



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 12:18 AM UTC

PDB ID : 6HEA / pdb_00006hea
EMDB ID : EMD-0214
Title : PAN-proteasome in state 3
Authors : Majumder, P.; Rudack, T.; Beck, F.; Baumeister, W.
Deposited on : 2018-08-20
Resolution : 7.04 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
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

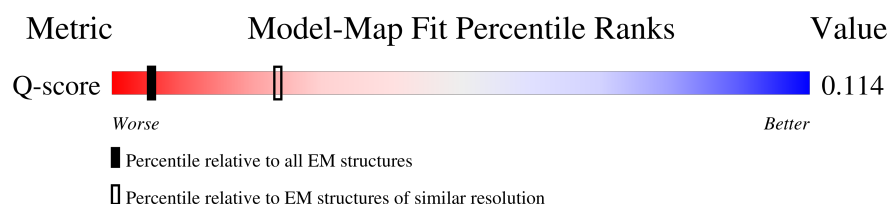
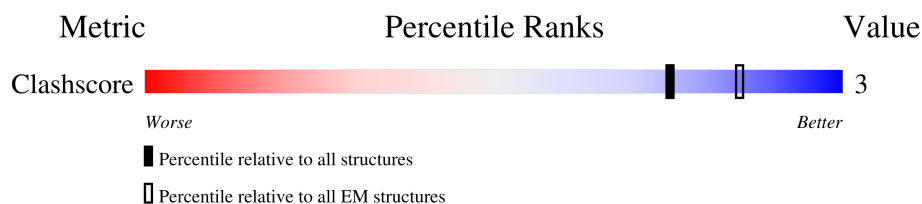
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

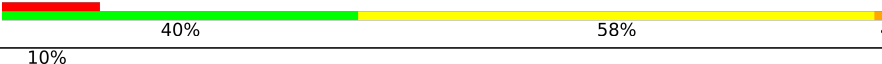
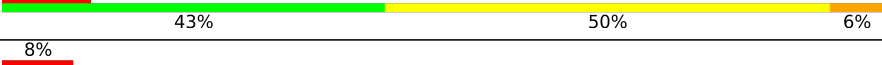
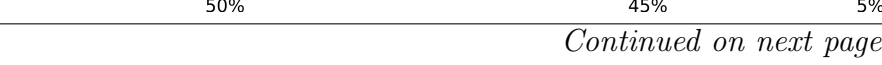
The reported resolution of this entry is 7.04 Å.

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	-
Q-score	-	25397	436 (6.54 - 7.52)

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	242	
1	B	242	
1	C	242	
1	D	242	
1	E	242	
1	F	242	

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Mol	Chain	Length	Quality of chain
1	G	242	
1	a	242	
1	b	242	
1	c	242	
1	d	242	
1	e	242	
1	f	242	
1	g	242	
2	1	202	
2	2	202	
2	3	202	
2	4	202	
2	5	202	
2	6	202	
2	7	202	
2	h	202	
2	i	202	
2	j	202	
2	k	202	
2	l	202	
2	m	202	
2	n	202	
3	H	390	
3	I	390	
3	J	390	

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Mol	Chain	Length	Quality of chain
3	K	390	19%46%46%7%
3	L	390	26%40%52%9%
3	M	390	29%39%52%8%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 66909 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 Proteasome subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	a	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		
1	B	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	b	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		
1	C	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	c	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		
1	D	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	d	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		
1	E	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	e	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		
1	F	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	f	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		
1	G	242	Total	C	N	O	S	0	0
			1907	1211	321	368	7		
1	g	237	Total	C	N	O	S	0	0
			1866	1186	315	359	6		

- Molecule 2 is a protein called Proteasome subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	h	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	2	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	i	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	3	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	j	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	4	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	k	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	5	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	l	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	6	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	m	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	7	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		
2	n	202	Total	C	N	O	S	0	0
			1553	982	260	305	6		

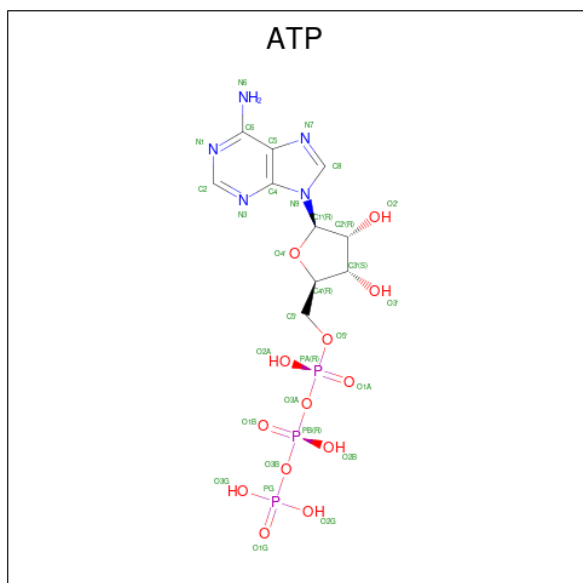
- Molecule 3 is a protein called Proteasome-activating nucleotidase.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	H	390	Total	C	N	O	S	0	0
			3100	1974	535	583	8		
3	I	390	Total	C	N	O	S	0	0
			3100	1974	535	583	8		
3	K	390	Total	C	N	O	S	0	0
			3100	1974	535	583	8		
3	L	390	Total	C	N	O	S	0	0
			3100	1974	535	583	8		
3	M	390	Total	C	N	O	S	0	0
			3100	1974	535	583	8		
3	J	390	Total	C	N	O	S	0	0
			3100	1974	535	583	8		

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
4	H	1	Total	Mg	0
			1	1	
4	I	1	Total	Mg	0
			1	1	
4	K	1	Total	Mg	0
			1	1	
4	M	1	Total	Mg	0
			1	1	
4	J	1	Total	Mg	0
			1	1	

- Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃).



Mol	Chain	Residues	Atoms					AltConf
5	I	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	I	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	M	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	J	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 6 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).

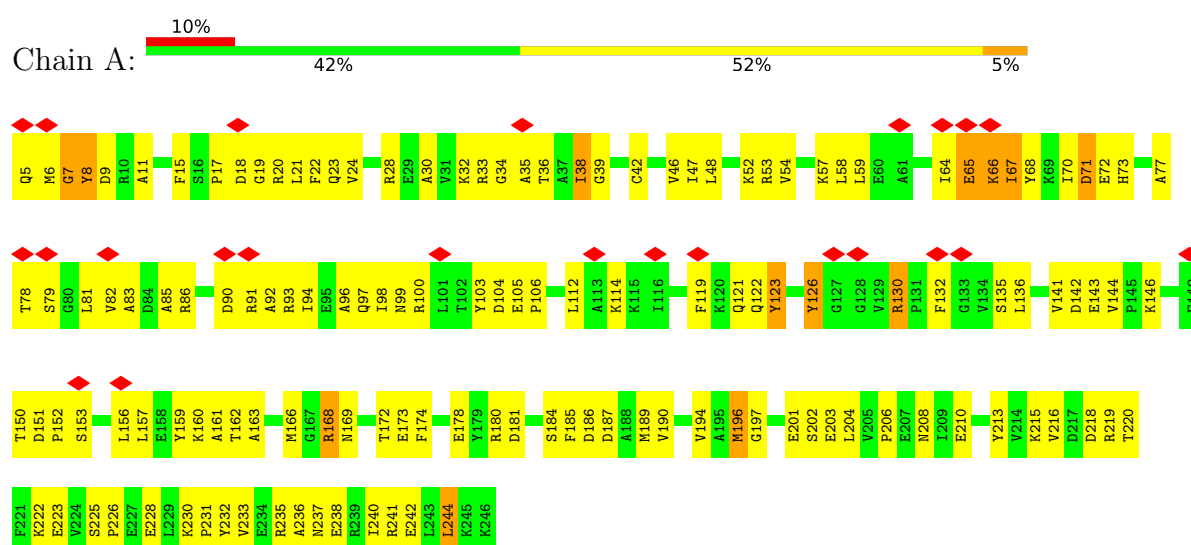


Mol	Chain	Residues	Atoms					AltConf
6	K	1	Total	C	N	O	P	0
			27	10	5	10	2	

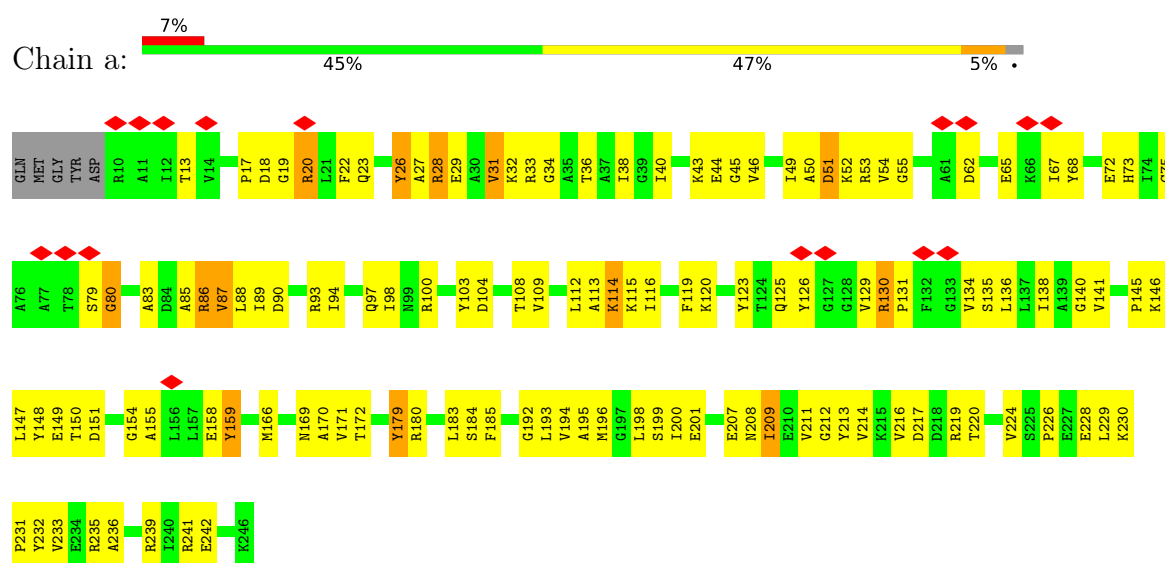
3 Residue-property plots

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

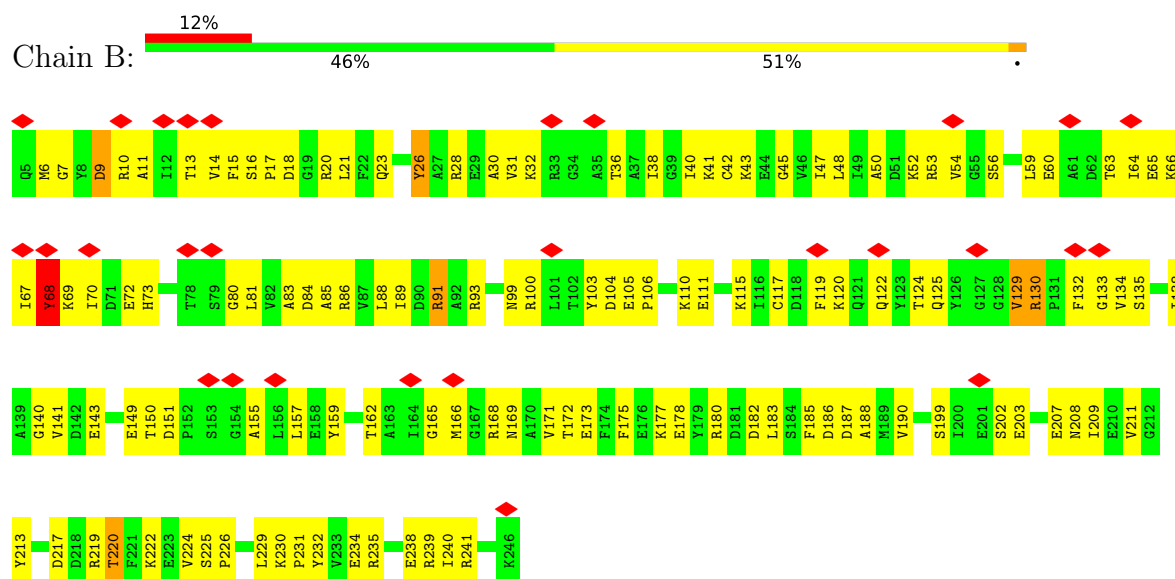
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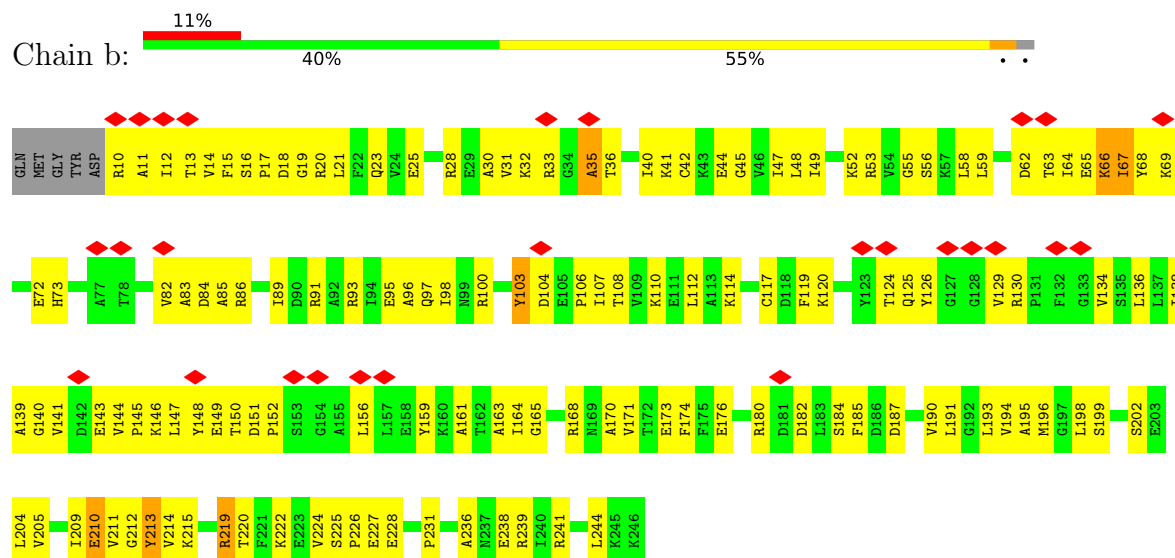
• Molecule 1: Proteasome subunit alpha



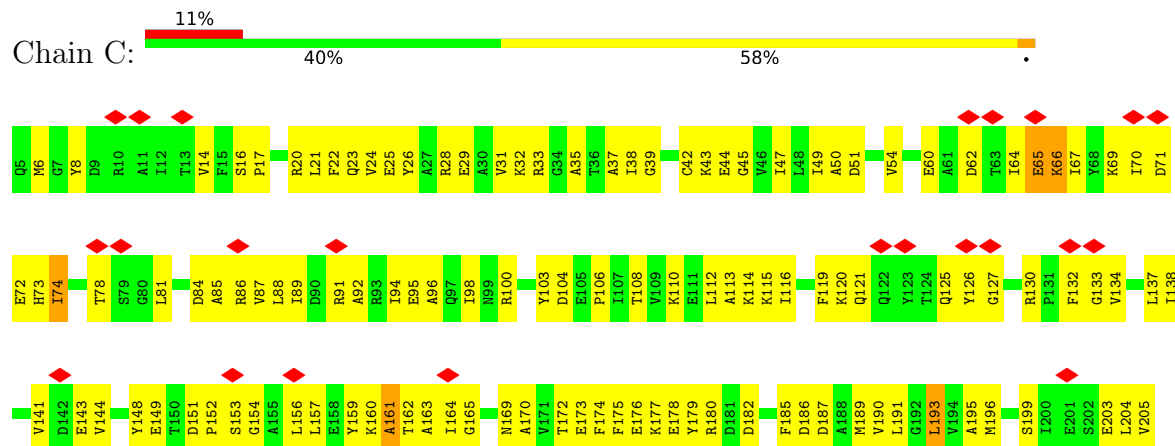
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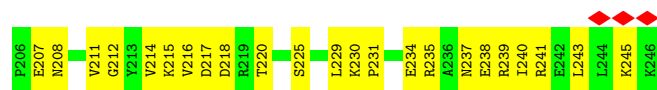


• Molecule 1: Proteasome subunit alpha

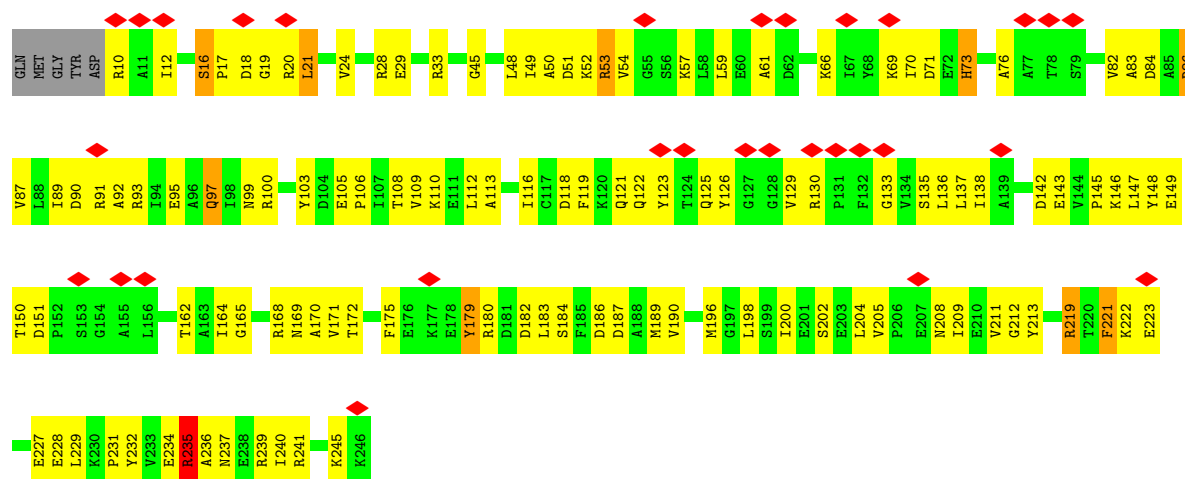


• Molecule 1: Proteasome subunit alpha

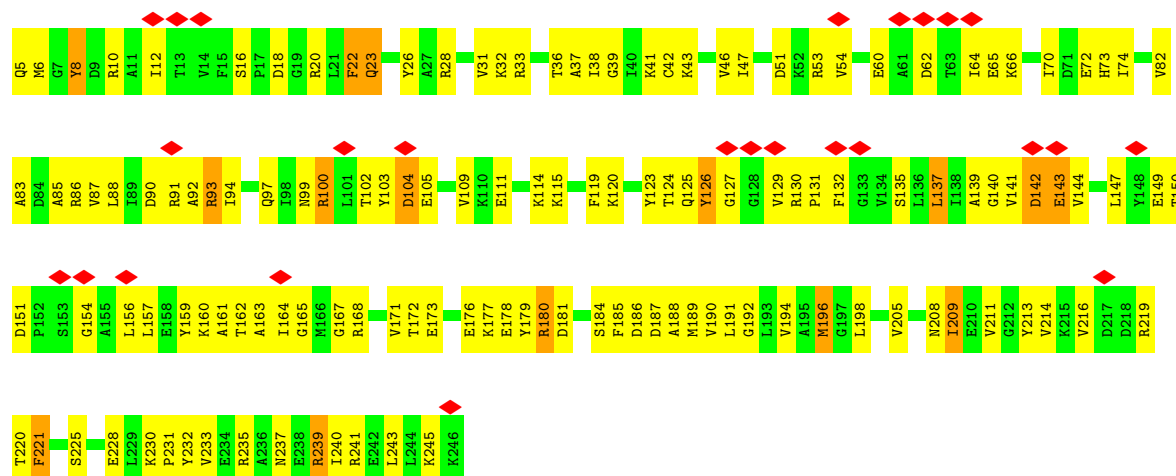
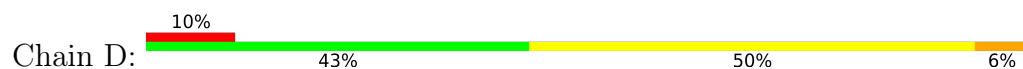




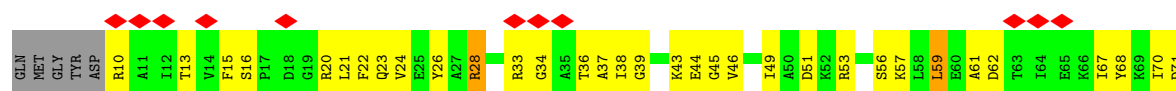
• Molecule 1: Proteasome subunit alpha

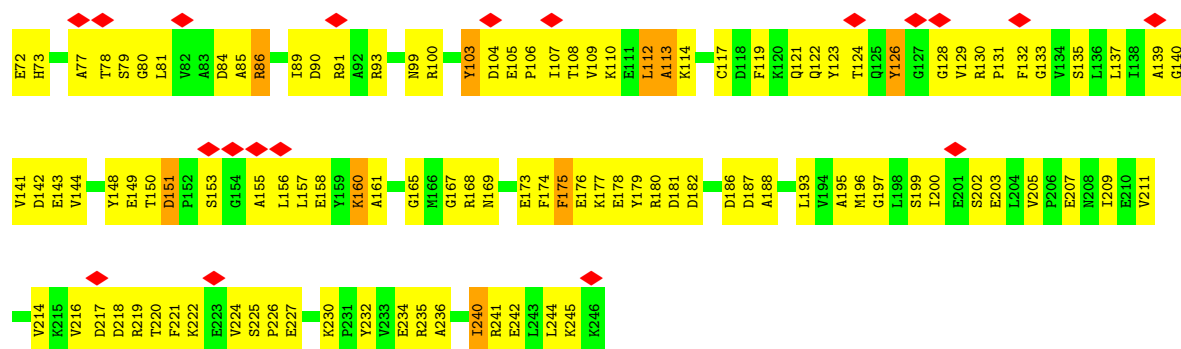


• Molecule 1: Proteasome subunit alpha

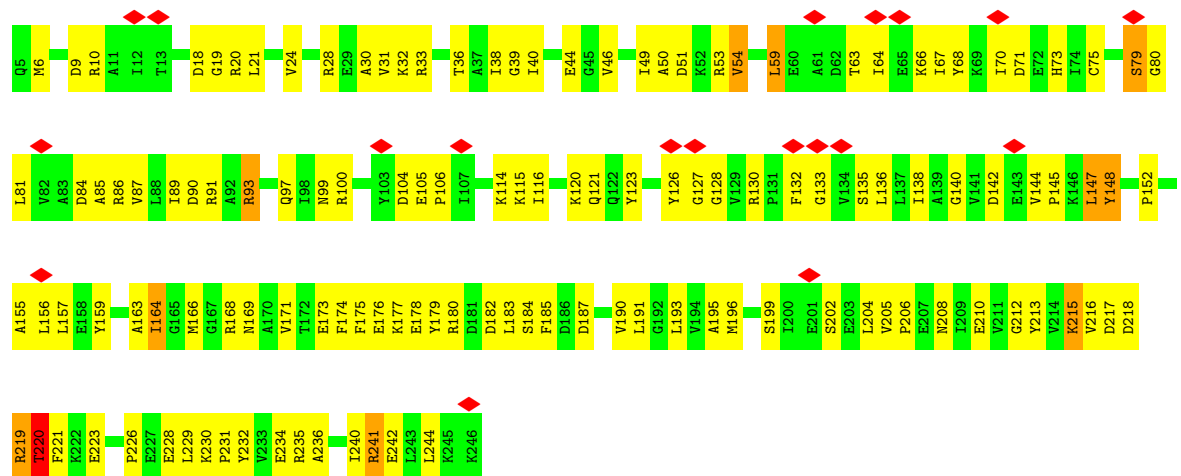


• Molecule 1: Proteasome subunit alpha

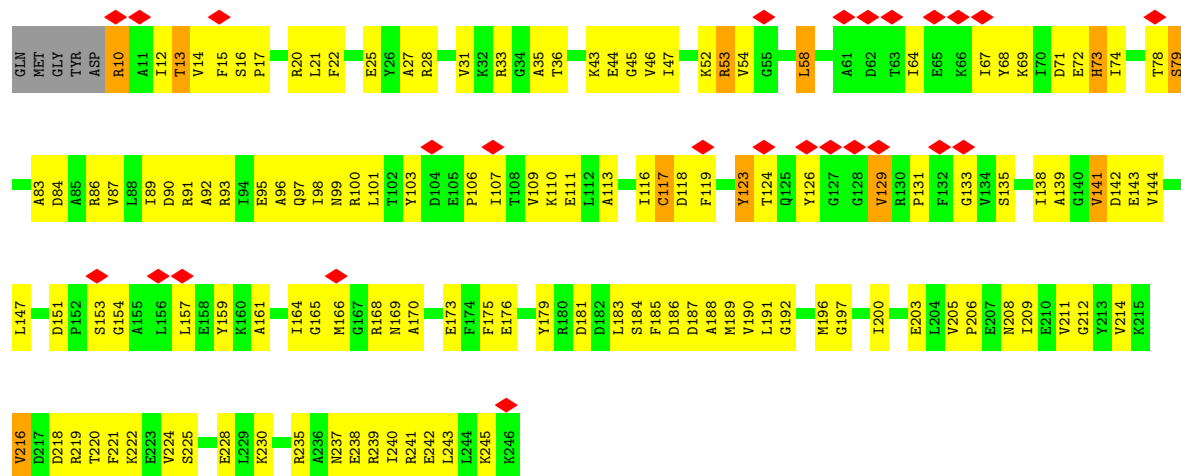




• Molecule 1: Proteasome subunit alpha



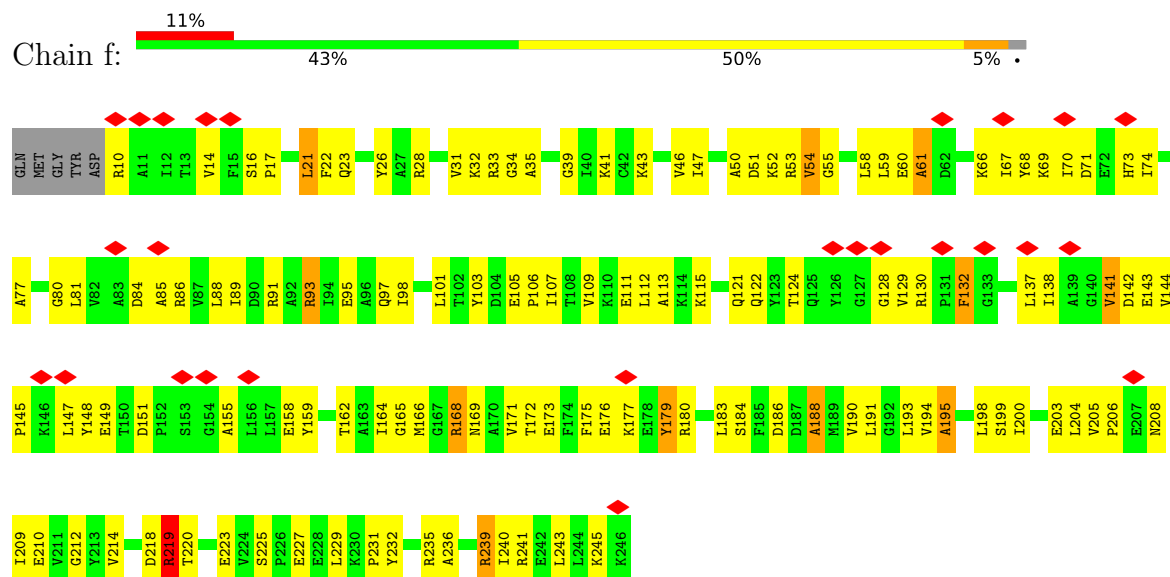
• Molecule 1: Proteasome subunit alpha



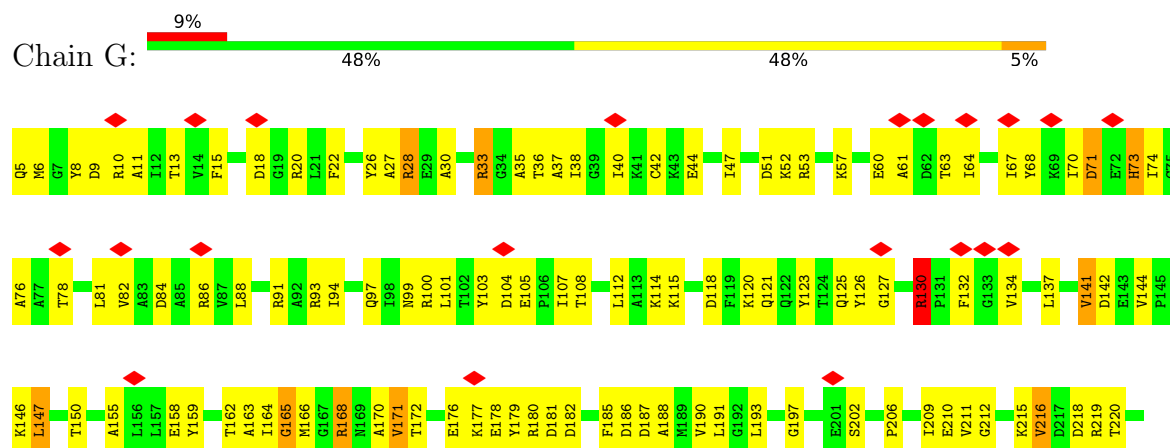
• Molecule 1: Proteasome subunit alpha



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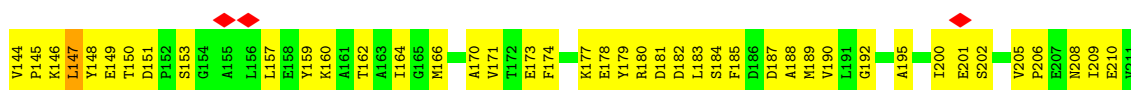
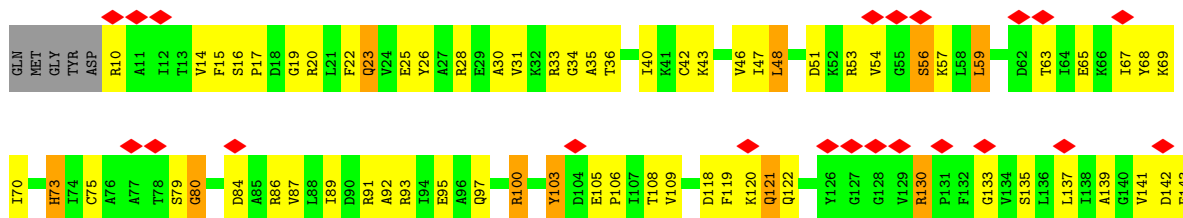


• Molecule 1: Proteasome subunit alpha

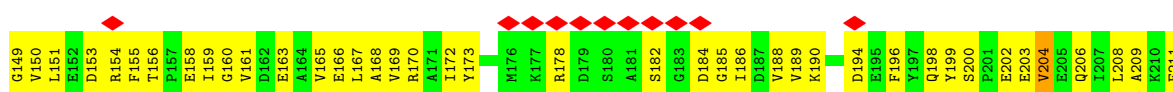
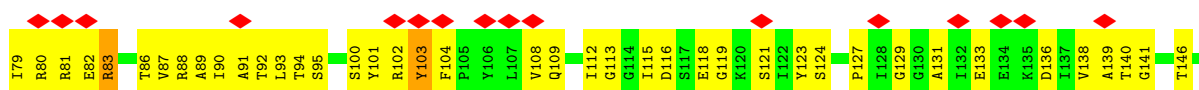




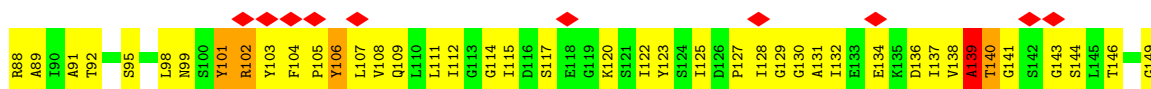
• Molecule 1: Proteasome subunit alpha

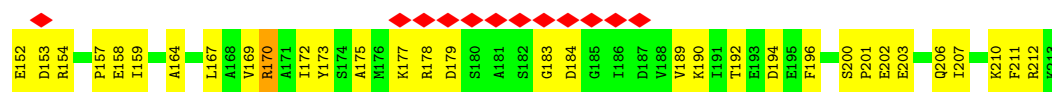


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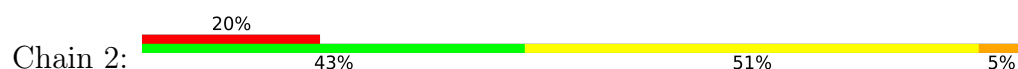


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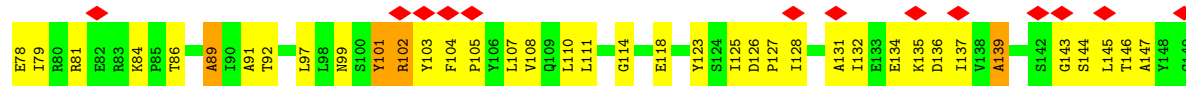
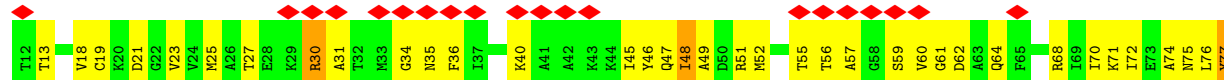




