	C-N-CA	13.04	137.75	120.28
4	F	208	GLN	N-CA-CB	13.03	129.45	110.16
4	X	436	SER	CA-C-O	13.02	136.25	121.02
4	R	436	SER	CA-C-O	12.99	136.22	121.02
4	L	456	ASP	CA-C-N	-12.98	96.75	121.54
4	L	456	ASP	C-N-CA	-12.98	96.75	121.54
4	X	305	ASP	CB-CA-C	12.97	130.42	109.41
4	F	456	ASP	CA-C-N	-12.96	96.78	121.54
4	F	456	ASP	C-N-CA	-12.96	96.78	121.54
4	R	456	ASP	CA-C-N	-12.95	96.80	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	456	ASP	C-N-CA	-12.95	96.80	121.54
4	X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	L	462	GLU	N-CA-CB	12.95	129.99	110.70
4	L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	F	462	GLU	N-CA-CB	12.93	129.97	110.70
5	G	379	HIS	O-C-N	-12.93	105.40	122.59
5	M	379	HIS	O-C-N	-12.93	105.40	122.59
6	Z	462	GLY	CA-C-O	-12.92	107.05	121.00
4	X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	Y	379	HIS	O-C-N	-12.91	105.42	122.59
5	S	379	HIS	O-C-N	-12.91	105.42	122.59
6	T	462	GLY	CA-C-O	-12.90	107.06	121.00
6	H	462	GLY	CA-C-O	-12.90	107.07	121.00
4	R	462	GLU	N-CA-CB	12.90	129.92	110.70
6	N	462	GLY	CA-C-O	-12.87	107.10	121.00
5	M	405	SER	CB-CA-C	12.86	131.37	110.92
5	G	405	SER	CB-CA-C	12.84	131.33	110.92
5	S	405	SER	CB-CA-C	12.84	131.33	110.92
5	Y	405	SER	CB-CA-C	12.81	131.29	110.92
4	F	200	THR	N-CA-C	12.71	126.37	111.11
4	F	221	GLN	CB-CA-C	-12.70	85.15	110.42
4	L	200	THR	N-CA-C	12.70	126.34	111.11
4	L	221	GLN	CB-CA-C	-12.69	85.16	110.42
4	R	320	GLU	CA-C-N	-12.69	96.55	121.94
4	R	320	GLU	C-N-CA	-12.69	96.55	121.94
4	X	221	GLN	CB-CA-C	-12.69	85.17	110.42
4	R	200	THR	N-CA-C	12.68	126.33	111.11
4	X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	R	221	GLN	CB-CA-C	-12.68	85.19	110.42
4	X	200	THR	N-CA-C	12.68	126.32	111.11
4	L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	X	210	VAL	CB-CA-C	12.65	129.19	112.24
4	R	210	VAL	CB-CA-C	12.63	129.17	112.24
4	F	210	VAL	CB-CA-C	12.60	129.13	112.24
4	L	210	VAL	CB-CA-C	12.58	129.10	112.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	330	LYS	O-C-N	-12.51	106.70	122.09
5	S	330	LYS	O-C-N	-12.51	106.70	122.09
5	S	330	LYS	N-CA-C	-12.51	96.71	112.72
5	Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	M	330	LYS	O-C-N	-12.48	106.73	122.09
5	Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	M	330	LYS	N-CA-C	-12.44	96.80	112.72
3	P	1531	GLU	CA-C-N	12.40	136.90	120.28
3	P	1531	GLU	C-N-CA	12.40	136.90	120.28
6	T	410	LEU	CA-C-O	-12.40	104.12	119.38
3	D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	D	1520	GLY	O-C-N	12.39	138.81	122.70
4	F	448	ARG	CB-CA-C	-12.39	83.08	110.21
3	P	1520	GLY	O-C-N	12.39	138.80	122.70
1	E	395	GLY	N-CA-C	-12.38	96.93	112.77
4	R	448	ARG	CB-CA-C	-12.38	83.11	110.21
4	L	448	ARG	CB-CA-C	-12.37	83.11	110.21
4	X	448	ARG	CB-CA-C	-12.37	83.11	110.21
1	A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	W	395	GLY	N-CA-C	-12.35	96.96	112.77
1	Q	395	GLY	N-CA-C	-12.34	96.97	112.77
1	B	395	GLY	N-CA-C	-12.34	96.97	112.77
6	H	410	LEU	CA-C-O	-12.34	104.20	119.38
6	Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	N	410	LEU	CA-C-O	-12.33	104.21	119.38
4	X	486	GLU	O-C-N	12.33	137.09	122.17
1	K	395	GLY	N-CA-C	-12.32	97.00	112.77
4	F	486	GLU	O-C-N	12.31	137.07	122.17
4	R	486	GLU	O-C-N	12.31	137.06	122.17
4	L	486	GLU	O-C-N	12.30	137.06	122.17
4	X	398	LYS	CA-C-N	-12.26	98.13	121.54
4	X	398	LYS	C-N-CA	-12.26	98.13	121.54
6	Z	340	TRP	CA-C-N	12.25	137.08	120.54
6	Z	340	TRP	C-N-CA	12.25	137.08	120.54
6	T	340	TRP	CA-C-N	12.24	137.07	120.54
6	T	340	TRP	C-N-CA	12.24	137.07	120.54
6	H	340	TRP	CA-C-N	12.24	137.06	120.54
6	H	340	TRP	C-N-CA	12.24	137.06	120.54
4	F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	F	398	LYS	C-N-CA	-12.23	98.19	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	398	LYS	CA-C-N	-12.22	98.19	121.54
4	R	398	LYS	C-N-CA	-12.22	98.19	121.54
2	U	6	PHE	CB-CA-C	12.22	132.00	110.01
2	C	6	PHE	CB-CA-C	12.21	131.99	110.01
2	I	6	PHE	CB-CA-C	12.21	131.98	110.01
6	N	356	THR	N-CA-CB	12.21	129.02	110.22
6	T	356	THR	N-CA-CB	12.20	129.01	110.22
6	H	356	THR	N-CA-CB	12.20	129.01	110.22
4	L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	L	398	LYS	C-N-CA	-12.20	98.24	121.54
2	O	6	PHE	CB-CA-C	12.20	131.97	110.01
6	Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	N	340	TRP	CA-C-N	12.17	136.97	120.54
6	N	340	TRP	C-N-CA	12.17	136.97	120.54
3	D	1519	SER	CA-C-O	12.16	137.90	120.51
3	P	1519	SER	CA-C-O	12.13	137.85	120.51
3	D	1510	GLN	CA-C-N	-12.12	100.07	120.68
3	D	1510	GLN	C-N-CA	-12.12	100.07	120.68
3	P	1510	GLN	CA-C-N	-12.10	100.10	120.68
3	P	1510	GLN	C-N-CA	-12.10	100.10	120.68
4	F	467	LEU	CA-C-O	-12.09	104.86	119.49
4	X	249	PRO	N-CA-CB	12.08	116.83	103.30
4	R	249	PRO	N-CA-CB	12.07	116.82	103.30
4	F	249	PRO	N-CA-CB	12.06	116.81	103.30
4	X	467	LEU	CA-C-O	-12.06	104.90	119.49
1	K	259	SER	O-C-N	-12.03	106.59	122.59
1	B	259	SER	O-C-N	-12.02	106.60	122.59
1	E	259	SER	O-C-N	-12.02	106.61	122.59
4	X	221	GLN	N-CA-C	12.01	136.38	110.80
1	W	259	SER	O-C-N	-12.00	106.62	122.59
4	L	221	GLN	N-CA-C	12.00	136.36	110.80
1	Q	259	SER	O-C-N	-12.00	106.63	122.59
4	F	423	ALA	N-CA-C	11.99	136.32	109.81
4	L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	L	249	PRO	N-CA-CB	11.99	116.73	103.30
1	A	259	SER	O-C-N	-11.98	106.65	122.59
4	L	423	ALA	N-CA-C	11.98	136.29	109.81
4	R	221	GLN	N-CA-C	11.98	136.32	110.80
4	R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	F	221	GLN	N-CA-C	11.96	136.28	110.80
2	U	15	GLN	CB-CA-C	-11.96	87.70	110.67
4	X	423	ALA	N-CA-C	11.96	136.25	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	452	ARG	CB-CA-C	-11.95	86.64	110.42
4	L	452	ARG	CB-CA-C	-11.94	86.65	110.42
2	O	15	GLN	CB-CA-C	-11.95	87.74	110.67
2	I	15	GLN	CB-CA-C	-11.94	87.75	110.67
4	R	423	ALA	N-CA-C	11.94	136.19	109.81
2	C	15	GLN	CB-CA-C	-11.94	87.75	110.67
4	R	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	R	457	ALA	CB-CA-C	11.91	134.12	110.42
6	H	352	LEU	N-CA-CB	11.90	127.67	109.94
4	X	457	ALA	CB-CA-C	11.90	134.10	110.42
4	L	457	ALA	CB-CA-C	11.89	134.08	110.42
6	N	487	TRP	O-C-N	11.87	134.70	122.12
6	N	352	LEU	N-CA-CB	11.86	127.61	109.94
6	T	352	LEU	N-CA-CB	11.85	127.60	109.94
4	L	462	GLU	CB-CA-C	-11.84	91.41	110.94
4	F	462	GLU	CB-CA-C	-11.83	91.42	110.94
6	Z	352	LEU	N-CA-CB	11.82	127.56	109.94
3	P	1511	GLN	O-C-N	11.82	138.17	122.33
6	T	487	TRP	O-C-N	11.81	134.64	122.12
4	R	328	VAL	CA-C-N	11.81	143.10	120.07
4	R	328	VAL	C-N-CA	11.81	143.10	120.07
4	R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	D	1511	GLN	O-C-N	11.79	138.13	122.33
6	T	390	ASP	N-CA-C	11.79	124.12	111.03
4	X	328	VAL	CA-C-N	11.79	143.06	120.07
4	X	328	VAL	C-N-CA	11.79	143.06	120.07
6	Z	487	TRP	O-C-N	11.79	134.62	122.12
4	F	328	VAL	CA-C-N	11.79	143.05	120.07
4	F	328	VAL	C-N-CA	11.79	143.05	120.07
4	L	328	VAL	CA-C-N	11.79	143.05	120.07
4	L	328	VAL	C-N-CA	11.79	143.05	120.07
3	P	1542	PRO	CA-C-O	-11.78	99.16	120.60
3	D	1542	PRO	CA-C-O	-11.78	99.17	120.60
4	X	462	GLU	CB-CA-C	-11.77	91.52	110.94
5	Y	393	TYR	CA-C-O	-11.77	104.71	119.31
4	F	305	ASP	CA-C-O	11.75	130.22	119.76
6	N	390	ASP	N-CA-C	11.75	124.07	111.03
5	S	332	PRO	CB-CA-C	11.75	125.25	110.92
5	Y	332	PRO	CB-CA-C	11.74	125.24	110.92
5	G	332	PRO	CB-CA-C	11.74	125.24	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	393	TYR	CA-C-O	-11.73	104.76	119.31
6	H	487	TRP	O-C-N	11.73	134.56	122.12
5	S	393	TYR	CA-C-O	-11.73	104.76	119.31
6	Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	H	390	ASP	N-CA-C	11.70	124.02	111.03
5	M	332	PRO	CB-CA-C	11.70	125.19	110.92
4	L	305	ASP	CA-C-O	11.69	130.16	119.76
4	R	305	ASP	CA-C-O	11.69	130.16	119.76
5	M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	M	406	ILE	CB-CA-C	-11.68	96.72	112.02
4	X	305	ASP	CA-C-O	11.66	130.14	119.76
4	L	427	PHE	O-C-N	11.65	134.07	122.07
3	P	1503	ILE	O-C-N	11.65	133.17	121.87
4	L	367	THR	CA-C-N	11.63	142.62	120.99
4	L	367	THR	C-N-CA	11.63	142.62	120.99
3	D	1503	ILE	O-C-N	11.63	133.15	121.87
4	R	367	THR	CA-C-N	11.63	142.61	120.99
4	R	367	THR	C-N-CA	11.63	142.61	120.99
5	G	406	ILE	CB-CA-C	-11.62	96.79	112.02
4	F	367	THR	CA-C-N	11.62	142.61	120.99
4	F	367	THR	C-N-CA	11.62	142.61	120.99
5	S	406	ILE	CB-CA-C	-11.61	96.81	112.02
4	X	367	THR	CA-C-N	11.61	142.57	120.99
4	X	367	THR	C-N-CA	11.61	142.57	120.99
3	D	1474	GLY	N-CA-C	11.60	126.67	112.64
3	P	1470	ILE	CA-C-O	-11.59	108.88	121.17
3	D	1470	ILE	CA-C-O	-11.59	108.89	121.17
4	F	427	PHE	O-C-N	11.58	134.00	122.07
4	R	427	PHE	O-C-N	11.58	134.00	122.07
5	Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
4	X	408	GLU	N-CA-C	11.54	124.98	111.71
4	L	426	GLN	O-C-N	11.53	135.29	122.15
4	R	408	GLU	N-CA-C	11.53	124.97	111.71
4	X	427	PHE	O-C-N	11.52	133.93	122.07
3	P	1474	GLY	N-CA-C	11.52	126.57	112.64
4	X	426	GLN	O-C-N	11.51	135.27	122.15
4	L	408	GLU	N-CA-C	11.50	124.94	111.71
4	F	408	GLU	N-CA-C	11.50	124.93	111.71
4	R	451	GLU	N-CA-C	11.48	135.26	110.80
4	L	451	GLU	N-CA-C	11.48	135.26	110.80
6	H	462	GLY	O-C-N	-11.46	111.18	122.18
4	F	426	GLN	O-C-N	11.46	135.21	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	462	GLY	O-C-N	-11.45	111.18	122.18
6	T	462	GLY	O-C-N	-11.45	111.19	122.18
4	F	451	GLU	N-CA-C	11.44	135.17	110.80
7	V	1387	SER	N-CA-C	-11.44	86.47	107.98
4	X	451	GLU	N-CA-C	11.44	135.17	110.80
4	F	199	GLU	CA-C-O	11.44	132.67	120.55
4	R	426	GLN	O-C-N	11.44	135.19	122.15
4	L	418	GLN	N-CA-C	11.43	123.72	111.03
4	R	457	ALA	CA-C-O	-11.43	104.16	120.51
6	Z	462	GLY	O-C-N	-11.43	111.21	122.18
4	X	457	ALA	CA-C-O	-11.42	104.17	120.51
4	R	199	GLU	CA-C-O	11.42	132.66	120.55
7	J	1387	SER	N-CA-C	-11.42	86.51	107.98
4	X	199	GLU	CA-C-O	11.42	132.66	120.55
4	L	457	ALA	CA-C-O	-11.42	104.19	120.51
4	F	418	GLN	N-CA-C	11.41	123.70	111.03
5	Y	330	LYS	CA-C-O	11.41	133.16	119.81
5	G	330	LYS	CA-C-O	11.40	133.15	119.81
4	R	418	GLN	N-CA-C	11.40	123.69	111.03
4	X	418	GLN	N-CA-C	11.40	123.69	111.03
4	R	395	ILE	O-C-N	-11.39	107.09	121.90
4	F	395	ILE	O-C-N	-11.39	107.10	121.90
4	F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	L	395	ILE	O-C-N	-11.38	107.10	121.90
4	X	395	ILE	O-C-N	-11.37	107.11	121.90
5	M	330	LYS	CA-C-O	11.36	133.10	119.81
5	S	330	LYS	CA-C-O	11.35	133.09	119.81
4	R	493	HIS	N-CA-C	11.34	142.76	111.00
4	X	493	HIS	N-CA-C	11.34	142.76	111.00
4	L	493	HIS	N-CA-C	11.34	142.76	111.00
4	L	199	GLU	CA-C-O	11.34	132.57	120.55
4	F	493	HIS	N-CA-C	11.34	142.75	111.00
5	S	324	ILE	O-C-N	11.34	136.91	122.05
5	G	324	ILE	O-C-N	11.31	136.86	122.05
5	Y	324	ILE	O-C-N	11.29	136.84	122.05
5	M	324	ILE	O-C-N	11.29	136.84	122.05
6	H	409	PRO	N-CA-CB	11.28	115.10	103.25
6	Z	409	PRO	N-CA-CB	11.28	115.10	103.25
6	Z	487	TRP	CA-C-N	-11.28	102.64	120.47
6	Z	487	TRP	C-N-CA	-11.28	102.64	120.47
6	N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	N	487	TRP	C-N-CA	-11.28	102.65	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	N	409	PRO	N-CA-CB	11.25	115.06	103.25
5	Y	378	SER	CA-C-N	11.24	143.01	121.54
5	Y	378	SER	C-N-CA	11.24	143.01	121.54
5	G	378	SER	CA-C-N	11.23	142.99	121.54
5	G	378	SER	C-N-CA	11.23	142.99	121.54
5	S	378	SER	CA-C-N	11.23	142.99	121.54
5	S	378	SER	C-N-CA	11.23	142.99	121.54
4	R	343	MET	CA-C-O	11.22	132.31	120.42
6	H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	H	487	TRP	C-N-CA	-11.22	102.75	120.47
4	L	203	ARG	N-CA-C	-11.22	99.05	111.28
6	T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	T	487	TRP	C-N-CA	-11.22	102.75	120.47
4	R	203	ARG	N-CA-C	-11.21	99.06	111.28
4	X	203	ARG	N-CA-C	-11.21	99.06	111.28
5	M	378	SER	CA-C-N	11.20	142.94	121.54
5	M	378	SER	C-N-CA	11.20	142.94	121.54
4	F	203	ARG	N-CA-C	-11.20	99.08	111.28
3	P	1472	SER	CA-C-O	11.19	132.75	121.00
4	X	343	MET	CA-C-O	11.19	132.29	120.42
5	G	333	PRO	CB-CA-C	-11.19	93.09	111.56
5	M	333	PRO	CB-CA-C	-11.19	93.10	111.56
4	F	343	MET	CA-C-O	11.19	132.28	120.42
7	V	161	CYS	CA-C-N	11.19	137.53	123.10
7	V	161	CYS	C-N-CA	11.19	137.53	123.10
3	D	1472	SER	CA-C-O	11.18	132.74	121.00
3	P	328	THR	CB-CA-C	-11.18	93.33	110.88
3	D	328	THR	CB-CA-C	-11.17	93.34	110.88
5	S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
4	L	343	MET	CA-C-O	11.16	132.25	120.42
5	M	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	G	327	ARG	CB-CA-C	-11.15	88.24	110.42
7	J	161	CYS	CA-C-N	11.14	137.47	123.10
7	J	161	CYS	C-N-CA	11.14	137.47	123.10
5	Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
6	Z	409	PRO	CB-CA-C	-11.12	93.21	111.56
6	H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	T	409	PRO	CB-CA-C	-11.10	93.25	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	5	GLY	O-C-N	-11.10	108.28	122.70
2	U	5	GLY	O-C-N	-11.10	108.27	122.70
5	Y	328	THR	CA-C-N	11.09	141.66	121.15
5	Y	328	THR	C-N-CA	11.09	141.66	121.15
4	F	232	THR	CA-C-O	-11.09	108.27	121.02
5	S	331	THR	CB-CA-C	11.08	133.21	112.05
4	F	465	GLN	CA-C-O	-11.08	108.89	121.07
2	O	5	GLY	O-C-N	-11.07	108.31	122.70
5	G	331	THR	CB-CA-C	11.06	133.19	112.05
3	P	1450	GLU	CA-C-N	11.06	142.67	121.54
3	P	1450	GLU	C-N-CA	11.06	142.67	121.54
3	D	1450	GLU	CA-C-N	11.06	142.66	121.54
3	D	1450	GLU	C-N-CA	11.06	142.66	121.54
2	C	5	GLY	O-C-N	-11.06	108.32	122.70
4	R	465	GLN	CA-C-O	-11.05	108.91	121.07
5	M	331	THR	CB-CA-C	11.05	133.16	112.05
4	F	421	LEU	N-CA-C	-11.05	97.54	111.02
7	V	1474	MET	N-CA-C	11.05	126.15	112.23
2	C	382	ASN	CA-C-N	11.05	142.64	121.54
2	C	382	ASN	C-N-CA	11.05	142.64	121.54
5	G	322	ALA	CA-C-O	-11.04	108.84	120.55
5	G	328	THR	CA-C-N	11.04	141.58	121.15
5	G	328	THR	C-N-CA	11.04	141.58	121.15
4	R	232	THR	CA-C-O	-11.04	108.33	121.02
5	Y	322	ALA	CA-C-O	-11.04	108.85	120.55
5	M	322	ALA	CA-C-O	-11.03	108.86	120.55
5	S	328	THR	CA-C-N	11.03	141.56	121.15
5	S	328	THR	C-N-CA	11.03	141.56	121.15
7	J	1474	MET	N-CA-C	11.03	126.13	112.23
4	L	232	THR	CA-C-O	-11.03	108.33	121.02
5	Y	331	THR	CB-CA-C	11.03	133.12	112.05
4	L	465	GLN	CA-C-O	-11.03	108.94	121.07
5	M	328	THR	CA-C-N	11.03	141.55	121.15
5	M	328	THR	C-N-CA	11.03	141.55	121.15
2	U	382	ASN	CA-C-N	11.03	142.60	121.54
2	U	382	ASN	C-N-CA	11.03	142.60	121.54
4	L	421	LEU	N-CA-C	-11.02	97.58	111.02
2	O	382	ASN	CA-C-N	11.02	142.58	121.54
2	O	382	ASN	C-N-CA	11.02	142.58	121.54
2	I	382	ASN	CA-C-N	11.01	142.56	121.54
2	I	382	ASN	C-N-CA	11.01	142.56	121.54
4	L	235	ASP	N-CA-CB	-11.00	93.10	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	421	LEU	N-CA-C	-11.00	97.60	111.02
4	X	232	THR	CA-C-O	-11.00	108.37	121.02
4	X	465	GLN	CA-C-O	-11.00	108.97	121.07
5	S	322	ALA	CA-C-O	-11.00	108.89	120.55
4	X	235	ASP	N-CA-CB	-10.99	93.11	109.82
4	X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	F	235	ASP	N-CA-CB	-10.99	93.12	109.82
4	R	428	LYS	O-C-N	10.98	134.67	122.15
2	I	250	VAL	N-CA-CB	-10.97	92.86	111.50
4	R	235	ASP	N-CA-CB	-10.96	93.16	109.82
2	U	7	GLY	CA-C-O	-10.95	101.52	120.57
2	C	250	VAL	N-CA-CB	-10.95	92.88	111.50
4	F	428	LYS	O-C-N	10.95	134.63	122.15
2	O	250	VAL	N-CA-CB	-10.95	92.89	111.50
3	P	1537	GLN	CA-C-O	10.95	132.02	120.42
2	I	7	GLY	CA-C-O	-10.94	101.54	120.57
2	U	250	VAL	N-CA-CB	-10.93	92.91	111.50
4	X	428	LYS	O-C-N	10.92	134.60	122.15
2	C	7	GLY	CA-C-O	-10.91	101.59	120.57
3	D	1537	GLN	CA-C-O	10.90	131.98	120.42
4	F	328	VAL	CA-C-O	-10.90	106.52	120.69
5	G	385	LEU	CB-CA-C	-10.89	92.71	110.79
2	O	7	GLY	CA-C-O	-10.89	101.62	120.57
3	D	1503	ILE	CA-C-O	-10.89	109.62	120.95
4	X	484	ASP	CA-C-N	-10.88	96.07	121.52
4	X	484	ASP	C-N-CA	-10.88	96.07	121.52
5	M	385	LEU	CB-CA-C	-10.87	92.74	110.79
4	L	428	LYS	O-C-N	10.87	134.54	122.15
4	R	328	VAL	CA-C-O	-10.87	106.56	120.69
4	L	484	ASP	CA-C-N	-10.86	96.12	121.52
4	L	484	ASP	C-N-CA	-10.86	96.12	121.52
5	S	385	LEU	CB-CA-C	-10.85	92.77	110.79
5	Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	P	1503	ILE	CA-C-O	-10.85	109.67	120.95
4	F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	R	484	ASP	CA-C-N	-10.85	96.14	121.52
4	R	484	ASP	C-N-CA	-10.85	96.14	121.52
6	Z	405	ASP	O-C-N	10.83	133.29	122.03
4	X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	L	243	TYR	N-CA-CB	10.82	130.51	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	243	TYR	N-CA-CB	10.80	130.48	111.69
4	F	243	TYR	N-CA-CB	10.79	130.46	111.69
4	R	243	TYR	N-CA-CB	10.78	130.45	111.69
5	G	278	LYS	N-CA-C	-10.77	102.34	114.62
6	N	405	ASP	O-C-N	10.77	133.23	122.03
5	M	278	LYS	N-CA-C	-10.76	102.35	114.62
5	S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	Y	278	LYS	N-CA-C	-10.75	102.37	114.62
4	F	299	ASN	O-C-N	-10.73	108.98	121.32
4	L	299	ASN	O-C-N	-10.73	108.98	121.32
6	H	405	ASP	O-C-N	10.72	133.18	122.03
6	T	405	ASP	O-C-N	10.72	133.18	122.03
4	F	222	THR	CB-CA-C	-10.72	89.09	110.42
4	X	490	LEU	CA-C-O	10.72	132.29	119.97
3	D	1516	LEU	CA-C-O	-10.71	109.20	120.55
4	R	299	ASN	O-C-N	-10.70	109.01	121.32
4	R	487	ASP	CB-CA-C	-10.70	87.75	110.32
3	P	1516	LEU	CA-C-O	-10.70	109.21	120.55
4	R	222	THR	CB-CA-C	-10.69	89.14	110.42
4	X	299	ASN	O-C-N	-10.69	109.02	121.32
5	G	339	TYR	N-CA-CB	10.69	128.22	110.79
6	H	381	LYS	N-CA-C	-10.69	99.42	111.82
4	L	487	ASP	CB-CA-C	-10.69	87.77	110.32
5	S	339	TYR	N-CA-CB	10.69	128.21	110.79
5	Y	339	TYR	N-CA-CB	10.69	128.21	110.79
4	X	487	ASP	CB-CA-C	-10.68	87.78	110.32
4	F	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	X	222	THR	CB-CA-C	-10.67	89.18	110.42
4	R	490	LEU	CA-C-O	10.67	132.24	119.97
4	L	424	PRO	O-C-N	10.67	137.04	122.64
3	D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	L	490	LEU	CA-C-O	10.66	132.23	119.97
4	F	397	ARG	CA-C-O	10.66	131.72	120.42
4	L	222	THR	CB-CA-C	-10.65	89.22	110.42
5	M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	D	1487	ASP	CA-C-O	10.65	135.74	120.51
3	P	1487	ASP	CA-C-O	10.65	135.73	120.51
6	Z	381	LYS	N-CA-C	-10.64	99.47	111.82
4	F	301	PRO	CA-C-N	10.64	137.62	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	301	PRO	C-N-CA	10.64	137.62	120.60
4	L	397	ARG	CA-C-O	10.64	131.70	120.42
4	L	301	PRO	CA-C-N	10.64	137.62	120.60
4	L	301	PRO	C-N-CA	10.64	137.62	120.60
6	N	381	LYS	N-CA-C	-10.63	99.49	111.82
4	R	424	PRO	O-C-N	10.62	136.98	122.64
4	X	301	PRO	CA-C-N	10.62	137.60	120.60
4	X	301	PRO	C-N-CA	10.62	137.60	120.60
4	X	424	PRO	O-C-N	10.63	136.99	122.64
4	F	424	PRO	O-C-N	10.62	136.98	122.64
4	F	490	LEU	CA-C-O	10.62	132.18	119.97
4	X	397	ARG	CA-C-O	10.61	131.67	120.42
4	R	301	PRO	CA-C-N	10.61	137.57	120.60
4	R	301	PRO	C-N-CA	10.61	137.57	120.60
6	T	381	LYS	N-CA-C	-10.60	99.53	111.82
4	R	397	ARG	CA-C-O	10.59	131.65	120.42
4	R	251	GLY	CA-C-N	10.59	137.33	122.72
4	R	251	GLY	C-N-CA	10.59	137.33	122.72
4	L	251	GLY	CA-C-N	10.57	137.31	122.72
4	L	251	GLY	C-N-CA	10.57	137.31	122.72
4	L	468	LYS	CA-C-O	-10.57	109.21	120.63
4	R	425	THR	CA-C-N	-10.56	105.30	120.29
4	R	425	THR	C-N-CA	-10.56	105.30	120.29
5	M	342	PRO	N-CA-C	10.55	127.39	113.57
4	X	251	GLY	CA-C-N	10.54	137.27	122.72
4	X	251	GLY	C-N-CA	10.54	137.27	122.72
4	F	460	LEU	O-C-N	10.54	134.22	122.20
4	R	460	LEU	O-C-N	10.54	134.22	122.20
5	Y	342	PRO	N-CA-C	10.54	127.38	113.57
4	L	425	THR	CA-C-N	-10.54	105.32	120.29
4	L	425	THR	C-N-CA	-10.54	105.32	120.29
4	F	251	GLY	CA-C-N	10.54	137.26	122.72
4	F	251	GLY	C-N-CA	10.54	137.26	122.72
5	S	330	LYS	CB-CA-C	10.53	127.65	110.37
4	X	468	LYS	CA-C-O	-10.53	109.25	120.63
5	M	330	LYS	CB-CA-C	10.53	127.64	110.37
3	P	1489	HIS	CA-C-O	-10.53	103.27	120.85
5	S	342	PRO	N-CA-C	10.53	127.36	113.57
6	T	473	GLN	CB-CA-C	-10.53	94.35	110.88
3	D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	G	342	PRO	N-CA-C	10.52	127.35	113.57
6	H	473	GLN	CB-CA-C	-10.52	94.37	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	221	GLN	CA-C-N	10.52	141.63	121.54
4	L	221	GLN	C-N-CA	10.52	141.63	121.54
4	X	460	LEU	O-C-N	10.52	134.19	122.20
4	F	425	THR	CA-C-N	-10.51	105.36	120.29
4	F	425	THR	C-N-CA	-10.51	105.36	120.29
6	Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
4	F	468	LYS	CA-C-O	-10.51	109.28	120.63
4	R	342	GLN	CA-C-N	10.51	135.21	120.29
4	R	342	GLN	C-N-CA	10.51	135.21	120.29
4	X	342	GLN	CA-C-N	10.51	135.21	120.29
4	X	342	GLN	C-N-CA	10.51	135.21	120.29
4	F	221	GLN	CA-C-N	10.50	141.60	121.54
4	F	221	GLN	C-N-CA	10.50	141.60	121.54
6	N	416	GLU	N-CA-C	-10.50	100.32	113.55
4	R	468	LYS	CA-C-O	-10.50	109.29	120.63
6	N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	X	221	GLN	CA-C-N	10.50	141.60	121.54
4	X	221	GLN	C-N-CA	10.50	141.60	121.54
6	H	416	GLU	N-CA-C	-10.50	100.32	113.55
4	X	425	THR	CA-C-N	-10.50	105.38	120.29
4	X	425	THR	C-N-CA	-10.50	105.38	120.29
5	Y	330	LYS	CB-CA-C	10.50	127.59	110.37
4	L	460	LEU	O-C-N	10.50	134.17	122.20
5	G	330	LYS	CB-CA-C	10.49	127.58	110.37
1	Q	259	SER	CA-C-N	10.49	141.58	121.54
1	Q	259	SER	C-N-CA	10.49	141.58	121.54
4	R	221	GLN	CA-C-N	10.49	141.57	121.54
4	R	221	GLN	C-N-CA	10.49	141.57	121.54
1	B	259	SER	CA-C-N	10.48	141.55	121.54
1	B	259	SER	C-N-CA	10.48	141.55	121.54
4	L	342	GLN	CA-C-N	10.48	135.17	120.29
4	L	342	GLN	C-N-CA	10.48	135.17	120.29
1	W	259	SER	CA-C-N	10.48	141.55	121.54
1	W	259	SER	C-N-CA	10.48	141.55	121.54
1	K	259	SER	CA-C-N	10.47	141.54	121.54
1	K	259	SER	C-N-CA	10.47	141.54	121.54
1	A	259	SER	CA-C-N	10.47	141.54	121.54
1	A	259	SER	C-N-CA	10.47	141.54	121.54
1	E	259	SER	CA-C-N	10.47	141.54	121.54
1	E	259	SER	C-N-CA	10.47	141.54	121.54
6	Z	416	GLU	N-CA-C	-10.47	100.36	113.55
6	T	416	GLU	N-CA-C	-10.46	100.37	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	408	SER	O-C-N	10.45	133.34	121.32
2	C	14	GLU	CA-C-N	10.44	136.18	120.31
2	C	14	GLU	C-N-CA	10.44	136.18	120.31
3	D	446	ILE	CB-CA-C	-10.44	98.61	111.97
2	O	14	GLU	CA-C-N	10.44	136.18	120.31
2	O	14	GLU	C-N-CA	10.44	136.18	120.31
2	I	14	GLU	CA-C-N	10.44	136.17	120.31
2	I	14	GLU	C-N-CA	10.44	136.17	120.31
4	F	342	GLN	CA-C-N	10.43	135.11	120.29
4	F	342	GLN	C-N-CA	10.43	135.11	120.29
3	P	446	ILE	CB-CA-C	-10.43	98.61	111.97
6	Z	408	SER	O-C-N	10.43	133.32	121.32
6	Z	410	LEU	CB-CA-C	10.40	132.05	110.31
3	P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	P	1487	ASP	C-N-CA	-10.40	107.01	120.22
6	H	494	LEU	N-CA-C	10.40	132.95	110.80
4	F	341	ASP	N-CA-CB	10.40	126.39	110.28
6	H	408	SER	O-C-N	10.40	133.28	121.32
4	L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	H	410	LEU	CB-CA-C	10.39	132.03	110.31
6	T	408	SER	O-C-N	10.39	133.27	121.32
2	U	14	GLU	CA-C-N	10.39	136.10	120.31
2	U	14	GLU	C-N-CA	10.39	136.10	120.31
6	Z	494	LEU	N-CA-C	10.39	132.93	110.80
3	D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	D	1487	ASP	C-N-CA	-10.39	107.03	120.22
7	V	425	PRO	CA-C-N	10.39	134.61	120.38
7	V	425	PRO	C-N-CA	10.39	134.61	120.38
6	H	408	SER	N-CA-C	10.38	132.76	109.81
6	N	410	LEU	CB-CA-C	10.38	132.01	110.31
6	N	494	LEU	N-CA-C	10.38	132.91	110.80
3	D	1538	SER	CA-C-O	-10.38	106.93	119.49
4	R	341	ASP	N-CA-CB	10.38	126.37	110.28
6	Z	408	SER	N-CA-C	10.38	132.74	109.81
4	X	341	ASP	N-CA-CB	10.38	126.36	110.28
6	T	494	LEU	N-CA-C	10.37	132.89	110.80
6	T	408	SER	N-CA-C	10.37	132.72	109.81
6	T	410	LEU	CB-CA-C	10.36	131.97	110.31
3	P	1538	SER	CA-C-O	-10.36	106.95	119.49
7	J	110	THR	N-CA-C	-10.35	99.39	114.39
7	J	425	PRO	CA-C-N	10.34	134.55	120.38
7	J	425	PRO	C-N-CA	10.34	134.55	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	1512	TRP	O-C-N	10.33	133.93	122.15
6	N	408	SER	N-CA-C	10.32	132.63	109.81
6	N	416	GLU	N-CA-CB	10.32	125.37	110.40
7	V	110	THR	N-CA-C	-10.32	99.43	114.39
6	H	416	GLU	N-CA-CB	10.31	125.35	110.40
5	S	378	SER	CA-C-O	-10.31	105.77	120.51
5	Y	378	SER	CA-C-O	-10.30	105.78	120.51
5	M	378	SER	CA-C-O	-10.30	105.78	120.51
5	G	378	SER	CA-C-O	-10.29	105.79	120.51
6	T	416	GLU	N-CA-CB	10.29	125.33	110.40
6	Z	416	GLU	N-CA-CB	10.28	125.31	110.40
3	D	1512	TRP	O-C-N	10.28	133.87	122.15
6	N	477	ILE	N-CA-C	-10.28	100.34	110.72
2	U	454	THR	CA-C-N	10.28	140.21	121.70
2	U	454	THR	C-N-CA	10.28	140.21	121.70
6	H	477	ILE	N-CA-C	-10.27	100.34	110.72
4	X	248	SER	CA-C-N	10.27	131.38	119.47
4	X	248	SER	C-N-CA	10.27	131.38	119.47
4	X	493	HIS	CA-C-O	-10.26	103.35	120.80
3	D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	I	454	THR	CA-C-N	10.26	140.17	121.70
2	I	454	THR	C-N-CA	10.26	140.17	121.70
2	O	454	THR	CA-C-N	10.26	140.17	121.70
2	O	454	THR	C-N-CA	10.26	140.17	121.70
3	P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	P	1449	TRP	C-N-CA	10.26	141.14	121.54
6	Z	477	ILE	N-CA-C	-10.26	100.36	110.72
3	D	1487	ASP	N-CA-C	10.25	132.64	110.80
6	T	477	ILE	N-CA-C	-10.25	100.36	110.72
2	C	454	THR	CA-C-N	10.24	140.14	121.70
2	C	454	THR	C-N-CA	10.24	140.14	121.70
4	R	248	SER	CA-C-N	10.24	131.35	119.47
4	R	248	SER	C-N-CA	10.24	131.35	119.47
3	P	1487	ASP	N-CA-C	10.23	132.60	110.80
4	F	248	SER	CA-C-N	10.23	131.33	119.47
4	F	248	SER	C-N-CA	10.23	131.33	119.47
4	L	248	SER	CA-C-N	10.23	131.33	119.47
4	L	248	SER	C-N-CA	10.23	131.33	119.47
4	F	305	ASP	N-CA-CB	10.22	126.67	110.01
4	L	305	ASP	N-CA-CB	10.22	126.67	110.01
4	R	493	HIS	CA-C-O	-10.22	103.42	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	D	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	P	1540	LEU	C-N-CA	-10.22	107.31	120.09
4	R	305	ASP	N-CA-CB	10.21	126.66	110.01
5	S	335	LEU	O-C-N	-10.21	109.01	122.59
4	X	305	ASP	N-CA-CB	10.21	126.66	110.01
6	N	365	LEU	CA-C-N	10.18	133.39	120.56
6	N	365	LEU	C-N-CA	10.18	133.39	120.56
4	L	493	HIS	CA-C-O	-10.18	103.49	120.80
5	G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	G	335	LEU	O-C-N	-10.17	109.06	122.59
5	M	335	LEU	O-C-N	-10.17	109.07	122.59
6	T	365	LEU	CA-C-N	10.17	133.37	120.56
6	T	365	LEU	C-N-CA	10.17	133.37	120.56
5	Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	D	1518	ASN	CA-C-N	-10.16	102.13	121.54
3	D	1518	ASN	C-N-CA	-10.16	102.13	121.54
7	V	1500	HIS	CA-C-N	10.16	133.89	120.28
7	V	1500	HIS	C-N-CA	10.16	133.89	120.28
6	Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	Z	365	LEU	C-N-CA	10.15	133.35	120.56
4	F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	P	1518	ASN	C-N-CA	-10.15	102.15	121.54
5	S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	Y	335	LEU	O-C-N	-10.14	109.10	122.59
6	H	412	GLU	CB-CA-C	-10.14	92.07	111.03
2	C	15	GLN	N-CA-CB	10.13	125.98	110.28
2	O	15	GLN	N-CA-CB	10.12	125.97	110.28
6	N	412	GLU	CB-CA-C	-10.12	92.11	111.03
6	Z	412	GLU	CB-CA-C	-10.12	92.11	111.03
6	T	477	ILE	CB-CA-C	10.12	126.18	112.22
2	I	15	GLN	N-CA-CB	10.11	125.96	110.28
6	H	365	LEU	CA-C-N	10.11	133.29	120.56
6	H	365	LEU	C-N-CA	10.11	133.29	120.56
6	T	412	GLU	CB-CA-C	-10.11	92.13	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	1500	HIS	CA-C-N	10.10	133.82	120.28
7	J	1500	HIS	C-N-CA	10.10	133.82	120.28
6	Z	477	ILE	CB-CA-C	10.10	126.16	112.22
6	Z	462	GLY	CA-C-N	10.10	145.72	121.68
6	Z	462	GLY	C-N-CA	10.10	145.72	121.68
6	H	477	ILE	CB-CA-C	10.10	126.16	112.22
2	U	15	GLN	N-CA-CB	10.10	125.93	110.28
6	N	477	ILE	CB-CA-C	10.10	126.15	112.22
3	D	1506	VAL	N-CA-C	10.09	120.91	110.72
4	F	207	GLN	N-CA-C	-10.09	99.28	111.69
3	P	1514	LEU	N-CA-C	10.09	122.36	111.36
6	H	462	GLY	CA-C-N	10.09	145.69	121.68
6	H	462	GLY	C-N-CA	10.09	145.69	121.68
6	N	462	GLY	CA-C-N	10.09	145.69	121.68
6	N	462	GLY	C-N-CA	10.09	145.69	121.68
6	T	462	GLY	CA-C-N	10.09	145.69	121.68
6	T	462	GLY	C-N-CA	10.09	145.69	121.68
4	R	207	GLN	N-CA-C	-10.08	99.29	111.69
5	Y	274	ARG	O-C-N	-10.08	111.43	122.12
3	D	1514	LEU	N-CA-C	10.08	122.34	111.36
4	L	425	THR	O-C-N	10.07	136.66	122.36
4	L	207	GLN	N-CA-C	-10.07	99.31	111.69
3	D	1518	ASN	O-C-N	10.06	132.85	122.08
3	D	1516	LEU	O-C-N	10.05	132.77	122.12
3	P	1518	ASN	O-C-N	10.05	132.83	122.08
4	F	425	THR	O-C-N	10.04	136.61	122.36
4	X	207	GLN	N-CA-C	-10.03	99.36	111.69
3	P	1506	VAL	N-CA-C	10.02	120.84	110.72
5	S	342	PRO	CA-C-N	-10.02	102.39	121.54
5	S	342	PRO	C-N-CA	-10.02	102.39	121.54
4	R	425	THR	O-C-N	10.02	136.59	122.36
4	F	491	VAL	CA-C-O	10.02	132.66	119.53
4	X	491	VAL	CA-C-O	10.02	132.65	119.53
5	S	274	ARG	O-C-N	-10.02	111.50	122.12
3	P	1516	LEU	O-C-N	10.01	132.74	122.12
5	M	342	PRO	CA-C-N	-10.01	102.42	121.54
5	M	342	PRO	C-N-CA	-10.01	102.42	121.54
5	G	274	ARG	O-C-N	-10.01	111.51	122.12
4	R	491	VAL	CA-C-O	10.01	132.64	119.53
5	G	342	PRO	CA-C-N	-10.01	102.43	121.54
5	G	342	PRO	C-N-CA	-10.01	102.43	121.54
5	Y	251	ILE	CA-C-N	-10.01	106.62	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	251	ILE	C-N-CA	-10.01	106.62	122.73
4	X	425	THR	O-C-N	10.00	136.56	122.36
2	O	308	LEU	CA-C-N	10.00	136.78	122.08
2	O	308	LEU	C-N-CA	10.00	136.78	122.08
5	Y	342	PRO	CA-C-N	-10.00	102.45	121.54
5	Y	342	PRO	C-N-CA	-10.00	102.45	121.54
5	M	251	ILE	CA-C-N	-9.99	106.64	122.73
5	M	251	ILE	C-N-CA	-9.99	106.64	122.73
5	M	274	ARG	O-C-N	-9.99	111.53	122.12
2	U	308	LEU	CA-C-N	9.99	136.76	122.08
2	U	308	LEU	C-N-CA	9.99	136.76	122.08
4	L	472	GLU	CA-C-O	-9.98	109.84	120.42
2	I	308	LEU	CA-C-N	9.96	136.73	122.08
2	I	308	LEU	C-N-CA	9.96	136.73	122.08
5	S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	S	251	ILE	C-N-CA	-9.96	106.69	122.73
4	L	482	LYS	N-CA-CB	9.96	124.45	110.01
4	R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	F	482	LYS	N-CA-CB	9.96	124.45	110.01
4	L	491	VAL	CA-C-O	9.96	132.57	119.53
4	R	463	ILE	CA-C-O	-9.96	108.33	120.78
3	P	1509	GLN	N-CA-C	9.96	122.21	111.36
4	X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	X	482	LYS	N-CA-CB	9.93	124.42	110.01
5	G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	G	251	ILE	C-N-CA	-9.93	106.74	122.73
2	C	308	LEU	CA-C-N	9.93	136.68	122.08
2	C	308	LEU	C-N-CA	9.93	136.68	122.08
4	R	482	LYS	N-CA-CB	9.93	124.41	110.01
3	D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	P	1486	CYS	N-CA-C	9.92	122.10	111.28
4	R	236	ASP	CA-C-N	-9.92	106.65	122.73
4	R	236	ASP	C-N-CA	-9.92	106.65	122.73
4	L	236	ASP	CA-C-N	-9.92	106.66	122.73
4	L	236	ASP	C-N-CA	-9.92	106.66	122.73
4	F	236	ASP	CA-C-N	-9.91	106.67	122.73
4	F	236	ASP	C-N-CA	-9.91	106.67	122.73
4	L	463	ILE	CA-C-O	-9.90	108.40	120.78
3	D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	X	236	ASP	CA-C-N	-9.88	106.72	122.73
4	X	236	ASP	C-N-CA	-9.88	106.72	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	463	ILE	CA-C-O	-9.88	108.42	120.78
6	Z	501	GLU	CA-C-O	9.88	131.26	119.61
4	F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	F	253	SER	CA-C-O	-9.86	109.96	121.11
4	X	253	SER	CA-C-O	-9.86	109.97	121.11
4	F	307	ILE	N-CA-C	-9.84	100.78	110.72
4	L	253	SER	CA-C-O	-9.84	109.99	121.11
6	H	446	ARG	CA-C-N	9.84	134.26	120.29
6	H	446	ARG	C-N-CA	9.84	134.26	120.29
6	H	501	GLU	CA-C-O	9.84	131.22	119.61
5	S	277	SER	N-CA-C	9.84	124.91	109.07
4	R	253	SER	CA-C-O	-9.83	110.00	121.11
6	T	501	GLU	CA-C-O	9.83	131.21	119.61
6	Z	446	ARG	CA-C-N	9.81	134.22	120.29
6	Z	446	ARG	C-N-CA	9.81	134.22	120.29
6	N	446	ARG	CA-C-N	9.81	134.22	120.29
6	N	446	ARG	C-N-CA	9.81	134.22	120.29
4	L	307	ILE	N-CA-C	-9.81	100.81	110.72
6	N	501	GLU	CA-C-O	9.80	131.18	119.61
4	R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	X	307	ILE	N-CA-C	-9.79	100.83	110.72
6	Z	394	ASP	CA-C-N	-9.79	103.84	120.58
6	Z	394	ASP	C-N-CA	-9.79	103.84	120.58
7	J	66	ASP	N-CA-C	-9.78	102.13	114.56
6	T	446	ARG	CA-C-N	9.79	134.18	120.29
6	T	446	ARG	C-N-CA	9.79	134.18	120.29
7	V	66	ASP	N-CA-C	-9.78	102.14	114.56
5	Y	277	SER	N-CA-C	9.78	124.81	109.07
5	M	277	SER	N-CA-C	9.76	124.78	109.07
5	G	277	SER	N-CA-C	9.75	124.77	109.07
6	H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	H	394	ASP	C-N-CA	-9.75	103.91	120.58
6	N	394	ASP	CA-C-N	-9.74	103.92	120.58
6	N	394	ASP	C-N-CA	-9.74	103.92	120.58
4	L	394	GLU	CA-C-N	-9.73	106.82	120.74
4	L	394	GLU	C-N-CA	-9.73	106.82	120.74
4	X	394	GLU	CA-C-N	-9.73	106.83	120.74
4	X	394	GLU	C-N-CA	-9.73	106.83	120.74
5	G	365	GLU	N-CA-C	-9.72	99.98	112.23
4	R	394	GLU	CA-C-N	-9.71	106.85	120.74
4	R	394	GLU	C-N-CA	-9.71	106.85	120.74
6	T	394	ASP	CA-C-N	-9.71	103.97	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	F	394	GLU	CA-C-N	-9.71	106.86	120.74
4	F	394	GLU	C-N-CA	-9.71	106.86	120.74
4	L	211	GLU	N-CA-C	9.71	131.48	110.80
4	F	211	GLU	N-CA-C	9.69	131.45	110.80
4	X	211	GLU	N-CA-C	9.69	131.44	110.80
6	N	413	LEU	N-CA-CB	9.69	124.12	110.07
3	D	1503	ILE	CA-C-N	9.68	136.50	120.62
3	D	1503	ILE	C-N-CA	9.68	136.50	120.62
4	L	468	LYS	O-C-N	9.68	132.38	122.12
4	L	299	ASN	CA-C-N	9.68	130.35	120.38
4	L	299	ASN	C-N-CA	9.68	130.35	120.38
6	H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	P	1503	ILE	C-N-CA	9.67	136.48	120.62
4	R	211	GLU	N-CA-C	9.67	131.39	110.80
4	R	299	ASN	CA-C-N	9.67	130.34	120.38
4	R	299	ASN	C-N-CA	9.67	130.34	120.38
5	M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	F	299	ASN	CA-C-N	9.66	130.33	120.38
4	F	299	ASN	C-N-CA	9.66	130.33	120.38
6	T	413	LEU	N-CA-CB	9.66	124.08	110.07
4	X	299	ASN	CA-C-N	9.65	130.32	120.38
4	X	299	ASN	C-N-CA	9.65	130.32	120.38
6	Z	413	LEU	N-CA-CB	9.65	124.06	110.07
4	F	401	TYR	N-CA-CB	9.65	126.79	110.49
4	L	437	GLN	N-CA-C	9.64	121.39	111.07
4	R	468	LYS	O-C-N	9.64	132.34	122.12
6	T	453	ASP	N-CA-C	-9.63	100.86	111.36
4	X	401	TYR	N-CA-CB	9.63	126.77	110.49
5	S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	Y	365	GLU	N-CA-C	-9.63	100.10	112.23
4	L	401	TYR	N-CA-CB	9.62	126.75	110.49
4	R	401	TYR	N-CA-CB	9.62	126.75	110.49
4	R	443	HIS	O-C-N	-9.62	109.80	122.59
4	L	144	LEU	CB-CA-C	-9.62	89.89	109.99
6	N	338	ASN	CB-CA-C	-9.60	95.81	110.88
4	X	468	LYS	O-C-N	9.60	132.30	122.12
4	R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	X	443	HIS	O-C-N	-9.60	109.83	122.59
6	Z	338	ASN	CB-CA-C	-9.59	95.82	110.88
6	Z	453	ASP	N-CA-C	-9.59	100.91	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	X	437	GLN	N-CA-C	9.59	121.33	111.07
4	F	468	LYS	O-C-N	9.59	132.28	122.12
4	X	419	GLY	CA-C-O	-9.59	103.81	119.15
6	N	453	ASP	N-CA-C	-9.58	100.92	111.36
4	X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	F	443	HIS	O-C-N	-9.58	109.86	122.59
6	T	338	ASN	CB-CA-C	-9.58	95.85	110.88
6	H	338	ASN	CB-CA-C	-9.57	95.85	110.88
3	P	1491	ILE	CA-C-O	9.57	131.31	121.17
6	N	374	SER	CB-CA-C	-9.57	91.93	110.11
7	V	868	PRO	N-CA-C	9.56	126.21	113.40
4	F	303	GLY	N-CA-C	-9.56	90.53	113.18
4	L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	R	437	GLN	N-CA-C	9.56	121.30	111.07
4	F	419	GLY	CA-C-O	-9.55	103.86	119.15
6	H	374	SER	CB-CA-C	-9.55	91.96	110.11
4	F	437	GLN	N-CA-C	9.55	121.29	111.07
4	X	303	GLY	N-CA-C	-9.55	90.55	113.18
6	Z	374	SER	CB-CA-C	-9.55	91.97	110.11
4	L	443	HIS	O-C-N	-9.55	109.89	122.59
4	R	419	GLY	CA-C-O	-9.55	103.88	119.15
7	J	868	PRO	N-CA-C	9.54	126.18	113.40
4	R	303	GLY	N-CA-C	-9.53	90.59	113.18
6	T	374	SER	CB-CA-C	-9.53	92.00	110.11
5	G	392	ILE	CA-C-N	-9.52	104.47	121.14
5	G	392	ILE	C-N-CA	-9.52	104.47	121.14
5	S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	S	392	ILE	C-N-CA	-9.52	104.48	121.14
5	Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	M	392	ILE	CA-C-N	-9.52	104.48	121.14
5	M	392	ILE	C-N-CA	-9.52	104.48	121.14
6	H	453	ASP	N-CA-C	-9.52	100.99	111.36
4	L	303	GLY	N-CA-C	-9.51	90.65	113.18
3	D	1517	SER	O-C-N	9.46	133.65	122.20
4	L	420	GLU	N-CA-C	-9.46	99.47	111.02
4	X	420	GLU	N-CA-C	-9.46	99.48	111.02
4	F	420	GLU	N-CA-C	-9.45	99.49	111.02
5	M	312	LYS	O-C-N	9.45	131.81	122.07
3	P	1517	SER	O-C-N	9.44	133.63	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	215	LYS	N-CA-C	-9.44	100.54	112.90
4	L	215	LYS	N-CA-C	-9.43	100.55	112.90
4	R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	X	215	LYS	N-CA-C	-9.43	100.55	112.90
4	F	215	LYS	N-CA-C	-9.42	100.56	112.90
5	G	312	LYS	O-C-N	9.42	131.77	122.07
4	X	439	ARG	N-CA-CB	9.42	124.88	110.28
4	F	398	LYS	CA-C-O	9.42	131.46	119.12
5	Y	312	LYS	O-C-N	9.41	131.76	122.07
4	F	439	ARG	N-CA-CB	9.41	124.86	110.28
4	R	268	ALA	CA-C-N	9.41	133.23	120.44
4	R	268	ALA	C-N-CA	9.41	133.23	120.44
4	R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	L	268	ALA	CA-C-N	9.40	133.22	120.44
4	L	268	ALA	C-N-CA	9.40	133.22	120.44
4	R	398	LYS	CA-C-O	9.39	131.43	119.12
4	F	268	ALA	CA-C-N	9.39	133.21	120.44
4	F	268	ALA	C-N-CA	9.39	133.21	120.44
4	X	398	LYS	CA-C-O	9.38	131.41	119.12
5	S	331	THR	N-CA-CB	-9.38	95.89	110.43
4	X	268	ALA	CA-C-N	9.38	133.19	120.44
4	X	268	ALA	C-N-CA	9.38	133.19	120.44
4	L	398	LYS	CA-C-O	9.37	131.40	119.12
4	L	439	ARG	N-CA-CB	9.36	124.79	110.28
5	Y	331	THR	N-CA-CB	-9.36	95.93	110.43
2	I	5	GLY	N-CA-C	9.34	135.32	113.18
6	Z	487	TRP	CA-C-O	9.34	130.45	120.55
2	C	5	GLY	N-CA-C	9.33	135.29	113.18
6	H	487	TRP	CA-C-O	9.33	130.44	120.55
5	G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	S	312	LYS	O-C-N	9.32	131.68	122.07
2	O	5	GLY	N-CA-C	9.32	135.27	113.18
2	U	5	GLY	N-CA-C	9.31	135.25	113.18
7	V	95	CYS	CA-C-N	9.31	134.46	120.31
7	V	95	CYS	C-N-CA	9.31	134.46	120.31
7	J	95	CYS	CA-C-N	9.28	134.42	120.31
7	J	95	CYS	C-N-CA	9.28	134.42	120.31
5	M	344	ASP	CA-C-O	9.28	133.78	120.51
5	Y	344	ASP	CA-C-O	9.28	133.78	120.51
3	P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	D	1448	MET	N-CA-C	-9.27	101.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	487	TRP	CA-C-O	9.25	130.35	120.55
6	T	487	TRP	CA-C-O	9.25	130.35	120.55
5	G	344	ASP	CA-C-O	9.25	133.73	120.51
4	R	252	THR	N-CA-CB	9.25	125.50	110.43
7	V	413	ASP	O-C-N	9.24	125.78	121.53
4	X	493	HIS	N-CA-CB	-9.24	94.80	110.50
5	M	296	LEU	CB-CA-C	-9.23	96.38	110.88
4	X	252	THR	N-CA-CB	9.23	125.47	110.43
3	P	1510	GLN	O-C-N	9.22	134.75	122.30
4	L	252	THR	N-CA-CB	9.22	125.46	110.43
5	S	344	ASP	CA-C-O	9.22	133.69	120.51
4	F	493	HIS	N-CA-CB	-9.21	94.83	110.50
2	O	28	HIS	CB-CA-C	9.21	127.48	109.33
2	U	28	HIS	CB-CA-C	9.21	127.48	109.33
2	C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	F	425	THR	N-CA-C	-9.21	100.84	112.90
4	L	493	HIS	N-CA-CB	-9.21	94.85	110.50
4	R	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	I	28	HIS	CB-CA-C	9.21	127.47	109.33
4	L	425	THR	N-CA-C	-9.20	100.84	112.90
5	Y	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	S	296	LEU	CB-CA-C	-9.20	96.44	110.88
4	R	425	THR	N-CA-C	-9.19	100.86	112.90
5	G	296	LEU	CB-CA-C	-9.19	96.46	110.88
7	J	413	ASP	O-C-N	9.18	125.75	121.53
4	F	252	THR	N-CA-CB	9.18	125.39	110.43
4	L	223	LEU	N-CA-C	9.17	123.37	108.34
4	X	425	THR	N-CA-C	-9.16	100.90	112.90
4	F	223	LEU	N-CA-C	9.15	123.35	108.34
3	P	1491	ILE	CB-CA-C	-9.15	100.26	111.97
4	R	223	LEU	N-CA-C	9.14	123.33	108.34
6	T	500	GLU	CA-C-N	9.14	135.34	120.63
6	T	500	GLU	C-N-CA	9.14	135.34	120.63
4	X	223	LEU	N-CA-C	9.14	123.33	108.34
3	D	1491	ILE	CB-CA-C	-9.13	100.28	111.97
4	R	452	ARG	N-CA-C	9.14	130.26	110.80
3	P	1663	GLN	N-CA-C	9.12	121.92	108.60
4	F	452	ARG	N-CA-C	9.12	130.23	110.80
7	J	829	PRO	N-CA-C	9.11	121.82	110.70
4	L	452	ARG	N-CA-C	9.11	130.21	110.80
3	D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	H	500	GLU	CA-C-N	9.11	135.30	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	H	500	GLU	C-N-CA	9.11	135.30	120.63
6	N	469	ASP	CA-C-N	9.11	131.23	119.84
6	N	469	ASP	C-N-CA	9.11	131.23	119.84
6	N	500	GLU	CA-C-N	9.10	135.28	120.63
6	N	500	GLU	C-N-CA	9.10	135.28	120.63
4	X	452	ARG	N-CA-C	9.10	130.19	110.80
7	V	829	PRO	N-CA-C	9.10	121.80	110.70
7	V	867	LEU	N-CA-C	9.10	124.54	112.35
6	Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	Z	500	GLU	C-N-CA	9.10	135.27	120.63
4	F	394	GLU	CB-CA-C	-9.09	91.00	109.99
3	D	1493	ARG	CA-C-O	9.08	130.44	120.63
7	J	317	PRO	N-CA-C	9.08	125.47	113.57
2	I	383	THR	CA-C-N	9.07	133.81	120.83
2	I	383	THR	C-N-CA	9.07	133.81	120.83
7	J	867	LEU	N-CA-C	9.07	124.51	112.35
4	R	394	GLU	CB-CA-C	-9.07	91.02	109.99
5	M	274	ARG	CA-C-O	9.07	130.17	120.55
4	X	394	GLU	CB-CA-C	-9.07	91.03	109.99
6	H	469	ASP	CA-C-N	9.07	131.18	119.84
6	H	469	ASP	C-N-CA	9.07	131.18	119.84
4	L	489	LYS	CA-C-N	-9.06	106.53	120.31
4	L	489	LYS	C-N-CA	-9.06	106.53	120.31
3	P	1493	ARG	CA-C-O	9.06	130.42	120.63
4	L	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	O	3	THR	CA-C-O	9.06	131.35	121.11
5	Y	274	ARG	CA-C-O	9.06	130.16	120.55
2	C	383	THR	CA-C-N	9.06	133.78	120.83
2	C	383	THR	C-N-CA	9.06	133.78	120.83
7	V	317	PRO	N-CA-C	9.06	125.43	113.57
4	R	489	LYS	CA-C-N	-9.05	106.55	120.31
4	R	489	LYS	C-N-CA	-9.05	106.55	120.31
6	T	469	ASP	CA-C-N	9.05	131.16	119.84
6	T	469	ASP	C-N-CA	9.05	131.16	119.84
2	C	3	THR	CA-C-O	9.05	131.34	121.11
4	F	489	LYS	CA-C-N	-9.04	106.56	120.31
4	F	489	LYS	C-N-CA	-9.04	106.56	120.31
5	G	274	ARG	CA-C-O	9.04	130.13	120.55
5	S	274	ARG	CA-C-O	9.04	130.14	120.55
6	Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	Z	469	ASP	C-N-CA	9.04	131.14	119.84
4	R	327	MET	CB-CA-C	-9.03	91.54	109.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	489	LYS	CA-C-N	-9.03	106.58	120.31
4	X	489	LYS	C-N-CA	-9.03	106.58	120.31
3	P	1546	LEU	N-CA-C	9.02	122.09	111.71
4	X	327	MET	CB-CA-C	-9.02	91.56	109.33
2	U	383	THR	CA-C-N	9.02	133.72	120.83
2	U	383	THR	C-N-CA	9.02	133.72	120.83
4	F	327	MET	CB-CA-C	-9.01	91.57	109.33
4	L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	O	383	THR	CA-C-N	9.01	133.72	120.83
2	O	383	THR	C-N-CA	9.01	133.72	120.83
6	N	381	LYS	N-CA-CB	-9.01	96.32	110.28
6	Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	X	485	LEU	N-CA-CB	-9.01	94.57	110.42
6	T	481	HIS	CB-CA-C	-9.00	96.74	110.88
3	D	1448	MET	O-C-N	9.00	131.66	122.12
2	I	3	THR	CA-C-O	9.00	131.28	121.11
6	H	381	LYS	N-CA-CB	-9.00	96.33	110.28
6	H	481	HIS	CB-CA-C	-9.00	96.76	110.88
3	P	1448	MET	O-C-N	9.00	131.66	122.12
6	N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	T	381	LYS	N-CA-CB	-8.99	96.35	110.28
3	D	1546	LEU	N-CA-C	8.99	122.05	111.71
6	Z	494	LEU	O-C-N	8.98	134.54	122.59
4	F	485	LEU	N-CA-CB	-8.97	94.63	110.42
3	D	1505	SER	CA-C-N	-8.97	107.68	120.42
3	D	1505	SER	C-N-CA	-8.97	107.68	120.42
3	D	1665	VAL	N-CA-C	-8.97	99.84	111.05
2	U	3	THR	CA-C-O	8.96	131.24	121.11
6	Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
4	R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	R	469	GLN	CA-C-N	-8.95	106.27	120.60
4	R	469	GLN	C-N-CA	-8.95	106.27	120.60
4	X	403	ILE	CA-C-O	8.95	131.97	120.78
3	P	1505	SER	CA-C-N	-8.95	107.71	120.42
3	P	1505	SER	C-N-CA	-8.95	107.71	120.42
4	L	469	GLN	CA-C-N	-8.95	106.29	120.60
4	L	469	GLN	C-N-CA	-8.95	106.29	120.60
4	X	469	GLN	CA-C-N	-8.95	106.29	120.60
4	X	469	GLN	C-N-CA	-8.95	106.29	120.60
6	N	494	LEU	O-C-N	8.94	134.48	122.59
3	P	1665	VAL	N-CA-C	-8.94	99.88	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	F	469	GLN	C-N-CA	-8.93	106.32	120.60
6	T	494	LEU	O-C-N	8.93	134.46	122.59
6	N	501	GLU	N-CA-C	8.92	123.94	112.34
4	R	451	GLU	CA-C-N	-8.91	104.52	121.54
4	R	451	GLU	C-N-CA	-8.91	104.52	121.54
6	Z	501	GLU	N-CA-C	8.91	123.92	112.34
4	X	211	GLU	CA-C-O	8.90	133.24	120.51
4	R	403	ILE	CA-C-O	8.90	131.91	120.78
4	F	403	ILE	CA-C-O	8.90	131.90	120.78
6	H	494	LEU	O-C-N	8.90	134.42	122.59
4	L	211	GLU	CA-C-O	8.90	133.23	120.51
4	L	451	GLU	CA-C-N	-8.89	104.55	121.54
4	L	451	GLU	C-N-CA	-8.89	104.55	121.54
4	X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	L	403	ILE	CA-C-O	8.89	131.89	120.78
4	X	367	THR	CA-C-O	-8.89	108.28	119.31
4	F	211	GLU	CA-C-O	8.89	133.22	120.51
4	F	451	GLU	CA-C-N	-8.89	104.57	121.54
4	F	451	GLU	C-N-CA	-8.89	104.57	121.54
6	H	501	GLU	N-CA-C	8.88	123.89	112.34
4	L	367	THR	CA-C-O	-8.88	108.30	119.31
6	T	501	GLU	N-CA-C	8.88	123.89	112.34
4	R	415	ASP	O-C-N	8.88	131.53	122.12
4	R	367	THR	CA-C-O	-8.87	108.31	119.31
5	Y	401	ALA	N-CA-CB	8.86	123.14	109.94
1	K	1343	ASN	CA-C-N	8.85	131.95	120.44
1	K	1343	ASN	C-N-CA	8.85	131.95	120.44
4	X	415	ASP	O-C-N	8.85	131.50	122.12
3	P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	P	1507	ASP	C-N-CA	8.85	138.44	121.54
4	X	454	TYR	O-C-N	8.85	134.35	122.59
4	F	367	THR	CA-C-O	-8.84	108.35	119.31
3	D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	D	1507	ASP	C-N-CA	8.84	138.42	121.54
5	M	381	THR	N-CA-C	8.84	129.35	109.81
2	U	7	GLY	N-CA-C	-8.84	92.24	113.18
5	Y	381	THR	N-CA-C	8.83	129.33	109.81
1	E	1343	ASN	CA-C-N	8.83	131.92	120.44
1	E	1343	ASN	C-N-CA	8.83	131.92	120.44
2	O	7	GLY	N-CA-C	-8.83	92.26	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	401	ALA	N-CA-CB	8.83	123.09	109.94
2	I	7	GLY	N-CA-C	-8.83	92.26	113.18
4	R	454	TYR	O-C-N	8.83	134.33	122.59
6	N	369	GLY	CA-C-N	8.82	132.44	120.44
6	N	369	GLY	C-N-CA	8.82	132.44	120.44
5	S	322	ALA	O-C-N	8.82	131.47	122.12
5	G	322	ALA	O-C-N	8.82	131.47	122.12
5	S	381	THR	N-CA-C	8.82	129.30	109.81
1	W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	W	1343	ASN	C-N-CA	8.82	131.90	120.44
4	R	211	GLU	CA-C-O	8.81	133.11	120.51
5	M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	M	401	ALA	N-CA-CB	8.80	123.06	109.94
5	Y	322	ALA	O-C-N	8.80	131.45	122.12
6	Z	369	GLY	CA-C-N	8.80	132.41	120.44
6	Z	369	GLY	C-N-CA	8.80	132.41	120.44
4	L	415	ASP	O-C-N	8.80	131.45	122.12
5	M	322	ALA	O-C-N	8.80	131.45	122.12
5	S	256	GLU	N-CA-C	-8.80	100.55	111.11
4	F	454	TYR	O-C-N	8.80	134.29	122.59
5	G	401	ALA	N-CA-CB	8.80	123.05	109.94
2	C	7	GLY	N-CA-C	-8.80	92.33	113.18
4	F	250	ASN	CA-C-O	-8.79	109.91	120.55
5	G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	G	381	THR	N-CA-C	8.80	129.25	109.81
6	T	415	LYS	CA-C-N	-8.79	107.14	122.79
6	T	415	LYS	C-N-CA	-8.79	107.14	122.79
1	Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	Q	1343	ASN	C-N-CA	8.79	131.86	120.44
4	R	250	ASN	CA-C-O	-8.78	109.92	120.55
6	Z	474	ILE	N-CA-CB	8.78	122.48	110.54
5	Y	256	GLU	N-CA-C	-8.78	100.58	111.11
4	L	454	TYR	O-C-N	8.77	134.26	122.59
3	P	1480	VAL	CA-C-O	-8.77	111.87	121.17
6	N	415	LYS	CA-C-N	-8.77	107.18	122.79
6	N	415	LYS	C-N-CA	-8.77	107.18	122.79
4	X	250	ASN	CA-C-O	-8.77	109.94	120.55
6	H	369	GLY	CA-C-N	8.77	132.36	120.44
6	H	369	GLY	C-N-CA	8.77	132.36	120.44
6	N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	Z	415	LYS	CA-C-N	-8.77	107.19	122.79
6	Z	415	LYS	C-N-CA	-8.77	107.19	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1480	VAL	CA-C-O	-8.76	111.88	121.17
6	T	474	ILE	N-CA-CB	8.76	122.46	110.54
6	T	369	GLY	CA-C-N	8.76	132.35	120.44
6	T	369	GLY	C-N-CA	8.76	132.35	120.44
4	L	250	ASN	CA-C-O	-8.76	109.95	120.55
4	F	415	ASP	O-C-N	8.76	131.40	122.12
6	H	474	ILE	N-CA-CB	8.76	122.45	110.54
3	D	240	PRO	N-CA-C	-8.73	98.12	111.13
6	N	414	VAL	O-C-N	-8.73	112.84	121.83
6	H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	T	414	VAL	O-C-N	-8.72	112.84	121.83
4	L	464	LYS	O-C-N	8.72	134.19	122.59
4	F	232	THR	CB-CA-C	8.72	124.83	110.88
6	H	413	LEU	O-C-N	-8.72	112.67	122.09
6	N	366	ILE	CB-CA-C	-8.71	100.81	111.97
6	Z	414	VAL	O-C-N	-8.72	112.85	121.83
3	P	240	PRO	N-CA-C	-8.71	98.15	111.13
4	F	447	VAL	CA-C-O	8.71	130.72	121.05
4	X	305	ASP	O-C-N	8.70	130.65	121.42
3	P	1415	GLN	N-CA-C	-8.70	101.92	112.54
5	Y	331	THR	N-CA-C	8.70	125.52	113.16
4	L	232	THR	CB-CA-C	8.69	124.79	110.88
6	H	366	ILE	CB-CA-C	-8.69	100.85	111.97
5	S	338	GLU	CB-CA-C	8.69	123.22	111.14
6	H	414	VAL	O-C-N	-8.69	112.88	121.83
4	X	232	THR	CB-CA-C	8.69	124.78	110.88
6	T	366	ILE	CB-CA-C	-8.69	100.85	111.97
6	H	372	ILE	CA-C-N	8.68	132.44	120.63
6	H	372	ILE	C-N-CA	8.68	132.44	120.63
3	P	1609	ILE	N-CA-CB	8.68	115.97	110.50
6	T	413	LEU	O-C-N	-8.68	112.71	122.09
4	R	232	THR	CB-CA-C	8.67	124.76	110.88
4	R	464	LYS	O-C-N	8.67	134.12	122.59
7	V	1438	ARG	N-CA-C	-8.67	98.02	110.59
6	Z	413	LEU	O-C-N	-8.67	112.72	122.09
7	J	1438	ARG	N-CA-C	-8.67	98.02	110.59
4	X	464	LYS	O-C-N	8.66	134.12	122.59
4	F	464	LYS	O-C-N	8.66	134.11	122.59
5	M	331	THR	N-CA-C	8.66	125.46	113.16
4	X	447	VAL	CA-C-O	8.66	130.66	121.05
3	D	1415	GLN	N-CA-C	-8.66	101.98	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	447	VAL	CA-C-O	8.66	130.66	121.05
4	R	447	VAL	CA-C-O	8.66	130.66	121.05
5	M	338	GLU	CB-CA-C	8.65	123.17	111.14
4	R	305	ASP	O-C-N	8.65	130.59	121.42
5	S	331	THR	N-CA-C	8.65	125.44	113.16
6	N	413	LEU	O-C-N	-8.65	112.75	122.09
5	Y	346	PHE	N-CA-CB	8.64	122.61	110.07
4	L	305	ASP	O-C-N	8.64	130.58	121.42
5	G	338	GLU	CB-CA-C	8.64	123.15	111.14
6	T	372	ILE	CA-C-N	8.64	132.38	120.63
6	T	372	ILE	C-N-CA	8.64	132.38	120.63
3	D	1609	ILE	N-CA-CB	8.64	115.94	110.50
5	Y	338	GLU	CB-CA-C	8.64	123.14	111.14
7	J	156	VAL	CA-C-N	8.63	138.03	121.54
7	J	156	VAL	C-N-CA	8.63	138.03	121.54
6	N	366	ILE	CA-C-O	8.63	130.32	121.17
5	G	331	THR	N-CA-C	8.63	125.41	113.16
4	L	232	THR	N-CA-C	8.62	122.43	108.63
6	Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
4	F	305	ASP	O-C-N	8.62	130.56	121.42
6	Z	366	ILE	CA-C-O	8.62	130.31	121.17
4	R	232	THR	N-CA-C	8.62	122.42	108.63
6	H	403	LEU	N-CA-C	-8.62	102.20	112.89
5	G	346	PHE	N-CA-CB	8.62	122.56	110.07
7	J	1466	TRP	CA-C-N	-8.62	106.19	121.70
7	J	1466	TRP	C-N-CA	-8.62	106.19	121.70
6	Z	403	LEU	N-CA-C	-8.61	102.21	112.89
4	L	452	ARG	CA-C-N	8.61	137.98	121.54
4	L	452	ARG	C-N-CA	8.61	137.98	121.54
6	T	370	GLU	N-CA-CB	8.61	122.55	110.07
4	F	232	THR	N-CA-C	8.61	122.40	108.63
6	N	372	ILE	CA-C-N	8.61	132.33	120.63
6	N	372	ILE	C-N-CA	8.61	132.33	120.63
7	V	156	VAL	CA-C-N	8.61	137.98	121.54
7	V	156	VAL	C-N-CA	8.61	137.98	121.54
4	X	232	THR	N-CA-C	8.61	122.40	108.63
5	S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	T	366	ILE	CA-C-O	8.60	130.29	121.17
2	I	3	THR	CA-C-N	-8.60	108.92	122.08
2	I	3	THR	C-N-CA	-8.60	108.92	122.08
7	V	1466	TRP	CA-C-N	-8.60	106.22	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	V	1466	TRP	C-N-CA	-8.60	106.22	121.70
3	D	1532	ASP	CA-C-N	-8.59	108.09	120.29
3	D	1532	ASP	C-N-CA	-8.59	108.09	120.29
2	O	3	THR	CA-C-N	-8.59	108.93	122.08
2	O	3	THR	C-N-CA	-8.59	108.93	122.08
4	X	452	ARG	CA-C-N	8.59	137.95	121.54
4	X	452	ARG	C-N-CA	8.59	137.95	121.54
4	F	452	ARG	CA-C-N	8.59	137.94	121.54
4	F	452	ARG	C-N-CA	8.59	137.94	121.54
6	N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	Z	372	ILE	CA-C-N	8.59	132.31	120.63
6	Z	372	ILE	C-N-CA	8.59	132.31	120.63
3	P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	U	3	THR	CA-C-N	-8.59	108.94	122.08
2	U	3	THR	C-N-CA	-8.59	108.94	122.08
6	Z	370	GLU	N-CA-CB	8.59	122.52	110.07
5	M	346	PHE	N-CA-CB	8.58	122.51	110.07
4	R	452	ARG	CA-C-N	8.58	137.93	121.54
4	R	452	ARG	C-N-CA	8.58	137.93	121.54
6	H	366	ILE	CA-C-O	8.58	130.26	121.17
3	P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	P	1532	ASP	C-N-CA	-8.57	108.12	120.29
5	G	332	PRO	CA-C-N	8.57	130.55	119.84
5	G	332	PRO	C-N-CA	8.57	130.55	119.84
6	N	405	ASP	N-CA-CB	8.57	122.42	109.91
6	T	405	ASP	N-CA-CB	8.57	122.42	109.91
6	N	403	LEU	N-CA-C	-8.56	102.28	112.89
2	C	3	THR	CA-C-N	-8.56	108.99	122.08
2	C	3	THR	C-N-CA	-8.56	108.99	122.08
6	Z	405	ASP	N-CA-CB	8.56	122.41	109.91
6	H	381	LYS	CA-C-O	-8.56	110.13	119.97
6	H	405	ASP	N-CA-CB	8.55	122.40	109.91
3	D	1536	LEU	O-C-N	-8.55	113.06	122.12
5	S	332	PRO	CA-C-N	8.55	130.53	119.84
5	S	332	PRO	C-N-CA	8.55	130.53	119.84
6	T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	D	1517	SER	CA-C-O	-8.54	111.02	121.02
4	R	489	LYS	N-CA-C	-8.54	101.92	111.82
4	F	489	LYS	N-CA-C	-8.53	101.92	111.82
3	P	1536	LEU	O-C-N	-8.52	113.08	122.12
4	X	489	LYS	N-CA-C	-8.52	101.93	111.82
5	Y	332	PRO	CA-C-N	8.52	130.49	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	332	PRO	C-N-CA	8.52	130.49	119.84
4	R	467	LEU	N-CA-C	8.52	122.78	112.38
4	L	467	LEU	N-CA-C	8.52	122.77	112.38
6	Z	381	LYS	CA-C-O	-8.52	110.18	119.97
5	G	249	PRO	CB-CA-C	8.51	125.60	111.56
5	M	338	GLU	CA-C-N	-8.51	108.62	121.72
5	M	338	GLU	C-N-CA	-8.51	108.62	121.72
3	D	1459	PHE	N-CA-CB	8.49	122.73	110.16
3	D	1536	LEU	CA-C-O	8.49	129.55	120.55
3	P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	D	1510	GLN	O-C-N	8.49	134.76	122.28
5	M	249	PRO	CB-CA-C	8.48	125.56	111.56
5	Y	338	GLU	CA-C-N	-8.48	108.66	121.72
5	Y	338	GLU	C-N-CA	-8.48	108.66	121.72
5	G	338	GLU	CA-C-N	-8.48	108.66	121.72
5	G	338	GLU	C-N-CA	-8.48	108.66	121.72
6	T	381	LYS	CA-C-O	-8.47	110.22	119.97
4	L	489	LYS	N-CA-C	-8.47	101.99	111.82
5	S	253	GLN	CA-C-N	-8.47	109.42	120.44
5	S	253	GLN	C-N-CA	-8.47	109.42	120.44
5	G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	P	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	M	332	PRO	CA-C-N	8.46	130.42	119.84
5	M	332	PRO	C-N-CA	8.46	130.42	119.84
6	N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	Y	253	GLN	C-N-CA	-8.46	109.44	120.44
6	N	408	SER	CA-C-O	-8.46	108.57	120.16
4	X	467	LEU	N-CA-C	8.46	122.70	112.38
6	Z	497	ARG	CB-CA-C	8.46	127.25	110.42
5	S	338	GLU	CA-C-N	-8.45	108.70	121.72
5	S	338	GLU	C-N-CA	-8.45	108.70	121.72
5	Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	M	253	GLN	C-N-CA	-8.45	109.46	120.44
6	H	497	ARG	CB-CA-C	8.44	127.21	110.42
5	S	249	PRO	CB-CA-C	8.44	125.48	111.56
6	Z	408	SER	CA-C-O	-8.43	108.61	120.16
1	A	223	ASN	N-CA-C	-8.43	102.04	111.82
6	T	396	ILE	N-CA-C	-8.43	100.51	111.05
2	I	526	LEU	N-CA-C	8.43	121.60	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	497	ARG	CB-CA-C	8.43	127.20	110.42
4	R	228	GLU	N-CA-C	8.43	120.24	111.14
4	F	467	LEU	N-CA-C	8.42	122.66	112.38
6	N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	P	1685	LEU	N-CA-C	-8.42	98.95	109.64
2	U	526	LEU	N-CA-C	8.42	121.59	111.82
6	H	408	SER	CA-C-O	-8.41	108.64	120.16
1	Q	223	ASN	N-CA-C	-8.41	102.06	111.82
4	R	394	GLU	O-C-N	-8.41	110.86	122.46
6	T	408	SER	CA-C-O	-8.41	108.64	120.16
1	E	223	ASN	N-CA-C	-8.41	102.07	111.82
1	W	223	ASN	N-CA-C	-8.41	102.07	111.82
2	C	8	GLU	O-C-N	8.40	133.15	122.23
2	C	526	LEU	N-CA-C	8.40	121.56	111.82
2	O	526	LEU	N-CA-C	8.39	121.55	111.82
4	X	394	GLU	O-C-N	-8.39	110.88	122.46
4	X	476	HIS	CA-C-O	-8.39	111.66	120.55
6	H	396	ILE	N-CA-C	-8.39	100.57	111.05
1	B	223	ASN	N-CA-C	-8.38	102.09	111.82
6	H	374	SER	N-CA-CB	-8.38	96.83	110.42
1	K	223	ASN	N-CA-C	-8.38	102.09	111.82
3	D	1685	LEU	N-CA-C	-8.38	99.00	109.64
4	F	228	GLU	N-CA-C	8.38	120.19	111.14
4	L	476	HIS	CA-C-O	-8.38	111.67	120.55
6	N	374	SER	N-CA-CB	-8.37	96.86	110.42
4	R	398	LYS	N-CA-CB	8.37	123.98	110.42
6	Z	374	SER	N-CA-CB	-8.37	96.86	110.42
4	L	394	GLU	O-C-N	-8.37	110.91	122.46
4	F	476	HIS	CA-C-O	-8.36	111.68	120.55
1	K	414	SER	CA-C-N	8.36	137.51	121.54
1	K	414	SER	C-N-CA	8.36	137.51	121.54
1	B	414	SER	CA-C-N	8.36	137.51	121.54
1	B	414	SER	C-N-CA	8.36	137.51	121.54
2	U	8	GLU	O-C-N	8.36	133.10	122.23
4	X	228	GLU	N-CA-C	8.36	120.17	111.14
2	I	8	GLU	O-C-N	8.36	133.10	122.23
2	O	8	GLU	O-C-N	8.36	133.09	122.23
5	S	348	ILE	CB-CA-C	8.36	123.75	112.22
4	X	398	LYS	N-CA-CB	8.36	123.96	110.42
1	E	414	SER	CA-C-N	8.35	137.49	121.54
1	E	414	SER	C-N-CA	8.35	137.49	121.54
6	N	396	ILE	N-CA-C	-8.35	100.61	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	476	HIS	CA-C-O	-8.35	111.70	120.55
1	A	414	SER	CA-C-N	8.35	137.48	121.54
1	A	414	SER	C-N-CA	8.35	137.48	121.54
3	P	1519	SER	O-C-N	8.35	133.69	122.59
4	L	398	LYS	N-CA-CB	8.34	123.93	110.42
4	F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	L	228	GLU	N-CA-C	8.34	120.14	111.14
1	Q	414	SER	CA-C-N	8.34	137.47	121.54
1	Q	414	SER	C-N-CA	8.34	137.47	121.54
4	F	394	GLU	O-C-N	-8.34	110.96	122.46
6	Z	396	ILE	N-CA-C	-8.34	100.63	111.05
6	Z	385	ASP	CA-C-N	-8.33	107.64	120.31
6	Z	385	ASP	C-N-CA	-8.33	107.64	120.31
1	W	414	SER	CA-C-N	8.33	137.45	121.54
1	W	414	SER	C-N-CA	8.33	137.45	121.54
6	N	385	ASP	CA-C-N	-8.33	107.65	120.31
6	N	385	ASP	C-N-CA	-8.33	107.65	120.31
5	M	348	ILE	CB-CA-C	8.33	123.71	112.22
3	D	1519	SER	O-C-N	8.32	133.66	122.59
5	G	348	ILE	CB-CA-C	8.31	123.69	112.22
4	F	433	GLU	CB-CA-C	-8.31	94.72	110.67
4	L	228	GLU	CA-C-N	8.30	131.51	121.38
4	L	228	GLU	C-N-CA	8.30	131.51	121.38
4	X	433	GLU	CB-CA-C	-8.30	94.73	110.67
6	T	374	SER	N-CA-CB	-8.30	96.97	110.42
3	P	1515	TYR	O-C-N	8.30	130.62	122.07
5	Y	348	ILE	CB-CA-C	8.29	123.67	112.22
3	D	1521	TYR	CA-C-N	-8.29	109.17	120.28
3	D	1521	TYR	C-N-CA	-8.29	109.17	120.28
5	G	366	GLU	CB-CA-C	-8.29	94.75	110.67
4	L	433	GLU	CB-CA-C	-8.29	94.75	110.67
6	H	418	SER	CB-CA-C	8.29	124.10	110.92
4	X	455	ILE	CB-CA-C	-8.29	97.70	111.29
4	R	228	GLU	CA-C-N	8.29	131.49	121.38
4	R	228	GLU	C-N-CA	8.29	131.49	121.38
4	R	266	GLU	CA-C-N	-8.29	108.24	120.75
4	R	266	GLU	C-N-CA	-8.29	108.24	120.75
6	Z	341	SER	CA-C-O	8.28	129.76	120.90
6	H	385	ASP	CA-C-N	-8.28	107.72	120.31
6	H	385	ASP	C-N-CA	-8.28	107.72	120.31
6	N	418	SER	CB-CA-C	8.28	124.09	110.92
6	T	341	SER	CA-C-O	8.28	129.76	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	460	LEU	N-CA-C	8.28	122.35	111.75
2	C	234	LEU	N-CA-C	-8.28	87.83	111.00
5	Y	373	THR	N-CA-CB	8.28	122.41	110.16
4	R	455	ILE	CB-CA-C	-8.28	97.72	111.29
2	U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	I	234	LEU	N-CA-C	-8.27	87.83	111.00
2	O	234	LEU	N-CA-C	-8.27	87.84	111.00
6	Z	418	SER	CB-CA-C	8.27	124.07	110.92
4	F	228	GLU	CA-C-N	8.27	131.47	121.38
4	F	228	GLU	C-N-CA	8.27	131.47	121.38
5	S	373	THR	N-CA-CB	8.27	122.40	110.16
6	T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	T	385	ASP	C-N-CA	-8.27	107.74	120.31
5	Y	366	GLU	CB-CA-C	-8.27	94.79	110.67
6	N	341	SER	CA-C-O	8.27	129.74	120.90
4	L	266	GLU	CA-C-N	-8.26	108.27	120.75
4	L	266	GLU	C-N-CA	-8.26	108.27	120.75
4	R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	H	341	SER	CA-C-O	8.26	129.73	120.90
6	T	418	SER	CB-CA-C	8.26	124.05	110.92
3	P	1521	TYR	CA-C-N	-8.26	109.22	120.28
3	P	1521	TYR	C-N-CA	-8.26	109.22	120.28
3	P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	P	1550	LEU	C-N-CA	-8.26	109.22	120.28
4	X	460	LEU	N-CA-C	8.26	122.32	111.75
4	F	485	LEU	O-C-N	-8.25	109.21	122.41
4	L	460	LEU	N-CA-C	8.25	122.31	111.75
5	M	373	THR	N-CA-CB	8.25	122.37	110.16
3	D	1515	TYR	O-C-N	8.25	130.56	122.07
4	F	455	ILE	CB-CA-C	-8.24	97.77	111.29
4	L	455	ILE	CB-CA-C	-8.24	97.77	111.29
4	X	266	GLU	CA-C-N	-8.24	108.30	120.75
4	X	266	GLU	C-N-CA	-8.24	108.30	120.75
5	M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	X	228	GLU	CA-C-N	8.24	131.44	121.38
4	X	228	GLU	C-N-CA	8.24	131.44	121.38
5	S	366	GLU	CB-CA-C	-8.24	94.85	110.67
4	X	485	LEU	O-C-N	-8.23	109.24	122.41
5	G	373	THR	N-CA-CB	8.23	122.34	110.16
3	P	1508	LYS	O-C-N	8.23	133.53	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	485	LEU	O-C-N	-8.22	109.25	122.41
4	F	266	GLU	CA-C-N	-8.22	108.33	120.75
4	F	266	GLU	C-N-CA	-8.22	108.33	120.75
4	R	460	LEU	N-CA-C	8.22	122.27	111.75
4	R	485	LEU	O-C-N	-8.22	109.26	122.41
6	H	363	ARG	N-CA-C	8.22	120.97	111.11
6	T	363	ARG	N-CA-C	8.22	120.97	111.11
6	Z	363	ARG	N-CA-C	8.20	120.95	111.11
4	R	397	ARG	N-CA-C	-8.20	102.43	111.36
6	N	363	ARG	N-CA-C	8.19	120.94	111.11
4	X	422	ASN	N-CA-C	-8.19	97.94	111.37
4	F	397	ARG	N-CA-C	-8.19	102.44	111.36
6	N	385	ASP	O-C-N	8.19	130.50	122.07
6	N	404	GLU	CA-C-N	8.19	131.46	120.65
6	N	404	GLU	C-N-CA	8.19	131.46	120.65
4	X	397	ARG	N-CA-C	-8.19	102.44	111.36
4	F	422	ASN	N-CA-C	-8.18	97.95	111.37
6	H	385	ASP	O-C-N	8.17	130.49	122.07
4	L	397	ARG	N-CA-C	-8.17	102.45	111.36
6	H	404	GLU	CA-C-N	8.17	131.43	120.65
6	H	404	GLU	C-N-CA	8.17	131.43	120.65
3	D	1508	LYS	O-C-N	8.16	133.45	122.59
6	T	404	GLU	CA-C-N	8.16	131.42	120.65
6	T	404	GLU	C-N-CA	8.16	131.42	120.65
5	S	339	TYR	N-CA-C	8.15	120.84	107.23
5	M	339	TYR	N-CA-C	8.15	120.84	107.23
4	L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	Z	404	GLU	CA-C-N	8.15	131.41	120.65
6	Z	404	GLU	C-N-CA	8.15	131.41	120.65
4	R	422	ASN	N-CA-C	-8.14	98.01	111.37
3	D	1547	LEU	CA-C-N	-8.14	109.37	120.44
3	D	1547	LEU	C-N-CA	-8.14	109.37	120.44
6	Z	385	ASP	O-C-N	8.14	130.46	122.07
4	X	461	ARG	O-C-N	-8.13	111.77	122.59
5	M	270	GLU	N-CA-C	-8.13	102.50	111.36
5	Y	339	TYR	N-CA-C	8.13	120.80	107.23
4	F	461	ARG	O-C-N	-8.12	111.79	122.59
3	P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	P	1547	LEU	C-N-CA	-8.12	109.40	120.44
5	G	261	PHE	N-CA-C	-8.12	102.43	111.28
4	X	348	GLN	CA-C-N	-8.12	108.77	120.29
4	X	348	GLN	C-N-CA	-8.12	108.77	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	376	ASN	N-CA-C	-8.11	102.44	111.28
5	G	339	TYR	N-CA-C	8.10	120.76	107.23
5	S	270	GLU	N-CA-C	-8.10	102.53	111.36
5	Y	270	GLU	N-CA-C	-8.10	102.53	111.36
4	L	461	ARG	O-C-N	-8.09	111.83	122.59
5	S	261	PHE	N-CA-C	-8.09	102.46	111.28
4	X	403	ILE	N-CA-C	8.09	126.17	109.34
6	N	391	GLN	N-CA-C	-8.09	102.41	111.71
4	F	403	ILE	N-CA-C	8.09	126.16	109.34
4	R	403	ILE	N-CA-C	8.09	126.16	109.34
4	R	461	ARG	O-C-N	-8.08	111.84	122.59
5	Y	261	PHE	N-CA-C	-8.08	102.47	111.28
4	R	348	GLN	CA-C-N	-8.08	108.82	120.29
4	R	348	GLN	C-N-CA	-8.08	108.82	120.29
6	T	385	ASP	O-C-N	8.07	130.39	122.07
5	G	270	GLU	N-CA-C	-8.07	102.56	111.36
6	T	391	GLN	N-CA-C	-8.06	102.44	111.71
3	P	657	PRO	CA-C-N	8.06	131.89	120.28
3	P	657	PRO	C-N-CA	8.06	131.89	120.28
4	L	403	ILE	N-CA-C	8.06	126.11	109.34
4	L	348	GLN	CA-C-N	-8.06	108.85	120.29
4	L	348	GLN	C-N-CA	-8.06	108.85	120.29
7	J	479	LYS	CA-C-N	-8.06	111.60	122.72
7	J	479	LYS	C-N-CA	-8.06	111.60	122.72
5	G	376	ASN	N-CA-C	-8.05	102.50	111.28
4	F	237	GLN	N-CA-C	8.05	122.69	109.24
4	X	237	GLN	N-CA-C	8.05	122.69	109.24
6	Z	391	GLN	N-CA-C	-8.05	102.45	111.71
4	R	143	GLN	N-CA-C	-8.05	103.03	113.17
7	V	479	LYS	CA-C-N	-8.04	111.62	122.72
7	V	479	LYS	C-N-CA	-8.04	111.62	122.72
6	H	391	GLN	N-CA-C	-8.04	102.46	111.71
5	M	261	PHE	N-CA-C	-8.03	102.53	111.28
4	R	237	GLN	N-CA-C	8.03	122.65	109.24
3	D	657	PRO	CA-C-N	8.03	131.84	120.28
3	D	657	PRO	C-N-CA	8.03	131.84	120.28
3	P	1537	GLN	N-CA-C	8.03	120.11	111.36
4	F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	F	299	ASN	N-CA-C	-8.02	92.09	109.81
4	F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	R	132	ASP	N-CA-CB	-8.02	97.86	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	299	ASN	N-CA-C	-8.01	92.10	109.81
4	L	143	GLN	N-CA-C	-8.01	103.08	113.17
7	V	1466	TRP	N-CA-C	8.01	127.86	110.80
3	D	1537	GLN	N-CA-C	8.01	120.09	111.36
4	L	237	GLN	N-CA-C	8.01	122.61	109.24
5	M	376	ASN	N-CA-C	-8.01	102.55	111.28
4	R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	X	132	ASP	N-CA-CB	-8.00	97.88	110.28
4	X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	X	143	GLN	N-CA-C	-8.00	103.09	113.17
5	Y	379	HIS	N-CA-C	8.00	127.84	110.80
5	G	379	HIS	N-CA-C	7.99	127.83	110.80
7	J	1466	TRP	N-CA-C	7.99	127.83	110.80
4	L	132	ASP	N-CA-CB	-7.99	97.89	110.28
5	S	379	HIS	N-CA-C	7.99	127.81	110.80
3	D	1531	GLU	CA-C-O	-7.98	109.83	119.49
4	F	132	ASP	N-CA-CB	-7.98	97.91	110.28
4	L	401	TYR	CA-C-O	7.98	131.92	120.51
4	F	212	SER	N-CA-C	-7.98	102.53	111.07
5	M	379	HIS	N-CA-C	7.98	127.79	110.80
4	F	487	ASP	CA-C-O	7.96	129.12	119.49
4	X	212	SER	N-CA-C	-7.96	102.55	111.07
4	X	487	ASP	CA-C-O	7.96	129.12	119.49
2	C	809	ALA	N-CA-C	-7.96	102.59	111.82
4	L	212	SER	N-CA-C	-7.96	102.56	111.07
3	P	1531	GLU	CA-C-O	-7.96	109.86	119.49
4	F	483	ASP	N-CA-C	7.96	121.93	111.75
5	S	352	GLN	CB-CA-C	-7.96	97.58	110.79
3	D	1504	VAL	N-CA-CB	7.95	123.03	110.54
4	L	487	ASP	CA-C-O	7.95	129.11	119.49
5	M	352	GLN	CB-CA-C	-7.95	97.59	110.79
7	J	1465	GLU	CA-C-O	-7.95	109.45	119.31
6	N	407	LEU	N-CA-CB	7.95	123.58	110.39
2	U	809	ALA	N-CA-C	-7.95	102.60	111.82
5	G	352	GLN	CB-CA-C	-7.95	97.60	110.79
7	V	1465	GLU	CA-C-O	-7.95	109.46	119.31
4	R	401	TYR	CA-C-O	7.94	131.87	120.51
6	Z	407	LEU	N-CA-CB	7.94	123.58	110.39
5	Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
3	D	1448	MET	CA-C-N	7.93	136.69	121.54
3	D	1448	MET	C-N-CA	7.93	136.69	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	1503	ILE	N-CA-C	-7.93	102.54	110.62
3	P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	R	320	GLU	CB-CA-C	7.92	125.63	109.55
6	T	407	LEU	N-CA-CB	7.92	123.54	110.39
4	X	401	TYR	CA-C-O	7.92	131.84	120.51
3	D	1521	TYR	O-C-N	7.92	131.18	122.15
4	F	320	GLU	CB-CA-C	7.92	125.62	109.55
5	S	324	ILE	CB-CA-C	-7.92	93.80	111.77
4	R	455	ILE	O-C-N	-7.92	112.67	122.57
4	F	401	TYR	CA-C-O	7.92	131.83	120.51
2	I	809	ALA	N-CA-C	-7.91	102.64	111.82
3	P	1448	MET	CA-C-N	7.91	136.65	121.54
3	P	1448	MET	C-N-CA	7.91	136.65	121.54
4	R	487	ASP	CA-C-O	7.91	129.06	119.49
5	M	324	ILE	CB-CA-C	-7.91	93.81	111.77
4	R	330	PHE	N-CA-C	7.91	121.05	111.40
5	G	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	O	809	ALA	N-CA-C	-7.91	102.65	111.82
4	R	212	SER	N-CA-C	-7.91	102.61	111.07
4	F	330	PHE	N-CA-C	7.90	121.04	111.40
4	F	455	ILE	O-C-N	-7.90	112.69	122.57
5	Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
6	H	407	LEU	N-CA-CB	7.89	123.50	110.39
4	R	483	ASP	N-CA-C	7.89	121.85	111.75
4	X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	X	483	ASP	N-CA-C	7.89	121.85	111.75
4	L	330	PHE	N-CA-C	7.88	121.02	111.40
4	L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	F	260	THR	N-CA-C	-7.87	103.66	113.18
4	L	260	THR	N-CA-C	-7.87	103.66	113.18
4	X	455	ILE	O-C-N	-7.87	112.74	122.57
4	L	483	ASP	N-CA-C	7.86	121.81	111.75
3	P	1521	TYR	O-C-N	7.86	131.11	122.15
3	D	1503	ILE	N-CA-C	-7.86	102.61	110.62
7	V	1440	VAL	CA-C-N	-7.85	107.25	121.62
7	V	1440	VAL	C-N-CA	-7.85	107.25	121.62
7	J	1440	VAL	CA-C-N	-7.85	107.25	121.62
7	J	1440	VAL	C-N-CA	-7.85	107.25	121.62
6	N	498	LYS	N-CA-CB	7.85	122.31	110.22
4	X	330	PHE	N-CA-C	7.85	120.97	111.40
4	R	215	LYS	N-CA-CB	-7.83	98.58	110.33
6	Z	498	LYS	N-CA-CB	7.83	122.28	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	215	LYS	N-CA-CB	-7.83	98.58	110.33
4	L	455	ILE	O-C-N	-7.83	112.78	122.57
4	R	260	THR	N-CA-C	-7.82	103.72	113.18
6	N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	H	498	LYS	N-CA-CB	7.81	122.25	110.22
2	I	217	ASP	N-CA-C	-7.81	103.64	113.01
7	J	159	ALA	N-CA-C	-7.81	97.17	109.50
6	T	498	LYS	N-CA-CB	7.81	122.24	110.22
5	Y	361	ARG	CA-C-O	-7.81	112.14	120.42
5	Y	323	GLU	N-CA-C	7.81	120.88	111.82
6	H	415	LYS	N-CA-CB	7.80	121.89	110.57
5	M	323	GLU	N-CA-C	7.80	120.87	111.82
4	X	215	LYS	N-CA-CB	-7.80	98.63	110.33
2	C	217	ASP	N-CA-C	-7.80	103.65	113.01
4	F	215	LYS	N-CA-CB	-7.80	98.64	110.33
7	V	492	THR	N-CA-C	-7.80	102.78	111.82
6	T	415	LYS	N-CA-CB	7.79	121.87	110.57
2	U	217	ASP	N-CA-C	-7.79	103.66	113.01
4	X	448	ARG	CA-C-N	-7.79	106.66	121.54
4	X	448	ARG	C-N-CA	-7.79	106.66	121.54
7	V	159	ALA	N-CA-C	-7.79	97.20	109.50
5	S	323	GLU	N-CA-C	7.78	120.85	111.82
4	X	260	THR	N-CA-C	-7.78	103.76	113.18
7	J	492	THR	N-CA-C	-7.78	102.80	111.82
4	X	428	LYS	CA-C-N	-7.78	111.46	119.94
4	X	428	LYS	C-N-CA	-7.78	111.46	119.94
5	M	361	ARG	CA-C-O	-7.78	112.18	120.42
4	R	428	LYS	CA-C-N	-7.77	111.47	119.94
4	R	428	LYS	C-N-CA	-7.77	111.47	119.94
2	O	486	ARG	N-CA-C	-7.77	102.81	111.28
6	Z	415	LYS	N-CA-CB	7.77	121.84	110.57
2	I	486	ARG	N-CA-C	-7.77	102.81	111.28
4	L	448	ARG	CA-C-N	-7.76	106.72	121.54
4	L	448	ARG	C-N-CA	-7.76	106.72	121.54
5	G	361	ARG	CA-C-O	-7.76	112.19	120.42
2	U	341	ALA	N-CA-C	7.76	120.72	111.33
4	R	448	ARG	CA-C-N	-7.75	106.73	121.54
4	R	448	ARG	C-N-CA	-7.75	106.73	121.54
2	O	217	ASP	N-CA-C	-7.75	103.71	113.01
2	O	341	ALA	N-CA-C	7.75	120.70	111.33
4	L	428	LYS	CA-C-N	-7.74	111.50	119.94
4	L	428	LYS	C-N-CA	-7.74	111.50	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	F	428	LYS	C-N-CA	-7.74	111.50	119.94
2	I	341	ALA	N-CA-C	7.74	120.70	111.33
5	S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	L	213	LEU	CA-C-N	7.73	130.64	120.28
4	L	213	LEU	C-N-CA	7.73	130.64	120.28
2	C	341	ALA	N-CA-C	7.73	120.68	111.33
5	G	323	GLU	N-CA-C	7.73	120.79	111.82
6	Z	410	LEU	CA-C-N	7.73	136.30	121.54
6	Z	410	LEU	C-N-CA	7.73	136.30	121.54
2	C	486	ARG	N-CA-C	-7.72	102.86	111.28
2	U	486	ARG	N-CA-C	-7.72	102.86	111.28
4	R	207	GLN	O-C-N	7.71	132.26	122.23
3	P	400	LEU	N-CA-CB	7.71	121.16	109.91
3	D	400	LEU	N-CA-CB	7.70	121.15	109.91
6	N	410	LEU	CA-C-N	7.70	136.24	121.54
6	N	410	LEU	C-N-CA	7.70	136.24	121.54
4	L	207	GLN	O-C-N	7.70	132.24	122.23
4	X	213	LEU	CA-C-N	7.69	130.59	120.28
4	X	213	LEU	C-N-CA	7.69	130.59	120.28
4	R	405	ALA	CA-C-N	7.69	131.60	120.38
4	R	405	ALA	C-N-CA	7.69	131.60	120.38
6	T	410	LEU	CA-C-N	7.69	136.22	121.54
6	T	410	LEU	C-N-CA	7.69	136.22	121.54
4	X	207	GLN	O-C-N	7.69	132.22	122.23
6	H	410	LEU	CA-C-N	7.68	136.21	121.54
6	H	410	LEU	C-N-CA	7.68	136.21	121.54
5	G	327	ARG	N-CA-C	7.68	127.16	110.80
4	F	207	GLN	O-C-N	7.68	132.21	122.23
6	T	366	ILE	N-CA-C	-7.67	103.05	110.42
5	S	347	ARG	N-CA-C	-7.67	103.18	112.54
6	Z	366	ILE	N-CA-C	-7.67	103.06	110.42
4	F	213	LEU	CA-C-N	7.67	130.56	120.28
4	F	213	LEU	C-N-CA	7.67	130.56	120.28
4	F	405	ALA	CA-C-N	7.67	131.58	120.38
4	F	405	ALA	C-N-CA	7.67	131.58	120.38
4	L	405	ALA	CA-C-N	7.67	131.58	120.38
4	L	405	ALA	C-N-CA	7.67	131.58	120.38
4	L	426	GLN	CA-C-O	-7.67	112.29	120.42
6	H	366	ILE	N-CA-C	-7.67	103.06	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	162	VAL	N-CA-C	-7.67	97.41	108.53
5	G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	R	213	LEU	CA-C-N	7.66	130.55	120.28
4	R	213	LEU	C-N-CA	7.66	130.55	120.28
4	R	492	GLU	N-CA-CB	7.66	123.44	110.49
4	X	405	ALA	CA-C-N	7.66	131.57	120.38
4	X	405	ALA	C-N-CA	7.66	131.57	120.38
5	Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	S	327	ARG	N-CA-C	7.66	127.11	110.80
7	V	157	GLU	N-CA-CB	7.66	123.43	110.49
4	X	426	GLN	CA-C-O	-7.66	112.30	120.42
6	Z	377	ARG	CA-C-N	-7.66	107.93	120.72
6	Z	377	ARG	C-N-CA	-7.66	107.93	120.72
7	J	1219	MET	N-CA-C	-7.66	102.94	111.28
5	Y	347	ARG	N-CA-C	-7.66	103.20	112.54
5	G	343	ALA	CA-C-N	7.65	136.16	121.54
5	G	343	ALA	C-N-CA	7.65	136.16	121.54
3	D	1534	ARG	CA-C-N	7.65	130.53	120.28
3	D	1534	ARG	C-N-CA	7.65	130.53	120.28
6	N	366	ILE	N-CA-C	-7.65	103.08	110.42
4	X	492	GLU	N-CA-CB	7.65	123.42	110.49
7	J	157	GLU	N-CA-CB	7.65	123.42	110.49
7	V	162	VAL	N-CA-C	-7.65	97.44	108.53
5	S	343	ALA	CA-C-N	7.65	136.14	121.54
5	S	343	ALA	C-N-CA	7.65	136.14	121.54
7	V	1219	MET	N-CA-C	-7.65	102.95	111.28
4	F	492	GLU	N-CA-CB	7.64	123.41	110.49
5	M	327	ARG	N-CA-C	7.64	127.08	110.80
6	T	377	ARG	CA-C-N	-7.64	107.96	120.72
6	T	377	ARG	C-N-CA	-7.64	107.96	120.72
3	P	1534	ARG	CA-C-N	7.64	130.52	120.28
3	P	1534	ARG	C-N-CA	7.64	130.52	120.28
6	Z	473	GLN	N-CA-CB	7.63	121.08	110.01
4	F	426	GLN	CA-C-O	-7.63	112.33	120.42
6	T	473	GLN	N-CA-CB	7.63	121.07	110.01