• Molecule 2: Proteasome subunit beta



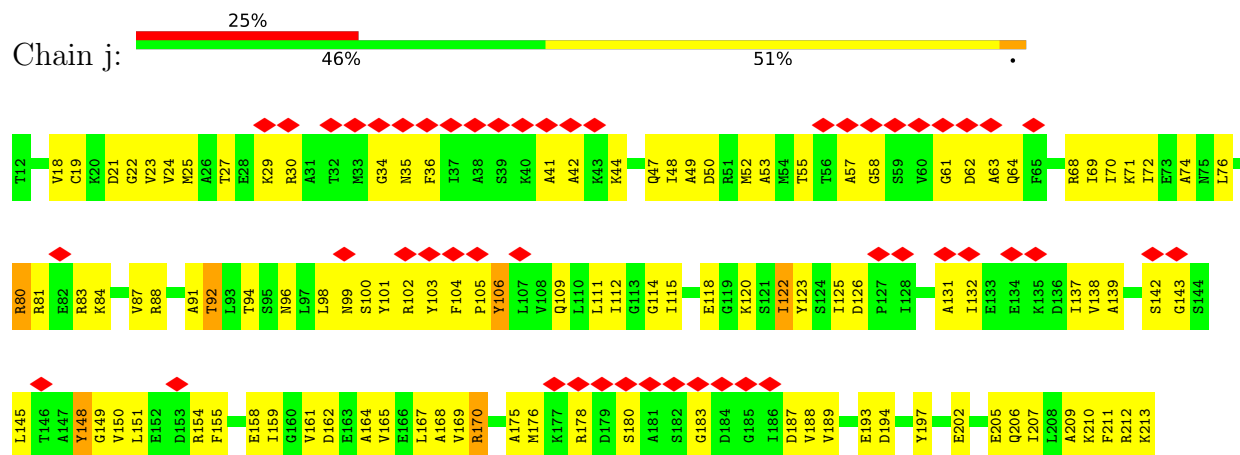
• Molecule 2: Proteasome subunit beta



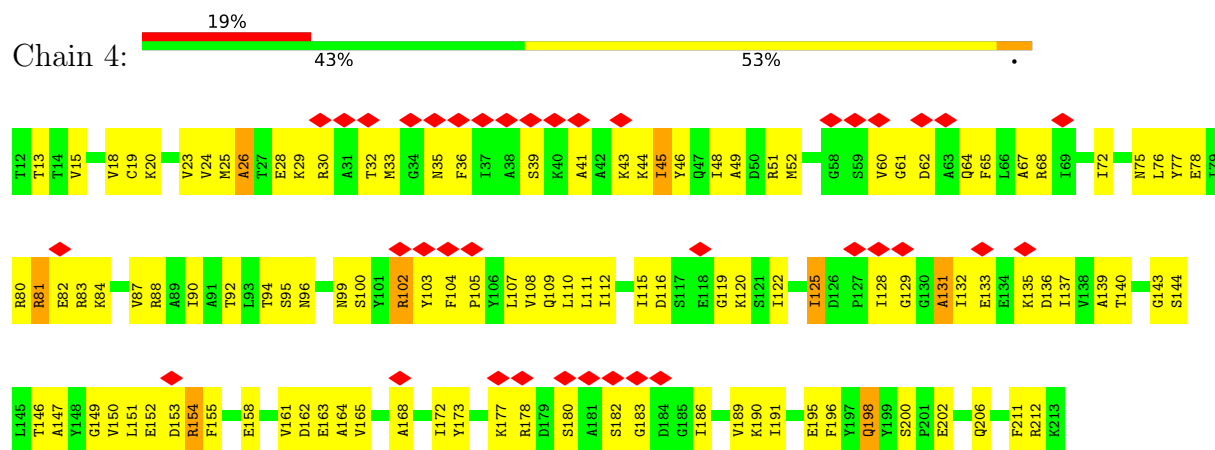
• Molecule 2: Proteasome subunit beta



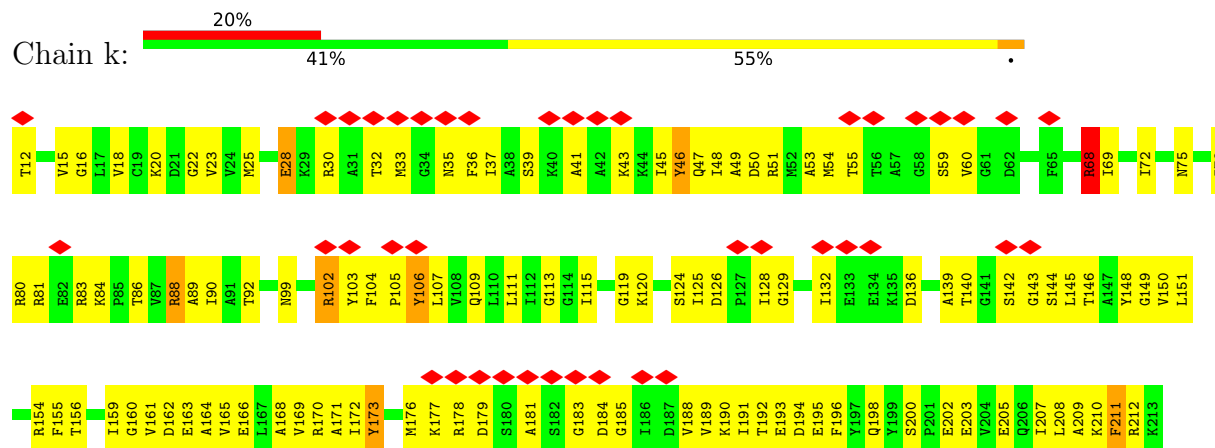
- Molecule 2: Proteasome subunit beta



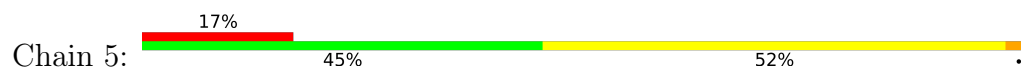
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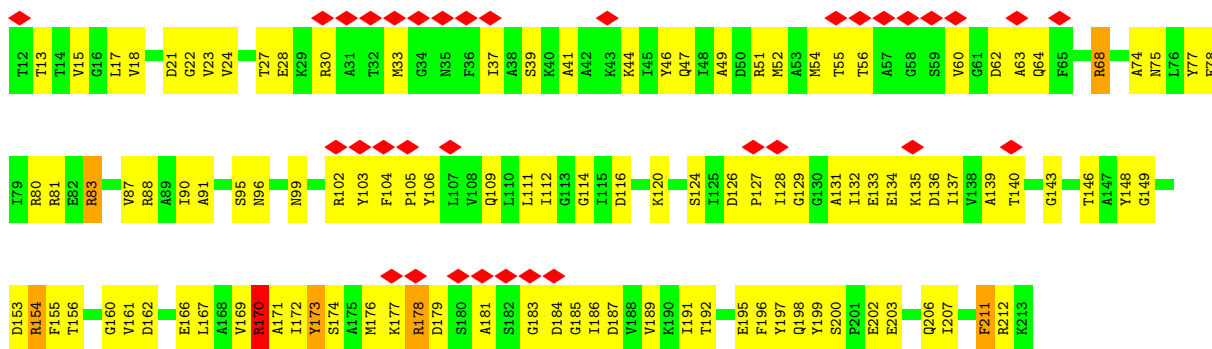


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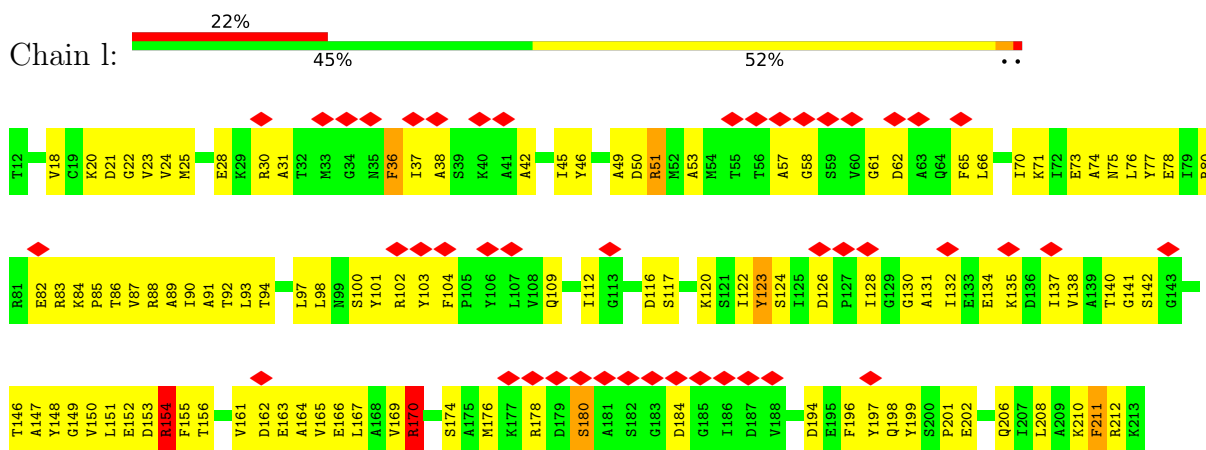


- Molecule 2: Proteasome subunit beta

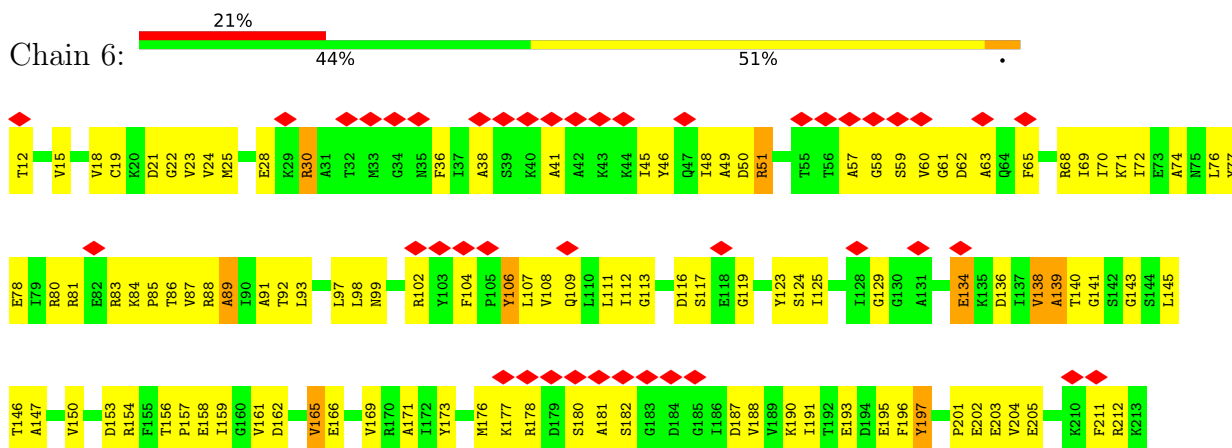




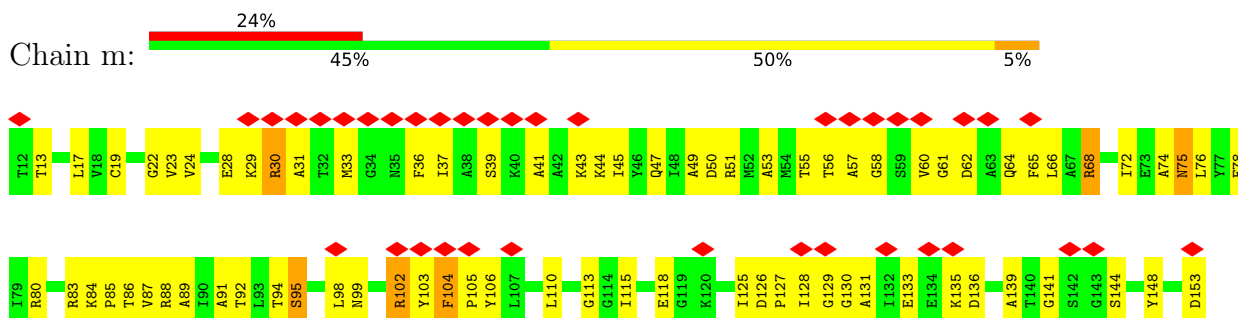
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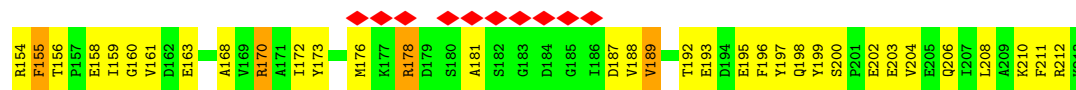


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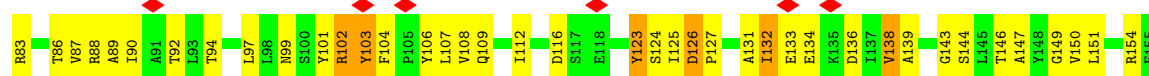
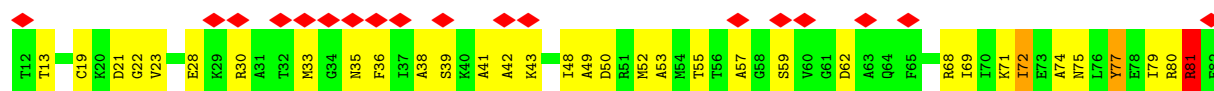


• Molecule 2: Proteasome subunit beta

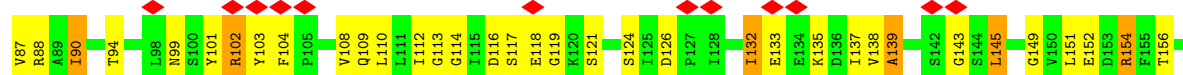
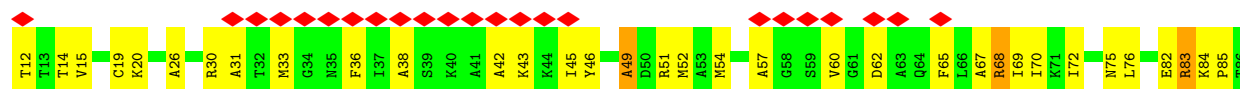




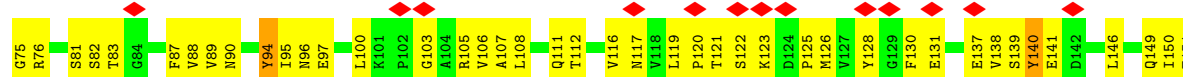
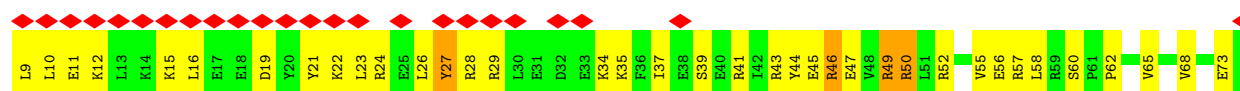
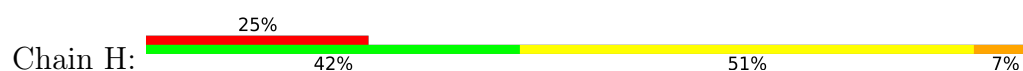
• Molecule 2: Proteasome subunit beta

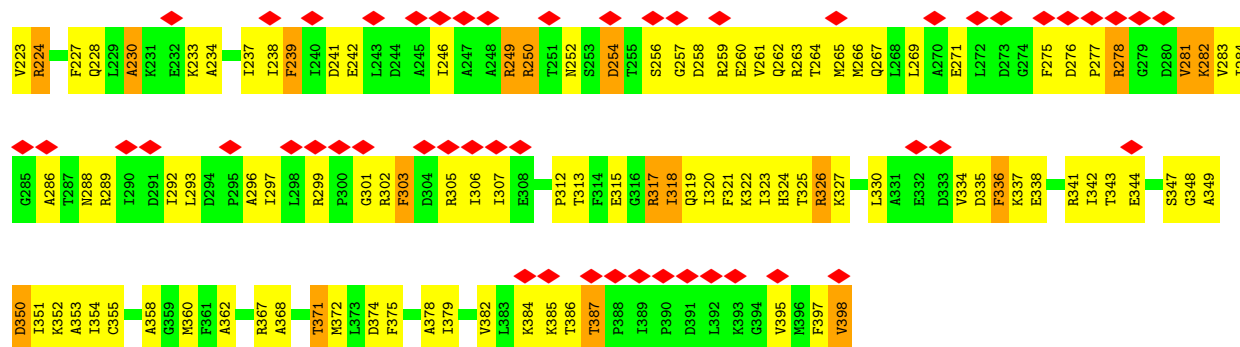


• Molecule 2: Proteasome subunit beta

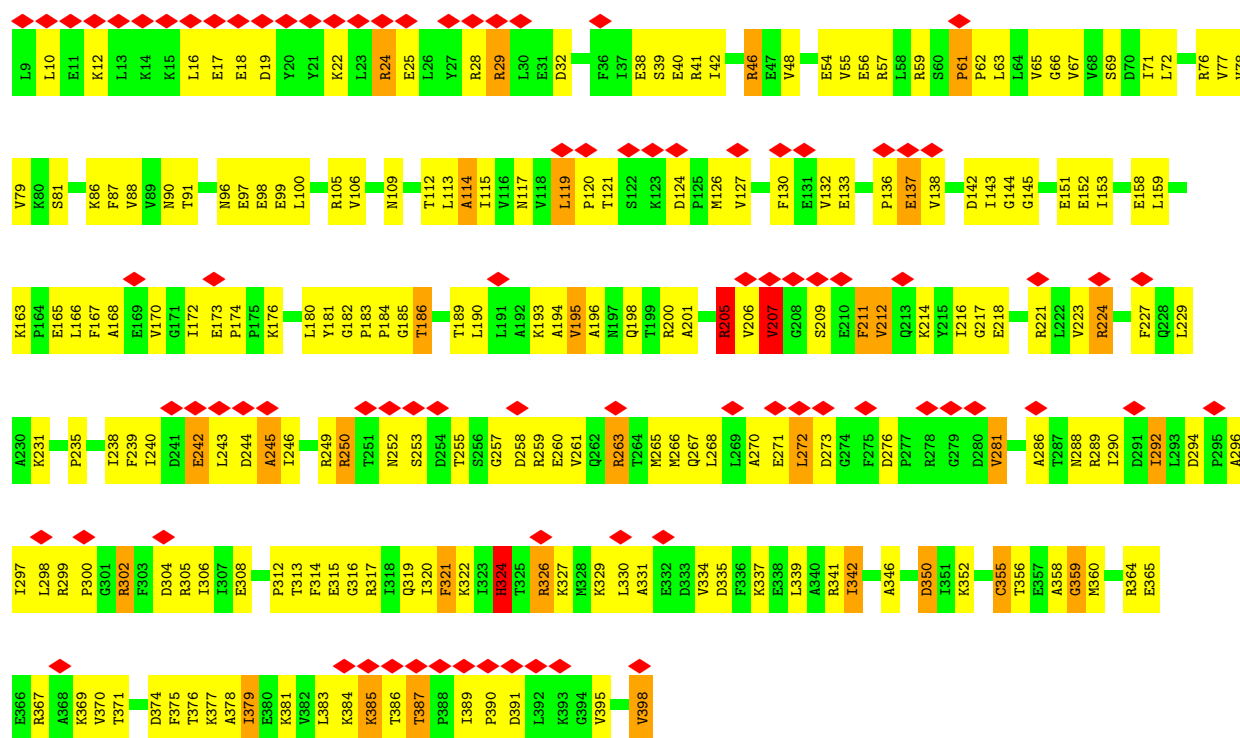
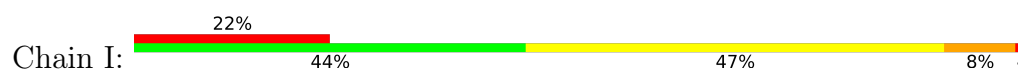


• Molecule 3: Proteasome-activating nucleotidase

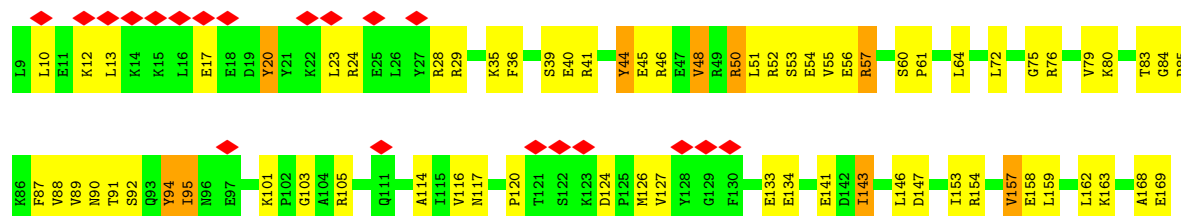


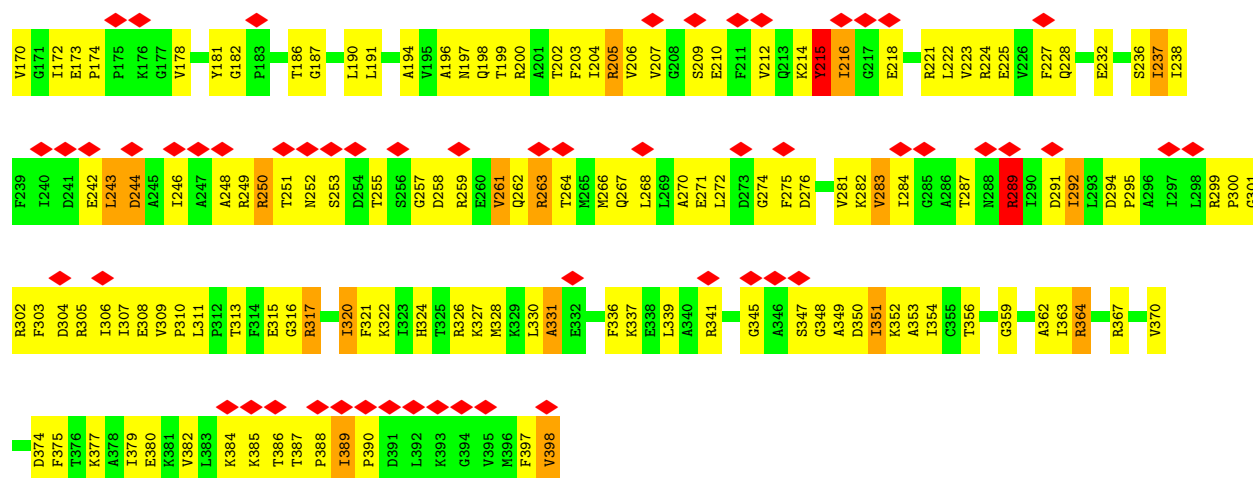


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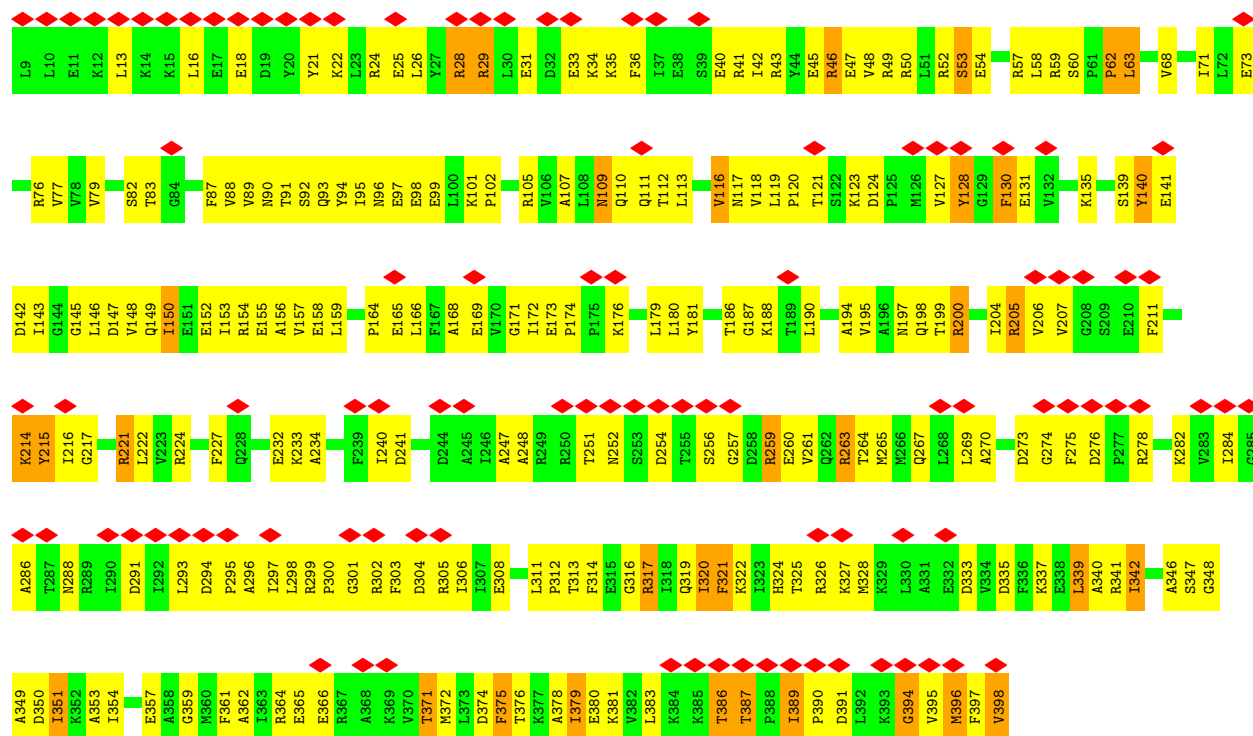


• Molecule 3: Proteasome-activating nucleotidase

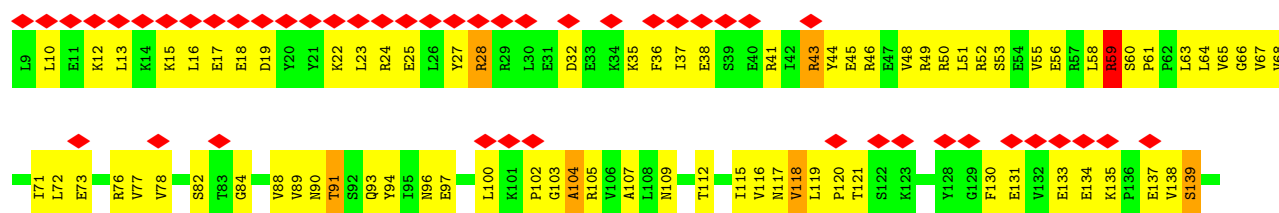


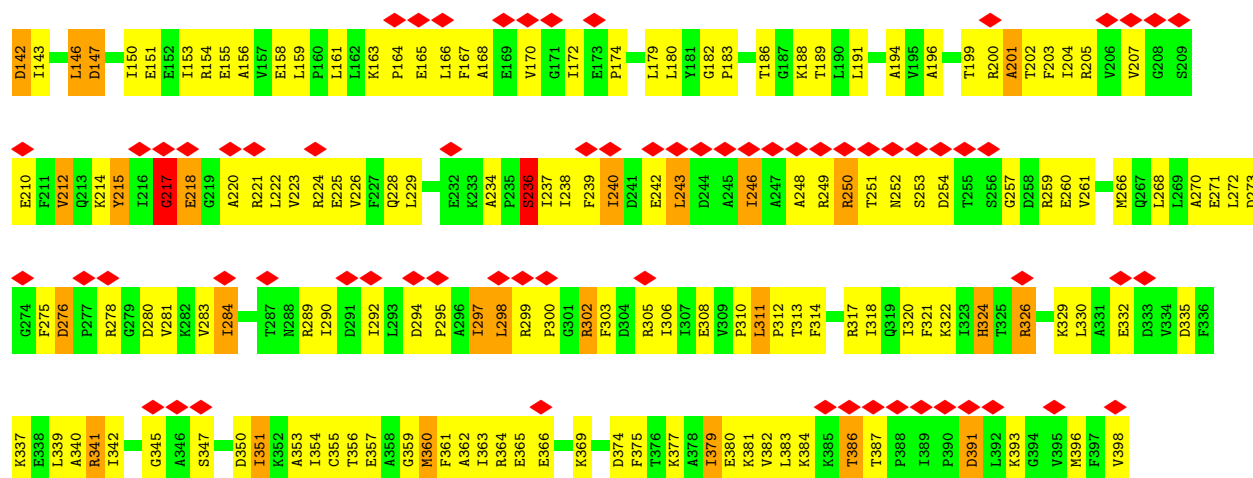


• Molecule 3: Proteasome-activating nucleotidase

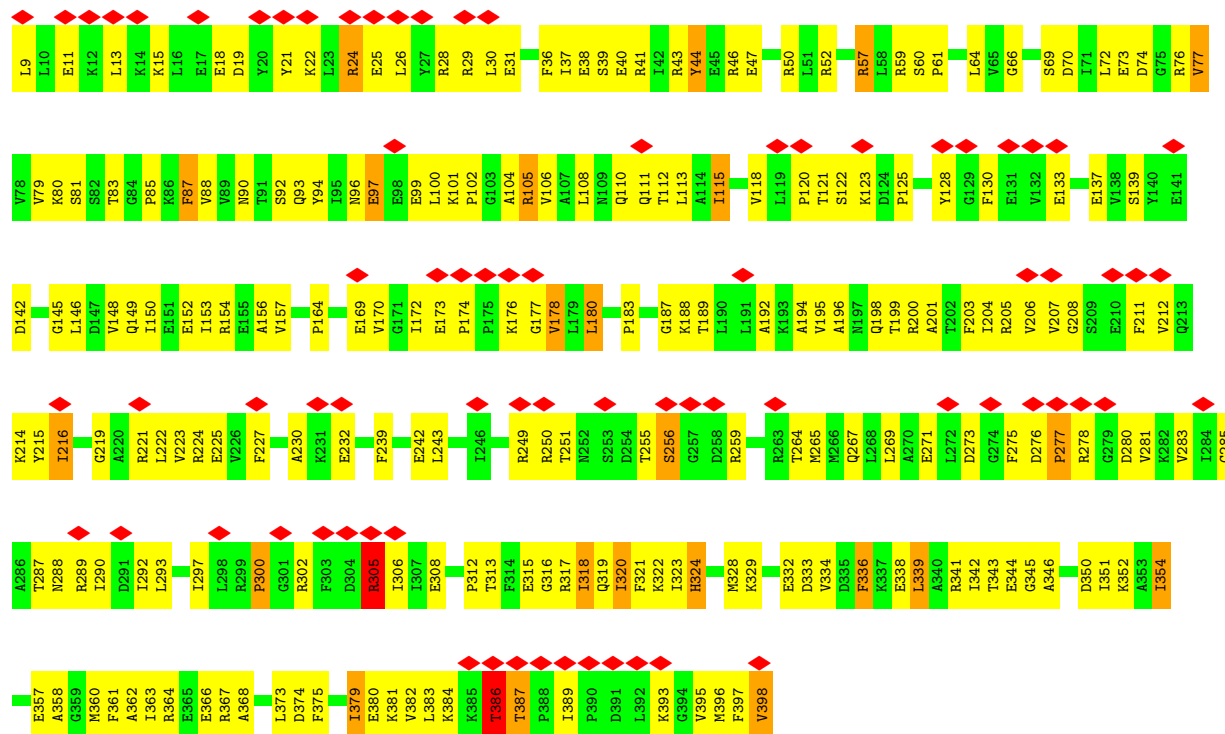


• Molecule 3: Proteasome-activating nucleotidase





• Molecule 3: Proteasome-activating nucleotidase



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	31471	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	30	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.054	Depositor
Minimum map value	-0.040	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.0072	Depositor
Map size ($\text{\AA}$)	514.56, 514.56, 514.56	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.34, 1.34, 1.34	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ADP, ATP

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	2.29	69/1934 (3.6%)	2.46	135/2605 (5.2%)
1	B	2.37	91/1934 (4.7%)	2.43	115/2605 (4.4%)
1	C	2.36	90/1934 (4.7%)	2.46	132/2605 (5.1%)
1	D	2.27	73/1934 (3.8%)	2.53	136/2605 (5.2%)
1	E	2.25	75/1934 (3.9%)	2.51	143/2605 (5.5%)
1	F	2.33	68/1934 (3.5%)	2.40	125/2605 (4.8%)
1	G	2.34	86/1934 (4.4%)	2.33	102/2605 (3.9%)
1	a	2.32	80/1892 (4.2%)	2.38	107/2549 (4.2%)
1	b	2.32	78/1892 (4.1%)	2.43	121/2549 (4.7%)
1	c	2.27	79/1892 (4.2%)	2.39	114/2549 (4.5%)
1	d	2.23	71/1892 (3.8%)	2.51	150/2549 (5.9%)
1	e	2.28	70/1892 (3.7%)	2.46	137/2549 (5.4%)
1	f	2.29	78/1892 (4.1%)	2.51	141/2549 (5.5%)
1	g	2.25	70/1892 (3.7%)	2.49	135/2549 (5.3%)
2	1	2.32	70/1573 (4.5%)	2.53	120/2121 (5.7%)
2	2	2.29	60/1573 (3.8%)	2.42	99/2121 (4.7%)
2	3	2.22	50/1573 (3.2%)	2.49	115/2121 (5.4%)
2	4	2.29	69/1573 (4.4%)	2.44	114/2121 (5.4%)
2	5	3.13	69/1573 (4.4%)	2.52	116/2121 (5.5%)
2	6	2.28	62/1573 (3.9%)	2.51	104/2121 (4.9%)
2	7	2.29	57/1573 (3.6%)	2.46	113/2121 (5.3%)
2	h	2.31	65/1573 (4.1%)	2.40	108/2121 (5.1%)
2	i	2.24	62/1573 (3.9%)	2.44	106/2121 (5.0%)
2	j	2.31	60/1573 (3.8%)	2.48	113/2121 (5.3%)
2	k	2.32	67/1573 (4.3%)	2.52	114/2121 (5.4%)
2	l	3.08	59/1573 (3.8%)	2.53	104/2121 (4.9%)
2	m	2.29	61/1573 (3.9%)	2.40	100/2121 (4.7%)
2	n	2.27	57/1573 (3.6%)	2.42	94/2121 (4.4%)
3	H	2.30	133/3146 (4.2%)	2.43	209/4240 (4.9%)
3	I	2.28	107/3146 (3.4%)	2.48	222/4240 (5.2%)
3	J	2.32	135/3146 (4.3%)	2.37	202/4240 (4.8%)
3	K	2.25	115/3146 (3.7%)	2.45	209/4240 (4.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	L	2.30	132/3146 (4.2%)	2.49	240/4240 (5.7%)
3	M	2.27	130/3146 (4.1%)	2.51	241/4240 (5.7%)
All	All	2.34	2698/67680 (4.0%)	2.46	4636/91212 (5.1%)

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	7
1	B	0	9
1	C	0	4
1	D	0	11
1	E	0	5
1	F	0	8
1	G	0	9
1	a	0	9
1	b	0	6
1	c	0	8
1	d	0	10
1	e	0	7
1	f	0	7
1	g	0	8
2	1	0	4
2	2	0	8
2	3	0	6
2	4	0	7
2	5	0	9
2	6	0	3
2	7	0	8
2	h	0	7
2	i	0	6
2	j	0	4
2	k	0	10
2	l	0	8
2	m	0	6
2	n	0	6
3	H	0	22
3	I	0	19
3	J	0	14
3	K	0	11

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	L	0	21
3	M	0	19
All	All	0	306