5	Y	343	ALA	CA-C-N	7.63	136.11	121.54
5	Y	343	ALA	C-N-CA	7.63	136.11	121.54
4	L	492	GLU	N-CA-CB	7.63	123.38	110.49
6	N	377	ARG	CA-C-N	-7.63	107.98	120.72
6	N	377	ARG	C-N-CA	-7.63	107.98	120.72
5	M	343	ALA	CA-C-N	7.62	136.10	121.54
5	M	343	ALA	C-N-CA	7.62	136.10	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	466	ASP	CA-C-N	7.62	131.25	120.28
6	T	466	ASP	C-N-CA	7.62	131.25	120.28
5	M	347	ARG	N-CA-C	-7.62	103.24	112.54
4	R	444	PHE	CA-C-O	7.62	128.62	120.55
6	H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	Y	366	GLU	N-CA-C	7.61	120.65	111.82
4	L	444	PHE	CA-C-O	7.61	128.62	120.55
6	N	473	GLN	N-CA-CB	7.61	121.05	110.01
6	N	404	GLU	N-CA-C	7.61	121.05	111.69
3	D	1687	GLY	N-CA-C	-7.61	103.60	112.73
6	T	404	GLU	N-CA-C	7.60	121.04	111.69
4	R	426	GLN	CA-C-O	-7.60	112.37	120.42
4	F	328	VAL	N-CA-CB	-7.59	102.96	112.15
6	H	468	SER	N-CA-CB	7.59	122.78	110.40
7	J	161	CYS	N-CA-C	7.59	121.86	109.94
7	V	161	CYS	N-CA-C	7.59	121.86	109.94
3	D	1510	GLN	CA-C-O	7.59	129.26	120.00
3	D	1544	PRO	CA-C-O	7.59	131.57	120.56
5	G	366	GLU	N-CA-C	7.59	120.62	111.82
5	M	366	GLU	N-CA-C	7.59	120.62	111.82
4	F	444	PHE	CA-C-O	7.58	128.59	120.55
6	H	473	GLN	N-CA-CB	7.58	121.01	110.01
4	R	328	VAL	N-CA-CB	-7.58	102.97	112.15
2	C	455	VAL	N-CA-C	-7.58	89.76	111.00
4	F	475	SER	N-CA-CB	7.58	121.27	110.12
6	H	404	GLU	N-CA-C	7.58	121.02	111.69
3	P	1544	PRO	CA-C-O	7.58	131.55	120.56
6	N	466	ASP	CA-C-N	7.58	131.20	120.28
6	N	466	ASP	C-N-CA	7.58	131.20	120.28
6	T	468	SER	N-CA-CB	7.58	122.75	110.40
4	L	328	VAL	N-CA-CB	-7.58	102.98	112.15
4	R	475	SER	N-CA-CB	7.58	121.26	110.12
6	Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	Z	466	ASP	C-N-CA	7.57	131.19	120.28
4	X	475	SER	N-CA-CB	7.57	121.25	110.12
5	S	366	GLU	N-CA-C	7.57	120.60	111.82
2	O	455	VAL	N-CA-C	-7.57	89.82	111.00
4	F	236	ASP	N-CA-CB	7.56	122.11	110.46
2	I	455	VAL	N-CA-C	-7.56	89.82	111.00
4	X	444	PHE	CA-C-O	7.56	128.57	120.55
4	L	457	ALA	CA-C-N	-7.56	107.10	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	457	ALA	C-N-CA	-7.56	107.10	121.54
6	N	468	SER	N-CA-CB	7.56	122.73	110.40
1	W	395	GLY	CA-C-N	7.56	135.98	121.54
1	W	395	GLY	C-N-CA	7.56	135.98	121.54
3	P	1687	GLY	N-CA-C	-7.56	103.66	112.73
2	U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	X	457	ALA	CA-C-N	-7.56	107.10	121.54
4	X	457	ALA	C-N-CA	-7.56	107.10	121.54
6	H	466	ASP	CA-C-N	7.56	131.16	120.28
6	H	466	ASP	C-N-CA	7.56	131.16	120.28
4	L	475	SER	N-CA-CB	7.55	121.23	110.12
4	R	236	ASP	N-CA-CB	7.55	122.09	110.46
4	R	457	ALA	CA-C-N	-7.55	107.11	121.54
4	R	457	ALA	C-N-CA	-7.55	107.11	121.54
1	B	395	GLY	CA-C-N	7.55	135.96	121.54
1	B	395	GLY	C-N-CA	7.55	135.96	121.54
6	Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	E	395	GLY	CA-C-N	7.54	135.95	121.54
1	E	395	GLY	C-N-CA	7.54	135.95	121.54
4	F	457	ALA	CA-C-N	-7.54	107.13	121.54
4	F	457	ALA	C-N-CA	-7.54	107.13	121.54
4	L	236	ASP	N-CA-CB	7.54	122.08	110.46
4	L	320	GLU	N-CA-CB	7.54	122.21	110.44
4	X	236	ASP	N-CA-CB	7.54	122.08	110.46
1	Q	395	GLY	CA-C-N	7.54	135.94	121.54
1	Q	395	GLY	C-N-CA	7.54	135.94	121.54
4	X	328	VAL	N-CA-CB	-7.53	103.04	112.15
1	K	395	GLY	CA-C-N	7.53	135.92	121.54
1	K	395	GLY	C-N-CA	7.53	135.92	121.54
1	W	235	LEU	N-CA-C	7.52	120.80	108.99
6	H	428	GLU	CA-C-N	-7.51	107.87	121.62
6	H	428	GLU	C-N-CA	-7.51	107.87	121.62
1	K	235	LEU	N-CA-C	7.51	120.78	108.99
6	Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	Z	413	LEU	C-N-CA	7.51	131.08	120.42
1	A	395	GLY	CA-C-N	7.51	135.88	121.54
1	A	395	GLY	C-N-CA	7.51	135.88	121.54
3	D	1540	LEU	N-CA-C	7.51	119.54	111.36
4	F	343	MET	CB-CA-C	-7.50	98.09	110.85
6	T	413	LEU	CA-C-N	7.50	131.07	120.42
6	T	413	LEU	C-N-CA	7.50	131.07	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	343	MET	CB-CA-C	-7.50	98.10	110.85
6	Z	428	GLU	CA-C-N	-7.50	107.90	121.62
6	Z	428	GLU	C-N-CA	-7.50	107.90	121.62
6	H	413	LEU	CA-C-N	7.49	131.06	120.42
6	H	413	LEU	C-N-CA	7.49	131.06	120.42
4	F	320	GLU	N-CA-CB	7.49	122.12	110.44
1	Q	235	LEU	N-CA-C	7.49	120.75	108.99
6	N	413	LEU	CA-C-N	7.49	131.05	120.42
6	N	413	LEU	C-N-CA	7.49	131.05	120.42
1	A	235	LEU	N-CA-C	7.48	120.74	108.99
3	P	1540	LEU	N-CA-C	7.48	119.52	111.36
4	X	391	ILE	N-CA-CB	7.48	120.72	110.54
4	R	343	MET	CB-CA-C	-7.48	98.13	110.85
6	T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	T	428	GLU	C-N-CA	-7.48	107.93	121.62
1	B	235	LEU	N-CA-C	7.47	120.72	108.99
1	W	398	ALA	N-CA-C	7.47	119.06	111.07
6	N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	N	428	GLU	C-N-CA	-7.47	107.95	121.62
4	L	407	GLU	N-CA-C	7.47	119.42	111.28
4	R	407	GLU	N-CA-C	7.47	119.42	111.28
4	X	320	GLU	N-CA-CB	7.47	122.09	110.44
4	X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	F	391	ILE	N-CA-CB	7.46	120.69	110.54
1	A	398	ALA	N-CA-C	7.46	119.06	111.07
1	B	398	ALA	N-CA-C	7.46	119.05	111.07
4	R	468	LYS	CA-C-N	-7.46	108.97	120.31
4	R	468	LYS	C-N-CA	-7.46	108.97	120.31
4	R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	R	320	GLU	N-CA-CB	7.45	122.07	110.44
2	C	214	GLU	N-CA-C	7.45	119.04	111.07
1	E	235	LEU	N-CA-C	7.45	120.68	108.99
1	Q	398	ALA	N-CA-C	7.45	119.04	111.07
7	J	157	GLU	N-CA-C	-7.45	94.94	110.80
5	Y	380	ILE	N-CA-C	7.45	119.19	109.58
6	H	412	GLU	N-CA-CB	7.44	121.75	110.14
2	U	214	GLU	N-CA-C	7.44	119.03	111.07
1	K	398	ALA	N-CA-C	7.44	119.03	111.07
4	X	433	GLU	CA-C-N	-7.44	110.32	120.44
4	X	433	GLU	C-N-CA	-7.44	110.32	120.44
2	O	214	GLU	N-CA-C	7.44	119.03	111.07
7	V	157	GLU	N-CA-C	-7.44	94.96	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	433	GLU	CA-C-N	-7.43	110.33	120.44
4	L	433	GLU	C-N-CA	-7.43	110.33	120.44
1	E	398	ALA	N-CA-C	7.43	119.02	111.07
4	L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	L	468	LYS	C-N-CA	-7.42	109.02	120.31
5	G	254	ASP	N-CA-C	7.42	119.01	111.07
6	N	412	GLU	N-CA-CB	7.42	121.72	110.14
2	I	214	GLU	N-CA-C	7.42	119.01	111.07
4	L	391	ILE	N-CA-CB	7.42	120.63	110.54
5	M	380	ILE	N-CA-C	7.42	119.15	109.58
5	M	254	ASP	N-CA-C	7.42	119.00	111.07
2	U	233	VAL	N-CA-CB	7.42	123.47	111.23
1	E	1233	VAL	CA-C-N	-7.41	112.67	123.05
1	E	1233	VAL	C-N-CA	-7.41	112.67	123.05
6	T	412	GLU	N-CA-CB	7.41	121.70	110.14
3	P	1484	ASP	N-CA-C	-7.41	103.20	111.28
1	W	1233	VAL	CA-C-N	-7.41	112.67	123.05
1	W	1233	VAL	C-N-CA	-7.41	112.67	123.05
4	F	407	GLU	N-CA-C	7.41	119.35	111.28
4	R	306	PRO	CA-C-N	7.41	130.94	120.42
4	R	306	PRO	C-N-CA	7.41	130.94	120.42
4	X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	X	468	LYS	C-N-CA	-7.40	109.06	120.31
3	D	1484	ASP	N-CA-C	-7.40	103.21	111.28
3	P	1544	PRO	CA-C-N	-7.40	112.57	119.82
3	P	1544	PRO	C-N-CA	-7.40	112.57	119.82
2	I	233	VAL	N-CA-CB	7.40	123.44	111.23
4	L	306	PRO	CA-C-N	7.40	130.92	120.42
4	L	306	PRO	C-N-CA	7.40	130.92	120.42
4	X	407	GLU	N-CA-C	7.40	119.34	111.28
4	R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	P	729	PRO	N-CA-C	-7.39	101.68	110.70
4	F	306	PRO	CA-C-N	7.39	130.91	120.42
4	F	306	PRO	C-N-CA	7.39	130.91	120.42
3	D	1509	GLN	O-C-N	7.39	130.57	122.15
2	O	233	VAL	N-CA-CB	7.39	123.42	111.23
4	F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	F	468	LYS	C-N-CA	-7.39	109.08	120.31
1	K	1233	VAL	CA-C-N	-7.39	112.71	123.05
1	K	1233	VAL	C-N-CA	-7.39	112.71	123.05
5	S	380	ILE	N-CA-C	7.39	119.11	109.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	F	433	GLU	C-N-CA	-7.38	110.40	120.44
6	H	406	LEU	CA-C-N	-7.38	108.39	120.72
6	H	406	LEU	C-N-CA	-7.38	108.39	120.72
2	C	233	VAL	N-CA-CB	7.38	123.41	111.23
4	X	306	PRO	CA-C-N	7.38	130.90	120.42
4	X	306	PRO	C-N-CA	7.38	130.90	120.42
3	D	729	PRO	N-CA-C	-7.38	101.70	110.70
7	J	930	PRO	N-CA-C	7.38	123.10	114.03
3	D	1544	PRO	CA-C-N	-7.37	112.59	119.82
3	D	1544	PRO	C-N-CA	-7.37	112.59	119.82
1	Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	S	254	ASP	N-CA-C	7.37	118.96	111.07
5	Y	390	GLN	N-CA-C	-7.37	103.27	111.82
6	Z	412	GLU	N-CA-CB	7.37	121.64	110.14
6	N	490	GLN	CA-C-O	7.37	127.87	119.18
6	T	406	LEU	CA-C-N	-7.37	108.42	120.72
6	T	406	LEU	C-N-CA	-7.37	108.42	120.72
4	F	453	TYR	CA-C-N	-7.36	107.48	121.54
4	F	453	TYR	C-N-CA	-7.36	107.48	121.54
5	Y	254	ASP	N-CA-C	7.36	118.95	111.07
3	D	1490	GLU	CA-C-O	7.36	131.03	120.51
4	F	231	LYS	CA-C-O	-7.36	112.80	121.11
4	L	231	LYS	CA-C-O	-7.35	112.76	120.70
4	R	341	ASP	CB-CA-C	7.35	124.78	110.67
7	V	930	PRO	N-CA-C	7.35	123.07	114.03
6	N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	P	1490	GLU	CA-C-O	7.35	131.02	120.51
2	C	4	GLU	CA-C-N	-7.34	107.02	121.41
2	C	4	GLU	C-N-CA	-7.34	107.02	121.41
3	D	524	PRO	N-CA-C	-7.34	103.32	113.53
3	P	1478	MET	CA-C-N	-7.34	110.44	120.28
3	P	1478	MET	C-N-CA	-7.34	110.44	120.28
1	E	120	ASP	CB-CA-C	-7.34	108.11	116.63
4	L	398	LYS	CB-CA-C	-7.34	96.16	110.11
4	F	229	GLY	CA-C-O	7.34	127.87	121.19
2	I	4	GLU	CA-C-N	-7.34	107.03	121.41
2	I	4	GLU	C-N-CA	-7.34	107.03	121.41
2	O	4	GLU	CA-C-N	-7.34	107.03	121.41
2	O	4	GLU	C-N-CA	-7.34	107.03	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	390	GLN	N-CA-C	-7.33	103.31	111.82
4	R	231	LYS	CA-C-O	-7.33	112.82	121.11
4	X	453	TYR	CA-C-N	-7.33	107.53	121.54
4	X	453	TYR	C-N-CA	-7.33	107.53	121.54
5	G	253	GLN	O-C-N	7.33	131.76	122.23
4	L	341	ASP	CB-CA-C	7.33	124.75	110.67
4	R	453	TYR	CA-C-N	-7.33	107.54	121.54
4	R	453	TYR	C-N-CA	-7.33	107.54	121.54
5	S	253	GLN	O-C-N	7.33	131.76	122.23
3	P	1509	GLN	O-C-N	7.33	130.51	122.15
4	F	398	LYS	CB-CA-C	-7.33	96.19	110.11
4	L	453	TYR	CA-C-N	-7.33	107.54	121.54
4	L	453	TYR	C-N-CA	-7.33	107.54	121.54
5	S	390	GLN	N-CA-C	-7.33	103.32	111.82
2	U	4	GLU	CA-C-N	-7.33	107.05	121.41
2	U	4	GLU	C-N-CA	-7.33	107.05	121.41
4	X	229	GLY	CA-C-O	7.33	127.86	121.19
6	Z	490	GLN	CA-C-O	7.33	127.83	119.18
5	Y	345	TYR	O-C-N	-7.33	113.26	122.27
6	Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	Z	406	LEU	C-N-CA	-7.33	108.49	120.72
3	D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	D	1478	MET	C-N-CA	-7.32	110.47	120.28
3	P	524	PRO	N-CA-C	-7.32	103.35	113.53
5	M	390	GLN	N-CA-C	-7.32	103.33	111.82
4	F	341	ASP	CB-CA-C	7.32	124.72	110.67
6	H	490	GLN	CA-C-O	7.32	127.81	119.18
4	X	231	LYS	CA-C-O	-7.32	112.84	121.11
5	M	344	ASP	CB-CA-C	7.31	124.97	110.42
6	N	384	LEU	CB-CA-C	-7.31	98.65	110.79
1	Q	120	ASP	CB-CA-C	-7.31	108.15	116.63
4	R	229	GLY	CA-C-O	7.31	127.84	121.19
6	T	384	LEU	CB-CA-C	-7.31	98.66	110.79
6	Z	349	ARG	CB-CA-C	-7.31	97.11	110.63
6	T	349	ARG	CB-CA-C	-7.31	97.11	110.63
5	M	345	TYR	O-C-N	-7.31	113.28	122.27
6	T	490	GLN	CA-C-O	7.31	127.80	119.18
4	L	391	ILE	O-C-N	-7.30	114.79	121.87
6	N	349	ARG	CB-CA-C	-7.30	97.12	110.63
5	Y	253	GLN	O-C-N	7.30	131.72	122.23
6	Z	384	LEU	CB-CA-C	-7.30	98.66	110.79
6	H	384	LEU	CB-CA-C	-7.30	98.68	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	398	LYS	CB-CA-C	-7.30	96.24	110.11
6	H	349	ARG	CB-CA-C	-7.30	97.13	110.63
2	I	704	SER	N-CA-C	-7.30	104.33	113.23
4	L	229	GLY	CA-C-O	7.29	127.83	121.19
1	W	120	ASP	CB-CA-C	-7.29	108.17	116.63
4	X	341	ASP	CB-CA-C	7.29	124.68	110.67
1	A	120	ASP	CB-CA-C	-7.29	108.17	116.63
1	K	120	ASP	CB-CA-C	-7.29	108.17	116.63
4	L	231	LYS	CA-C-N	7.29	134.47	122.07
4	L	231	LYS	C-N-CA	7.29	134.47	122.07
4	X	398	LYS	CB-CA-C	-7.29	96.25	110.11
5	G	345	TYR	O-C-N	-7.29	113.31	122.27
2	O	704	SER	N-CA-C	-7.29	104.34	113.23
1	Q	828	ILE	CA-C-N	7.29	131.53	120.82
1	Q	828	ILE	C-N-CA	7.29	131.53	120.82
1	B	120	ASP	CB-CA-C	-7.28	108.18	116.63
1	E	828	ILE	CA-C-N	7.28	131.53	120.82
1	E	828	ILE	C-N-CA	7.28	131.53	120.82
5	G	344	ASP	CB-CA-C	7.28	124.91	110.42
6	N	497	ARG	CA-C-N	7.28	130.77	120.28
6	N	497	ARG	C-N-CA	7.28	130.77	120.28
5	S	345	TYR	O-C-N	-7.28	113.31	122.27
5	G	322	ALA	CA-C-N	7.28	131.38	120.31
5	G	322	ALA	C-N-CA	7.28	131.38	120.31
5	S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	G	302	GLN	N-CA-CB	7.28	120.62	110.07
2	O	484	ARG	N-CA-CB	-7.28	98.13	110.50
3	P	207	GLY	N-CA-C	-7.28	105.28	113.79
5	M	253	GLN	O-C-N	7.27	131.69	122.23
5	Y	344	ASP	CB-CA-C	7.27	124.89	110.42
2	C	484	ARG	N-CA-CB	-7.27	98.14	110.50
1	K	828	ILE	CA-C-N	7.27	131.50	120.82
1	K	828	ILE	C-N-CA	7.27	131.50	120.82
2	C	704	SER	N-CA-C	-7.27	104.37	113.23
2	O	807	THR	N-CA-C	-7.27	102.84	112.72
6	Z	497	ARG	CA-C-N	7.26	130.74	120.28
6	Z	497	ARG	C-N-CA	7.26	130.74	120.28
1	A	828	ILE	CA-C-N	7.26	131.50	120.82
1	A	828	ILE	C-N-CA	7.26	131.50	120.82
3	P	1469	ILE	O-C-N	7.26	129.03	121.91
6	T	476	LYS	N-CA-C	7.26	118.84	111.07
4	X	429	GLY	CA-C-N	-7.26	110.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	429	GLY	C-N-CA	-7.26	110.56	120.44
2	I	484	ARG	N-CA-CB	-7.26	98.16	110.50
2	U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	Y	345	TYR	CA-C-N	7.26	130.31	120.44
5	Y	345	TYR	C-N-CA	7.26	130.31	120.44
1	B	828	ILE	CA-C-N	7.25	131.48	120.82
1	B	828	ILE	C-N-CA	7.25	131.48	120.82
3	D	207	GLY	N-CA-C	-7.25	105.30	113.79
5	M	302	GLN	N-CA-CB	7.25	120.59	110.07
5	S	302	GLN	N-CA-CB	7.25	120.59	110.07
1	W	828	ILE	CA-C-N	7.25	131.48	120.82
1	W	828	ILE	C-N-CA	7.25	131.48	120.82
4	F	391	ILE	O-C-N	-7.25	114.84	121.87
5	G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	G	368	GLU	C-N-CA	-7.25	109.29	120.31
5	M	322	ALA	CA-C-N	7.25	131.33	120.31
5	M	322	ALA	C-N-CA	7.25	131.33	120.31
5	G	380	ILE	O-C-N	-7.25	114.95	122.63
5	Y	368	GLU	CA-C-N	-7.25	109.30	120.31
5	Y	368	GLU	C-N-CA	-7.25	109.30	120.31
6	Z	476	LYS	N-CA-C	7.25	118.82	111.07
5	M	368	GLU	CA-C-N	-7.24	109.30	120.31
5	M	368	GLU	C-N-CA	-7.24	109.30	120.31
6	H	497	ARG	CA-C-N	7.24	130.71	120.28
6	H	497	ARG	C-N-CA	7.24	130.71	120.28
4	L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	L	429	GLY	C-N-CA	-7.24	110.59	120.44
2	C	8	GLU	N-CA-CB	7.24	120.99	110.20
6	N	476	LYS	N-CA-C	7.24	118.81	111.07
4	R	231	LYS	CA-C-N	7.24	134.37	122.07
4	R	231	LYS	C-N-CA	7.24	134.37	122.07
2	U	704	SER	N-CA-C	-7.24	104.40	113.23
5	S	322	ALA	CA-C-N	7.24	131.31	120.31
5	S	322	ALA	C-N-CA	7.24	131.31	120.31
6	T	387	LYS	N-CA-C	7.24	119.17	111.28
2	U	807	THR	N-CA-C	-7.24	102.88	112.72
7	J	1481	LEU	N-CA-C	7.23	122.51	112.45
2	C	807	THR	N-CA-C	-7.23	102.88	112.72
3	D	1469	ILE	O-C-N	7.23	129.00	121.91
7	J	194	LEU	N-CA-C	-7.23	103.48	111.36
5	S	374	GLN	N-CA-C	-7.23	103.43	111.82
4	X	231	LYS	CA-C-N	7.23	134.36	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	231	LYS	C-N-CA	7.23	134.36	122.07
4	F	231	LYS	CA-C-N	7.23	134.36	122.07
4	F	231	LYS	C-N-CA	7.23	134.36	122.07
2	I	807	THR	N-CA-C	-7.23	102.89	112.72
6	H	476	LYS	N-CA-C	7.23	118.80	111.07
6	T	497	ARG	CA-C-N	7.23	130.69	120.28
6	T	497	ARG	C-N-CA	7.23	130.69	120.28
2	O	8	GLU	N-CA-CB	7.22	120.97	110.20
4	R	391	ILE	O-C-N	-7.22	114.86	121.87
5	Y	302	GLN	N-CA-CB	7.22	120.55	110.07
5	Y	374	GLN	N-CA-C	-7.22	103.44	111.82
6	N	406	LEU	CB-CA-C	-7.22	97.94	110.72
5	Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	Y	322	ALA	C-N-CA	7.22	131.29	120.31
4	F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	U	8	GLU	N-CA-CB	7.22	120.96	110.20
2	I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	S	368	GLU	C-N-CA	-7.22	109.34	120.31
7	V	194	LEU	N-CA-C	-7.22	103.49	111.36
6	H	387	LYS	N-CA-C	7.22	119.15	111.28
6	Z	387	LYS	N-CA-C	7.21	119.14	111.28
2	C	355	TYR	N-CA-C	-7.20	103.36	111.07
3	D	191	SER	N-CA-C	-7.20	101.26	110.19
5	G	374	GLN	N-CA-C	-7.20	103.47	111.82
4	R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	R	429	GLY	C-N-CA	-7.20	110.65	120.44
4	X	391	ILE	O-C-N	-7.20	114.89	121.87
3	P	191	SER	N-CA-C	-7.20	101.27	110.19
5	S	345	TYR	CA-C-N	7.20	130.22	120.44
5	S	345	TYR	C-N-CA	7.20	130.22	120.44
5	G	345	TYR	CA-C-N	7.19	130.22	120.44
5	G	345	TYR	C-N-CA	7.19	130.22	120.44
6	T	406	LEU	CB-CA-C	-7.19	97.99	110.72
6	Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
6	H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	P	1413	GLY	N-CA-C	-7.19	104.10	112.73
2	I	355	TYR	N-CA-C	-7.18	103.38	111.07
2	U	355	TYR	N-CA-C	-7.17	103.39	111.07
7	V	1481	LEU	N-CA-C	7.17	122.42	112.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	319	LEU	O-C-N	7.17	129.73	122.12
6	H	351	PHE	CA-C-N	7.17	130.22	120.54
6	H	351	PHE	C-N-CA	7.17	130.22	120.54
5	S	264	GLU	CB-CA-C	7.17	122.69	110.79
6	Z	351	PHE	CA-C-N	7.17	130.22	120.54
6	Z	351	PHE	C-N-CA	7.17	130.22	120.54
5	M	345	TYR	CA-C-N	7.17	130.19	120.44
5	M	345	TYR	C-N-CA	7.17	130.19	120.44
6	T	351	PHE	CA-C-N	7.17	130.21	120.54
6	T	351	PHE	C-N-CA	7.17	130.21	120.54
3	P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
4	R	405	ALA	CB-CA-C	-7.16	96.17	110.42
2	C	365	PRO	N-CA-C	-7.16	104.91	113.86
3	P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
4	X	249	PRO	CB-CA-C	-7.16	100.31	112.26
4	F	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	G	272	ILE	CA-C-N	7.15	129.86	120.28
5	G	272	ILE	C-N-CA	7.15	129.86	120.28
2	O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
2	U	365	PRO	N-CA-C	-7.15	104.92	113.86
1	K	1353	CYS	N-CA-C	-7.15	105.39	112.97
2	O	365	PRO	N-CA-C	-7.15	104.92	113.86
5	Y	264	GLU	CB-CA-C	7.15	122.66	110.79
6	N	387	LYS	N-CA-C	7.15	119.07	111.28
1	E	1353	CYS	N-CA-C	-7.15	105.39	112.97
2	I	365	PRO	N-CA-C	-7.15	104.93	113.86
4	X	405	ALA	CB-CA-C	-7.14	96.20	110.42
3	D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	P	1480	VAL	C-N-CA	7.14	129.56	120.56
4	F	208	GLN	CA-C-N	-7.14	110.72	120.28
4	F	208	GLN	C-N-CA	-7.14	110.72	120.28
5	G	319	LEU	O-C-N	7.13	129.68	122.12
5	S	272	ILE	CA-C-N	7.13	129.84	120.28
5	S	272	ILE	C-N-CA	7.13	129.84	120.28
6	T	419	GLY	N-CA-C	-7.13	103.81	113.37
4	R	249	PRO	CB-CA-C	-7.13	100.35	112.26
5	M	264	GLU	CB-CA-C	7.13	122.63	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	419	GLY	N-CA-C	-7.13	103.81	113.37
4	L	405	ALA	CB-CA-C	-7.13	96.23	110.42
6	N	351	PHE	CA-C-N	7.13	130.16	120.54
6	N	351	PHE	C-N-CA	7.13	130.16	120.54
2	O	8	GLU	CA-C-N	7.13	130.16	120.54
2	O	8	GLU	C-N-CA	7.13	130.16	120.54
6	Z	485	LEU	CB-CA-C	-7.13	97.44	110.63
4	F	249	PRO	CB-CA-C	-7.13	100.36	112.26
5	S	319	LEU	O-C-N	7.12	129.67	122.12
2	I	8	GLU	CA-C-O	-7.12	112.33	120.24
4	R	208	GLN	CA-C-N	-7.12	110.73	120.28
4	R	208	GLN	C-N-CA	-7.12	110.73	120.28
4	L	208	GLN	CA-C-N	-7.12	110.74	120.28
4	L	208	GLN	C-N-CA	-7.12	110.74	120.28
5	G	264	GLU	CB-CA-C	7.12	122.61	110.79
4	L	249	PRO	CB-CA-C	-7.12	100.37	112.26
4	R	321	LYS	CA-C-N	-7.12	109.25	121.85
4	R	321	LYS	C-N-CA	-7.12	109.25	121.85
2	O	8	GLU	CA-C-O	-7.11	112.34	120.24
4	X	208	GLN	CA-C-N	-7.11	110.75	120.28
4	X	208	GLN	C-N-CA	-7.11	110.75	120.28
6	T	485	LEU	CB-CA-C	-7.11	97.48	110.63
1	W	1353	CYS	N-CA-C	-7.11	105.43	112.97
4	L	321	LYS	CA-C-N	-7.11	109.27	121.85
4	L	321	LYS	C-N-CA	-7.11	109.27	121.85
6	H	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	P	1485	ALA	N-CA-C	-7.11	95.67	110.80
2	C	8	GLU	CA-C-O	-7.10	112.36	120.24
3	D	1485	ALA	N-CA-C	-7.10	95.67	110.80
6	Z	408	SER	CB-CA-C	-7.10	96.18	110.17
4	X	321	LYS	CA-C-N	-7.10	109.29	121.85
4	X	321	LYS	C-N-CA	-7.10	109.29	121.85
6	H	419	GLY	N-CA-C	-7.10	103.86	113.37
6	H	408	SER	CB-CA-C	-7.09	96.19	110.17
3	P	1546	LEU	CA-C-O	7.09	128.12	120.10
2	I	8	GLU	CA-C-N	7.09	130.12	120.54
2	I	8	GLU	C-N-CA	7.09	130.12	120.54
6	N	485	LEU	CB-CA-C	-7.09	97.51	110.63
2	O	479	LEU	N-CA-C	-7.09	103.59	111.82
5	Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	Y	272	ILE	C-N-CA	7.09	129.78	120.28
6	T	408	SER	CB-CA-C	-7.09	96.21	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	9	LEU	N-CA-C	-7.09	102.61	111.11
2	C	479	LEU	N-CA-C	-7.08	103.60	111.82
5	S	333	PRO	CA-C-N	-7.08	112.22	119.94
5	S	333	PRO	C-N-CA	-7.08	112.22	119.94
5	M	272	ILE	CA-C-N	7.08	129.77	120.28
5	M	272	ILE	C-N-CA	7.08	129.77	120.28
6	N	419	GLY	N-CA-C	-7.08	103.88	113.37
4	F	473	GLY	N-CA-C	-7.08	104.24	112.73
2	U	8	GLU	CA-C-O	-7.08	112.39	120.24
2	U	479	LEU	N-CA-C	-7.07	103.61	111.82
4	L	473	GLY	N-CA-C	-7.07	104.24	112.73
5	Y	341	ALA	N-CA-C	-7.07	94.18	109.81
3	D	1546	LEU	CA-C-O	7.07	128.09	120.10
4	R	473	GLY	N-CA-C	-7.07	104.25	112.73
2	U	8	GLU	CA-C-N	7.07	130.08	120.54
2	U	8	GLU	C-N-CA	7.07	130.08	120.54
2	U	10	LEU	O-C-N	7.07	130.96	122.27
2	C	10	LEU	O-C-N	7.07	130.96	122.27
2	C	301	LEU	CA-C-N	-7.07	112.42	119.56
2	C	301	LEU	C-N-CA	-7.07	112.42	119.56
6	N	408	SER	CB-CA-C	-7.07	96.25	110.17
2	O	10	LEU	O-C-N	7.07	130.96	122.27
5	S	341	ALA	N-CA-C	-7.06	94.20	109.81
5	G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	M	319	LEU	O-C-N	7.06	129.60	122.12
2	I	479	LEU	N-CA-C	-7.06	103.63	111.82
4	X	473	GLY	N-CA-C	-7.05	104.27	112.73
5	Y	274	ARG	CA-C-N	7.05	131.03	120.31
5	Y	274	ARG	C-N-CA	7.05	131.03	120.31
4	F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	F	321	LYS	C-N-CA	-7.05	109.37	121.85
5	M	341	ALA	N-CA-C	-7.05	94.23	109.81
2	O	301	LEU	CA-C-N	-7.04	112.44	119.56
2	O	301	LEU	C-N-CA	-7.04	112.44	119.56
2	I	301	LEU	CA-C-N	-7.04	112.45	119.56
2	I	301	LEU	C-N-CA	-7.04	112.45	119.56
4	F	436	SER	CA-C-N	7.04	129.59	120.44
4	F	436	SER	C-N-CA	7.04	129.59	120.44
4	F	397	ARG	CB-CA-C	-7.04	98.88	110.85
5	G	333	PRO	CA-C-N	-7.04	112.27	119.94
5	G	333	PRO	C-N-CA	-7.04	112.27	119.94
2	U	301	LEU	CA-C-N	-7.04	112.45	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	U	301	LEU	C-N-CA	-7.04	112.45	119.56
4	X	397	ARG	CB-CA-C	-7.04	98.89	110.85
4	R	397	ARG	CB-CA-C	-7.04	98.89	110.85
6	T	473	GLN	CA-C-N	7.04	130.10	120.46
6	T	473	GLN	C-N-CA	7.04	130.10	120.46
5	G	351	GLN	N-CA-C	-7.04	103.66	111.82
4	F	432	ASN	CA-C-N	-7.03	109.62	120.31
4	F	432	ASN	C-N-CA	-7.03	109.62	120.31
4	X	432	ASN	CA-C-N	-7.03	109.62	120.31
4	X	432	ASN	C-N-CA	-7.03	109.62	120.31
2	I	10	LEU	O-C-N	7.03	130.91	122.27
4	L	397	ARG	CB-CA-C	-7.03	98.90	110.85
6	N	473	GLN	CA-C-N	7.03	130.09	120.46
6	N	473	GLN	C-N-CA	7.03	130.09	120.46
4	R	432	ASN	CA-C-N	-7.03	109.63	120.31
4	R	432	ASN	C-N-CA	-7.03	109.63	120.31
5	S	274	ARG	CA-C-N	7.03	130.99	120.31
5	S	274	ARG	C-N-CA	7.03	130.99	120.31
5	Y	333	PRO	CA-C-N	-7.03	112.28	119.94
5	Y	333	PRO	C-N-CA	-7.03	112.28	119.94
2	C	8	GLU	CA-C-N	7.02	130.02	120.54
2	C	8	GLU	C-N-CA	7.02	130.02	120.54
6	Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	Z	473	GLN	C-N-CA	7.02	130.08	120.46
5	G	352	GLN	CA-C-O	7.02	127.99	120.55
4	L	349	THR	N-CA-C	7.02	119.01	111.36
5	G	274	ARG	CA-C-N	7.02	130.97	120.31
5	G	274	ARG	C-N-CA	7.02	130.97	120.31
2	I	9	LEU	N-CA-C	-7.01	102.70	111.11
5	Y	352	GLN	CA-C-O	7.01	127.98	120.55
6	H	473	GLN	CA-C-N	7.00	130.05	120.46
6	H	473	GLN	C-N-CA	7.00	130.05	120.46
2	U	9	LEU	N-CA-C	-7.00	102.71	111.11
4	L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	L	432	ASN	C-N-CA	-7.00	109.67	120.31
5	S	352	GLN	CA-C-O	7.00	127.97	120.55
3	P	1499	LEU	CA-C-O	-7.00	113.47	120.82
6	Z	405	ASP	CA-C-N	-7.00	108.34	122.55
6	Z	405	ASP	C-N-CA	-7.00	108.34	122.55
7	J	114	ASP	N-CA-C	-7.00	101.92	110.88
5	M	274	ARG	CA-C-N	7.00	130.94	120.31
5	M	274	ARG	C-N-CA	7.00	130.94	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	351	GLN	N-CA-C	-7.00	103.70	111.82
3	P	1538	SER	O-C-N	7.00	131.48	122.39
4	L	436	SER	CA-C-N	6.99	129.53	120.44
4	L	436	SER	C-N-CA	6.99	129.53	120.44
6	N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	N	405	ASP	C-N-CA	-6.99	108.36	122.55
5	S	351	GLN	N-CA-C	-6.99	103.71	111.82
5	S	380	ILE	O-C-N	-6.99	114.99	122.61
7	V	114	ASP	N-CA-C	-6.99	101.94	110.88
7	V	708	MET	N-CA-CB	6.98	120.49	110.16
5	Y	398	ALA	N-CA-C	-6.98	103.75	111.36
2	C	9	LEU	N-CA-C	-6.98	102.73	111.11
6	H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	H	405	ASP	C-N-CA	-6.98	108.38	122.55
5	Y	351	GLN	N-CA-C	-6.98	103.72	111.82
4	F	408	GLU	CA-C-N	6.98	130.20	120.29
4	F	408	GLU	C-N-CA	6.98	130.20	120.29
6	T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	G	398	ALA	N-CA-C	-6.97	103.76	111.36
6	N	353	GLN	CB-CA-C	-6.97	99.21	110.79
7	J	708	MET	N-CA-CB	6.97	120.47	110.16
4	L	215	LYS	CB-CA-C	-6.97	95.66	109.67
5	M	352	GLN	CA-C-O	6.97	127.94	120.55
3	D	1552	THR	N-CA-C	6.97	119.90	111.40
3	P	878	PRO	N-CA-C	6.97	126.82	112.47
4	R	436	SER	CA-C-N	6.97	129.50	120.44
4	R	436	SER	C-N-CA	6.97	129.50	120.44
4	X	215	LYS	CB-CA-C	-6.96	95.67	109.67
2	I	214	GLU	CA-C-O	-6.96	113.51	120.82
4	R	349	THR	N-CA-C	6.96	118.95	111.36
6	T	476	LYS	CA-C-N	6.96	130.30	120.42
6	T	476	LYS	C-N-CA	6.96	130.30	120.42
6	T	478	LEU	N-CA-C	-6.96	103.75	111.82
5	M	398	ALA	N-CA-C	-6.96	103.78	111.36
4	X	349	THR	N-CA-C	6.96	118.95	111.36
2	U	214	GLU	CA-C-O	-6.96	113.52	120.82
5	M	380	ILE	O-C-N	-6.96	115.03	122.61
6	H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	T	353	GLN	CB-CA-C	-6.95	99.25	110.79
5	Y	276	SER	CA-C-N	6.95	132.59	123.00
5	Y	276	SER	C-N-CA	6.95	132.59	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	377	ASN	N-CA-C	6.95	125.60	110.80
4	L	408	GLU	CA-C-N	6.95	130.16	120.29
4	L	408	GLU	C-N-CA	6.95	130.16	120.29
6	N	476	LYS	CA-C-N	6.95	130.29	120.42
6	N	476	LYS	C-N-CA	6.95	130.29	120.42
3	D	878	PRO	N-CA-C	6.95	126.78	112.47
5	M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
6	Z	476	LYS	CA-C-N	6.95	130.28	120.42
6	Z	476	LYS	C-N-CA	6.95	130.28	120.42
4	R	408	GLU	CA-C-N	6.94	130.15	120.29
4	R	408	GLU	C-N-CA	6.94	130.15	120.29
6	H	478	LEU	N-CA-C	-6.94	103.77	111.82
4	R	198	LYS	N-CA-C	-6.94	101.37	110.33
5	Y	380	ILE	O-C-N	-6.94	115.04	122.61
3	D	1538	SER	O-C-N	6.94	131.41	122.39
4	F	215	LYS	CB-CA-C	-6.94	95.72	109.67
4	X	436	SER	CA-C-N	6.94	129.46	120.44
4	X	436	SER	C-N-CA	6.94	129.46	120.44
5	S	276	SER	CA-C-N	6.94	132.57	123.00
5	S	276	SER	C-N-CA	6.94	132.57	123.00
4	R	211	GLU	CB-CA-C	6.93	124.22	110.42
4	R	215	LYS	CB-CA-C	-6.93	95.73	109.67
4	F	211	GLU	CB-CA-C	6.93	124.21	110.42
3	P	1530	VAL	CA-C-O	6.93	128.20	120.85
4	X	408	GLU	CA-C-N	6.93	130.13	120.29
4	X	408	GLU	C-N-CA	6.93	130.13	120.29
3	D	740	ARG	N-CA-C	-6.93	103.73	111.28
6	Z	478	LEU	N-CA-C	-6.93	103.78	111.82
3	P	740	ARG	N-CA-C	-6.93	103.73	111.28
4	L	211	GLU	CB-CA-C	6.92	124.20	110.42
3	P	1552	THR	N-CA-C	6.92	119.85	111.40
5	M	377	ASN	N-CA-C	6.92	125.54	110.80
4	F	349	THR	N-CA-C	6.92	118.90	111.36
5	S	377	ASN	N-CA-C	6.92	125.54	110.80
4	X	211	GLU	CB-CA-C	6.92	124.18	110.42
7	J	703	LEU	CA-C-N	6.91	125.86	120.33
7	J	703	LEU	C-N-CA	6.91	125.86	120.33
4	X	198	LYS	N-CA-C	-6.91	101.41	110.33
6	H	476	LYS	CA-C-N	6.91	130.23	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	H	476	LYS	C-N-CA	6.91	130.23	120.42
4	X	407	GLU	N-CA-CB	6.91	120.28	110.12
5	Y	377	ASN	N-CA-C	6.91	125.51	110.80
3	D	1530	VAL	CA-C-O	6.91	128.17	120.85
4	F	198	LYS	N-CA-C	-6.91	101.42	110.33
4	F	399	SER	CB-CA-C	-6.91	96.68	110.42
2	C	214	GLU	CA-C-O	-6.90	113.57	120.82
4	R	399	SER	CB-CA-C	-6.90	96.69	110.42
4	L	399	SER	CB-CA-C	-6.90	96.69	110.42
5	S	398	ALA	N-CA-C	-6.90	103.84	111.36
4	L	198	LYS	N-CA-C	-6.90	101.43	110.33
4	X	399	SER	CB-CA-C	-6.90	96.70	110.42
4	F	407	GLU	N-CA-CB	6.89	120.25	110.12
4	R	482	LYS	O-C-N	-6.89	114.97	122.07
5	M	276	SER	CA-C-N	6.89	132.50	123.00
5	M	276	SER	C-N-CA	6.89	132.50	123.00
4	L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	R	404	GLN	CA-C-O	-6.88	114.05	121.14
4	R	463	ILE	N-CA-C	-6.88	95.03	109.34
5	S	338	GLU	N-CA-CB	6.88	120.97	110.79
4	R	407	GLU	N-CA-CB	6.88	120.23	110.12
3	D	1475	ALA	CA-C-N	-6.88	111.50	120.44
3	D	1475	ALA	C-N-CA	-6.88	111.50	120.44
5	G	276	SER	CA-C-N	6.88	132.49	123.00
5	G	276	SER	C-N-CA	6.88	132.49	123.00
4	L	200	THR	CA-C-N	-6.88	109.60	120.60
4	L	200	THR	C-N-CA	-6.88	109.60	120.60
6	N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	X	391	ILE	CA-C-N	-6.88	109.11	121.14
4	X	391	ILE	C-N-CA	-6.88	109.11	121.14
7	V	703	LEU	CA-C-N	6.87	125.83	120.33
7	V	703	LEU	C-N-CA	6.87	125.83	120.33
4	X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	L	463	ILE	N-CA-C	-6.87	95.05	109.34
5	Y	338	GLU	N-CA-CB	6.87	120.96	110.79
5	G	338	GLU	N-CA-CB	6.87	120.95	110.79
4	F	200	THR	CA-C-N	-6.87	109.61	120.60
4	F	200	THR	C-N-CA	-6.87	109.61	120.60
1	K	234	CYS	N-CA-C	6.86	118.65	111.03
4	R	200	THR	CA-C-N	-6.86	109.62	120.60
4	R	200	THR	C-N-CA	-6.86	109.62	120.60
6	T	470	PRO	O-C-N	-6.86	113.38	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	F	311	GLN	CB-CA-C	-6.86	98.15	110.70
3	P	1475	ALA	CA-C-N	-6.86	111.53	120.44
3	P	1475	ALA	C-N-CA	-6.86	111.53	120.44
5	M	338	GLU	N-CA-CB	6.85	120.93	110.79
6	N	470	PRO	O-C-N	-6.85	113.39	122.64
4	X	200	THR	CA-C-N	-6.85	109.64	120.60
4	X	200	THR	C-N-CA	-6.85	109.64	120.60
2	I	727	VAL	CB-CA-C	-6.85	103.07	112.04
4	R	391	ILE	CA-C-N	-6.85	109.16	121.14
4	R	391	ILE	C-N-CA	-6.85	109.16	121.14
6	Z	409	PRO	CA-C-N	6.84	132.15	120.72
6	Z	409	PRO	C-N-CA	6.84	132.15	120.72
4	L	208	GLN	N-CA-C	-6.84	103.90	111.36
4	X	389	VAL	CA-C-O	6.84	128.03	120.71
2	C	727	VAL	CB-CA-C	-6.83	103.09	112.04
6	H	409	PRO	CA-C-N	6.83	132.13	120.72
6	H	409	PRO	C-N-CA	6.83	132.13	120.72
4	L	391	ILE	CA-C-N	-6.83	109.18	121.14
4	L	391	ILE	C-N-CA	-6.83	109.18	121.14
4	L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	R	311	GLN	CB-CA-C	-6.83	98.19	110.70
1	W	234	CYS	N-CA-C	6.83	118.61	111.03
4	X	208	GLN	N-CA-C	-6.83	103.91	111.36
6	Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	F	404	GLN	CA-C-O	-6.83	114.11	121.14
4	R	208	GLN	N-CA-C	-6.83	103.92	111.36
4	F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	X	311	GLN	CB-CA-C	-6.83	98.20	110.70
6	N	409	PRO	CA-C-N	6.83	132.12	120.72
6	N	409	PRO	C-N-CA	6.83	132.12	120.72
5	Y	378	SER	O-C-N	-6.83	113.51	122.59
1	Q	234	CYS	N-CA-C	6.82	118.61	111.03
4	X	482	LYS	O-C-N	-6.82	115.04	122.07
4	F	208	GLN	N-CA-C	-6.82	103.92	111.36
4	L	389	VAL	CA-C-O	6.82	128.01	120.71
2	U	727	VAL	CB-CA-C	-6.82	103.10	112.04
4	L	492	GLU	CB-CA-C	-6.82	96.86	110.42
2	O	727	VAL	CB-CA-C	-6.82	103.11	112.04
5	M	408	GLU	N-CA-C	-6.81	103.93	111.36
4	X	404	GLN	CA-C-O	-6.81	114.12	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	408	GLU	N-CA-C	-6.81	103.93	111.36
5	M	378	SER	O-C-N	-6.81	113.53	122.59
5	G	378	SER	O-C-N	-6.81	113.53	122.59
5	M	344	ASP	O-C-N	-6.81	113.53	122.59
1	B	234	CYS	N-CA-C	6.81	118.59	111.03
1	E	234	CYS	N-CA-C	6.80	118.58	111.03
4	F	482	LYS	O-C-N	-6.80	115.06	122.07
4	F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	L	208	GLN	O-C-N	6.80	129.91	122.15
5	S	408	GLU	N-CA-C	-6.80	103.94	111.36
5	G	297	ALA	N-CA-C	-6.80	103.95	111.36
7	J	544	CYS	N-CA-C	-6.80	104.86	113.43
4	L	482	LYS	O-C-N	-6.80	115.06	122.07
4	R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	L	311	GLN	CB-CA-C	-6.80	98.26	110.70
5	S	378	SER	O-C-N	-6.80	113.55	122.59
1	A	234	CYS	N-CA-C	6.80	118.58	111.03
6	T	409	PRO	CA-C-N	6.80	132.07	120.72
6	T	409	PRO	C-N-CA	6.80	132.07	120.72
6	H	470	PRO	O-C-N	-6.79	113.47	122.64
1	Q	910	GLN	CA-C-N	6.79	129.77	120.46
1	Q	910	GLN	C-N-CA	6.79	129.77	120.46
5	S	297	ALA	N-CA-C	-6.79	103.95	111.36
4	X	334	LEU	CA-C-N	-6.79	111.61	120.44
4	X	334	LEU	C-N-CA	-6.79	111.61	120.44
1	K	415	LYS	N-CA-CB	6.79	121.97	110.49
3	P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	D	1486	CYS	CA-C-O	6.79	127.75	120.55
5	M	297	ALA	N-CA-C	-6.79	103.96	111.36
1	Q	415	LYS	N-CA-CB	6.78	121.95	110.49
1	E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	W	415	LYS	N-CA-CB	6.78	121.94	110.49
4	F	208	GLN	O-C-N	6.77	129.87	122.15
5	Y	297	ALA	N-CA-C	-6.77	103.98	111.36
5	Y	344	ASP	O-C-N	-6.77	113.58	122.59
2	C	307	GLY	CA-C-N	6.77	134.47	121.54
2	C	307	GLY	C-N-CA	6.77	134.47	121.54
4	L	334	LEU	CA-C-N	-6.77	111.64	120.44
4	L	334	LEU	C-N-CA	-6.77	111.64	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	U	307	GLY	CA-C-N	6.77	134.47	121.54
2	U	307	GLY	C-N-CA	6.77	134.47	121.54
1	E	910	GLN	CA-C-N	6.77	129.73	120.46
1	E	910	GLN	C-N-CA	6.77	129.73	120.46
5	G	344	ASP	O-C-N	-6.77	113.59	122.59
3	P	1483	ARG	O-C-N	6.77	130.59	122.27
3	P	1494	MET	CA-C-N	-6.76	111.24	120.44
3	P	1494	MET	C-N-CA	-6.76	111.24	120.44
1	W	910	GLN	CA-C-N	6.76	129.73	120.46
1	W	910	GLN	C-N-CA	6.76	129.73	120.46
3	D	1494	MET	CA-C-N	-6.76	111.24	120.44
3	D	1494	MET	C-N-CA	-6.76	111.24	120.44
2	I	307	GLY	CA-C-N	6.76	134.46	121.54
2	I	307	GLY	C-N-CA	6.76	134.46	121.54
2	O	307	GLY	CA-C-N	6.76	134.45	121.54
2	O	307	GLY	C-N-CA	6.76	134.45	121.54
4	R	334	LEU	CA-C-N	-6.76	111.65	120.44
4	R	334	LEU	C-N-CA	-6.76	111.65	120.44
5	S	344	ASP	O-C-N	-6.76	113.60	122.59
6	T	357	GLN	CA-C-N	-6.76	109.22	120.30
6	T	357	GLN	C-N-CA	-6.76	109.22	120.30
4	F	465	GLN	CA-C-N	-6.76	109.31	121.14
4	F	465	GLN	C-N-CA	-6.76	109.31	121.14
4	L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	L	465	GLN	C-N-CA	-6.76	109.32	121.14
2	O	485	LEU	N-CA-C	-6.76	96.41	110.80
2	U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	K	910	GLN	CA-C-N	6.75	129.71	120.46
1	K	910	GLN	C-N-CA	6.75	129.71	120.46
2	U	485	LEU	N-CA-C	-6.75	96.41	110.80
4	X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	X	465	GLN	C-N-CA	-6.75	109.32	121.14
1	B	415	LYS	N-CA-CB	6.75	121.90	110.49
4	X	453	TYR	CB-CA-C	-6.75	96.98	110.42
3	D	1515	TYR	N-CA-C	6.75	118.29	111.07
4	R	208	GLN	O-C-N	6.75	129.84	122.15
4	R	465	GLN	CA-C-N	-6.75	109.33	121.14
4	R	465	GLN	C-N-CA	-6.75	109.33	121.14
3	D	1483	ARG	O-C-N	6.75	130.57	122.27
2	U	28	HIS	N-CA-CB	-6.75	99.54	111.08
2	O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	P	1515	TYR	N-CA-C	6.74	118.28	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	453	TYR	CB-CA-C	-6.74	97.00	110.42
7	V	544	CYS	N-CA-C	-6.74	104.93	113.43
2	I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	R	389	VAL	CA-C-O	6.74	127.92	120.71
4	F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	F	334	LEU	C-N-CA	-6.74	111.68	120.44
2	C	485	LEU	N-CA-C	-6.74	96.45	110.80
3	D	626	PRO	N-CA-C	6.74	122.28	113.86
5	Y	344	ASP	N-CA-CB	6.74	121.88	110.49
4	F	453	TYR	CB-CA-C	-6.74	97.02	110.42
2	O	28	HIS	N-CA-CB	-6.74	99.56	111.08
2	I	180	ASN	N-CA-C	-6.73	103.87	111.14
2	C	180	ASN	N-CA-C	-6.73	103.87	111.14
5	Y	321	ASN	CA-C-N	6.73	129.30	120.28
5	Y	321	ASN	C-N-CA	6.73	129.30	120.28
5	G	279	ALA	N-CA-C	-6.73	103.87	111.07
5	Y	279	ALA	N-CA-C	-6.73	103.87	111.07
3	P	1470	ILE	N-CA-C	-6.73	103.96	110.42
4	L	453	TYR	CB-CA-C	-6.72	97.04	110.42
2	O	251	ARG	N-CA-C	6.72	121.85	111.56
2	U	251	ARG	N-CA-C	6.72	121.84	111.56
7	J	831	SER	N-CA-C	-6.72	104.34	112.54
4	X	208	GLN	O-C-N	6.72	129.81	122.15
6	N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	N	349	ARG	CA-C-N	6.71	129.57	120.44
6	N	349	ARG	C-N-CA	6.71	129.57	120.44
2	C	251	ARG	N-CA-C	6.71	121.83	111.56
4	F	389	VAL	CA-C-O	6.71	127.89	120.71
5	S	344	ASP	N-CA-CB	6.71	121.83	110.49
2	I	28	HIS	N-CA-CB	-6.71	99.61	111.08
3	D	1470	ILE	N-CA-C	-6.70	103.98	110.42
1	E	958	ASP	CB-CA-C	-6.70	107.82	115.79
5	G	321	ASN	CA-C-N	6.70	129.26	120.28
5	G	321	ASN	C-N-CA	6.70	129.26	120.28
5	S	321	ASN	CA-C-N	6.70	129.26	120.28
5	S	321	ASN	C-N-CA	6.70	129.26	120.28
7	V	30	SER	CA-C-N	6.70	129.26	120.28
7	V	30	SER	C-N-CA	6.70	129.26	120.28
6	Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	Z	357	GLN	C-N-CA	-6.70	109.31	120.30
2	U	594	LYS	N-CA-C	-6.70	98.86	109.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	349	ARG	CA-C-N	6.69	129.54	120.44
6	Z	349	ARG	C-N-CA	6.69	129.54	120.44
2	C	594	LYS	N-CA-C	-6.69	98.87	109.04
5	G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	S	279	ALA	N-CA-C	-6.69	103.91	111.07
7	V	831	SER	N-CA-C	-6.69	104.38	112.54
2	C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	I	251	ARG	N-CA-C	6.69	121.79	111.56
6	T	349	ARG	CA-C-N	6.69	129.53	120.44
6	T	349	ARG	C-N-CA	6.69	129.53	120.44
4	X	404	GLN	N-CA-CB	6.69	122.66	110.76
3	P	626	PRO	N-CA-C	6.68	122.22	113.86
7	V	96	TYR	N-CA-C	-6.68	104.07	111.82
2	O	6	PHE	CA-C-N	6.68	134.51	121.41
2	O	6	PHE	C-N-CA	6.68	134.51	121.41
5	M	321	ASN	CA-C-N	6.68	129.23	120.28
5	M	321	ASN	C-N-CA	6.68	129.23	120.28
4	X	430	ARG	N-CA-C	6.68	118.35	111.14
2	C	6	PHE	CA-C-N	6.68	134.50	121.41
2	C	6	PHE	C-N-CA	6.68	134.50	121.41
1	Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	O	749	LEU	N-CA-C	-6.67	101.09	110.50
7	J	30	SER	CA-C-N	6.67	129.22	120.28
7	J	30	SER	C-N-CA	6.67	129.22	120.28
2	U	6	PHE	CA-C-N	6.67	134.48	121.41
2	U	6	PHE	C-N-CA	6.67	134.48	121.41
3	D	1471	GLU	CA-C-N	-6.67	111.85	120.65
3	D	1471	GLU	C-N-CA	-6.67	111.85	120.65
3	D	1499	LEU	CA-C-O	-6.67	113.48	120.55
6	T	475	CYS	CA-C-O	-6.67	113.35	120.42
2	U	749	LEU	N-CA-C	-6.67	101.10	110.50
3	D	1451	ARG	CA-C-N	-6.67	111.78	120.44
3	D	1451	ARG	C-N-CA	-6.67	111.78	120.44
2	I	594	LYS	N-CA-C	-6.66	98.91	109.04
1	K	958	ASP	CB-CA-C	-6.66	107.86	115.79
6	T	387	LYS	O-C-N	6.66	129.18	122.12
4	X	462	GLU	O-C-N	-6.66	114.15	122.35
2	C	749	LEU	N-CA-C	-6.66	101.11	110.50
1	W	958	ASP	CB-CA-C	-6.66	107.86	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	475	CYS	CA-C-O	-6.66	113.36	120.42
2	I	749	LEU	N-CA-C	-6.66	101.11	110.50
4	L	462	GLU	O-C-N	-6.66	114.16	122.35
5	M	344	ASP	N-CA-CB	6.66	121.74	110.49
2	O	594	LYS	N-CA-C	-6.66	98.92	109.04
3	P	1471	GLU	CA-C-N	-6.66	111.87	120.65
3	P	1471	GLU	C-N-CA	-6.66	111.87	120.65
4	R	404	GLN	N-CA-CB	6.66	122.61	110.76
3	P	1536	LEU	CA-C-N	-6.65	110.84	120.29
3	P	1536	LEU	C-N-CA	-6.65	110.84	120.29
4	F	221	GLN	N-CA-CB	-6.65	99.25	110.49
2	U	6	PHE	N-CA-CB	-6.65	100.27	110.44
4	L	430	ARG	N-CA-C	6.65	118.32	111.14
2	C	751	ALA	N-CA-C	-6.65	104.12	111.36
4	R	451	GLU	O-C-N	6.65	131.43	122.59
2	I	6	PHE	CA-C-N	6.64	134.43	121.41
2	I	6	PHE	C-N-CA	6.64	134.43	121.41
7	J	96	TYR	N-CA-C	-6.64	104.11	111.82
3	P	1451	ARG	CA-C-N	-6.64	111.80	120.44
3	P	1451	ARG	C-N-CA	-6.64	111.80	120.44
7	V	255	ASP	CA-C-N	6.64	129.72	120.29
7	V	255	ASP	C-N-CA	6.64	129.72	120.29
4	L	404	GLN	N-CA-CB	6.64	122.58	110.76
6	H	349	ARG	CA-C-N	6.64	129.47	120.44
6	H	349	ARG	C-N-CA	6.64	129.47	120.44
2	C	6	PHE	N-CA-CB	-6.64	100.29	110.44
4	F	430	ARG	N-CA-C	6.64	118.31	111.14
4	X	221	GLN	N-CA-CB	-6.63	99.28	110.49
7	J	255	ASP	CA-C-N	6.63	129.70	120.29
7	J	255	ASP	C-N-CA	6.63	129.70	120.29
4	R	221	GLN	N-CA-CB	-6.63	99.29	110.49
4	R	462	GLU	O-C-N	-6.62	114.20	122.35
4	F	404	GLN	N-CA-CB	6.62	122.55	110.76
4	F	462	GLU	O-C-N	-6.62	114.21	122.35
6	N	475	CYS	CA-C-O	-6.62	113.40	120.42
2	O	751	ALA	N-CA-C	-6.62	104.15	111.36
4	X	451	GLU	O-C-N	6.62	131.39	122.59
4	F	451	GLU	O-C-N	6.61	131.38	122.59
6	H	387	LYS	O-C-N	6.61	129.13	122.12
5	G	380	ILE	N-CA-C	6.61	119.15	109.63
7	J	526	ARG	CA-C-N	-6.61	110.31	121.75
7	J	526	ARG	C-N-CA	-6.61	110.31	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	352	LEU	CB-CA-C	6.61	121.39	110.81
4	R	222	THR	N-CA-CB	6.61	121.66	110.49
2	I	6	PHE	N-CA-CB	-6.61	100.33	110.44
6	H	493	ALA	CA-C-O	-6.61	111.50	119.49
2	I	751	ALA	N-CA-C	-6.61	104.16	111.36
4	L	221	GLN	N-CA-CB	-6.61	99.33	110.49
3	D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	D	1536	LEU	C-N-CA	-6.60	110.91	120.29
6	Z	352	LEU	CB-CA-C	6.60	121.38	110.81
2	O	6	PHE	N-CA-CB	-6.60	100.34	110.44
6	N	387	LYS	O-C-N	6.60	129.12	122.12
6	T	335	SER	CA-C-N	6.60	129.41	120.44
6	T	335	SER	C-N-CA	6.60	129.41	120.44
6	T	493	ALA	CA-C-O	-6.59	111.51	119.49
6	Z	335	SER	CA-C-N	6.59	129.41	120.44
6	Z	335	SER	C-N-CA	6.59	129.41	120.44
6	T	352	LEU	CB-CA-C	6.59	121.36	110.81
4	X	429	GLY	O-C-N	6.59	128.51	122.19
6	Z	493	ALA	CA-C-O	-6.59	111.52	119.49
6	H	475	CYS	CA-C-O	-6.58	113.44	120.42
5	M	274	ARG	N-CA-CB	6.58	119.80	110.12
4	R	430	ARG	N-CA-C	6.58	118.25	111.14
5	S	274	ARG	N-CA-CB	6.58	119.79	110.12
2	U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	R	429	GLY	O-C-N	6.58	128.50	122.19
7	V	526	ARG	CA-C-N	-6.58	110.37	121.75
7	V	526	ARG	C-N-CA	-6.58	110.37	121.75
6	H	335	SER	CA-C-N	6.58	129.38	120.44
6	H	335	SER	C-N-CA	6.58	129.38	120.44
4	F	222	THR	N-CA-CB	6.57	121.60	110.49
5	Y	274	ARG	N-CA-CB	6.57	119.78	110.12
4	L	222	THR	N-CA-CB	6.57	121.59	110.49
6	N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	Z	387	LYS	O-C-N	6.57	129.08	122.12
5	G	274	ARG	N-CA-CB	6.56	119.77	110.12
6	N	335	SER	CA-C-N	6.56	129.36	120.44
6	N	335	SER	C-N-CA	6.56	129.36	120.44
4	X	222	THR	N-CA-CB	6.56	121.58	110.49
4	L	451	GLU	O-C-N	6.56	131.31	122.59
2	I	641	LEU	CA-C-N	6.55	129.06	120.28
2	I	641	LEU	C-N-CA	6.55	129.06	120.28
6	H	352	LEU	CB-CA-C	6.55	121.30	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	253	GLN	CA-C-O	6.55	127.51	120.24
3	D	494	LEU	CB-CA-C	-6.55	100.33	110.81
4	X	481	ILE	CA-C-N	-6.55	111.93	120.44
4	X	481	ILE	C-N-CA	-6.55	111.93	120.44
2	I	13	ALA	CA-C-N	6.54	129.34	120.44
2	I	13	ALA	C-N-CA	6.54	129.34	120.44
3	P	494	LEU	CB-CA-C	-6.54	100.34	110.81
5	Y	372	ALA	N-CA-CB	6.54	119.73	110.12
3	D	1493	ARG	N-CA-C	6.54	119.24	111.33
7	J	1217	LYS	N-CA-C	-6.54	103.28	113.02
3	P	1493	ARG	N-CA-C	6.54	119.24	111.33
4	R	481	ILE	CA-C-N	-6.54	111.94	120.44
4	R	481	ILE	C-N-CA	-6.54	111.94	120.44
4	F	486	GLU	CB-CA-C	6.53	121.76	110.79
3	D	870	SER	N-CA-C	-6.53	101.91	110.53
4	F	399	SER	N-CA-CB	-6.53	99.46	110.49
4	F	481	ILE	CA-C-N	-6.53	111.95	120.44
4	F	481	ILE	C-N-CA	-6.53	111.95	120.44
6	Z	373	THR	CA-C-N	-6.53	108.88	121.94
6	Z	373	THR	C-N-CA	-6.53	108.88	121.94
4	L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	X	486	GLU	CB-CA-C	6.53	121.76	110.79
3	P	870	SER	N-CA-C	-6.53	101.92	110.53
6	Z	472	GLN	N-CA-C	-6.53	104.80	112.89
4	R	399	SER	N-CA-CB	-6.52	99.47	110.49
5	M	372	ALA	N-CA-CB	6.52	119.71	110.12
2	U	641	LEU	CA-C-N	6.52	129.02	120.28
2	U	641	LEU	C-N-CA	6.52	129.02	120.28
6	N	407	LEU	CB-CA-C	-6.52	96.68	110.31
6	H	407	LEU	CB-CA-C	-6.52	96.69	110.31
6	N	472	GLN	N-CA-C	-6.52	104.81	112.89
2	U	13	ALA	CA-C-N	6.52	129.31	120.44
2	U	13	ALA	C-N-CA	6.52	129.31	120.44
3	P	240	PRO	CA-C-N	6.52	129.49	120.63
3	P	240	PRO	C-N-CA	6.52	129.49	120.63
6	Z	407	LEU	CB-CA-C	-6.52	96.69	110.31
3	D	240	PRO	CA-C-N	6.51	129.49	120.63
3	D	240	PRO	C-N-CA	6.51	129.49	120.63
6	N	373	THR	CA-C-N	-6.51	108.91	121.94
6	N	373	THR	C-N-CA	-6.51	108.91	121.94
7	V	1217	LYS	N-CA-C	-6.51	103.32	113.02
2	C	13	ALA	CA-C-N	6.51	129.29	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	13	ALA	C-N-CA	6.51	129.29	120.44
4	L	429	GLY	O-C-N	6.51	128.44	122.19
4	L	481	ILE	CA-C-N	-6.51	111.97	120.44
4	L	481	ILE	C-N-CA	-6.51	111.97	120.44
4	R	486	GLU	CB-CA-C	6.51	121.73	110.79
5	G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	H	373	THR	CA-C-N	-6.51	108.92	121.94
6	H	373	THR	C-N-CA	-6.51	108.92	121.94
5	S	346	PHE	CB-CA-C	-6.51	100.62	110.90
4	L	399	SER	N-CA-CB	-6.50	99.50	110.49
6	T	472	GLN	N-CA-C	-6.50	104.82	112.89
4	L	416	THR	N-CA-CB	6.50	119.44	110.01
5	S	372	ALA	N-CA-CB	6.50	119.68	110.12
4	X	399	SER	N-CA-CB	-6.50	99.50	110.49
4	F	199	GLU	N-CA-C	-6.50	104.19	111.28
5	G	346	PHE	CB-CA-C	-6.50	100.64	110.90
4	L	199	GLU	N-CA-C	-6.50	104.20	111.28
4	L	290	PRO	N-CA-C	6.50	128.34	112.10
5	M	346	PHE	CB-CA-C	-6.50	100.64	110.90
2	O	641	LEU	CA-C-N	6.50	128.98	120.28
2	O	641	LEU	C-N-CA	6.50	128.98	120.28
2	C	641	LEU	CA-C-N	6.49	128.98	120.28
2	C	641	LEU	C-N-CA	6.49	128.98	120.28
7	J	708	MET	CB-CA-C	-6.49	99.82	110.85
4	X	290	PRO	N-CA-C	6.49	128.32	112.10
2	C	755	ILE	N-CA-C	-6.49	104.01	110.62
4	F	290	PRO	N-CA-C	6.48	128.31	112.10
7	J	1226	GLN	CB-CA-C	-6.48	100.70	110.88
2	U	755	ILE	N-CA-C	-6.48	104.01	110.62
4	X	199	GLU	N-CA-C	-6.48	104.21	111.28
6	T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	F	416	THR	N-CA-CB	6.48	119.40	110.01
6	N	420	THR	CA-C-O	-6.48	113.56	120.42
2	O	13	ALA	CA-C-N	6.48	129.25	120.44
2	O	13	ALA	C-N-CA	6.48	129.25	120.44
4	R	290	PRO	N-CA-C	6.48	128.29	112.10
7	V	1226	GLN	CB-CA-C	-6.47	100.71	110.88
3	P	1484	ASP	CA-C-N	6.47	133.90	121.54
3	P	1484	ASP	C-N-CA	6.47	133.90	121.54
5	M	333	PRO	O-C-N	-6.47	113.90	122.64
6	H	472	GLN	N-CA-C	-6.47	104.87	112.89
7	V	708	MET	CB-CA-C	-6.47	99.86	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	R	396	GLN	O-C-N	-6.46	115.11	122.09
3	D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	D	1484	ASP	C-N-CA	6.46	133.88	121.54
4	F	396	GLN	O-C-N	-6.46	115.11	122.09
4	F	235	ASP	O-C-N	-6.46	115.17	122.08
4	R	416	THR	N-CA-CB	6.46	119.38	110.01
6	T	420	THR	CA-C-O	-6.46	113.57	120.42
6	H	370	GLU	N-CA-C	-6.46	104.17	111.14
6	N	370	GLU	N-CA-C	-6.45	104.17	111.14
6	T	373	THR	CA-C-N	-6.45	109.03	121.94
6	T	373	THR	C-N-CA	-6.45	109.03	121.94
4	X	416	THR	N-CA-CB	6.45	119.37	110.01
6	H	420	THR	CA-C-O	-6.45	113.58	120.42
3	D	1529	LEU	CA-C-N	-6.45	111.27	120.42
3	D	1529	LEU	C-N-CA	-6.45	111.27	120.42
4	F	429	GLY	O-C-N	6.44	128.38	122.19
5	Y	253	GLN	CA-C-O	6.44	127.39	120.24
6	Z	420	THR	CA-C-O	-6.44	113.59	120.42
2	I	755	ILE	N-CA-C	-6.43	104.06	110.62
4	R	199	GLU	N-CA-C	-6.43	104.27	111.28
4	X	235	ASP	O-C-N	-6.43	115.20	122.08
4	R	328	VAL	O-C-N	-6.43	114.81	122.66
4	X	328	VAL	O-C-N	-6.43	114.82	122.66
4	F	471	GLN	CA-C-O	-6.43	113.61	120.42
5	G	253	GLN	CA-C-O	6.43	127.37	120.24
4	L	328	VAL	O-C-N	-6.43	114.82	122.66
3	P	1529	LEU	CA-C-N	-6.43	111.29	120.42
3	P	1529	LEU	C-N-CA	-6.43	111.29	120.42
5	M	275	MET	CA-C-N	6.42	133.81	121.54
5	M	275	MET	C-N-CA	6.42	133.81	121.54
6	Z	370	GLU	N-CA-C	-6.42	104.20	111.14
5	S	253	GLN	CA-C-O	6.42	127.37	120.24
4	X	471	GLN	CA-C-O	-6.42	113.62	120.42
5	S	275	MET	CA-C-N	6.42	133.79	121.54
5	S	275	MET	C-N-CA	6.42	133.79	121.54
1	B	829	ARG	N-CA-C	6.41	118.58	110.24
6	T	373	THR	N-CA-C	-6.41	103.91	111.03
7	J	161	CYS	CB-CA-C	-6.41	98.78	112.63
4	L	247	ARG	CA-C-N	-6.41	106.15	121.80
4	L	247	ARG	C-N-CA	-6.41	106.15	121.80
4	F	247	ARG	CA-C-N	-6.41	106.16	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	247	ARG	C-N-CA	-6.41	106.16	121.80
4	X	396	GLN	O-C-N	-6.41	115.17	122.09
7	J	426	THR	N-CA-C	6.41	119.08	111.33
2	O	755	ILE	N-CA-C	-6.41	104.09	110.62
4	X	247	ARG	CA-C-N	-6.41	106.17	121.80
4	X	247	ARG	C-N-CA	-6.41	106.17	121.80
5	Y	333	PRO	O-C-N	-6.41	113.99	122.64
4	F	267	GLN	CA-C-N	6.40	128.76	120.44
4	F	267	GLN	C-N-CA	6.40	128.76	120.44
3	P	1411	GLY	N-CA-C	-6.40	102.54	112.85
4	X	449	SER	N-CA-C	6.40	124.44	110.80
5	G	275	MET	CA-C-N	6.40	133.77	121.54
5	G	275	MET	C-N-CA	6.40	133.77	121.54
2	U	176	SER	N-CA-C	-6.40	104.73	112.54
5	Y	275	MET	CA-C-N	6.40	133.77	121.54
5	Y	275	MET	C-N-CA	6.40	133.77	121.54
4	L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	L	235	ASP	O-C-N	-6.40	115.24	122.08
4	R	247	ARG	CA-C-N	-6.39	106.20	121.80
4	R	247	ARG	C-N-CA	-6.39	106.20	121.80
4	R	449	SER	N-CA-C	6.39	124.42	110.80
6	T	370	GLU	N-CA-C	-6.39	104.23	111.14
7	V	161	CYS	CB-CA-C	-6.39	98.82	112.63
3	D	1543	GLN	CA-C-O	6.39	128.92	120.16
6	H	445	LYS	O-C-N	6.39	128.90	122.12
6	N	378	GLU	N-CA-C	-6.39	104.74	112.54
1	W	829	ARG	N-CA-C	6.39	118.55	110.24
1	K	829	ARG	N-CA-C	6.39	118.54	110.24
4	L	449	SER	N-CA-C	6.39	124.40	110.80
5	M	248	PRO	CA-C-N	6.39	127.82	119.84
5	M	248	PRO	C-N-CA	6.39	127.82	119.84
4	F	461	ARG	N-CA-CB	6.38	121.28	110.49
2	I	808	ASN	N-CA-C	-6.38	106.20	112.97
6	N	445	LYS	O-C-N	6.38	128.89	122.12
4	R	235	ASP	O-C-N	-6.38	115.25	122.08
6	Z	486	GLN	CA-C-N	6.38	128.83	120.28
6	Z	486	GLN	C-N-CA	6.38	128.83	120.28
2	I	176	SER	N-CA-C	-6.38	104.75	112.54
1	E	829	ARG	N-CA-C	6.38	118.54	110.24
4	R	471	GLN	CA-C-O	-6.38	113.66	120.42
7	V	426	THR	N-CA-C	6.38	119.05	111.33
4	X	461	ARG	N-CA-CB	6.38	121.28	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	373	THR	N-CA-C	-6.38	103.95	111.03
5	G	333	PRO	O-C-N	-6.38	114.03	122.64
2	C	808	ASN	N-CA-C	-6.38	106.21	112.97
4	L	461	ARG	N-CA-CB	6.38	121.27	110.49
3	D	1541	THR	N-CA-C	6.38	122.22	113.16
7	J	159	ALA	CA-C-O	-6.38	113.65	121.11
3	P	1543	GLN	CA-C-O	6.38	128.90	120.16
4	X	234	PRO	N-CA-C	6.38	125.60	112.47
4	F	449	SER	N-CA-C	6.37	124.38	110.80
5	S	333	PRO	O-C-N	-6.37	114.04	122.64
4	L	396	GLN	O-C-N	-6.37	115.21	122.09
3	D	1411	GLY	N-CA-C	-6.37	102.59	112.85
3	P	1539	LEU	CA-C-O	6.37	127.30	120.10
3	P	1541	THR	N-CA-C	6.37	122.20	113.16
1	Q	829	ARG	N-CA-C	6.37	118.52	110.24
3	D	1539	LEU	CA-C-O	6.37	127.30	120.10
2	O	808	ASN	N-CA-C	-6.37	106.22	112.97
4	R	207	GLN	N-CA-CB	-6.37	100.72	110.20
7	V	1539	THR	CA-C-N	-6.36	112.94	122.74
7	V	1539	THR	C-N-CA	-6.36	112.94	122.74
5	G	248	PRO	CA-C-N	6.36	127.79	119.84
5	G	248	PRO	C-N-CA	6.36	127.79	119.84
2	C	176	SER	N-CA-C	-6.36	104.78	112.54
5	G	349	LEU	N-CA-CB	6.36	120.14	110.28
6	H	373	THR	N-CA-C	-6.36	103.97	111.03
6	N	486	GLN	CA-C-N	6.36	128.80	120.28
6	N	486	GLN	C-N-CA	6.36	128.80	120.28
6	T	445	LYS	O-C-N	6.36	128.86	122.12
4	X	267	GLN	CA-C-N	6.36	128.71	120.44
4	X	267	GLN	C-N-CA	6.36	128.71	120.44
4	R	234	PRO	N-CA-C	6.36	125.57	112.47
1	A	829	ARG	N-CA-C	6.36	118.50	110.24
4	L	267	GLN	CA-C-N	6.36	128.71	120.44
4	L	267	GLN	C-N-CA	6.36	128.71	120.44
4	R	461	ARG	N-CA-CB	6.36	121.23	110.49
7	V	159	ALA	CA-C-O	-6.36	113.67	121.11
3	D	1548	LYS	CA-C-N	-6.36	110.65	120.31
3	D	1548	LYS	C-N-CA	-6.36	110.65	120.31
4	R	269	ASN	CA-C-N	-6.36	111.39	120.42
4	R	269	ASN	C-N-CA	-6.36	111.39	120.42
2	O	176	SER	N-CA-C	-6.35	104.79	112.54
3	P	1548	LYS	CA-C-N	-6.35	110.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	1548	LYS	C-N-CA	-6.35	110.66	120.31
4	R	267	GLN	CA-C-N	6.35	128.70	120.44
4	R	267	GLN	C-N-CA	6.35	128.70	120.44
5	S	248	PRO	CA-C-N	6.35	127.78	119.84
5	S	248	PRO	C-N-CA	6.35	127.78	119.84
6	N	373	THR	N-CA-C	-6.35	103.98	111.03
4	X	269	ASN	CA-C-N	-6.35	111.40	120.42
4	X	269	ASN	C-N-CA	-6.35	111.40	120.42
7	J	1539	THR	CA-C-N	-6.35	112.97	122.74
7	J	1539	THR	C-N-CA	-6.35	112.97	122.74
5	M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	T	486	GLN	CA-C-N	6.35	128.78	120.28
6	T	486	GLN	C-N-CA	6.35	128.78	120.28
4	X	207	GLN	N-CA-CB	-6.35	100.74	110.20
5	M	252	CYS	CA-C-N	6.34	131.43	120.58
5	M	252	CYS	C-N-CA	6.34	131.43	120.58
6	H	378	GLU	N-CA-C	-6.34	104.80	112.54
1	W	196	GLY	N-CA-C	-6.34	105.93	115.32
4	F	367	THR	O-C-N	-6.34	113.71	122.46
5	Y	349	LEU	N-CA-CB	6.34	120.11	110.28
6	H	486	GLN	CA-C-N	6.34	128.78	120.28
6	H	486	GLN	C-N-CA	6.34	128.78	120.28
4	R	199	GLU	O-C-N	6.34	128.84	122.12
4	L	207	GLN	N-CA-CB	-6.33	100.76	110.20
1	E	196	GLY	N-CA-C	-6.33	105.95	115.32
4	F	234	PRO	N-CA-C	6.33	125.52	112.47
4	F	328	VAL	O-C-N	-6.33	114.93	122.66
4	L	199	GLU	O-C-N	6.33	128.83	122.12
4	L	234	PRO	N-CA-C	6.33	125.52	112.47
4	L	453	TYR	N-CA-CB	6.33	121.19	110.49
2	U	808	ASN	N-CA-C	-6.33	106.26	112.97
6	T	378	GLU	N-CA-C	-6.33	104.82	112.54
3	P	1452	LEU	CB-CA-C	-6.33	100.94	110.88
4	R	453	TYR	N-CA-CB	6.33	121.19	110.49
6	H	412	GLU	CA-C-N	6.33	129.05	120.44
6	H	412	GLU	C-N-CA	6.33	129.05	120.44
3	D	1452	LEU	CB-CA-C	-6.33	100.95	110.88
4	F	269	ASN	CA-C-N	-6.33	111.44	120.42
4	F	269	ASN	C-N-CA	-6.33	111.44	120.42
4	F	453	TYR	N-CA-CB	6.33	121.18	110.49
5	G	252	CYS	CA-C-N	6.33	131.40	120.58
5	G	252	CYS	C-N-CA	6.33	131.40	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	196	GLY	N-CA-C	-6.33	105.96	115.32
1	B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	L	269	ASN	CA-C-N	-6.32	111.44	120.42
4	L	269	ASN	C-N-CA	-6.32	111.44	120.42
1	W	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	F	199	GLU	O-C-N	6.32	128.82	122.12
1	Q	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	A	849	ASN	CB-CA-C	-6.32	108.64	117.23
4	X	453	TYR	N-CA-CB	6.32	121.17	110.49
5	S	252	CYS	CA-C-N	6.32	131.38	120.58
5	S	252	CYS	C-N-CA	6.32	131.38	120.58
1	E	849	ASN	CB-CA-C	-6.31	108.64	117.23
4	F	207	GLN	N-CA-CB	-6.31	100.79	110.20
1	K	849	ASN	CB-CA-C	-6.31	108.65	117.23
6	T	412	GLU	CA-C-N	6.31	129.02	120.44
6	T	412	GLU	C-N-CA	6.31	129.02	120.44
4	L	327	MET	CA-C-N	-6.31	114.52	123.10
4	L	327	MET	C-N-CA	-6.31	114.52	123.10
4	L	367	THR	O-C-N	-6.31	113.75	122.46
5	Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	Z	445	LYS	O-C-N	6.31	128.81	122.12
5	M	325	ALA	N-CA-C	6.30	121.21	112.45
1	A	196	GLY	N-CA-C	-6.30	105.99	115.32
7	V	546	ILE	CA-C-N	6.30	128.72	120.28
7	V	546	ILE	C-N-CA	6.30	128.72	120.28
5	S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	B	196	GLY	N-CA-C	-6.30	106.00	115.32
2	I	220	ILE	CA-C-N	6.30	128.63	120.44
2	I	220	ILE	C-N-CA	6.30	128.63	120.44
6	Z	341	SER	CA-C-N	-6.30	111.35	120.29
6	Z	341	SER	C-N-CA	-6.30	111.35	120.29
1	W	1342	LEU	CB-CA-C	-6.29	100.96	109.71
6	H	495	LEU	CB-CA-C	-6.29	100.22	110.79
2	O	220	ILE	CA-C-N	6.29	128.62	120.44
2	O	220	ILE	C-N-CA	6.29	128.62	120.44
4	X	367	THR	O-C-N	-6.29	113.78	122.46
1	Q	1342	LEU	CB-CA-C	-6.29	100.97	109.71
3	P	1509	GLN	CA-C-O	6.28	127.08	120.42
1	Q	196	GLY	N-CA-C	-6.28	106.02	115.32
7	J	546	ILE	CA-C-N	6.28	128.70	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	546	ILE	C-N-CA	6.28	128.70	120.28
4	R	367	THR	O-C-N	-6.28	113.79	122.46
1	E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
1	K	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	U	220	ILE	CA-C-N	6.28	128.60	120.44
2	U	220	ILE	C-N-CA	6.28	128.60	120.44
6	Z	412	GLU	CA-C-N	6.27	128.97	120.44
6	Z	412	GLU	C-N-CA	6.27	128.97	120.44
6	N	412	GLU	CA-C-N	6.27	128.97	120.44
6	N	412	GLU	C-N-CA	6.27	128.97	120.44
2	C	220	ILE	CA-C-N	6.27	128.59	120.44
2	C	220	ILE	C-N-CA	6.27	128.59	120.44
5	G	313	ILE	CB-CA-C	6.27	119.99	111.97
4	X	199	GLU	O-C-N	6.27	128.76	122.12
6	N	419	GLY	CA-C-N	-6.26	111.39	120.29
6	N	419	GLY	C-N-CA	-6.26	111.39	120.29
6	N	495	LEU	CB-CA-C	-6.26	100.27	110.79
4	R	246	GLU	CA-C-O	6.26	127.86	120.66
3	D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	F	437	GLN	N-CA-CB	6.26	119.09	110.01
6	T	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
3	P	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	P	1684	ALA	C-N-CA	-6.26	111.69	120.39
5	Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	G	291	LYS	N-CA-C	-6.25	104.46	111.28
5	Y	326	LEU	N-CA-C	6.25	124.12	110.80
5	M	291	LYS	N-CA-C	-6.25	104.47	111.28
6	Z	406	LEU	O-C-N	-6.25	111.09	122.34
4	F	327	MET	CA-C-N	-6.25	114.60	123.10
4	F	327	MET	C-N-CA	-6.25	114.60	123.10
6	H	412	GLU	N-CA-C	6.25	121.12	111.56
4	X	327	MET	CA-C-N	-6.25	114.60	123.10
4	X	327	MET	C-N-CA	-6.25	114.60	123.10
5	S	313	ILE	CB-CA-C	6.25	119.96	111.97
5	G	326	LEU	N-CA-C	6.24	124.10	110.80
5	S	326	LEU	N-CA-C	6.24	124.10	110.80
6	H	391	GLN	N-CA-CB	6.24	119.83	110.22
5	M	326	LEU	N-CA-C	6.24	124.09	110.80
4	R	437	GLN	N-CA-CB	6.24	119.06	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	327	MET	CA-C-N	-6.24	114.62	123.10
4	R	327	MET	C-N-CA	-6.24	114.62	123.10
4	X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	Y	380	ILE	CB-CA-C	-6.24	101.78	111.26
6	T	341	SER	CA-C-N	-6.24	111.43	120.29
6	T	341	SER	C-N-CA	-6.24	111.43	120.29
5	G	325	ALA	N-CA-C	6.24	121.12	112.45
6	T	412	GLU	N-CA-C	6.24	121.10	111.56
1	Q	1354	LEU	N-CA-C	-6.23	102.80	110.65
5	M	380	ILE	CB-CA-C	-6.23	101.79	111.26
5	S	260	LYS	CA-C-N	6.23	128.63	120.28
5	S	260	LYS	C-N-CA	6.23	128.63	120.28
4	F	216	VAL	N-CA-CB	6.23	120.32	110.54
5	S	291	LYS	N-CA-C	-6.23	104.49	111.28
4	L	246	GLU	CA-C-O	6.23	127.82	120.66
5	M	260	LYS	CA-C-N	6.23	128.63	120.28
5	M	260	LYS	C-N-CA	6.23	128.63	120.28
5	S	256	GLU	CA-C-N	6.23	128.91	120.44
5	S	256	GLU	C-N-CA	6.23	128.91	120.44
5	S	325	ALA	N-CA-C	6.23	121.11	112.45
6	T	406	LEU	O-C-N	-6.23	111.13	122.34
4	F	399	SER	N-CA-C	-6.22	97.54	110.80
6	H	341	SER	CA-C-N	-6.22	111.45	120.29
6	H	341	SER	C-N-CA	-6.22	111.45	120.29
7	J	243	GLY	N-CA-C	-6.22	106.11	115.32
5	S	380	ILE	CB-CA-C	-6.22	101.80	111.26
7	V	243	GLY	N-CA-C	-6.22	106.11	115.32
4	X	492	GLU	CA-C-N	-6.22	110.50	121.70
4	X	492	GLU	C-N-CA	-6.22	110.50	121.70
6	N	341	SER	CA-C-N	-6.22	111.45	120.29
6	N	341	SER	C-N-CA	-6.22	111.45	120.29
6	Z	412	GLU	N-CA-C	6.22	121.08	111.56
5	G	256	GLU	CA-C-N	6.22	128.90	120.44
5	G	256	GLU	C-N-CA	6.22	128.90	120.44
6	N	406	LEU	O-C-N	-6.22	111.14	122.34
3	D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	Y	256	GLU	CA-C-N	6.22	128.90	120.44
5	Y	256	GLU	C-N-CA	6.22	128.90	120.44
4	F	246	GLU	CA-C-O	6.21	127.81	120.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	N	412	GLU	N-CA-C	6.21	121.07	111.56
6	Z	391	GLN	N-CA-CB	6.21	119.79	110.22
5	G	260	LYS	CA-C-N	6.21	128.60	120.28
5	G	260	LYS	C-N-CA	6.21	128.60	120.28
4	R	216	VAL	N-CA-CB	6.21	120.29	110.54
4	R	492	GLU	CA-C-N	-6.21	110.52	121.70
4	R	492	GLU	C-N-CA	-6.21	110.52	121.70
4	X	399	SER	N-CA-C	-6.21	97.57	110.80
6	Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	H	406	LEU	O-C-N	-6.21	111.17	122.34
1	K	801	HIS	CA-C-N	6.21	133.40	121.54
1	K	801	HIS	C-N-CA	6.21	133.40	121.54
4	R	399	SER	N-CA-C	-6.21	97.58	110.80
4	L	399	SER	N-CA-C	-6.21	97.58	110.80
5	M	256	GLU	CA-C-N	6.21	128.88	120.44
5	M	256	GLU	C-N-CA	6.21	128.88	120.44
6	N	391	GLN	N-CA-CB	6.21	119.78	110.22
2	U	405	GLU	CA-C-N	-6.21	110.80	121.97
2	U	405	GLU	C-N-CA	-6.21	110.80	121.97
2	C	405	GLU	CA-C-N	-6.20	110.80	121.97
2	C	405	GLU	C-N-CA	-6.20	110.80	121.97
2	I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	L	492	GLU	C-N-CA	-6.20	110.53	121.70
4	X	216	VAL	N-CA-CB	6.20	120.28	110.54
1	E	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	M	313	ILE	CB-CA-C	6.20	119.91	111.97
2	I	340	ARG	CA-C-N	6.20	128.87	120.38
2	I	340	ARG	C-N-CA	6.20	128.87	120.38
2	O	340	ARG	CA-C-N	6.20	128.87	120.38
2	O	340	ARG	C-N-CA	6.20	128.87	120.38
1	W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	X	458	ASP	O-C-N	-6.20	114.34	122.59
6	T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	Y	291	LYS	N-CA-C	-6.20	104.53	111.28
4	F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	F	492	GLU	C-N-CA	-6.19	110.55	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	801	HIS	CA-C-N	6.19	133.36	121.54
1	A	801	HIS	C-N-CA	6.19	133.36	121.54
2	C	306	PRO	N-CA-C	6.19	125.22	112.47
2	O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	Y	313	ILE	CB-CA-C	6.19	119.89	111.97
1	W	801	HIS	CA-C-N	6.19	133.36	121.54
1	W	801	HIS	C-N-CA	6.19	133.36	121.54
3	P	1508	LYS	N-CA-C	-6.19	97.62	110.80
4	X	246	GLU	CA-C-O	6.19	127.78	120.66
4	X	422	ASN	O-C-N	6.19	129.69	122.20
1	K	1354	LEU	N-CA-C	-6.19	102.86	110.65
4	L	159	ILE	N-CA-CB	-6.18	100.99	111.50
3	D	1492	GLY	CA-C-O	-6.18	112.36	119.65
1	Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	B	855	ILE	N-CA-CB	6.18	118.94	110.54
6	Z	474	ILE	O-C-N	-6.18	115.88	121.87
5	Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	Y	260	LYS	C-N-CA	6.18	128.56	120.28
6	N	338	ASN	N-CA-C	-6.18	104.46	111.07
3	P	1492	GLY	CA-C-O	-6.18	112.36	119.65
1	B	801	HIS	CA-C-N	6.17	133.34	121.54
1	B	801	HIS	C-N-CA	6.17	133.34	121.54
1	K	102	CYS	N-CA-C	6.17	119.20	111.24
3	D	1680	ILE	CB-CA-C	-6.17	103.81	112.14
2	I	306	PRO	N-CA-C	6.17	125.18	112.47
6	Z	414	VAL	CA-C-O	-6.17	114.31	120.85
2	U	306	PRO	N-CA-C	6.17	125.18	112.47
1	B	102	CYS	N-CA-C	6.17	119.20	111.24
2	C	340	ARG	CA-C-N	6.17	128.83	120.38
2	C	340	ARG	C-N-CA	6.17	128.83	120.38
1	E	801	HIS	CA-C-N	6.17	133.32	121.54
1	E	801	HIS	C-N-CA	6.17	133.32	121.54
4	L	216	VAL	N-CA-CB	6.17	120.22	110.54
2	O	306	PRO	N-CA-C	6.17	125.17	112.47
1	A	238	VAL	CB-CA-C	-6.17	102.29	110.98
1	A	102	CYS	N-CA-C	6.16	119.19	111.24
6	H	474	ILE	O-C-N	-6.16	115.89	121.87
6	N	401	LYS	N-CA-CB	6.16	119.38	110.20
1	A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	D	1508	LYS	N-CA-C	-6.16	97.68	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	102	CYS	N-CA-C	6.16	119.19	111.24
4	F	432	ASN	CB-CA-C	-6.16	100.15	110.56
6	Z	401	LYS	N-CA-CB	6.16	119.38	110.20
6	H	430	ARG	N-CA-C	-6.16	105.72	113.23
1	Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	W	855	ILE	N-CA-CB	6.15	118.91	110.54
4	F	422	ASN	O-C-N	6.15	129.64	122.20
6	H	414	VAL	CA-C-O	-6.15	114.33	120.85
2	U	340	ARG	CA-C-N	6.15	128.80	120.38
2	U	340	ARG	C-N-CA	6.15	128.80	120.38
5	G	376	ASN	CA-C-O	6.15	127.07	120.55
1	W	102	CYS	N-CA-C	6.15	119.17	111.24
1	E	855	ILE	N-CA-CB	6.14	118.90	110.54
4	F	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	T	401	LYS	N-CA-CB	6.14	119.36	110.20
6	T	501	GLU	N-CA-CB	6.14	121.24	110.18
6	T	474	ILE	O-C-N	-6.14	115.91	121.87
6	N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	R	210	VAL	N-CA-CB	6.14	120.81	110.56
4	X	432	ASN	CB-CA-C	-6.14	100.18	110.56
4	R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	T	414	VAL	CA-C-O	-6.14	114.34	120.85
6	Z	501	GLU	N-CA-CB	6.14	121.22	110.18
1	K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	R	458	ASP	O-C-N	-6.13	114.43	122.59
6	H	401	LYS	N-CA-CB	6.13	119.33	110.20
4	L	422	ASN	O-C-N	6.13	129.62	122.20
4	L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
7	V	859	ILE	CA-C-N	-6.13	110.66	121.70
7	V	859	ILE	C-N-CA	-6.13	110.66	121.70
3	D	1535	THR	O-C-N	-6.13	115.62	122.12
3	P	877	CYS	CA-C-N	6.13	127.50	119.84
3	P	877	CYS	C-N-CA	6.13	127.50	119.84
6	N	430	ARG	N-CA-C	-6.13	105.75	113.23
5	Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	M	376	ASN	CA-C-O	6.12	127.04	120.55
4	R	131	GLY	O-C-N	-6.12	116.31	122.19
4	F	458	ASP	O-C-N	-6.12	114.45	122.59
4	L	210	VAL	N-CA-CB	6.12	120.78	110.56
6	H	338	ASN	N-CA-C	-6.12	104.52	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	800	PRO	O-C-N	6.12	124.12	121.31
6	Z	471	LEU	O-C-N	-6.12	115.18	122.15
7	J	859	ILE	CA-C-N	-6.12	110.69	121.70
7	J	859	ILE	C-N-CA	-6.12	110.69	121.70
4	L	458	ASP	O-C-N	-6.12	114.45	122.59
3	P	1535	THR	O-C-N	-6.12	115.64	122.12
6	T	430	ARG	N-CA-C	-6.12	105.77	113.23
4	R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	R	253	SER	CB-CA-C	6.11	121.37	109.33
4	R	306	PRO	N-CA-CB	6.11	109.81	103.15
4	R	422	ASN	O-C-N	6.11	129.60	122.20
6	H	501	GLU	N-CA-CB	6.11	121.18	110.18
7	V	695	LEU	N-CA-C	-6.11	104.53	111.07
4	X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	F	253	SER	CB-CA-C	6.11	121.37	109.33
4	X	306	PRO	N-CA-CB	6.11	109.81	103.15
2	C	496	LEU	CA-C-N	6.11	128.46	120.28
2	C	496	LEU	C-N-CA	6.11	128.46	120.28
3	D	1470	ILE	CA-C-N	6.11	128.75	120.38
3	D	1470	ILE	C-N-CA	6.11	128.75	120.38
6	N	474	ILE	O-C-N	-6.11	115.95	121.87
5	S	376	ASN	CA-C-O	6.11	127.02	120.55
7	V	1371	GLN	CA-C-N	-6.11	112.57	122.34
7	V	1371	GLN	C-N-CA	-6.11	112.57	122.34
3	P	650	LEU	CB-CA-C	-6.10	100.66	110.79
1	Q	416	GLY	CA-C-N	-6.10	115.09	122.90
1	Q	416	GLY	C-N-CA	-6.10	115.09	122.90
5	S	320	LYS	CA-C-N	-6.10	110.53	120.72
5	S	320	LYS	C-N-CA	-6.10	110.53	120.72
4	L	253	SER	CB-CA-C	6.10	121.35	109.33
1	A	397	SER	CA-C-N	6.10	128.37	120.44
1	A	397	SER	C-N-CA	6.10	128.37	120.44
5	Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	L	253	SER	O-C-N	6.10	131.12	123.19
6	N	501	GLU	N-CA-CB	6.10	121.15	110.18
5	M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	M	320	LYS	C-N-CA	-6.10	110.54	120.72
6	N	453	ASP	O-C-N	-6.09	115.20	122.15
6	T	453	ASP	O-C-N	-6.09	115.20	122.15
4	F	306	PRO	N-CA-CB	6.09	109.79	103.15
5	G	320	LYS	CA-C-N	-6.09	110.55	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	320	LYS	C-N-CA	-6.09	110.55	120.72
6	H	453	ASP	O-C-N	-6.09	115.21	122.15
7	J	1371	GLN	CA-C-N	-6.09	112.59	122.34
7	J	1371	GLN	C-N-CA	-6.09	112.59	122.34
4	L	306	PRO	N-CA-CB	6.09	109.79	103.15
3	P	1470	ILE	CA-C-N	6.09	128.73	120.38
3	P	1470	ILE	C-N-CA	6.09	128.73	120.38
7	J	1465	GLU	N-CA-CB	6.09	120.33	110.40
4	X	253	SER	CB-CA-C	6.09	121.32	109.33
3	D	877	CYS	CA-C-N	6.09	127.45	119.84
3	D	877	CYS	C-N-CA	6.09	127.45	119.84
5	G	369	ASN	N-CA-CB	-6.09	100.84	110.28
1	K	1261	PHE	N-CA-CB	6.09	119.17	110.16
2	O	496	LEU	CA-C-N	6.09	128.44	120.28
2	O	496	LEU	C-N-CA	6.09	128.44	120.28
3	D	650	LEU	CB-CA-C	-6.08	100.69	110.79
1	W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	W	416	GLY	C-N-CA	-6.08	115.11	122.90
4	F	210	VAL	N-CA-CB	6.08	120.72	110.56
4	F	484	ASP	N-CA-CB	-6.08	101.19	110.01
2	I	496	LEU	CA-C-N	6.08	128.43	120.28
2	I	496	LEU	C-N-CA	6.08	128.43	120.28
5	M	369	ASN	N-CA-CB	-6.08	100.85	110.28
3	P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	P	1634	SER	C-N-CA	-6.08	114.93	122.84
2	U	496	LEU	CA-C-N	6.08	128.43	120.28
2	U	496	LEU	C-N-CA	6.08	128.43	120.28
4	X	210	VAL	N-CA-CB	6.08	120.72	110.56
6	Z	338	ASN	N-CA-C	-6.08	104.56	111.07
4	F	253	SER	O-C-N	6.08	131.09	123.19
4	R	306	PRO	O-C-N	-6.08	115.61	122.18
1	E	416	GLY	CA-C-N	-6.08	115.12	122.90
1	E	416	GLY	C-N-CA	-6.08	115.12	122.90
6	T	338	ASN	N-CA-C	-6.08	104.57	111.07
4	R	205	GLN	N-CA-C	6.08	119.41	112.97
1	Q	1261	PHE	N-CA-CB	6.08	119.15	110.16
1	W	1261	PHE	N-CA-CB	6.08	119.15	110.16
5	Y	369	ASN	N-CA-CB	-6.08	100.86	110.28
1	B	397	SER	CA-C-N	6.07	128.34	120.44
1	B	397	SER	C-N-CA	6.07	128.34	120.44
1	E	1261	PHE	N-CA-CB	6.07	119.15	110.16
4	X	484	ASP	N-CA-CB	-6.07	101.20	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	397	SER	CA-C-N	6.07	128.33	120.44
1	K	397	SER	C-N-CA	6.07	128.33	120.44
4	R	484	ASP	N-CA-CB	-6.07	101.20	110.01
7	J	695	LEU	N-CA-C	-6.07	104.58	111.07
1	Q	397	SER	CA-C-N	6.07	128.33	120.44
1	Q	397	SER	C-N-CA	6.07	128.33	120.44
1	A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	A	416	GLY	C-N-CA	-6.07	115.13	122.90
4	R	253	SER	O-C-N	6.07	131.08	123.19
4	L	484	ASP	N-CA-CB	-6.07	101.21	110.01
3	D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	D	1634	SER	C-N-CA	-6.07	114.95	122.84
1	K	416	GLY	CA-C-N	-6.07	115.14	122.90
1	K	416	GLY	C-N-CA	-6.07	115.14	122.90
5	S	369	ASN	N-CA-CB	-6.06	100.88	110.28
7	V	1414	ASN	N-CA-C	-6.06	97.89	110.80
1	B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	B	416	GLY	C-N-CA	-6.06	115.15	122.90
7	J	1414	ASN	N-CA-C	-6.06	97.90	110.80
4	R	403	ILE	CA-C-N	-6.06	111.78	122.20
4	R	403	ILE	C-N-CA	-6.06	111.78	122.20
4	X	131	GLY	O-C-N	-6.06	116.38	122.19
6	Z	453	ASP	O-C-N	-6.06	115.25	122.15
1	E	397	SER	CA-C-N	6.05	128.31	120.44
1	E	397	SER	C-N-CA	6.05	128.31	120.44
4	X	306	PRO	O-C-N	-6.05	115.64	122.18
3	D	1500	LEU	CA-C-O	-6.05	114.47	120.82
6	Z	420	THR	CB-CA-C	6.05	121.14	110.85
6	Z	496	GLN	CA-C-N	6.05	133.09	121.54
6	Z	496	GLN	C-N-CA	6.05	133.09	121.54
4	R	366	THR	N-CA-CB	6.05	118.78	110.01
1	W	397	SER	CA-C-N	6.05	128.30	120.44
1	W	397	SER	C-N-CA	6.05	128.30	120.44
4	X	253	SER	O-C-N	6.05	131.05	123.19
4	X	442	ASN	CA-C-O	6.05	127.17	120.82
3	D	800	PRO	O-C-N	6.04	124.09	121.31
4	L	306	PRO	O-C-N	-6.04	115.65	122.18
6	N	336	LEU	N-CA-C	6.04	117.67	111.14
3	D	1541	THR	O-C-N	6.04	126.39	120.71
4	F	205	GLN	N-CA-C	6.04	119.37	112.97
6	T	336	LEU	N-CA-C	6.04	117.66	111.14
6	T	471	LEU	O-C-N	-6.04	115.26	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	V	1465	GLU	N-CA-CB	6.04	120.24	110.40
6	N	471	LEU	O-C-N	-6.04	115.27	122.15
3	P	1667	ALA	CB-CA-C	-6.04	100.77	110.79
6	T	420	THR	CB-CA-C	6.04	121.11	110.85
4	X	205	GLN	N-CA-C	6.04	119.37	112.97
6	H	336	LEU	N-CA-C	6.03	117.66	111.14
4	F	403	ILE	CA-C-N	-6.03	111.83	122.20
4	F	403	ILE	C-N-CA	-6.03	111.83	122.20
4	L	442	ASN	CA-C-O	6.03	127.15	120.82
6	N	420	THR	CB-CA-C	6.03	121.10	110.85
1	Q	231	LYS	N-CA-C	-6.03	102.30	110.68
1	K	231	LYS	N-CA-C	-6.03	102.30	110.68
4	L	205	GLN	N-CA-C	6.03	119.36	112.97
1	K	86	ARG	CA-C-N	-6.03	118.09	123.33
1	K	86	ARG	C-N-CA	-6.03	118.09	123.33
6	H	420	THR	CB-CA-C	6.02	121.09	110.85
6	H	471	LEU	O-C-N	-6.02	115.28	122.15
3	D	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	P	1541	THR	O-C-N	6.02	126.37	120.71
1	Q	86	ARG	CA-C-N	-6.02	118.09	123.33
1	Q	86	ARG	C-N-CA	-6.02	118.09	123.33
1	B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	N	496	GLN	CA-C-N	6.02	133.04	121.54
6	N	496	GLN	C-N-CA	6.02	133.04	121.54
4	X	403	ILE	CA-C-N	-6.02	111.85	122.20
4	X	403	ILE	C-N-CA	-6.02	111.85	122.20
6	T	496	GLN	CA-C-N	6.02	133.03	121.54
6	T	496	GLN	C-N-CA	6.02	133.03	121.54
4	X	366	THR	N-CA-CB	6.02	118.74	110.01
4	F	131	GLY	O-C-N	-6.01	116.42	122.19
1	W	846	ILE	CB-CA-C	-6.01	104.18	111.88
4	L	438	ILE	CA-C-N	-6.01	111.17	120.31
4	L	438	ILE	C-N-CA	-6.01	111.17	120.31
3	P	1500	LEU	CA-C-O	-6.01	114.51	120.82
1	A	231	LYS	N-CA-C	-6.01	102.33	110.68
4	L	131	GLY	O-C-N	-6.01	116.42	122.19
4	R	442	ASN	CA-C-O	6.01	127.13	120.82
4	F	366	THR	N-CA-CB	6.01	118.72	110.01
6	H	496	GLN	CA-C-N	6.01	133.01	121.54
6	H	496	GLN	C-N-CA	6.01	133.01	121.54
1	E	86	ARG	CA-C-N	-6.00	118.11	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	A	86	ARG	CA-C-N	-6.00	118.11	123.33
1	A	86	ARG	C-N-CA	-6.00	118.11	123.33
4	F	442	ASN	CA-C-O	6.00	127.12	120.82
1	E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	R	152	LYS	CB-CA-C	-6.00	100.54	109.90
4	R	267	GLN	N-CA-CB	-6.00	101.22	110.04
4	F	306	PRO	O-C-N	-6.00	115.70	122.18
4	F	330	PHE	CA-C-N	-6.00	111.01	120.60
4	F	330	PHE	C-N-CA	-6.00	111.01	120.60
1	B	846	ILE	CB-CA-C	-5.99	104.21	111.88
4	F	152	LYS	CB-CA-C	-5.99	100.55	109.90
4	L	366	THR	N-CA-CB	5.99	118.70	110.01
6	Z	336	LEU	N-CA-C	5.99	117.61	111.14
4	F	438	ILE	CA-C-N	-5.99	111.20	120.31
4	F	438	ILE	C-N-CA	-5.99	111.20	120.31
4	L	152	LYS	CB-CA-C	-5.99	100.56	109.90
5	M	346	PHE	N-CA-C	-5.99	104.67	111.14
1	W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	W	231	LYS	N-CA-C	-5.99	102.36	110.68
5	S	342	PRO	N-CA-CB	-5.99	97.17	103.52
1	B	231	LYS	N-CA-C	-5.98	102.36	110.68
4	F	461	ARG	CA-C-O	5.98	129.07	120.51
5	G	346	PHE	N-CA-C	-5.98	104.68	111.14
2	I	252	MET	N-CA-CB	5.98	120.60	110.49
5	M	350	VAL	N-CA-CB	5.98	117.55	110.55
4	R	438	ILE	CA-C-N	-5.98	111.21	120.31
4	R	438	ILE	C-N-CA	-5.98	111.21	120.31
4	R	330	PHE	CA-C-N	-5.98	111.03	120.60
4	R	330	PHE	C-N-CA	-5.98	111.03	120.60
1	K	846	ILE	CB-CA-C	-5.98	104.23	111.88
2	U	177	SER	CA-C-N	-5.98	114.82	122.77
2	U	177	SER	C-N-CA	-5.98	114.82	122.77
3	D	1492	GLY	O-C-N	5.98	129.12	122.54
5	Y	346	PHE	N-CA-C	-5.98	104.69	111.14
5	Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	G	259	GLN	N-CA-C	-5.97	104.84	111.71
5	G	350	VAL	N-CA-CB	5.97	117.54	110.55
1	K	205	LEU	CB-CA-C	-5.97	104.02	111.43
2	C	252	MET	N-CA-CB	5.97	120.58	110.49
4	L	300	PRO	N-CA-C	5.97	117.99	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	259	GLN	N-CA-C	-5.97	104.84	111.71
4	X	330	PHE	CA-C-N	-5.97	111.04	120.60
4	X	330	PHE	C-N-CA	-5.97	111.04	120.60
5	Y	350	VAL	N-CA-CB	5.97	117.54	110.55
1	A	846	ILE	CB-CA-C	-5.97	104.24	111.88
1	E	846	ILE	CB-CA-C	-5.97	104.24	111.88
4	L	204	SER	CA-C-N	5.97	132.39	122.66