All (2698) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	l	170	ARG	CZ-NH1	56.76	2.12	1.32
2	5	170	ARG	CZ-NH1	56.28	2.11	1.32
2	5	211	PHE	CG-CD2	35.46	2.13	1.38
2	1	211	PHE	CG-CD2	34.02	2.10	1.38
2	1	211	PHE	CG-CD1	32.26	2.06	1.38
2	5	211	PHE	CG-CD1	30.86	2.03	1.38
2	5	211	PHE	CE2-CZ	22.85	2.07	1.38
2	1	211	PHE	CD1-CE1	22.05	2.04	1.38
2	1	211	PHE	CE2-CZ	22.05	2.04	1.38
2	1	211	PHE	CE1-CZ	21.51	2.03	1.38
2	5	211	PHE	CD1-CE1	20.91	2.01	1.38
2	5	211	PHE	CD2-CE2	20.75	2.00	1.38
2	1	211	PHE	CD2-CE2	20.51	2.00	1.38
2	5	211	PHE	CE1-CZ	20.32	1.99	1.38
2	1	113	GLY	CA-C	-13.10	1.37	1.51
1	F	45	GLY	CA-C	-11.85	1.38	1.51
2	7	104	PHE	N-CA	-11.80	1.37	1.46
2	2	16	GLY	N-CA	-11.75	1.34	1.45
3	J	398	VAL	C-O	-11.58	1.00	1.23
3	I	398	VAL	C-O	-11.56	1.00	1.23
3	L	398	VAL	C-O	-11.56	1.00	1.23
3	M	398	VAL	C-O	-11.56	1.00	1.23
3	H	398	VAL	C-OXT	-11.55	1.00	1.23
3	I	398	VAL	C-OXT	-11.55	1.00	1.23
3	M	398	VAL	C-OXT	-11.54	1.00	1.23
3	L	398	VAL	C-OXT	-11.54	1.00	1.23
3	K	398	VAL	C-OXT	-11.53	1.00	1.23
3	H	398	VAL	C-O	-11.53	1.00	1.23
3	K	398	VAL	C-O	-11.53	1.00	1.23
3	J	398	VAL	C-OXT	-11.53	1.00	1.23
3	I	308	GLU	C-N	11.47	1.43	1.33
1	e	230	LYS	CA-CB	11.38	1.64	1.54
3	M	89	VAL	CA-C	-11.05	1.39	1.52
1	g	53	ARG	CA-C	-10.97	1.38	1.52
2	h	134	GLU	CA-C	-10.92	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	221	ARG	CA-C	-10.79	1.38	1.52
2	4	29	LYS	CA-C	-10.52	1.39	1.52
3	J	357	GLU	CA-C	-10.51	1.39	1.52
3	L	164	PRO	N-CA	-10.44	1.40	1.47
1	A	241	ARG	CD-NE	10.36	1.60	1.46
3	I	214	LYS	C-N	10.31	1.42	1.33
3	J	37	ILE	CA-CB	-10.22	1.41	1.54
2	n	60	VAL	CA-CB	10.21	1.67	1.54
1	d	230	LYS	N-CA	-9.99	1.37	1.46
3	L	361	PHE	CA-C	-9.98	1.39	1.52
1	e	100	ARG	CD-NE	9.97	1.60	1.46
1	F	186	ASP	CA-C	-9.88	1.40	1.52
2	l	74	ALA	C-N	9.84	1.47	1.33
1	f	80	GLY	C-O	-9.81	1.18	1.24
3	K	190	LEU	CA-C	-9.74	1.39	1.52
2	j	132	ILE	CA-CB	-9.73	1.42	1.54
1	F	130	ARG	NE-CZ	9.63	1.43	1.33
1	D	119	PHE	C-N	9.63	1.46	1.33
1	a	158	GLU	CA-C	-9.56	1.41	1.52
3	M	294	ASP	CA-C	-9.54	1.42	1.53
1	d	188	ALA	CA-C	-9.53	1.40	1.52
1	B	143	GLU	C-N	9.49	1.41	1.33
2	6	197	TYR	CA-C	-9.40	1.41	1.52
3	K	163	LYS	N-CA	-9.40	1.37	1.46
1	a	180	ARG	NE-CZ	9.39	1.43	1.33
2	3	99	ASN	CA-CB	9.39	1.68	1.53
1	G	73	HIS	N-CA	-9.38	1.34	1.46
2	5	134	GLU	CA-C	-9.38	1.41	1.52
3	M	214	LYS	CA-C	9.37	1.65	1.52
1	D	33	ARG	N-CA	-9.35	1.34	1.46
2	2	22	GLY	N-CA	-9.34	1.36	1.45
1	a	209	ILE	N-CA	-9.30	1.35	1.46
3	I	312	PRO	CA-C	-9.29	1.40	1.52
3	M	383	LEU	CA-C	-9.28	1.40	1.52
2	5	105	PRO	C-N	9.22	1.45	1.33
2	k	68	ARG	NE-CZ	9.21	1.43	1.33
3	J	251	THR	CA-C	-9.21	1.41	1.52
2	m	154	ARG	C-N	9.20	1.45	1.33
1	g	222	LYS	CA-C	-9.19	1.41	1.52
3	J	178	VAL	CA-C	-9.11	1.41	1.52
3	L	351	ILE	CA-C	-9.10	1.41	1.52
2	1	139	ALA	CA-C	-9.07	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	278	ARG	CD-NE	9.07	1.58	1.46
1	a	53	ARG	CD-NE	9.06	1.58	1.46
2	l	138	VAL	CA-CB	-9.06	1.43	1.54
1	c	235	ARG	CD-NE	9.05	1.58	1.46
1	F	211	VAL	CA-C	-9.00	1.42	1.52
1	A	218	ASP	CA-C	-9.00	1.43	1.52
2	4	112	ILE	N-CA	-8.99	1.35	1.46
1	b	11	ALA	C-N	8.98	1.42	1.33
3	K	55	VAL	C-N	8.97	1.47	1.33
1	a	216	VAL	CA-C	-8.96	1.41	1.53
3	J	60	SER	C-N	8.95	1.44	1.33
1	G	159	TYR	N-CA	-8.93	1.34	1.46
2	1	196	PHE	CA-CB	8.93	1.67	1.52
1	E	100	ARG	CD-NE	8.87	1.58	1.46
2	7	83	ARG	CD-NE	8.86	1.58	1.46
2	h	210	LYS	CA-C	-8.86	1.42	1.52
1	F	219	ARG	CA-C	8.85	1.64	1.53
3	I	364	ARG	CD-NE	8.84	1.58	1.46
2	5	54	MET	CA-C	-8.81	1.41	1.52
2	1	101	TYR	CA-C	-8.79	1.42	1.53
3	M	183	PRO	CA-C	-8.79	1.44	1.52
3	I	305	ARG	CA-C	-8.77	1.41	1.53
1	B	225	SER	CA-C	-8.77	1.42	1.53
3	L	139	SER	CA-C	-8.75	1.41	1.53
3	L	205	ARG	NE-CZ	8.74	1.42	1.33
3	J	204	ILE	CA-C	-8.74	1.41	1.52
1	B	135	SER	C-N	8.72	1.46	1.33
2	4	102	ARG	CD-NE	8.72	1.58	1.46
3	L	274	GLY	C-N	8.71	1.45	1.33
3	L	94	TYR	CA-C	-8.70	1.41	1.52
1	F	53	ARG	CA-C	-8.68	1.41	1.52
2	4	120	LYS	CA-C	-8.68	1.42	1.52
2	m	75	ASN	C-N	8.68	1.45	1.33
2	2	107	LEU	CA-CB	8.66	1.66	1.53
1	D	140	GLY	CA-C	-8.65	1.42	1.51
1	g	217	ASP	C-N	8.63	1.45	1.33
3	M	278	ARG	CD-NE	8.62	1.58	1.46
3	L	87	PHE	N-CA	-8.62	1.34	1.45
2	m	78	GLU	CA-C	-8.61	1.41	1.52
1	B	59	LEU	CA-C	-8.60	1.42	1.52
2	7	171	ALA	C-N	8.59	1.44	1.33
1	B	162	THR	CA-C	-8.58	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	241	ARG	NE-CZ	8.57	1.42	1.33
1	D	189	MET	CA-CB	8.56	1.66	1.53
3	M	300	PRO	N-CA	-8.56	1.37	1.47
3	J	281	VAL	C-N	8.56	1.45	1.33
1	A	232	TYR	C-N	8.56	1.44	1.34
1	C	49	ILE	CA-C	-8.55	1.42	1.52
1	D	230	LYS	CA-C	-8.54	1.44	1.52
1	f	200	ILE	CA-CB	-8.54	1.44	1.54
1	e	100	ARG	NE-CZ	8.53	1.42	1.33
3	H	317	ARG	CA-C	8.53	1.63	1.52
3	K	227	PHE	CA-C	-8.52	1.41	1.52
1	c	16	SER	CA-C	-8.52	1.42	1.52
1	E	180	ARG	CD-NE	8.51	1.58	1.46
3	M	59	ARG	CZ-NH2	8.50	1.44	1.33
2	3	122	ILE	CA-C	-8.48	1.41	1.52
1	G	86	ARG	C-N	8.48	1.44	1.33
3	I	216	ILE	N-CA	-8.46	1.36	1.46
2	1	80	ARG	NE-CZ	8.44	1.42	1.33
2	n	83	ARG	NE-CZ	8.43	1.42	1.33
1	E	235	ARG	NE-CZ	8.42	1.42	1.33
2	n	83	ARG	CD-NE	8.41	1.58	1.46
2	i	79	ILE	CA-C	8.40	1.63	1.52
1	A	235	ARG	NE-CZ	8.40	1.42	1.33
3	I	321	PHE	CA-C	-8.39	1.41	1.52
2	k	113	GLY	N-CA	-8.37	1.35	1.45
2	j	106	TYR	CA-C	-8.35	1.42	1.52
1	G	177	LYS	CA-C	-8.35	1.43	1.53
1	f	69	LYS	C-N	8.34	1.41	1.33
2	k	18	VAL	CA-CB	-8.34	1.44	1.54
1	A	219	ARG	NE-CZ	8.31	1.42	1.33
1	g	219	ARG	NE-CZ	8.30	1.42	1.33
2	4	81	ARG	NE-CZ	8.29	1.42	1.33
1	d	104	ASP	CA-CB	8.27	1.65	1.53
2	5	154	ARG	NE-CZ	8.25	1.42	1.33
3	L	374	ASP	C-O	-8.24	1.14	1.24
1	E	177	LYS	CA-C	-8.24	1.42	1.52
1	B	54	VAL	CA-CB	-8.23	1.47	1.55
1	D	151	ASP	CA-CB	8.23	1.64	1.53
3	L	265	MET	CA-C	-8.23	1.42	1.52
2	i	81	ARG	NE-CZ	8.22	1.42	1.33
3	I	196	ALA	N-CA	-8.20	1.36	1.46
1	A	70	ILE	CA-CB	-8.19	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	76	ARG	NE-CZ	8.19	1.42	1.33
2	1	151	LEU	C-N	8.17	1.45	1.33
3	L	372	MET	CA-C	-8.17	1.41	1.52
3	M	224	ARG	NE-CZ	8.13	1.42	1.33
1	g	48	LEU	CA-C	-8.13	1.43	1.52
2	l	154	ARG	C-N	8.13	1.44	1.33
3	J	380	GLU	CA-C	-8.13	1.42	1.52
1	b	100	ARG	CD-NE	8.13	1.57	1.46
2	5	126	ASP	C-N	8.13	1.41	1.33
1	G	219	ARG	CD-NE	8.12	1.57	1.46
3	J	259	ARG	NE-CZ	8.11	1.42	1.33
1	D	219	ARG	CD-NE	8.10	1.57	1.46
3	J	271	GLU	CA-C	-8.10	1.42	1.52
1	e	138	ILE	CA-C	-8.08	1.42	1.52
1	f	28	ARG	CD-NE	8.07	1.57	1.46
3	H	88	VAL	CA-CB	-8.06	1.44	1.54
1	g	234	GLU	N-CA	-8.06	1.36	1.46
2	2	102	ARG	CD-NE	8.06	1.57	1.46
1	C	125	GLN	CA-C	-8.05	1.42	1.52
3	L	77	VAL	CA-C	-8.05	1.43	1.52
3	J	363	ILE	C-N	8.05	1.44	1.33
2	l	104	PHE	CA-CB	8.04	1.64	1.53
3	M	374	ASP	CA-C	-8.04	1.42	1.52
2	2	98	LEU	CA-C	-8.03	1.42	1.52
3	L	164	PRO	CA-CB	8.02	1.62	1.53
3	L	207	VAL	CA-C	-8.02	1.43	1.52
2	4	51	ARG	NE-CZ	8.00	1.41	1.33
3	I	356	THR	CA-C	-8.00	1.42	1.52
3	L	275	PHE	CA-CB	8.00	1.66	1.53
1	C	191	LEU	CA-C	-7.97	1.42	1.52
1	D	42	CYS	CA-C	-7.97	1.43	1.52
2	l	82	GLU	C-N	7.96	1.43	1.33
1	f	130	ARG	NE-CZ	7.95	1.41	1.33
2	6	212	ARG	CZ-NH2	7.95	1.43	1.33
2	6	21	ASP	C-N	7.95	1.40	1.33
1	F	53	ARG	N-CA	-7.93	1.35	1.46
3	H	317	ARG	C-N	7.92	1.44	1.34
1	b	164	ILE	CA-C	-7.92	1.43	1.52
1	e	52	LYS	C-N	7.91	1.43	1.33
3	L	41	ARG	CZ-NH1	7.91	1.43	1.32
3	J	79	VAL	CA-C	-7.90	1.42	1.52
2	j	193	GLU	CA-CB	7.90	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	171	VAL	CA-CB	-7.89	1.44	1.54
1	c	130	ARG	CD-NE	7.89	1.57	1.46
2	j	145	LEU	C-N	7.89	1.44	1.33
1	G	185	PHE	N-CA	-7.88	1.36	1.46
1	D	10	ARG	CD-NE	7.88	1.57	1.46
3	M	167	PHE	N-CA	-7.88	1.37	1.46
3	L	195	VAL	N-CA	-7.87	1.37	1.46
1	a	150	THR	CA-C	-7.86	1.43	1.52
1	c	61	ALA	CA-C	-7.85	1.46	1.52
1	e	72	GLU	CA-CB	7.84	1.63	1.53
2	m	106	TYR	N-CA	-7.84	1.40	1.47
3	M	174	PRO	CA-C	-7.84	1.44	1.52
3	I	87	PHE	CA-C	-7.83	1.43	1.52
2	j	105	PRO	CA-C	-7.83	1.44	1.52
1	f	180	ARG	NE-CZ	7.83	1.41	1.33
2	j	101	TYR	N-CA	-7.83	1.37	1.46
1	f	109	VAL	CA-CB	-7.82	1.44	1.54
1	g	223	GLU	N-CA	-7.82	1.36	1.46
1	a	87	VAL	C-N	7.81	1.44	1.33
1	B	100	ARG	CD-NE	7.80	1.57	1.46
2	5	207	ILE	CA-CB	-7.80	1.45	1.54
1	c	168	ARG	NE-CZ	7.79	1.41	1.33
1	d	137	LEU	CA-C	-7.76	1.43	1.52
3	M	68	VAL	N-CA	-7.76	1.36	1.46
3	K	120	PRO	C-N	7.76	1.44	1.33
2	j	53	ALA	CA-C	-7.76	1.43	1.52
2	6	124	SER	CA-CB	7.75	1.64	1.53
2	2	157	PRO	N-CA	-7.73	1.38	1.47
3	L	364	ARG	CA-C	-7.73	1.42	1.52
1	B	11	ALA	CA-C	-7.72	1.42	1.52
1	F	49	ILE	CA-C	-7.71	1.42	1.52
1	C	39	GLY	CA-C	-7.70	1.45	1.52
2	1	51	ARG	CD-NE	7.69	1.57	1.46
2	i	101	TYR	CA-CB	7.69	1.63	1.53
2	n	43	LYS	C-N	7.69	1.44	1.33
2	k	33	MET	C-O	-7.68	1.15	1.23
3	J	317	ARG	C-N	7.68	1.43	1.33
3	I	28	ARG	NE-CZ	7.68	1.41	1.33
2	5	62	ASP	CA-C	-7.67	1.43	1.52
1	D	163	ALA	CA-C	-7.66	1.43	1.52
1	C	62	ASP	CA-C	-7.66	1.42	1.52
2	2	74	ALA	CA-C	-7.66	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	m	135	LYS	CA-CB	7.65	1.63	1.53
1	G	132	PHE	N-CA	-7.65	1.36	1.45
2	6	159	ILE	CA-C	-7.65	1.44	1.52
3	I	297	ILE	C-N	7.65	1.45	1.33
1	G	88	LEU	CA-C	-7.64	1.43	1.52
1	G	158	GLU	CA-CB	7.64	1.64	1.53
1	d	10	ARG	CD-NE	7.64	1.56	1.46
1	b	41	LYS	CA-C	-7.64	1.43	1.52
2	m	19	CYS	CA-C	-7.64	1.43	1.52
3	M	163	LYS	CA-C	-7.63	1.43	1.52
3	I	335	ASP	CA-C	-7.63	1.43	1.52
1	A	223	GLU	CA-C	-7.62	1.43	1.52
2	i	104	PHE	CA-CB	7.62	1.63	1.53
2	n	196	PHE	CA-C	-7.62	1.44	1.53
1	g	73	HIS	CB-CG	7.62	1.60	1.50
1	E	6	MET	CA-C	-7.61	1.43	1.52
3	J	76	ARG	CZ-NH2	7.61	1.43	1.33
1	D	28	ARG	NE-CZ	7.60	1.41	1.33
1	b	20	ARG	CZ-NH2	7.59	1.43	1.33
2	6	104	PHE	C-O	-7.58	1.17	1.24
1	c	10	ARG	CD-NE	7.58	1.56	1.46
1	G	18	ASP	CA-CB	7.57	1.66	1.53
2	h	105	PRO	CA-C	7.56	1.61	1.52
1	C	177	LYS	CA-C	-7.56	1.43	1.53
3	L	107	ALA	CA-C	-7.55	1.43	1.52
1	b	134	VAL	CA-C	-7.54	1.44	1.52
1	b	21	LEU	N-CA	7.54	1.54	1.45
1	G	172	THR	CA-C	-7.53	1.43	1.52
1	C	204	LEU	C-N	7.53	1.40	1.33
1	D	74	ILE	C-N	7.52	1.43	1.33
2	6	98	LEU	CA-C	-7.51	1.42	1.52
3	I	359	GLY	CA-C	-7.51	1.43	1.52
1	A	47	ILE	CA-CB	-7.50	1.45	1.54
1	A	156	LEU	N-CA	-7.50	1.37	1.46
3	M	305	ARG	CD-NE	7.50	1.56	1.46
3	K	236	SER	N-CA	-7.49	1.36	1.46
1	B	132	PHE	CA-C	-7.49	1.43	1.53
3	L	278	ARG	NE-CZ	7.49	1.41	1.33
3	H	19	ASP	N-CA	-7.48	1.37	1.46
3	J	278	ARG	CZ-NH1	7.48	1.43	1.32
1	f	204	LEU	C-N	7.48	1.41	1.33
2	i	30	ARG	CD-NE	7.48	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1	68	ARG	CA-C	-7.47	1.43	1.52
2	1	159	ILE	CA-CB	-7.47	1.46	1.54
2	7	23	VAL	CA-C	-7.46	1.43	1.52
3	H	49	ARG	NE-CZ	7.46	1.41	1.33
3	I	335	ASP	CA-CB	7.46	1.64	1.53
2	7	190	LYS	CA-C	-7.46	1.43	1.52
2	n	139	ALA	N-CA	-7.46	1.36	1.46
3	I	190	LEU	CA-CB	7.46	1.66	1.53
1	E	38	ILE	N-CA	-7.45	1.37	1.46
2	4	195	GLU	CA-C	-7.44	1.43	1.52
1	c	19	GLY	CA-C	-7.44	1.44	1.52
3	L	63	LEU	N-CA	-7.44	1.37	1.46
3	M	200	ARG	NE-CZ	7.43	1.41	1.33
1	F	15	PHE	C-N	7.43	1.43	1.32
1	b	236	ALA	N-CA	-7.43	1.36	1.46
3	J	156	ALA	CA-C	-7.42	1.42	1.52
2	2	129	GLY	CA-C	7.42	1.59	1.51
1	d	39	GLY	CA-C	-7.42	1.45	1.51
2	l	36	PHE	C-N	7.42	1.43	1.33
1	c	125	GLN	CA-C	-7.41	1.42	1.52
1	B	133	GLY	CA-C	-7.40	1.44	1.51
2	j	123	TYR	N-CA	7.40	1.54	1.45
2	k	48	ILE	N-CA	-7.39	1.37	1.46
3	M	199	THR	C-N	7.39	1.44	1.33
1	f	190	VAL	CA-CB	-7.38	1.44	1.54
3	M	17	GLU	C-N	7.38	1.43	1.33
3	M	19	ASP	N-CA	7.38	1.55	1.46
1	G	125	GLN	CA-CB	7.38	1.65	1.53
1	C	112	LEU	N-CA	-7.37	1.37	1.46
2	k	81	ARG	NE-CZ	7.37	1.41	1.33
2	6	81	ARG	CD-NE	7.37	1.56	1.46
3	J	92	SER	C-N	7.37	1.44	1.33
1	B	199	SER	CA-C	-7.37	1.43	1.52
2	n	83	ARG	N-CA	-7.37	1.36	1.45
3	K	281	VAL	N-CA	-7.36	1.36	1.46
3	I	335	ASP	N-CA	-7.36	1.37	1.46
3	M	340	ALA	C-N	7.36	1.43	1.33
2	3	100	SER	C-N	7.35	1.41	1.33
1	a	19	GLY	CA-C	-7.35	1.41	1.51
3	L	150	ILE	CA-C	-7.34	1.43	1.52
1	f	53	ARG	CD-NE	7.34	1.56	1.46
2	i	78	GLU	CA-CB	7.32	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	151	GLU	CA-CB	7.32	1.65	1.53
3	H	151	GLU	N-CA	-7.32	1.36	1.46
2	m	17	LEU	N-CA	-7.32	1.37	1.46
3	I	259	ARG	NE-CZ	7.32	1.41	1.33
1	a	140	GLY	CA-C	-7.31	1.43	1.51
1	G	6	MET	C-N	7.30	1.43	1.33
1	c	76	ALA	CA-C	-7.29	1.43	1.52
2	m	28	GLU	CA-C	-7.29	1.44	1.52
3	I	77	VAL	N-CA	-7.29	1.37	1.46
3	M	302	ARG	NE-CZ	7.29	1.41	1.33
3	K	324	HIS	ND1-CE1	7.28	1.39	1.32
1	f	166	MET	N-CA	-7.28	1.36	1.46
1	c	162	THR	C-N	-7.28	1.24	1.33
1	c	222	LYS	C-N	7.27	1.43	1.33
1	C	199	SER	C-O	-7.27	1.15	1.24
1	F	11	ALA	C-N	7.27	1.41	1.34
1	E	40	ILE	CA-CB	-7.26	1.45	1.54
3	K	348	GLY	CA-C	7.25	1.60	1.51
1	c	45	GLY	CA-C	-7.24	1.42	1.52
1	E	168	ARG	NE-CZ	7.24	1.41	1.33
1	e	225	SER	CA-CB	7.24	1.64	1.53
3	K	259	ARG	CD-NE	7.24	1.56	1.46
2	k	202	GLU	N-CA	-7.24	1.37	1.46
3	J	221	ARG	CD-NE	7.24	1.56	1.46
1	f	232	TYR	CA-CB	7.23	1.64	1.53
3	J	305	ARG	CZ-NH2	7.23	1.42	1.33
3	H	88	VAL	N-CA	-7.23	1.37	1.46
1	c	71	ASP	CA-C	7.22	1.61	1.52
3	I	324	HIS	ND1-CE1	7.22	1.39	1.32
1	D	180	ARG	NE-CZ	7.21	1.41	1.33
1	G	100	ARG	NE-CZ	7.21	1.41	1.33
2	7	150	VAL	CA-C	-7.21	1.44	1.52
3	M	310	PRO	N-CA	-7.20	1.40	1.46
1	E	120	LYS	N-CA	-7.20	1.37	1.46
2	m	113	GLY	CA-C	7.20	1.59	1.51
3	M	259	ARG	CD-NE	7.20	1.56	1.46
3	H	317	ARG	N-CA	-7.19	1.37	1.46
3	J	265	MET	CA-C	-7.19	1.43	1.52
1	f	85	ALA	N-CA	-7.19	1.37	1.46
3	K	305	ARG	NE-CZ	7.19	1.41	1.33
3	K	322	LYS	CA-C	-7.18	1.43	1.52
2	6	203	GLU	N-CA	7.17	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	69	LYS	C-N	7.17	1.39	1.33
3	I	379	ILE	CA-C	-7.17	1.43	1.52
1	G	71	ASP	CA-C	-7.17	1.43	1.52
2	4	154	ARG	NE-CZ	7.17	1.41	1.33
3	L	341	ARG	CD-NE	7.16	1.56	1.46
3	J	66	GLY	C-N	7.16	1.42	1.33
1	B	40	ILE	CA-C	-7.16	1.43	1.52
1	e	67	ILE	CA-CB	-7.16	1.45	1.54
2	1	170	ARG	NE-CZ	7.16	1.41	1.33
3	H	242	GLU	C-N	7.16	1.41	1.33
1	A	46	VAL	N-CA	-7.15	1.37	1.46
3	H	140	TYR	CA-C	-7.14	1.42	1.52
2	k	69	ILE	CA-C	-7.14	1.44	1.52
2	n	135	LYS	CA-C	-7.14	1.43	1.52
2	1	46	TYR	CA-C	-7.14	1.43	1.52
1	A	206	PRO	CA-C	-7.14	1.44	1.52
1	D	90	ASP	CA-CB	7.13	1.64	1.53
3	K	200	ARG	NE-CZ	7.12	1.40	1.33
2	2	167	LEU	CA-C	-7.12	1.43	1.52
1	C	103	TYR	CA-C	-7.12	1.42	1.52
2	4	26	ALA	C-N	7.11	1.42	1.33
1	f	180	ARG	CZ-NH2	7.11	1.42	1.33
3	K	308	GLU	CA-CB	7.11	1.63	1.53
1	B	53	ARG	NE-CZ	7.11	1.40	1.33
1	a	217	ASP	N-CA	-7.11	1.36	1.46
2	2	186	ILE	CA-C	-7.11	1.45	1.52
2	4	92	THR	C-N	7.11	1.43	1.33
1	e	31	VAL	CA-C	-7.10	1.43	1.52
2	m	92	THR	CA-C	-7.10	1.43	1.52
2	h	117	SER	CA-CB	7.10	1.65	1.53
3	K	387	THR	CA-CB	7.10	1.60	1.53
3	M	310	PRO	CA-C	-7.10	1.46	1.53
1	A	218	ASP	C-N	7.08	1.43	1.33
2	7	136	ASP	CA-CB	7.08	1.65	1.53
2	6	129	GLY	CA-C	-7.08	1.44	1.52
3	K	341	ARG	C-N	7.08	1.43	1.33
1	A	196	MET	CA-CB	7.08	1.64	1.53
1	d	37	ALA	N-CA	-7.07	1.37	1.45
3	L	77	VAL	N-CA	-7.07	1.38	1.46
3	J	118	VAL	N-CA	-7.07	1.38	1.46
1	C	180	ARG	N-CA	-7.07	1.37	1.46
2	h	66	LEU	N-CA	-7.06	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	190	VAL	CA-CB	-7.06	1.45	1.54
1	F	94	ILE	CA-C	-7.05	1.44	1.52
2	3	199	TYR	CA-C	-7.05	1.43	1.53
1	F	30	ALA	N-CA	-7.05	1.37	1.46
1	D	209	ILE	CA-C	-7.04	1.44	1.52
1	e	53	ARG	CZ-NH1	7.04	1.42	1.32
2	n	173	TYR	CA-C	7.04	1.62	1.52
1	b	130	ARG	CZ-NH2	7.04	1.42	1.33
1	c	180	ARG	CD-NE	7.04	1.56	1.46
3	K	83	THR	CA-C	-7.04	1.43	1.52
2	m	212	ARG	CA-C	-7.04	1.43	1.52
3	L	259	ARG	N-CA	-7.04	1.37	1.46
2	5	15	VAL	CA-C	-7.03	1.44	1.52
3	J	37	ILE	C-N	7.03	1.43	1.33
1	B	119	PHE	C-O	-7.03	1.15	1.24
1	c	146	LYS	CA-C	-7.02	1.44	1.52
3	J	60	SER	CA-C	-7.02	1.46	1.53
3	H	57	ARG	N-CA	-7.02	1.38	1.46
3	M	90	ASN	C-N	7.02	1.44	1.34
3	I	294	ASP	C-N	7.02	1.39	1.33
1	a	145	PRO	CA-C	-7.01	1.44	1.52
1	b	205	VAL	CA-C	-7.01	1.46	1.52
1	c	245	LYS	N-CA	-7.01	1.40	1.46
3	L	346	ALA	CA-C	-7.01	1.44	1.52
2	2	15	VAL	CA-C	-7.01	1.44	1.52
1	G	68	TYR	N-CA	-7.01	1.37	1.46
3	H	194	ALA	C-N	7.01	1.42	1.34
3	L	342	ILE	N-CA	-7.00	1.38	1.46
2	k	181	ALA	N-CA	-7.00	1.41	1.47
3	J	31	GLU	C-N	6.99	1.43	1.33
1	d	167	GLY	C-N	6.99	1.42	1.33
1	F	245	LYS	CA-C	-6.99	1.44	1.52
1	C	130	ARG	CD-NE	6.99	1.56	1.46
2	2	21	ASP	N-CA	-6.99	1.37	1.46
2	i	49	ALA	C-N	6.99	1.43	1.34
3	L	124	ASP	C-N	6.99	1.42	1.33
1	b	146	LYS	C-N	6.98	1.42	1.33
2	5	187	ASP	N-CA	6.98	1.54	1.45
3	I	163	LYS	N-CA	-6.98	1.39	1.46
1	C	130	ARG	C-N	6.98	1.42	1.33
3	M	380	GLU	CA-C	-6.98	1.44	1.52
1	a	88	LEU	N-CA	-6.97	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	h	152	GLU	C-N	6.97	1.43	1.33
1	B	30	ALA	N-CA	-6.97	1.37	1.46
2	1	194	ASP	C-N	6.97	1.42	1.33
2	k	37	ILE	CA-C	-6.97	1.44	1.52
3	K	157	VAL	CA-C	-6.97	1.43	1.53
1	B	81	LEU	C-N	6.96	1.41	1.34
2	4	108	VAL	CA-CB	-6.96	1.47	1.55
2	2	108	VAL	CA-C	-6.96	1.44	1.52
2	2	43	LYS	N-CA	-6.96	1.36	1.46
2	j	120	LYS	CA-C	-6.96	1.44	1.52
1	b	63	THR	C-N	6.96	1.42	1.33
2	7	59	SER	CA-C	-6.96	1.44	1.52
1	A	203	GLU	CA-C	-6.96	1.43	1.52
1	a	141	VAL	CA-CB	-6.95	1.45	1.54
2	3	71	LYS	C-N	6.95	1.42	1.33
1	b	156	LEU	CA-C	-6.95	1.44	1.52
2	k	92	THR	CA-C	-6.94	1.44	1.52
1	d	23	GLN	N-CA	-6.94	1.37	1.46
2	k	125	ILE	CA-C	-6.94	1.44	1.52
1	b	45	GLY	N-CA	6.94	1.51	1.45
1	d	241	ARG	NE-CZ	6.93	1.40	1.33
2	6	182	SER	CA-C	-6.93	1.43	1.52
3	L	308	GLU	N-CA	-6.93	1.37	1.46
2	5	80	ARG	CD-NE	6.92	1.55	1.46
1	a	194	VAL	CA-C	-6.92	1.43	1.52
1	F	89	ILE	N-CA	-6.92	1.37	1.46
3	I	166	LEU	CA-C	-6.92	1.43	1.52
3	K	367	ARG	CA-CB	6.92	1.65	1.54
3	I	79	VAL	C-N	6.92	1.43	1.33
2	h	170	ARG	CD-NE	6.91	1.55	1.46
3	K	80	LYS	CA-C	-6.91	1.44	1.52
3	J	113	LEU	CA-C	-6.91	1.43	1.52
1	c	87	VAL	N-CA	-6.90	1.38	1.46
1	F	93	ARG	NE-CZ	6.90	1.40	1.33
2	m	43	LYS	N-CA	-6.90	1.37	1.46
2	3	187	ASP	CA-C	-6.89	1.44	1.52
2	1	158	GLU	N-CA	-6.89	1.38	1.46
2	k	88	ARG	CD-NE	6.88	1.55	1.46
3	K	386	THR	CA-CB	6.88	1.65	1.53
1	a	75	CYS	N-CA	-6.87	1.37	1.45
2	h	102	ARG	NE-CZ	6.87	1.40	1.33
2	j	212	ARG	C-N	6.87	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	229	LEU	CA-C	-6.87	1.43	1.52
2	j	41	ALA	CA-C	-6.87	1.43	1.52
2	6	51	ARG	C-N	6.86	1.43	1.33
1	d	86	ARG	NE-CZ	6.86	1.40	1.33
2	1	68	ARG	CD-NE	6.86	1.55	1.46
1	b	25	GLU	N-CA	-6.85	1.38	1.46
3	H	155	GLU	C-N	6.85	1.43	1.33
1	G	91	ARG	CD-NE	6.85	1.55	1.46
1	D	22	PHE	CA-CB	6.84	1.65	1.53
1	d	205	VAL	CA-CB	6.84	1.62	1.54
3	K	205	ARG	NE-CZ	6.84	1.40	1.33
1	f	52	LYS	CA-CB	6.83	1.64	1.53
1	B	166	MET	CA-C	-6.83	1.43	1.52
2	m	170	ARG	NE-CZ	6.83	1.40	1.33
1	B	211	VAL	C-N	6.83	1.43	1.33
2	4	190	LYS	CA-CB	6.83	1.66	1.53
1	G	212	GLY	CA-C	-6.83	1.46	1.52
1	c	182	ASP	N-CA	-6.82	1.37	1.46
3	J	361	PHE	CA-C	-6.82	1.44	1.52
3	H	324	HIS	CG-CD2	6.82	1.43	1.35
1	A	33	ARG	NE-CZ	6.82	1.40	1.33
2	3	88	ARG	CD-NE	6.82	1.55	1.46
3	I	24	ARG	CD-NE	6.82	1.55	1.46
3	J	57	ARG	CA-CB	6.82	1.64	1.53
1	e	239	ARG	CD-NE	6.81	1.55	1.46
3	L	263	ARG	CD-NE	6.81	1.55	1.46
2	h	37	ILE	N-CA	-6.81	1.37	1.46
2	h	114	GLY	C-N	6.81	1.43	1.33
2	2	204	VAL	CA-CB	-6.81	1.46	1.54
3	M	43	ARG	NE-CZ	6.81	1.40	1.33
1	G	130	ARG	NE-CZ	6.81	1.40	1.33
1	f	73	HIS	ND1-CE1	6.80	1.39	1.32
1	C	6	MET	N-CA	-6.80	1.37	1.46
3	K	341	ARG	CD-NE	6.80	1.55	1.46
3	L	179	LEU	N-CA	-6.80	1.37	1.46
1	B	13	THR	C-N	6.79	1.44	1.33
1	d	68	TYR	CA-CB	6.79	1.64	1.53
1	C	51	ASP	N-CA	6.79	1.54	1.46
3	J	29	ARG	NE-CZ	6.79	1.40	1.33
3	H	312	PRO	C-N	6.78	1.43	1.33
1	E	193	LEU	C-N	6.78	1.42	1.33
1	F	92	ALA	CA-C	-6.78	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	83	ALA	CA-CB	6.78	1.63	1.53
2	i	134	GLU	N-CA	-6.78	1.37	1.46
1	C	245	LYS	CA-C	-6.77	1.43	1.52
1	G	86	ARG	N-CA	6.77	1.54	1.46
1	E	10	ARG	CD-NE	6.77	1.55	1.46
2	k	159	ILE	CA-CB	6.77	1.61	1.54
2	m	56	THR	N-CA	-6.77	1.37	1.45
2	1	89	ALA	N-CA	-6.77	1.38	1.46
1	C	91	ARG	NE-CZ	6.76	1.40	1.33
3	K	41	ARG	NE-CZ	6.76	1.40	1.33
2	k	160	GLY	CA-C	-6.76	1.40	1.52
2	k	109	GLN	CA-C	-6.76	1.44	1.52
3	H	302	ARG	CD-NE	6.76	1.55	1.46
1	d	133	GLY	CA-C	-6.76	1.42	1.51
2	3	83	ARG	NE-CZ	6.76	1.40	1.33
1	B	130	ARG	C-N	6.76	1.41	1.33
2	6	61	GLY	CA-C	-6.75	1.44	1.52
3	K	274	GLY	C-N	6.75	1.43	1.33
2	1	166	GLU	N-CA	-6.75	1.38	1.46
2	k	161	VAL	C-N	6.75	1.43	1.34
3	I	115	ILE	CA-CB	-6.75	1.46	1.53
2	4	62	ASP	CA-C	-6.75	1.44	1.52
3	L	121	THR	CA-C	-6.75	1.43	1.53
1	a	151	ASP	CA-C	-6.74	1.44	1.52
3	H	107	ALA	N-CA	-6.74	1.37	1.46
1	b	21	LEU	CA-C	-6.74	1.43	1.53
1	D	127	GLY	N-CA	-6.74	1.37	1.45
2	l	70	ILE	CA-CB	6.73	1.62	1.54
3	K	50	ARG	NE-CZ	6.73	1.40	1.33
2	2	122	ILE	N-CA	-6.73	1.38	1.46
3	H	207	VAL	N-CA	-6.73	1.38	1.46
1	D	241	ARG	NE-CZ	6.72	1.40	1.33
3	K	20	TYR	CA-CB	6.72	1.64	1.53
2	i	126	ASP	CA-CB	6.72	1.63	1.53
1	C	195	ALA	CA-CB	6.72	1.63	1.53
2	i	108	VAL	CA-C	-6.72	1.44	1.52
3	H	296	ALA	CA-CB	6.72	1.63	1.53
2	i	212	ARG	CD-NE	6.72	1.55	1.46
2	1	138	VAL	CA-CB	-6.71	1.48	1.55
1	B	91	ARG	CA-CB	6.71	1.63	1.53
1	f	245	LYS	CA-C	-6.71	1.43	1.52
2	n	51	ARG	CA-C	-6.71	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	170	ARG	NE-CZ	6.70	1.40	1.33
2	m	57	ALA	C-N	6.70	1.39	1.33
2	5	120	LYS	CA-C	-6.69	1.44	1.52
1	A	189	MET	CA-C	-6.69	1.44	1.52
3	M	201	ALA	C-O	-6.69	1.16	1.24
3	I	76	ARG	CA-C	-6.69	1.44	1.52
2	2	116	ASP	N-CA	-6.69	1.38	1.46
1	G	37	ALA	CA-C	-6.69	1.44	1.52
2	5	114	GLY	N-CA	6.69	1.53	1.45
3	K	199	THR	C-N	6.68	1.42	1.33
2	7	112	ILE	N-CA	-6.68	1.37	1.46
3	K	302	ARG	NE-CZ	6.68	1.40	1.33
1	E	31	VAL	CA-C	-6.68	1.44	1.52
3	L	364	ARG	C-N	6.67	1.43	1.33
1	E	20	ARG	NE-CZ	6.67	1.40	1.33
1	f	91	ARG	NE-CZ	6.67	1.40	1.33
1	b	226	PRO	N-CD	-6.67	1.38	1.47
2	1	30	ARG	CA-CB	6.67	1.65	1.53
3	M	52	ARG	CD-NE	6.66	1.55	1.46
3	L	211	PHE	CA-C	6.66	1.61	1.52
3	H	282	LYS	CA-C	-6.66	1.39	1.52
1	b	239	ARG	N-CA	-6.66	1.37	1.46
1	E	223	GLU	CA-C	-6.65	1.44	1.52
3	L	41	ARG	CA-C	-6.65	1.43	1.52
3	J	323	ILE	N-CA	-6.65	1.38	1.46
3	K	52	ARG	NE-CZ	6.65	1.40	1.33
3	M	131	GLU	N-CA	-6.65	1.38	1.45
3	J	101	LYS	N-CA	-6.64	1.39	1.46
1	F	134	VAL	CA-C	6.64	1.60	1.52
2	h	108	VAL	CA-C	-6.64	1.44	1.52
2	m	159	ILE	CA-CB	-6.64	1.47	1.54
3	I	263	ARG	NE-CZ	6.63	1.40	1.33
1	C	212	GLY	N-CA	-6.63	1.38	1.45
1	d	93	ARG	NE-CZ	6.63	1.40	1.33
3	M	222	LEU	CA-C	-6.63	1.43	1.52
3	H	76	ARG	CA-C	-6.63	1.44	1.52
3	I	65	VAL	CA-C	6.63	1.60	1.52
3	I	201	ALA	CA-C	-6.63	1.46	1.53
1	B	169	ASN	CA-CB	6.62	1.63	1.53
1	E	242	GLU	C-N	6.62	1.43	1.34
1	G	240	ILE	CA-C	-6.62	1.44	1.52
3	J	85	PRO	N-CA	-6.62	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	122	GLN	C-N	6.62	1.43	1.33
1	F	91	ARG	CA-C	-6.62	1.44	1.52
1	E	18	ASP	CA-C	-6.62	1.44	1.52
2	i	103	TYR	CA-C	-6.62	1.44	1.52
1	E	208	ASN	N-CA	-6.61	1.39	1.46
3	L	364	ARG	CD-NE	6.61	1.55	1.46
3	J	277	PRO	C-N	6.61	1.43	1.33
1	D	102	THR	CA-C	-6.61	1.44	1.52
1	b	32	LYS	N-CA	-6.61	1.38	1.46
2	n	170	ARG	NE-CZ	6.61	1.40	1.33
3	H	358	ALA	CA-CB	6.61	1.63	1.53
2	h	51	ARG	C-N	6.60	1.43	1.33
1	D	239	ARG	CD-NE	6.60	1.55	1.46
1	g	146	LYS	N-CA	-6.59	1.37	1.45
3	H	176	LYS	CA-C	-6.59	1.43	1.52
1	b	219	ARG	CZ-NH1	6.59	1.42	1.32
2	i	127	PRO	CA-CB	6.59	1.64	1.53
2	j	35	ASN	N-CA	-6.59	1.38	1.46
2	j	91	ALA	N-CA	-6.59	1.38	1.46
2	k	32	THR	CA-C	-6.59	1.44	1.52
2	h	131	ALA	CA-C	-6.59	1.44	1.52
2	j	50	ASP	CA-C	-6.59	1.43	1.52
2	h	83	ARG	NE-CZ	6.59	1.40	1.33
2	j	48	ILE	CA-C	-6.59	1.44	1.52
2	7	170	ARG	NE-CZ	6.59	1.40	1.33
3	L	299	ARG	CZ-NH2	6.59	1.42	1.33
3	H	97	GLU	N-CA	-6.58	1.37	1.46
3	I	298	LEU	CA-C	6.58	1.61	1.52
1	a	44	GLU	CA-C	-6.58	1.44	1.52
1	B	47	ILE	CA-C	-6.58	1.44	1.52
1	c	205	VAL	CA-CB	6.58	1.59	1.54
1	F	214	VAL	N-CA	-6.58	1.38	1.46
2	7	68	ARG	NE-CZ	6.57	1.40	1.33
1	d	81	LEU	CA-CB	6.57	1.64	1.53
1	G	210	GLU	C-N	6.57	1.42	1.33
2	7	150	VAL	C-N	6.57	1.42	1.33
1	f	70	ILE	CA-CB	-6.57	1.47	1.54
3	J	13	LEU	C-N	6.56	1.42	1.34
3	J	46	ARG	CD-NE	6.56	1.55	1.46
2	i	49	ALA	CA-C	-6.56	1.44	1.52
1	e	208	ASN	CA-C	-6.56	1.43	1.52
2	m	17	LEU	CA-C	-6.56	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	i	144	SER	N-CA	-6.56	1.38	1.46
2	i	108	VAL	C-N	6.55	1.43	1.33
3	L	96	ASN	CA-C	-6.55	1.44	1.53
3	L	154	ARG	NE-CZ	6.55	1.40	1.33
3	L	380	GLU	C-N	6.55	1.42	1.33
1	b	130	ARG	CA-CB	6.55	1.62	1.54
3	K	105	ARG	CD-NE	6.55	1.55	1.46
1	c	91	ARG	NE-CZ	6.55	1.40	1.33
2	1	159	ILE	N-CA	-6.55	1.38	1.46
2	4	129	GLY	N-CA	-6.54	1.35	1.45
3	H	22	LYS	N-CA	-6.54	1.38	1.46
1	c	198	LEU	C-N	6.54	1.42	1.33
1	g	47	ILE	C-N	6.54	1.41	1.33
2	j	155	PHE	C-N	6.54	1.41	1.33
2	k	146	THR	C-N	6.54	1.42	1.33
2	i	161	VAL	C-N	6.54	1.42	1.33
2	n	152	GLU	CA-C	-6.54	1.43	1.52
1	G	147	LEU	N-CA	-6.54	1.38	1.46
2	i	178	ARG	CD-NE	6.54	1.55	1.46
2	j	131	ALA	C-N	6.54	1.41	1.33
2	2	35	ASN	CA-CB	6.54	1.62	1.53
2	3	17	LEU	CA-C	-6.54	1.44	1.52
2	2	107	LEU	C-N	-6.53	1.27	1.33
2	5	135	LYS	CA-CB	6.53	1.63	1.53
1	d	197	GLY	C-N	6.53	1.42	1.33
3	I	302	ARG	NE-CZ	6.53	1.40	1.33
3	M	222	LEU	C-N	6.53	1.42	1.33
1	f	198	LEU	CA-C	-6.53	1.44	1.52
2	2	194	ASP	CA-C	-6.53	1.44	1.52
2	6	196	PHE	C-N	6.53	1.42	1.33
1	b	35	ALA	CA-C	6.52	1.61	1.52
1	C	87	VAL	C-O	-6.52	1.16	1.24
1	g	28	ARG	CD-NE	6.52	1.55	1.46
2	n	185	GLY	C-N	6.52	1.42	1.33
3	L	350	ASP	CA-CB	6.52	1.63	1.53
3	L	188	LYS	CA-CB	6.52	1.64	1.53
2	k	208	LEU	N-CA	-6.52	1.37	1.46
2	5	88	ARG	CZ-NH1	6.52	1.41	1.32
3	K	237	ILE	C-N	6.52	1.41	1.33
3	H	105	ARG	NE-CZ	6.51	1.40	1.33
3	H	200	ARG	CD-NE	6.51	1.55	1.46
1	c	239	ARG	CA-CB	6.51	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	10	ARG	NE-CZ	6.51	1.40	1.33
3	H	337	LYS	CA-C	-6.51	1.44	1.52
2	3	180	SER	C-N	6.51	1.42	1.33
2	5	126	ASP	CA-CB	6.51	1.62	1.54
3	H	378	ALA	CA-C	-6.51	1.44	1.52
1	C	186	ASP	CA-CB	6.50	1.63	1.53
3	M	283	VAL	CA-C	-6.50	1.45	1.52
1	A	122	GLN	C-N	6.50	1.43	1.33
1	a	229	LEU	N-CA	-6.50	1.38	1.46
2	l	88	ARG	NE-CZ	6.50	1.40	1.33
2	j	178	ARG	NE-CZ	6.50	1.40	1.33
3	H	198	GLN	CA-CB	-6.50	1.44	1.54
3	M	326	ARG	CA-C	-6.50	1.44	1.52
1	A	96	ALA	CA-C	-6.49	1.44	1.52
2	1	93	LEU	CA-CB	6.49	1.63	1.53
1	G	28	ARG	CD-NE	6.49	1.55	1.46
2	6	92	THR	CA-CB	6.49	1.63	1.53
3	M	13	LEU	CA-C	-6.49	1.44	1.52
1	B	110	LYS	N-CA	-6.49	1.38	1.46
1	G	121	GLN	N-CA	-6.49	1.37	1.46
1	B	72	GLU	CA-C	-6.48	1.44	1.52
2	7	209	ALA	CA-C	-6.48	1.43	1.52
3	J	170	VAL	C-O	-6.48	1.17	1.24
2	k	113	GLY	CA-C	-6.48	1.44	1.51
1	E	81	LEU	CA-C	-6.48	1.43	1.52
2	n	88	ARG	NE-CZ	6.48	1.40	1.33
1	F	21	LEU	C-N	6.47	1.42	1.33
2	i	31	ALA	CA-C	-6.47	1.44	1.52
3	K	94	TYR	CA-C	-6.47	1.44	1.52
3	K	248	ALA	CA-C	-6.47	1.45	1.53
1	c	91	ARG	CZ-NH1	6.47	1.41	1.32
2	3	26	ALA	N-CA	6.47	1.54	1.45
2	4	41	ALA	N-CA	-6.47	1.38	1.46
1	D	172	THR	N-CA	-6.47	1.38	1.46
3	H	140	TYR	C-N	6.47	1.43	1.33
2	k	49	ALA	N-CA	6.46	1.54	1.46
2	k	209	ALA	N-CA	-6.46	1.38	1.46
1	e	239	ARG	CA-C	6.46	1.61	1.52
2	3	102	ARG	NE-CZ	6.46	1.40	1.33
2	k	124	SER	C-N	6.46	1.41	1.33
2	5	99	ASN	CA-C	-6.46	1.43	1.52
3	H	100	LEU	CA-C	-6.46	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	5	104	PHE	CA-C	-6.46	1.46	1.52
1	c	164	ILE	CA-C	-6.46	1.44	1.52
1	a	147	LEU	CA-C	-6.45	1.45	1.52
1	e	203	GLU	CA-CB	6.45	1.63	1.53
2	3	182	SER	C-N	6.45	1.43	1.33
2	4	68	ARG	NE-CZ	6.45	1.40	1.33
3	H	44	TYR	C-N	6.45	1.42	1.33
3	L	224	ARG	CD-NE	6.45	1.55	1.46
2	k	107	LEU	N-CA	-6.45	1.38	1.46
3	H	350	ASP	CA-C	-6.44	1.44	1.52
2	k	30	ARG	NE-CZ	6.44	1.40	1.33
3	K	243	LEU	N-CA	-6.44	1.38	1.46
3	M	283	VAL	C-O	-6.44	1.17	1.24
3	I	224	ARG	CZ-NH2	6.44	1.41	1.33
1	F	12	ILE	N-CA	-6.43	1.38	1.46
3	H	76	ARG	NE-CZ	6.43	1.40	1.33
3	H	324	HIS	CA-CB	-6.43	1.43	1.53
2	n	103	TYR	CA-CB	6.43	1.64	1.53
2	k	154	ARG	CD-NE	6.43	1.55	1.46
3	M	275	PHE	C-N	6.43	1.39	1.33
1	b	62	ASP	N-CA	6.42	1.52	1.46
2	m	128	ILE	CA-C	-6.42	1.45	1.53
1	c	18	ASP	CA-CB	6.42	1.64	1.53
1	d	36	THR	N-CA	-6.42	1.38	1.45
2	m	178	ARG	CD-NE	6.42	1.55	1.46
2	4	110	LEU	CA-C	-6.42	1.45	1.52
1	C	235	ARG	CA-CB	6.42	1.63	1.53
2	m	56	THR	CA-C	-6.41	1.44	1.52
1	c	219	ARG	NE-CZ	6.41	1.40	1.33
3	K	12	LYS	CA-CB	6.41	1.63	1.53
3	M	49	ARG	N-CA	-6.41	1.38	1.46
3	K	382	VAL	CA-C	-6.41	1.44	1.52
3	J	28	ARG	CD-NE	6.41	1.55	1.46
1	A	235	ARG	C-N	6.41	1.42	1.33
1	C	190	VAL	CA-C	6.41	1.60	1.52
3	J	150	ILE	C-N	6.40	1.42	1.33
1	d	224	VAL	N-CA	-6.40	1.38	1.46
2	5	177	LYS	CA-C	-6.40	1.44	1.52
2	6	92	THR	CA-C	-6.40	1.44	1.52
2	7	57	ALA	CA-C	-6.40	1.44	1.52
1	f	74	ILE	C-N	6.40	1.42	1.33
1	f	219	ARG	CA-C	-6.40	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	242	GLU	CA-C	-6.40	1.44	1.52
2	7	126	ASP	C-O	-6.40	1.18	1.24
3	M	330	LEU	C-N	6.40	1.42	1.33
1	A	163	ALA	CA-C	-6.40	1.44	1.52
1	B	53	ARG	CD-NE	6.40	1.55	1.46
1	C	31	VAL	CA-CB	-6.39	1.46	1.54
3	K	289	ARG	CA-C	-6.39	1.44	1.52
1	E	235	ARG	CZ-NH1	6.39	1.41	1.32
3	M	224	ARG	N-CA	-6.39	1.38	1.46
1	F	129	VAL	N-CA	-6.39	1.38	1.46
1	d	71	ASP	CA-C	-6.38	1.44	1.52
2	6	41	ALA	CA-C	-6.38	1.45	1.52
2	l	176	MET	N-CA	-6.38	1.38	1.46
1	D	161	ALA	CA-C	-6.38	1.44	1.52
2	1	21	ASP	N-CA	-6.37	1.38	1.46
1	D	87	VAL	N-CA	-6.37	1.38	1.46
1	B	10	ARG	NE-CZ	6.37	1.40	1.33
1	G	126	TYR	CA-C	-6.37	1.44	1.52
1	b	124	THR	C-N	6.36	1.42	1.33
2	m	51	ARG	NE-CZ	6.36	1.40	1.33
2	l	201	PRO	N-CA	-6.36	1.39	1.47
2	2	37	ILE	CA-CB	6.36	1.61	1.54
1	a	185	PHE	N-CA	-6.35	1.38	1.46
2	h	144	SER	C-N	6.35	1.42	1.33
1	B	93	ARG	N-CA	6.35	1.54	1.46
1	f	80	GLY	CA-C	-6.35	1.44	1.52
1	f	106	PRO	C-N	6.34	1.41	1.33
1	G	141	VAL	N-CA	-6.34	1.37	1.46
2	7	134	GLU	CA-C	-6.34	1.44	1.52
1	d	57	LYS	C-O	-6.34	1.16	1.24
1	G	37	ALA	C-N	6.34	1.42	1.33
2	1	75	ASN	N-CA	-6.34	1.38	1.46
2	i	196	PHE	CA-C	-6.34	1.45	1.53
2	6	104	PHE	CA-CB	6.34	1.61	1.53
3	K	45	GLU	CA-C	-6.34	1.44	1.52
3	J	115	ILE	CA-C	-6.34	1.45	1.52
1	F	232	TYR	C-N	6.33	1.41	1.33
2	4	119	GLY	CA-C	-6.33	1.43	1.51
3	I	142	ASP	CA-C	-6.33	1.45	1.53
1	F	88	LEU	CA-C	-6.33	1.44	1.52
3	M	59	ARG	CD-NE	6.33	1.55	1.46
2	7	92	THR	CA-C	-6.33	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6	157	PRO	CA-C	-6.32	1.46	1.52
3	J	41	ARG	CD-NE	6.32	1.55	1.46
1	A	231	PRO	C-O	-6.32	1.16	1.24
1	G	76	ALA	CA-C	-6.32	1.45	1.52
1	g	120	LYS	C-N	6.32	1.42	1.34
2	n	149	GLY	C-N	6.32	1.41	1.33
1	a	86	ARG	CZ-NH2	6.32	1.41	1.33
3	L	322	LYS	N-CA	-6.32	1.38	1.46
3	M	43	ARG	C-N	6.32	1.42	1.34
3	M	222	LEU	CA-CB	6.32	1.63	1.53
2	2	71	LYS	N-CA	-6.32	1.38	1.46
1	c	189	MET	C-N	6.31	1.41	1.33
1	C	190	VAL	C-N	6.31	1.42	1.33
2	j	80	ARG	NE-CZ	6.31	1.40	1.33
1	A	235	ARG	N-CA	6.31	1.54	1.46
1	D	130	ARG	NE-CZ	6.31	1.40	1.33
3	M	58	LEU	C-N	6.31	1.43	1.33
1	g	137	LEU	CA-C	-6.30	1.45	1.52
3	L	197	ASN	CA-CB	6.30	1.63	1.53
2	l	102	ARG	CZ-NH1	6.30	1.41	1.32
2	1	113	GLY	C-O	-6.30	1.17	1.23
2	7	212	ARG	NE-CZ	6.30	1.40	1.33
3	L	379	ILE	N-CA	-6.30	1.39	1.46
3	J	317	ARG	CD-NE	6.30	1.55	1.46
1	e	64	ILE	C-O	-6.29	1.17	1.24
2	i	170	ARG	NE-CZ	6.29	1.40	1.33
2	4	154	ARG	CD-NE	6.29	1.55	1.46
2	l	53	ALA	CA-C	-6.29	1.45	1.52
2	n	76	LEU	CA-CB	6.29	1.63	1.53
3	I	223	VAL	CA-C	-6.29	1.44	1.52
1	a	67	ILE	N-CA	-6.29	1.38	1.46
2	j	148	TYR	CA-C	-6.29	1.44	1.52
2	l	156	THR	N-CA	6.29	1.55	1.46
2	6	195	GLU	CA-C	-6.28	1.44	1.52
1	b	68	TYR	N-CA	-6.28	1.38	1.46
1	g	59	LEU	CB-CG	6.28	1.66	1.53
2	n	212	ARG	CA-C	-6.28	1.45	1.52
1	g	224	VAL	CA-C	-6.27	1.45	1.52
1	B	130	ARG	CA-CB	6.27	1.63	1.53
1	E	24	VAL	CA-C	-6.27	1.43	1.52
3	H	201	ALA	CA-CB	6.27	1.62	1.53
1	c	171	VAL	N-CA	-6.27	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	91	ARG	CZ-NH2	6.27	1.41	1.33
2	l	109	GLN	CA-C	-6.27	1.45	1.52
3	J	72	LEU	CA-C	-6.27	1.44	1.52
3	L	40	GLU	C-N	6.27	1.42	1.34
1	A	166	MET	N-CA	-6.26	1.38	1.46
2	2	46	TYR	N-CA	-6.26	1.38	1.46
2	m	135	LYS	N-CA	-6.26	1.38	1.46
1	E	138	ILE	CA-C	-6.26	1.45	1.52
3	M	281	VAL	CA-CB	-6.26	1.46	1.54
2	6	156	THR	N-CA	-6.26	1.37	1.46
1	d	22	PHE	CA-C	-6.25	1.44	1.52
3	L	57	ARG	C-N	6.25	1.42	1.34
2	i	111	LEU	CA-C	-6.25	1.45	1.52
2	6	145	LEU	C-O	6.25	1.31	1.24
2	6	147	ALA	C-N	6.25	1.42	1.33
1	B	234	GLU	CA-C	6.25	1.60	1.52
3	H	154	ARG	CD-NE	6.25	1.54	1.46
1	g	230	LYS	CA-CB	6.24	1.59	1.54
3	H	271	GLU	C-N	6.24	1.42	1.33
1	f	184	SER	CA-CB	6.24	1.62	1.53
2	1	102	ARG	NE-CZ	6.24	1.40	1.33
2	l	80	ARG	CD-NE	6.24	1.54	1.46
2	l	164	ALA	C-N	6.24	1.41	1.33
2	7	38	ALA	CA-C	-6.24	1.46	1.52
3	K	53	SER	N-CA	-6.24	1.38	1.46
3	H	378	ALA	N-CA	-6.24	1.38	1.46
1	b	244	LEU	N-CA	-6.24	1.39	1.46
3	K	224	ARG	NE-CZ	6.24	1.40	1.33
2	k	179	ASP	CA-C	-6.23	1.45	1.52
3	K	143	ILE	CA-C	-6.23	1.45	1.52
2	1	204	VAL	CA-C	6.23	1.60	1.52
2	7	80	ARG	CZ-NH2	6.23	1.41	1.33
1	e	53	ARG	CZ-NH2	6.23	1.41	1.33
3	I	163	LYS	CA-CB	6.23	1.60	1.53
1	b	93	ARG	CA-C	-6.22	1.45	1.52
1	e	219	ARG	NE-CZ	6.22	1.39	1.33
2	i	203	GLU	C-N	6.22	1.41	1.33
2	4	103	TYR	CA-C	-6.22	1.44	1.52
2	6	83	ARG	CA-C	-6.22	1.44	1.52
2	4	28	GLU	CA-C	-6.22	1.45	1.52
2	i	68	ARG	CZ-NH1	6.22	1.41	1.32
2	3	68	ARG	CZ-NH1	6.22	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6	187	ASP	N-CA	-6.22	1.38	1.46
3	K	64	LEU	N-CA	-6.22	1.38	1.46
2	m	83	ARG	CZ-NH1	6.21	1.41	1.32
3	I	46	ARG	CZ-NH1	6.21	1.41	1.32
3	L	46	ARG	NE-CZ	6.21	1.39	1.33
3	I	91	THR	N-CA	-6.21	1.38	1.45
2	1	92	THR	CA-C	-6.21	1.44	1.52
2	m	195	GLU	C-N	6.21	1.41	1.33
1	A	244	LEU	C-N	6.21	1.42	1.33
1	a	212	GLY	CA-C	6.21	1.57	1.52
3	I	100	LEU	N-CA	-6.21	1.38	1.46
3	I	300	PRO	N-CD	6.21	1.56	1.47
3	K	313	THR	C-N	6.21	1.41	1.33
1	B	50	ALA	N-CA	-6.21	1.38	1.45
2	6	68	ARG	CA-C	-6.20	1.44	1.52
3	H	57	ARG	CD-NE	6.20	1.54	1.46
3	M	153	ILE	CA-C	-6.20	1.44	1.52
1	a	171	VAL	CA-CB	-6.20	1.46	1.54
2	h	26	ALA	N-CA	-6.20	1.38	1.46
2	3	48	ILE	CA-CB	6.20	1.61	1.55
2	4	15	VAL	CA-CB	-6.20	1.45	1.54
1	C	113	ALA	CA-C	-6.20	1.44	1.52
1	g	28	ARG	C-N	6.20	1.42	1.33
1	E	183	LEU	N-CA	6.19	1.53	1.45
3	I	294	ASP	C-O	-6.19	1.16	1.23
2	3	23	VAL	N-CA	-6.19	1.39	1.46
2	3	25	MET	C-N	6.19	1.41	1.33
2	i	52	MET	N-CA	-6.19	1.38	1.45
2	j	111	LEU	N-CA	-6.19	1.39	1.46
3	H	41	ARG	CZ-NH2	6.19	1.41	1.33
1	E	86	ARG	CD-NE	6.19	1.54	1.46
2	4	186	ILE	CA-C	-6.19	1.45	1.52
2	j	81	ARG	CD-NE	6.19	1.54	1.46
1	C	17	PRO	C-N	6.18	1.42	1.33
1	d	132	PHE	C-N	6.18	1.42	1.33
2	1	23	VAL	CA-C	-6.18	1.44	1.52
1	A	219	ARG	CA-C	-6.17	1.45	1.53
3	J	183	PRO	CA-C	-6.17	1.48	1.52
1	C	130	ARG	NE-CZ	6.17	1.39	1.33
3	L	33	GLU	N-CA	-6.17	1.38	1.46
3	L	71	ILE	C-O	-6.17	1.17	1.24
1	g	189	MET	C-N	6.17	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	118	ASP	CA-C	-6.17	1.44	1.52
2	n	82	GLU	CA-C	-6.17	1.45	1.53
3	I	377	LYS	C-N	6.17	1.42	1.33
3	M	312	PRO	C-N	6.17	1.41	1.33
1	e	100	ARG	CZ-NH2	6.17	1.41	1.33
2	5	22	GLY	C-N	6.17	1.41	1.33
3	M	156	ALA	N-CA	-6.17	1.38	1.46
1	C	33	ARG	NE-CZ	6.17	1.39	1.33
3	M	65	VAL	CA-C	-6.17	1.45	1.52
2	2	91	ALA	CA-CB	6.16	1.62	1.53
2	j	111	LEU	CA-C	-6.16	1.45	1.52
3	L	52	ARG	NE-CZ	6.16	1.39	1.33
1	G	15	PHE	CA-C	6.16	1.61	1.52
2	7	160	GLY	C-N	6.16	1.40	1.33
3	M	24	ARG	NE-CZ	6.16	1.39	1.33
1	a	44	GLU	N-CA	-6.15	1.39	1.46
1	D	225	SER	C-N	6.15	1.41	1.33
2	m	127	PRO	C-N	6.15	1.41	1.33
2	4	32	THR	N-CA	-6.14	1.38	1.46
3	L	335	ASP	C-N	6.14	1.42	1.34
3	H	330	LEU	CA-C	-6.14	1.44	1.52
1	a	89	ILE	C-N	6.14	1.42	1.33
1	B	165	GLY	C-N	6.14	1.42	1.34
1	d	86	ARG	CA-CB	6.14	1.62	1.53
1	G	176	GLU	C-N	6.14	1.41	1.33
1	b	149	GLU	C-N	6.13	1.41	1.33
1	g	73	HIS	CG-CD2	-6.13	1.29	1.35
2	j	25	MET	CA-C	-6.13	1.45	1.52
2	4	131	ALA	N-CA	-6.13	1.39	1.46
1	C	207	GLU	CA-C	-6.13	1.45	1.52
3	I	245	ALA	N-CA	-6.13	1.38	1.46
3	I	296	ALA	C-N	6.13	1.42	1.33
2	1	88	ARG	CA-C	-6.13	1.44	1.52
2	2	211	PHE	CA-CB	6.13	1.63	1.53
2	5	126	ASP	CA-C	6.12	1.60	1.52
1	a	198	LEU	N-CA	-6.12	1.38	1.46
1	B	83	ALA	C-N	6.12	1.42	1.34
1	D	85	ALA	N-CA	-6.12	1.39	1.46
1	d	209	ILE	CA-C	-6.12	1.45	1.52
1	b	67	ILE	CA-C	-6.12	1.45	1.52
1	e	47	ILE	N-CA	-6.12	1.39	1.46
1	G	91	ARG	NE-CZ	6.12	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	138	VAL	CA-C	6.12	1.59	1.52
1	a	239	ARG	NE-CZ	6.12	1.39	1.33
2	l	28	GLU	C-N	6.12	1.41	1.33
1	c	228	GLU	N-CA	-6.11	1.38	1.46
1	d	33	ARG	N-CA	-6.11	1.38	1.46
1	e	245	LYS	CA-C	-6.11	1.44	1.52
2	2	125	ILE	C-N	6.11	1.42	1.33
2	j	81	ARG	NE-CZ	6.11	1.39	1.33
1	G	78	THR	N-CA	-6.11	1.37	1.45
1	c	202	SER	C-N	6.11	1.41	1.33
2	l	62	ASP	C-O	-6.11	1.17	1.24
1	a	183	LEU	C-N	6.10	1.41	1.33
1	G	64	ILE	CA-CB	-6.10	1.47	1.54
2	7	212	ARG	CD-NE	6.10	1.54	1.46
2	6	21	ASP	CA-C	-6.10	1.45	1.53
2	3	115	ILE	CA-CB	-6.10	1.47	1.54
1	B	219	ARG	CD-NE	6.10	1.54	1.46
1	c	227	GLU	N-CA	6.10	1.53	1.46
1	g	118	ASP	C-N	6.10	1.42	1.33
1	a	235	ARG	CD-NE	6.10	1.54	1.46
2	1	167	LEU	C-N	6.10	1.42	1.33
1	c	151	ASP	CA-CB	6.09	1.62	1.53
1	e	131	PRO	C-N	6.09	1.41	1.33
1	f	193	LEU	C-N	6.09	1.41	1.33
2	n	67	ALA	CA-C	-6.09	1.44	1.52
3	H	89	VAL	C-N	6.09	1.42	1.33
2	6	85	PRO	CA-CB	-6.09	1.45	1.53
3	M	278	ARG	CA-C	-6.09	1.45	1.52
1	D	39	GLY	CA-C	-6.09	1.46	1.52
3	J	43	ARG	CZ-NH2	6.09	1.41	1.33
1	B	60	GLU	C-N	6.09	1.42	1.34
1	b	171	VAL	CA-C	-6.09	1.45	1.52
2	j	103	TYR	CA-C	-6.09	1.44	1.52
3	J	157	VAL	N-CA	-6.09	1.41	1.46
2	m	80	ARG	CA-CB	6.08	1.62	1.53
3	I	86	LYS	N-CA	-6.08	1.38	1.45
2	3	173	TYR	CA-C	-6.08	1.44	1.52
1	a	146	LYS	N-CA	-6.08	1.38	1.46
3	I	41	ARG	C-N	6.08	1.41	1.33
3	I	63	LEU	N-CA	-6.08	1.38	1.45
1	D	167	GLY	C-N	6.08	1.42	1.33
1	e	192	GLY	C-N	6.08	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	n	42	ALA	C-N	6.08	1.41	1.33
3	H	11	GLU	CA-C	-6.08	1.45	1.52
2	h	170	ARG	NE-CZ	6.07	1.39	1.33
3	J	97	GLU	CA-C	-6.07	1.44	1.52
1	A	28	ARG	NE-CZ	6.07	1.39	1.33
3	K	168	ALA	CA-C	6.07	1.60	1.52
3	M	356	THR	N-CA	-6.07	1.38	1.46
2	5	203	GLU	C-N	6.07	1.41	1.33
1	a	170	ALA	CA-C	-6.07	1.45	1.52
3	I	138	VAL	CA-CB	-6.07	1.46	1.53
1	B	40	ILE	CA-CB	-6.07	1.46	1.54
1	b	59	LEU	CA-C	-6.07	1.44	1.53
3	L	59	ARG	NE-CZ	6.07	1.39	1.33
1	a	31	VAL	CA-CB	-6.07	1.46	1.54
3	H	341	ARG	CD-NE	6.07	1.54	1.46
3	M	335	ASP	N-CA	-6.06	1.39	1.46
2	j	178	ARG	CD-NE	6.06	1.54	1.46
2	5	24	VAL	CA-CB	-6.06	1.46	1.54
3	I	109	ASN	CA-CB	6.06	1.61	1.53
3	L	116	VAL	CA-CB	6.06	1.62	1.54
2	5	207	ILE	CA-C	-6.06	1.45	1.52
3	L	389	ILE	C-N	6.06	1.41	1.33
2	1	102	ARG	CD-NE	6.06	1.54	1.46
2	k	170	ARG	NE-CZ	6.06	1.39	1.33
3	J	389	ILE	N-CA	-6.06	1.39	1.46
1	c	171	VAL	C-N	6.06	1.42	1.33
3	K	40	GLU	N-CA	-6.06	1.39	1.46
1	A	180	ARG	CZ-NH1	6.06	1.41	1.32
1	d	141	VAL	CA-CB	-6.06	1.47	1.54
3	L	105	ARG	CA-CB	6.06	1.62	1.53
1	G	99	ASN	C-N	6.05	1.42	1.34
3	H	95	ILE	CA-C	-6.05	1.45	1.52
1	D	154	GLY	C-N	6.05	1.42	1.33