4	L	204	SER	C-N-CA	5.97	132.39	122.66
2	U	252	MET	N-CA-CB	5.97	120.58	110.49
2	C	177	SER	CA-C-N	-5.97	114.83	122.77
2	C	177	SER	C-N-CA	-5.97	114.83	122.77
1	E	205	LEU	CB-CA-C	-5.97	104.03	111.43
2	I	177	SER	CA-C-N	-5.97	114.83	122.77
2	I	177	SER	C-N-CA	-5.97	114.83	122.77
2	I	220	ILE	N-CA-C	-5.97	104.53	110.62
7	J	1461	ASN	N-CA-C	-5.97	104.77	111.28
4	X	152	LYS	CB-CA-C	-5.97	100.59	109.90
4	X	300	PRO	N-CA-C	5.97	117.98	110.70
4	L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	L	403	ILE	C-N-CA	-5.97	111.94	122.20
4	X	461	ARG	CA-C-O	5.97	129.04	120.51
5	G	384	ASP	CB-CA-C	-5.96	99.22	110.67
4	R	432	ASN	N-CA-CB	5.96	119.27	110.56
2	U	620	GLY	N-CA-C	-5.96	106.49	115.32
4	X	438	ILE	CA-C-N	-5.96	111.24	120.31
4	X	438	ILE	C-N-CA	-5.96	111.24	120.31
2	C	620	GLY	N-CA-C	-5.96	106.50	115.32
2	I	620	GLY	N-CA-C	-5.96	106.50	115.32
1	Q	205	LEU	CB-CA-C	-5.96	104.04	111.43
5	M	384	ASP	CB-CA-C	-5.96	99.22	110.67
1	Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
2	O	252	MET	N-CA-CB	5.96	120.56	110.49
4	X	267	GLN	N-CA-CB	-5.96	101.28	110.04
1	A	205	LEU	CB-CA-C	-5.96	104.04	111.43
7	J	674	GLN	CB-CA-C	-5.96	109.72	116.63
5	S	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	M	342	PRO	N-CA-CB	-5.96	97.20	103.52
3	P	1492	GLY	O-C-N	5.96	129.09	122.54
4	F	300	PRO	N-CA-C	5.95	117.96	110.70
4	L	461	ARG	CA-C-O	5.95	129.03	120.51
4	R	204	SER	CA-C-N	5.95	132.36	122.66
4	R	204	SER	C-N-CA	5.95	132.36	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	346	PHE	N-CA-C	-5.95	104.71	111.14
2	I	586	LYS	CA-C-N	5.95	132.91	121.54
2	I	586	LYS	C-N-CA	5.95	132.91	121.54
7	V	891	GLY	N-CA-C	-5.95	106.30	111.95
4	F	432	ASN	N-CA-CB	5.95	119.25	110.56
4	L	432	ASN	N-CA-CB	5.95	119.25	110.56
5	G	407	HIS	CA-C-N	-5.95	111.84	120.29
5	G	407	HIS	C-N-CA	-5.95	111.84	120.29
5	Y	342	PRO	N-CA-CB	-5.95	97.21	103.52
4	L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	F	204	SER	CA-C-N	5.95	132.35	122.66
4	F	204	SER	C-N-CA	5.95	132.35	122.66
4	L	471	GLN	CA-C-N	-5.95	111.85	120.29
4	L	471	GLN	C-N-CA	-5.95	111.85	120.29
5	M	407	HIS	CA-C-N	-5.95	111.85	120.29
5	M	407	HIS	C-N-CA	-5.95	111.85	120.29
5	Y	259	GLN	N-CA-C	-5.95	104.87	111.71
2	C	586	LYS	CA-C-N	5.94	132.89	121.54
2	C	586	LYS	C-N-CA	5.94	132.89	121.54
5	M	259	GLN	N-CA-C	-5.94	104.88	111.71
2	O	177	SER	CA-C-N	-5.94	114.87	122.77
2	O	177	SER	C-N-CA	-5.94	114.87	122.77
2	U	761	LYS	N-CA-C	-5.94	100.81	110.20
5	S	350	VAL	N-CA-CB	5.94	117.50	110.55
7	V	1461	ASN	N-CA-C	-5.94	104.81	111.28
1	W	205	LEU	CB-CA-C	-5.94	104.06	111.43
4	X	432	ASN	N-CA-CB	5.94	119.23	110.56
5	G	342	PRO	N-CA-CB	-5.94	97.23	103.52
5	S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	S	407	HIS	C-N-CA	-5.94	111.86	120.29
2	C	761	LYS	N-CA-C	-5.93	100.83	110.20
4	F	249	PRO	N-CA-C	-5.93	105.21	113.81
4	R	461	ARG	CA-C-O	5.93	129.00	120.51
7	V	482	PRO	CA-C-N	5.93	132.35	121.85
7	V	482	PRO	C-N-CA	5.93	132.35	121.85
2	U	586	LYS	CA-C-N	5.93	132.87	121.54
2	U	586	LYS	C-N-CA	5.93	132.87	121.54
5	Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	Y	407	HIS	C-N-CA	-5.93	111.87	120.29
3	D	208	LEU	N-CA-C	-5.93	100.74	109.81
3	D	1517	SER	N-CA-C	-5.93	101.64	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	471	GLN	CA-C-N	-5.93	111.87	120.29
4	F	471	GLN	C-N-CA	-5.93	111.87	120.29
4	L	267	GLN	N-CA-CB	-5.93	101.32	110.04
3	P	1517	SER	N-CA-C	-5.93	101.64	111.37
5	S	321	ASN	N-CA-C	-5.93	105.31	112.54
3	P	208	LEU	N-CA-C	-5.93	100.74	109.81
2	O	220	ILE	N-CA-C	-5.93	104.58	110.62
2	O	586	LYS	CA-C-N	5.93	132.86	121.54
2	O	586	LYS	C-N-CA	5.93	132.86	121.54
7	V	1463	MET	N-CA-C	-5.92	104.90	111.71
5	G	321	ASN	N-CA-C	-5.92	105.32	112.54
7	J	891	GLY	N-CA-C	-5.92	106.32	111.95
2	O	761	LYS	N-CA-C	-5.92	100.84	110.20
4	X	204	SER	CA-C-N	5.92	132.31	122.66
4	X	204	SER	C-N-CA	5.92	132.31	122.66
5	Y	321	ASN	N-CA-C	-5.92	105.32	112.54
4	F	267	GLN	N-CA-CB	-5.91	101.35	110.04
4	L	220	ASN	N-CA-CB	5.91	120.07	110.43
2	O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	R	300	PRO	N-CA-C	5.91	117.91	110.70
4	R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	R	471	GLN	C-N-CA	-5.91	111.90	120.29
7	V	674	GLN	CB-CA-C	-5.91	109.77	116.63
1	B	205	LEU	CB-CA-C	-5.91	104.10	111.43
4	R	249	PRO	N-CA-C	-5.91	105.24	113.81
2	C	220	ILE	N-CA-C	-5.90	104.60	110.62
7	J	482	PRO	CA-C-N	5.90	132.30	121.85
7	J	482	PRO	C-N-CA	5.90	132.30	121.85
2	O	726	SER	CA-C-N	5.90	128.85	120.53
2	O	726	SER	C-N-CA	5.90	128.85	120.53
2	C	726	SER	CA-C-N	5.90	128.85	120.53
2	C	726	SER	C-N-CA	5.90	128.85	120.53
4	X	471	GLN	CA-C-N	-5.90	111.91	120.29
4	X	471	GLN	C-N-CA	-5.90	111.91	120.29
2	U	220	ILE	N-CA-C	-5.90	104.61	110.62
7	V	1466	TRP	O-C-N	-5.90	114.75	122.59
3	D	1538	SER	N-CA-C	-5.89	105.19	112.38
4	X	249	PRO	N-CA-C	-5.89	105.27	113.81
4	F	220	ASN	N-CA-CB	5.89	120.03	110.43
5	M	321	ASN	N-CA-C	-5.89	105.35	112.54
2	I	761	LYS	N-CA-C	-5.89	100.90	110.20
7	J	1463	MET	N-CA-C	-5.88	104.94	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	440	MET	N-CA-C	-5.88	104.77	111.07
4	L	249	PRO	N-CA-C	-5.88	105.29	113.81
4	X	220	ASN	N-CA-CB	5.88	120.01	110.43
1	E	97	PHE	N-CA-C	-5.88	104.98	114.09
3	P	1538	SER	N-CA-C	-5.88	105.21	112.38
3	P	1663	GLN	CA-C-N	5.88	132.76	121.54
3	P	1663	GLN	C-N-CA	5.88	132.76	121.54
6	T	411	GLU	N-CA-C	-5.88	98.29	110.80
1	A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	K	97	PHE	N-CA-C	-5.87	104.99	114.09
6	N	411	GLU	N-CA-C	-5.87	98.29	110.80
4	R	220	ASN	N-CA-CB	5.87	120.00	110.43
6	N	394	ASP	CA-C-O	5.87	126.76	120.24
7	V	17	TRP	CB-CA-C	-5.87	101.04	110.79
3	D	1663	GLN	CA-C-N	5.87	132.75	121.54
3	D	1663	GLN	C-N-CA	5.87	132.75	121.54
4	L	157	ASN	CA-C-N	5.87	129.04	120.71
4	L	157	ASN	C-N-CA	5.87	129.04	120.71
1	Q	100	MET	CB-CA-C	-5.87	103.73	111.42
2	U	726	SER	CA-C-N	5.87	128.80	120.53
2	U	726	SER	C-N-CA	5.87	128.80	120.53
6	Z	411	GLU	N-CA-C	-5.87	98.30	110.80
4	L	398	LYS	N-CA-C	5.87	120.30	113.20
5	M	332	PRO	O-C-N	5.87	128.38	121.46
7	J	1466	TRP	O-C-N	-5.86	114.79	122.59
6	H	394	ASP	CA-C-O	5.86	126.75	120.24
6	H	446	ARG	N-CA-C	-5.86	103.87	111.02
7	J	1331	HIS	CB-CA-C	-5.86	101.64	110.90
4	L	428	LYS	N-CA-C	5.86	117.75	111.36
7	J	490	ASP	N-CA-C	-5.86	99.59	108.67
5	G	327	ARG	O-C-N	5.86	130.38	122.59
7	J	17	TRP	N-CA-CB	5.86	118.73	110.12
3	D	1481	VAL	O-C-N	-5.86	116.17	121.91
3	D	1535	THR	N-CA-C	-5.86	104.90	111.28
6	H	411	GLU	N-CA-C	-5.86	98.33	110.80
7	J	170	VAL	CB-CA-C	-5.86	104.49	111.81
1	W	100	MET	CB-CA-C	-5.86	103.75	111.42
4	F	157	ASN	CA-C-N	5.85	129.02	120.71
4	F	157	ASN	C-N-CA	5.85	129.02	120.71
4	F	440	MET	N-CA-C	-5.85	104.81	111.07
5	G	380	ILE	CB-CA-C	-5.85	101.78	111.32
2	I	590	ASP	CB-CA-C	-5.85	109.81	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	R	157	ASN	CA-C-N	5.85	129.02	120.71
4	R	157	ASN	C-N-CA	5.85	129.02	120.71
1	E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	I	726	SER	CA-C-N	5.85	128.78	120.53
2	I	726	SER	C-N-CA	5.85	128.78	120.53
4	X	398	LYS	N-CA-C	5.85	120.28	113.20
4	F	398	LYS	N-CA-C	5.85	120.28	113.20
6	T	446	ARG	N-CA-C	-5.85	103.88	111.02
7	V	490	ASP	N-CA-C	-5.85	99.60	108.67
4	R	398	LYS	N-CA-C	5.85	120.28	113.20
7	J	17	TRP	CB-CA-C	-5.85	101.09	110.79
4	L	440	MET	N-CA-C	-5.85	104.81	111.07
1	B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	F	465	GLN	N-CA-CB	5.84	118.70	109.82
6	N	446	ARG	N-CA-C	-5.84	103.89	111.02
1	W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	F	312	ALA	N-CA-C	-5.84	104.99	111.71
4	L	465	GLN	N-CA-CB	5.84	118.70	109.82
1	Q	97	PHE	N-CA-C	-5.84	105.04	114.09
5	S	309	ASP	N-CA-C	-5.84	104.99	111.71
5	S	327	ARG	O-C-N	5.84	130.36	122.59
1	A	224	GLY	N-CA-C	-5.84	106.59	115.00
6	N	489	ASP	O-C-N	-5.83	116.06	122.07
7	V	1331	HIS	CB-CA-C	-5.83	101.68	110.90
4	X	428	LYS	N-CA-C	5.83	117.72	111.36
6	Z	394	ASP	CA-C-O	5.83	126.71	120.24
7	J	791	VAL	CB-CA-C	-5.83	104.38	112.02
1	B	100	MET	CB-CA-C	-5.83	103.78	111.42
1	B	224	GLY	N-CA-C	-5.83	106.61	115.00
4	X	157	ASN	CA-C-N	5.83	128.99	120.71
4	X	157	ASN	C-N-CA	5.83	128.99	120.71
4	X	312	ALA	N-CA-C	-5.83	105.01	111.71
1	K	224	GLY	N-CA-C	-5.83	106.61	115.00
2	O	590	ASP	CB-CA-C	-5.83	109.84	116.54
1	W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	X	440	MET	N-CA-C	-5.82	104.84	111.07
1	Q	224	GLY	N-CA-C	-5.82	106.62	115.00
4	X	474	LEU	CA-C-N	-5.82	112.48	120.28
4	X	474	LEU	C-N-CA	-5.82	112.48	120.28
2	C	590	ASP	CB-CA-C	-5.82	109.85	116.54
1	K	100	MET	CB-CA-C	-5.82	103.80	111.42
7	J	1412	ARG	CA-C-N	-5.82	112.58	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	1412	ARG	C-N-CA	-5.82	112.58	121.66
7	V	170	VAL	CB-CA-C	-5.82	104.54	111.81
4	R	465	GLN	N-CA-CB	5.82	118.66	109.82
5	G	365	GLU	CA-C-O	-5.81	112.93	119.79
1	A	100	MET	CB-CA-C	-5.81	103.81	111.42
4	L	312	ALA	N-CA-C	-5.81	105.03	111.71
5	M	327	ARG	O-C-N	5.81	130.32	122.59
3	P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	U	590	ASP	CB-CA-C	-5.81	109.86	116.54
5	Y	309	ASP	N-CA-C	-5.81	105.03	111.71
5	M	309	ASP	N-CA-C	-5.81	105.03	111.71
5	G	309	ASP	N-CA-C	-5.81	105.03	111.71
4	X	234	PRO	CB-CA-C	-5.81	101.98	111.56
2	I	345	LEU	N-CA-CB	5.80	118.99	110.57
2	U	345	LEU	N-CA-CB	5.80	118.99	110.57
1	E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	L	248	SER	CA-C-O	-5.80	112.21	120.16
7	V	17	TRP	N-CA-CB	5.80	118.65	110.12
5	Y	327	ARG	O-C-N	5.80	130.31	122.59
3	P	1477	LEU	CA-C-O	-5.80	113.30	119.97
3	D	1482	CYS	N-CA-C	5.80	117.68	111.36
5	S	332	PRO	O-C-N	5.80	128.30	121.46
6	Z	446	ARG	N-CA-C	-5.80	103.95	111.02
5	M	365	GLU	CA-C-O	-5.79	112.95	119.79
4	F	461	ARG	N-CA-C	-5.79	98.46	110.80
4	F	391	ILE	CB-CA-C	-5.79	104.32	112.14
2	O	9	LEU	CB-CA-C	-5.79	101.54	110.81
6	T	394	ASP	CA-C-O	5.79	126.67	120.24
3	D	1477	LEU	CA-C-O	-5.79	113.31	119.97
5	M	369	ASN	N-CA-C	-5.79	105.10	111.82
2	C	345	LEU	N-CA-CB	5.79	118.96	110.57
7	V	791	VAL	CB-CA-C	-5.79	104.44	112.02
7	V	1412	ARG	CA-C-N	-5.79	112.63	121.66
7	V	1412	ARG	C-N-CA	-5.79	112.63	121.66
5	Y	332	PRO	O-C-N	5.79	128.29	121.46
4	R	234	PRO	CB-CA-C	-5.79	102.01	111.56
4	X	410	LEU	CB-CA-C	-5.79	101.18	110.79
4	F	248	SER	CA-C-O	-5.79	112.23	120.16
6	H	489	ASP	O-C-N	-5.79	116.11	122.07
4	L	454	TYR	CB-CA-C	5.79	121.93	110.42
4	R	312	ALA	N-CA-C	-5.79	105.06	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	9	LEU	CB-CA-C	-5.78	101.56	110.81
4	L	234	PRO	CB-CA-C	-5.78	102.02	111.56
3	P	1482	CYS	N-CA-C	5.78	117.66	111.36
7	V	674	GLN	CA-C-N	5.78	127.37	120.14
7	V	674	GLN	C-N-CA	5.78	127.37	120.14
4	X	143	GLN	N-CA-CB	-5.78	101.93	110.49
3	P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	R	474	LEU	CA-C-N	-5.78	112.53	120.28
4	R	474	LEU	C-N-CA	-5.78	112.53	120.28
7	V	704	VAL	N-CA-CB	-5.78	105.94	110.45
7	J	1388	LEU	CA-C-N	5.78	128.82	120.38
7	J	1388	LEU	C-N-CA	5.78	128.82	120.38
4	F	143	GLN	N-CA-CB	-5.78	101.94	110.49
1	K	1206	ILE	CB-CA-C	5.78	121.11	112.16
2	I	299	ILE	CB-CA-C	-5.78	104.25	112.22
3	P	1501	ASP	O-C-N	-5.78	116.00	122.12
4	X	454	TYR	CB-CA-C	5.78	121.92	110.42
4	F	454	TYR	CB-CA-C	5.77	121.91	110.42
4	R	410	LEU	CB-CA-C	-5.77	101.20	110.79
4	F	234	PRO	CB-CA-C	-5.77	102.04	111.56
4	F	428	LYS	N-CA-C	5.77	117.65	111.36
4	F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	Y	398	ALA	CB-CA-C	-5.77	101.04	110.85
7	J	704	VAL	N-CA-CB	-5.77	105.95	110.45
4	R	428	LYS	N-CA-C	5.77	117.65	111.36
5	G	332	PRO	O-C-N	5.77	128.26	121.46
2	O	299	ILE	CB-CA-C	-5.76	104.27	112.22
4	R	248	SER	CA-C-O	-5.76	112.26	120.16
4	X	391	ILE	CB-CA-C	-5.76	104.36	112.14
5	S	398	ALA	CB-CA-C	-5.76	101.06	110.85
7	V	431	ILE	CA-C-N	-5.76	117.26	123.08
7	V	431	ILE	C-N-CA	-5.76	117.26	123.08
5	G	303	ARG	N-CA-C	-5.76	105.14	111.82
7	J	431	ILE	CA-C-N	-5.76	117.26	123.08
7	J	431	ILE	C-N-CA	-5.76	117.26	123.08
7	J	674	GLN	CA-C-N	5.76	127.34	120.14
7	J	674	GLN	C-N-CA	5.76	127.34	120.14
4	L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	R	454	TYR	CB-CA-C	5.76	121.88	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Y	369	ASN	N-CA-C	-5.76	105.14	111.82
5	Y	365	GLU	CA-C-O	-5.76	113.00	119.79
4	L	410	LEU	CB-CA-C	-5.76	101.23	110.79
4	R	461	ARG	N-CA-C	-5.76	98.54	110.80
3	P	1481	VAL	O-C-N	-5.75	116.27	121.91
1	Q	535	ILE	CB-CA-C	-5.75	105.57	112.19
1	Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	Q	800	GLU	C-N-CA	-5.75	112.21	122.45
4	X	248	SER	CA-C-O	-5.75	112.28	120.16
4	X	461	ARG	N-CA-C	-5.75	98.55	110.80
5	G	382	PRO	CA-C-N	5.75	128.46	120.29
5	G	382	PRO	C-N-CA	5.75	128.46	120.29
5	M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	C	299	ILE	CB-CA-C	-5.75	104.28	112.22
7	J	479	LYS	N-CA-C	-5.75	103.34	110.41
7	V	1388	LEU	CA-C-N	5.75	128.77	120.38
7	V	1388	LEU	C-N-CA	5.75	128.77	120.38
4	X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	L	207	GLN	CB-CA-C	-5.75	100.18	110.70
2	C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	U	299	ILE	CB-CA-C	-5.75	104.29	112.22
4	L	391	ILE	CB-CA-C	-5.74	104.39	112.14
3	D	1501	ASP	O-C-N	-5.74	116.03	122.12
5	G	373	THR	CB-CA-C	5.74	120.61	110.85
5	G	328	THR	O-C-N	-5.74	116.03	122.34
5	G	398	ALA	CB-CA-C	-5.74	101.09	110.85
4	L	143	GLN	N-CA-CB	-5.74	101.99	110.49
5	S	369	ASN	N-CA-C	-5.74	105.16	111.82
5	M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	N	377	ARG	CA-C-O	5.74	128.72	120.51
6	T	489	ASP	O-C-N	-5.74	116.12	122.09
1	W	1206	ILE	CB-CA-C	5.74	121.06	112.16
4	X	446	ALA	N-CA-CB	5.74	118.33	110.01
3	D	1450	GLU	O-C-N	5.74	130.22	122.59
5	M	382	PRO	CA-C-N	5.74	128.43	120.29
5	M	382	PRO	C-N-CA	5.74	128.43	120.29
5	M	408	GLU	CA-C-O	-5.74	114.34	120.42
6	T	377	ARG	CA-C-O	5.74	128.71	120.51
5	Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	D	1434	ARG	N-CA-C	-5.73	101.87	109.84
1	E	1206	ILE	CB-CA-C	5.73	121.05	112.16
1	K	535	ILE	CB-CA-C	-5.73	105.60	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	P	1450	GLU	O-C-N	5.73	130.21	122.59
1	Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
1	K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	W	333	THR	N-CA-C	-5.73	105.12	111.71
1	B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	R	391	ILE	CB-CA-C	-5.73	104.41	112.14
5	S	365	GLU	CA-C-O	-5.73	113.03	119.79
5	Y	328	THR	O-C-N	-5.73	116.04	122.34
1	B	535	ILE	CB-CA-C	-5.73	105.61	112.19
1	W	535	ILE	CB-CA-C	-5.73	105.61	112.19
3	D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	E	333	THR	N-CA-C	-5.72	105.13	111.71
3	P	1546	LEU	O-C-N	5.72	128.92	122.22
5	S	382	PRO	CA-C-N	5.72	128.42	120.29
5	S	382	PRO	C-N-CA	5.72	128.42	120.29
1	B	333	THR	N-CA-C	-5.72	105.13	111.71
4	F	410	LEU	CB-CA-C	-5.72	101.29	110.79
7	J	586	LEU	N-CA-C	5.72	119.52	112.54
6	Z	489	ASP	O-C-N	-5.72	116.14	122.09
5	G	369	ASN	N-CA-C	-5.72	105.19	111.82
1	K	333	THR	N-CA-C	-5.72	105.13	111.71
5	M	361	ARG	N-CA-CB	-5.72	101.69	110.16
6	Z	381	LYS	CA-C-N	5.72	129.51	120.47
6	Z	381	LYS	C-N-CA	5.72	129.51	120.47
5	S	361	ARG	N-CA-CB	-5.72	101.70	110.16
4	R	143	GLN	N-CA-CB	-5.72	102.03	110.49
1	E	535	ILE	CB-CA-C	-5.71	105.62	112.19
3	D	1546	LEU	O-C-N	5.71	128.90	122.22
2	U	9	LEU	CB-CA-C	-5.71	101.67	110.81
7	V	479	LYS	N-CA-C	-5.71	103.38	110.41
1	E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	E	800	GLU	C-N-CA	-5.71	112.28	122.45
1	Q	333	THR	N-CA-C	-5.71	105.14	111.71
4	R	207	GLN	CB-CA-C	-5.71	100.25	110.70
5	S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	W	800	GLU	C-N-CA	-5.71	112.28	122.45
6	Z	353	GLN	CA-C-N	5.71	127.93	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	353	GLN	C-N-CA	5.71	127.93	120.28
6	Z	377	ARG	CA-C-O	5.71	128.68	120.51
4	L	446	ALA	N-CA-CB	5.71	118.29	110.01
5	S	373	THR	CB-CA-C	5.71	120.56	110.85
4	X	477	LEU	N-CA-CB	5.71	118.51	110.12
5	Y	373	THR	CB-CA-C	5.71	120.56	110.85
4	L	152	LYS	N-CA-CB	5.71	118.42	109.69
2	O	492	VAL	CB-CA-C	-5.70	104.44	112.14
7	V	52	PRO	O-C-N	5.70	123.83	121.15
4	L	436	SER	O-C-N	-5.70	115.30	122.20
4	L	477	LEU	N-CA-CB	5.70	118.50	110.12
6	Z	387	LYS	CA-C-O	5.70	126.59	120.55
2	C	492	VAL	CB-CA-C	-5.70	104.45	112.14
7	J	52	PRO	N-CA-CB	5.70	106.18	103.22
7	V	586	LEU	N-CA-C	5.70	119.49	112.54
6	N	381	LYS	CA-C-N	5.70	129.47	120.47
6	N	381	LYS	C-N-CA	5.70	129.47	120.47
3	P	1434	ARG	N-CA-C	-5.70	101.92	109.84
2	U	492	VAL	CB-CA-C	-5.70	104.45	112.14
4	X	207	GLN	CB-CA-C	-5.70	100.28	110.70
4	F	207	GLN	CB-CA-C	-5.69	100.28	110.70
5	M	373	THR	CB-CA-C	5.69	120.53	110.85
6	T	353	GLN	CA-C-N	5.69	127.91	120.28
6	T	353	GLN	C-N-CA	5.69	127.91	120.28
1	A	333	THR	N-CA-C	-5.69	105.16	111.71
5	G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	N	353	GLN	CA-C-N	5.69	127.91	120.28
6	N	353	GLN	C-N-CA	5.69	127.91	120.28
1	A	535	ILE	CB-CA-C	-5.69	105.65	112.19
4	X	152	LYS	N-CA-CB	5.69	118.39	109.69
4	F	152	LYS	N-CA-CB	5.69	118.39	109.69
4	F	436	SER	O-C-N	-5.69	115.32	122.20
4	F	483	ASP	CA-C-N	5.69	127.83	120.44
4	F	483	ASP	C-N-CA	5.69	127.83	120.44
4	F	471	GLN	O-C-N	5.69	128.63	122.15
3	P	494	LEU	N-CA-CB	5.69	118.41	109.94
7	J	52	PRO	O-C-N	5.68	123.82	121.15
4	F	477	LEU	N-CA-CB	5.68	118.47	110.12
5	Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
6	H	377	ARG	CA-C-O	5.68	128.63	120.51
4	R	152	LYS	N-CA-CB	5.68	118.38	109.69
2	I	492	VAL	CB-CA-C	-5.68	104.48	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	483	ASP	CA-C-N	5.68	127.82	120.44
4	L	483	ASP	C-N-CA	5.68	127.82	120.44
5	Y	408	GLU	CA-C-O	-5.68	114.40	120.42
4	F	307	ILE	CA-C-N	5.67	128.48	120.42
4	F	307	ILE	C-N-CA	5.67	128.48	120.42
2	C	482	MET	CA-C-N	5.67	131.91	121.70
2	C	482	MET	C-N-CA	5.67	131.91	121.70
2	O	482	MET	CA-C-N	5.67	131.91	121.70
2	O	482	MET	C-N-CA	5.67	131.91	121.70
5	S	328	THR	O-C-N	-5.67	116.10	122.34
4	F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	K	312	MET	CA-C-N	5.67	131.90	121.70
1	K	312	MET	C-N-CA	5.67	131.90	121.70
4	R	483	ASP	CA-C-N	5.67	127.81	120.44
4	R	483	ASP	C-N-CA	5.67	127.81	120.44
5	Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	Y	382	PRO	C-N-CA	5.67	128.34	120.29
6	H	381	LYS	CA-C-N	5.67	129.42	120.47
6	H	381	LYS	C-N-CA	5.67	129.42	120.47
1	W	312	MET	CA-C-N	5.67	131.90	121.70
1	W	312	MET	C-N-CA	5.67	131.90	121.70
3	D	1451	ARG	N-CA-C	-5.66	98.74	110.80
1	E	312	MET	CA-C-N	5.66	131.89	121.70
1	E	312	MET	C-N-CA	5.66	131.89	121.70
6	T	381	LYS	CA-C-N	5.66	129.42	120.47
6	T	381	LYS	C-N-CA	5.66	129.42	120.47
2	U	482	MET	CA-C-N	5.66	131.90	121.70
2	U	482	MET	C-N-CA	5.66	131.90	121.70
4	X	483	ASP	CA-C-N	5.66	127.80	120.44
4	X	483	ASP	C-N-CA	5.66	127.80	120.44
1	A	312	MET	CA-C-N	5.66	131.89	121.70
1	A	312	MET	C-N-CA	5.66	131.89	121.70
1	B	312	MET	CA-C-N	5.66	131.89	121.70
1	B	312	MET	C-N-CA	5.66	131.89	121.70
5	M	328	THR	O-C-N	-5.66	116.11	122.34
3	P	1451	ARG	N-CA-C	-5.66	98.74	110.80
4	F	267	GLN	CB-CA-C	5.66	119.75	109.62
2	I	482	MET	CA-C-N	5.66	131.88	121.70
2	I	482	MET	C-N-CA	5.66	131.88	121.70
1	Q	312	MET	CA-C-N	5.66	131.89	121.70
1	Q	312	MET	C-N-CA	5.66	131.89	121.70
5	G	408	GLU	CA-C-O	-5.66	114.42	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	482	MET	N-CA-C	5.66	122.85	110.80
2	O	11	GLN	CA-C-N	5.66	128.18	120.54
2	O	11	GLN	C-N-CA	5.66	128.18	120.54
2	O	482	MET	N-CA-C	5.66	122.84	110.80
4	L	267	GLN	CB-CA-C	5.65	119.74	109.62
5	M	329	GLN	O-C-N	5.65	129.84	122.15
4	R	446	ALA	N-CA-CB	5.65	118.21	110.01
4	X	471	GLN	O-C-N	5.65	128.59	122.15
4	L	307	ILE	CA-C-N	5.65	128.44	120.42
4	L	307	ILE	C-N-CA	5.65	128.44	120.42
4	L	471	GLN	O-C-N	5.65	128.59	122.15
4	R	267	GLN	CB-CA-C	5.65	119.73	109.62
4	R	334	LEU	N-CA-C	-5.65	104.49	111.33
5	S	408	GLU	CA-C-O	-5.65	114.43	120.42
4	X	267	GLN	CB-CA-C	5.65	119.73	109.62
1	E	1237	SER	N-CA-C	-5.65	105.03	111.07
2	U	28	HIS	CA-C-O	5.65	127.49	121.11
2	C	482	MET	N-CA-C	5.64	122.82	110.80
6	N	435	LYS	N-CA-C	-5.64	105.13	111.28
4	L	334	LEU	N-CA-C	-5.64	104.50	111.33
4	R	471	GLN	O-C-N	5.64	128.58	122.15
3	D	494	LEU	N-CA-CB	5.64	118.34	109.94
2	C	28	HIS	CA-C-O	5.64	127.48	121.11
5	G	350	VAL	CB-CA-C	-5.64	104.75	111.97
2	U	1	MET	CB-CA-C	-5.64	99.39	110.10
1	B	230	GLY	N-CA-C	-5.63	104.85	112.57
1	E	442	GLN	CA-C-N	5.63	135.55	121.80
1	E	442	GLN	C-N-CA	5.63	135.55	121.80
7	J	908	LYS	CA-C-N	-5.63	114.29	122.69
7	J	908	LYS	C-N-CA	-5.63	114.29	122.69
6	T	387	LYS	CA-C-O	5.63	126.52	120.55
2	U	482	MET	N-CA-C	5.63	122.80	110.80
7	V	908	LYS	CA-C-N	-5.63	114.30	122.69
7	V	908	LYS	C-N-CA	-5.63	114.30	122.69
1	K	1237	SER	N-CA-C	-5.63	105.04	111.07
6	H	353	GLN	CA-C-N	5.63	127.83	120.28
6	H	353	GLN	C-N-CA	5.63	127.83	120.28
1	Q	230	GLY	N-CA-C	-5.63	104.85	112.57
4	R	477	LEU	N-CA-CB	5.63	118.40	110.12
7	V	867	LEU	CA-C-N	-5.63	112.71	118.85
7	V	867	LEU	C-N-CA	-5.63	112.71	118.85
1	Q	442	GLN	CA-C-N	5.63	135.53	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	442	GLN	C-N-CA	5.63	135.53	121.80
1	W	442	GLN	CA-C-N	5.63	135.53	121.80
1	W	442	GLN	C-N-CA	5.63	135.53	121.80
1	B	442	GLN	CA-C-N	5.63	135.53	121.80
1	B	442	GLN	C-N-CA	5.63	135.53	121.80
2	I	28	HIS	CA-C-O	5.63	127.47	121.11
1	W	1237	SER	N-CA-C	-5.62	105.05	111.07
2	I	1	MET	CB-CA-C	-5.62	99.41	110.10
4	L	474	LEU	CA-C-O	-5.62	114.46	120.42
5	M	350	VAL	CB-CA-C	-5.62	104.77	111.97
6	T	435	LYS	N-CA-C	-5.62	105.15	111.28
1	K	442	GLN	CA-C-N	5.62	135.51	121.80
1	K	442	GLN	C-N-CA	5.62	135.51	121.80
5	Y	278	LYS	CA-C-N	5.62	127.75	120.44
5	Y	278	LYS	C-N-CA	5.62	127.75	120.44
1	A	442	GLN	CA-C-N	5.62	135.50	121.80
1	A	442	GLN	C-N-CA	5.62	135.50	121.80
2	U	577	SER	N-CA-C	-5.62	104.78	111.69
2	O	1	MET	CB-CA-C	-5.61	99.43	110.10
4	R	365	GLN	CA-C-O	-5.61	114.92	120.70
3	P	1502	ARG	O-C-N	5.61	128.55	122.15
1	E	238	VAL	CB-CA-C	-5.61	102.28	110.81
4	F	474	LEU	CA-C-O	-5.61	114.47	120.42
2	O	437	LEU	N-CA-C	-5.61	105.16	111.28
1	W	230	GLY	N-CA-C	-5.61	104.88	112.57
4	X	474	LEU	CA-C-O	-5.61	114.47	120.42
4	F	334	LEU	N-CA-C	-5.61	104.54	111.33
1	A	230	GLY	N-CA-C	-5.61	104.89	112.57
2	I	577	SER	N-CA-C	-5.61	104.79	111.69
7	J	1175	GLY	N-CA-C	-5.61	104.91	112.14
4	R	307	ILE	CA-C-N	5.61	128.38	120.42
4	R	307	ILE	C-N-CA	5.61	128.38	120.42
7	V	292	GLU	CB-CA-C	-5.61	99.26	110.42
4	X	307	ILE	CA-C-N	5.61	128.38	120.42
4	X	307	ILE	C-N-CA	5.61	128.38	120.42
6	Z	435	LYS	N-CA-C	-5.61	105.17	111.28
1	K	238	VAL	CB-CA-C	-5.60	102.29	110.81
4	R	474	LEU	CA-C-O	-5.60	114.48	120.42
2	C	437	LEU	N-CA-C	-5.60	105.17	111.28
1	K	440	PRO	N-CA-C	-5.60	106.86	113.86
3	P	320	TRP	N-CA-C	5.60	118.51	107.98
1	Q	1237	SER	N-CA-C	-5.60	105.08	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	292	GLU	CB-CA-C	-5.60	99.27	110.42
4	L	438	ILE	CB-CA-C	-5.60	104.58	112.14
7	J	866	ALA	CA-C-N	5.60	126.72	119.78
7	J	866	ALA	C-N-CA	5.60	126.72	119.78
4	X	334	LEU	N-CA-C	-5.60	104.56	111.33
2	C	577	SER	N-CA-C	-5.60	104.81	111.69
4	X	436	SER	O-C-N	-5.60	115.43	122.20
1	E	440	PRO	N-CA-C	-5.60	106.86	113.86
5	G	278	LYS	CA-C-N	5.60	127.71	120.44
5	G	278	LYS	C-N-CA	5.60	127.71	120.44
7	V	1175	GLY	N-CA-C	-5.60	104.92	112.14
1	B	440	PRO	N-CA-C	-5.59	106.87	113.86
6	H	387	LYS	CA-C-O	5.59	126.48	120.55
6	H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	S	329	GLN	O-C-N	5.59	129.76	122.15
4	F	438	ILE	CB-CA-C	-5.59	104.59	112.14
1	B	238	VAL	CB-CA-C	-5.59	102.31	110.81
6	N	430	ARG	CA-C-O	5.59	126.55	120.12
4	R	323	ILE	N-CA-CB	5.59	116.42	111.67
3	P	1655	THR	N-CA-C	-5.59	104.81	111.69
4	R	438	ILE	CB-CA-C	-5.59	104.59	112.14
2	U	437	LEU	N-CA-C	-5.59	105.19	111.28
1	A	440	PRO	N-CA-C	-5.59	106.88	113.86
4	F	471	GLN	N-CA-C	-5.59	105.27	111.36
6	T	430	ARG	CA-C-O	5.59	126.55	120.12
3	D	320	TRP	N-CA-C	5.58	118.47	107.98
2	I	11	GLN	CA-C-N	5.58	128.08	120.54
2	I	11	GLN	C-N-CA	5.58	128.08	120.54
5	Y	329	GLN	O-C-N	5.58	129.74	122.15
3	D	1502	ARG	O-C-N	5.58	128.51	122.15
2	O	577	SER	N-CA-C	-5.58	104.82	111.69
1	Q	440	PRO	N-CA-C	-5.58	106.88	113.86
2	U	11	GLN	CA-C-N	5.58	128.07	120.54
2	U	11	GLN	C-N-CA	5.58	128.07	120.54
1	E	230	GLY	N-CA-C	-5.58	104.92	112.57
5	M	304	ASN	N-CA-CB	5.58	119.65	110.39
7	V	52	PRO	N-CA-CB	5.58	106.12	103.22
4	F	323	ILE	N-CA-CB	5.58	116.41	111.67
5	G	304	ASN	N-CA-CB	5.58	119.65	110.39
5	G	329	GLN	O-C-N	5.58	129.74	122.15
4	L	416	THR	O-C-N	5.58	127.82	122.07
4	R	436	SER	O-C-N	-5.58	115.45	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1	MET	CB-CA-C	-5.58	99.51	110.10
2	I	437	LEU	N-CA-C	-5.58	105.20	111.28
7	J	1174	LEU	CA-C-N	-5.58	115.04	120.34
7	J	1174	LEU	C-N-CA	-5.58	115.04	120.34
6	H	430	ARG	CA-C-O	5.57	126.53	120.12
1	K	230	GLY	N-CA-C	-5.57	104.93	112.57
4	R	471	GLN	N-CA-C	-5.57	105.28	111.36
1	W	440	PRO	N-CA-C	-5.57	106.89	113.86
1	E	407	LYS	CA-C-N	5.57	129.27	120.47
1	E	407	LYS	C-N-CA	5.57	129.27	120.47
5	S	350	VAL	CB-CA-C	-5.57	104.84	111.97
2	U	305	LEU	CA-C-N	5.57	126.80	119.84
2	U	305	LEU	C-N-CA	5.57	126.80	119.84
7	V	866	ALA	CA-C-N	5.57	126.69	119.78
7	V	866	ALA	C-N-CA	5.57	126.69	119.78
5	Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
6	N	387	LYS	CA-C-O	5.57	126.45	120.55
2	C	360	ASP	CA-C-N	-5.57	114.66	123.12
2	C	360	ASP	C-N-CA	-5.57	114.66	123.12
4	X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	C	215	LEU	CA-C-N	5.57	132.17	121.54
2	C	215	LEU	C-N-CA	5.57	132.17	121.54
1	K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	L	323	ILE	N-CA-CB	5.57	116.40	111.67
5	S	304	ASN	N-CA-CB	5.57	119.63	110.39
7	V	1174	LEU	CA-C-N	-5.57	115.05	120.34
7	V	1174	LEU	C-N-CA	-5.57	115.05	120.34
6	Z	430	ARG	CA-C-O	5.57	126.52	120.12
2	I	215	LEU	CA-C-N	5.56	132.17	121.54
2	I	215	LEU	C-N-CA	5.56	132.17	121.54
7	J	867	LEU	CA-C-N	-5.56	112.79	118.85
7	J	867	LEU	C-N-CA	-5.56	112.79	118.85
1	K	407	LYS	CA-C-N	5.56	129.26	120.47
1	K	407	LYS	C-N-CA	5.56	129.26	120.47
1	K	920	TYR	N-CA-CB	5.56	118.30	110.12
6	N	390	ASP	CA-C-N	-5.56	112.27	120.28
6	N	390	ASP	C-N-CA	-5.56	112.27	120.28
4	R	416	THR	O-C-N	5.56	127.80	122.07
1	B	407	LYS	CA-C-N	5.56	129.25	120.47
1	B	407	LYS	C-N-CA	5.56	129.25	120.47
4	F	365	GLN	CA-C-O	-5.56	114.98	120.70
1	W	238	VAL	CB-CA-C	-5.56	102.36	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	S	278	LYS	CA-C-N	5.56	127.66	120.44
5	S	278	LYS	C-N-CA	5.56	127.66	120.44
2	U	360	ASP	CA-C-N	-5.56	114.67	123.12
2	U	360	ASP	C-N-CA	-5.56	114.67	123.12
2	I	305	LEU	CA-C-N	5.55	126.78	119.84
2	I	305	LEU	C-N-CA	5.55	126.78	119.84
2	C	11	GLN	CA-C-N	5.55	128.04	120.54
2	C	11	GLN	C-N-CA	5.55	128.04	120.54
2	O	28	HIS	N-CA-C	5.55	118.61	109.72
6	T	390	ASP	CA-C-N	-5.55	112.28	120.28
6	T	390	ASP	C-N-CA	-5.55	112.28	120.28
4	X	492	GLU	CA-C-O	-5.55	112.57	120.51
7	J	165	LEU	CB-CA-C	-5.55	102.17	110.88
2	O	305	LEU	CA-C-N	5.55	126.78	119.84
2	O	305	LEU	C-N-CA	5.55	126.78	119.84
2	U	215	LEU	CA-C-N	5.55	132.14	121.54
2	U	215	LEU	C-N-CA	5.55	132.14	121.54
7	V	165	LEU	CB-CA-C	-5.55	102.16	110.88
7	V	659	ASN	CA-C-N	5.55	132.14	121.54
7	V	659	ASN	C-N-CA	5.55	132.14	121.54
5	G	383	GLN	N-CA-C	-5.55	105.31	111.36
7	J	1467	HIS	N-CA-CB	5.55	119.94	110.50
5	M	331	THR	CA-C-N	-5.55	114.67	120.38
5	M	331	THR	C-N-CA	-5.55	114.67	120.38
2	O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	O	360	ASP	C-N-CA	-5.55	114.69	123.12
3	D	1655	THR	N-CA-C	-5.55	104.87	111.69
1	E	443	LYS	N-CA-CB	5.55	120.25	110.37
1	B	443	LYS	N-CA-CB	5.55	120.24	110.37
5	M	278	LYS	CA-C-N	5.55	127.65	120.44
5	M	278	LYS	C-N-CA	5.55	127.65	120.44
4	X	471	GLN	N-CA-C	-5.55	105.31	111.36
1	W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	Y	304	ASN	N-CA-CB	5.54	119.59	110.39
5	Y	331	THR	CA-C-N	-5.54	114.67	120.38
5	Y	331	THR	C-N-CA	-5.54	114.67	120.38
2	C	394	ILE	CA-C-N	5.54	127.26	120.22
2	C	394	ILE	C-N-CA	5.54	127.26	120.22
2	O	215	LEU	CA-C-N	5.54	132.13	121.54
2	O	215	LEU	C-N-CA	5.54	132.13	121.54
1	Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	Q	855	ILE	N-CA-CB	5.54	118.90	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	V	1467	HIS	N-CA-CB	5.54	119.92	110.50
4	X	210	VAL	CA-C-O	-5.54	114.78	120.71
1	A	443	LYS	N-CA-CB	5.54	120.24	110.37
4	R	307	ILE	CB-CA-C	-5.54	104.57	112.22
4	X	416	THR	O-C-N	5.54	127.78	122.07
4	L	443	HIS	CB-CA-C	5.54	121.44	110.42
1	E	920	TYR	N-CA-CB	5.54	118.26	110.12
7	J	581	SER	N-CA-C	-5.54	99.01	110.80
3	P	522	ASN	N-CA-C	5.54	117.78	111.02
4	F	443	HIS	CB-CA-C	5.53	121.43	110.42
2	I	28	HIS	N-CA-C	5.53	118.57	109.72
2	U	28	HIS	N-CA-C	5.53	118.57	109.72
1	W	407	LYS	CA-C-N	5.53	129.21	120.47
1	W	407	LYS	C-N-CA	5.53	129.21	120.47
4	F	416	THR	O-C-N	5.53	127.77	122.07
5	S	383	GLN	N-CA-C	-5.53	105.33	111.36
1	A	407	LYS	CA-C-N	5.53	129.21	120.47
1	A	407	LYS	C-N-CA	5.53	129.21	120.47
5	G	331	THR	CA-C-N	-5.53	114.68	120.38
5	G	331	THR	C-N-CA	-5.53	114.68	120.38
4	R	443	HIS	CB-CA-C	5.53	121.43	110.42
2	U	394	ILE	CA-C-N	5.53	127.24	120.22
2	U	394	ILE	C-N-CA	5.53	127.24	120.22
7	V	374	THR	CA-C-N	-5.53	111.48	120.72
7	V	374	THR	C-N-CA	-5.53	111.48	120.72
4	X	443	HIS	CB-CA-C	5.53	121.42	110.42
3	D	522	ASN	N-CA-C	5.53	117.77	111.02
7	J	1465	GLU	CA-C-N	5.53	132.10	121.54
7	J	1465	GLU	C-N-CA	5.53	132.10	121.54
1	Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	W	920	TYR	N-CA-CB	5.53	118.25	110.12
2	I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	Z	390	ASP	CA-C-N	-5.53	112.32	120.28
6	Z	390	ASP	C-N-CA	-5.53	112.32	120.28
4	L	475	SER	O-C-N	-5.53	116.26	122.12
6	N	353	GLN	CA-C-O	-5.53	114.69	120.55
2	O	28	HIS	CA-C-O	5.53	127.35	121.11
2	U	304	PRO	N-CA-C	-5.53	106.00	113.40
2	O	179	ASP	N-CA-C	-5.52	99.03	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	394	ILE	CA-C-N	5.52	127.24	120.22
2	O	394	ILE	C-N-CA	5.52	127.24	120.22
1	Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	Q	407	LYS	C-N-CA	5.52	129.20	120.47
6	H	395	PHE	N-CA-C	-5.52	104.90	111.69
7	J	659	ASN	CA-C-N	5.52	132.09	121.54
7	J	659	ASN	C-N-CA	5.52	132.09	121.54
5	M	383	GLN	N-CA-C	-5.52	105.34	111.36
6	T	353	GLN	CA-C-O	-5.52	114.70	120.55
6	Z	334	GLU	CA-C-N	-5.52	113.09	120.54
6	Z	334	GLU	C-N-CA	-5.52	113.09	120.54
4	L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	R	210	VAL	CA-C-O	-5.52	114.81	120.71
5	S	331	THR	CA-C-N	-5.52	114.70	120.38
5	S	331	THR	C-N-CA	-5.52	114.70	120.38
4	X	323	ILE	N-CA-CB	5.52	116.36	111.67
7	V	1465	GLU	CA-C-N	5.52	132.08	121.54
7	V	1465	GLU	C-N-CA	5.52	132.08	121.54
1	K	1055	VAL	CA-C-N	5.51	128.12	120.29
1	K	1055	VAL	C-N-CA	5.51	128.12	120.29
4	L	365	GLN	CA-C-O	-5.51	115.02	120.70
2	U	179	ASP	N-CA-C	-5.51	99.05	110.80
4	F	307	ILE	CB-CA-C	-5.51	104.61	112.22
4	F	492	GLU	CA-C-O	-5.51	112.63	120.51
2	I	179	ASP	N-CA-C	-5.51	99.06	110.80
2	U	283	LEU	N-CA-C	-5.51	100.90	109.72
7	V	581	SER	N-CA-C	-5.51	99.06	110.80
5	S	318	GLU	N-CA-CB	5.51	118.82	110.28
4	X	307	ILE	CB-CA-C	-5.51	104.62	112.22
5	S	275	MET	CA-C-O	-5.51	113.64	119.97
2	O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	C	28	HIS	N-CA-C	5.50	118.53	109.72
2	C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	C	305	LEU	CA-C-N	5.50	126.72	119.84
2	C	305	LEU	C-N-CA	5.50	126.72	119.84
2	O	4	GLU	N-CA-CB	5.50	118.32	111.00
1	Q	1233	VAL	N-CA-C	-5.50	100.77	108.80
2	I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	R	492	GLU	CA-C-O	-5.50	112.65	120.51
4	X	437	GLN	CB-CA-C	-5.50	102.25	110.88
4	X	490	LEU	O-C-N	-5.50	115.51	122.27
2	C	179	ASP	N-CA-C	-5.50	99.09	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	W	1233	VAL	N-CA-C	-5.50	100.77	108.80
4	X	365	GLN	CA-C-O	-5.50	115.04	120.70
1	E	1233	VAL	N-CA-C	-5.49	100.78	108.80
6	H	353	GLN	CA-C-O	-5.49	114.73	120.55
2	I	394	ILE	CA-C-N	5.49	127.20	120.22
2	I	394	ILE	C-N-CA	5.49	127.20	120.22
6	T	395	PHE	N-CA-C	-5.49	104.93	111.69
5	Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	C	283	LEU	N-CA-C	-5.49	100.93	109.72
4	L	243	TYR	CA-C-N	-5.49	115.31	122.94
4	L	243	TYR	C-N-CA	-5.49	115.31	122.94
4	L	307	ILE	CB-CA-C	-5.49	104.64	112.22
2	O	283	LEU	N-CA-C	-5.49	100.94	109.72
5	Y	275	MET	CA-C-O	-5.49	113.66	119.97
6	H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	H	390	ASP	C-N-CA	-5.49	112.38	120.28
7	J	374	THR	CA-C-N	-5.49	111.56	120.72
7	J	374	THR	C-N-CA	-5.49	111.56	120.72
4	R	243	TYR	CA-C-N	-5.49	115.31	122.94
4	R	243	TYR	C-N-CA	-5.49	115.31	122.94
1	K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
1	Q	1055	VAL	CA-C-N	5.48	128.07	120.29
1	Q	1055	VAL	C-N-CA	5.48	128.07	120.29
5	S	290	LEU	CB-CA-C	-5.48	101.69	110.79
6	T	466	ASP	CA-C-O	-5.48	112.67	120.51
4	L	339	VAL	N-CA-C	-5.48	105.19	110.72
4	L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	M	275	MET	CA-C-O	-5.48	113.67	119.97
6	N	395	PHE	N-CA-C	-5.48	104.95	111.69
6	T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	T	334	GLU	C-N-CA	-5.48	113.14	120.54
1	W	1055	VAL	CA-C-N	5.48	128.07	120.29
1	W	1055	VAL	C-N-CA	5.48	128.07	120.29
1	B	316	ALA	N-CA-C	-5.48	102.78	110.50
1	E	1055	VAL	CA-C-N	5.48	128.07	120.29
1	E	1055	VAL	C-N-CA	5.48	128.07	120.29
4	R	490	LEU	O-C-N	-5.48	115.53	122.27
3	D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	N	466	ASP	CA-C-O	-5.47	112.68	120.51
1	Q	316	ALA	N-CA-C	-5.47	102.78	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	316	ALA	N-CA-C	-5.47	102.78	110.50
6	Z	353	GLN	CA-C-O	-5.47	114.75	120.55
4	R	437	GLN	CB-CA-C	-5.47	102.29	110.88
5	G	290	LEU	CB-CA-C	-5.47	101.71	110.79
5	M	290	LEU	CB-CA-C	-5.47	101.71	110.79
2	U	4	GLU	N-CA-CB	5.47	118.28	111.00
3	D	1507	ASP	O-C-N	5.47	129.37	122.37
6	H	466	ASP	CA-C-O	-5.47	112.69	120.51
5	G	405	SER	CA-C-N	5.47	127.56	120.56
5	G	405	SER	C-N-CA	5.47	127.56	120.56
5	Y	405	SER	CA-C-N	5.47	127.56	120.56
5	Y	405	SER	C-N-CA	5.47	127.56	120.56
1	E	316	ALA	N-CA-C	-5.47	102.79	110.50
1	K	316	ALA	N-CA-C	-5.47	102.79	110.50
3	D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	L	298	GLN	O-C-N	5.46	129.97	122.59
4	L	437	GLN	CB-CA-C	-5.46	102.30	110.88
6	Z	395	PHE	N-CA-C	-5.46	104.97	111.69
2	O	484	ARG	CB-CA-C	-5.46	99.72	110.10
1	A	316	ALA	N-CA-C	-5.46	102.80	110.50
4	F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	L	490	LEU	O-C-N	-5.46	115.55	122.27
4	X	305	ASP	N-CA-C	-5.46	102.77	109.65
4	F	458	ASP	CB-CA-C	-5.46	99.56	110.42
4	F	490	LEU	O-C-N	-5.46	115.56	122.27
3	P	1507	ASP	O-C-N	5.46	129.36	122.37
2	C	484	ARG	CB-CA-C	-5.46	99.73	110.10
4	F	210	VAL	CA-C-O	-5.46	114.87	120.71
2	I	484	ARG	CB-CA-C	-5.46	99.73	110.10
3	P	265	ASP	CA-C-N	5.46	128.14	120.28
3	P	265	ASP	C-N-CA	5.46	128.14	120.28
2	C	596	GLY	N-CA-C	-5.46	104.25	112.60
6	H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	H	334	GLU	C-N-CA	-5.46	113.18	120.54
5	Y	318	GLU	N-CA-CB	5.45	118.73	110.28
2	U	484	ARG	CB-CA-C	-5.45	99.75	110.10
6	Z	399	GLN	N-CA-C	-5.45	105.44	111.71
6	N	399	GLN	N-CA-C	-5.45	105.45	111.71
4	L	210	VAL	CA-C-O	-5.45	114.88	120.71
4	X	339	VAL	N-CA-C	-5.45	105.22	110.72
2	I	4	GLU	N-CA-CB	5.44	118.24	111.00
3	D	265	ASP	CA-C-N	5.44	128.12	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	265	ASP	C-N-CA	5.44	128.12	120.28
3	D	1451	ARG	O-C-N	5.44	129.83	122.59
4	L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	N	365	LEU	CB-CA-C	-5.44	102.33	110.88
6	Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	R	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	I	396	ARG	N-CA-C	-5.44	104.40	111.74
4	L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	S	405	SER	CA-C-N	5.44	127.52	120.56
5	S	405	SER	C-N-CA	5.44	127.52	120.56
6	Z	365	LEU	CB-CA-C	-5.44	102.34	110.88
2	C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	F	243	TYR	CA-C-N	-5.43	115.39	122.94
4	F	243	TYR	C-N-CA	-5.43	115.39	122.94
4	F	305	ASP	N-CA-C	-5.43	102.80	109.65
6	H	365	LEU	CB-CA-C	-5.43	102.35	110.88
4	R	305	ASP	N-CA-C	-5.43	102.81	109.65
2	I	596	GLY	N-CA-C	-5.43	104.29	112.60
2	O	596	GLY	N-CA-C	-5.43	104.29	112.60
4	X	243	TYR	CA-C-N	-5.43	115.39	122.94
4	X	243	TYR	C-N-CA	-5.43	115.39	122.94
5	G	275	MET	CA-C-O	-5.43	113.73	119.97
4	X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	X	475	SER	O-C-N	-5.43	116.37	122.12
6	H	421	ILE	N-CA-C	-5.43	105.08	110.62
2	C	396	ARG	N-CA-C	-5.42	104.42	111.74
2	O	396	ARG	N-CA-C	-5.42	104.42	111.74
4	X	298	GLN	O-C-N	5.42	129.91	122.59
5	M	318	GLU	N-CA-CB	5.42	118.69	110.28
6	H	399	GLN	N-CA-C	-5.42	105.47	111.71
3	P	1476	ALA	CA-C-O	5.42	126.51	120.82
6	T	365	LEU	CB-CA-C	-5.42	102.37	110.88
5	Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
4	F	475	SER	O-C-N	-5.42	116.37	122.12
2	U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	N	493	ALA	N-CA-C	-5.42	105.77	112.38
3	D	58	PRO	N-CA-C	-5.41	101.32	112.47
4	R	212	SER	N-CA-CB	5.41	117.86	110.01
7	V	1387	SER	CA-C-N	5.41	131.88	121.54
7	V	1387	SER	C-N-CA	5.41	131.88	121.54
7	J	1501	TYR	N-CA-CB	-5.41	102.17	110.12
7	J	1387	SER	CA-C-N	5.41	131.87	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	J	1387	SER	C-N-CA	5.41	131.87	121.54
5	M	405	SER	CA-C-N	5.41	127.48	120.56
5	M	405	SER	C-N-CA	5.41	127.48	120.56
5	S	335	LEU	CA-C-O	5.41	128.24	120.51
7	J	787	THR	N-CA-C	-5.40	102.46	110.46
6	N	421	ILE	N-CA-C	-5.40	105.11	110.62
3	P	613	ASN	N-CA-C	-5.40	105.50	111.71
4	R	339	VAL	N-CA-C	-5.40	105.26	110.72
4	F	212	SER	N-CA-CB	5.40	117.84	110.01
6	H	412	GLU	CA-C-O	-5.40	114.03	120.56
7	J	184	GLU	N-CA-C	-5.40	105.47	111.36
6	T	399	GLN	N-CA-C	-5.40	105.50	111.71
5	G	318	GLU	N-CA-CB	5.40	118.65	110.28
4	F	298	GLN	O-C-N	5.40	129.87	122.59
6	T	412	GLU	CA-C-O	-5.40	114.03	120.56
5	G	317	GLN	N-CA-CB	5.39	118.14	110.16
4	L	212	SER	N-CA-CB	5.39	117.83	110.01
2	U	396	ARG	N-CA-C	-5.39	104.46	111.74
7	V	184	GLU	N-CA-C	-5.39	105.48	111.36
6	Z	412	GLU	CA-C-O	-5.39	114.03	120.56
6	Z	493	ALA	N-CA-C	-5.39	105.80	112.38
4	L	205	GLN	CB-CA-C	-5.39	102.92	111.17
6	N	412	GLU	CA-C-O	-5.39	114.03	120.56
7	V	696	GLY	N-CA-C	-5.39	106.25	112.50
4	F	339	VAL	N-CA-C	-5.39	105.28	110.72
6	N	391	GLN	CA-C-O	-5.39	114.01	120.10
5	M	335	LEU	CA-C-O	5.39	128.21	120.51
3	P	58	PRO	N-CA-C	-5.39	101.37	112.47
4	R	298	GLN	O-C-N	5.39	129.86	122.59
4	X	212	SER	N-CA-CB	5.39	117.82	110.01
3	P	1451	ARG	O-C-N	5.38	129.75	122.59
4	R	205	GLN	CB-CA-C	-5.38	102.93	111.17
5	Y	317	GLN	N-CA-CB	5.38	118.13	110.16
6	Z	391	GLN	CA-C-O	-5.38	114.02	120.10
5	G	335	LEU	CA-C-O	5.38	128.20	120.51
4	R	475	SER	O-C-N	-5.38	116.42	122.12
7	V	67	VAL	N-CA-C	5.38	115.59	110.53
7	V	787	THR	N-CA-C	-5.38	102.50	110.46
6	T	362	ASP	N-CA-C	-5.38	105.53	111.71
6	H	391	GLN	CA-C-O	-5.38	114.03	120.10
4	R	290	PRO	N-CA-CB	5.38	108.91	103.00
3	D	613	ASN	N-CA-C	-5.37	105.53	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	M	317	GLN	N-CA-CB	5.37	118.11	110.16
1	Q	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	Z	421	ILE	N-CA-C	-5.37	105.14	110.62
1	B	852	VAL	CB-CA-C	-5.37	105.00	112.04
7	J	67	VAL	N-CA-C	5.37	115.58	110.53
6	T	493	ALA	N-CA-C	-5.37	105.83	112.38
1	W	852	VAL	CB-CA-C	-5.37	105.00	112.04
4	X	392	LYS	CB-CA-C	5.37	121.22	109.99
2	C	341	ALA	CA-C-O	-5.37	114.83	120.63
5	Y	335	LEU	CA-C-O	5.37	128.19	120.51
6	H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	K	852	VAL	CB-CA-C	-5.37	105.01	112.04
4	R	201	GLU	CA-C-N	5.37	127.27	120.72
4	R	201	GLU	C-N-CA	5.37	127.27	120.72
4	R	335	ARG	N-CA-C	5.37	116.81	111.07
6	T	421	ILE	N-CA-C	-5.37	105.14	110.62
2	U	250	VAL	CB-CA-C	5.37	121.60	111.40
3	D	1472	SER	N-CA-C	5.37	116.82	110.97
6	T	391	GLN	CA-C-O	-5.37	114.04	120.10
6	H	463	ALA	CA-C-N	5.37	126.55	119.84
6	H	463	ALA	C-N-CA	5.37	126.55	119.84
1	Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	R	392	LYS	CB-CA-C	5.36	121.20	109.99
1	E	852	VAL	CB-CA-C	-5.36	105.02	112.04
4	L	231	LYS	N-CA-C	5.36	118.14	109.40
2	O	341	ALA	CA-C-O	-5.36	114.84	120.63
7	V	1501	TYR	N-CA-CB	-5.36	102.24	110.12
4	F	392	LYS	CB-CA-C	5.36	121.19	109.99
4	L	392	LYS	CB-CA-C	5.36	121.19	109.99
5	S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	Z	383	LYS	N-CA-CB	5.36	118.41	110.53
1	E	302	VAL	N-CA-C	5.36	114.46	106.85
1	W	302	VAL	N-CA-C	5.36	114.45	106.85
1	E	110	PRO	N-CA-C	5.35	117.23	110.70
4	F	290	PRO	N-CA-CB	5.35	108.89	103.00
2	O	250	VAL	CB-CA-C	5.35	121.57	111.40
2	C	250	VAL	CB-CA-C	5.35	121.57	111.40
2	I	341	ALA	CA-C-O	-5.35	114.85	120.63
6	N	401	LYS	CA-C-N	5.35	127.40	120.44
6	N	401	LYS	C-N-CA	5.35	127.40	120.44
6	T	401	LYS	CA-C-N	5.35	127.40	120.44
6	T	401	LYS	C-N-CA	5.35	127.40	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	401	LYS	CA-C-N	5.35	127.40	120.44
6	Z	401	LYS	C-N-CA	5.35	127.40	120.44
3	D	1517	SER	N-CA-CB	5.35	118.82	109.72
2	I	250	VAL	CB-CA-C	5.35	121.57	111.40
7	J	696	GLY	N-CA-C	-5.35	106.29	112.50
4	F	326	PRO	N-CA-CB	5.35	108.31	103.34
4	F	477	LEU	CB-CA-C	-5.35	101.91	110.79
2	I	780	ASP	CA-C-N	-5.35	114.85	122.77
2	I	780	ASP	C-N-CA	-5.35	114.85	122.77
2	O	780	ASP	CA-C-N	-5.35	114.85	122.77
2	O	780	ASP	C-N-CA	-5.35	114.85	122.77
1	B	110	PRO	N-CA-C	5.35	117.22	110.70
4	L	290	PRO	N-CA-CB	5.35	108.88	103.00
1	W	110	PRO	N-CA-C	5.35	117.22	110.70
4	X	205	GLN	CB-CA-C	-5.35	102.99	111.17
7	J	6	GLY	N-CA-C	-5.35	107.73	115.27
7	J	374	THR	N-CA-C	5.35	116.79	111.07
1	Q	302	VAL	N-CA-C	5.35	114.44	106.85
4	F	335	ARG	N-CA-C	5.34	116.79	111.07
6	N	383	LYS	N-CA-CB	5.34	118.39	110.53
7	V	6	GLY	N-CA-C	-5.34	107.73	115.27
1	B	302	VAL	N-CA-C	5.34	114.44	106.85
6	H	383	LYS	N-CA-CB	5.34	118.38	110.53
4	R	415	ASP	CA-C-O	-5.34	114.89	120.55
2	C	368	GLU	N-CA-C	-5.34	99.43	110.80
3	P	192	GLN	N-CA-CB	5.34	119.51	110.49
1	Q	110	PRO	N-CA-C	5.34	117.22	110.70
5	S	276	SER	N-CA-C	5.34	122.17	110.80
6	T	363	ARG	CB-CA-C	5.34	119.35	110.81
7	V	1215	GLN	N-CA-C	-5.34	105.46	111.28
1	A	302	VAL	N-CA-C	5.34	114.43	106.85
3	D	24	VAL	CA-C-N	-5.34	112.09	121.70
3	D	24	VAL	C-N-CA	-5.34	112.09	121.70
4	L	342	GLN	N-CA-C	-5.34	105.54	111.36
3	P	1472	SER	N-CA-C	5.34	116.79	110.97
2	U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	F	205	GLN	CB-CA-C	-5.33	103.01	111.17
2	C	742	ARG	CA-C-N	5.33	127.86	120.29
2	C	742	ARG	C-N-CA	5.33	127.86	120.29
1	E	396	PHE	N-CA-C	-5.33	99.44	110.80
4	F	342	GLN	N-CA-C	-5.33	105.55	111.36
7	V	374	THR	N-CA-C	5.33	116.78	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	363	ARG	CB-CA-C	5.33	119.34	110.81
3	D	192	GLN	N-CA-CB	5.33	119.50	110.49
7	J	717	SER	CA-C-N	5.33	127.42	120.28
7	J	717	SER	C-N-CA	5.33	127.42	120.28
1	A	110	PRO	N-CA-C	5.33	117.20	110.70
1	A	852	VAL	CB-CA-C	-5.33	105.06	112.04
5	Y	276	SER	N-CA-C	5.33	122.15	110.80
2	I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	K	110	PRO	N-CA-C	5.33	117.20	110.70
1	K	302	VAL	N-CA-C	5.33	114.42	106.85
2	O	368	GLU	N-CA-C	-5.33	99.45	110.80
2	U	341	ALA	CA-C-O	-5.33	114.87	120.63
5	G	315	THR	N-CA-C	-5.33	105.59	111.71
6	N	463	ALA	CA-C-N	5.33	126.50	119.84
6	N	463	ALA	C-N-CA	5.33	126.50	119.84
4	R	326	PRO	N-CA-CB	5.33	108.29	103.34
5	S	344	ASP	CA-C-N	5.33	128.41	120.31
5	S	344	ASP	C-N-CA	5.33	128.41	120.31
4	X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	Z	463	ALA	C-N-CA	5.33	126.50	119.84
6	H	362	ASP	CA-C-N	-5.32	113.35	120.54
6	H	362	ASP	C-N-CA	-5.32	113.35	120.54
2	U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	U	780	ASP	C-N-CA	-5.32	114.89	122.77
3	P	1517	SER	N-CA-CB	5.32	118.77	109.72
4	X	201	GLU	CA-C-N	5.32	127.21	120.72
4	X	201	GLU	C-N-CA	5.32	127.21	120.72
1	A	396	PHE	N-CA-C	-5.32	99.47	110.80
4	L	477	LEU	CB-CA-C	-5.32	101.96	110.79
4	X	335	ARG	N-CA-C	5.32	116.76	111.07
6	H	362	ASP	N-CA-C	-5.32	105.60	111.71
2	C	463	PHE	CB-CA-C	-5.32	102.53	110.88
2	C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	C	780	ASP	C-N-CA	-5.32	114.90	122.77
6	H	487	TRP	CB-CA-C	-5.32	101.97	110.79
2	I	463	PHE	CB-CA-C	-5.32	102.53	110.88
5	M	344	ASP	CA-C-N	5.32	128.39	120.31
5	M	344	ASP	C-N-CA	5.32	128.39	120.31
2	O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	T	383	LYS	N-CA-CB	5.32	118.34	110.53
4	L	201	GLU	CA-C-N	5.31	127.20	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	201	GLU	C-N-CA	5.31	127.20	120.72
2	O	421	VAL	CB-CA-C	-5.31	103.95	111.28
3	P	24	VAL	CA-C-N	-5.31	112.14	121.70
3	P	24	VAL	C-N-CA	-5.31	112.14	121.70
1	B	396	PHE	N-CA-C	-5.31	99.49	110.80
5	G	276	SER	N-CA-C	5.31	122.11	110.80
4	L	335	ARG	N-CA-C	5.31	116.75	111.07
4	R	214	HIS	N-CA-CB	-5.31	102.31	110.12
4	F	201	GLU	CA-C-N	5.31	127.20	120.72
4	F	201	GLU	C-N-CA	5.31	127.20	120.72
5	G	344	ASP	CA-C-N	5.31	128.38	120.31
5	G	344	ASP	C-N-CA	5.31	128.38	120.31
1	K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	N	363	ARG	CB-CA-C	5.31	119.30	110.81
3	P	1502	ARG	N-CA-C	5.31	117.15	111.36
6	T	362	ASP	CA-C-N	-5.31	113.38	120.54
6	T	362	ASP	C-N-CA	-5.31	113.38	120.54
6	T	463	ALA	CA-C-N	5.31	126.47	119.84
6	T	463	ALA	C-N-CA	5.31	126.47	119.84
5	Y	248	PRO	N-CA-CB	-5.31	97.16	103.00
4	R	477	LEU	CB-CA-C	-5.31	101.98	110.79
2	I	742	ARG	CA-C-N	5.30	127.82	120.29
2	I	742	ARG	C-N-CA	5.30	127.82	120.29
6	N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	Q	396	PHE	N-CA-C	-5.30	99.50	110.80
7	J	1215	GLN	N-CA-C	-5.30	105.50	111.28
6	N	362	ASP	CA-C-N	-5.30	113.38	120.54
6	N	362	ASP	C-N-CA	-5.30	113.38	120.54
7	V	717	SER	CA-C-N	5.30	127.39	120.28
7	V	717	SER	C-N-CA	5.30	127.39	120.28
2	U	742	ARG	CA-C-N	5.30	127.82	120.29
2	U	742	ARG	C-N-CA	5.30	127.82	120.29
4	X	415	ASP	CA-C-O	-5.30	114.93	120.55
3	D	325	LEU	CA-C-N	-5.30	113.18	120.28
3	D	325	LEU	C-N-CA	-5.30	113.18	120.28
3	D	879	LEU	CB-CA-C	-5.30	102.53	110.90
2	O	742	ARG	CA-C-N	5.30	127.81	120.29
2	O	742	ARG	C-N-CA	5.30	127.81	120.29
5	S	397	VAL	O-C-N	-5.30	116.72	121.91
5	Y	397	VAL	O-C-N	-5.30	116.72	121.91
3	P	325	LEU	CA-C-N	-5.30	113.18	120.28
3	P	325	LEU	C-N-CA	-5.30	113.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	U	463	PHE	CB-CA-C	-5.30	102.56	110.88
4	X	477	LEU	CB-CA-C	-5.30	102.00	110.79
6	H	401	LYS	CA-C-N	5.29	127.32	120.44
6	H	401	LYS	C-N-CA	5.29	127.32	120.44
4	R	342	GLN	N-CA-C	-5.29	105.59	111.36
6	T	487	TRP	CB-CA-C	-5.29	102.00	110.79
4	X	326	PRO	N-CA-CB	5.29	108.26	103.34
1	E	221	THR	N-CA-C	-5.29	101.54	109.95
6	H	363	ARG	CB-CA-C	5.29	119.28	110.81
3	P	495	SER	N-CA-C	-5.29	105.51	111.28
1	Q	1341	VAL	CA-C-N	5.29	129.81	121.56
1	Q	1341	VAL	C-N-CA	5.29	129.81	121.56
2	U	421	VAL	CB-CA-C	-5.29	103.98	111.28
1	W	396	PHE	N-CA-C	-5.29	99.53	110.80
6	Z	453	ASP	CB-CA-C	-5.29	101.85	110.85
1	E	1341	VAL	CA-C-N	5.29	129.81	121.56
1	E	1341	VAL	C-N-CA	5.29	129.81	121.56
5	M	276	SER	N-CA-C	5.29	122.06	110.80
5	S	248	PRO	N-CA-CB	-5.29	97.18	103.00
4	L	326	PRO	N-CA-CB	5.29	108.26	103.34
6	N	443	GLN	CB-CA-C	-5.29	102.58	110.88
1	B	221	THR	N-CA-C	-5.28	101.55	109.95
2	U	305	LEU	N-CA-C	-5.28	98.13	109.81
5	Y	315	THR	N-CA-C	-5.28	105.63	111.71
2	C	421	VAL	CB-CA-C	-5.28	103.99	111.28
4	R	284	THR	CA-C-N	5.28	127.79	120.29
4	R	284	THR	C-N-CA	5.28	127.79	120.29
1	K	1342	LEU	N-CA-C	5.28	118.13	110.42
5	Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	Y	344	ASP	C-N-CA	5.28	128.34	120.31
6	Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
4	F	214	HIS	N-CA-CB	-5.28	102.36	110.12
2	I	421	VAL	CB-CA-C	-5.28	104.00	111.28
6	N	453	ASP	CB-CA-C	-5.28	101.88	110.85
2	U	524	ARG	CB-CA-C	-5.28	102.94	111.28
1	W	221	THR	N-CA-C	-5.28	101.56	109.95
6	Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	Z	362	ASP	C-N-CA	-5.28	113.42	120.54
2	O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	N	487	TRP	CB-CA-C	-5.27	102.04	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	305	LEU	CB-CA-C	5.27	120.56	110.17
5	S	315	THR	N-CA-C	-5.27	105.65	111.71
7	V	1413	TYR	N-CA-CB	5.27	118.25	109.60
2	I	305	LEU	N-CA-C	-5.27	98.16	109.81
4	L	284	THR	CA-C-N	5.27	127.77	120.29
4	L	284	THR	C-N-CA	5.27	127.77	120.29
3	P	879	LEU	CB-CA-C	-5.27	102.57	110.90
2	U	483	GLU	N-CA-CB	5.27	119.46	110.50
6	H	453	ASP	CB-CA-C	-5.27	101.89	110.85
2	U	329	GLY	N-CA-C	-5.27	107.84	115.27
1	A	221	THR	N-CA-C	-5.27	101.58	109.95
2	I	329	GLY	N-CA-C	-5.27	107.84	115.27
1	K	221	THR	N-CA-C	-5.27	101.58	109.95
4	X	214	HIS	N-CA-CB	-5.27	102.38	110.12
4	F	129	LEU	N-CA-C	-5.26	105.71	111.82
6	H	443	GLN	CB-CA-C	-5.26	102.61	110.88
1	K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	K	1341	VAL	C-N-CA	5.26	129.77	121.56
2	O	483	GLU	N-CA-CB	5.26	119.45	110.50
4	X	342	GLN	N-CA-C	-5.26	105.62	111.36
2	C	31	ARG	CA-C-N	5.26	131.59	121.54
2	C	31	ARG	C-N-CA	5.26	131.59	121.54
1	E	1342	LEU	N-CA-C	5.26	118.10	110.42
1	W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	C	524	ARG	CB-CA-C	-5.26	102.97	111.28
2	I	483	GLU	N-CA-CB	5.26	119.44	110.50
4	L	364	ASN	N-CA-C	-5.26	105.55	111.28
7	V	162	VAL	CA-C-N	-5.26	114.36	123.25
7	V	162	VAL	C-N-CA	-5.26	114.36	123.25
3	D	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	G	248	PRO	N-CA-CB	-5.26	97.22	103.00
6	H	446	ARG	N-CA-CB	5.26	117.81	109.82
3	P	569	LEU	CB-CA-C	-5.26	102.86	110.96
3	D	569	LEU	CB-CA-C	-5.26	102.86	110.96
2	I	524	ARG	CB-CA-C	-5.26	102.97	111.28
4	L	214	HIS	N-CA-CB	-5.26	102.39	110.12
4	F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	T	443	GLN	CB-CA-C	-5.26	102.63	110.88
6	Z	362	ASP	N-CA-C	-5.26	105.67	111.71
6	Z	485	LEU	N-CA-CB	5.26	118.31	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	524	ARG	CB-CA-C	-5.25	102.98	111.28
1	Q	221	THR	N-CA-C	-5.25	101.59	109.95
6	T	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	D	495	SER	N-CA-C	-5.25	105.56	111.28
3	D	1502	ARG	N-CA-C	5.25	117.08	111.36
3	P	1502	ARG	CA-C-O	5.25	125.99	120.42
6	T	335	SER	N-CA-C	5.25	117.41	111.11
3	D	215	LYS	N-CA-C	-5.25	105.56	111.28
4	F	311	GLN	N-CA-CB	5.25	118.02	110.20
5	M	315	THR	N-CA-C	-5.25	105.68	111.71
3	P	1667	ALA	N-CA-CB	5.25	117.83	110.12
7	V	524	ASP	N-CA-C	-5.25	106.46	112.86
1	E	1140	PHE	N-CA-C	-5.25	105.56	111.28
4	F	216	VAL	CB-CA-C	-5.25	104.39	112.05
2	C	729	GLU	N-CA-C	-5.24	105.68	111.71
1	E	343	VAL	CB-CA-C	-5.24	105.26	111.97
4	F	284	THR	CA-C-N	5.24	127.74	120.29
4	F	284	THR	C-N-CA	5.24	127.74	120.29
2	I	31	ARG	CA-C-N	5.24	131.56	121.54
2	I	31	ARG	C-N-CA	5.24	131.56	121.54
4	L	311	GLN	N-CA-CB	5.24	118.01	110.20
6	T	446	ARG	N-CA-CB	5.24	117.79	109.82
1	W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	W	1341	VAL	C-N-CA	5.24	129.74	121.56
6	Z	446	ARG	N-CA-CB	5.24	117.79	109.82
2	C	329	GLY	N-CA-C	-5.24	107.88	115.27
7	J	1413	TYR	N-CA-CB	5.24	118.20	109.60
2	U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	C	483	GLU	N-CA-CB	5.24	119.41	110.50
3	D	1500	LEU	N-CA-C	-5.24	105.46	111.07
3	D	1502	ARG	CA-C-O	5.24	125.98	120.42
5	G	301	ILE	CA-C-O	5.24	126.13	120.47
2	I	305	LEU	CB-CA-C	5.24	120.49	110.17
4	X	284	THR	CA-C-N	5.24	127.73	120.29
4	X	284	THR	C-N-CA	5.24	127.73	120.29
2	I	343	HIS	CA-C-N	-5.24	112.59	121.18
2	I	343	HIS	C-N-CA	-5.24	112.59	121.18
7	J	162	VAL	CA-C-N	-5.24	114.40	123.25
7	J	162	VAL	C-N-CA	-5.24	114.40	123.25
4	F	396	GLN	N-CA-CB	-5.24	102.48	110.07
4	L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	Q	1140	PHE	N-CA-C	-5.24	105.57	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	1342	LEU	N-CA-C	5.24	118.07	110.42
2	C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	F	467	LEU	N-CA-CB	5.24	119.22	110.32
6	N	335	SER	N-CA-C	5.24	117.39	111.11
2	O	343	HIS	CA-C-N	-5.24	112.59	121.18
2	O	343	HIS	C-N-CA	-5.24	112.59	121.18
6	T	433	THR	N-CA-CB	5.24	117.60	110.01
2	U	31	ARG	CA-C-N	5.24	131.54	121.54
2	U	31	ARG	C-N-CA	5.24	131.54	121.54
4	X	492	GLU	O-C-N	5.24	129.55	122.59
6	H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	K	1140	PHE	N-CA-C	-5.23	105.58	111.28
4	X	396	GLN	N-CA-CB	-5.23	102.48	110.07
7	J	516	GLY	N-CA-C	-5.23	108.12	114.92
2	C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	C	343	HIS	C-N-CA	-5.23	112.61	121.18
5	M	397	VAL	O-C-N	-5.23	116.78	121.91
6	T	485	LEU	N-CA-CB	5.23	118.27	110.22
3	D	1666	SER	N-CA-C	-5.23	105.58	111.28
7	J	524	ASP	N-CA-C	-5.23	106.48	112.86
4	R	467	LEU	N-CA-CB	5.23	119.21	110.32
2	U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	U	343	HIS	C-N-CA	-5.23	112.61	121.18
6	Z	335	SER	N-CA-C	5.23	117.38	111.11
1	W	1140	PHE	N-CA-C	-5.23	105.58	111.28
4	L	467	LEU	N-CA-CB	5.22	119.20	110.32
5	M	301	ILE	CA-C-O	5.22	126.11	120.47
4	X	129	LEU	N-CA-C	-5.22	105.76	111.82
4	X	364	ASN	N-CA-C	-5.22	105.58	111.28
3	P	215	LYS	N-CA-C	-5.22	105.59	111.28
3	P	1500	LEU	N-CA-C	-5.22	105.48	111.07
1	A	424	GLU	N-CA-C	-5.22	103.99	110.41
4	F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	R	311	GLN	N-CA-CB	5.22	117.98	110.20
4	X	231	LYS	N-CA-C	5.22	118.07	109.72
4	L	216	VAL	CB-CA-C	-5.22	104.43	112.05
4	X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	L	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	N	446	ARG	N-CA-CB	5.22	117.75	109.82
5	Y	301	ILE	CA-C-O	5.22	126.10	120.47
6	H	433	THR	N-CA-CB	5.21	117.57	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
1	B	424	GLU	N-CA-C	-5.21	104.00	110.41
4	F	488	ILE	CB-CA-C	-5.21	105.30	111.97
1	Q	1082	TRP	N-CA-C	-5.21	105.72	111.71
4	R	488	ILE	CB-CA-C	-5.21	105.30	111.97
7	V	516	GLY	N-CA-C	-5.21	108.15	114.92
1	W	424	GLU	N-CA-C	-5.21	104.00	110.41
4	X	467	LEU	N-CA-CB	5.21	119.17	110.32
3	D	1639	LEU	CA-C-N	5.21	127.78	120.28
3	D	1639	LEU	C-N-CA	5.21	127.78	120.28
3	D	1667	ALA	N-CA-CB	5.21	117.78	110.12
5	M	323	GLU	CA-C-O	5.21	125.96	119.97
2	U	729	GLU	N-CA-C	-5.21	105.72	111.71
7	V	1466	TRP	N-CA-CB	5.21	119.29	110.49
7	J	1466	TRP	N-CA-CB	5.21	119.29	110.49
4	L	129	LEU	N-CA-C	-5.21	105.78	111.82
2	O	662	ARG	N-CA-CB	5.21	119.29	110.49
4	R	231	LYS	N-CA-C	5.21	118.05	109.72
4	L	488	ILE	CB-CA-C	-5.20	105.31	111.97
1	Q	424	GLU	N-CA-C	-5.20	104.01	110.41
4	R	129	LEU	N-CA-C	-5.20	105.79	111.82
5	Y	329	GLN	N-CA-CB	5.20	121.95	111.60
4	F	231	LYS	N-CA-C	5.20	118.04	109.72
5	G	397	VAL	O-C-N	-5.20	116.81	121.91
1	K	343	VAL	CB-CA-C	-5.20	105.31	111.97
6	N	485	LEU	N-CA-CB	5.20	118.23	110.22
1	W	1082	TRP	N-CA-C	-5.20	105.73	111.71
3	P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	P	1639	LEU	C-N-CA	5.20	127.77	120.28
4	X	488	ILE	CB-CA-C	-5.20	105.32	111.97
1	Q	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	A	343	VAL	CB-CA-C	-5.20	105.32	111.97
4	F	492	GLU	O-C-N	5.20	129.50	122.59
5	G	323	GLU	CB-CA-C	5.20	120.65	110.67
4	L	256	VAL	CB-CA-C	-5.20	105.91	111.00
6	N	433	THR	N-CA-CB	5.20	117.55	110.01
3	P	345	ASP	N-CA-C	-5.20	105.51	111.07
4	R	364	ASN	N-CA-C	-5.20	105.62	111.28
3	D	1685	LEU	O-C-N	5.19	126.65	121.30
1	B	343	VAL	CB-CA-C	-5.19	105.32	111.81
1	K	1089	ARG	N-CA-C	-5.19	105.70	111.36
2	O	31	ARG	CA-C-N	5.19	131.46	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	O	31	ARG	C-N-CA	5.19	131.46	121.54
2	O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	W	138	ASP	N-CA-C	-5.19	106.97	113.72
4	X	245	VAL	O-C-N	-5.19	117.58	122.98
4	R	216	VAL	CB-CA-C	-5.19	104.47	112.05
2	U	662	ARG	N-CA-CB	5.19	119.26	110.49
1	K	1172	GLN	N-CA-C	-5.19	106.21	112.54
1	A	138	ASP	N-CA-C	-5.19	106.98	113.72
2	C	662	ARG	N-CA-CB	5.19	119.26	110.49
5	M	329	GLN	N-CA-CB	5.19	121.92	111.60
4	R	492	GLU	O-C-N	5.19	129.49	122.59
4	L	492	GLU	O-C-N	5.19	129.49	122.59
5	M	407	HIS	N-CA-C	-5.19	105.63	111.28
5	Y	397	VAL	CA-C-N	5.19	127.65	120.29
5	Y	397	VAL	C-N-CA	5.19	127.65	120.29
1	E	424	GLU	N-CA-C	-5.18	104.03	110.41
7	V	1355	GLY	N-CA-C	-5.18	106.51	112.73
1	W	912	ASP	N-CA-C	-5.18	106.06	112.38
4	X	216	VAL	CB-CA-C	-5.18	104.48	112.05
5	G	329	GLN	N-CA-CB	5.18	121.91	111.60
1	Q	1274	GLN	CB-CA-C	-5.18	102.75	110.88
1	E	912	ASP	N-CA-C	-5.18	106.06	112.38
1	K	1082	TRP	N-CA-C	-5.18	105.75	111.71
4	X	431	LEU	N-CA-C	-5.18	105.63	111.28
4	X	335	ARG	N-CA-CB	-5.18	102.50	110.01
1	E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	M	270	GLU	CA-C-O	-5.17	114.94	120.42
5	S	329	GLN	N-CA-CB	5.17	121.90	111.60
5	Y	407	HIS	N-CA-C	-5.17	105.64	111.28
1	K	138	ASP	N-CA-C	-5.17	107.00	113.72
1	Q	912	ASP	N-CA-C	-5.17	106.07	112.38
5	S	301	ILE	CA-C-O	5.17	126.06	120.47
1	W	343	VAL	CB-CA-C	-5.17	105.35	111.97
6	Z	433	THR	N-CA-CB	5.17	117.51	110.01
1	B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	K	912	ASP	N-CA-C	-5.17	106.07	112.38
1	Q	1172	GLN	N-CA-C	-5.17	106.23	112.54
1	E	1274	GLN	CB-CA-C	-5.17	102.77	110.88
4	F	464	LYS	N-CA-CB	5.17	119.22	110.49
2	O	654	SER	CA-C-N	5.17	134.41	121.80
2	O	654	SER	C-N-CA	5.17	134.41	121.80
3	P	1666	SER	N-CA-C	-5.17	105.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	U	654	SER	CA-C-N	5.17	134.41	121.80
2	U	654	SER	C-N-CA	5.17	134.41	121.80
1	E	1082	TRP	N-CA-C	-5.17	105.77	111.71
6	Z	489	ASP	CA-C-N	-5.17	114.23	122.29
6	Z	489	ASP	C-N-CA	-5.17	114.23	122.29
1	Q	138	ASP	N-CA-C	-5.17	107.01	113.72
4	R	256	VAL	CB-CA-C	-5.17	105.94	111.00
2	C	433	ASP	N-CA-C	-5.16	104.59	111.87
2	C	654	SER	CA-C-N	5.16	134.40	121.80
2	C	654	SER	C-N-CA	5.16	134.40	121.80
4	F	335	ARG	N-CA-CB	-5.16	102.52	110.01
1	K	424	GLU	N-CA-C	-5.16	104.06	110.41
4	L	245	VAL	O-C-N	-5.16	117.61	122.98
1	E	138	ASP	N-CA-C	-5.16	107.01	113.72
4	L	335	ARG	N-CA-CB	-5.16	102.53	110.01
7	J	1355	GLY	N-CA-C	-5.16	106.54	112.73
1	K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
5	G	407	HIS	N-CA-C	-5.16	105.66	111.28
3	P	1452	LEU	N-CA-C	-5.16	105.55	111.07
7	V	332	THR	N-CA-C	-5.16	105.78	111.71
5	Y	323	GLU	CA-C-O	5.16	125.90	119.97
3	D	1452	LEU	N-CA-C	-5.16	105.55	111.07
2	I	662	ARG	N-CA-CB	5.16	119.21	110.49
4	L	464	LYS	N-CA-CB	5.16	119.20	110.49
5	M	323	GLU	CB-CA-C	5.16	120.57	110.67
2	I	654	SER	CA-C-N	5.16	134.38	121.80
2	I	654	SER	C-N-CA	5.16	134.38	121.80
5	S	270	GLU	CA-C-O	-5.16	114.95	120.42
1	W	1172	GLN	N-CA-C	-5.16	106.25	112.54
4	X	256	VAL	CB-CA-C	-5.16	105.95	111.00
4	R	245	VAL	O-C-N	-5.15	117.62	122.98
7	V	773	ALA	CA-C-N	5.15	126.77	120.22
7	V	773	ALA	C-N-CA	5.15	126.77	120.22
5	S	323	GLU	CB-CA-C	5.15	120.56	110.67
2	U	433	ASP	N-CA-C	-5.15	104.60	111.87
7	V	188	TRP	N-CA-C	-5.15	107.02	113.15
7	V	908	LYS	N-CA-C	5.15	116.58	111.07
3	P	1685	LEU	O-C-N	5.15	126.60	121.30
5	S	397	VAL	CA-C-N	5.15	127.60	120.29
5	S	397	VAL	C-N-CA	5.15	127.60	120.29
1	E	316	ALA	CA-C-N	-5.15	112.74	121.85
1	E	316	ALA	C-N-CA	-5.15	112.74	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1089	ARG	N-CA-C	-5.15	105.75	111.36
5	M	397	VAL	CA-C-N	5.15	127.60	120.29
5	M	397	VAL	C-N-CA	5.15	127.60	120.29
1	Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	R	396	GLN	N-CA-CB	-5.15	102.61	110.07
1	W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
4	R	464	LYS	N-CA-CB	5.15	119.19	110.49
5	G	281	LEU	N-CA-C	-5.14	105.80	111.71
3	D	345	ASP	N-CA-C	-5.14	105.57	111.07
7	J	868	PRO	CA-C-N	-5.14	112.99	120.29
7	J	868	PRO	C-N-CA	-5.14	112.99	120.29
7	J	1327	LYS	N-CA-C	-5.14	105.11	111.33
2	O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	S	407	HIS	N-CA-C	-5.14	105.67	111.28
7	V	459	SER	N-CA-C	-5.14	106.27	112.54
4	L	339	VAL	CA-C-N	5.14	127.17	120.28
4	L	339	VAL	C-N-CA	5.14	127.17	120.28
5	Y	281	LEU	N-CA-C	-5.14	105.80	111.71
6	H	335	SER	N-CA-C	5.14	117.28	111.11
2	O	447	ASP	N-CA-CB	5.14	119.23	110.50
4	R	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	S	319	LEU	N-CA-C	-5.14	105.11	111.33
7	J	188	TRP	N-CA-C	-5.14	107.04	113.15
1	A	73	LEU	N-CA-C	-5.13	106.97	113.23
2	I	433	ASP	N-CA-C	-5.13	104.63	111.87
7	J	332	THR	N-CA-C	-5.13	105.80	111.71
4	X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	Y	270	GLU	CA-C-O	-5.13	114.98	120.42
5	S	323	GLU	CA-C-O	5.13	125.87	119.97
3	D	241	LEU	CB-CA-C	-5.13	103.00	110.95
3	D	403	MET	N-CA-C	5.13	121.15	109.81
4	R	431	LEU	N-CA-C	-5.13	105.69	111.28
7	V	481	LYS	CB-CA-C	5.13	120.28	110.17
5	G	397	VAL	CA-C-N	5.13	127.57	120.29
5	G	397	VAL	C-N-CA	5.13	127.57	120.29
1	Q	401	THR	N-CA-C	-5.13	105.74	112.41
4	F	245	VAL	O-C-N	-5.13	117.65	122.98
7	J	481	LYS	CB-CA-C	5.13	120.27	110.17
7	J	908	LYS	N-CA-C	5.13	116.56	111.07
5	G	270	GLU	CA-C-O	-5.13	114.98	120.42
3	P	232	LEU	CB-CA-C	-5.13	102.83	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	P	241	LEU	CB-CA-C	-5.12	103.01	110.95
4	R	339	VAL	CA-C-N	5.12	127.15	120.28
4	R	339	VAL	C-N-CA	5.12	127.15	120.28
7	V	868	PRO	CA-C-N	-5.12	113.01	120.29
7	V	868	PRO	C-N-CA	-5.12	113.01	120.29
6	H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	T	489	ASP	CA-C-N	-5.12	114.30	122.29
6	T	489	ASP	C-N-CA	-5.12	114.30	122.29
1	B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	C	618	ASN	CB-CA-C	-5.12	102.84	110.88
6	H	381	LYS	CB-CA-C	-5.12	100.84	110.67
2	U	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	W	73	LEU	N-CA-C	-5.12	106.98	113.23
2	O	618	ASN	CB-CA-C	-5.12	102.85	110.88
2	I	455	VAL	CB-CA-C	-5.12	101.68	111.40
6	T	390	ASP	O-C-N	5.12	127.56	122.03
1	B	73	LEU	N-CA-C	-5.11	106.99	113.23
4	F	256	VAL	CB-CA-C	-5.11	105.99	111.00
7	J	459	SER	N-CA-C	-5.11	106.30	112.54
7	J	866	ALA	N-CA-C	5.11	117.64	111.40
1	K	73	LEU	N-CA-C	-5.11	106.99	113.23
6	T	381	LYS	CB-CA-C	-5.11	100.85	110.67
4	X	339	VAL	CA-C-N	5.11	127.13	120.28
4	X	339	VAL	C-N-CA	5.11	127.13	120.28
3	D	232	LEU	CB-CA-C	-5.11	102.85	110.88
3	P	1516	LEU	N-CA-C	-5.11	105.71	111.28
6	Z	390	ASP	O-C-N	5.11	127.55	122.03
3	D	1516	LEU	N-CA-C	-5.11	105.71	111.28
1	K	401	THR	N-CA-C	-5.11	105.77	112.41
3	P	403	MET	N-CA-C	5.11	121.11	109.81
1	Q	73	LEU	N-CA-C	-5.11	107.00	113.23
2	O	412	ASP	N-CA-C	-5.11	105.71	111.28
2	C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
1	A	316	ALA	CA-C-N	-5.11	112.81	121.85
1	A	316	ALA	C-N-CA	-5.11	112.81	121.85
1	A	401	THR	N-CA-C	-5.11	105.77	112.41
7	J	1371	GLN	CB-CA-C	-5.11	100.26	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	V	482	PRO	N-CA-C	5.11	122.99	112.47
7	V	1371	GLN	CB-CA-C	-5.11	100.26	110.42
1	K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	K	316	ALA	C-N-CA	-5.10	112.82	121.85
2	U	467	PHE	N-CA-CB	5.10	117.62	110.12
3	D	748	ARG	N-CA-C	-5.10	105.72	111.28
6	H	377	ARG	O-C-N	5.10	129.38	122.59
2	I	602	THR	N-CA-CB	5.10	119.11	110.49
7	J	773	ALA	CA-C-N	5.10	126.70	120.22
7	J	773	ALA	C-N-CA	5.10	126.70	120.22
4	L	252	THR	N-CA-C	-5.10	100.92	109.24
5	M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	U	447	ASP	N-CA-CB	5.10	119.17	110.50
7	V	84	LEU	N-CA-C	-5.10	103.66	110.55
6	N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	N	390	ASP	O-C-N	5.10	127.54	122.03
6	N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	S	281	LEU	N-CA-C	-5.10	105.85	111.71
2	U	412	ASP	N-CA-C	-5.10	105.72	111.28
7	V	606	PRO	CB-CA-C	5.10	117.14	110.92
5	Y	299	ASN	N-CA-CB	5.10	118.07	110.22
1	E	73	LEU	N-CA-C	-5.10	107.01	113.23
5	G	319	LEU	N-CA-C	-5.10	105.16	111.33
2	I	467	PHE	N-CA-CB	5.10	117.61	110.12
2	I	711	PHE	N-CA-CB	5.10	117.61	110.12
2	O	602	THR	N-CA-CB	5.10	119.10	110.49
1	W	401	THR	N-CA-C	-5.10	105.78	112.41
2	I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	M	299	ASN	N-CA-CB	5.09	118.07	110.22
5	S	324	ILE	CA-C-N	-5.09	110.79	121.64
5	S	324	ILE	C-N-CA	-5.09	110.79	121.64
6	Z	394	ASP	O-C-N	5.09	128.85	122.23
3	P	1458	VAL	CB-CA-C	-5.09	105.45	111.97
1	B	401	THR	N-CA-C	-5.09	105.79	112.41
2	I	618	ASN	CB-CA-C	-5.09	102.89	110.88
2	I	785	LEU	N-CA-C	-5.09	106.48	113.56
7	V	1310	LEU	N-CA-CB	5.09	115.25	109.49
5	Y	324	ILE	CA-C-N	-5.09	110.79	121.64
5	Y	324	ILE	C-N-CA	-5.09	110.79	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	467	PHE	N-CA-CB	5.09	117.60	110.12
7	V	1327	LYS	N-CA-C	-5.09	105.17	111.33
1	E	401	THR	N-CA-C	-5.09	105.80	112.41
2	I	412	ASP	N-CA-C	-5.09	105.73	111.28
6	T	377	ARG	O-C-N	5.09	129.36	122.59
2	C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	F	339	VAL	CA-C-N	5.09	127.10	120.28
4	F	339	VAL	C-N-CA	5.09	127.10	120.28
5	G	324	ILE	CA-C-N	-5.09	110.81	121.64
5	G	324	ILE	C-N-CA	-5.09	110.81	121.64
2	O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	C	455	VAL	CB-CA-C	-5.08	101.74	111.40
2	C	602	THR	N-CA-CB	5.08	119.08	110.49
5	G	366	GLU	N-CA-CB	-5.08	102.40	110.28
2	I	309	GLN	CA-C-N	-5.08	113.88	122.67
2	I	309	GLN	C-N-CA	-5.08	113.88	122.67
7	J	482	PRO	N-CA-C	5.08	122.94	112.47
2	U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	Y	319	LEU	N-CA-C	-5.08	105.18	111.33
6	Z	362	ASP	CA-C-O	5.08	125.84	120.10
5	S	299	ASN	N-CA-CB	5.08	118.04	110.22
5	M	366	GLU	N-CA-CB	-5.08	102.41	110.28
1	W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	W	316	ALA	C-N-CA	-5.08	112.86	121.85
3	D	800	PRO	N-CA-CB	5.08	106.03	103.19
7	J	1310	LEU	N-CA-CB	5.08	115.22	109.49
5	Y	380	ILE	CA-C-O	-5.08	115.80	121.23
3	D	1458	VAL	CB-CA-C	-5.07	105.47	111.97
7	J	606	PRO	CB-CA-C	5.07	117.11	110.92
7	J	1411	LEU	CA-C-N	-5.07	113.55	121.87
7	J	1411	LEU	C-N-CA	-5.07	113.55	121.87
2	O	711	PHE	N-CA-CB	5.07	117.58	110.12
4	X	252	THR	N-CA-C	-5.07	100.97	109.24
2	C	309	GLN	CA-C-N	-5.07	113.90	122.67
2	C	309	GLN	C-N-CA	-5.07	113.90	122.67
6	H	390	ASP	O-C-N	5.07	127.51	122.03
3	P	748	ARG	N-CA-C	-5.07	105.75	111.28
4	R	401	TYR	CB-CA-C	-5.07	100.33	110.42
6	Z	377	ARG	O-C-N	5.07	129.33	122.59
5	G	323	GLU	CA-C-O	5.07	125.80	119.97
2	C	412	ASP	N-CA-C	-5.07	105.76	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	356	THR	CA-C-O	5.07	125.83	120.10
4	F	252	THR	N-CA-C	-5.07	100.98	109.24
4	F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	M	324	ILE	CA-C-N	-5.07	110.85	121.64
5	M	324	ILE	C-N-CA	-5.07	110.85	121.64
4	R	252	THR	N-CA-C	-5.07	100.98	109.24
2	U	602	THR	N-CA-CB	5.06	119.05	110.49
7	V	99	GLU	CA-C-N	5.06	127.06	120.28
7	V	99	GLU	C-N-CA	5.06	127.06	120.28
4	L	401	TYR	CB-CA-C	-5.06	100.35	110.42
6	H	362	ASP	CA-C-O	5.06	125.82	120.10
6	H	394	ASP	O-C-N	5.06	128.81	122.23
4	L	293	ILE	N-CA-C	-5.06	105.56	110.42
2	O	785	LEU	N-CA-C	-5.06	106.53	113.56
7	V	866	ALA	N-CA-C	5.06	117.57	111.40
5	Y	357	LEU	CB-CA-C	-5.06	102.39	110.79
3	D	239	SER	N-CA-C	5.06	115.79	109.57
5	G	299	ASN	N-CA-CB	5.06	118.01	110.22
7	J	84	LEU	N-CA-C	-5.06	103.72	110.55
7	J	1455	PHE	CB-CA-C	-5.06	102.94	110.88
4	L	229	GLY	N-CA-C	-5.06	102.15	110.80
4	X	401	TYR	CB-CA-C	-5.06	100.36	110.42
7	V	1411	LEU	CA-C-N	-5.05	113.58	121.87
7	V	1411	LEU	C-N-CA	-5.05	113.58	121.87
4	X	473	GLY	CA-C-N	-5.05	113.11	120.29
4	X	473	GLY	C-N-CA	-5.05	113.11	120.29
5	Y	325	ALA	CA-C-N	-5.05	111.89	121.54
5	Y	325	ALA	C-N-CA	-5.05	111.89	121.54
4	R	222	THR	O-C-N	-5.05	115.87	122.59
2	U	785	LEU	N-CA-C	-5.05	106.54	113.56
7	J	99	GLU	CA-C-N	5.05	127.05	120.28
7	J	99	GLU	C-N-CA	5.05	127.05	120.28
4	L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	L	473	GLY	C-N-CA	-5.05	113.12	120.29
6	N	377	ARG	O-C-N	5.05	129.31	122.59
2	U	309	GLN	CA-C-N	-5.05	113.93	122.67
2	U	309	GLN	C-N-CA	-5.05	113.93	122.67
5	G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	G	325	ALA	C-N-CA	-5.05	111.90	121.54
7	J	66	ASP	CA-C-N	5.05	127.02	120.56
7	J	66	ASP	C-N-CA	5.05	127.02	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	L	222	THR	O-C-N	-5.05	115.88	122.59
2	C	785	LEU	N-CA-C	-5.05	106.55	113.56
4	F	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	G	357	LEU	CB-CA-C	-5.05	102.41	110.79
2	O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	O	309	GLN	C-N-CA	-5.05	113.94	122.67
3	P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	P	445	LEU	N-CA-C	-5.04	105.67	111.07
4	L	431	LEU	N-CA-C	-5.04	105.78	111.28
4	F	229	GLY	N-CA-C	-5.04	102.18	110.80
5	M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	M	325	ALA	C-N-CA	-5.04	111.91	121.54
6	T	394	ASP	O-C-N	5.04	128.78	122.23
6	Z	413	LEU	CB-CA-C	-5.04	102.93	110.90
6	N	490	GLN	N-CA-C	-5.04	106.05	113.61
4	R	229	GLY	N-CA-C	-5.04	102.18	110.80
5	M	380	ILE	CA-C-O	-5.04	115.84	121.23
6	N	362	ASP	CA-C-O	5.04	125.79	120.10
5	S	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	S	325	ALA	C-N-CA	-5.04	111.92	121.54
5	Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
1	E	1192	PHE	N-CA-C	5.03	117.73	111.24
6	N	394	ASP	O-C-N	5.03	128.77	122.23
3	P	1499	LEU	O-C-N	5.03	127.25	122.07
5	M	357	LEU	CB-CA-C	-5.03	102.44	110.79
6	T	490	GLN	N-CA-C	-5.03	106.06	113.61
7	V	66	ASP	CA-C-N	5.03	127.00	120.56
7	V	66	ASP	C-N-CA	5.03	127.00	120.56
7	V	1455	PHE	CB-CA-C	-5.03	102.98	110.88
5	M	348	ILE	O-C-N	-5.03	116.65	121.83
1	Q	1192	PHE	N-CA-C	5.03	117.73	111.24
4	X	229	GLY	N-CA-C	-5.03	102.20	110.80
5	M	399	LEU	N-CA-C	-5.03	105.80	111.28
6	N	413	LEU	CB-CA-C	-5.03	102.95	110.90
1	W	1192	PHE	N-CA-C	5.03	117.72	111.24
5	Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	Z	356	THR	CA-C-O	5.03	125.78	120.10
2	I	17	ALA	CA-C-N	-5.03	115.54	123.13
2	I	17	ALA	C-N-CA	-5.03	115.54	123.13
1	K	501	VAL	CB-CA-C	-5.02	103.34	110.83
3	P	239	SER	N-CA-C	5.02	115.75	109.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	222	THR	O-C-N	-5.02	115.91	122.59
5	G	399	LEU	N-CA-C	-5.02	105.81	111.28
3	P	452	LYS	N-CA-C	-5.02	100.58	109.02
3	P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	D	320	TRP	CB-CA-C	-5.02	103.25	111.68
1	E	501	VAL	CB-CA-C	-5.02	103.35	110.83
1	A	501	VAL	CB-CA-C	-5.02	103.35	110.83
3	D	445	LEU	N-CA-C	-5.02	105.70	111.07
4	R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	T	377	ARG	N-CA-C	5.02	121.49	110.80
3	D	242	GLY	CA-C-N	5.01	127.93	120.31
3	D	242	GLY	C-N-CA	5.01	127.93	120.31
3	D	371	PHE	N-CA-CB	5.01	118.71	110.39
5	S	348	ILE	O-C-N	-5.01	116.67	121.83
6	Z	377	ARG	N-CA-C	5.01	121.48	110.80
6	Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	D	452	LYS	N-CA-C	-5.01	100.60	109.02
6	N	377	ARG	N-CA-C	5.01	121.47	110.80
5	S	357	LEU	CB-CA-C	-5.01	102.47	110.79
2	O	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	U	731	VAL	CB-CA-C	-5.01	105.46	112.02
5	Y	399	LEU	N-CA-C	-5.01	105.82	111.28
1	W	213	THR	N-CA-C	5.01	116.43	111.07
4	X	222	THR	O-C-N	-5.01	115.93	122.59
2	C	364	SER	N-CA-C	-5.00	103.40	110.31
6	H	356	THR	CA-C-O	5.00	125.75	120.10
1	K	961	GLY	CA-C-N	5.00	127.92	120.31
1	K	961	GLY	C-N-CA	5.00	127.92	120.31
2	O	602	THR	CA-C-N	5.00	131.10	121.54
2	O	602	THR	C-N-CA	5.00	131.10	121.54
3	D	328	THR	N-CA-CB	5.00	117.26	110.01
3	D	254	GLU	CB-CA-C	-5.00	102.49	110.79
6	H	352	LEU	CA-C-O	5.00	126.25	120.90
7	V	859	ILE	CA-C-O	-5.00	115.85	121.75

All (100) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	C	11	GLN	CA
4	F	200	THR	CA
4	F	210	VAL	CA

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Mol	Chain	Res	Type	Atom
4	F	211	GLU	CA
4	F	305	ASP	CA
4	F	341	ASP	CA
4	F	423	ALA	CA
4	F	454	TYR	CA
4	F	459	LEU	CA
4	F	460	LEU	CA
4	F	486	GLU	CA
5	G	327	ARG	CA
5	G	330	LYS	CA
5	G	338	GLU	CA
5	G	339	TYR	CA
5	G	340	ALA	CA
5	G	341	ALA	CA
5	G	344	ASP	CA
5	G	373	THR	CA
5	G	405	SER	CA
6	H	352	LEU	CA
6	H	356	THR	CA
6	H	387	LYS	CA
6	H	446	ARG	CA
6	H	494	LEU	CA
2	I	11	GLN	CA
4	L	200	THR	CA
4	L	210	VAL	CA
4	L	211	GLU	CA
4	L	305	ASP	CA
4	L	341	ASP	CA
4	L	423	ALA	CA
4	L	454	TYR	CA
4	L	459	LEU	CA
4	L	460	LEU	CA
4	L	486	GLU	CA
5	M	327	ARG	CA
5	M	330	LYS	CA
5	M	338	GLU	CA
5	M	339	TYR	CA
5	M	340	ALA	CA
5	M	341	ALA	CA
5	M	344	ASP	CA
5	M	373	THR	CA
5	M	405	SER	CA