1	b	202	SER	C-N	6.05	1.42	1.33
1	G	33	ARG	CD-NE	6.05	1.54	1.46
2	i	23	VAL	CA-C	-6.05	1.45	1.52
2	7	22	GLY	CA-C	6.05	1.57	1.51
3	M	305	ARG	C-N	6.05	1.41	1.33
1	A	194	VAL	CA-CB	-6.04	1.47	1.54
1	c	52	LYS	CA-C	-6.04	1.44	1.52
2	2	115	ILE	CA-C	-6.04	1.45	1.52
2	2	131	ALA	CA-C	-6.04	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4	133	GLU	CA-C	-6.04	1.45	1.52
1	a	149	GLU	CA-C	-6.04	1.45	1.52
2	n	45	ILE	CA-C	-6.04	1.45	1.52
1	E	219	ARG	NE-CZ	6.04	1.39	1.33
3	K	302	ARG	CZ-NH1	6.04	1.41	1.32
1	B	91	ARG	CD-NE	6.04	1.54	1.46
1	D	53	ARG	NE-CZ	6.04	1.39	1.33
2	3	178	ARG	NE-CZ	6.04	1.39	1.33
2	4	80	ARG	NE-CZ	6.03	1.39	1.33
1	G	134	VAL	CA-CB	-6.03	1.49	1.55
3	M	360	MET	CA-CB	6.03	1.62	1.53
1	G	121	GLN	C-N	6.03	1.42	1.33
3	H	303	PHE	CA-C	-6.03	1.43	1.53
3	J	317	ARG	NE-CZ	6.03	1.39	1.33
2	h	63	ALA	N-CA	-6.03	1.39	1.46
3	J	137	GLU	CA-CB	6.03	1.62	1.54
1	b	42	CYS	N-CA	-6.03	1.37	1.46
1	g	22	PHE	C-N	6.03	1.41	1.33
2	j	64	GLN	CA-C	-6.03	1.45	1.52
2	5	132	ILE	CA-CB	-6.03	1.46	1.53
1	C	22	PHE	CA-CB	6.02	1.64	1.53
3	H	266	MET	C-N	6.02	1.41	1.33
2	k	28	GLU	CA-C	-6.02	1.45	1.52
1	C	173	GLU	C-N	6.02	1.41	1.33
1	e	179	TYR	N-CA	-6.02	1.38	1.46
3	I	66	GLY	CA-C	-6.02	1.47	1.52
2	l	74	ALA	CA-C	-6.02	1.45	1.52
1	d	93	ARG	CD-NE	6.01	1.54	1.46
3	J	74	ASP	N-CA	-6.01	1.38	1.46
1	d	200	ILE	CA-CB	6.01	1.62	1.54
2	n	137	ILE	C-N	6.01	1.39	1.33
3	I	100	LEU	CA-CB	6.01	1.62	1.53
1	f	124	THR	N-CA	6.01	1.53	1.46
3	H	131	GLU	CA-C	6.01	1.60	1.52
1	B	230	LYS	C-N	6.01	1.41	1.33
1	C	78	THR	CA-C	-6.01	1.45	1.52
1	E	73	HIS	ND1-CE1	6.01	1.38	1.32
1	f	46	VAL	CA-C	-6.01	1.45	1.52
1	f	47	ILE	CA-C	6.01	1.59	1.52
1	g	195	ALA	N-CA	-6.01	1.39	1.46
2	i	147	ALA	CA-C	-6.01	1.45	1.52
2	k	185	GLY	CA-C	-6.01	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6	22	GLY	CA-C	-6.01	1.46	1.52
2	4	49	ALA	CA-C	-6.01	1.45	1.52
2	6	93	LEU	N-CA	-6.00	1.39	1.46
3	J	149	GLN	N-CA	-6.00	1.39	1.46
3	M	16	LEU	N-CA	-6.00	1.39	1.46
3	M	217	GLY	C-N	6.00	1.42	1.33
1	C	50	ALA	N-CA	-6.00	1.38	1.46
2	6	83	ARG	NE-CZ	6.00	1.39	1.33
2	n	116	ASP	N-CA	-6.00	1.39	1.46
3	J	362	ALA	N-CA	6.00	1.53	1.46
1	G	182	ASP	CA-CB	6.00	1.62	1.53
1	B	229	LEU	CA-CB	6.00	1.62	1.53
2	1	208	LEU	N-CA	-6.00	1.38	1.46
2	k	178	ARG	CA-C	-6.00	1.45	1.52
2	5	63	ALA	N-CA	-6.00	1.39	1.46
1	C	20	ARG	NE-CZ	6.00	1.39	1.33
1	f	194	VAL	CA-C	-6.00	1.45	1.52
2	h	51	ARG	CZ-NH1	6.00	1.41	1.32
3	M	179	LEU	C-N	6.00	1.41	1.33
3	J	328	MET	CA-C	-6.00	1.45	1.53
1	B	177	LYS	CA-C	5.99	1.60	1.53
3	J	319	GLN	CA-C	-5.99	1.45	1.52
1	g	51	ASP	CA-C	-5.99	1.45	1.52
2	h	115	ILE	CA-CB	-5.99	1.46	1.54
2	l	85	PRO	N-CA	-5.99	1.39	1.47
1	f	177	LYS	N-CA	5.99	1.53	1.46
1	g	51	ASP	CA-CB	5.99	1.60	1.53
2	1	51	ARG	NE-CZ	5.99	1.39	1.33
3	K	253	SER	CA-C	-5.99	1.44	1.52
1	c	95	GLU	C-N	5.99	1.41	1.33
1	c	110	LYS	CA-C	5.99	1.60	1.52
1	F	7	GLY	C-N	5.99	1.40	1.33
1	e	209	ILE	N-CA	-5.98	1.39	1.46
2	h	183	GLY	CA-C	-5.98	1.43	1.51
1	C	22	PHE	CA-C	-5.98	1.44	1.52
1	E	130	ARG	NE-CZ	5.98	1.39	1.33
2	k	150	VAL	C-N	5.98	1.42	1.33
2	k	154	ARG	NE-CZ	5.98	1.39	1.33
1	c	89	ILE	CA-CB	5.98	1.61	1.54
3	L	341	ARG	CZ-NH1	5.98	1.41	1.32
1	c	24	VAL	CA-C	-5.98	1.45	1.52
3	L	397	PHE	CA-C	-5.98	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	133	GLU	CA-C	-5.98	1.47	1.53
1	b	20	ARG	CD-NE	5.97	1.54	1.46
1	f	149	GLU	CA-C	-5.97	1.45	1.53
3	L	13	LEU	CA-C	-5.97	1.45	1.52
1	B	88	LEU	CA-C	-5.97	1.45	1.52
2	i	68	ARG	CD-NE	5.97	1.54	1.46
2	5	51	ARG	CD-NE	5.97	1.54	1.46
2	m	200	SER	N-CA	5.97	1.54	1.46
3	I	350	ASP	CA-C	5.97	1.60	1.52
1	D	54	VAL	C-N	5.97	1.42	1.33
2	4	96	ASN	CA-CB	5.97	1.62	1.53
2	h	105	PRO	N-CA	-5.97	1.40	1.47
2	i	104	PHE	N-CA	-5.96	1.41	1.46
3	H	301	GLY	CA-C	-5.96	1.43	1.51
3	M	68	VAL	CA-C	5.96	1.59	1.52
2	1	168	ALA	CA-C	-5.96	1.45	1.52
2	3	33	MET	CA-CB	5.96	1.63	1.53
2	6	72	ILE	CA-CB	-5.96	1.46	1.54
2	7	103	TYR	CA-CB	5.96	1.62	1.53
2	i	55	THR	C-N	5.96	1.41	1.33
3	J	214	LYS	C-N	5.96	1.41	1.33
1	D	214	VAL	CA-C	-5.95	1.44	1.52
2	k	120	LYS	CA-C	-5.95	1.45	1.52
1	a	135	SER	C-N	5.95	1.41	1.33
3	K	116	VAL	N-CA	-5.95	1.39	1.46
2	2	102	ARG	NE-CZ	5.95	1.39	1.33
3	J	59	ARG	CZ-NH2	5.95	1.41	1.33
2	5	30	ARG	NE-CZ	5.94	1.39	1.33
1	c	148	TYR	CG-CD1	5.94	1.51	1.39
1	f	165	GLY	CA-C	-5.94	1.45	1.52
2	1	103	TYR	N-CA	-5.94	1.38	1.46
3	H	191	LEU	C-O	-5.94	1.17	1.24
2	i	175	ALA	C-N	5.93	1.42	1.34
2	k	150	VAL	CA-CB	-5.93	1.46	1.54
3	H	137	GLU	N-CA	-5.93	1.39	1.46
3	M	196	ALA	CA-C	-5.93	1.45	1.52
2	4	30	ARG	NE-CZ	5.93	1.39	1.33
1	F	224	VAL	CA-C	-5.93	1.46	1.52
2	h	26	ALA	CA-C	-5.93	1.45	1.52
3	H	45	GLU	CA-C	-5.93	1.45	1.52
1	D	53	ARG	CD-NE	5.93	1.54	1.46
1	G	141	VAL	CA-C	-5.93	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	123	LYS	N-CA	-5.93	1.38	1.45
1	C	43	LYS	CA-C	-5.92	1.44	1.52
1	A	190	VAL	C-N	5.92	1.42	1.34
3	M	133	GLU	CA-C	-5.92	1.45	1.52
3	M	300	PRO	N-CD	5.92	1.56	1.47
1	E	127	GLY	CA-C	-5.92	1.43	1.51
1	E	156	LEU	CA-C	-5.92	1.45	1.52
2	1	200	SER	CA-CB	5.92	1.62	1.53
2	4	206	GLN	CD-NE2	5.92	1.45	1.33
2	7	50	ASP	C-N	5.92	1.41	1.33
3	M	362	ALA	CA-C	-5.92	1.45	1.52
3	H	221	ARG	NE-CZ	5.91	1.39	1.33
1	e	186	ASP	C-N	5.91	1.42	1.33
2	l	112	ILE	CA-C	-5.91	1.44	1.52
2	l	170	ARG	NE-CZ	5.91	1.39	1.33
1	D	111	GLU	C-N	5.91	1.42	1.33
2	6	117	SER	N-CA	5.91	1.53	1.46
3	H	249	ARG	N-CA	-5.91	1.38	1.46
1	f	66	LYS	N-CA	-5.91	1.38	1.46
1	f	128	GLY	CA-C	5.91	1.59	1.51
1	g	42	CYS	CA-CB	5.91	1.61	1.53
1	e	126	TYR	CA-C	-5.91	1.45	1.52
2	h	101	TYR	N-CA	-5.91	1.38	1.46
2	m	136	ASP	C-N	5.91	1.42	1.33
3	K	95	ILE	C-O	5.90	1.31	1.23
1	e	214	VAL	CA-C	-5.90	1.45	1.52
2	2	155	PHE	C-N	5.90	1.40	1.33
3	J	196	ALA	CA-C	-5.90	1.45	1.52
1	a	148	TYR	C-O	-5.90	1.16	1.23
3	M	202	THR	C-N	5.90	1.43	1.33
2	4	19	CYS	C-N	5.90	1.42	1.33
1	B	141	VAL	CA-CB	5.90	1.61	1.53
2	6	19	CYS	CA-C	-5.90	1.44	1.52
2	k	60	VAL	N-CA	-5.90	1.39	1.46
1	e	86	ARG	CZ-NH1	5.89	1.41	1.32
3	L	149	GLN	CA-C	5.89	1.60	1.52
1	F	205	VAL	CA-C	-5.89	1.46	1.52
2	5	196	PHE	CA-C	-5.89	1.46	1.53
3	L	145	GLY	CA-C	5.89	1.59	1.51
1	F	66	LYS	C-N	5.89	1.42	1.33
1	F	71	ASP	CA-C	-5.89	1.45	1.52
2	6	72	ILE	CA-C	-5.89	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	276	ASP	C-N	5.89	1.40	1.33
1	d	202	SER	CA-C	-5.89	1.45	1.52
3	L	186	THR	CA-C	-5.89	1.45	1.52
1	A	121	GLN	C-N	5.89	1.41	1.34
1	A	126	TYR	CA-C	5.89	1.61	1.53
2	5	62	ASP	C-N	5.89	1.41	1.33
1	B	21	LEU	CA-C	-5.88	1.45	1.52
1	C	138	ILE	N-CA	5.88	1.53	1.46
2	2	93	LEU	CB-CG	5.88	1.65	1.53
2	k	191	ILE	CA-C	-5.88	1.45	1.52
3	H	10	LEU	N-CA	-5.88	1.39	1.46
1	c	24	VAL	C-N	5.88	1.42	1.33
1	g	20	ARG	NE-CZ	5.88	1.39	1.33
2	j	194	ASP	N-CA	-5.88	1.39	1.46
2	k	16	GLY	C-N	5.88	1.41	1.33
3	I	265	MET	CA-C	-5.88	1.45	1.52
1	c	70	ILE	N-CA	-5.88	1.41	1.46
1	D	192	GLY	CA-C	-5.88	1.44	1.51
1	e	113	ALA	CA-C	-5.88	1.45	1.52
2	3	178	ARG	C-N	5.88	1.41	1.33
2	l	154	ARG	NE-CZ	5.88	1.39	1.33
2	m	163	GLU	CA-CB	5.88	1.62	1.53
2	n	68	ARG	CZ-NH2	5.88	1.41	1.33
3	K	249	ARG	CD-NE	5.88	1.54	1.46
1	G	78	THR	C-N	5.88	1.41	1.33
1	f	180	ARG	CA-C	-5.87	1.45	1.52
1	E	135	SER	N-CA	-5.87	1.38	1.46
1	a	23	GLN	CA-CB	5.87	1.62	1.53
2	5	133	GLU	CA-CB	5.87	1.63	1.53
2	7	97	LEU	CA-C	-5.87	1.45	1.52
3	M	364	ARG	CD-NE	5.87	1.54	1.46
2	1	27	THR	N-CA	-5.86	1.38	1.45
2	m	89	ALA	C-N	5.86	1.41	1.33
3	J	374	ASP	CA-CB	5.86	1.62	1.53
2	1	65	PHE	CA-CB	5.86	1.62	1.53
2	m	178	ARG	C-N	5.86	1.41	1.33
1	A	223	GLU	N-CA	-5.86	1.38	1.46
1	a	201	GLU	CA-C	-5.86	1.45	1.53
1	g	130	ARG	NE-CZ	5.86	1.39	1.33
1	C	182	ASP	C-N	5.86	1.41	1.33
1	E	155	ALA	CA-CB	5.86	1.63	1.53
2	h	189	VAL	CA-CB	-5.86	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	5	17	LEU	CA-CB	5.86	1.63	1.53
2	7	133	GLU	CA-C	-5.86	1.45	1.52
3	L	93	GLN	CA-CB	5.86	1.62	1.53
3	J	273	ASP	CA-C	-5.86	1.45	1.52
1	F	239	ARG	NE-CZ	5.86	1.39	1.33
2	4	137	ILE	N-CA	5.86	1.53	1.46
1	c	33	ARG	N-CA	-5.85	1.39	1.46
3	I	249	ARG	CD-NE	5.85	1.54	1.46
1	G	51	ASP	C-O	-5.85	1.17	1.23
2	l	24	VAL	CA-CB	-5.85	1.47	1.54
3	L	28	ARG	CD-NE	5.85	1.54	1.46
3	M	369	LYS	N-CA	-5.85	1.38	1.45
1	d	78	THR	CA-C	-5.84	1.45	1.52
3	H	214	LYS	C-N	5.84	1.42	1.33
2	i	110	LEU	N-CA	-5.84	1.39	1.46
3	M	289	ARG	C-N	5.84	1.41	1.33
1	a	18	ASP	CA-C	-5.84	1.45	1.52
1	f	93	ARG	NE-CZ	5.84	1.39	1.33
2	i	167	LEU	N-CA	-5.84	1.39	1.46
2	k	163	GLU	CA-C	-5.84	1.44	1.52
1	B	138	ILE	C-N	5.84	1.40	1.33
3	I	200	ARG	NE-CZ	5.84	1.39	1.33
2	h	107	LEU	CA-C	-5.84	1.45	1.52
2	l	164	ALA	CA-CB	5.84	1.62	1.53
1	e	235	ARG	NE-CZ	5.83	1.39	1.33
1	F	168	ARG	NE-CZ	5.83	1.39	1.33
3	L	380	GLU	C-O	-5.83	1.17	1.24
2	l	18	VAL	CA-CB	5.83	1.60	1.54
3	J	47	GLU	CA-C	-5.83	1.45	1.52
1	a	242	GLU	C-N	5.83	1.41	1.33
2	h	138	VAL	N-CA	5.83	1.52	1.46
3	I	174	PRO	CA-CB	-5.83	1.46	1.54
3	H	46	ARG	N-CA	-5.83	1.39	1.46
1	D	190	VAL	N-CA	-5.82	1.39	1.46
1	d	103	TYR	N-CA	5.82	1.53	1.46
2	n	88	ARG	CD-NE	5.82	1.54	1.46
1	b	106	PRO	N-CD	-5.82	1.39	1.47
1	C	60	GLU	CA-C	5.82	1.60	1.52
2	7	99	ASN	C-N	5.82	1.41	1.33
2	i	194	ASP	CA-C	5.82	1.60	1.52
3	L	83	THR	CB-OG1	-5.82	1.34	1.43
1	c	18	ASP	CA-C	-5.81	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4	30	ARG	CD-NE	5.81	1.54	1.46
2	k	172	ILE	C-N	5.81	1.42	1.34
3	M	41	ARG	N-CA	-5.81	1.39	1.46
1	b	139	ALA	CA-C	-5.81	1.45	1.52
2	h	75	ASN	N-CA	-5.81	1.39	1.46
2	n	174	SER	C-N	5.81	1.41	1.33
1	C	152	PRO	C-N	5.81	1.41	1.33
1	f	231	PRO	CA-CB	-5.81	1.44	1.53
1	c	149	GLU	N-CA	-5.81	1.38	1.46
3	H	302	ARG	CZ-NH2	5.81	1.41	1.33
1	B	93	ARG	CA-CB	5.80	1.62	1.53
2	j	30	ARG	C-N	5.80	1.41	1.33
2	h	45	ILE	N-CA	-5.80	1.39	1.46
3	H	289	ARG	NE-CZ	5.80	1.39	1.33
1	B	202	SER	CA-C	-5.80	1.45	1.52
1	c	82	VAL	C-N	5.80	1.41	1.33
1	f	214	VAL	CA-C	-5.80	1.45	1.52
1	g	164	ILE	CA-C	-5.80	1.46	1.52
2	l	189	VAL	CA-C	-5.80	1.45	1.52
1	F	235	ARG	CA-C	-5.80	1.45	1.52
2	6	113	GLY	C-O	5.80	1.30	1.23
2	h	178	ARG	CD-NE	5.79	1.54	1.46
1	E	184	SER	C-N	5.79	1.41	1.33
1	e	106	PRO	CA-C	5.79	1.59	1.52
1	e	186	ASP	CA-C	-5.79	1.45	1.52
3	H	241	ASP	CA-CB	5.79	1.62	1.53
3	J	105	ARG	CA-CB	5.79	1.62	1.53
2	l	131	ALA	N-CA	-5.79	1.39	1.46
2	h	49	ALA	N-CA	-5.79	1.38	1.46
2	j	22	GLY	N-CA	-5.79	1.37	1.45
2	h	82	GLU	CA-C	-5.79	1.45	1.52
1	B	54	VAL	CA-C	-5.79	1.45	1.52
1	e	222	LYS	CA-C	-5.79	1.45	1.52
3	J	396	MET	CA-C	-5.79	1.45	1.52
3	J	61	PRO	CA-C	-5.79	1.46	1.52
1	E	30	ALA	C-O	-5.79	1.17	1.24
1	e	142	ASP	CA-C	5.78	1.60	1.52
3	K	225	GLU	N-CA	-5.78	1.39	1.46
3	K	263	ARG	NE-CZ	5.78	1.39	1.33
2	2	83	ARG	NE-CZ	5.78	1.39	1.33
1	E	91	ARG	N-CA	-5.78	1.39	1.46
2	7	178	ARG	CD-NE	5.78	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	86	ARG	CD-NE	5.78	1.54	1.46
1	E	116	ILE	N-CA	-5.78	1.39	1.46
1	B	133	GLY	C-O	-5.77	1.20	1.24
1	G	120	LYS	N-CA	-5.77	1.39	1.46
3	J	133	GLU	C-O	-5.77	1.18	1.24
2	l	113	GLY	C-N	5.77	1.41	1.32
2	k	15	VAL	CA-CB	-5.77	1.46	1.54
3	H	324	HIS	ND1-CE1	5.77	1.38	1.32
3	J	283	VAL	C-N	5.77	1.40	1.33
1	F	108	THR	N-CA	-5.77	1.38	1.45
1	F	113	ALA	CA-CB	5.77	1.62	1.53
1	G	20	ARG	NE-CZ	5.77	1.39	1.33
1	b	110	LYS	C-N	5.76	1.41	1.33
2	j	71	LYS	N-CA	-5.76	1.39	1.46
2	4	150	VAL	C-N	5.76	1.41	1.33
1	d	10	ARG	N-CA	5.76	1.57	1.46
2	i	45	ILE	N-CA	-5.76	1.39	1.46
1	a	209	ILE	C-N	5.76	1.41	1.33
1	f	151	ASP	CA-CB	5.76	1.61	1.53
1	C	211	VAL	C-O	-5.76	1.18	1.24
1	c	229	LEU	CA-C	-5.76	1.45	1.52
1	F	126	TYR	CA-CB	5.76	1.62	1.53
1	g	157	LEU	CA-C	-5.76	1.45	1.52
2	k	189	VAL	N-CA	-5.76	1.39	1.46
3	H	55	VAL	CA-C	5.76	1.59	1.52
3	K	46	ARG	NE-CZ	5.76	1.39	1.33
1	F	129	VAL	CA-C	5.76	1.59	1.52
1	C	65	GLU	CA-C	-5.76	1.45	1.52
1	e	240	ILE	CA-CB	5.76	1.61	1.54
2	l	31	ALA	C-N	5.76	1.42	1.33
1	e	14	VAL	N-CA	-5.75	1.39	1.46
3	K	85	PRO	CA-C	-5.75	1.45	1.52
3	M	50	ARG	CD-NE	5.75	1.54	1.46
3	H	46	ARG	CZ-NH1	5.75	1.40	1.32
3	K	283	VAL	N-CA	-5.75	1.39	1.46
3	M	299	ARG	CZ-NH1	5.75	1.40	1.32
3	H	128	TYR	CA-C	-5.75	1.45	1.52
1	E	213	TYR	CZ-OH	5.75	1.50	1.38
2	6	136	ASP	CA-CB	5.74	1.63	1.53
3	K	326	ARG	NE-CZ	5.74	1.39	1.33
2	k	81	ARG	CD-NE	5.74	1.54	1.46
3	M	88	VAL	CA-C	5.74	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	241	ARG	CA-CB	5.74	1.62	1.53
2	5	172	ILE	CA-CB	5.74	1.61	1.54
3	M	179	LEU	CA-C	-5.74	1.46	1.52
3	J	393	LYS	C-N	5.74	1.41	1.33
2	m	129	GLY	C-N	5.74	1.41	1.33
3	K	232	GLU	C-N	5.74	1.41	1.33
1	a	50	ALA	CA-CB	5.74	1.66	1.54
1	a	241	ARG	NE-CZ	5.74	1.39	1.33
1	D	191	LEU	CA-CB	5.73	1.62	1.53
1	c	90	ASP	C-N	5.73	1.41	1.33
1	D	135	SER	CA-C	-5.73	1.45	1.52
3	H	156	ALA	CA-CB	5.73	1.62	1.53
3	K	244	ASP	N-CA	-5.73	1.40	1.46
2	m	30	ARG	C-N	5.73	1.41	1.33
3	L	217	GLY	CA-C	-5.73	1.43	1.51
1	C	108	THR	C-N	5.73	1.41	1.33
2	h	92	THR	C-N	5.73	1.41	1.33
3	H	120	PRO	C-N	5.73	1.41	1.33
1	f	39	GLY	CA-C	-5.72	1.43	1.51
2	2	84	LYS	N-CA	-5.72	1.37	1.45
2	n	90	ILE	CA-C	-5.72	1.45	1.52
3	M	215	TYR	CA-C	-5.72	1.45	1.52
1	b	209	ILE	N-CA	-5.72	1.39	1.46
1	f	210	GLU	CA-C	-5.72	1.45	1.52
3	I	375	PHE	N-CA	-5.72	1.39	1.46
3	K	306	ILE	N-CA	-5.72	1.40	1.46
2	4	147	ALA	N-CA	-5.72	1.39	1.46
2	n	124	SER	CA-C	-5.72	1.45	1.52
1	d	199	SER	C-N	5.71	1.40	1.34
1	e	133	GLY	C-N	5.71	1.39	1.33
2	l	126	ASP	CA-CB	5.71	1.61	1.53
3	I	12	LYS	CA-C	-5.71	1.45	1.52
3	K	126	MET	C-N	5.71	1.39	1.33
3	J	308	GLU	CA-CB	5.71	1.62	1.53
3	K	259	ARG	NE-CZ	5.71	1.39	1.33
1	b	196	MET	N-CA	-5.71	1.39	1.46
1	G	38	ILE	CA-C	-5.71	1.45	1.52
2	2	147	ALA	N-CA	-5.71	1.39	1.46
2	n	194	ASP	C-N	5.71	1.40	1.33
1	F	168	ARG	C-O	-5.71	1.17	1.24
3	J	30	LEU	CB-CG	5.71	1.64	1.53
2	2	155	PHE	CA-C	-5.71	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	370	VAL	C-N	5.71	1.41	1.33
2	m	30	ARG	N-CA	-5.70	1.38	1.46
2	k	43	LYS	CA-C	-5.70	1.45	1.52
1	c	204	LEU	CA-C	-5.70	1.45	1.53
1	D	233	VAL	CA-C	-5.70	1.45	1.52
2	3	36	PHE	N-CA	-5.70	1.39	1.46
3	H	289	ARG	CD-NE	5.70	1.54	1.46
2	5	80	ARG	CZ-NH2	5.70	1.40	1.33
3	K	52	ARG	N-CA	-5.70	1.39	1.46
1	C	108	THR	N-CA	5.70	1.53	1.46
3	K	222	LEU	C-N	5.70	1.40	1.33
1	D	41	LYS	CA-C	-5.70	1.45	1.52
2	k	106	TYR	CA-C	-5.70	1.45	1.52
2	7	125	ILE	C-N	5.70	1.40	1.32
2	n	26	ALA	CA-C	-5.70	1.45	1.52
3	I	327	LYS	C-N	5.70	1.40	1.33
2	1	37	ILE	CA-C	-5.69	1.45	1.52
3	H	81	SER	CA-C	-5.69	1.45	1.53
3	K	326	ARG	N-CA	-5.69	1.38	1.46
1	E	130	ARG	C-O	-5.69	1.16	1.23
1	G	20	ARG	CD-NE	5.69	1.54	1.46
3	L	293	LEU	C-N	5.69	1.41	1.33
3	M	191	LEU	CA-CB	5.69	1.62	1.53
1	f	235	ARG	NE-CZ	5.69	1.39	1.33
2	1	26	ALA	N-CA	5.69	1.53	1.45
2	7	212	ARG	N-CA	-5.69	1.41	1.46
3	L	317	ARG	C-N	5.69	1.41	1.33
1	B	130	ARG	CA-C	-5.69	1.45	1.52
1	C	172	THR	CA-C	-5.69	1.45	1.52
3	I	209	SER	C-O	-5.69	1.17	1.24
3	K	12	LYS	C-N	5.69	1.41	1.33
2	4	165	VAL	CA-CB	-5.68	1.47	1.54
1	B	238	GLU	CA-CB	5.68	1.62	1.53
1	C	154	GLY	CA-C	-5.68	1.43	1.51
1	C	193	LEU	N-CA	-5.68	1.39	1.46
2	7	88	ARG	C-N	5.68	1.41	1.33
3	H	286	ALA	CA-C	-5.68	1.45	1.52
1	c	183	LEU	CA-C	-5.68	1.45	1.52
1	G	155	ALA	N-CA	5.68	1.52	1.45
1	g	180	ARG	NE-CZ	5.68	1.39	1.33
2	i	155	PHE	N-CA	-5.68	1.39	1.46
2	m	33	MET	CA-C	-5.68	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	48	VAL	N-CA	-5.68	1.40	1.46
3	J	106	VAL	N-CA	-5.68	1.39	1.46
1	C	174	PHE	CA-C	-5.67	1.45	1.52
2	5	189	VAL	N-CA	-5.67	1.39	1.46
3	J	102	PRO	N-CD	-5.67	1.39	1.47
1	f	241	ARG	CA-C	-5.67	1.45	1.52
1	A	68	TYR	N-CA	-5.67	1.39	1.46
1	B	226	PRO	N-CD	-5.67	1.39	1.47
1	c	219	ARG	CA-C	-5.67	1.45	1.52
1	g	235	ARG	CD-NE	5.67	1.54	1.46
3	H	169	GLU	C-N	5.67	1.41	1.33
3	L	159	LEU	N-CA	-5.67	1.38	1.46
3	J	364	ARG	CA-C	-5.67	1.45	1.52
1	G	191	LEU	C-N	5.67	1.42	1.33
1	A	82	VAL	CA-C	-5.67	1.45	1.52
1	B	125	GLN	C-N	5.67	1.41	1.33
1	f	218	ASP	C-N	5.67	1.41	1.33
1	g	100	ARG	NE-CZ	5.67	1.39	1.33
2	l	51	ARG	NE-CZ	5.66	1.39	1.33
2	1	127	PRO	C-N	5.66	1.40	1.34
3	L	362	ALA	CA-CB	-5.66	1.44	1.53
1	A	66	LYS	CA-C	5.66	1.59	1.53
3	K	24	ARG	CZ-NH1	5.66	1.40	1.32
3	K	91	THR	C-N	5.66	1.41	1.33
3	M	60	SER	N-CA	-5.66	1.37	1.45
1	E	87	VAL	CA-C	-5.66	1.46	1.52
1	G	241	ARG	C-O	-5.66	1.17	1.24
1	G	101	LEU	CA-C	-5.66	1.45	1.52
1	G	42	CYS	CA-C	-5.65	1.45	1.53
1	e	189	MET	N-CA	-5.65	1.39	1.46
2	l	211	PHE	CA-CB	5.65	1.61	1.53
1	A	48	LEU	CA-C	5.65	1.59	1.52
1	F	224	VAL	CA-CB	-5.65	1.47	1.53
2	h	141	GLY	CA-C	-5.65	1.45	1.52
2	7	39	SER	CA-CB	5.65	1.62	1.53
1	D	154	GLY	CA-C	-5.65	1.44	1.51
3	J	38	GLU	C-N	5.65	1.41	1.33
2	1	100	SER	C-N	5.65	1.42	1.33
2	i	51	ARG	CD-NE	5.65	1.54	1.46
2	4	30	ARG	C-N	5.65	1.41	1.33
1	A	121	GLN	CA-C	-5.64	1.45	1.52
1	b	95	GLU	C-N	5.64	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	28	ARG	NE-CZ	5.64	1.39	1.33
1	f	191	LEU	CA-C	5.64	1.60	1.52
2	5	68	ARG	CA-C	-5.64	1.45	1.52
3	L	387	THR	CA-C	5.64	1.60	1.52
3	M	377	LYS	C-N	5.64	1.41	1.33
1	D	62	ASP	C-N	5.64	1.40	1.33
1	G	202	SER	CA-C	-5.64	1.45	1.52
1	A	42	CYS	C-N	5.64	1.41	1.33
1	a	211	VAL	CA-CB	-5.64	1.47	1.54
1	b	176	GLU	N-CA	-5.64	1.39	1.46
2	h	189	VAL	CA-C	-5.64	1.45	1.52
1	F	17	PRO	CA-CB	5.64	1.61	1.53
3	H	9	LEU	C-N	5.64	1.41	1.33
3	L	109	ASN	CA-C	-5.64	1.45	1.52
3	H	167	PHE	CA-C	-5.63	1.45	1.52
3	J	317	ARG	CA-C	-5.63	1.45	1.52
2	l	116	ASP	CA-C	-5.63	1.45	1.52
1	C	231	PRO	C-N	5.63	1.41	1.33
2	4	46	TYR	CA-C	-5.63	1.46	1.52
2	k	51	ARG	N-CA	-5.63	1.40	1.46
3	I	229	LEU	CA-C	5.63	1.60	1.52
3	L	299	ARG	CZ-NH1	5.63	1.40	1.32
1	c	100	ARG	CZ-NH1	5.63	1.40	1.32
2	5	173	TYR	C-N	5.63	1.41	1.33
3	M	308	GLU	CA-CB	5.63	1.61	1.53
1	a	54	VAL	CA-C	-5.63	1.45	1.52
1	d	73	HIS	N-CA	-5.63	1.39	1.46
1	D	178	GLU	C-N	5.62	1.40	1.33
1	D	37	ALA	C-N	5.62	1.41	1.33
1	g	142	ASP	CA-C	-5.62	1.47	1.52
3	I	265	MET	C-N	5.62	1.41	1.34
1	b	180	ARG	CZ-NH1	5.62	1.40	1.32
3	I	370	VAL	N-CA	-5.62	1.39	1.46
1	c	112	LEU	C-N	5.62	1.41	1.33
1	c	138	ILE	CA-CB	-5.62	1.47	1.54
1	g	235	ARG	CZ-NH2	5.62	1.40	1.33
2	i	145	LEU	C-N	5.62	1.41	1.33
1	a	109	VAL	CA-CB	-5.62	1.47	1.54
1	b	215	LYS	C-N	5.62	1.41	1.33
1	C	170	ALA	CA-C	-5.62	1.45	1.52
1	c	33	ARG	NE-CZ	5.62	1.39	1.33
2	n	185	GLY	CA-C	5.62	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	299	ARG	CZ-NH2	5.62	1.40	1.33
3	I	41	ARG	NE-CZ	5.62	1.39	1.33
3	M	107	ALA	CA-CB	5.62	1.60	1.53
1	D	225	SER	CA-CB	5.61	1.61	1.53
3	H	108	LEU	CA-CB	5.61	1.62	1.53
1	a	224	VAL	CA-C	-5.61	1.45	1.52
1	b	168	ARG	CD-NE	5.61	1.54	1.46
1	b	18	ASP	C-N	5.61	1.41	1.33
1	b	187	ASP	CA-CB	5.61	1.62	1.53
1	F	96	ALA	CA-C	-5.61	1.45	1.52
2	i	170	ARG	C-N	5.61	1.41	1.33
3	J	174	PRO	C-O	-5.61	1.18	1.24
1	g	53	ARG	CD-NE	5.61	1.54	1.46
2	i	107	LEU	C-N	5.61	1.39	1.33
1	E	91	ARG	CA-CB	5.61	1.62	1.53
2	h	105	PRO	C-N	-5.61	1.26	1.33
2	i	156	THR	CA-C	-5.61	1.45	1.52
3	M	204	ILE	C-N	5.61	1.41	1.33
1	G	11	ALA	N-CA	-5.61	1.38	1.45
3	K	13	LEU	CA-C	-5.61	1.45	1.52
1	A	161	ALA	N-CA	-5.60	1.39	1.46
1	d	180	ARG	NE-CZ	5.60	1.39	1.33
1	f	147	LEU	CA-C	-5.60	1.45	1.52
1	A	93	ARG	NE-CZ	5.60	1.39	1.33
2	6	112	ILE	CA-C	-5.60	1.45	1.52
3	H	103	GLY	C-N	5.60	1.41	1.33
1	f	243	LEU	CA-CB	-5.60	1.43	1.53
3	H	265	MET	C-O	-5.60	1.17	1.24
1	B	86	ARG	CZ-NH2	5.60	1.40	1.33
1	d	195	ALA	CA-CB	5.60	1.62	1.53
1	e	211	VAL	C-N	-5.60	1.26	1.33
2	4	60	VAL	C-N	5.60	1.40	1.33
3	I	32	ASP	C-O	-5.59	1.17	1.24
1	d	219	ARG	CD-NE	5.59	1.54	1.46
3	L	43	ARG	C-N	5.59	1.41	1.33
3	M	142	ASP	CA-C	-5.59	1.44	1.52
3	L	111	GLN	C-O	-5.59	1.16	1.24
1	E	91	ARG	CD-NE	5.59	1.54	1.46
2	h	130	GLY	CA-C	-5.59	1.44	1.51
2	n	173	TYR	CA-CB	-5.59	1.44	1.53
3	K	24	ARG	CA-C	-5.59	1.45	1.52
1	b	93	ARG	CD-NE	5.59	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	209	ILE	CA-C	-5.59	1.45	1.52
1	C	143	GLU	C-N	5.58	1.38	1.33
1	d	53	ARG	N-CA	-5.58	1.39	1.46
1	f	59	LEU	N-CA	5.58	1.52	1.46
3	K	216	ILE	CA-C	5.58	1.59	1.52
3	L	302	ARG	NE-CZ	5.58	1.39	1.33
1	F	130	ARG	CD-NE	5.58	1.54	1.46
1	G	47	ILE	C-N	5.58	1.41	1.33
2	j	161	VAL	N-CA	-5.58	1.39	1.46
2	k	171	ALA	N-CA	-5.58	1.39	1.46
1	f	229	LEU	C-N	5.58	1.41	1.33
1	B	173	GLU	C-N	5.58	1.41	1.33
2	k	51	ARG	CD-NE	5.58	1.54	1.46
1	G	63	THR	CA-C	-5.58	1.45	1.52
3	H	103	GLY	CA-C	-5.58	1.43	1.51
1	c	10	ARG	NE-CZ	5.57	1.39	1.33
1	c	241	ARG	NE-CZ	5.57	1.39	1.33
1	D	90	ASP	CA-C	-5.57	1.45	1.52
2	6	107	LEU	CA-CB	5.57	1.62	1.53
3	L	357	GLU	C-N	5.57	1.41	1.33
1	A	222	LYS	C-N	5.57	1.40	1.33
1	d	245	LYS	C-N	5.57	1.41	1.33
2	i	165	VAL	N-CA	-5.57	1.39	1.46
3	I	300	PRO	CA-C	-5.57	1.46	1.52
2	4	83	ARG	CD-NE	5.57	1.54	1.46
1	c	187	ASP	N-CA	-5.57	1.39	1.46
2	j	88	ARG	N-CA	-5.57	1.39	1.46
2	l	116	ASP	CA-CB	5.57	1.63	1.53
3	H	29	ARG	CZ-NH2	5.57	1.40	1.33
3	J	152	GLU	CA-CB	5.57	1.62	1.53
1	c	170	ALA	N-CA	-5.57	1.39	1.46
1	D	143	GLU	C-N	5.57	1.39	1.33
3	L	60	SER	C-O	-5.57	1.17	1.24
3	J	389	ILE	C-N	5.57	1.39	1.33
2	n	30	ARG	CA-C	-5.56	1.45	1.52
3	L	88	VAL	N-CA	-5.56	1.39	1.46
1	D	66	LYS	C-N	5.56	1.40	1.33
2	i	51	ARG	C-N	5.56	1.41	1.33
3	I	78	VAL	N-CA	-5.56	1.39	1.46
2	1	155	PHE	N-CA	-5.56	1.39	1.46
2	6	70	ILE	CA-C	-5.56	1.45	1.52
2	k	90	ILE	CB-CG1	5.56	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6	89	ALA	CA-C	-5.56	1.45	1.52
3	H	22	LYS	CA-CB	5.56	1.61	1.53
1	A	86	ARG	CZ-NH1	5.56	1.40	1.32
1	C	180	ARG	CD-NE	5.56	1.54	1.46
1	d	45	GLY	N-CA	-5.56	1.40	1.45
1	G	104	ASP	CA-CB	5.56	1.62	1.53
2	i	48	ILE	C-N	5.56	1.40	1.33
3	M	250	ARG	NE-CZ	5.55	1.39	1.33
1	A	187	ASP	CA-C	-5.55	1.45	1.52
1	b	67	ILE	C-N	5.55	1.41	1.33
1	f	107	ILE	CA-CB	5.55	1.60	1.54
2	5	143	GLY	C-N	5.55	1.41	1.33
1	E	6	MET	N-CA	5.55	1.52	1.46
1	e	58	LEU	CA-CB	5.55	1.63	1.53
1	b	97	GLN	N-CA	5.55	1.53	1.46
1	D	70	ILE	CA-C	-5.55	1.47	1.52
1	d	67	ILE	C-N	5.55	1.41	1.33
1	E	230	LYS	CA-CB	5.55	1.59	1.54
2	l	178	ARG	CD-NE	5.55	1.54	1.46
3	L	76	ARG	CD-NE	5.55	1.54	1.46
2	6	188	VAL	C-O	-5.54	1.18	1.24
1	C	29	GLU	CA-CB	5.54	1.62	1.53
1	e	78	THR	C-N	5.54	1.40	1.33
2	1	163	GLU	N-CA	-5.54	1.39	1.46
3	I	377	LYS	CA-CB	5.54	1.61	1.53
3	L	76	ARG	CZ-NH2	5.54	1.40	1.33
3	L	284	ILE	N-CA	-5.54	1.39	1.46
3	J	381	LYS	CA-C	-5.54	1.46	1.52
2	7	154	ARG	NE-CZ	5.54	1.39	1.33
1	g	80	GLY	N-CA	-5.54	1.38	1.44
2	5	212	ARG	CD-NE	5.54	1.54	1.46
1	B	100	ARG	CA-C	-5.54	1.45	1.52
1	B	188	ALA	CA-C	-5.54	1.45	1.52
1	c	196	MET	CA-CB	5.54	1.62	1.53
1	d	59	LEU	CA-C	-5.54	1.46	1.52
3	K	271	GLU	C-N	5.54	1.41	1.33
2	4	112	ILE	CA-C	-5.54	1.46	1.52
3	H	326	ARG	NE-CZ	5.54	1.39	1.33
1	f	47	ILE	CB-CG1	5.54	1.64	1.53
3	H	121	THR	CA-C	-5.54	1.45	1.53
3	L	166	LEU	CA-CB	5.54	1.62	1.53
3	J	194	ALA	CA-C	-5.54	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	382	VAL	CA-CB	-5.54	1.48	1.54
2	6	204	VAL	CA-CB	-5.53	1.47	1.54
3	M	253	SER	C-N	5.53	1.40	1.33
1	A	123	TYR	N-CA	-5.53	1.38	1.46
1	A	130	ARG	CD-NE	5.53	1.53	1.46
1	d	46	VAL	CA-C	-5.53	1.45	1.52
3	J	100	LEU	C-N	5.53	1.39	1.33
3	H	305	ARG	CA-C	-5.52	1.46	1.52
1	B	222	LYS	N-CA	-5.52	1.39	1.45
1	E	51	ASP	CA-CB	5.52	1.62	1.53
1	G	132	PHE	C-N	-5.52	1.25	1.33
1	g	67	ILE	C-N	5.52	1.41	1.33
2	5	131	ALA	CA-C	-5.52	1.45	1.52
3	I	17	GLU	N-CA	-5.52	1.39	1.46
3	L	180	LEU	C-N	5.52	1.38	1.33
3	M	226	VAL	CA-CB	-5.52	1.47	1.54
1	B	69	LYS	CA-CB	5.52	1.61	1.53
1	D	240	ILE	CA-C	5.52	1.59	1.52
2	7	94	THR	C-N	5.52	1.40	1.33
1	f	80	GLY	N-CA	5.52	1.51	1.45
2	h	57	ALA	N-CA	-5.52	1.39	1.45
2	4	172	ILE	N-CA	-5.52	1.39	1.46
1	a	242	GLU	N-CA	-5.51	1.39	1.46
1	d	158	GLU	CA-C	-5.51	1.46	1.52
2	l	117	SER	CA-CB	5.51	1.62	1.53
3	M	76	ARG	NE-CZ	5.51	1.39	1.33
1	E	202	SER	CA-C	-5.51	1.45	1.52
1	D	36	THR	CA-C	-5.51	1.45	1.52
2	2	196	PHE	CA-CB	5.51	1.66	1.53
2	3	35	ASN	C-N	5.51	1.41	1.33
3	L	380	GLU	CA-C	-5.51	1.45	1.52
2	5	83	ARG	CA-CB	5.50	1.62	1.53
1	a	46	VAL	CA-CB	-5.50	1.47	1.54
1	C	130	ARG	CA-CB	5.50	1.61	1.53
1	g	201	GLU	CA-C	5.50	1.60	1.52
2	h	143	GLY	C-N	5.50	1.41	1.33
2	2	118	GLU	C-N	5.50	1.41	1.33
1	e	219	ARG	N-CA	-5.50	1.38	1.46
2	2	57	ALA	N-CA	-5.50	1.40	1.46
1	E	228	GLU	CA-C	-5.50	1.44	1.52
2	i	156	THR	CA-CB	5.50	1.60	1.54
2	j	47	GLN	CA-C	-5.50	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7	178	ARG	N-CA	-5.50	1.41	1.46
1	D	235	ARG	CZ-NH1	5.49	1.40	1.32
1	d	89	ILE	CA-CB	5.49	1.62	1.54
1	E	32	LYS	CA-C	-5.49	1.45	1.52
3	J	50	ARG	NE-CZ	5.49	1.39	1.33
1	a	40	ILE	N-CA	-5.49	1.39	1.46
2	k	200	SER	CA-CB	5.49	1.62	1.53
3	J	94	TYR	CA-C	-5.49	1.45	1.52
1	B	72	GLU	N-CA	-5.49	1.39	1.46
1	G	70	ILE	CA-C	-5.49	1.47	1.52
2	h	190	LYS	CA-C	-5.49	1.46	1.52
2	m	155	PHE	CA-C	-5.49	1.45	1.52
3	L	314	PHE	C-N	5.49	1.41	1.34
1	d	86	ARG	CZ-NH1	5.49	1.40	1.32
2	h	184	ASP	CA-CB	5.49	1.63	1.53
2	n	72	ILE	N-CA	-5.49	1.39	1.46
2	1	31	ALA	CA-C	-5.49	1.45	1.52
1	G	107	ILE	CA-CB	5.49	1.59	1.54
2	3	143	GLY	N-CA	5.49	1.53	1.45
2	7	71	LYS	N-CA	-5.49	1.39	1.46
1	b	136	LEU	CA-C	-5.48	1.46	1.52
1	e	27	ALA	CA-C	-5.48	1.45	1.52
1	a	100	ARG	NE-CZ	5.48	1.39	1.33
2	4	132	ILE	CA-C	-5.48	1.46	1.52
3	I	24	ARG	NE-CZ	5.48	1.39	1.33
3	L	378	ALA	CA-C	-5.48	1.45	1.52
2	h	159	ILE	CA-CB	5.48	1.61	1.54
1	G	215	LYS	C-N	5.48	1.40	1.33
1	a	79	SER	CA-C	-5.48	1.46	1.52
1	E	173	GLU	C-N	5.48	1.40	1.33
1	g	153	SER	CA-CB	5.48	1.61	1.53
2	4	19	CYS	CA-C	-5.48	1.45	1.53
2	4	83	ARG	NE-CZ	5.48	1.39	1.33
3	H	250	ARG	NE-CZ	5.48	1.39	1.33
3	J	154	ARG	CA-C	-5.48	1.45	1.52
1	c	20	ARG	CZ-NH2	5.48	1.40	1.33
2	1	202	GLU	CA-CB	5.48	1.61	1.53
1	C	203	GLU	C-N	5.47	1.40	1.33
1	D	53	ARG	N-CA	-5.47	1.39	1.46
2	2	123	TYR	C-N	5.47	1.40	1.33
2	l	66	LEU	CA-C	-5.47	1.45	1.52
3	H	35	LYS	CA-C	-5.47	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	64	ILE	CA-C	-5.47	1.45	1.52
1	D	47	ILE	N-CA	-5.47	1.39	1.46
1	E	179	TYR	CA-C	-5.47	1.45	1.52
1	e	243	LEU	C-N	5.47	1.41	1.33
1	F	105	GLU	C-N	5.47	1.41	1.33
2	5	156	THR	CA-CB	5.47	1.60	1.53
2	7	149	GLY	CA-C	-5.47	1.46	1.52
1	C	89	ILE	C-N	5.47	1.41	1.34
2	i	131	ALA	N-CA	-5.47	1.39	1.46
3	M	387	THR	C-O	-5.47	1.17	1.24
1	a	159	TYR	CA-C	-5.47	1.46	1.52
1	g	178	GLU	CA-C	-5.47	1.46	1.52
1	g	205	VAL	C-N	-5.47	1.28	1.34
3	H	277	PRO	CA-C	-5.47	1.45	1.52
3	I	76	ARG	CD-NE	5.47	1.53	1.46
1	c	33	ARG	CZ-NH2	5.46	1.40	1.33
2	m	115	ILE	C-O	5.46	1.29	1.24
3	I	151	GLU	CA-CB	5.46	1.62	1.53
3	I	196	ALA	C-N	5.46	1.41	1.34
1	C	160	LYS	C-N	5.46	1.40	1.33
2	h	158	GLU	CA-CB	5.46	1.61	1.53
3	K	367	ARG	CZ-NH1	5.46	1.40	1.32
3	L	190	LEU	CA-C	-5.46	1.45	1.52
2	l	188	VAL	C-N	5.46	1.40	1.33
3	L	34	LYS	N-CA	-5.46	1.39	1.46
3	J	300	PRO	N-CA	-5.46	1.40	1.47
1	F	170	ALA	C-N	5.46	1.40	1.33
2	3	81	ARG	CZ-NH2	5.46	1.40	1.33
2	5	161	VAL	CA-CB	-5.46	1.47	1.54
3	J	292	ILE	C-N	5.46	1.41	1.33
1	d	129	VAL	N-CA	-5.46	1.40	1.46
2	7	207	ILE	N-CA	5.46	1.53	1.46
3	J	64	LEU	CA-C	-5.46	1.45	1.52
1	f	28	ARG	CZ-NH1	5.46	1.40	1.32
2	k	191	ILE	N-CA	-5.46	1.39	1.46
3	M	73	GLU	C-N	5.46	1.40	1.33
3	M	364	ARG	CA-CB	5.46	1.61	1.53
1	d	112	LEU	C-O	-5.45	1.17	1.24
1	G	52	LYS	CA-C	-5.45	1.46	1.52
3	I	61	PRO	N-CD	5.45	1.55	1.47
1	E	185	PHE	N-CA	-5.45	1.39	1.46
2	7	72	ILE	C-O	-5.45	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	31	GLU	N-CA	-5.45	1.39	1.46
3	K	341	ARG	CZ-NH1	5.45	1.40	1.32
1	A	53	ARG	CZ-NH1	5.45	1.40	1.32
1	a	140	GLY	C-N	5.45	1.40	1.33
1	b	130	ARG	CZ-NH1	5.45	1.40	1.32
1	G	166	MET	CA-CB	5.45	1.61	1.53
2	4	90	ILE	CA-C	-5.45	1.45	1.52
3	J	41	ARG	NE-CZ	5.45	1.39	1.33
1	B	20	ARG	N-CA	5.44	1.52	1.45
1	B	219	ARG	CZ-NH2	5.44	1.40	1.33
1	E	106	PRO	C-N	5.44	1.40	1.33
1	e	169	ASN	N-CA	-5.44	1.40	1.46
1	E	86	ARG	NE-CZ	5.44	1.39	1.33
3	H	259	ARG	CA-CB	5.44	1.61	1.53
1	a	49	ILE	CB-CG1	5.44	1.64	1.53
1	f	205	VAL	CA-CB	-5.44	1.47	1.54
2	7	182	SER	N-CA	-5.44	1.39	1.46
2	7	183	GLY	CA-C	-5.44	1.46	1.52
3	H	297	ILE	N-CA	-5.44	1.39	1.46
3	J	216	ILE	CA-C	-5.44	1.46	1.52
1	C	148	TYR	CA-C	-5.44	1.46	1.52
1	D	20	ARG	CA-C	-5.44	1.46	1.52
1	F	201	GLU	C-N	5.44	1.40	1.33
2	1	185	GLY	CA-C	-5.44	1.45	1.52
3	K	261	VAL	CA-C	-5.44	1.45	1.52
3	L	97	GLU	N-CA	-5.44	1.39	1.46
3	L	303	PHE	CA-C	-5.44	1.45	1.52
1	d	124	THR	N-CA	-5.43	1.38	1.46
3	H	375	PHE	CA-C	-5.43	1.45	1.52
1	F	123	TYR	C-N	5.43	1.41	1.33
2	h	200	SER	CA-CB	5.43	1.62	1.53
2	i	35	ASN	N-CA	-5.43	1.39	1.46
2	j	36	PHE	N-CA	-5.43	1.39	1.46
2	m	23	VAL	CA-C	-5.43	1.45	1.52
1	f	147	LEU	N-CA	-5.43	1.39	1.46
3	J	22	LYS	CA-C	-5.43	1.45	1.52
1	B	169	ASN	N-CA	-5.43	1.39	1.46
2	i	163	GLU	CA-C	-5.43	1.45	1.52
2	3	154	ARG	NE-CZ	5.42	1.39	1.33
2	k	188	VAL	CA-C	-5.42	1.46	1.52
3	M	103	GLY	C-N	5.42	1.41	1.33
1	B	130	ARG	NE-CZ	5.42	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	89	VAL	CA-C	-5.42	1.45	1.53
3	K	198	GLN	C-N	5.42	1.41	1.34
3	M	353	ALA	C-N	5.42	1.40	1.33
1	A	152	PRO	C-N	5.42	1.41	1.33
2	3	67	ALA	N-CA	-5.42	1.39	1.46
3	H	52	ARG	NE-CZ	5.42	1.39	1.33
3	I	365	GLU	CA-C	-5.42	1.45	1.52
1	g	23	GLN	N-CA	-5.42	1.40	1.46
2	k	48	ILE	CB-CG1	5.42	1.64	1.53
3	H	378	ALA	CA-CB	5.42	1.61	1.53
3	M	210	GLU	C-N	5.42	1.41	1.33
1	b	28	ARG	CD-NE	5.42	1.53	1.46
1	B	241	ARG	CA-C	-5.41	1.45	1.52
1	F	148	TYR	CA-C	-5.41	1.46	1.52
1	G	178	GLU	CA-CB	5.41	1.62	1.53
2	h	140	THR	CA-C	-5.41	1.45	1.52
2	3	52	MET	CA-C	5.41	1.59	1.52
2	6	38	ALA	CA-C	-5.41	1.45	1.52
3	L	263	ARG	CZ-NH1	5.41	1.40	1.32
3	L	348	GLY	CA-C	-5.41	1.45	1.52
3	K	386	THR	C-N	5.41	1.38	1.33
1	A	97	GLN	N-CA	-5.41	1.39	1.46
1	A	180	ARG	CZ-NH2	5.41	1.40	1.33
2	h	76	LEU	CA-CB	5.41	1.61	1.53
2	h	117	SER	N-CA	5.41	1.53	1.46
2	4	107	LEU	CA-C	-5.41	1.47	1.53
1	A	77	ALA	CA-C	-5.41	1.45	1.52
3	H	97	GLU	C-N	5.41	1.41	1.34
1	g	151	ASP	C-O	-5.41	1.18	1.23
2	h	29	LYS	C-N	5.41	1.40	1.33
2	h	164	ALA	C-N	5.41	1.40	1.33
2	4	111	LEU	CA-C	-5.41	1.46	1.52
1	F	231	PRO	CA-CB	5.40	1.61	1.53
2	3	51	ARG	NE-CZ	5.40	1.39	1.33
2	5	211	PHE	CA-CB	5.40	1.63	1.53
2	6	30	ARG	NE-CZ	5.40	1.39	1.33
3	H	249	ARG	NE-CZ	5.40	1.39	1.33
1	d	91	ARG	CZ-NH2	5.40	1.40	1.33
1	F	215	LYS	CA-C	5.40	1.60	1.53
1	e	183	LEU	CA-CB	5.40	1.61	1.53
2	1	154	ARG	CA-C	-5.40	1.45	1.52
2	n	30	ARG	CA-CB	5.40	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	222	LEU	CB-CG	5.40	1.64	1.53
3	L	294	ASP	CA-CB	5.40	1.61	1.53
3	M	238	ILE	C-N	5.40	1.40	1.33
1	B	231	PRO	C-N	5.39	1.41	1.34
3	L	24	ARG	C-N	5.39	1.41	1.34
3	J	278	ARG	CZ-NH2	5.39	1.40	1.33
1	f	74	ILE	C-O	-5.39	1.18	1.24
2	2	30	ARG	CD-NE	5.39	1.53	1.46
2	4	35	ASN	N-CA	-5.39	1.39	1.46
3	M	104	ALA	CA-C	-5.39	1.45	1.52
1	a	179	TYR	CA-CB	5.39	1.61	1.53
1	C	178	GLU	CA-C	-5.39	1.45	1.52
2	l	206	GLN	N-CA	-5.39	1.38	1.46
1	C	187	ASP	CA-C	-5.39	1.45	1.52
2	i	101	TYR	C-N	5.39	1.41	1.33
3	L	199	THR	N-CA	5.39	1.53	1.46
1	E	199	SER	C-N	5.39	1.40	1.33
2	2	186	ILE	N-CA	-5.39	1.39	1.46
3	L	158	GLU	CA-CB	-5.39	1.45	1.53
1	A	103	TYR	CA-C	-5.39	1.46	1.52
1	A	236	ALA	N-CA	-5.39	1.39	1.46
1	C	35	ALA	CA-CB	5.39	1.62	1.53
1	g	46	VAL	N-CA	-5.39	1.39	1.46
1	g	149	GLU	CA-C	-5.39	1.46	1.52
2	6	181	ALA	CA-C	-5.39	1.46	1.52
3	I	113	LEU	CA-CB	5.39	1.61	1.53
1	B	115	LYS	CA-CB	5.38	1.62	1.53
3	M	24	ARG	CZ-NH2	5.38	1.40	1.33
1	B	6	MET	CA-C	-5.38	1.46	1.52
3	H	257	GLY	N-CA	-5.38	1.38	1.45
3	M	234	ALA	CA-C	5.38	1.58	1.53
1	a	214	VAL	CA-C	-5.38	1.45	1.52
1	E	182	ASP	CA-C	-5.38	1.46	1.53
2	3	121	SER	C-O	-5.38	1.17	1.23
3	H	382	VAL	CA-C	5.38	1.59	1.52
3	M	32	ASP	CA-CB	5.38	1.61	1.53
1	E	215	LYS	CA-C	-5.38	1.46	1.52
1	E	138	ILE	C-N	5.38	1.41	1.33
1	f	121	GLN	CA-CB	5.38	1.62	1.53
2	k	184	ASP	C-N	5.38	1.40	1.32
3	H	209	SER	C-N	5.38	1.41	1.33
1	B	36	THR	CA-C	-5.38	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	10	ARG	NE-CZ	5.38	1.39	1.33
2	3	156	THR	CA-C	5.38	1.57	1.52
3	K	196	ALA	CA-C	-5.38	1.45	1.52
2	k	184	ASP	CA-C	-5.38	1.45	1.52
3	L	261	VAL	CA-C	-5.38	1.46	1.52
1	D	53	ARG	C-N	5.37	1.38	1.33
2	h	57	ALA	C-N	5.37	1.41	1.33
3	H	317	ARG	NE-CZ	5.37	1.39	1.33
1	d	80	GLY	N-CA	-5.37	1.39	1.45
1	E	104	ASP	CA-CB	5.37	1.61	1.53
1	f	60	GLU	CA-CB	5.37	1.61	1.53
1	g	28	ARG	CZ-NH2	5.37	1.40	1.33
2	j	27	THR	N-CA	-5.37	1.38	1.45
2	m	85	PRO	CA-CB	-5.37	1.46	1.53
3	I	42	ILE	CA-CB	-5.37	1.47	1.54
3	K	225	GLU	C-N	5.37	1.40	1.33
2	k	212	ARG	CD-NE	5.37	1.53	1.46
2	7	210	LYS	CA-C	-5.37	1.45	1.52
1	F	109	VAL	C-N	5.37	1.41	1.33
1	g	139	ALA	C-O	-5.37	1.17	1.24
2	k	128	ILE	CA-CB	5.37	1.61	1.54
2	5	80	ARG	CZ-NH1	5.37	1.40	1.32
2	m	83	ARG	CD-NE	5.37	1.53	1.46
2	n	19	CYS	CA-C	-5.37	1.45	1.53
3	L	396	MET	CA-CB	5.37	1.62	1.53
1	E	178	GLU	C-N	5.37	1.40	1.33
3	H	283	VAL	CA-CB	-5.37	1.47	1.54
1	G	227	GLU	N-CA	-5.36	1.38	1.46
2	h	107	LEU	N-CA	-5.36	1.40	1.46
1	c	165	GLY	CA-C	-5.36	1.46	1.52
1	F	168	ARG	CZ-NH1	5.36	1.40	1.32
1	f	35	ALA	N-CA	-5.36	1.39	1.45
2	5	160	GLY	CA-C	-5.36	1.43	1.52
3	M	64	LEU	CA-C	-5.36	1.45	1.52
2	m	115	ILE	CA-C	-5.36	1.46	1.52
3	H	49	ARG	CD-NE	5.36	1.53	1.46
1	G	187	ASP	N-CA	-5.36	1.40	1.46
1	g	14	VAL	CA-CB	-5.36	1.47	1.53
2	2	83	ARG	CD-NE	5.36	1.53	1.46
1	a	230	LYS	C-O	5.36	1.29	1.24
1	C	185	PHE	CA-C	5.36	1.59	1.52
1	E	53	ARG	CD-NE	5.36	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	17	PRO	N-CD	5.36	1.55	1.47
2	2	80	ARG	NE-CZ	5.36	1.39	1.33
3	K	364	ARG	CD-NE	5.36	1.53	1.46
3	J	198	GLN	CA-C	-5.36	1.46	1.52
2	4	39	SER	N-CA	5.35	1.52	1.45
2	n	160	GLY	CA-C	-5.35	1.45	1.52
1	b	23	GLN	N-CA	-5.35	1.39	1.46
1	C	214	VAL	N-CA	-5.35	1.38	1.46
2	2	177	LYS	C-N	5.35	1.41	1.33
2	6	178	ARG	CZ-NH2	5.35	1.40	1.33
3	H	152	GLU	C-N	5.35	1.40	1.33
1	F	105	GLU	CA-C	-5.35	1.46	1.52
1	B	45	GLY	CA-C	-5.35	1.46	1.51
1	B	138	ILE	CA-CB	-5.35	1.47	1.54
1	F	228	GLU	N-CA	-5.35	1.39	1.46
2	i	59	SER	C-N	5.35	1.40	1.33
2	j	209	ALA	N-CA	-5.35	1.40	1.46
1	F	214	VAL	CA-C	-5.35	1.46	1.52
3	K	272	LEU	C-O	-5.35	1.17	1.24
2	4	183	GLY	C-N	5.35	1.40	1.33
1	b	214	VAL	CA-CB	-5.34	1.47	1.54
2	1	116	ASP	CA-CB	5.34	1.62	1.53
3	M	104	ALA	CA-CB	5.34	1.60	1.53
3	J	120	PRO	C-N	5.34	1.41	1.33
1	b	191	LEU	CA-C	-5.34	1.45	1.52
1	C	116	ILE	CA-C	-5.34	1.45	1.52
2	7	62	ASP	CA-CB	5.34	1.61	1.53
3	J	52	ARG	CD-NE	5.34	1.53	1.46
1	D	88	LEU	C-N	5.34	1.40	1.33
1	G	40	ILE	CA-CB	-5.34	1.47	1.54
2	h	175	ALA	N-CA	-5.34	1.39	1.46
2	n	90	ILE	C-N	5.34	1.41	1.33
1	C	193	LEU	CA-C	5.34	1.59	1.52
3	J	232	GLU	N-CA	-5.34	1.39	1.46
1	C	28	ARG	CA-C	-5.34	1.45	1.52
3	H	205	ARG	NE-CZ	5.34	1.39	1.33
2	m	211	PHE	N-CA	-5.33	1.39	1.46
2	5	154	ARG	CA-CB	5.33	1.63	1.53
3	J	250	ARG	CA-CB	5.33	1.61	1.53
1	C	47	ILE	CB-CG1	5.33	1.64	1.53
1	D	162	THR	C-O	-5.33	1.17	1.23
2	3	46	TYR	CA-C	-5.33	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7	154	ARG	C-N	5.33	1.41	1.33
2	h	80	ARG	CZ-NH2	5.33	1.40	1.33
2	6	109	GLN	C-N	5.33	1.41	1.33
1	A	78	THR	C-N	5.33	1.40	1.33
1	a	179	TYR	CA-C	-5.33	1.45	1.52
1	F	58	LEU	CB-CG	5.33	1.64	1.53
2	j	132	ILE	CA-C	-5.33	1.46	1.52
3	H	35	LYS	C-N	5.33	1.41	1.33
1	a	68	TYR	CB-CG	-5.33	1.40	1.51
1	C	239	ARG	C-O	-5.33	1.17	1.24
1	D	191	LEU	N-CA	-5.33	1.39	1.46
3	I	341	ARG	CZ-NH2	5.33	1.40	1.33
1	g	91	ARG	CZ-NH1	5.32	1.40	1.32
2	2	204	VAL	N-CA	-5.32	1.40	1.46
1	a	29	GLU	C-O	-5.32	1.17	1.24
2	3	61	GLY	CA-C	-5.32	1.44	1.51
3	J	305	ARG	C-N	5.32	1.40	1.33
3	I	57	ARG	CZ-NH1	5.32	1.40	1.32
3	I	40	GLU	N-CA	5.32	1.53	1.46
3	J	276	ASP	CA-C	5.32	1.59	1.53
1	a	120	LYS	N-CA	-5.32	1.39	1.46
1	E	68	TYR	N-CA	-5.32	1.39	1.45
2	l	155	PHE	CA-C	-5.32	1.46	1.52
3	H	156	ALA	N-CA	-5.32	1.39	1.46
3	J	232	GLU	CA-CB	5.32	1.61	1.53
1	D	31	VAL	CA-C	-5.31	1.46	1.52
1	g	224	VAL	C-O	5.31	1.30	1.24
2	4	186	ILE	CA-CB	-5.31	1.47	1.54
2	m	141	GLY	C-O	-5.31	1.18	1.24
2	7	154	ARG	N-CA	-5.31	1.39	1.46
3	I	227	PHE	CA-C	-5.31	1.46	1.52
1	B	135	SER	CA-C	-5.31	1.46	1.52
1	G	105	GLU	N-CA	-5.31	1.37	1.45
2	j	83	ARG	CD-NE	5.31	1.53	1.46
3	J	333	ASP	CA-CB	5.31	1.60	1.53
1	F	222	LYS	CA-C	-5.31	1.46	1.52
3	L	83	THR	CA-C	-5.31	1.46	1.52
3	M	53	SER	CA-CB	5.31	1.61	1.53
1	A	35	ALA	C-N	5.31	1.41	1.33
3	I	105	ARG	CZ-NH1	5.31	1.40	1.32
1	G	236	ALA	C-N	5.31	1.41	1.34
2	h	64	GLN	N-CA	-5.30	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	355	CYS	C-N	5.30	1.41	1.33
3	I	152	GLU	CA-C	-5.30	1.45	1.52
1	A	106	PRO	N-CD	5.30	1.55	1.47
2	3	18	VAL	C-N	5.30	1.42	1.33
2	k	193	GLU	N-CA	-5.30	1.39	1.46
3	H	387	THR	C-O	-5.30	1.17	1.24
1	a	192	GLY	N-CA	-5.30	1.39	1.45
1	D	147	LEU	CA-C	-5.30	1.46	1.52
2	h	206	GLN	CA-CB	5.30	1.63	1.53
2	j	176	MET	CA-CB	5.30	1.61	1.53
2	4	105	PRO	C-N	5.30	1.40	1.33
2	7	42	ALA	C-N	5.30	1.40	1.33
3	L	200	ARG	CD-NE	5.30	1.53	1.46
1	a	103	TYR	N-CA	-5.30	1.39	1.46
1	G	22	PHE	CA-C	-5.30	1.45	1.52
1	G	209	ILE	CA-C	-5.30	1.46	1.52
1	g	30	ALA	CA-CB	5.30	1.61	1.53
2	2	172	ILE	N-CA	5.30	1.53	1.46
2	m	189	VAL	CA-C	-5.30	1.45	1.52
3	M	248	ALA	CA-CB	-5.30	1.44	1.53
3	L	95	ILE	N-CA	-5.29	1.39	1.46
1	d	148	TYR	C-N	5.29	1.40	1.33
1	f	91	ARG	CD-NE	5.29	1.53	1.46
2	1	124	SER	C-N	5.29	1.40	1.33
2	i	91	ALA	CA-C	-5.29	1.45	1.52
3	K	300	PRO	CA-C	-5.29	1.47	1.52
1	D	111	GLU	CA-CB	5.29	1.61	1.53
1	f	199	SER	C-N	5.29	1.40	1.34
3	K	23	LEU	CA-CB	5.29	1.61	1.53
3	L	41	ARG	C-N	5.29	1.40	1.33
2	i	125	ILE	CA-C	5.29	1.59	1.52
3	L	286	ALA	N-CA	-5.29	1.39	1.46
1	d	149	GLU	N-CA	-5.29	1.39	1.46
2	6	68	ARG	CD-NE	5.29	1.53	1.46
3	I	384	LYS	CA-C	-5.29	1.46	1.52
3	J	379	ILE	CA-C	-5.29	1.46	1.52
2	2	144	SER	N-CA	-5.29	1.40	1.46
2	5	176	MET	N-CA	-5.29	1.39	1.46
2	1	158	GLU	CA-CB	5.28	1.60	1.53
2	j	109	GLN	CA-CB	5.28	1.61	1.53
2	l	123	TYR	C-N	5.28	1.40	1.33
1	d	168	ARG	CD-NE	5.28	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	m	53	ALA	CA-C	-5.28	1.46	1.52
2	n	102	ARG	CZ-NH2	5.28	1.40	1.33
2	k	189	VAL	CA-C	-5.28	1.46	1.52
3	H	349	ALA	CA-CB	5.28	1.61	1.53
3	I	270	ALA	C-N	5.28	1.41	1.34
1	d	21	LEU	CA-C	-5.28	1.46	1.53
2	j	112	ILE	C-N	5.28	1.40	1.33
3	H	224	ARG	CD-NE	5.28	1.53	1.46
1	e	73	HIS	ND1-CE1	5.28	1.37	1.32
1	G	146	LYS	N-CA	5.28	1.52	1.45
3	M	203	PHE	CA-CB	5.28	1.60	1.53
1	A	220	THR	C-O	-5.27	1.17	1.23
2	2	28	GLU	CA-C	-5.27	1.45	1.53
2	i	61	GLY	C-N	5.27	1.40	1.33
2	j	170	ARG	CZ-NH2	5.27	1.40	1.33
3	K	182	GLY	CA-C	-5.27	1.44	1.51
2	k	212	ARG	NE-CZ	5.27	1.38	1.33
2	5	139	ALA	C-N	5.27	1.40	1.33
2	6	180	SER	CA-C	-5.27	1.45	1.52
1	a	53	ARG	NE-CZ	5.27	1.38	1.33
1	F	121	GLN	CA-CB	5.27	1.62	1.53