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Mol	Chain	Res	Type	Atom
6	N	352	LEU	CA
6	N	356	THR	CA
6	N	387	LYS	CA
6	N	446	ARG	CA
6	N	494	LEU	CA
2	O	11	GLN	CA
4	R	200	THR	CA
4	R	210	VAL	CA
4	R	211	GLU	CA
4	R	305	ASP	CA
4	R	341	ASP	CA
4	R	423	ALA	CA
4	R	454	TYR	CA
4	R	459	LEU	CA
4	R	460	LEU	CA
4	R	486	GLU	CA
5	S	327	ARG	CA
5	S	330	LYS	CA
5	S	338	GLU	CA
5	S	339	TYR	CA
5	S	340	ALA	CA
5	S	341	ALA	CA
5	S	344	ASP	CA
5	S	373	THR	CA
5	S	405	SER	CA
6	T	352	LEU	CA
6	T	356	THR	CA
6	T	387	LYS	CA
6	T	446	ARG	CA
6	T	494	LEU	CA
2	U	11	GLN	CA
4	X	200	THR	CA
4	X	210	VAL	CA
4	X	211	GLU	CA
4	X	305	ASP	CA
4	X	341	ASP	CA
4	X	423	ALA	CA
4	X	454	TYR	CA
4	X	459	LEU	CA
4	X	460	LEU	CA
4	X	486	GLU	CA
5	Y	327	ARG	CA

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Mol	Chain	Res	Type	Atom
5	Y	330	LYS	CA
5	Y	338	GLU	CA
5	Y	339	TYR	CA
5	Y	340	ALA	CA
5	Y	341	ALA	CA
5	Y	344	ASP	CA
5	Y	373	THR	CA
5	Y	405	SER	CA
6	Z	352	LEU	CA
6	Z	356	THR	CA
6	Z	387	LYS	CA
6	Z	446	ARG	CA
6	Z	494	LEU	CA

All (288) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	259	SER	Mainchain
1	B	259	SER	Mainchain
2	C	11	GLN	Mainchain
2	C	4	GLU	Mainchain
2	C	6	PHE	Mainchain
2	C	7	GLY	Mainchain
3	D	1448	MET	Mainchain
3	D	1449	TRP	Peptide
3	D	1450	GLU	Peptide
3	D	1484	ASP	Mainchain
3	D	1485	ALA	Mainchain
3	D	1486	CYS	Mainchain
3	D	1489	HIS	Mainchain
3	D	1503	ILE	Mainchain
3	D	1507	ASP	Mainchain
3	D	1508	LYS	Peptide,Mainchain
3	D	1509	GLN	Mainchain
3	D	1512	TRP	Mainchain
3	D	1516	LEU	Mainchain
3	D	1517	SER	Peptide,Mainchain
3	D	1518	ASN	Mainchain
3	D	1519	SER	Peptide
3	D	1538	SER	Mainchain
3	D	1541	THR	Mainchain
3	D	1542	PRO	Mainchain

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Mol	Chain	Res	Type	Group
1	E	259	SER	Mainchain
4	F	200	THR	Mainchain
4	F	208	GLN	Mainchain
4	F	210	VAL	Mainchain
4	F	221	GLN	Peptide,Mainchain
4	F	236	ASP	Mainchain
4	F	245	VAL	Mainchain
4	F	250	ASN	Mainchain
4	F	253	SER	Mainchain
4	F	393	GLN	Mainchain
4	F	397	ARG	Mainchain
4	F	398	LYS	Peptide,Mainchain
4	F	399	SER	Peptide
4	F	400	GLY	Mainchain
4	F	401	TYR	Mainchain
4	F	403	ILE	Peptide
4	F	419	GLY	Mainchain
4	F	420	GLU	Mainchain
4	F	421	LEU	Mainchain
4	F	422	ASN	Peptide,Mainchain
4	F	423	ALA	Mainchain
4	F	424	PRO	Peptide,Mainchain
4	F	425	THR	Mainchain
4	F	426	GLN	Mainchain
4	F	445	GLY	Mainchain
4	F	446	ALA	Mainchain
4	F	448	ARG	Mainchain
4	F	452	ARG	Mainchain
4	F	454	TYR	Peptide,Mainchain
4	F	456	ASP	Mainchain
4	F	457	ALA	Mainchain
4	F	459	LEU	Mainchain
4	F	462	GLU	Mainchain
4	F	463	ILE	Peptide
4	F	472	GLU	Mainchain
4	F	487	ASP	Mainchain
5	G	321	ASN	Mainchain
5	G	325	ALA	Mainchain
5	G	326	LEU	Peptide,Mainchain
5	G	329	GLN	Mainchain
5	G	330	LYS	Mainchain
5	G	340	ALA	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
5	G	341	ALA	Mainchain
5	G	343	ALA	Mainchain
6	H	374	SER	Mainchain
6	H	407	LEU	Mainchain
6	H	408	SER	Peptide
6	H	493	ALA	Peptide
6	H	497	ARG	Mainchain
2	I	11	GLN	Mainchain
2	I	4	GLU	Mainchain
2	I	6	PHE	Mainchain
2	I	7	GLY	Mainchain
7	J	1386	LYS	Peptide
7	J	1387	SER	Peptide
7	J	1465	GLU	Mainchain
1	K	259	SER	Mainchain
4	L	200	THR	Mainchain
4	L	208	GLN	Mainchain
4	L	210	VAL	Mainchain
4	L	221	GLN	Peptide,Mainchain
4	L	236	ASP	Mainchain
4	L	245	VAL	Mainchain
4	L	250	ASN	Mainchain
4	L	253	SER	Mainchain
4	L	393	GLN	Mainchain
4	L	397	ARG	Mainchain
4	L	398	LYS	Peptide,Mainchain
4	L	399	SER	Peptide
4	L	400	GLY	Mainchain
4	L	401	TYR	Mainchain
4	L	403	ILE	Peptide
4	L	419	GLY	Mainchain
4	L	420	GLU	Mainchain
4	L	421	LEU	Mainchain
4	L	422	ASN	Peptide,Mainchain
4	L	423	ALA	Mainchain
4	L	424	PRO	Peptide,Mainchain
4	L	425	THR	Mainchain
4	L	426	GLN	Mainchain
4	L	445	GLY	Mainchain
4	L	446	ALA	Mainchain
4	L	448	ARG	Mainchain
4	L	452	ARG	Mainchain

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Mol	Chain	Res	Type	Group
4	L	454	TYR	Peptide,Mainchain
4	L	456	ASP	Mainchain
4	L	457	ALA	Mainchain
4	L	459	LEU	Mainchain
4	L	462	GLU	Mainchain
4	L	463	ILE	Peptide
4	L	472	GLU	Mainchain
4	L	487	ASP	Mainchain
5	M	321	ASN	Mainchain
5	M	325	ALA	Mainchain
5	M	326	LEU	Peptide,Mainchain
5	M	329	GLN	Mainchain
5	M	330	LYS	Mainchain
5	M	340	ALA	Peptide,Mainchain
5	M	341	ALA	Mainchain
5	M	343	ALA	Mainchain
6	N	374	SER	Mainchain
6	N	407	LEU	Mainchain
6	N	408	SER	Peptide
6	N	493	ALA	Peptide
6	N	497	ARG	Mainchain
2	O	11	GLN	Mainchain
2	O	4	GLU	Mainchain
2	O	6	PHE	Mainchain
2	O	7	GLY	Mainchain
3	P	1448	MET	Mainchain
3	P	1449	TRP	Peptide
3	P	1450	GLU	Peptide
3	P	1484	ASP	Mainchain
3	P	1485	ALA	Mainchain
3	P	1486	CYS	Mainchain
3	P	1489	HIS	Mainchain
3	P	1503	ILE	Mainchain
3	P	1507	ASP	Mainchain
3	P	1508	LYS	Peptide,Mainchain
3	P	1509	GLN	Mainchain
3	P	1516	LEU	Mainchain
3	P	1517	SER	Peptide,Mainchain
3	P	1518	ASN	Mainchain
3	P	1519	SER	Peptide
3	P	1538	SER	Mainchain
3	P	1541	THR	Mainchain

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Mol	Chain	Res	Type	Group
3	P	1542	PRO	Mainchain
1	Q	259	SER	Mainchain
4	R	200	THR	Mainchain
4	R	208	GLN	Mainchain
4	R	210	VAL	Mainchain
4	R	221	GLN	Peptide,Mainchain
4	R	236	ASP	Mainchain
4	R	245	VAL	Mainchain
4	R	250	ASN	Mainchain
4	R	253	SER	Mainchain
4	R	393	GLN	Mainchain
4	R	397	ARG	Mainchain
4	R	398	LYS	Peptide,Mainchain
4	R	399	SER	Peptide
4	R	400	GLY	Mainchain
4	R	401	TYR	Mainchain
4	R	403	ILE	Peptide
4	R	419	GLY	Mainchain
4	R	420	GLU	Mainchain
4	R	421	LEU	Mainchain
4	R	422	ASN	Peptide,Mainchain
4	R	423	ALA	Mainchain
4	R	424	PRO	Peptide,Mainchain
4	R	425	THR	Mainchain
4	R	426	GLN	Mainchain
4	R	445	GLY	Mainchain
4	R	446	ALA	Mainchain
4	R	448	ARG	Mainchain
4	R	452	ARG	Mainchain
4	R	454	TYR	Peptide,Mainchain
4	R	456	ASP	Mainchain
4	R	457	ALA	Mainchain
4	R	459	LEU	Mainchain
4	R	462	GLU	Mainchain
4	R	463	ILE	Peptide
4	R	472	GLU	Mainchain
4	R	487	ASP	Mainchain
5	S	321	ASN	Mainchain
5	S	325	ALA	Mainchain
5	S	326	LEU	Peptide,Mainchain
5	S	329	GLN	Mainchain
5	S	330	LYS	Mainchain