2	k	196	PHE	CA-CB	5.27	1.60	1.53
3	H	16	LEU	N-CA	-5.27	1.40	1.46
1	E	66	LYS	CA-C	-5.27	1.45	1.52
2	l	46	TYR	CA-C	-5.27	1.46	1.52
1	c	133	GLY	CA-C	5.27	1.59	1.51
2	l	97	LEU	C-O	-5.27	1.18	1.24
1	E	46	VAL	CA-C	5.26	1.59	1.52
1	g	130	ARG	CZ-NH2	5.26	1.40	1.33
2	2	202	GLU	CA-CB	5.26	1.61	1.53
1	B	235	ARG	CZ-NH1	5.26	1.40	1.32
1	D	135	SER	C-N	5.26	1.40	1.33
1	f	191	LEU	CA-CB	5.26	1.61	1.53
1	a	231	PRO	CA-C	-5.26	1.43	1.52
2	7	158	GLU	N-CA	-5.26	1.39	1.46
2	j	187	ASP	CA-CB	5.26	1.62	1.53
2	5	198	GLN	CA-C	-5.26	1.46	1.52
3	H	106	VAL	CA-C	-5.26	1.46	1.52
3	M	205	ARG	CA-CB	5.26	1.60	1.53
1	b	241	ARG	CA-CB	5.26	1.61	1.53
2	6	78	GLU	CA-C	-5.26	1.46	1.52
1	a	214	VAL	N-CA	-5.26	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	43	LYS	C-N	5.26	1.40	1.33
2	1	68	ARG	NE-CZ	5.26	1.38	1.33
2	1	104	PHE	CA-CB	5.26	1.60	1.53
2	j	193	GLU	N-CA	-5.26	1.39	1.46
3	L	25	GLU	CA-CB	5.26	1.62	1.53
3	K	157	VAL	N-CA	-5.25	1.39	1.46
2	m	65	PHE	CA-C	5.25	1.59	1.52
3	J	221	ARG	CA-CB	5.25	1.61	1.53
1	B	135	SER	N-CA	-5.25	1.39	1.46
1	C	108	THR	CB-OG1	-5.25	1.35	1.43
2	m	66	LEU	N-CA	-5.25	1.39	1.46
3	J	200	ARG	CZ-NH2	5.25	1.40	1.33
1	D	186	ASP	C-N	5.25	1.41	1.33
3	L	92	SER	CA-C	-5.25	1.46	1.53
3	I	96	ASN	C-N	5.25	1.40	1.33
3	L	52	ARG	N-CA	5.25	1.52	1.46
1	d	44	GLU	N-CA	-5.25	1.38	1.46
2	4	52	MET	N-CA	-5.25	1.39	1.46
2	k	39	SER	C-N	5.25	1.40	1.33
3	M	240	ILE	CA-C	-5.25	1.46	1.52
3	J	339	LEU	CA-C	-5.25	1.46	1.52
2	2	174	SER	C-N	5.25	1.41	1.33
1	b	163	ALA	C-O	5.24	1.30	1.23
1	b	195	ALA	N-CA	-5.24	1.40	1.46
2	n	104	PHE	CA-CB	5.24	1.60	1.54
3	K	326	ARG	CD-NE	5.24	1.53	1.46
1	A	112	LEU	N-CA	-5.24	1.40	1.46
1	a	239	ARG	CZ-NH1	5.24	1.40	1.32
3	J	332	GLU	CA-CB	5.24	1.61	1.53
1	B	134	VAL	N-CA	-5.24	1.40	1.46
2	j	183	GLY	N-CA	-5.24	1.39	1.45
3	M	380	GLU	C-N	5.24	1.40	1.33
2	6	176	MET	N-CA	-5.24	1.40	1.46
1	D	91	ARG	CD-NE	5.24	1.53	1.46
1	e	206	PRO	N-CD	-5.24	1.40	1.47
3	I	324	HIS	CE1-NE2	-5.24	1.27	1.32
1	B	41	LYS	CA-C	-5.23	1.46	1.52
1	d	130	ARG	NE-CZ	5.23	1.38	1.33
3	I	294	ASP	CA-C	-5.23	1.47	1.53
3	M	28	ARG	NE-CZ	5.23	1.38	1.33
3	M	159	LEU	CA-CB	5.23	1.60	1.53
1	b	48	LEU	N-CA	-5.23	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	73	HIS	ND1-CE1	5.23	1.37	1.32
1	f	177	LYS	C-N	5.23	1.40	1.33
3	L	306	ILE	N-CA	-5.23	1.40	1.46
1	E	51	ASP	N-CA	-5.23	1.39	1.46
2	7	211	PHE	CA-CB	5.23	1.60	1.53
3	L	59	ARG	CA-C	-5.23	1.45	1.52
1	F	230	LYS	N-CA	-5.22	1.41	1.46
2	2	53	ALA	CA-C	5.22	1.59	1.52
3	H	27	TYR	C-O	-5.22	1.17	1.24
3	H	106	VAL	C-N	5.22	1.40	1.33
3	K	341	ARG	NE-CZ	5.22	1.38	1.33
1	a	115	LYS	CA-C	-5.22	1.46	1.52
1	c	48	LEU	N-CA	-5.22	1.39	1.46
1	g	33	ARG	CD-NE	5.22	1.53	1.46
2	1	150	VAL	C-O	-5.22	1.18	1.24
2	j	158	GLU	CA-C	-5.22	1.46	1.53
2	4	65	PHE	CA-CB	5.22	1.61	1.53
2	l	197	TYR	CA-CB	5.22	1.62	1.53
3	I	267	GLN	C-N	5.22	1.40	1.33
1	C	205	VAL	N-CA	-5.22	1.42	1.46
1	D	93	ARG	CZ-NH1	5.22	1.40	1.32
1	d	49	ILE	CA-C	-5.22	1.46	1.52
2	n	70	ILE	CA-C	-5.22	1.46	1.52
1	d	245	LYS	CA-CB	5.22	1.61	1.54
2	1	178	ARG	CZ-NH1	5.22	1.40	1.32
3	H	259	ARG	CZ-NH1	5.22	1.40	1.32
2	l	20	LYS	N-CA	-5.22	1.39	1.46
2	j	105	PRO	C-N	5.22	1.40	1.33
2	4	116	ASP	N-CA	-5.22	1.39	1.46
3	K	191	LEU	CA-CB	5.22	1.61	1.53
1	B	190	VAL	CA-C	-5.21	1.46	1.52
1	e	22	PHE	CA-C	-5.21	1.46	1.52
1	f	173	GLU	C-O	-5.21	1.18	1.24
2	j	92	THR	C-N	5.21	1.41	1.33
1	C	191	LEU	N-CA	5.21	1.52	1.46
2	j	27	THR	C-N	5.21	1.40	1.33
1	C	137	LEU	C-N	5.21	1.40	1.33
2	i	71	LYS	N-CA	-5.21	1.40	1.46
2	3	168	ALA	CA-C	-5.21	1.46	1.52
3	J	287	THR	CA-C	-5.21	1.46	1.52
1	F	230	LYS	C-N	5.21	1.40	1.33
2	h	194	ASP	CA-C	-5.21	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3	130	GLY	N-CA	-5.21	1.37	1.45
2	3	212	ARG	CZ-NH2	5.21	1.40	1.33
3	I	320	ILE	N-CA	-5.21	1.40	1.46
2	6	62	ASP	CA-C	-5.21	1.46	1.52
3	H	125	PRO	C-O	5.21	1.30	1.24
3	H	201	ALA	N-CA	-5.21	1.38	1.46
3	K	50	ARG	CA-C	5.21	1.59	1.52
1	f	208	ASN	N-CA	5.21	1.52	1.46
1	C	21	LEU	N-CA	-5.20	1.39	1.46
3	J	104	ALA	C-N	5.20	1.40	1.33
1	e	197	GLY	N-CA	5.20	1.52	1.45
3	J	336	PHE	C-N	5.20	1.41	1.33
1	B	138	ILE	C-O	-5.20	1.18	1.24
1	c	69	LYS	CA-CB	5.20	1.60	1.53
2	5	75	ASN	CA-C	-5.20	1.46	1.52
3	J	76	ARG	NE-CZ	5.20	1.38	1.33
1	g	166	MET	CA-C	-5.20	1.46	1.52
3	I	59	ARG	CZ-NH1	5.20	1.40	1.32
3	L	131	GLU	C-N	5.20	1.40	1.33
2	5	55	THR	N-CA	-5.20	1.39	1.46
1	C	16	SER	C-N	-5.20	1.28	1.34
1	e	35	ALA	N-CA	-5.20	1.39	1.45
1	e	36	THR	CA-C	-5.20	1.46	1.53
1	e	154	GLY	CA-C	-5.20	1.44	1.51
2	m	199	TYR	CA-C	5.20	1.59	1.52
2	7	81	ARG	CA-C	-5.20	1.45	1.52
3	M	168	ALA	CA-CB	5.20	1.61	1.53
2	2	186	ILE	C-N	5.19	1.40	1.33
2	n	57	ALA	N-CA	-5.19	1.39	1.46
1	b	238	GLU	CG-CD	5.19	1.65	1.52
3	H	313	THR	CA-CB	5.19	1.60	1.53
1	A	168	ARG	CZ-NH1	5.19	1.40	1.32
1	B	28	ARG	CA-C	5.19	1.59	1.52
3	M	284	ILE	CA-C	-5.19	1.46	1.52
2	5	83	ARG	N-CA	-5.19	1.39	1.46
2	l	91	ALA	C-N	5.19	1.41	1.34
2	n	83	ARG	CA-C	-5.19	1.46	1.52
1	A	21	LEU	CA-CB	5.19	1.59	1.53
1	B	42	CYS	CA-CB	5.19	1.61	1.53
1	B	110	LYS	CA-CB	5.19	1.61	1.53
1	f	10	ARG	NE-CZ	5.19	1.38	1.33
2	4	45	ILE	CA-CB	-5.19	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	209	SER	N-CA	5.19	1.53	1.46
1	D	104	ASP	CA-C	-5.19	1.46	1.53
3	I	316	GLY	CA-C	-5.19	1.46	1.52
1	a	94	ILE	CA-C	-5.18	1.46	1.52
1	b	69	LYS	CA-C	-5.18	1.46	1.52
1	g	87	VAL	N-CA	-5.18	1.39	1.46
3	I	159	LEU	C-O	-5.18	1.19	1.24
1	E	204	LEU	N-CA	5.18	1.51	1.45
2	h	49	ALA	CA-C	-5.18	1.46	1.52
3	H	68	VAL	C-N	5.18	1.41	1.33
3	K	316	GLY	C-N	5.18	1.40	1.33
3	J	275	PHE	N-CA	-5.18	1.40	1.46
1	B	48	LEU	C-O	5.18	1.29	1.24
2	i	56	THR	CA-C	-5.18	1.46	1.52
2	m	163	GLU	C-N	5.18	1.41	1.33
3	I	29	ARG	CD-NE	5.18	1.53	1.46
1	b	44	GLU	CA-C	-5.18	1.45	1.52
2	2	155	PHE	CA-CB	5.17	1.61	1.53
3	K	326	ARG	CA-C	-5.17	1.45	1.52
3	M	228	GLN	CA-C	-5.17	1.46	1.52
1	G	177	LYS	CA-CB	5.17	1.61	1.53
1	G	188	ALA	CA-C	5.17	1.59	1.52
3	K	174	PRO	CA-C	-5.17	1.47	1.52
2	3	171	ALA	CA-C	-5.17	1.46	1.52
3	K	309	VAL	CA-C	-5.17	1.47	1.52
1	A	93	ARG	CZ-NH2	5.17	1.40	1.33
1	g	63	THR	C-N	5.17	1.40	1.33
3	I	306	ILE	N-CA	-5.17	1.40	1.46
1	C	164	ILE	C-O	-5.17	1.18	1.23
1	a	184	SER	CA-CB	5.16	1.60	1.53
1	f	66	LYS	CA-CB	5.16	1.62	1.53
2	2	68	ARG	CD-NE	5.16	1.53	1.46
2	m	88	ARG	CZ-NH2	5.16	1.40	1.33
2	7	202	GLU	CA-C	-5.16	1.46	1.52
2	l	51	ARG	CZ-NH2	5.16	1.40	1.33
1	f	143	GLU	N-CA	-5.16	1.40	1.46
1	g	10	ARG	CD-NE	5.16	1.53	1.46
3	H	24	ARG	CA-CB	5.16	1.61	1.53
2	j	48	ILE	CA-CB	-5.16	1.48	1.54
3	K	349	ALA	CA-C	5.16	1.59	1.52
3	L	176	LYS	CA-C	5.16	1.59	1.52
1	e	101	LEU	C-N	5.16	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	238	GLU	C-O	-5.16	1.18	1.24
1	A	8	TYR	CA-C	-5.16	1.42	1.52
1	f	41	LYS	C-N	5.16	1.40	1.33
2	1	95	SER	CA-C	-5.16	1.46	1.52
2	i	181	ALA	N-CA	-5.16	1.38	1.45
3	K	80	LYS	C-N	5.16	1.40	1.33
1	A	38	ILE	CA-CB	5.15	1.61	1.54
1	d	131	PRO	CA-CB	5.15	1.60	1.53
2	j	49	ALA	N-CA	-5.15	1.40	1.46
1	a	83	ALA	C-N	5.15	1.41	1.33
1	F	103	TYR	C-N	5.15	1.40	1.33
1	a	62	ASP	N-CA	-5.15	1.40	1.46
2	n	12	THR	CA-C	-5.15	1.42	1.52
1	b	96	ALA	C-O	-5.15	1.18	1.24
1	c	50	ALA	C-N	5.15	1.40	1.33
3	M	347	SER	CB-OG	5.15	1.52	1.42
1	E	136	LEU	C-N	5.15	1.41	1.33
3	M	44	TYR	CA-CB	5.15	1.61	1.53
2	3	88	ARG	N-CA	-5.15	1.40	1.46
2	j	24	VAL	CA-C	-5.14	1.46	1.52
3	J	211	PHE	CA-C	-5.14	1.46	1.52
3	J	352	LYS	C-N	5.14	1.41	1.33
1	b	130	ARG	C-N	5.14	1.39	1.33
1	b	211	VAL	N-CA	-5.14	1.40	1.46
1	c	223	GLU	CA-C	5.14	1.58	1.52
1	d	155	ALA	C-O	5.14	1.29	1.23
2	h	112	ILE	N-CA	-5.14	1.40	1.46
2	4	75	ASN	CA-CB	5.14	1.61	1.53
2	k	203	GLU	C-N	5.14	1.40	1.33
2	l	163	GLU	CA-CB	5.14	1.61	1.53
3	L	154	ARG	CZ-NH1	5.14	1.40	1.32
3	L	269	LEU	C-N	5.14	1.40	1.33
3	J	122	SER	CA-C	-5.14	1.45	1.52
3	J	280	ASP	CA-C	5.14	1.58	1.52
1	A	174	PHE	CG-CD1	5.14	1.49	1.38
1	a	114	LYS	C-N	5.14	1.40	1.33
1	c	105	GLU	CA-C	-5.14	1.46	1.52
1	d	157	LEU	CA-C	5.14	1.59	1.52
2	3	20	LYS	N-CA	-5.14	1.39	1.46
1	a	51	ASP	CA-CB	5.14	1.60	1.53
1	D	180	ARG	CZ-NH1	5.14	1.40	1.32
2	j	34	GLY	C-N	5.14	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4	99	ASN	C-N	5.14	1.40	1.33
2	7	71	LYS	CA-C	-5.14	1.46	1.52
1	d	121	GLN	CA-C	-5.13	1.46	1.52
1	g	170	ALA	C-N	5.13	1.40	1.33
2	3	65	PHE	CA-C	-5.13	1.46	1.52
1	A	39	GLY	C-N	5.13	1.39	1.33
1	b	151	ASP	CA-CB	5.13	1.60	1.54
3	H	259	ARG	C-N	5.13	1.40	1.33
3	J	343	THR	CA-C	5.13	1.61	1.52
2	h	173	TYR	C-N	5.13	1.41	1.34
3	K	48	VAL	CA-CB	-5.13	1.48	1.54
3	M	345	GLY	N-CA	-5.13	1.38	1.45
1	e	241	ARG	CD-NE	5.13	1.53	1.46
1	f	58	LEU	CA-C	-5.13	1.46	1.52
2	1	90	ILE	C-N	5.13	1.41	1.33
2	l	150	VAL	CA-C	-5.13	1.46	1.52
2	6	102	ARG	CA-CB	5.13	1.62	1.53
2	m	125	ILE	C-O	-5.13	1.18	1.24
3	I	367	ARG	N-CA	-5.13	1.39	1.46
1	b	224	VAL	N-CA	-5.13	1.40	1.46
1	C	73	HIS	CE1-NE2	-5.13	1.27	1.32
3	M	393	LYS	C-N	5.13	1.40	1.33
2	4	158	GLU	CA-CB	5.13	1.60	1.53
3	L	326	ARG	C-N	5.13	1.40	1.33
1	e	98	ILE	N-CA	-5.12	1.39	1.46
3	J	154	ARG	C-N	5.12	1.40	1.33
1	E	87	VAL	CA-CB	-5.12	1.48	1.54
1	A	54	VAL	N-CA	-5.12	1.40	1.46
1	g	86	ARG	CZ-NH1	5.12	1.40	1.32
2	i	162	ASP	N-CA	-5.12	1.40	1.46
3	I	383	LEU	CA-C	-5.12	1.45	1.52
3	L	123	LYS	CA-CB	5.12	1.61	1.53
3	J	321	PHE	C-N	5.12	1.41	1.34
1	b	225	SER	CA-CB	5.12	1.61	1.53
3	L	168	ALA	N-CA	5.12	1.53	1.46
1	a	28	ARG	CA-CB	5.12	1.61	1.53
1	d	151	ASP	CA-C	5.12	1.57	1.52
1	F	170	ALA	N-CA	-5.12	1.39	1.46
2	i	132	ILE	CA-C	-5.12	1.46	1.52
2	6	104	PHE	C-N	5.12	1.39	1.33
2	n	164	ALA	CA-CB	5.12	1.61	1.53
3	H	306	ILE	CA-C	-5.12	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	154	ARG	NE-CZ	5.12	1.38	1.33
2	i	25	MET	CA-C	-5.12	1.46	1.52
3	M	225	GLU	CA-C	-5.12	1.46	1.52
1	b	35	ALA	C-N	5.12	1.40	1.33
1	d	56	SER	N-CA	-5.12	1.38	1.45
1	E	121	GLN	C-N	5.12	1.40	1.34
1	b	93	ARG	CA-CB	5.11	1.61	1.53
1	C	176	GLU	CA-CB	5.11	1.61	1.53
1	c	241	ARG	CZ-NH1	5.11	1.40	1.32
1	E	232	TYR	N-CA	-5.11	1.40	1.46
2	h	15	VAL	C-O	5.11	1.29	1.24
2	i	154	ARG	CD-NE	5.11	1.53	1.46
2	l	194	ASP	C-N	5.11	1.40	1.33
2	m	204	VAL	CA-C	-5.11	1.46	1.52
1	D	22	PHE	N-CA	-5.11	1.39	1.46
1	E	130	ARG	CD-NE	5.11	1.53	1.46
1	G	86	ARG	CZ-NH1	5.11	1.40	1.32
2	1	74	ALA	CA-C	5.11	1.59	1.52
1	D	126	TYR	N-CA	-5.11	1.39	1.46
1	G	190	VAL	N-CA	-5.11	1.40	1.46
2	i	154	ARG	C-N	5.11	1.40	1.33
2	7	77	TYR	CA-CB	5.11	1.61	1.53
3	I	130	PHE	C-N	5.11	1.40	1.33
3	L	47	GLU	N-CA	-5.11	1.40	1.46
3	L	214	LYS	CA-CB	5.11	1.62	1.53
3	L	366	GLU	N-CA	-5.11	1.39	1.46
3	J	354	ILE	C-O	-5.11	1.18	1.24
1	e	10	ARG	NE-CZ	5.11	1.38	1.33
2	h	201	PRO	C-N	5.11	1.40	1.33
1	a	119	PHE	C-N	5.11	1.40	1.33
1	c	234	GLU	CA-C	-5.11	1.46	1.52
2	l	58	GLY	C-N	5.11	1.41	1.33
2	n	108	VAL	CA-CB	5.11	1.61	1.54
3	L	251	THR	CA-CB	-5.11	1.45	1.53
3	M	361	PHE	C-N	5.11	1.40	1.33
3	J	15	LYS	CA-C	5.11	1.59	1.52
2	5	81	ARG	C-N	5.11	1.41	1.33
2	m	29	LYS	N-CA	5.11	1.52	1.46
2	h	202	GLU	C-N	5.10	1.40	1.33
2	l	22	GLY	C-N	5.10	1.40	1.33
1	C	243	LEU	N-CA	5.10	1.52	1.46
1	g	122	GLN	CA-C	-5.10	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	219	ARG	CA-CB	5.10	1.60	1.53
2	m	102	ARG	CZ-NH2	5.10	1.40	1.33
1	A	143	GLU	C-N	5.10	1.38	1.33
1	E	175	PHE	C-O	-5.10	1.17	1.24
3	M	351	ILE	C-N	5.10	1.40	1.33
1	B	86	ARG	CZ-NH1	5.10	1.39	1.32
1	b	225	SER	N-CA	5.10	1.52	1.45
2	4	102	ARG	CZ-NH1	5.10	1.39	1.32
2	4	212	ARG	CZ-NH2	5.10	1.40	1.33
2	m	133	GLU	C-N	5.10	1.40	1.33
3	M	318	ILE	CA-C	5.10	1.59	1.52
1	d	177	LYS	CA-CB	5.09	1.61	1.53
2	1	53	ALA	N-CA	-5.09	1.39	1.45
2	5	52	MET	CA-C	-5.09	1.46	1.52
2	l	146	THR	C-N	5.09	1.40	1.33
2	6	154	ARG	NE-CZ	5.09	1.38	1.33
3	K	262	GLN	CA-CB	-5.09	1.45	1.53
3	L	386	THR	CA-C	-5.09	1.46	1.52
3	J	297	ILE	C-O	-5.09	1.18	1.24
1	f	28	ARG	CZ-NH2	5.09	1.40	1.33
3	I	259	ARG	CZ-NH2	5.09	1.40	1.33
2	7	30	ARG	CA-C	-5.09	1.45	1.53
3	H	24	ARG	C-N	5.09	1.40	1.33
1	e	184	SER	CA-C	-5.09	1.46	1.53
1	G	13	THR	C-N	5.09	1.40	1.33
2	6	117	SER	CA-CB	5.09	1.61	1.53
3	K	374	ASP	C-N	5.09	1.40	1.33
3	J	273	ASP	N-CA	-5.09	1.40	1.46
2	1	212	ARG	CA-CB	5.09	1.62	1.53
2	l	45	ILE	C-N	5.09	1.41	1.33
1	B	180	ARG	NE-CZ	5.09	1.38	1.33
1	G	197	GLY	CA-C	5.09	1.57	1.51
2	h	132	ILE	CA-C	-5.09	1.47	1.52
3	M	314	PHE	CA-CB	5.09	1.61	1.53
1	G	61	ALA	C-N	5.08	1.40	1.33
1	B	100	ARG	CZ-NH1	5.08	1.39	1.32
1	C	237	ASN	CA-CB	5.08	1.61	1.53
1	F	119	PHE	C-O	-5.08	1.17	1.24
1	D	6	MET	N-CA	5.08	1.52	1.46
2	i	40	LYS	CA-CB	5.08	1.62	1.53
2	3	203	GLU	CA-C	5.08	1.59	1.52
2	5	128	ILE	CA-CB	-5.08	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	n	101	TYR	CA-CB	5.08	1.60	1.53
2	n	109	GLN	CA-CB	5.08	1.62	1.53
3	K	287	THR	C-N	5.08	1.41	1.33
3	M	159	LEU	C-O	-5.08	1.19	1.24
3	J	293	LEU	CA-CB	5.08	1.62	1.53
1	C	91	ARG	N-CA	-5.08	1.40	1.46
1	E	59	LEU	CA-C	5.08	1.59	1.52
1	E	133	GLY	N-CA	5.08	1.52	1.45
1	e	15	PHE	C-N	5.08	1.41	1.33
1	e	44	GLU	CA-CB	5.08	1.61	1.53
1	F	53	ARG	CD-NE	5.08	1.53	1.46
2	1	80	ARG	CA-CB	5.08	1.62	1.53
3	K	209	SER	CA-CB	5.08	1.62	1.53
3	L	200	ARG	NE-CZ	5.08	1.38	1.33
1	B	93	ARG	NE-CZ	5.08	1.38	1.33
1	c	208	ASN	N-CA	-5.08	1.40	1.46
1	g	181	ASP	CA-C	5.08	1.59	1.52
2	2	190	LYS	N-CA	-5.08	1.39	1.45
2	4	161	VAL	N-CA	-5.08	1.39	1.46
3	H	336	PHE	C-O	-5.08	1.18	1.24
3	J	69	SER	C-O	5.08	1.30	1.24
3	J	338	GLU	N-CA	-5.08	1.40	1.46
1	e	79	SER	CA-C	-5.07	1.46	1.52
2	l	174	SER	N-CA	-5.07	1.40	1.46
3	J	223	VAL	CA-CB	5.07	1.60	1.54
1	C	116	ILE	CA-CB	-5.07	1.47	1.54
1	e	165	GLY	C-N	5.07	1.41	1.34
2	6	25	MET	N-CA	-5.07	1.39	1.45
1	d	174	PHE	CA-CB	5.07	1.61	1.53
2	3	178	ARG	CZ-NH1	5.07	1.39	1.32
3	I	137	GLU	CA-CB	5.07	1.63	1.53
3	L	295	PRO	N-CA	5.07	1.53	1.47
1	g	133	GLY	CA-C	-5.07	1.44	1.51
3	J	249	ARG	NE-CZ	5.07	1.38	1.33
2	3	154	ARG	CZ-NH2	5.07	1.40	1.33
2	5	207	ILE	C-N	5.07	1.41	1.33
3	M	61	PRO	CA-C	-5.07	1.47	1.52
1	f	158	GLU	C-N	5.07	1.40	1.33
2	h	111	LEU	CA-C	-5.07	1.46	1.52
2	k	120	LYS	N-CA	-5.07	1.39	1.46
2	6	166	GLU	C-N	5.07	1.40	1.33
3	K	206	VAL	CA-C	-5.07	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	72	LEU	CA-C	-5.07	1.46	1.52
1	C	156	LEU	C-N	5.06	1.40	1.33
1	g	228	GLU	CA-C	-5.06	1.45	1.52
1	A	241	ARG	CZ-NH2	5.06	1.40	1.33
2	3	180	SER	CA-C	5.06	1.59	1.52
2	j	84	LYS	C-N	5.06	1.40	1.33
2	4	61	GLY	C-N	-5.06	1.27	1.33
2	5	37	ILE	C-N	5.06	1.40	1.33
3	M	332	GLU	N-CA	-5.06	1.40	1.46
1	d	13	THR	C-N	5.06	1.42	1.33
2	n	69	ILE	C-N	5.06	1.40	1.33
1	B	47	ILE	C-O	-5.06	1.19	1.24
1	e	216	VAL	CA-C	-5.06	1.46	1.52
2	1	115	ILE	CA-C	-5.06	1.46	1.52
1	C	110	LYS	N-CA	-5.06	1.40	1.46
2	3	65	PHE	CA-CB	5.06	1.61	1.53
3	K	117	ASN	C-N	5.06	1.39	1.33
3	M	22	LYS	CA-C	-5.06	1.46	1.52
2	j	205	GLU	C-N	5.06	1.40	1.33
3	M	353	ALA	N-CA	-5.06	1.40	1.46
1	e	33	ARG	C-N	5.05	1.40	1.33
2	l	178	ARG	NE-CZ	5.05	1.38	1.33
2	n	60	VAL	N-CA	-5.05	1.40	1.46
2	n	108	VAL	N-CA	-5.05	1.40	1.46
3	K	310	PRO	N-CA	-5.05	1.40	1.47
1	b	190	VAL	C-O	-5.05	1.18	1.24
1	f	155	ALA	C-N	5.05	1.40	1.33
1	f	168	ARG	NE-CZ	5.05	1.38	1.33
1	g	216	VAL	N-CA	-5.05	1.40	1.46
2	6	125	ILE	C-O	-5.05	1.18	1.24
3	I	22	LYS	N-CA	-5.05	1.40	1.46
3	M	365	GLU	N-CA	5.05	1.52	1.46
2	5	202	GLU	CA-CB	5.05	1.61	1.53
3	J	57	ARG	NE-CZ	5.05	1.38	1.33
2	1	149	GLY	C-N	5.05	1.40	1.33
1	E	75	CYS	CA-C	-5.05	1.46	1.52
2	3	118	GLU	CA-C	-5.05	1.47	1.53
2	4	173	TYR	C-N	5.05	1.40	1.33
3	M	221	ARG	CZ-NH1	5.05	1.39	1.32
1	C	119	PHE	C-N	5.04	1.41	1.34
1	c	239	ARG	NE-CZ	5.04	1.38	1.33
1	D	219	ARG	CZ-NH1	5.04	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	29	GLU	C-N	5.04	1.40	1.33
1	E	164	ILE	CA-C	-5.04	1.47	1.52
1	G	164	ILE	CA-C	-5.04	1.47	1.52
3	I	326	ARG	CZ-NH1	5.04	1.39	1.32
1	f	33	ARG	C-N	5.04	1.40	1.33
1	g	130	ARG	C-O	-5.04	1.17	1.24
2	4	36	PHE	C-N	5.04	1.39	1.33
2	m	163	GLU	N-CA	5.04	1.52	1.46
3	L	247	ALA	N-CA	-5.04	1.40	1.46
3	M	50	ARG	NE-CZ	5.04	1.38	1.33
3	J	277	PRO	CA-C	-5.04	1.46	1.52
2	m	168	ALA	N-CA	-5.04	1.39	1.46
1	b	73	HIS	CG-ND1	-5.04	1.32	1.38
1	C	161	ALA	CA-C	-5.04	1.46	1.52
1	f	95	GLU	CA-CB	5.04	1.61	1.53
1	E	226	PRO	C-N	5.04	1.40	1.33
1	F	168	ARG	CD-NE	5.04	1.53	1.46
2	3	111	LEU	CA-C	-5.04	1.46	1.52
1	b	138	ILE	C-N	5.04	1.40	1.33
1	e	147	LEU	CB-CG	5.04	1.63	1.53
2	4	122	ILE	C-N	5.04	1.40	1.33
2	4	164	ALA	C-O	-5.04	1.18	1.24
3	H	212	VAL	CA-CB	5.04	1.61	1.54
3	K	57	ARG	CZ-NH1	5.04	1.39	1.32
3	J	200	ARG	CD-NE	5.04	1.53	1.46
1	c	103	TYR	CA-CB	5.03	1.61	1.54
2	m	131	ALA	CA-C	-5.03	1.46	1.52
3	L	52	ARG	C-N	5.03	1.40	1.33
3	M	77	VAL	CA-C	-5.03	1.46	1.52
1	d	141	VAL	CA-C	5.03	1.58	1.52
1	F	33	ARG	CZ-NH2	5.03	1.40	1.33
1	G	182	ASP	C-N	5.03	1.40	1.33
2	h	122	ILE	N-CA	5.03	1.52	1.46
2	j	68	ARG	CD-NE	5.03	1.53	1.46
2	7	86	THR	CA-C	-5.03	1.46	1.53
3	I	195	VAL	N-CA	-5.03	1.40	1.46
3	J	285	GLY	N-CA	-5.03	1.39	1.45
1	a	219	ARG	NE-CZ	5.03	1.38	1.33
1	b	15	PHE	C-N	5.03	1.38	1.33
1	b	100	ARG	CA-CB	5.03	1.61	1.53
2	5	185	GLY	C-N	5.03	1.38	1.33
2	m	68	ARG	CD-NE	5.03	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	n	114	GLY	CA-C	-5.03	1.46	1.52
2	n	156	THR	C-O	-5.03	1.19	1.24
1	a	27	ALA	N-CA	-5.03	1.39	1.46
1	E	50	ALA	CA-C	-5.03	1.46	1.52
2	2	18	VAL	N-CA	-5.03	1.40	1.46
2	6	24	VAL	N-CA	-5.03	1.40	1.46
1	f	54	VAL	C-O	-5.03	1.18	1.24
1	g	183	LEU	CA-C	-5.03	1.46	1.52
2	2	82	GLU	C-N	5.03	1.39	1.33
3	L	260	GLU	CA-CB	5.03	1.61	1.53
1	A	208	ASN	CA-C	-5.02	1.45	1.52
1	C	133	GLY	C-O	5.02	1.27	1.24
3	L	60	SER	CA-CB	5.02	1.61	1.53
1	c	106	PRO	CA-CB	5.02	1.60	1.53
1	D	6	MET	CA-CB	5.02	1.61	1.53
1	E	44	GLU	C-N	5.02	1.38	1.32
2	5	106	TYR	C-O	5.02	1.30	1.24
2	m	187	ASP	CA-C	5.02	1.58	1.52
3	H	260	GLU	CA-CB	5.02	1.62	1.53
1	c	234	GLU	C-N	5.02	1.40	1.33
2	6	119	GLY	CA-C	-5.02	1.44	1.51
2	m	110	LEU	N-CA	-5.02	1.39	1.46
3	K	45	GLU	C-N	5.02	1.40	1.33
1	C	86	ARG	N-CA	-5.02	1.40	1.46
1	G	197	GLY	N-CA	-5.02	1.39	1.45
2	1	90	ILE	N-CA	-5.02	1.39	1.46
1	c	184	SER	CA-CB	5.01	1.60	1.53
1	e	53	ARG	N-CA	-5.01	1.40	1.46
2	1	178	ARG	NE-CZ	5.01	1.38	1.33
2	5	124	SER	CA-C	-5.01	1.46	1.52
1	c	49	ILE	C-O	-5.01	1.19	1.24
2	2	208	LEU	CA-C	5.01	1.59	1.52
2	j	19	CYS	C-N	5.01	1.41	1.33
2	k	195	GLU	CA-C	-5.01	1.46	1.52
2	5	170	ARG	NE-CZ	5.01	1.38	1.33
3	K	236	SER	CA-C	5.01	1.58	1.52
3	J	328	MET	C-N	5.01	1.40	1.33
1	b	107	ILE	CA-C	-5.01	1.47	1.52
2	3	52	MET	SD-CE	5.01	1.92	1.79
3	J	40	GLU	CA-C	-5.01	1.45	1.52
2	1	146	THR	C-N	5.01	1.40	1.33
2	n	33	MET	CA-C	-5.01	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	n	72	ILE	CA-CB	-5.01	1.48	1.54
2	n	49	ALA	C-N	5.01	1.40	1.33
3	H	254	ASP	C-N	5.01	1.40	1.33
1	g	25	GLU	CA-CB	5.00	1.61	1.53
2	j	207	ILE	C-N	5.00	1.41	1.33
3	H	203	PHE	CA-C	-5.00	1.46	1.52
1	a	80	GLY	N-CA	-5.00	1.39	1.45
1	G	137	LEU	CA-C	-5.00	1.46	1.52
2	k	50	ASP	CA-CB	5.00	1.61	1.53
2	7	138	VAL	N-CA	-5.00	1.40	1.46
2	7	170	ARG	CZ-NH1	5.00	1.39	1.32
3	J	225	GLU	CA-C	-5.00	1.46	1.52
1	B	52	LYS	CA-C	-5.00	1.46	1.52
1	C	157	LEU	N-CA	-5.00	1.39	1.46
1	g	135	SER	N-CA	-5.00	1.39	1.45
2	2	49	ALA	C-O	-5.00	1.18	1.24
3	M	221	ARG	NE-CZ	5.00	1.38	1.33