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Mol	Chain	Res	Type	Group
5	S	340	ALA	Peptide,Mainchain
5	S	341	ALA	Mainchain
5	S	343	ALA	Mainchain
6	T	374	SER	Mainchain
6	T	407	LEU	Mainchain
6	T	408	SER	Peptide
6	T	493	ALA	Peptide
2	U	11	GLN	Mainchain
2	U	4	GLU	Mainchain
2	U	6	PHE	Mainchain
2	U	7	GLY	Mainchain
7	V	1386	LYS	Peptide
7	V	1387	SER	Peptide
7	V	1465	GLU	Mainchain
1	W	259	SER	Mainchain
4	X	200	THR	Mainchain
4	X	208	GLN	Mainchain
4	X	210	VAL	Mainchain
4	X	221	GLN	Peptide,Mainchain
4	X	236	ASP	Mainchain
4	X	245	VAL	Mainchain
4	X	250	ASN	Mainchain
4	X	253	SER	Mainchain
4	X	393	GLN	Mainchain
4	X	397	ARG	Mainchain
4	X	398	LYS	Peptide,Mainchain
4	X	399	SER	Peptide
4	X	400	GLY	Mainchain
4	X	401	TYR	Mainchain
4	X	403	ILE	Peptide
4	X	419	GLY	Mainchain
4	X	420	GLU	Mainchain
4	X	421	LEU	Mainchain
4	X	422	ASN	Peptide,Mainchain
4	X	423	ALA	Mainchain
4	X	424	PRO	Peptide,Mainchain
4	X	425	THR	Mainchain
4	X	426	GLN	Mainchain
4	X	445	GLY	Mainchain
4	X	446	ALA	Mainchain
4	X	448	ARG	Mainchain
4	X	452	ARG	Mainchain

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Mol	Chain	Res	Type	Group
4	X	454	TYR	Peptide,Mainchain
4	X	456	ASP	Mainchain
4	X	457	ALA	Mainchain
4	X	459	LEU	Mainchain
4	X	462	GLU	Mainchain
4	X	463	ILE	Peptide
4	X	472	GLU	Mainchain
4	X	487	ASP	Mainchain
5	Y	321	ASN	Mainchain
5	Y	325	ALA	Mainchain
5	Y	326	LEU	Peptide,Mainchain
5	Y	329	GLN	Mainchain
5	Y	330	LYS	Mainchain
5	Y	340	ALA	Peptide,Mainchain
5	Y	341	ALA	Mainchain
5	Y	343	ALA	Mainchain
6	Z	374	SER	Mainchain
6	Z	407	LEU	Mainchain
6	Z	408	SER	Peptide
6	Z	493	ALA	Peptide
6	Z	497	ARG	Mainchain

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	A	3214	0	1424	27	0
1	B	3214	0	1424	28	0
1	E	5366	0	2364	69	0
1	K	5366	0	2360	82	0
1	Q	5366	0	2364	73	0
1	W	5366	0	2364	65	0
2	C	3152	0	1403	163	0
2	I	3152	0	1408	37	0
2	O	3152	0	1405	94	0
2	U	3152	0	1408	37	0
3	D	5094	0	2272	130	0
3	P	5094	0	2273	87	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	F	1658	0	715	180	0
4	L	1658	0	715	178	0
4	R	1658	0	714	181	0
4	X	1658	0	715	179	0
5	G	853	0	384	58	0
5	M	853	0	384	58	0
5	S	853	0	384	60	0
5	Y	853	0	384	58	0
6	H	842	0	365	38	0
6	N	842	0	365	41	0
6	T	842	0	365	39	0
6	Z	842	0	365	39	0
7	J	6213	0	2770	91	0
7	V	6213	0	2770	88	0
All	All	76526	0	33864	1962	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

All (1962) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.64
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.63
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.62
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.62
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.62
1:E:1165:TYR:CA	1:K:727:PHE:HA	1.19	1.61
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.61
2:O:783:SER:CB	1:W:92:GLU:H	1.05	1.61
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.60
2:O:783:SER:H	1:W:92:GLU:CB	1.13	1.60
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.60
2:C:678:GLY:H	1:K:847:ARG:CB	0.97	1.59
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.59
4:L:235:ASP:CA	4:L:235:ASP:CB	1.79	1.59
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.59
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.58
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.58
4:F:235:ASP:CB	4:F:235:ASP:CA	1.79	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.58
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.58
4:X:260:THR:CA	4:X:260:THR:CB	1.82	1.58
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.58
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.58
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.57
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.57
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.57
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.57
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.57
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.57
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.57
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.56
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.56
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.56
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.56
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.56
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.56
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.56
4:X:235:ASP:CA	4:X:235:ASP:CB	1.78	1.56
2:C:303:ALA:C	1:Q:849:ASN:HA	1.22	1.56
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.56
4:R:260:THR:CB	4:R:260:THR:CA	1.82	1.55
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.55
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.55
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.55
2:C:303:ALA:HB1	1:Q:849:ASN:CA	1.10	1.55
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.55
2:C:303:ALA:CB	1:Q:849:ASN:CA	1.75	1.54
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.54
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.54
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.54
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.54
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.54
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.54
4:L:260:THR:CA	4:L:260:THR:CB	1.82	1.54
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.54
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.54
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.54
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.54
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.54
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.54
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.53
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.53
4:R:235:ASP:CA	4:R:235:ASP:CB	1.79	1.53
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.53
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.53
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.53
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.53
2:C:303:ALA:CA	1:Q:849:ASN:HA	1.29	1.52
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.52
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.52
5:M:325:ALA:C	5:M:325:ALA:CA	1.77	1.52
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.52
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.52
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.52
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.52
4:F:329:GLY:N	4:F:329:GLY:CA	1.72	1.52
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.52
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.52
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.52
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.52
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.51
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.51
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.51
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.51
2:C:534:LEU:CB	3:D:1667:ALA:H	1.21	1.51
4:F:260:THR:CA	4:F:260:THR:CB	1.82	1.51
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.51
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.51
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.51
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.51
2:C:303:ALA:CB	1:Q:849:ASN:CB	1.87	1.50
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.50
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.50
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.50
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.50
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.50
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.50
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.50
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.50
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.50
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.50
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.50
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.50
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.50
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.50
2:O:783:SER:CB	1:W:92:GLU:N	1.72	1.50
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.50
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.50
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.50
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.50
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.50
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.50
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.50
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.49
2:C:306:PRO:HA	1:Q:849:ASN:CB	1.04	1.49
2:C:678:GLY:N	1:K:847:ARG:CB	1.74	1.49
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.49
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.49
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.49
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.49
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.49
2:C:524:ARG:CB	3:D:1609:ILE:C	1.86	1.49
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.49
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.49
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.49
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.49
4:F:454:TYR:C	4:F:454:TYR:HA	1.38	1.49
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.49
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.49
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
1:E:1165:TYR:HA	1:K:727:PHE:CA	1.36	1.49
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.49
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.48
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.48
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.48
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.48
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.48
4:R:222:THR:C	4:R:222:THR:CA	1.87	1.48
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.48
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.48
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.48
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.48
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.48
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.48
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.48
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.48
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.47
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.47
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.47
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.47
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.47
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.47
4:F:459:LEU:CA	4:F:459:LEU:C	1.86	1.46
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.46
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.46
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.46
4:X:222:THR:CA	4:X:222:THR:C	1.87	1.46
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.46
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.46
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.46
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.46
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.46
5:S:378:SER:CA	5:S:378:SER:C	1.89	1.46
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.46
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.46
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.46
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.46
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.46
4:R:459:LEU:C	4:R:459:LEU:CA	1.87	1.45
4:L:222:THR:CA	4:L:222:THR:C	1.87	1.45
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.45
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.45
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.45
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.45
4:F:222:THR:CA	4:F:222:THR:C	1.87	1.45
5:G:378:SER:CA	5:G:378:SER:C	1.89	1.44
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.44
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.44
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.44
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.44
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.43
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.43
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.43
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.43
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.43
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.43
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.43
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.43
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.43
2:C:303:ALA:CB	1:Q:849:ASN:N	1.75	1.42
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.42
2:C:487:CYS:CB	3:D:1661:ARG:CB	1.95	1.42
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.42
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.41
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.41
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.41
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.39
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.39
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.39
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.39
2:O:783:SER:CB	1:W:91:PRO:N	1.84	1.39
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.39
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.38
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.38
2:C:303:ALA:HB1	1:Q:849:ASN:N	1.09	1.38
2:C:306:PRO:CA	1:Q:849:ASN:CB	2.00	1.38
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.38
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.37
4:X:454:TYR:C	4:X:454:TYR:HA	1.37	1.37
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.37
2:C:674:TYR:CB	1:K:849:ASN:HA	1.47	1.36
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.35
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.35
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.35
2:C:483:GLU:CB	3:D:1658:ALA:HA	1.57	1.35
2:C:676:ALA:HB1	1:K:846:ILE:O	1.23	1.35
2:O:654:SER:C	3:P:1454:ALA:O	1.67	1.34
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.34
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.34
2:C:303:ALA:CA	1:Q:849:ASN:CA	2.00	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.33
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.32
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.32
5:M:327:ARG:CA	5:M:327:ARG:C	2.02	1.32
2:O:589:ASN:O	1:W:850:ALA:N	1.63	1.31
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.01	1.31
2:C:534:LEU:CB	3:D:1667:ALA:N	1.92	1.30
2:C:303:ALA:HB1	1:Q:849:ASN:CB	1.50	1.30
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.30
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.30
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.30
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.30
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.93	1.29
2:C:530:ARG:O	3:D:1664:ASP:CA	1.77	1.29
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.29
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.29
2:C:524:ARG:CB	3:D:1609:ILE:CB	2.11	1.28
2:C:531:LEU:O	3:D:1663:GLN:CB	1.81	1.27
2:C:674:TYR:CB	1:K:849:ASN:CA	2.08	1.27
4:R:222:THR:CA	4:R:222:THR:N	1.99	1.25
1:E:852:VAL:CB	2:O:304:PRO:CB	2.13	1.25
4:L:222:THR:CA	4:L:222:THR:N	1.99	1.25
4:X:222:THR:CA	4:X:222:THR:N	1.99	1.24
4:F:222:THR:CA	4:F:222:THR:N	1.99	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.24
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.24
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.24
2:O:654:SER:O	3:P:1455:PRO:HA	1.06	1.23
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.23
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.22
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.22
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.21
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.21
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.21
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.21
5:M:379:HIS:C	5:M:380:ILE:N	1.99	1.21
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.21
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.21
5:G:379:HIS:C	5:G:380:ILE:N	1.98	1.21
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.21
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.20
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.20
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.20
2:O:654:SER:O	3:P:1455:PRO:CA	1.89	1.20
5:S:379:HIS:C	5:S:380:ILE:N	1.98	1.20
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.20
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.19
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.19
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.19
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.18
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.18
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.18
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.18
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.17
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.17
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.17
2:C:524:ARG:O	3:D:1610:PRO:N	1.77	1.17
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.16
2:C:304:PRO:N	1:Q:849:ASN:HA	1.60	1.16
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.16
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.16
2:C:531:LEU:O	3:D:1664:ASP:N	1.79	1.16
1:E:1165:TYR:CA	1:K:727:PHE:CA	2.04	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.16
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.16
1:E:1169:SER:CB	1:K:575:ARG:CB	2.24	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.15
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.15
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.15
2:O:654:SER:CA	3:P:1454:ALA:O	1.95	1.15
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.15
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.15
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.14
1:E:1165:TYR:CB	1:K:727:PHE:CA	2.21	1.14
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.14
2:C:303:ALA:C	1:Q:849:ASN:CA	2.12	1.14
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.14
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.14
4:L:450:GLU:O	4:L:451:GLU:HA	1.37	1.13
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.13
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.13
2:O:783:SER:N	1:W:92:GLU:CB	1.87	1.13
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.13
4:R:452:ARG:HA	4:R:453:TYR:CA	1.76	1.12
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.12
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.12
2:O:779:GLU:CB	1:W:136:TYR:CB	2.27	1.12
2:C:530:ARG:O	3:D:1664:ASP:HA	0.95	1.11
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.11
4:F:450:GLU:O	4:F:451:GLU:HA	1.38	1.11
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.11
2:C:677:GLN:O	1:K:852:VAL:CB	1.97	1.11
2:C:674:TYR:CB	1:K:849:ASN:CB	2.29	1.10
1:E:848:ASP:HA	2:O:303:ALA:HB1	1.34	1.10
4:R:402:ALA:HB3	4:R:403:ILE:N	1.12	1.10
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.09
2:C:483:GLU:CB	3:D:1658:ALA:CA	2.30	1.09
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.09
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.09
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.09
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.09
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.09
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.09
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.09
2:C:676:ALA:CB	1:K:846:ILE:O	1.99	1.08
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.08
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.08
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.08
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.08
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.08
2:C:538:LYS:CB	3:D:1671:GLN:HA	1.78	1.08
2:O:783:SER:CB	1:W:91:PRO:CA	2.31	1.08
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.08
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.08
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.08
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.08
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.07
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.07
2:O:654:SER:O	3:P:1454:ALA:O	1.64	1.07
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.07
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.07
2:C:303:ALA:HB2	1:Q:849:ASN:CB	1.85	1.07
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.07
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.07
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.07
7:V:846:ALA:HB3	7:V:852:ILE:H	1.14	1.07
4:X:454:TYR:HA	4:X:455:ILE:N	1.66	1.07
7:J:846:ALA:HB3	7:J:852:ILE:H	1.14	1.06
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	1.06
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.06
2:C:524:ARG:CB	3:D:1609:ILE:O	2.03	1.06
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.06
4:X:451:GLU:C	4:X:451:GLU:HA	1.78	1.06
4:L:451:GLU:C	4:L:451:GLU:HA	1.77	1.06
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.05
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.05
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.05
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.05
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.04
4:R:451:GLU:C	4:R:451:GLU:HA	1.77	1.04
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.04
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.03
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.03
1:E:1165:TYR:CB	1:K:727:PHE:C	2.32	1.03
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.03
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.02
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.02
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.02
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.02
4:F:455:ILE:O	4:F:456:ASP:C	2.02	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.02
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.01
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.01
2:O:783:SER:CB	1:W:91:PRO:C	2.32	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.00
4:L:222:THR:C	4:L:222:THR:CB	2.34	1.00
4:R:222:THR:C	4:R:222:THR:CB	2.34	1.00
4:X:222:THR:C	4:X:222:THR:CB	2.34	1.00
1:E:1165:TYR:CB	1:K:727:PHE:HA	1.89	1.00
4:F:222:THR:C	4:F:222:THR:CB	2.34	1.00
2:C:524:ARG:CB	3:D:1609:ILE:CA	2.39	1.00
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	0.99
1:E:847:ARG:O	2:O:303:ALA:HB1	1.61	0.99
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.99
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	0.99
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.99
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	0.99
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.99
2:O:783:SER:H	1:W:92:GLU:CA	1.75	0.99
2:C:538:LYS:CB	3:D:1671:GLN:CA	2.27	0.99
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.99
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.99
4:L:311:GLN:C	4:L:311:GLN:CB	2.36	0.98
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.98
4:X:455:ILE:O	4:X:456:ASP:C	2.02	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.97
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.97
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.97
2:O:589:ASN:CB	1:W:849:ASN:CB	2.43	0.97
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.97
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.97
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.97
6:H:409:PRO:C	6:H:409:PRO:CB	2.37	0.96
2:C:524:ARG:C	3:D:1610:PRO:CA	2.31	0.96
4:L:455:ILE:O	4:L:456:ASP:C	2.02	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
2:C:303:ALA:CA	1:Q:849:ASN:CB	2.34	0.95
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.95
2:C:15:GLN:C	2:C:15:GLN:CB	2.39	0.95
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
2:I:15:GLN:C	2:I:15:GLN:CB	2.39	0.95
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.95
2:O:15:GLN:C	2:O:15:GLN:CB	2.39	0.95
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.95
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.94
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.94
2:C:523:LEU:H	3:D:1613:VAL:CB	1.81	0.94
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.94
2:C:303:ALA:CB	1:Q:849:ASN:H	1.81	0.94
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.93
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.93
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.93
2:O:589:ASN:C	1:W:850:ALA:H	1.76	0.93
1:E:848:ASP:HA	2:O:303:ALA:CB	1.99	0.93
2:C:675:ARG:N	1:K:849:ASN:CB	2.26	0.92
2:C:303:ALA:HB3	1:Q:849:ASN:N	1.81	0.92
2:C:523:LEU:CB	3:D:1613:VAL:CB	2.47	0.92
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.92
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.92
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.92
2:C:303:ALA:HB1	1:Q:848:ASP:C	1.95	0.91
2:C:483:GLU:CB	3:D:1658:ALA:CB	2.49	0.91
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.90
3:D:751:ALA:HB3	3:D:754:ARG:CB	2.02	0.90
2:O:654:SER:CB	3:P:1454:ALA:O	2.19	0.90
2:C:535:TYR:CA	3:D:1663:GLN:HA	2.02	0.90
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.90
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.90
3:P:751:ALA:HB3	3:P:754:ARG:CB	2.02	0.89
2:C:677:GLN:C	1:K:852:VAL:CB	2.45	0.89
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.89
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.89
2:C:524:ARG:C	3:D:1610:PRO:N	2.30	0.89
2:C:303:ALA:HA	1:Q:849:ASN:CB	2.02	0.89
2:O:783:SER:CA	1:W:92:GLU:H	1.85	0.89
7:V:846:ALA:HB2	7:V:849:ASN:N	1.88	0.89
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.89
7:J:846:ALA:HB2	7:J:849:ASN:N	1.88	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.88
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.88
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.88
2:C:304:PRO:N	1:Q:849:ASN:CA	2.29	0.88
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.88
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.87
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.87
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
1:E:1170:SER:H	1:K:576:TYR:CB	1.86	0.87
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.87
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
2:C:534:LEU:CB	3:D:1666:SER:N	2.38	0.87
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.87
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.86
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.86
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.86
2:C:303:ALA:HA	1:Q:849:ASN:HA	1.52	0.86
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.85
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.85
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.85
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:472:GLU:N	4:L:472:GLU:CB	2.37	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.85
2:C:522:CYS:CB	3:D:1664:ASP:CB	2.54	0.85
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.85
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.85
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.85
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.84
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.84
2:C:306:PRO:HA	1:Q:849:ASN:CA	2.05	0.84
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.84
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.84
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.84
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.84
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.84
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.84
1:E:852:VAL:CB	2:O:305:LEU:N	2.41	0.84
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.84
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.84
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.84
2:C:535:TYR:CB	3:D:1663:GLN:CB	2.56	0.83
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
1:E:1169:SER:CB	1:K:572:ALA:HA	2.07	0.83
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.83
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.83
7:V:1512:SER:O	7:V:1546:ALA:HB3	1.79	0.83
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.82
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.82
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.82
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.82
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.82
2:C:530:ARG:C	3:D:1664:ASP:HA	2.02	0.82
2:C:486:ARG:CB	3:D:1661:ARG:C	2.39	0.82
7:J:1512:SER:O	7:J:1546:ALA:HB3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:535:TYR:CB	3:D:1663:GLN:HA	2.10	0.82
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.82
6:H:374:SER:CB	6:H:374:SER:N	2.43	0.81
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.81
7:J:1175:GLY:HA3	7:J:1197:GLN:H	1.44	0.81
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.81
2:C:535:TYR:H	3:D:1664:ASP:H	1.28	0.81
2:O:654:SER:O	3:P:1454:ALA:C	2.22	0.81
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.81
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.81
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.81
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.81
2:C:531:LEU:O	3:D:1663:GLN:C	2.23	0.81
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.81
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.81
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.81
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.81
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.81
7:V:1175:GLY:HA3	7:V:1197:GLN:H	1.44	0.81
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.81
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.81
2:C:173:PRO:N	3:D:1686:PRO:C	2.19	0.81
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.81
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.80
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.80
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.80
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.80
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.80
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.80
4:F:471:GLN:C	4:F:472:GLU:CA	2.54	0.80
2:C:524:ARG:CB	3:D:1610:PRO:N	2.44	0.80
2:C:524:ARG:C	3:D:1610:PRO:HA	2.06	0.80
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.80
3:D:286:GLN:CB	3:D:304:LYS:HA	2.11	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.54	0.80
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.80
2:C:677:GLN:C	1:K:847:ARG:CB	2.51	0.80
3:P:286:GLN:CB	3:P:304:LYS:HA	2.11	0.80
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.80
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.80
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.80
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.80
7:J:846:ALA:HB3	7:J:852:ILE:N	1.96	0.80
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.80
2:C:303:ALA:HA	1:Q:849:ASN:CA	2.08	0.79
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.79
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.79
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.79
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.12	0.79
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.79
7:V:251:ARG:CB	7:V:256:GLU:HA	2.13	0.79
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.79
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.55	0.79
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.79
2:O:783:SER:CB	1:W:90:PRO:C	2.56	0.78
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.12	0.78
2:C:535:TYR:CB	3:D:1663:GLN:CA	2.62	0.78
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.78
2:C:304:PRO:N	1:Q:849:ASN:C	2.39	0.78
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.78
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.78
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.78
2:C:679:ILE:O	1:K:854:GLY:N	1.98	0.78
7:J:251:ARG:CB	7:J:256:GLU:HA	2.13	0.78
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.78
7:V:493:LEU:O	7:V:520:GLN:HA	1.84	0.78
7:V:846:ALA:HB3	7:V:852:ILE:N	1.96	0.78
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.78
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.78
2:O:591:GLY:CA	1:W:849:ASN:O	2.32	0.78
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.78
2:C:534:LEU:CB	3:D:1665:VAL:C	2.52	0.77
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.77
4:R:235:ASP:CB	4:R:235:ASP:N	2.47	0.77
4:X:456:ASP:CA	4:X:457:ALA:N	2.34	0.77
7:J:493:LEU:O	7:J:520:GLN:HA	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.77
4:X:235:ASP:CB	4:X:235:ASP:N	2.47	0.77
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.77
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.77
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.77
6:T:408:SER:HA	6:T:410:LEU:N	1.97	0.77
4:L:235:ASP:CB	4:L:235:ASP:N	2.47	0.77
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.77
1:E:276:ASP:CB	1:E:295:SER:CB	2.63	0.77
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.77
7:V:1465:GLU:C	7:V:1473:LEU:HA	2.10	0.77
1:W:276:ASP:CB	1:W:295:SER:CB	2.63	0.77
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.77
2:C:523:LEU:N	3:D:1613:VAL:CB	2.48	0.77
2:C:676:ALA:C	1:K:846:ILE:O	2.28	0.77
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.77
1:K:276:ASP:CB	1:K:295:SER:CB	2.63	0.77
6:Z:408:SER:HA	6:Z:410:LEU:N	1.98	0.77
1:A:276:ASP:CB	1:A:295:SER:CB	2.63	0.76
4:F:456:ASP:CA	4:F:457:ALA:N	2.33	0.76
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.76
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.76
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.76
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.76
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.76
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.76
1:Q:276:ASP:CB	1:Q:295:SER:CB	2.63	0.76
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.76
4:F:235:ASP:CB	4:F:235:ASP:N	2.47	0.76
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.76
1:B:276:ASP:CB	1:B:295:SER:CB	2.63	0.76
6:H:408:SER:HA	6:H:410:LEU:N	1.98	0.76
7:J:1465:GLU:C	7:J:1473:LEU:HA	2.10	0.76
1:E:1165:TYR:HA	1:K:727:PHE:N	2.00	0.75
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.75
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.75
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.75
4:F:488:ILE:N	4:F:488:ILE:HA	1.94	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.74
2:O:589:ASN:O	1:W:849:ASN:CB	2.35	0.74
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.74
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.74
2:O:591:GLY:HA3	1:W:849:ASN:O	1.66	0.74
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.74
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.74
4:X:260:THR:CB	4:X:260:THR:C	2.61	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.73
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.73
4:L:260:THR:CB	4:L:260:THR:C	2.60	0.73
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.73
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.73
4:R:260:THR:CB	4:R:260:THR:C	2.60	0.73
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.73
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.73
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.73
2:O:522:CYS:N	3:P:1662:CYS:C	2.32	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.54	0.72
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.72
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.72
4:F:260:THR:CB	4:F:260:THR:C	2.61	0.72
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.72
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
4:F:402:ALA:HB2	4:F:403:ILE:H	1.53	0.72
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.72
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.72
7:J:1467:HIS:CB	7:J:1475:ARG:HA	2.20	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.71	0.72
7:V:860:TYR:CB	7:V:869:ARG:H	2.02	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
7:J:860:TYR:CB	7:J:869:ARG:H	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.72
2:O:781:ARG:HA	1:W:92:GLU:C	2.15	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.71
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.71
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.71
7:V:1467:HIS:CB	7:V:1475:ARG:HA	2.20	0.71
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.71
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.71
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.71	0.71
7:J:643:ALA:HB1	7:J:658:MET:C	2.16	0.71
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.71
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.71
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.71
4:R:454:TYR:HA	4:R:455:ILE:CA	2.20	0.71
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.71
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.71	0.71
2:C:305:LEU:HA	1:Q:848:ASP:C	2.16	0.70
7:J:1520:ARG:HA	7:J:1541:ALA:HB2	1.73	0.70
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.70
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.70
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.70
1:E:1165:TYR:CB	1:K:727:PHE:O	2.37	0.70
4:R:252:THR:CB	4:R:320:GLU:CB	2.70	0.70
7:V:643:ALA:HB1	7:V:658:MET:O	1.92	0.70
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.70
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.70
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.70
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.70
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.70
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.70
7:J:643:ALA:HB1	7:J:658:MET:O	1.92	0.70
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.70
2:C:679:ILE:O	1:K:851:ALA:O	2.08	0.70
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.70
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.70
7:V:643:ALA:HB1	7:V:658:MET:C	2.15	0.70
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.71	0.70
4:L:158:ASN:HA	4:L:321:LYS:O	1.92	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.69
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.69
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.69
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.69
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.69
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.69
2:C:530:ARG:O	3:D:1664:ASP:CB	2.40	0.69
4:F:454:TYR:HA	4:F:455:ILE:CA	2.21	0.69
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.69
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.69
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.69
4:R:158:ASN:HA	4:R:321:LYS:O	1.93	0.69
7:V:1520:ARG:HA	7:V:1541:ALA:HB2	1.74	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.55	0.69
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.69
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.69
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.69
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.69
1:A:441:PHE:HA	1:A:444:PRO:O	1.93	0.68
1:E:845:TYR:CB	2:O:299:ILE:HA	2.21	0.68
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.68
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
1:E:1165:TYR:C	1:K:727:PHE:HA	2.12	0.68
4:L:451:GLU:N	4:L:451:GLU:CB	2.55	0.68
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.68
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.68
4:F:158:ASN:HA	4:F:321:LYS:O	1.92	0.68
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.68
4:F:451:GLU:CB	4:F:451:GLU:N	2.55	0.68
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.68
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.68
4:L:367:THR:C	4:L:367:THR:N	2.52	0.68
2:O:784:GLN:CB	1:W:131:GLY:C	2.67	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.68
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ALA:CA	1:K:846:ILE:O	2.41	0.67
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.67
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.67
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.67
2:C:535:TYR:N	3:D:1664:ASP:H	1.93	0.67
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
7:J:643:ALA:HB1	7:J:658:MET:N	2.08	0.67
4:L:260:THR:CB	4:L:260:THR:N	2.57	0.67
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.67
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.67
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
4:X:260:THR:CB	4:X:260:THR:N	2.57	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.67
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.67
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.66
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.25	0.66
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.66
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
4:R:260:THR:CB	4:R:260:THR:N	2.57	0.66
4:R:367:THR:C	4:R:367:THR:N	2.52	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
7:V:643:ALA:HB1	7:V:658:MET:N	2.08	0.66
2:C:535:TYR:HA	3:D:1663:GLN:HA	1.74	0.66
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.66
7:V:858:TYR:CB	7:V:867:LEU:H	2.08	0.66
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.66
1:E:852:VAL:N	2:O:305:LEU:O	2.27	0.66
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.66
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.66
4:F:260:THR:CB	4:F:260:THR:N	2.57	0.66
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
4:X:367:THR:C	4:X:367:THR:N	2.52	0.66
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:675:ARG:CA	1:K:849:ASN:CB	2.73	0.66
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
7:J:858:TYR:CB	7:J:867:LEU:H	2.08	0.65
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.25	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.65
7:J:846:ALA:CB	7:J:852:ILE:H	2.01	0.65
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.65
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.65
2:O:655:ALA:CB	3:P:1447:THR:O	2.45	0.65
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.54	0.65
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.65
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.65
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.65
7:J:94:GLN:C	7:J:96:TYR:H	2.04	0.65
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.65
2:C:483:GLU:CB	3:D:1658:ALA:HB2	2.27	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.55	0.65
7:V:251:ARG:HA	7:V:254:VAL:O	1.97	0.65
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.64
7:J:251:ARG:HA	7:J:254:VAL:O	1.97	0.64
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.64
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.64
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.11	0.64
7:V:846:ALA:CB	7:V:852:ILE:H	2.01	0.64
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.64
2:C:523:LEU:CA	3:D:1613:VAL:CB	2.76	0.64
2:C:531:LEU:HA	3:D:1664:ASP:CB	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.11	0.64
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.64
7:V:1177:VAL:CB	7:V:1198:LEU:H	2.10	0.64
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.64
2:C:524:ARG:O	3:D:1610:PRO:CB	2.45	0.64
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.64
7:V:94:GLN:C	7:V:96:TYR:H	2.04	0.64
7:V:792:MET:HA	7:V:803:GLY:N	2.13	0.64
1:E:851:ALA:HB3	2:O:305:LEU:O	1.96	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.64
1:E:847:ARG:O	2:O:305:LEU:N	2.24	0.63
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.63
4:L:493:HIS:CB	4:L:493:HIS:C	2.60	0.63
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.63
2:C:305:LEU:CA	1:Q:848:ASP:C	2.67	0.63
2:C:534:LEU:CA	3:D:1668:GLY:H	2.11	0.63
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.63
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.63
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.63
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.63
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.63
7:J:1177:VAL:CB	7:J:1198:LEU:H	2.10	0.63
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.63
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.63
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.63
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.63
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.63
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.63
4:F:235:ASP:CB	4:F:235:ASP:C	2.68	0.63
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
2:C:534:LEU:HA	3:D:1668:GLY:H	1.64	0.63
3:D:174:THR:HA	3:D:181:GLY:HA3	1.80	0.63
3:P:174:THR:HA	3:P:181:GLY:HA3	1.80	0.63
2:O:783:SER:CA	1:W:92:GLU:N	2.54	0.63
1:A:205:LEU:C	1:A:207:SER:HA	2.24	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:J:1177:VAL:N	7:J:1197:GLN:HA	2.15	0.62
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.62
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.62
4:X:493:HIS:CB	4:X:493:HIS:C	2.60	0.62
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
7:V:1177:VAL:N	7:V:1197:GLN:HA	2.14	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.24	0.62
2:C:306:PRO:O	1:Q:850:ALA:HB3	1.99	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.62
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
2:O:784:GLN:CB	1:W:132:GLY:HA2	2.29	0.62
7:J:792:MET:HA	7:J:803:GLY:N	2.13	0.62
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.62
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
1:E:852:VAL:CB	2:O:304:PRO:C	2.72	0.61
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.61
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.61
7:V:1463:MET:C	7:V:1465:GLU:H	2.08	0.61
2:C:679:ILE:O	1:K:851:ALA:C	2.44	0.61
2:O:654:SER:N	3:P:1454:ALA:O	2.32	0.61
7:J:794:ALA:HB3	7:J:804:GLN:HA	1.82	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.61
7:V:794:ALA:HB3	7:V:804:GLN:HA	1.82	0.61
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.61
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.60
7:V:363:GLN:O	7:V:366:ALA:HB3	2.01	0.60
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.60
4:R:493:HIS:CB	4:R:493:HIS:C	2.61	0.60
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.60
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.60
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.83	0.60
7:J:363:GLN:O	7:J:366:ALA:HB3	2.01	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
2:O:654:SER:O	3:P:1455:PRO:N	2.33	0.60
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.60
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.60
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.60
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.60
2:C:303:ALA:HB3	1:Q:849:ASN:H	1.50	0.60
7:J:1463:MET:C	7:J:1465:GLU:H	2.08	0.60
7:J:846:ALA:HB1	7:J:852:ILE:CB	2.31	0.60
2:C:306:PRO:C	1:Q:850:ALA:H	2.05	0.60
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.60
7:J:471:MET:O	7:J:535:SER:HA	2.01	0.60
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.60
6:N:408:SER:C	6:N:409:PRO:C	2.65	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
7:V:471:MET:O	7:V:535:SER:HA	2.01	0.59
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.59
7:V:846:ALA:HB1	7:V:852:ILE:CB	2.31	0.59
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.59
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.83	0.59
7:V:644:HIS:C	7:V:660:ALA:H	2.11	0.59
2:O:655:ALA:HB1	3:P:1447:THR:O	2.02	0.59
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.59
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.59
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.59
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.59
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
4:L:235:ASP:CB	4:L:235:ASP:C	2.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.59
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.58
7:J:644:HIS:C	7:J:660:ALA:H	2.11	0.58
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.58
2:O:783:SER:H	1:W:92:GLU:N	2.00	0.58
2:C:524:ARG:O	3:D:1610:PRO:CA	2.40	0.58
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.58
7:J:1373:SER:CB	7:J:1426:HIS:HA	2.34	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.58
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.58
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.58
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.58
4:X:235:ASP:CB	4:X:235:ASP:C	2.68	0.58
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.58
7:J:485:VAL:HA	7:J:495:ARG:HA	1.86	0.58
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.58
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.58
1:E:1165:TYR:CA	1:K:727:PHE:N	2.47	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.57
7:V:485:VAL:HA	7:V:495:ARG:HA	1.86	0.57
7:V:1373:SER:CB	7:V:1426:HIS:HA	2.34	0.57
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.57
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.57
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.57
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.57
2:C:534:LEU:CB	3:D:1667:ALA:CA	2.80	0.57
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.57
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.57
2:C:535:TYR:N	3:D:1664:ASP:N	2.52	0.57
2:C:681:ALA:H	1:K:850:ALA:HA	1.69	0.57
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.57
5:S:379:HIS:N	5:S:379:HIS:HA	2.06	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
7:J:1177:VAL:H	7:J:1197:GLN:HA	1.69	0.57
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
1:E:847:ARG:O	2:O:303:ALA:CB	2.47	0.57
7:V:498:THR:HA	7:V:515:GLN:CB	2.35	0.57
2:C:681:ALA:HB3	1:K:850:ALA:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.56
3:P:1504:VAL:O	3:P:1505:SER:C	2.39	0.56
2:C:303:ALA:C	1:Q:849:ASN:N	2.56	0.56
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.56
4:R:235:ASP:CB	4:R:235:ASP:C	2.68	0.56
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.56
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.56
2:C:306:PRO:N	1:Q:849:ASN:CB	2.61	0.56
2:C:487:CYS:H	3:D:1661:ARG:CB	2.11	0.56
1:E:1165:TYR:HA	1:K:727:PHE:CB	2.29	0.56
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
2:C:676:ALA:O	1:K:846:ILE:O	2.21	0.56
1:E:1165:TYR:HA	1:K:727:PHE:HA	0.58	0.56
7:J:249:THR:HA	7:J:253:LEU:N	2.20	0.56
7:V:249:THR:HA	7:V:253:LEU:N	2.20	0.56
2:C:306:PRO:C	1:Q:849:ASN:CB	2.76	0.56
2:C:681:ALA:HB3	1:K:850:ALA:CB	2.35	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.56
2:O:483:GLU:HA	2:O:484:ARG:N	2.20	0.56
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.56
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.56
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.56
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.56
4:R:449:SER:O	4:R:452:ARG:N	2.38	0.56
4:X:222:THR:C	4:X:247:ARG:H	2.14	0.56
4:X:449:SER:O	4:X:452:ARG:N	2.39	0.56
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.56
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.56
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.56
2:C:306:PRO:CA	1:Q:849:ASN:CA	2.70	0.56
2:C:531:LEU:C	3:D:1664:ASP:N	2.62	0.56
4:L:222:THR:C	4:L:247:ARG:H	2.14	0.56
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.55
7:V:1177:VAL:H	7:V:1197:GLN:HA	1.69	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.55
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.55
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.55
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.55
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.55
2:O:783:SER:CB	1:W:91:PRO:CB	2.85	0.55
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.55
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.55
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.55
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
7:V:846:ALA:HB2	7:V:849:ASN:CA	2.36	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.55
2:C:522:CYS:CB	3:D:1663:GLN:O	2.55	0.55
2:C:679:ILE:O	1:K:850:ALA:O	2.24	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.55
4:F:222:THR:C	4:F:247:ARG:H	2.14	0.54
7:J:498:THR:HA	7:J:515:GLN:CB	2.35	0.54
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.54
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.54
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.54
7:V:249:THR:HA	7:V:253:LEU:HA	1.89	0.54
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.54
7:J:846:ALA:HB2	7:J:849:ASN:CA	2.36	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.33	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.55	0.54
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.55	0.54
2:O:784:GLN:CB	1:W:132:GLY:N	2.70	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.56	0.54
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.54
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.55	0.54
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
7:V:848:GLY:O	7:V:890:LEU:HA	2.08	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.54
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.54
7:J:848:GLY:O	7:J:890:LEU:HA	2.08	0.54
4:R:222:THR:C	4:R:247:ARG:H	2.14	0.54
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.54
7:V:829:PRO:HA	7:V:832:ASN:HA	1.90	0.54
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.54
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.54
1:E:181:ALA:O	1:E:196:GLY:HA2	2.08	0.54
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.54
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.54
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.53
2:O:589:ASN:O	1:W:850:ALA:CA	2.52	0.53
4:R:485:LEU:HA	4:R:488:ILE:CB	2.39	0.53
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.08	0.53
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.53
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.32	0.53
7:J:829:PRO:HA	7:J:832:ASN:HA	1.90	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.53
2:C:306:PRO:CB	1:Q:848:ASP:C	2.74	0.53
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.53
4:L:404:GLN:O	4:L:405:ALA:HB2	2.08	0.53
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.09	0.53
4:L:485:LEU:HA	4:L:488:ILE:CB	2.38	0.53
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.53
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.53
7:J:147:PHE:C	7:J:149:ASP:H	2.17	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
2:C:306:PRO:CB	1:Q:848:ASP:CB	2.87	0.53
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.53
4:F:485:LEU:HA	4:F:488:ILE:CB	2.38	0.53
2:C:534:LEU:CA	3:D:1668:GLY:N	2.70	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.53
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.53
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.53
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.53
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.09	0.53
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.53
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.53
2:C:231:THR:C	2:C:233:VAL:H	2.18	0.52
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.52
7:J:249:THR:HA	7:J:253:LEU:HA	1.89	0.52
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
4:X:198:LYS:C	4:X:200:THR:N	2.58	0.52
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.52
4:R:159:ILE:CB	4:R:254:ARG:HA	2.40	0.52
7:V:147:PHE:C	7:V:149:ASP:H	2.17	0.52
3:D:644:ALA:HB2	3:D:702:PRO:C	2.35	0.52
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.52
3:P:644:ALA:HB2	3:P:702:PRO:C	2.35	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
7:V:1519:GLN:O	7:V:1541:ALA:HB2	2.09	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.52
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.52
2:O:653:ILE:CB	3:P:1456:GLU:HA	2.40	0.52
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.52
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.52
7:V:389:LEU:HA	7:V:397:LEU:O	2.10	0.52
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.52
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.52
4:F:222:THR:O	4:F:246:GLU:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.17	0.52
4:X:450:GLU:O	4:X:451:GLU:CA	2.33	0.52
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.52
2:O:783:SER:N	1:W:92:GLU:N	2.55	0.52
7:V:1175:GLY:CA	7:V:1197:GLN:H	2.19	0.52
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
1:W:181:ALA:O	1:W:196:GLY:HA2	2.08	0.52
2:C:531:LEU:O	3:D:1663:GLN:CA	2.53	0.52
3:D:49:ASP:C	3:D:51:ILE:H	2.18	0.52
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.52
7:J:1519:GLN:O	7:J:1541:ALA:HB2	2.09	0.52
7:V:644:HIS:O	7:V:659:ASN:HA	2.10	0.52
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:538:LYS:HA	3:D:1671:GLN:C	1.95	0.51
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.51
7:J:644:HIS:O	7:J:659:ASN:HA	2.10	0.51
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.51
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.51
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.51
7:J:1436:ALA:C	7:J:1438:ARG:H	2.18	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.18	0.51
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.51
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.51
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.51
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.51
4:R:399:SER:CA	4:R:401:TYR:N	2.73	0.51
6:T:462:GLY:CA	6:T:462:GLY:O	2.50	0.51
4:X:222:THR:O	4:X:246:GLU:HA	2.10	0.51
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
7:J:389:LEU:HA	7:J:397:LEU:O	2.10	0.51
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.51
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.51
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.51
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
4:L:222:THR:O	4:L:246:GLU:HA	2.10	0.51
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
7:J:1353:VAL:O	7:J:1356:ALA:HB3	2.10	0.51
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.51
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.51
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.51
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.51
7:V:1353:VAL:O	7:V:1356:ALA:HB3	2.10	0.51
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.51
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.51
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.51
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.51
7:V:1436:ALA:C	7:V:1438:ARG:H	2.18	0.51
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.51
6:H:490:GLN:CB	6:H:490:GLN:N	2.58	0.51
7:J:249:THR:HA	7:J:253:LEU:CA	2.41	0.51
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
4:R:222:THR:O	4:R:246:GLU:HA	2.10	0.51
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.51
7:J:1175:GLY:HA2	7:J:1196:GLN:HA	1.93	0.50
4:L:458:ASP:C	4:L:459:LEU:C	2.79	0.50
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.50
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.50
7:V:250:ASN:N	7:V:253:LEU:HA	2.26	0.50
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.78	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.50
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.50
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:784:GLN:CB	1:W:132:GLY:CA	2.88	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
7:V:249:THR:HA	7:V:253:LEU:CA	2.41	0.50
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.50
2:C:675:ARG:HA	1:K:849:ASN:CB	2.40	0.50
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.50
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.50
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.50
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.50
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.50
2:O:589:ASN:O	1:W:849:ASN:C	2.49	0.50
7:V:1175:GLY:HA2	7:V:1196:GLN:HA	1.93	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.50
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.50
7:J:250:ASN:N	7:J:253:LEU:HA	2.26	0.50
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.50
7:J:1175:GLY:CA	7:J:1197:GLN:H	2.19	0.50
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.50
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.50
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.50
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.50
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.50
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.50
5:M:325:ALA:CA	5:M:326:LEU:N	2.68	0.50
2:O:783:SER:N	1:W:92:GLU:H	2.10	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.50
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.50
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.50
6:N:490:GLN:CB	6:N:490:GLN:N	2.58	0.50
3:P:324:GLY:O	3:P:327:ALA:HB3	2.12	0.50
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.50
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.50
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.49
7:J:192:GLY:C	7:J:194:LEU:H	2.20	0.49
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.49
7:V:192:GLY:C	7:V:194:LEU:H	2.20	0.49
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.49
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.13	0.49
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.49
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:675:ARG:O	1:K:851:ALA:HB3	2.12	0.49
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.49
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.49
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.49
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.49
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.49
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.49
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.49
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.49
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.49
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.49
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.49
3:D:324:GLY:O	3:D:327:ALA:HB3	2.12	0.49
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.49
2:U:469:THR:O	2:U:470:ALA:HB3	2.12	0.49
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.49
7:V:794:ALA:C	7:V:807:GLY:H	2.20	0.49
7:J:794:ALA:C	7:J:807:GLY:H	2.20	0.48
2:O:653:ILE:CB	3:P:1456:GLU:CA	2.91	0.48
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.48
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.48
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.48
7:V:846:ALA:HB2	7:V:849:ASN:C	2.38	0.48
2:C:487:CYS:CB	3:D:1661:ARG:CA	2.85	0.48
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.48
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.48
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
7:J:846:ALA:HB2	7:J:849:ASN:C	2.38	0.48
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.48
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.48
4:L:450:GLU:O	4:L:451:GLU:CA	2.33	0.48
3:P:644:ALA:HB2	3:P:702:PRO:O	2.14	0.48
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.48
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.48
5:G:378:SER:CA	5:G:378:SER:O	2.51	0.48
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.48
7:J:1175:GLY:HA3	7:J:1197:GLN:N	2.23	0.48
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.48
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.48
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
2:O:589:ASN:C	1:W:850:ALA:N	2.49	0.48
2:O:591:GLY:HA2	1:W:853:ASP:CB	2.44	0.48
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.48
4:F:490:LEU:O	4:F:493:HIS:N	2.43	0.48
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.48
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
7:V:1157:SER:CB	7:V:1222:SER:CB	2.92	0.48
7:V:1175:GLY:HA3	7:V:1197:GLN:N	2.23	0.48
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.48
1:E:852:VAL:CB	2:O:304:PRO:CA	2.89	0.48
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.48
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.48
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.48
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.48
7:V:1465:GLU:O	7:V:1474:MET:N	2.47	0.48
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.48
7:J:1157:SER:CB	7:J:1222:SER:CB	2.92	0.48
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
3:D:644:ALA:HB2	3:D:702:PRO:O	2.14	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.47
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.47
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.47
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.47
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:681:ALA:HB3	1:K:850:ALA:HB2	1.96	0.47
4:L:197:LYS:CB	4:L:201:GLU:CB	2.92	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.45	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.14	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.47
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.47
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.47
7:V:829:PRO:C	7:V:832:ASN:H	2.22	0.47
4:X:490:LEU:O	4:X:493:HIS:N	2.43	0.47
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.47
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.47
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.47
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.47
4:R:197:LYS:CB	4:R:201:GLU:CB	2.92	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
7:V:1460:SER:C	7:V:1463:MET:H	2.22	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.47
7:J:1386:LYS:CB	7:J:1388:LEU:HA	2.45	0.47
7:J:1465:GLU:O	7:J:1474:MET:N	2.47	0.47
4:L:198:LYS:C	4:L:200:THR:N	2.58	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.47
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.47
4:R:211:GLU:HA	4:R:214:HIS:CB	2.45	0.47
6:T:406:LEU:C	6:T:408:SER:N	2.61	0.47
2:C:487:CYS:CA	3:D:1661:ARG:CB	2.87	0.47
1:E:852:VAL:CB	2:O:305:LEU:H	2.25	0.47
4:F:197:LYS:CB	4:F:201:GLU:CB	2.92	0.47
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
4:L:140:LYS:HA	4:L:149:GLY:CA	2.45	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.47
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.47
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
7:V:1386:LYS:CB	7:V:1388:LEU:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.63	0.47
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.47
6:H:477:ILE:O	6:H:480:ALA:HB3	2.15	0.47
4:R:200:THR:C	4:R:202:ILE:N	2.70	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.63	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.47
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.14	0.47
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.47
2:C:681:ALA:HB3	1:K:850:ALA:CA	2.45	0.47
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.47
5:G:340:ALA:O	5:G:341:ALA:CB	2.63	0.47
4:L:490:LEU:O	4:L:493:HIS:N	2.43	0.47
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.44	0.47
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.47
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.46
7:J:829:PRO:C	7:J:832:ASN:H	2.22	0.46
7:J:1373:SER:CB	7:J:1426:HIS:CB	2.93	0.46
7:V:581:SER:C	7:V:583:ALA:H	2.23	0.46
4:X:200:THR:C	4:X:202:ILE:N	2.70	0.46
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.46
2:C:724:GLN:C	2:C:726:SER:H	2.23	0.46
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.46
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
4:X:197:LYS:CB	4:X:201:GLU:CB	2.92	0.46
4:X:211:GLU:HA	4:X:214:HIS:CB	2.45	0.46
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.46
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.46
7:J:1460:SER:C	7:J:1463:MET:H	2.22	0.46
4:L:211:GLU:HA	4:L:214:HIS:CB	2.46	0.46
2:O:724:GLN:C	2:O:726:SER:H	2.22	0.46
4:R:490:LEU:O	4:R:493:HIS:N	2.43	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.22	0.46
4:X:140:LYS:HA	4:X:149:GLY:CA	2.44	0.46
2:C:535:TYR:CB	3:D:1662:CYS:O	2.63	0.46
2:C:679:ILE:C	1:K:850:ALA:O	2.59	0.46
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.46
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.46
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:318:GLU:C	5:M:320:LYS:N	2.71	0.46
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.46
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.46
7:V:1437:VAL:O	7:V:1487:ALA:HB1	2.15	0.46
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.46
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.46
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
4:F:328:VAL:C	4:F:328:VAL:N	2.68	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.73	0.46
7:J:581:SER:C	7:J:583:ALA:H	2.23	0.46
2:C:15:GLN:CA	2:C:16:LEU:N	2.71	0.46
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.46
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
7:J:469:ASP:O	7:J:537:SER:HA	2.16	0.46
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.46
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.46
7:V:469:ASP:O	7:V:537:SER:HA	2.16	0.46
7:V:1373:SER:CB	7:V:1426:HIS:CB	2.93	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.46
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
6:H:406:LEU:C	6:H:408:SER:N	2.61	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.46
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.46
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.46
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.46
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.46
7:V:551:HIS:C	7:V:553:VAL:H	2.24	0.46
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.46
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.46
4:F:211:GLU:HA	4:F:214:HIS:CB	2.45	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
2:O:15:GLN:CA	2:O:16:LEU:N	2.71	0.46
3:P:254:GLU:C	3:P:256:VAL:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.46
6:Z:406:LEU:C	6:Z:408:SER:N	2.62	0.46
3:D:254:GLU:C	3:D:256:VAL:H	2.24	0.45
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.45
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.45
6:N:477:ILE:O	6:N:480:ALA:HB3	2.15	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.16	0.45
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.45
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.45
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.45
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.45
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.45
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.45
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.45
7:J:551:HIS:C	7:J:553:VAL:H	2.24	0.45
4:L:200:THR:C	4:L:202:ILE:N	2.70	0.45
2:C:307:GLY:N	1:Q:849:ASN:CB	2.79	0.45
4:F:198:LYS:C	4:F:200:THR:N	2.58	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.45
5:M:342:PRO:O	5:M:344:ASP:N	2.50	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.49	0.45
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.45
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
2:O:655:ALA:O	3:P:1447:THR:CB	2.64	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.45
4:R:405:ALA:HB3	4:R:406:ASP:H	1.17	0.45
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.45
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
4:F:200:THR:C	4:F:202:ILE:N	2.70	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
7:J:1437:VAL:O	7:J:1487:ALA:HB1	2.15	0.45
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.45
3:P:1491:ILE:C	3:P:1493:ARG:N	2.72	0.45
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
1:B:404:LYS:HA	1:B:405:PRO:HA	1.70	0.45
2:C:524:ARG:CA	3:D:1610:PRO:HA	2.47	0.45
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
2:O:653:ILE:CB	3:P:1456:GLU:CB	2.95	0.45
7:V:846:ALA:CB	7:V:852:ILE:CB	2.95	0.45
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.45
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.45
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.45
1:E:1164:GLN:CA	1:K:726:GLN:CB	2.94	0.45
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.45
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.45
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
5:Y:318:GLU:C	5:Y:320:LYS:N	2.71	0.45
2:C:675:ARG:CB	1:K:848:ASP:CB	2.83	0.45
5:G:342:PRO:O	5:G:344:ASP:N	2.49	0.45
7:J:1329:ASN:CB	7:J:1389:ASP:N	2.80	0.45
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.45
7:V:1329:ASN:CB	7:V:1389:ASP:N	2.80	0.45
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.45
7:J:250:ASN:H	7:J:253:LEU:HA	1.82	0.44
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.44
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.44
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.44
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.44
7:J:811:ILE:CB	7:J:866:ALA:HB1	2.47	0.44
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.44
4:X:222:THR:CB	4:X:222:THR:O	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.44
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.44
2:C:678:GLY:CA	1:K:847:ARG:CB	2.83	0.44
7:J:846:ALA:CB	7:J:852:ILE:CB	2.95	0.44
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.44
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.44
6:T:374:SER:CB	6:T:374:SER:H	2.26	0.44
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.44
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.44
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.44
4:R:198:LYS:C	4:R:200:THR:N	2.58	0.44
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.44
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.44
1:A:404:LYS:HA	1:A:405:PRO:HA	1.70	0.44
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.44
4:F:405:ALA:HB3	4:F:406:ASP:H	1.17	0.44
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.44
7:J:1373:SER:CB	7:J:1426:HIS:CA	2.96	0.44
7:V:811:ILE:CB	7:V:866:ALA:HB1	2.47	0.44
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.44
2:C:531:LEU:C	3:D:1663:GLN:CB	2.80	0.44
2:C:806:ASP:C	2:C:808:ASN:H	2.25	0.44
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.44
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.44
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.44
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
5:Y:342:PRO:O	5:Y:344:ASP:N	2.49	0.44
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.44
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.44
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.76	0.44
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.44
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:222:THR:CB	4:L:222:THR:O	2.62	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.26	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.76	0.44
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.43
1:K:942:PRO:HA	1:K:943:GLN:HA	1.48	0.43
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.43
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
7:V:250:ASN:H	7:V:253:LEU:HA	1.82	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.43
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.43
7:V:94:GLN:C	7:V:96:TYR:N	2.76	0.43
7:V:858:TYR:CB	7:V:865:PRO:N	2.81	0.43
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.43
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.43
2:U:725:GLU:C	2:U:727:VAL:N	2.76	0.43
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.43
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.43
2:I:725:GLU:C	2:I:727:VAL:N	2.76	0.43
7:J:520:GLN:O	7:J:530:VAL:HA	2.18	0.43
7:V:520:GLN:O	7:V:530:VAL:HA	2.19	0.43
7:V:1373:SER:CB	7:V:1426:HIS:CA	2.96	0.43
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.43
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.43
7:J:1519:GLN:CB	7:J:1539:THR:N	2.81	0.43
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.43
3:P:1542:PRO:O	3:P:1544:PRO:N	2.52	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
4:R:222:THR:CB	4:R:222:THR:O	2.62	0.43
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.51	0.43
1:E:1170:SER:N	1:K:576:TYR:CB	2.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:404:LYS:HA	1:K:405:PRO:HA	1.70	0.43
7:V:1519:GLN:CB	7:V:1539:THR:N	2.81	0.43
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.43
4:F:222:THR:CB	4:F:222:THR:O	2.62	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
7:J:794:ALA:HB3	7:J:803:GLY:O	2.19	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.43
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.43
4:R:486:GLU:O	4:R:487:ASP:C	2.61	0.43
7:V:1175:GLY:CA	7:V:1196:GLN:HA	2.49	0.43
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.43
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.43
3:D:644:ALA:HB1	3:D:706:ALA:HB2	2.01	0.43
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.43
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.43
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.43
1:E:1170:SER:CB	1:K:576:TYR:CB	2.96	0.43
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.43
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.43
3:P:1506:VAL:O	3:P:1508:LYS:N	2.47	0.43
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.43
1:W:441:PHE:C	1:W:443:LYS:N	2.76	0.43
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.42
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.42
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.42
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.42
7:V:794:ALA:HB3	7:V:803:GLY:O	2.19	0.42
3:D:644:ALA:CB	3:D:706:ALA:HB2	2.49	0.42
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.42
7:V:1385:ARG:O	7:V:1390:ALA:HB3	2.18	0.42
4:X:492:GLU:C	4:X:492:GLU:N	2.66	0.42
4:F:422:ASN:CB	4:F:423:ALA:CB	2.94	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
7:V:1176:SER:H	7:V:1196:GLN:C	2.27	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
4:X:492:GLU:CA	4:X:492:GLU:O	2.53	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
7:J:844:HIS:O	7:J:848:GLY:HA2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:J:1176:SER:H	7:J:1196:GLN:C	2.27	0.42
7:J:1385:ARG:O	7:J:1390:ALA:HB3	2.19	0.42
3:P:644:ALA:HB1	3:P:706:ALA:HB2	2.01	0.42
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.42
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.42
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.42
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.42
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.42
3:P:644:ALA:CB	3:P:706:ALA:HB2	2.49	0.42
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.42
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.42
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.42
4:R:459:LEU:CA	4:R:460:LEU:N	2.54	0.42
4:R:489:LYS:O	4:R:492:GLU:CB	2.68	0.42
7:V:844:HIS:O	7:V:848:GLY:HA2	2.19	0.42
1:B:326:ALA:CB	1:B:387:LEU:CB	2.95	0.42
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.42
7:J:858:TYR:CB	7:J:865:PRO:N	2.81	0.42
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.42
2:C:481:ARG:HA	3:D:1593:GLU:CB	2.50	0.42
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.42
1:E:404:LYS:HA	1:E:405:PRO:HA	1.70	0.42
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.42
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.42
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
7:V:1467:HIS:CB	7:V:1474:MET:C	2.93	0.42
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
4:X:328:VAL:C	4:X:328:VAL:N	2.68	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
2:O:784:GLN:CB	1:W:131:GLY:O	2.68	0.42
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
2:C:487:CYS:N	3:D:1661:ARG:CB	2.77	0.42
3:D:340:ILE:C	3:D:342:GLN:H	2.28	0.42
3:D:658:GLU:C	3:D:660:ALA:H	2.28	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.42
7:J:1175:GLY:CA	7:J:1196:GLN:HA	2.49	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
3:P:658:GLU:C	3:P:660:ALA:H	2.28	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
7:J:1467:HIS:CB	7:J:1474:MET:C	2.93	0.42
3:P:1511:GLN:O	3:P:1512:TRP:C	2.57	0.42
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.42
2:U:279:HIS:HA	2:U:283:LEU:HA	2.02	0.42
7:V:859:ILE:H	7:V:865:PRO:CA	2.33	0.42
7:V:1175:GLY:CA	7:V:1197:GLN:N	2.82	0.42
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.42
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.41
5:G:379:HIS:N	5:G:379:HIS:CB	2.72	0.41
7:J:1466:TRP:CB	7:J:1473:LEU:C	2.93	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
3:P:1537:GLN:C	3:P:1539:LEU:H	2.28	0.41
7:V:1386:LYS:C	7:V:1388:LEU:N	2.78	0.41
7:V:1465:GLU:O	7:V:1475:ARG:N	2.51	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.02	0.41
7:J:1246:PHE:CB	7:J:1275:HIS:N	2.83	0.41
4:L:148:TRP:C	4:L:150:THR:N	2.74	0.41
6:N:361:TRP:C	6:N:363:ARG:N	2.75	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
4:R:255:ARG:O	4:R:292:GLN:CB	2.69	0.41
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.41
3:D:1511:GLN:O	3:D:1512:TRP:C	2.57	0.41
5:G:366:GLU:CB	5:G:367:LEU:N	2.81	0.41
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.41
3:P:340:ILE:C	3:P:342:GLN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1489:HIS:CB	3:P:1492:GLY:N	2.81	0.41
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.41
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.41
1:E:848:ASP:C	2:O:305:LEU:O	2.63	0.41
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.41
7:J:846:ALA:C	7:J:852:ILE:CB	2.94	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.41
3:P:1472:SER:C	3:P:1474:GLY:N	2.75	0.41
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.41
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.41
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.41
4:R:422:ASN:CB	4:R:423:ALA:CB	2.94	0.41
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.41
1:B:376:ARG:C	1:B:380:ALA:CA	2.94	0.41
2:C:303:ALA:C	1:Q:849:ASN:H	2.25	0.41
1:E:1165:TYR:N	1:K:726:GLN:C	2.75	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
7:J:187:THR:C	7:J:189:GLU:H	2.29	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
6:N:408:SER:C	6:N:410:LEU:H	2.28	0.41
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.41
7:V:1246:PHE:CB	7:V:1275:HIS:N	2.83	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
1:A:326:ALA:CB	1:A:387:LEU:CB	2.95	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
2:C:303:ALA:CB	1:Q:848:ASP:C	2.71	0.41
3:D:1546:LEU:O	3:D:1547:LEU:C	2.48	0.41
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.41
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.41
7:V:331:HIS:C	7:V:334:ASN:H	2.29	0.41
7:V:1462:PHE:O	7:V:1465:GLU:CB	2.69	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.41
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
7:J:859:ILE:H	7:J:865:PRO:CA	2.33	0.41
7:J:1387:SER:C	7:J:1389:ASP:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.41
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.41
7:V:542:PHE:C	7:V:544:CYS:H	2.29	0.41
7:V:1466:TRP:CB	7:V:1473:LEU:C	2.93	0.41
4:X:453:TYR:O	4:X:455:ILE:N	2.54	0.41
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.41
2:C:531:LEU:C	3:D:1664:ASP:HA	2.46	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
7:J:331:HIS:C	7:J:334:ASN:H	2.29	0.41
7:J:1462:PHE:O	7:J:1465:GLU:CB	2.69	0.41
7:J:1463:MET:C	7:J:1465:GLU:N	2.77	0.41
3:P:1563:VAL:O	3:P:1569:GLY:HA3	2.21	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
7:V:1463:MET:C	7:V:1465:GLU:N	2.76	0.41
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
2:C:535:TYR:N	3:D:1663:GLN:HA	2.31	0.41
3:D:1472:SER:C	3:D:1474:GLY:N	2.75	0.41
3:D:1506:VAL:O	3:D:1508:LYS:N	2.47	0.41
3:D:1537:GLN:C	3:D:1539:LEU:H	2.28	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
7:J:860:TYR:CB	7:J:868:PRO:N	2.84	0.41
4:L:453:TYR:O	4:L:455:ILE:N	2.54	0.41
5:M:344:ASP:O	5:M:348:ILE:N	2.54	0.41
6:N:360:ALA:O	6:N:363:ARG:CB	2.69	0.41
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.41
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.70	0.41
1:Q:1352:LEU:C	1:Q:1354:LEU:N	2.79	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
5:S:339:TYR:C	5:S:340:ALA:C	2.51	0.41
5:S:366:GLU:CB	5:S:367:LEU:N	2.81	0.41
6:T:490:GLN:CB	6:T:490:GLN:O	2.66	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
6:Z:408:SER:C	6:Z:410:LEU:H	2.28	0.41
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:421:LEU:O	4:F:422:ASN:C	2.63	0.41
7:J:318:HIS:C	7:J:320:ALA:H	2.29	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.41
1:Q:350:ASN:HA	1:Q:353:SER:O	2.21	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.38	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
5:Y:344:ASP:O	5:Y:348:ILE:N	2.54	0.41
3:D:1492:GLY:O	3:D:1495:LEU:N	2.53	0.40
1:E:852:VAL:HA	2:O:305:LEU:CB	2.51	0.40
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.40
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.40
6:H:404:GLU:O	6:H:405:ASP:C	2.64	0.40
7:J:1386:LYS:C	7:J:1388:LEU:N	2.78	0.40
4:L:449:SER:C	4:L:451:GLU:N	2.79	0.40
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.40
7:V:187:THR:C	7:V:189:GLU:H	2.29	0.40
7:V:846:ALA:C	7:V:852:ILE:CB	2.94	0.40
5:Y:379:HIS:N	5:Y:379:HIS:CB	2.72	0.40
6:Z:360:ALA:O	6:Z:363:ARG:CB	2.69	0.40
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.40
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.40
4:F:450:GLU:O	4:F:451:GLU:CA	2.33	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
7:J:542:PHE:C	7:J:544:CYS:H	2.29	0.40
1:K:1352:LEU:C	1:K:1354:LEU:N	2.79	0.40
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.40
3:P:744:PHE:C	3:P:746:ARG:N	2.79	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
7:V:860:TYR:CB	7:V:868:PRO:N	2.84	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:E:542:HIS:O	1:E:543:GLN:CB	2.69	0.40
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.40
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.87	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.95	0.40
2:C:307:GLY:H	1:Q:849:ASN:CB	2.35	0.40
1:E:340:LYS:C	1:E:342:ILE:N	2.80	0.40
1:E:849:ASN:H	2:O:303:ALA:HA	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
7:J:155:ARG:CB	7:J:158:TYR:CB	3.00	0.40
7:J:159:ALA:O	7:J:160:ASP:C	2.64	0.40
7:J:1467:HIS:CB	7:J:1475:ARG:CA	2.96	0.40
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.40
2:C:447:ASP:C	2:C:448:TYR:CA	2.94	0.40
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.40
7:J:1175:GLY:CA	7:J:1197:GLN:N	2.82	0.40
4:L:140:LYS:O	4:L:149:GLY:CA	2.70	0.40
6:N:383:LYS:C	6:N:385:ASP:N	2.75	0.40
1:Q:340:LYS:C	1:Q:342:ILE:N	2.80	0.40
4:R:421:LEU:O	4:R:422:ASN:C	2.63	0.40
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran 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 backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	612/1391 (44%)	562 (92%)	38 (6%)	12 (2%)	6	31
1	B	612/1391 (44%)	562 (92%)	38 (6%)	12 (2%)	6	31
1	E	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	K	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	Q	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	W	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
2	C	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	I	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	U	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
3	D	972/2012 (48%)	899 (92%)	59 (6%)	14 (1%)	9	40
3	P	972/2012 (48%)	899 (92%)	59 (6%)	14 (1%)	9	40
4	F	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	L	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	R	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	X	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
5	G	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	S	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
6	H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
7	J	1232/1749 (70%)	1111 (90%)	75 (6%)	46 (4%)	2	20
7	V	1232/1749 (70%)	1111 (90%)	75 (6%)	46 (4%)	2	20
All	All	14872/25656 (58%)	13360 (90%)	970 (6%)	542 (4%)	4	20

All (542) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	332	ARG
1	A	443	LYS
1	A	543	GLN
1	A	802	GLN
1	B	332	ARG
1	B	443	LYS
1	B	543	GLN
1	B	802	GLN
2	C	24	SER
2	C	252	MET
2	C	278	LEU

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Mol	Chain	Res	Type
2	C	301	LEU
2	C	382	ASN
2	C	383	THR
2	C	587	LEU
2	C	592	SER
2	C	603	SER
2	C	623	GLU
2	C	652	GLN
2	C	655	ALA
2	C	656	PRO
2	C	661	GLU
2	C	662	ARG
2	C	723	ASN
2	C	764	LYS
3	D	453	ASN
3	D	1451	ARG
3	D	1637	GLN
3	D	1662	CYS
3	D	1664	ASP
1	E	332	ARG
1	E	443	LYS
1	E	543	GLN
1	E	802	GLN
1	E	1320	PRO
1	E	1343	ASN
1	E	1351	ASN
1	E	1369	SER
4	F	148	TRP
4	F	222	THR
4	F	318	ASP
4	F	403	ILE
4	F	405	ALA
4	F	451	GLU
4	F	453	TYR
4	F	454	TYR
4	F	458	ASP
4	F	464	LYS
5	G	276	SER
5	G	327	ARG
5	G	335	LEU
6	H	426	ALA
6	H	466	ASP

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Mol	Chain	Res	Type
2	I	24	SER
2	I	252	MET
2	I	278	LEU
2	I	301	LEU
2	I	382	ASN
2	I	383	THR
2	I	587	LEU
2	I	592	SER
2	I	603	SER
2	I	623	GLU
2	I	652	GLN
2	I	655	ALA
2	I	656	PRO
2	I	661	GLU
2	I	662	ARG
2	I	723	ASN
2	I	764	LYS
7	J	30	SER
7	J	113	GLN
7	J	160	ASP
7	J	254	VAL
7	J	288	ASP
7	J	397	LEU
7	J	481	LYS
7	J	559	ILE
7	J	581	SER
7	J	660	ALA
7	J	755	SER
7	J	835	SER
7	J	883	PRO
7	J	1299	ASP
7	J	1388	LEU
7	J	1479	VAL
1	K	332	ARG
1	K	443	LYS
1	K	543	GLN
1	K	802	GLN
1	K	1320	PRO
1	K	1343	ASN
1	K	1351	ASN
1	K	1369	SER
4	L	148	TRP

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Mol	Chain	Res	Type
4	L	222	THR
4	L	318	ASP
4	L	403	ILE
4	L	405	ALA
4	L	451	GLU
4	L	453	TYR
4	L	454	TYR
4	L	458	ASP
4	L	464	LYS
5	M	276	SER
5	M	327	ARG
5	M	335	LEU
6	N	426	ALA
6	N	466	ASP
2	O	24	SER
2	O	252	MET
2	O	278	LEU
2	O	301	LEU
2	O	382	ASN
2	O	383	THR
2	O	587	LEU
2	O	592	SER
2	O	603	SER
2	O	623	GLU
2	O	652	GLN
2	O	655	ALA
2	O	656	PRO
2	O	661	GLU
2	O	662	ARG
2	O	723	ASN
2	O	764	LYS
3	P	453	ASN
3	P	1451	ARG
3	P	1637	GLN
3	P	1662	CYS
3	P	1664	ASP
1	Q	332	ARG
1	Q	443	LYS
1	Q	543	GLN
1	Q	802	GLN
1	Q	1320	PRO
1	Q	1343	ASN

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Mol	Chain	Res	Type
1	Q	1351	ASN
1	Q	1369	SER
4	R	148	TRP
4	R	222	THR
4	R	318	ASP
4	R	403	ILE
4	R	405	ALA
4	R	451	GLU
4	R	453	TYR
4	R	454	TYR
4	R	458	ASP
4	R	464	LYS
5	S	276	SER
5	S	327	ARG
5	S	335	LEU
6	T	426	ALA
6	T	466	ASP
2	U	24	SER
2	U	252	MET
2	U	278	LEU
2	U	301	LEU
2	U	382	ASN
2	U	383	THR
2	U	587	LEU
2	U	592	SER
2	U	603	SER
2	U	623	GLU
2	U	652	GLN
2	U	655	ALA
2	U	656	PRO
2	U	661	GLU
2	U	662	ARG
2	U	723	ASN
2	U	764	LYS
7	V	30	SER
7	V	113	GLN
7	V	160	ASP
7	V	254	VAL
7	V	288	ASP
7	V	397	LEU
7	V	481	LYS
7	V	559	ILE

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Mol	Chain	Res	Type
7	V	581	SER
7	V	660	ALA
7	V	755	SER
7	V	835	SER
7	V	883	PRO
7	V	1299	ASP
7	V	1388	LEU
7	V	1479	VAL
1	W	332	ARG
1	W	443	LYS
1	W	543	GLN
1	W	802	GLN
1	W	1320	PRO
1	W	1343	ASN
1	W	1351	ASN
1	W	1369	SER
4	X	148	TRP
4	X	222	THR
4	X	318	ASP
4	X	403	ILE
4	X	405	ALA
4	X	451	GLU
4	X	453	TYR
4	X	454	TYR
4	X	458	ASP
4	X	464	LYS
5	Y	276	SER
5	Y	327	ARG
5	Y	335	LEU
6	Z	426	ALA
6	Z	466	ASP
1	A	260	SER
1	A	312	MET
1	A	415	LYS
1	B	260	SER
1	B	312	MET
1	B	415	LYS
2	C	23	ILE
2	C	179	ASP
2	C	215	LEU
2	C	219	SER
2	C	354	GLU

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Mol	Chain	Res	Type
2	C	368	GLU
2	C	402	ASN
2	C	404	SER
2	C	559	ASP
2	C	602	THR
2	C	649	VAL
2	C	679	ILE
2	C	726	SER
2	C	754	ASN
3	D	39	LEU
3	D	881	GLN
1	E	260	SER
1	E	312	MET
1	E	415	LYS
1	E	961	GLY
1	E	1235	LEU
1	E	1346	ARG
4	F	204	SER
4	F	221	GLN
4	F	301	PRO
4	F	461	ARG
4	F	492	GLU
5	G	326	LEU
5	G	378	SER
6	H	411	GLU
6	H	494	LEU
2	I	23	ILE
2	I	179	ASP
2	I	215	LEU
2	I	219	SER
2	I	354	GLU
2	I	368	GLU
2	I	402	ASN
2	I	404	SER
2	I	559	ASP
2	I	602	THR
2	I	649	VAL
2	I	679	ILE
2	I	726	SER
2	I	754	ASN
7	J	157	GLU
7	J	367	SER

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Mol	Chain	Res	Type
7	J	506	GLY
7	J	552	VAL
7	J	834	VAL
7	J	845	GLY
7	J	1245	LEU
7	J	1312	ILE
7	J	1323	SER
7	J	1519	GLN
1	K	260	SER
1	K	312	MET
1	K	415	LYS
1	K	961	GLY
1	K	1235	LEU
1	K	1346	ARG
4	L	204	SER
4	L	221	GLN
4	L	301	PRO
4	L	461	ARG
4	L	492	GLU
5	M	326	LEU
5	M	378	SER
6	N	411	GLU
6	N	494	LEU
2	O	23	ILE
2	O	179	ASP
2	O	215	LEU
2	O	219	SER
2	O	354	GLU
2	O	368	GLU
2	O	402	ASN
2	O	404	SER
2	O	559	ASP
2	O	602	THR
2	O	649	VAL
2	O	679	ILE
2	O	726	SER
2	O	754	ASN
3	P	39	LEU
3	P	881	GLN
1	Q	260	SER
1	Q	312	MET
1	Q	415	LYS

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Mol	Chain	Res	Type
1	Q	961	GLY
1	Q	1235	LEU
1	Q	1346	ARG
4	R	204	SER
4	R	221	GLN
4	R	301	PRO
4	R	461	ARG
4	R	492	GLU
5	S	326	LEU
5	S	378	SER
6	T	411	GLU
6	T	494	LEU
2	U	23	ILE
2	U	179	ASP
2	U	215	LEU
2	U	219	SER
2	U	354	GLU
2	U	368	GLU
2	U	402	ASN
2	U	404	SER
2	U	559	ASP
2	U	602	THR
2	U	649	VAL
2	U	679	ILE
2	U	726	SER
2	U	754	ASN
7	V	157	GLU
7	V	367	SER
7	V	506	GLY
7	V	552	VAL
7	V	834	VAL
7	V	845	GLY
7	V	1245	LEU
7	V	1312	ILE
7	V	1323	SER
7	V	1519	GLN
1	W	260	SER
1	W	312	MET
1	W	415	LYS
1	W	961	GLY
1	W	1235	LEU
1	W	1346	ARG

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Mol	Chain	Res	Type
4	X	204	SER
4	X	221	GLN
4	X	301	PRO
4	X	461	ARG
4	X	492	GLU
5	Y	326	LEU
5	Y	378	SER
6	Z	411	GLU
6	Z	494	LEU
1	A	204	PRO
1	B	204	PRO
2	C	308	LEU
2	C	482	MET
2	C	734	PHE
3	D	437	ARG
1	E	204	PRO
1	E	1365	GLN
4	F	299	ASN
6	H	465	ALA
2	I	308	LEU
2	I	482	MET
2	I	734	PHE
7	J	425	PRO
7	J	697	SER
7	J	1220	LYS
7	J	1328	GLN
7	J	1373	SER
7	J	1377	THR
7	J	1466	TRP
1	K	204	PRO
1	K	1365	GLN
4	L	299	ASN
6	N	465	ALA
2	O	308	LEU
2	O	482	MET
2	O	734	PHE
3	P	437	ARG
1	Q	204	PRO
1	Q	1365	GLN
4	R	299	ASN
6	T	465	ALA
2	U	308	LEU

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Mol	Chain	Res	Type
2	U	482	MET
2	U	734	PHE
7	V	425	PRO
7	V	697	SER
7	V	1220	LYS
7	V	1328	GLN
7	V	1373	SER
7	V	1377	THR
7	V	1466	TRP
1	W	204	PRO
1	W	1365	GLN
4	X	299	ASN
6	Z	465	ALA
1	A	40	TYR
1	B	40	TYR
2	C	446	GLU
2	C	561	GLN
3	D	637	SER
3	D	1450	GLU
1	E	40	TYR
4	F	206	GLN
4	F	234	PRO
4	F	450	GLU
4	F	459	LEU
2	I	446	GLU
2	I	561	GLN
7	J	414	PRO
7	J	420	PHE
7	J	640	PRO
7	J	1325	ARG
7	J	1542	SER
1	K	40	TYR
4	L	206	GLN
4	L	234	PRO
4	L	450	GLU
4	L	459	LEU
2	O	446	GLU
2	O	561	GLN
3	P	637	SER
3	P	1450	GLU
1	Q	40	TYR
4	R	206	GLN

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Mol	Chain	Res	Type
4	R	234	PRO
4	R	450	GLU
4	R	459	LEU
2	U	446	GLU
2	U	561	GLN
7	V	414	PRO
7	V	420	PHE
7	V	640	PRO
7	V	1325	ARG
7	V	1542	SER
1	W	40	TYR
4	X	234	PRO
4	X	450	GLU
4	X	459	LEU
6	Z	497	ARG
1	A	278	PRO
1	B	278	PRO
2	C	460	PHE
2	C	800	PRO
3	D	58	PRO
3	D	536	VAL
3	D	659	ILE
3	D	1519	SER
1	E	278	PRO
1	E	910	GLN
4	F	145	GLN
6	H	464	PRO
6	H	497	ARG
2	I	460	PHE
2	I	800	PRO
7	J	151	ARG
7	J	1437	VAL
1	K	278	PRO
1	K	910	GLN
6	N	464	PRO
6	N	497	ARG
2	O	460	PHE
2	O	800	PRO
3	P	58	PRO
3	P	536	VAL
3	P	659	ILE
3	P	1519	SER

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Mol	Chain	Res	Type
1	Q	278	PRO
1	Q	910	GLN
6	T	464	PRO
6	T	497	ARG
2	U	460	PHE
2	U	800	PRO
7	V	151	ARG
7	V	1437	VAL
1	W	278	PRO
1	W	910	GLN
4	X	206	GLN
6	Z	464	PRO
1	A	158	GLN
1	B	158	GLN
2	C	22	GLY
2	C	31	ARG
2	C	429	SER
1	E	158	GLN
5	G	377	ASN
2	I	22	GLY
2	I	31	ARG
2	I	429	SER
7	J	482	PRO
7	J	1176	SER
1	K	158	GLN
4	L	145	GLN
2	O	22	GLY
2	O	31	ARG
2	O	429	SER
1	Q	158	GLN
4	R	145	GLN
2	U	22	GLY
2	U	31	ARG
2	U	429	SER
7	V	482	PRO
7	V	1176	SER
1	W	158	GLN
4	X	145	GLN
2	C	430	SER
2	I	430	SER
2	O	430	SER
2	U	430	SER

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Mol	Chain	Res	Type
7	J	156	VAL
7	J	582	ILE
7	V	156	VAL
7	V	582	ILE
1	E	942	PRO
1	K	942	PRO
1	Q	942	PRO
1	W	942	PRO
1	A	76	PRO
1	B	76	PRO
2	C	276	GLY
1	E	76	PRO
2	I	276	GLY
7	J	368	GLY
7	J	1221	VAL
1	K	76	PRO
2	O	276	GLY
1	Q	76	PRO
2	U	276	GLY
7	V	368	GLY
7	V	1221	VAL
1	W	76	PRO
4	F	424	PRO
2	I	346	GLY
4	L	424	PRO
4	R	424	PRO
4	X	424	PRO

5.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
4	F	6
4	L	6
4	R	6
4	X	6
2	C	3
2	I	3
2	O	3
2	U	3
5	M	3
5	Y	3
5	G	3
5	S	3
6	H	3
6	N	3
6	T	3
6	Z	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	483:GLU	C	484:ARG	N	4.02
1	I	483:GLU	C	484:ARG	N	4.02
1	O	483:GLU	C	484:ARG	N	4.02
1	U	483:GLU	C	484:ARG	N	4.02
1	C	447:ASP	C	448:TYR	N	3.63

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	447:ASP	C	448:TYR	N	3.63
1	O	447:ASP	C	448:TYR	N	3.63
1	U	447:ASP	C	448:TYR	N	3.63
1	M	379:HIS	C	380:ILE	N	1.99
1	Y	379:HIS	C	380:ILE	N	1.99
1	G	379:HIS	C	380:ILE	N	1.98
1	S	379:HIS	C	380:ILE	N	1.98
1	F	458:ASP	C	459:LEU	N	1.82
1	L	458:ASP	C	459:LEU	N	1.82
1	R	458:ASP	C	459:LEU	N	1.82
1	X	458:ASP	C	459:LEU	N	1.82
1	G	339:TYR	C	340:ALA	N	1.72
1	M	339:TYR	C	340:ALA	N	1.72
1	S	339:TYR	C	340:ALA	N	1.72
1	Y	339:TYR	C	340:ALA	N	1.72
1	F	492:GLU	C	493:HIS	N	1.69
1	H	411:GLU	C	412:GLU	N	1.69
1	L	492:GLU	C	493:HIS	N	1.69
1	N	411:GLU	C	412:GLU	N	1.69
1	R	492:GLU	C	493:HIS	N	1.69
1	T	411:GLU	C	412:GLU	N	1.69
1	X	492:GLU	C	493:HIS	N	1.69
1	Z	411:GLU	C	412:GLU	N	1.69
1	F	454:TYR	C	455:ILE	N	1.64
1	L	454:TYR	C	455:ILE	N	1.64
1	R	454:TYR	C	455:ILE	N	1.64
1	X	454:TYR	C	455:ILE	N	1.63
1	F	221:GLN	C	222:THR	N	1.61
1	L	221:GLN	C	222:THR	N	1.61
1	R	221:GLN	C	222:THR	N	1.61
1	X	221:GLN	C	222:THR	N	1.61
1	G	378:SER	C	379:HIS	N	1.60
1	M	378:SER	C	379:HIS	N	1.60
1	S	378:SER	C	379:HIS	N	1.60
1	Y	378:SER	C	379:HIS	N	1.60
1	H	412:GLU	C	413:LEU	N	1.16
1	N	412:GLU	C	413:LEU	N	1.16
1	T	412:GLU	C	413:LEU	N	1.16
1	Z	412:GLU	C	413:LEU	N	1.16
1	C	7:GLY	C	8:GLU	N	1.14
1	I	7:GLY	C	8:GLU	N	1.14
1	O	7:GLY	C	8:GLU	N	1.14

Continued on next page...

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	U	7:GLY	C	8:GLU	N	1.14
1	H	408:SER	C	409:PRO	N	1.13
1	N	408:SER	C	409:PRO	N	1.13
1	T	408:SER	C	409:PRO	N	1.13
1	Z	408:SER	C	409:PRO	N	1.13
1	F	455:ILE	C	456:ASP	N	0.99
1	L	455:ILE	C	456:ASP	N	0.99
1	R	455:ILE	C	456:ASP	N	0.99
1	X	455:ILE	C	456:ASP	N	0.99
1	F	459:LEU	C	460:LEU	N	0.98
1	L	459:LEU	C	460:LEU	N	0.98
1	R	459:LEU	C	460:LEU	N	0.98
1	X	459:LEU	C	460:LEU	N	0.98

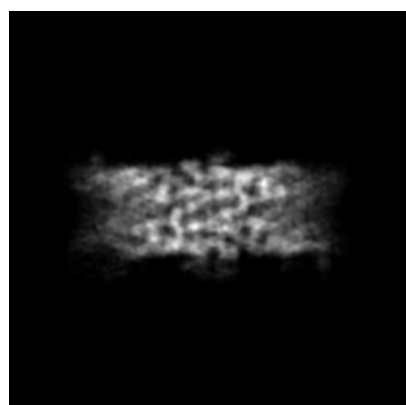
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8085. 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](#)

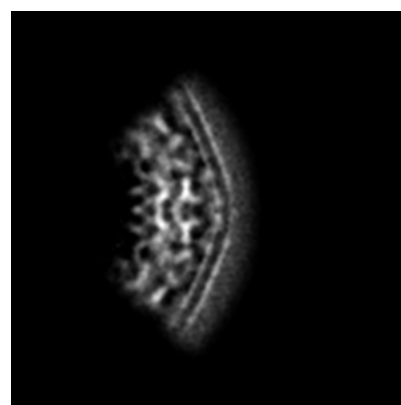
6.1.1 Primary map



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: 72



Y Index: 72

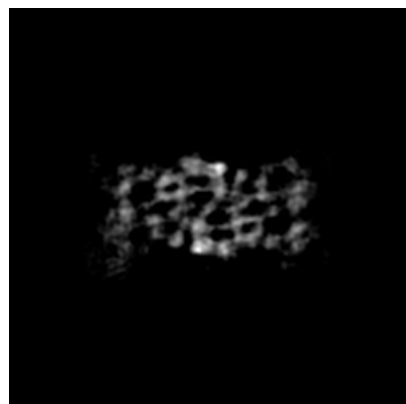


Z Index: 72

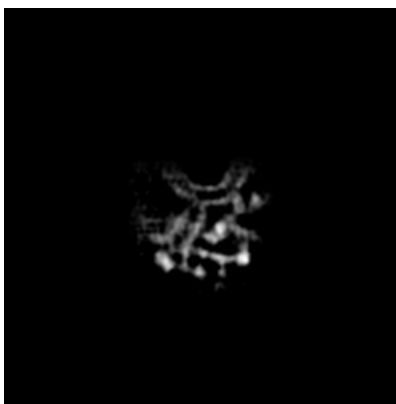
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 53



Y Index: 76

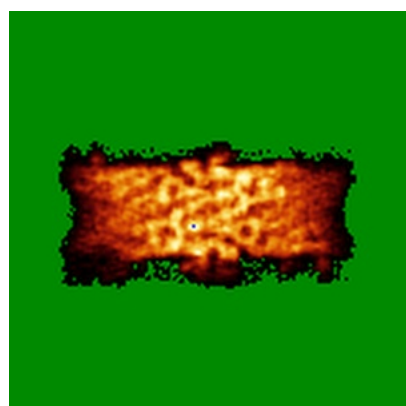


Z Index: 78

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

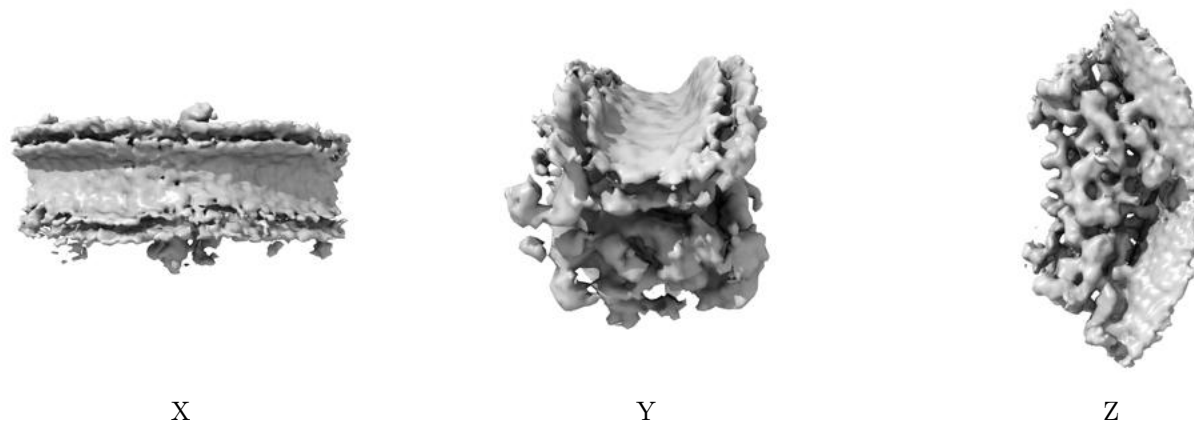


Z

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 36.6. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

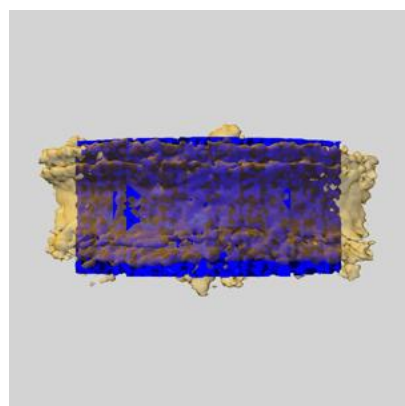
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

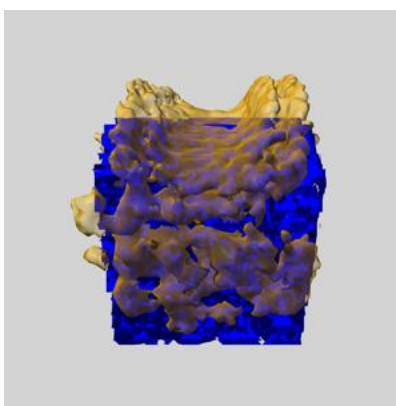
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

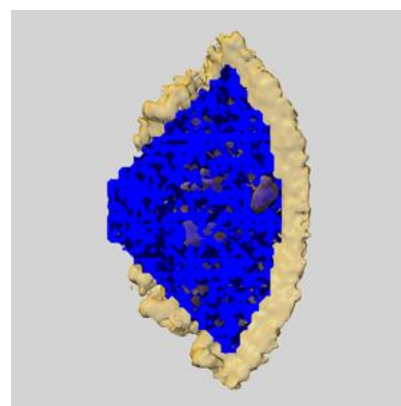
6.6.1 emd_8085_msk_1.map [i](#)



X



Y

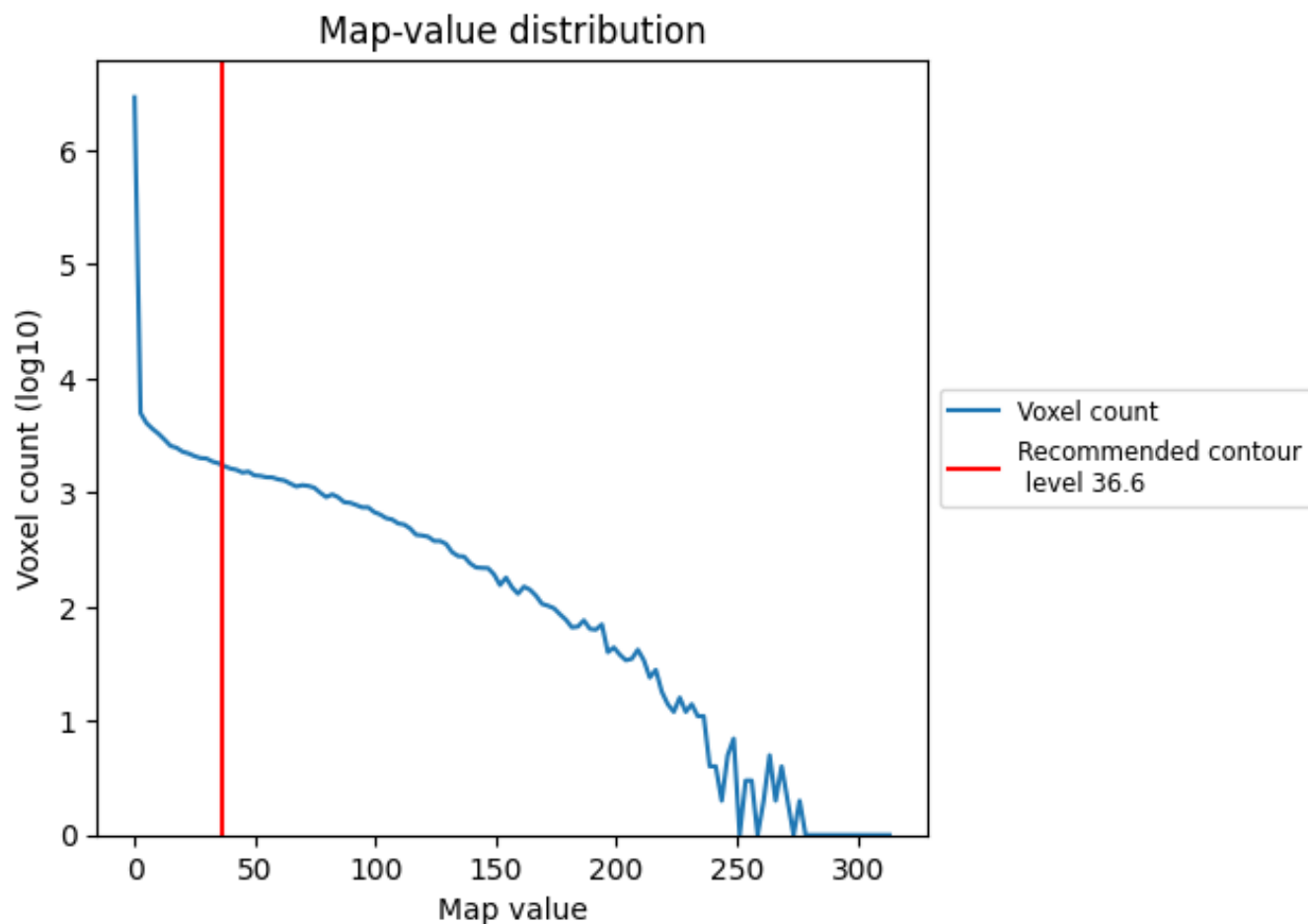


Z

7 Map analysis [i](#)

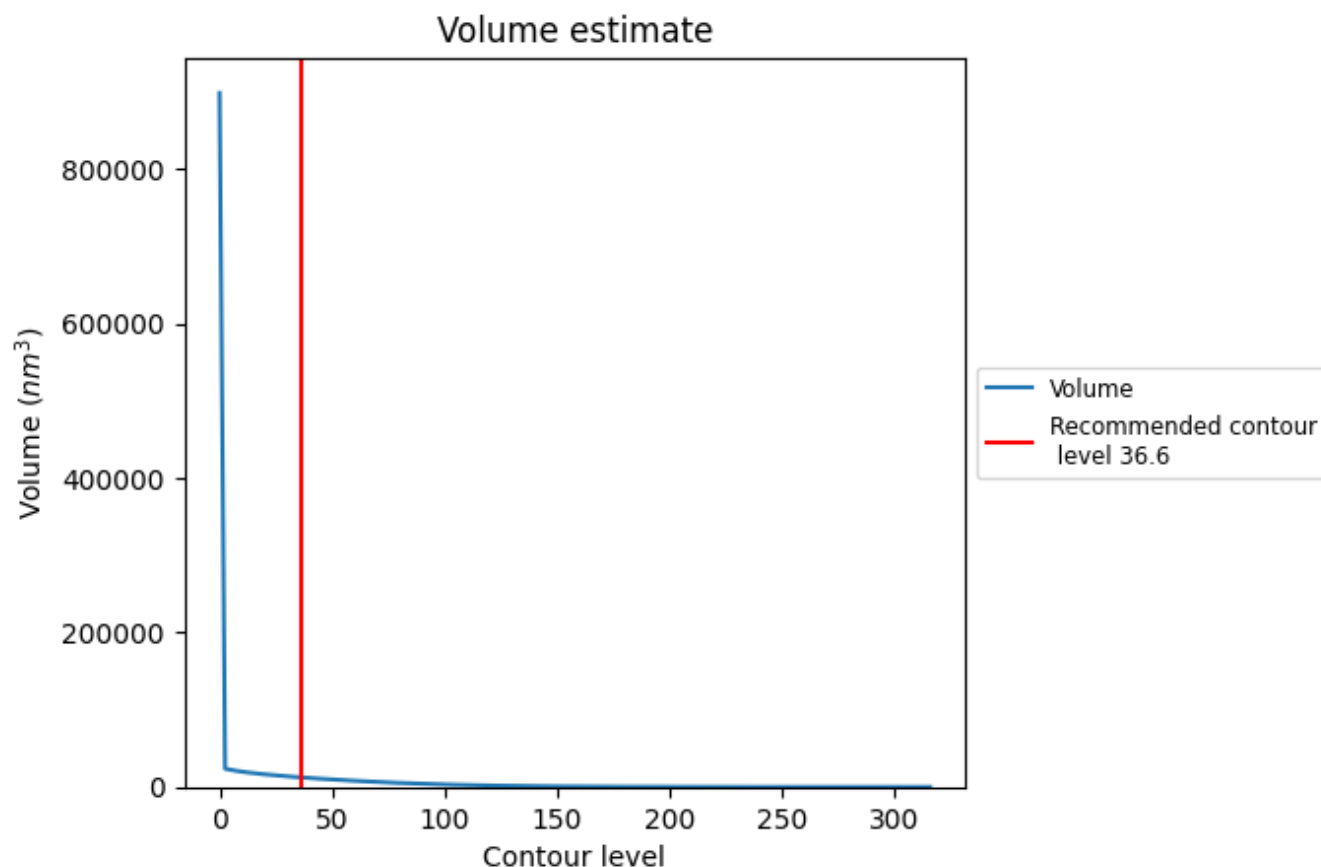
This section contains the results of statistical analysis of the map.

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.

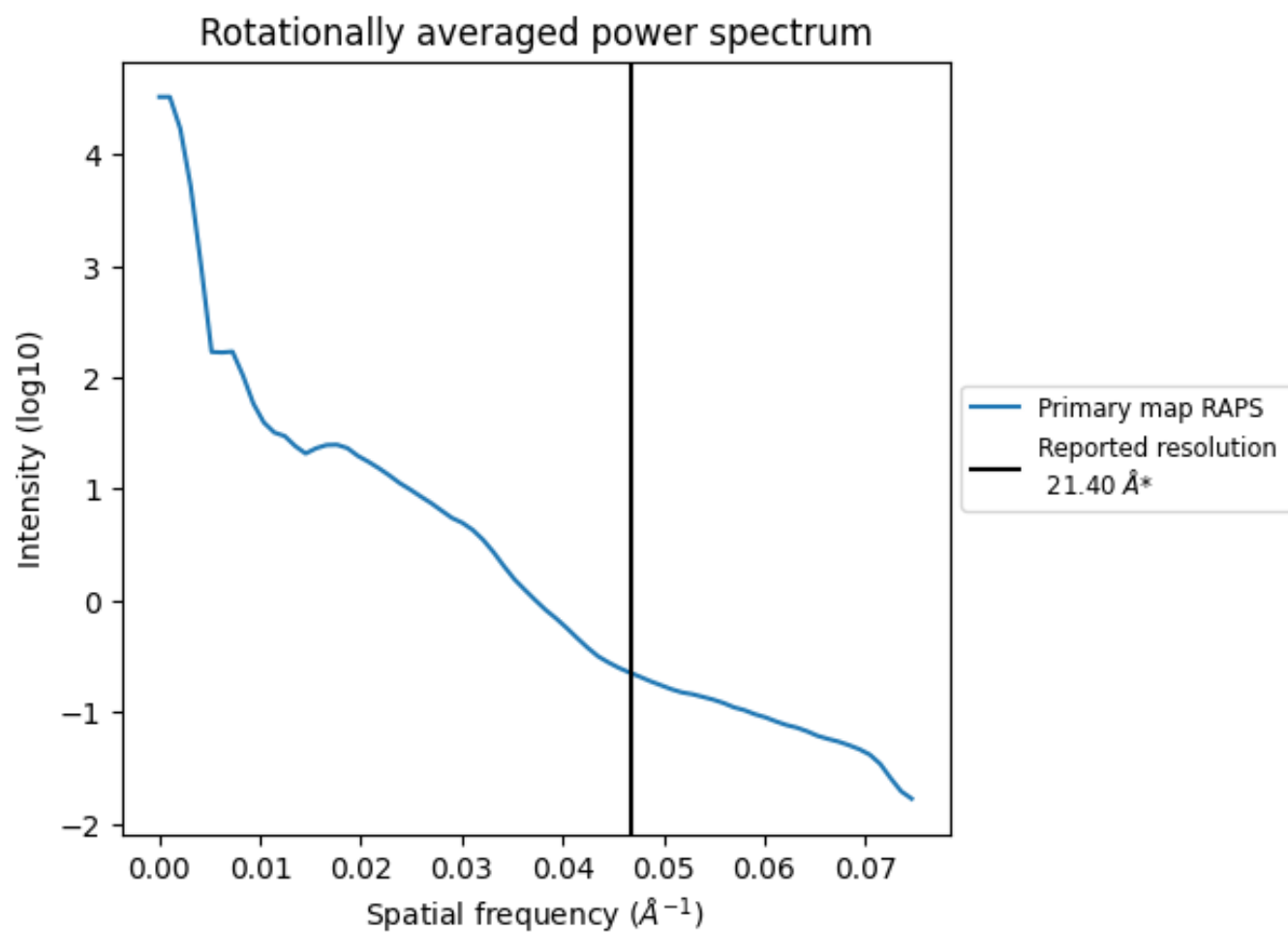
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 12255 nm^3 ; this corresponds to an approximate mass of 11070 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 0.047 Å⁻¹

8 Fourier-Shell correlation

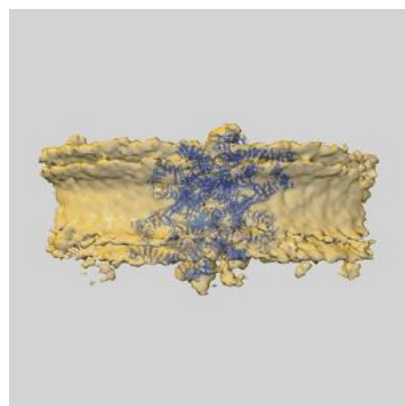
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

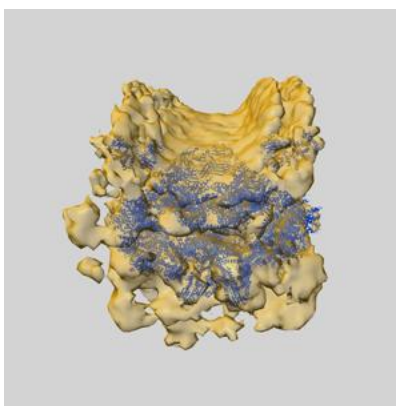
This section contains information regarding the fit between EMDB map EMD-8085 and PDB model 5IJO. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlays

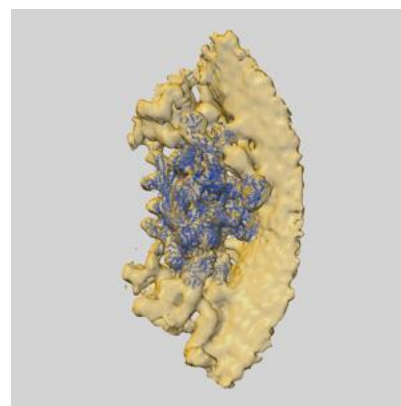
9.1.1 Map-model overlay [i](#)



X

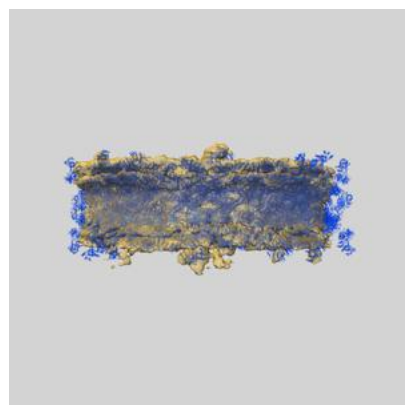


Y

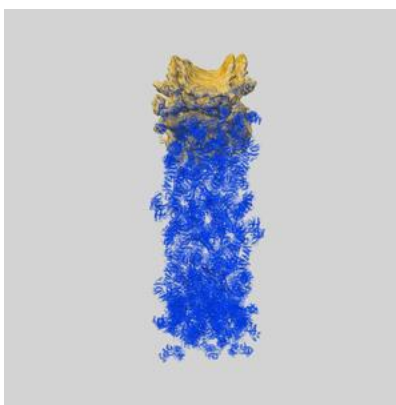


Z

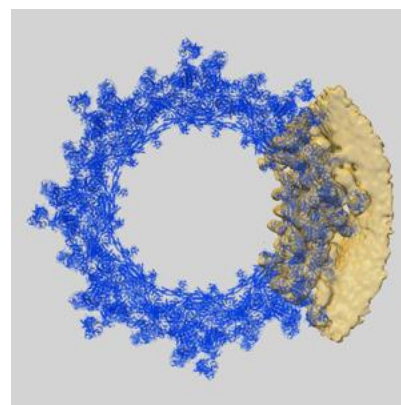
9.1.2 Map-model assembly overlay [i](#)



X



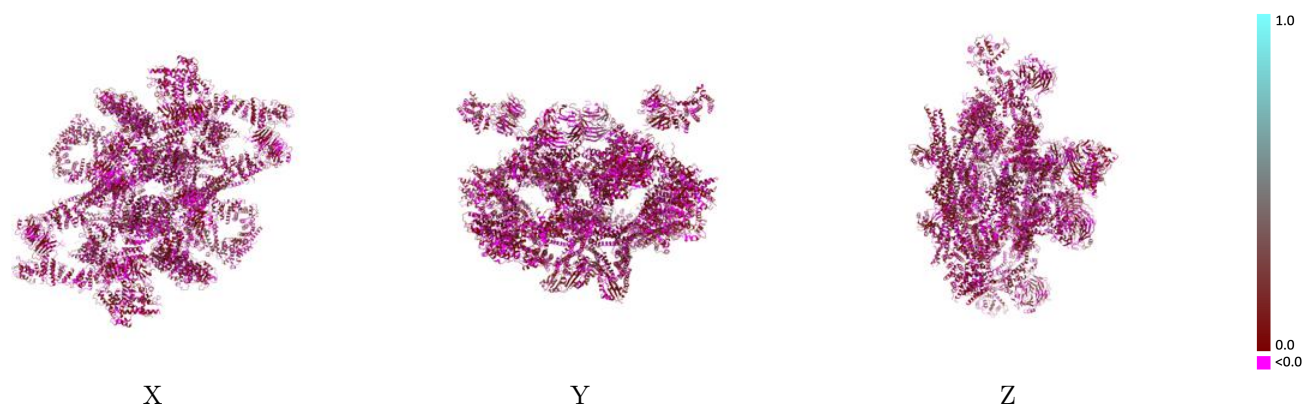
Y



Z

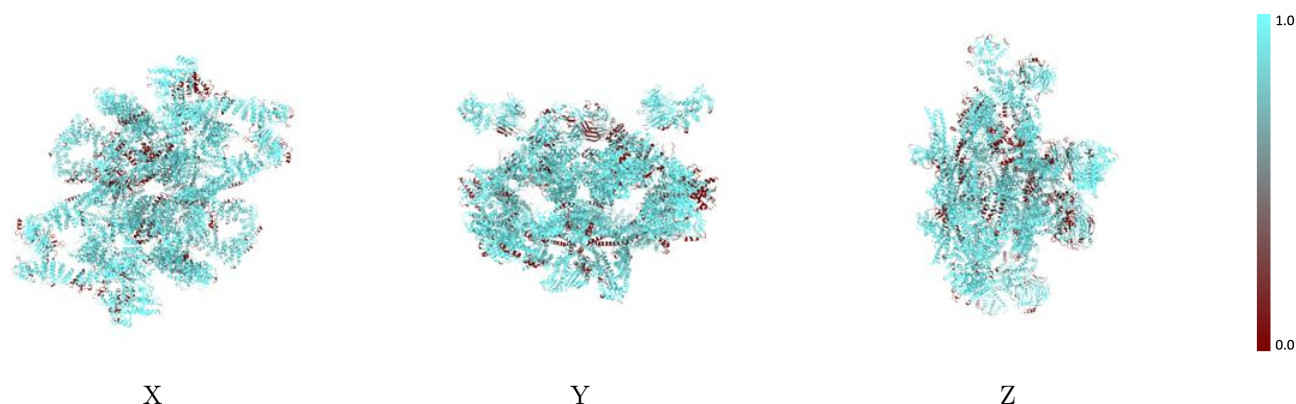
The images above show the 3D surface view of the map at the recommended contour level 36.6 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



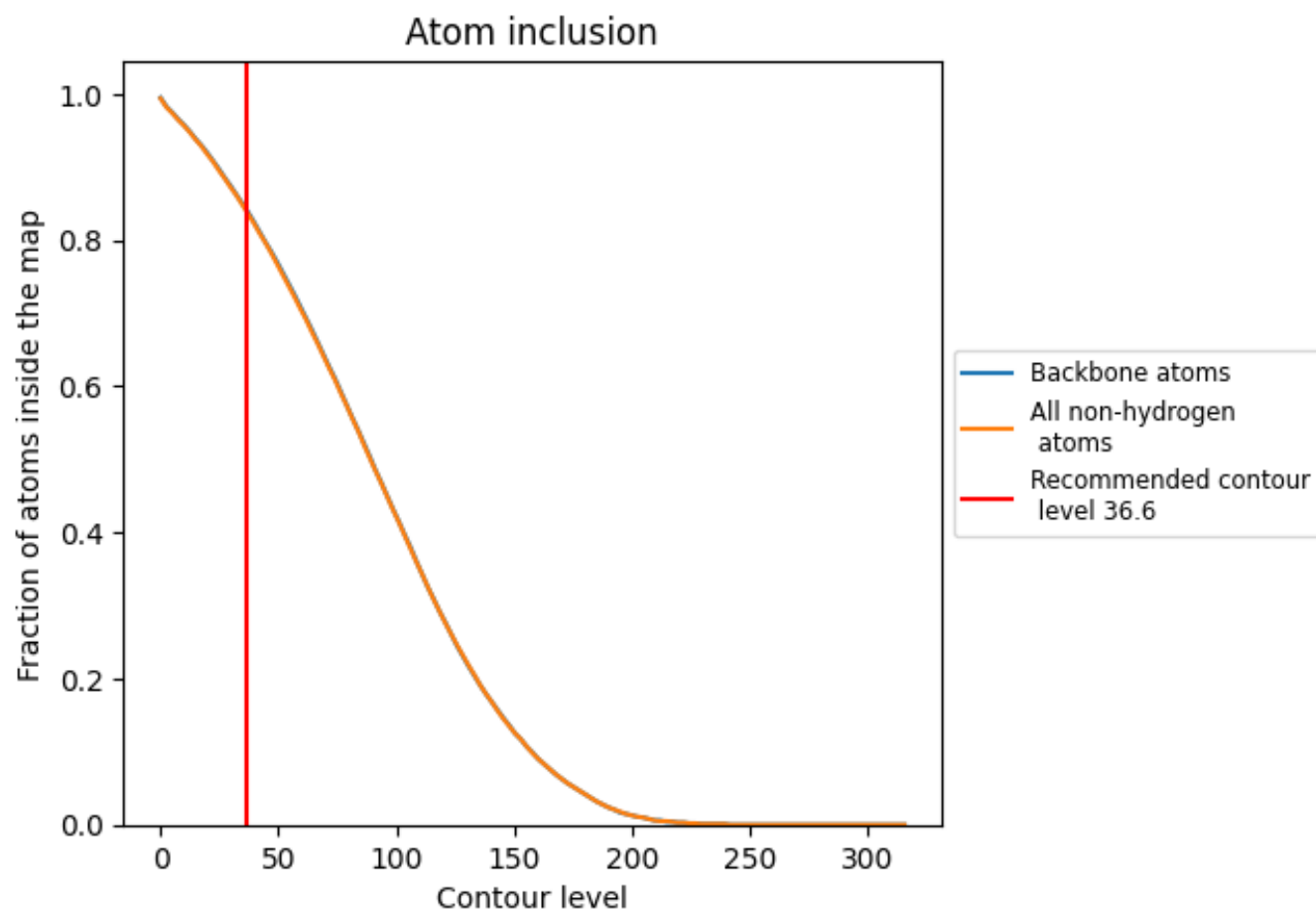
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (36.6).

9.4 Atom inclusion ⓘ



At the recommended contour level, 84% of all backbone atoms, 84% 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 (36.6) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8390	 0.0410
A	 0.9290	 0.0440
B	 0.8790	 0.0450
C	 0.8490	 0.0370
D	 0.8980	 0.0440
E	 0.8660	 0.0390
F	 0.8100	 0.0350
G	 0.9040	 0.0420
H	 0.7990	 0.0240
I	 0.8270	 0.0450
J	 0.8780	 0.0480
K	 0.5460	 0.0180
L	 0.7990	 0.0280
M	 0.8450	 0.0490
N	 0.8730	 0.0700
O	 0.8780	 0.0410
P	 0.8970	 0.0520
Q	 0.8810	 0.0420
R	 0.7760	 0.0280
S	 0.9330	 0.0520
T	 0.7480	 0.0290
U	 0.8000	 0.0390
V	 0.9040	 0.0470
W	 0.7750	 0.0340
X	 0.8370	 0.0380
Y	 0.9000	 0.0550
Z	 0.8490	 0.0460