All (4636) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5	170	ARG	NE-CZ-NH2	-22.60	98.86	119.20
2	l	170	ARG	NE-CZ-NH2	-21.87	99.51	119.20
3	K	61	PRO	N-CA-C	13.15	126.74	110.70
3	I	211	PHE	CA-CB-CG	-12.66	101.14	113.80
3	I	182	GLY	CA-C-N	11.50	127.94	119.66
3	I	182	GLY	C-N-CA	11.50	127.94	119.66
3	M	182	GLY	CA-C-N	11.49	132.22	120.38
3	M	182	GLY	C-N-CA	11.49	132.22	120.38
1	A	105	GLU	CA-C-N	11.30	133.97	119.84
1	A	105	GLU	C-N-CA	11.30	133.97	119.84
1	g	225	SER	CA-C-O	-11.20	109.10	120.63
3	I	16	LEU	CA-C-N	11.15	134.94	120.44
3	I	16	LEU	C-N-CA	11.15	134.94	120.44
1	E	84	ASP	N-CA-C	11.14	123.43	111.28
2	n	159	ILE	CA-C-N	10.89	132.84	120.53
2	n	159	ILE	C-N-CA	10.89	132.84	120.53
3	M	12	LYS	CA-C-O	-10.89	109.39	120.82
1	E	235	ARG	CA-C-N	10.87	135.72	120.29
1	E	235	ARG	C-N-CA	10.87	135.72	120.29
3	K	29	ARG	N-CA-C	10.82	123.07	111.28
2	7	211	PHE	N-CA-C	-10.66	98.19	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	208	ASN	CA-CB-CG	10.61	123.21	112.60
1	D	151	ASP	CA-CB-CG	-10.58	102.02	112.60
1	C	218	ASP	CA-CB-CG	-10.57	102.03	112.60
1	c	142	ASP	N-CA-C	-10.55	101.16	114.56
2	3	48	ILE	N-CA-C	-10.51	102.53	111.56
3	M	236	SER	CA-C-N	10.49	140.59	121.70
3	M	236	SER	C-N-CA	10.49	140.59	121.70
3	I	259	ARG	CA-C-N	10.48	134.32	120.28
3	I	259	ARG	C-N-CA	10.48	134.32	120.28
2	k	139	ALA	CA-C-N	10.47	140.54	121.70
2	k	139	ALA	C-N-CA	10.47	140.54	121.70
1	G	8	TYR	N-CA-C	-10.43	99.87	112.59
1	B	70	ILE	N-CA-C	-10.40	103.38	112.12
1	d	16	SER	N-CA-CB	10.39	122.60	110.03
3	K	281	VAL	CA-C-N	10.27	140.18	121.70
3	K	281	VAL	C-N-CA	10.27	140.18	121.70
1	e	84	ASP	CA-CB-CG	-10.19	102.41	112.60
3	H	214	LYS	N-CA-C	10.19	122.39	111.28
1	C	132	PHE	CA-CB-CG	-10.18	103.62	113.80
3	J	157	VAL	N-CA-C	-10.16	104.06	113.71
2	i	59	SER	CA-C-N	10.15	133.11	120.72
2	i	59	SER	C-N-CA	10.15	133.11	120.72
3	L	174	PRO	N-CA-C	10.15	123.08	110.70
1	d	151	ASP	CA-CB-CG	-10.11	102.49	112.60
1	D	16	SER	CA-C-O	-10.11	110.25	120.66
2	7	182	SER	CA-C-N	10.08	131.40	122.43
2	7	182	SER	C-N-CA	10.08	131.40	122.43
2	m	44	LYS	N-CA-C	-10.07	98.49	114.09
1	D	241	ARG	CA-C-O	-10.04	109.91	120.55
1	g	181	ASP	CA-CB-CG	-10.02	102.58	112.60
3	M	131	GLU	CA-C-N	10.01	139.73	121.70
3	M	131	GLU	C-N-CA	10.01	139.73	121.70
1	e	96	ALA	CA-C-N	9.99	133.67	120.28
1	e	96	ALA	C-N-CA	9.99	133.67	120.28
3	M	317	ARG	CA-C-N	9.99	134.14	120.46
3	M	317	ARG	C-N-CA	9.99	134.14	120.46
1	g	121	GLN	OE1-CD-NE2	9.98	132.59	122.60
3	L	324	HIS	CA-CB-CG	-9.97	103.83	113.80
1	G	82	VAL	N-CA-C	-9.96	102.93	112.29
2	l	141	GLY	N-CA-C	-9.85	97.78	110.38
3	L	156	ALA	N-CA-C	9.85	121.60	111.07
1	g	143	GLU	N-CA-C	-9.84	102.35	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	83	ALA	O-C-N	-9.78	111.86	122.03
2	l	87	VAL	CA-C-N	9.68	133.25	120.28
2	l	87	VAL	C-N-CA	9.68	133.25	120.28
1	E	70	ILE	N-CA-C	-9.67	102.39	111.48
1	A	136	LEU	N-CA-C	-9.64	94.61	109.95
2	l	198	GLN	CA-C-N	9.60	134.10	120.28
2	l	198	GLN	C-N-CA	9.60	134.10	120.28
2	6	60	VAL	CA-C-N	9.59	130.59	119.94
2	6	60	VAL	C-N-CA	9.59	130.59	119.94
1	c	169	ASN	CA-C-N	9.59	133.90	120.29
1	c	169	ASN	C-N-CA	9.59	133.90	120.29
2	2	65	PHE	CA-CB-CG	-9.58	104.22	113.80
1	D	65	GLU	N-CA-CB	9.57	126.77	110.50
1	d	84	ASP	CA-CB-CG	-9.53	103.07	112.60
1	f	232	TYR	CA-C-O	-9.52	110.33	120.42
2	1	104	PHE	CB-CA-C	-9.51	99.35	111.15
2	4	136	ASP	CA-CB-CG	9.50	122.10	112.60
2	4	103	TYR	N-CA-CB	9.49	124.21	110.16
2	j	114	GLY	N-CA-C	-9.46	98.27	110.38
1	a	29	GLU	CA-C-N	9.44	132.93	120.28
1	a	29	GLU	C-N-CA	9.44	132.93	120.28
1	b	196	MET	CA-C-N	9.43	130.65	119.99
1	b	196	MET	C-N-CA	9.43	130.65	119.99
1	E	80	GLY	N-CA-C	-9.41	99.63	112.52
2	m	49	ALA	N-CA-C	-9.40	96.60	108.45
3	M	91	THR	CA-C-O	9.40	125.29	119.55
1	A	105	GLU	O-C-N	-9.40	115.27	121.85
2	7	33	MET	N-CA-C	-9.40	98.50	112.04
1	A	197	GLY	CA-C-N	9.37	132.83	120.28
1	A	197	GLY	C-N-CA	9.37	132.83	120.28
3	J	219	GLY	CA-C-N	9.33	133.13	120.44
3	J	219	GLY	C-N-CA	9.33	133.13	120.44
2	4	116	ASP	CA-CB-CG	9.32	121.92	112.60
2	5	170	ARG	NH1-CZ-NH2	9.30	131.39	119.30
3	H	46	ARG	NE-CZ-NH2	9.27	127.55	119.20
1	b	83	ALA	CA-C-O	9.27	130.38	120.55
2	1	203	GLU	CA-C-N	9.25	133.13	120.46
2	1	203	GLU	C-N-CA	9.25	133.13	120.46
3	M	36	PHE	CA-CB-CG	-9.25	104.55	113.80
1	C	225	SER	CA-C-N	9.24	131.39	119.84
1	C	225	SER	C-N-CA	9.24	131.39	119.84
2	l	103	TYR	CA-C-N	9.22	130.40	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	103	TYR	C-N-CA	9.22	130.40	122.28
1	f	143	GLU	N-CA-C	-9.20	104.13	114.62
3	L	159	LEU	CA-C-N	9.20	128.80	119.24
3	L	159	LEU	C-N-CA	9.20	128.80	119.24
1	e	144	VAL	N-CA-C	-9.19	97.64	107.84
2	m	66	LEU	CA-C-N	9.18	132.59	120.28
2	m	66	LEU	C-N-CA	9.18	132.59	120.28
3	K	249	ARG	N-CA-C	-9.18	94.25	108.76
1	D	64	ILE	CA-C-N	9.18	138.22	121.70
1	D	64	ILE	C-N-CA	9.18	138.22	121.70
2	1	182	SER	CA-C-N	9.16	134.02	121.01
2	1	182	SER	C-N-CA	9.16	134.02	121.01
2	1	109	GLN	OE1-CD-NE2	9.15	131.75	122.60
1	c	205	VAL	CA-C-N	9.14	128.88	119.19
1	c	205	VAL	C-N-CA	9.14	128.88	119.19
3	K	397	PHE	CA-CB-CG	-9.14	104.66	113.80
3	J	94	TYR	N-CA-C	-9.11	101.09	113.30
1	G	232	TYR	CA-C-N	9.10	133.34	120.42
1	G	232	TYR	C-N-CA	9.10	133.34	120.42
3	M	119	LEU	O-C-N	-9.10	110.86	121.32
2	i	201	PRO	CA-C-N	9.08	132.80	120.54
2	i	201	PRO	C-N-CA	9.08	132.80	120.54
2	l	80	ARG	NE-CZ-NH2	9.08	127.37	119.20
1	f	70	ILE	N-CA-C	-9.05	104.03	111.81
3	H	230	ALA	CA-C-N	9.04	133.13	120.29
3	H	230	ALA	C-N-CA	9.04	133.13	120.29
1	A	242	GLU	CA-C-N	9.03	132.39	120.28
1	A	242	GLU	C-N-CA	9.03	132.39	120.28
3	M	194	ALA	CA-C-N	9.03	132.83	120.46
3	M	194	ALA	C-N-CA	9.03	132.83	120.46
1	F	121	GLN	OE1-CD-NE2	-9.02	113.58	122.60
1	f	240	ILE	O-C-N	9.02	130.75	121.91
1	f	113	ALA	CA-C-N	9.01	132.35	120.28
1	f	113	ALA	C-N-CA	9.01	132.35	120.28
1	D	72	GLU	N-CA-C	-9.01	102.39	112.57
1	C	64	ILE	N-CA-C	-8.97	95.26	108.54
2	n	60	VAL	N-CA-C	8.97	119.78	110.72
3	I	315	GLU	CA-C-N	8.97	129.94	119.98
3	I	315	GLU	C-N-CA	8.97	129.94	119.98
1	f	144	VAL	CA-C-N	8.95	131.03	119.84
1	f	144	VAL	C-N-CA	8.95	131.03	119.84
2	7	175	ALA	N-CA-CB	8.95	123.27	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	57	ARG	NE-CZ-NH2	8.95	127.25	119.20
2	4	75	ASN	N-CA-C	-8.94	101.61	111.36
3	J	101	LYS	N-CA-C	-8.91	100.20	108.22
1	C	191	LEU	CA-C-N	8.91	129.87	119.98
1	C	191	LEU	C-N-CA	8.91	129.87	119.98
1	B	172	THR	CA-C-N	8.91	132.22	120.28
1	B	172	THR	C-N-CA	8.91	132.22	120.28
1	D	16	SER	CA-C-N	8.91	129.80	119.47
1	D	16	SER	C-N-CA	8.91	129.80	119.47
1	C	237	ASN	CA-CB-CG	8.90	121.50	112.60
3	I	292	ILE	N-CA-C	-8.89	103.74	113.43
2	l	170	ARG	NH1-CZ-NH2	8.88	130.85	119.30
2	3	133	GLU	CA-C-N	8.88	134.23	122.42
2	3	133	GLU	C-N-CA	8.88	134.23	122.42
3	L	140	TYR	N-CA-C	-8.88	101.98	113.17
3	L	311	LEU	CA-C-O	-8.88	111.28	120.96
3	L	341	ARG	CA-C-N	8.87	132.61	120.46
3	L	341	ARG	C-N-CA	8.87	132.61	120.46
3	M	77	VAL	N-CA-C	-8.86	95.26	108.46
1	D	188	ALA	CA-C-O	8.84	129.79	120.42
3	K	270	ALA	N-CA-CB	8.82	123.08	110.12
1	C	85	ALA	CA-C-N	8.81	131.90	120.44
1	C	85	ALA	C-N-CA	8.81	131.90	120.44
1	F	54	VAL	O-C-N	-8.79	114.17	123.14
1	F	28	ARG	NE-CZ-NH2	-8.78	111.29	119.20
1	b	53	ARG	NE-CZ-NH2	8.78	127.10	119.20
1	d	44	GLU	N-CA-C	-8.77	103.43	114.56
1	g	212	GLY	O-C-N	-8.75	115.58	123.36
3	M	139	SER	CA-C-O	-8.74	111.70	121.40
3	M	116	VAL	N-CA-C	-8.73	104.51	112.90
2	7	176	MET	CB-CA-C	-8.72	96.02	110.85
3	M	326	ARG	CA-C-N	8.71	132.66	120.29
3	M	326	ARG	C-N-CA	8.71	132.66	120.29
2	4	104	PHE	CA-CB-CG	-8.71	105.09	113.80
1	E	86	ARG	CA-C-N	8.71	131.70	120.56
1	E	86	ARG	C-N-CA	8.71	131.70	120.56
1	A	216	VAL	N-CA-C	-8.69	103.25	113.42
3	L	164	PRO	CB-CA-C	-8.69	100.36	109.92
2	k	166	GLU	CA-C-N	8.69	131.73	120.44
2	k	166	GLU	C-N-CA	8.69	131.73	120.44
1	c	208	ASN	CA-CB-CG	8.68	121.28	112.60
1	A	42	CYS	N-CA-C	-8.68	96.97	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	102	ARG	CA-C-N	8.68	132.26	120.54
2	l	102	ARG	C-N-CA	8.68	132.26	120.54
2	7	156	THR	N-CA-C	-8.68	96.83	110.10
3	K	292	ILE	N-CA-C	-8.67	103.93	112.17
1	g	185	PHE	CA-C-N	8.67	131.90	120.28
1	g	185	PHE	C-N-CA	8.67	131.90	120.28
1	B	225	SER	CA-C-O	-8.66	112.81	120.60
3	M	37	ILE	CA-C-O	-8.64	111.69	120.85
3	J	243	LEU	N-CA-C	-8.64	102.29	113.17
3	M	391	ASP	CA-CB-CG	-8.64	103.96	112.60
3	J	290	ILE	N-CA-C	-8.63	104.49	112.43
3	L	234	ALA	CA-C-O	-8.63	111.75	120.64
1	d	73	HIS	CA-CB-CG	8.63	122.43	113.80
2	k	41	ALA	N-CA-C	-8.62	101.20	112.41
3	K	268	LEU	CA-C-N	8.62	131.83	120.28
3	K	268	LEU	C-N-CA	8.62	131.83	120.28
3	L	54	GLU	CA-C-N	8.62	132.27	120.46
3	L	54	GLU	C-N-CA	8.62	132.27	120.46
2	6	99	ASN	CA-CB-CG	-8.61	103.99	112.60
2	i	21	ASP	CA-CB-CG	-8.61	103.99	112.60
2	h	88	ARG	NE-CZ-NH2	8.60	126.94	119.20
3	H	261	VAL	N-CA-C	-8.59	103.46	111.45
2	l	37	ILE	N-CA-C	-8.59	98.50	109.58
1	c	90	ASP	N-CA-C	-8.56	102.03	111.36
2	7	168	ALA	CA-C-N	8.56	131.35	120.56
2	7	168	ALA	C-N-CA	8.56	131.35	120.56
2	m	103	TYR	N-CA-C	-8.56	103.34	112.93
1	b	40	ILE	N-CA-C	-8.56	95.80	108.12
1	G	108	THR	N-CA-C	-8.55	97.86	110.52
1	A	142	ASP	CA-CB-CG	8.54	121.14	112.60
2	1	31	ALA	CA-C-O	8.53	129.79	120.32
2	5	148	TYR	CA-C-N	8.53	129.63	119.99
2	5	148	TYR	C-N-CA	8.53	129.63	119.99
1	e	205	VAL	N-CA-C	-8.53	97.46	107.61
2	6	180	SER	N-CA-C	-8.52	104.01	114.75
1	g	105	GLU	CA-C-O	-8.51	111.38	119.55
1	F	73	HIS	CA-CB-CG	8.51	122.31	113.80
1	g	141	VAL	N-CA-C	-8.51	95.18	107.77
1	F	141	VAL	N-CA-C	-8.50	95.76	108.17
2	7	187	ASP	CA-CB-CG	8.49	121.09	112.60
2	k	104	PHE	N-CA-C	-8.49	96.53	108.76
2	4	67	ALA	N-CA-CB	8.49	122.59	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6	65	PHE	CA-C-N	8.48	132.33	120.29
2	6	65	PHE	C-N-CA	8.48	132.33	120.29
2	j	165	VAL	N-CA-CB	8.47	122.06	110.54
3	L	270	ALA	N-CA-C	8.47	120.20	110.97
3	H	281	VAL	CA-C-N	8.46	136.94	121.70
3	H	281	VAL	C-N-CA	8.46	136.94	121.70
1	c	113	ALA	N-CA-C	8.45	120.11	111.07
3	K	311	LEU	CA-C-N	8.45	130.40	119.84
3	K	311	LEU	C-N-CA	8.45	130.40	119.84
2	6	181	ALA	CA-C-N	8.44	132.76	120.95
2	6	181	ALA	C-N-CA	8.44	132.76	120.95
3	H	234	ALA	CA-C-O	-8.44	111.14	120.25
1	C	203	GLU	CA-C-N	8.43	135.39	121.39
1	C	203	GLU	C-N-CA	8.43	135.39	121.39
1	A	141	VAL	CB-CA-C	-8.43	100.70	110.73
1	D	196	MET	CA-C-N	8.43	129.30	119.94
1	D	196	MET	C-N-CA	8.43	129.30	119.94
3	L	259	ARG	O-C-N	8.43	131.05	122.12
1	b	65	GLU	CB-CG-CD	-8.43	98.28	112.60
2	1	158	GLU	N-CA-CB	8.42	124.39	110.92
2	j	29	LYS	N-CA-C	-8.42	103.12	112.72
2	k	69	ILE	N-CA-C	-8.41	102.62	110.53
2	j	30	ARG	NE-CZ-NH2	8.41	126.77	119.20
1	f	35	ALA	CA-C-N	8.40	132.64	120.71
1	f	35	ALA	C-N-CA	8.40	132.64	120.71
3	L	276	ASP	N-CA-C	-8.39	100.24	110.31
1	D	144	VAL	CA-C-N	8.39	128.91	119.93
1	D	144	VAL	C-N-CA	8.39	128.91	119.93
2	l	75	ASN	CA-CB-CG	-8.39	104.21	112.60
1	d	33	ARG	NE-CZ-NH2	8.37	126.74	119.20
1	a	36	THR	CA-C-O	8.37	129.50	120.38
2	n	67	ALA	N-CA-C	8.37	121.34	111.71
1	d	193	LEU	N-CA-C	-8.36	102.25	111.36
2	5	78	GLU	CA-C-O	-8.34	111.58	120.42
2	h	65	PHE	CA-C-N	8.34	131.45	120.28
2	h	65	PHE	C-N-CA	8.34	131.45	120.28
1	f	225	SER	CA-C-N	8.33	128.06	119.56
1	f	225	SER	C-N-CA	8.33	128.06	119.56
3	I	19	ASP	CA-CB-CG	-8.32	104.28	112.60
3	H	116	VAL	N-CA-C	-8.32	105.07	113.47
3	L	33	GLU	CA-C-N	8.32	132.10	120.29
3	L	33	GLU	C-N-CA	8.32	132.10	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	67	ILE	N-CA-C	-8.32	96.47	108.11
2	k	189	VAL	O-C-N	-8.32	114.45	123.18
3	I	266	MET	CA-C-N	8.32	131.43	120.28
3	I	266	MET	C-N-CA	8.32	131.43	120.28
3	J	120	PRO	N-CA-CB	8.32	110.26	103.36
3	H	12	LYS	N-CA-C	8.31	121.09	111.11
1	f	17	PRO	CA-C-N	8.31	131.41	120.28
1	f	17	PRO	C-N-CA	8.31	131.41	120.28
1	g	70	ILE	N-CA-C	-8.31	104.65	112.96
3	I	281	VAL	CA-C-N	8.30	136.65	121.70
3	I	281	VAL	C-N-CA	8.30	136.65	121.70
2	m	158	GLU	N-CA-C	-8.29	102.47	112.59
3	M	24	ARG	CD-NE-CZ	8.29	136.01	124.40
2	4	108	VAL	N-CA-C	-8.29	97.45	108.06
2	2	139	ALA	N-CA-C	-8.29	93.15	110.80
2	i	108	VAL	CA-C-N	8.28	133.78	122.77
2	i	108	VAL	C-N-CA	8.28	133.78	122.77
2	2	83	ARG	NE-CZ-NH1	-8.27	113.23	121.50
2	4	180	SER	N-CA-C	-8.27	103.30	112.72
1	a	145	PRO	CA-C-O	-8.25	112.40	121.23
3	I	18	GLU	CA-C-N	8.25	131.17	120.44
3	I	18	GLU	C-N-CA	8.25	131.17	120.44
3	M	17	GLU	CA-C-N	8.25	131.34	120.28
3	M	17	GLU	C-N-CA	8.25	131.34	120.28
2	5	170	ARG	NE-CZ-NH1	8.24	129.74	121.50
3	M	15	LYS	CA-C-N	8.22	131.62	120.44
3	M	15	LYS	C-N-CA	8.22	131.62	120.44
2	3	70	ILE	CA-C-N	8.22	131.64	120.54
2	3	70	ILE	C-N-CA	8.22	131.64	120.54
3	H	209	SER	N-CA-C	-8.20	103.41	113.50
1	f	188	ALA	N-CA-C	8.20	120.22	111.28
2	n	139	ALA	CA-C-N	8.20	137.20	121.54
2	n	139	ALA	C-N-CA	8.20	137.20	121.54
1	a	22	PHE	CA-C-N	8.20	131.26	120.28
1	a	22	PHE	C-N-CA	8.20	131.26	120.28
1	g	93	ARG	N-CA-C	-8.19	102.43	111.36
1	a	97	GLN	N-CA-C	-8.19	102.74	112.89
1	d	38	ILE	CA-C-N	8.18	127.21	121.65
1	d	38	ILE	C-N-CA	8.18	127.21	121.65
1	A	174	PHE	CA-C-O	8.16	129.32	120.10
2	j	175	ALA	CA-C-N	8.16	131.21	120.28
2	j	175	ALA	C-N-CA	8.16	131.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	196	MET	CA-C-N	8.15	129.03	119.98
1	F	196	MET	C-N-CA	8.15	129.03	119.98
2	2	55	THR	N-CA-C	-8.14	96.69	109.72
1	c	66	LYS	CA-C-O	8.13	127.74	118.47
1	D	86	ARG	N-CA-C	8.14	120.15	111.28
3	K	35	LYS	N-CA-CB	8.13	122.07	110.12
1	b	212	GLY	N-CA-C	-8.13	98.57	112.06
2	2	191	ILE	N-CA-C	-8.13	92.44	109.34
3	I	42	ILE	CA-C-N	8.12	130.99	120.44
3	I	42	ILE	C-N-CA	8.12	130.99	120.44
3	J	208	GLY	N-CA-C	-8.12	104.69	115.32
2	1	50	ASP	N-CA-C	8.11	120.84	111.11
2	3	87	VAL	N-CA-C	-8.11	102.53	110.72
3	I	227	PHE	CA-CB-CG	-8.11	105.69	113.80
1	e	74	ILE	N-CA-C	-8.09	96.40	108.46
2	4	23	VAL	N-CA-C	-8.09	96.48	108.45
3	J	18	GLU	O-C-N	-8.09	112.93	122.15
3	L	127	VAL	N-CA-CB	8.09	122.25	111.25
3	L	204	ILE	N-CA-C	-8.08	96.37	108.17
1	a	239	ARG	NE-CZ-NH2	8.08	126.47	119.20
2	5	128	ILE	N-CA-C	-8.08	103.37	111.77
1	D	10	ARG	N-CA-C	-8.07	102.74	112.59
3	H	254	ASP	CA-CB-CG	-8.07	104.53	112.60
3	K	159	LEU	CA-C-N	8.06	128.51	119.32
3	K	159	LEU	C-N-CA	8.06	128.51	119.32
2	n	76	LEU	CA-C-N	8.06	131.08	120.28
2	n	76	LEU	C-N-CA	8.06	131.08	120.28
1	E	166	MET	N-CA-CB	8.04	123.51	110.40
1	e	109	VAL	CA-C-N	8.04	131.06	120.28
1	e	109	VAL	C-N-CA	8.04	131.06	120.28
3	J	222	LEU	N-CA-C	8.04	120.05	111.28
2	6	143	GLY	CA-C-N	8.04	131.39	120.38
2	6	143	GLY	C-N-CA	8.04	131.39	120.38
1	A	208	ASN	N-CA-C	-8.03	100.95	111.71
1	g	212	GLY	N-CA-C	-8.03	98.61	110.90
2	4	64	GLN	O-C-N	8.03	131.31	122.15
1	f	84	ASP	CA-CB-CG	-8.03	104.57	112.60
3	K	259	ARG	NE-CZ-NH2	-8.03	111.97	119.20
3	M	49	ARG	NE-CZ-NH2	8.03	126.42	119.20
3	J	118	VAL	N-CA-C	-8.03	96.87	108.11
2	m	211	PHE	N-CA-C	-8.02	103.32	113.43
1	e	221	PHE	CA-C-O	8.02	128.94	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	37	ILE	N-CA-C	8.02	118.80	110.62
1	G	26	TYR	N-CA-C	-8.01	103.63	113.41
1	g	97	GLN	OE1-CD-NE2	8.01	130.61	122.60
2	6	139	ALA	CA-C-N	8.01	136.11	121.70
2	6	139	ALA	C-N-CA	8.01	136.11	121.70
3	I	273	ASP	CA-CB-CG	8.01	120.61	112.60
3	K	51	LEU	CA-C-N	8.01	131.01	120.28
3	K	51	LEU	C-N-CA	8.01	131.01	120.28
1	a	90	ASP	N-CA-C	-8.00	102.64	111.36
1	F	75	CYS	N-CA-C	-7.99	98.18	109.69
2	h	192	THR	N-CA-C	-7.99	102.59	113.30
2	l	170	ARG	NE-CZ-NH1	7.99	129.49	121.50
3	I	385	LYS	N-CA-C	7.99	122.66	113.15
3	I	276	ASP	CA-C-N	7.98	127.93	120.03
3	I	276	ASP	C-N-CA	7.98	127.93	120.03
1	c	223	GLU	CA-C-O	7.98	129.08	120.38
1	D	245	LYS	N-CA-C	-7.97	103.58	113.38
2	2	135	LYS	N-CA-C	-7.97	101.66	113.61
1	B	16	SER	CA-C-N	7.96	127.68	119.56
1	B	16	SER	C-N-CA	7.96	127.68	119.56
3	M	294	ASP	O-C-N	-7.96	112.78	121.53
3	M	229	LEU	N-CA-CB	7.96	121.81	110.12
1	G	218	ASP	CA-CB-CG	-7.95	104.65	112.60
2	2	87	VAL	CA-C-N	7.95	130.94	120.28
2	2	87	VAL	C-N-CA	7.95	130.94	120.28
1	g	34	GLY	CA-C-N	7.95	132.69	121.24
1	g	34	GLY	C-N-CA	7.95	132.69	121.24
3	J	199	THR	CA-C-N	7.94	133.65	122.46
3	J	199	THR	C-N-CA	7.94	133.65	122.46
3	L	150	ILE	O-C-N	-7.94	114.13	121.91
3	K	173	GLU	CA-C-N	7.93	128.55	120.38
3	K	173	GLU	C-N-CA	7.93	128.55	120.38
1	C	73	HIS	ND1-CE1-NE2	7.92	116.32	108.40
3	L	224	ARG	NE-CZ-NH2	7.92	126.33	119.20
1	f	212	GLY	N-CA-C	-7.91	99.55	111.10
3	L	117	ASN	OD1-CG-ND2	-7.91	114.69	122.60
1	c	145	PRO	CB-CA-C	7.91	121.60	111.56
3	J	230	ALA	CA-C-N	7.90	131.19	120.44
3	J	230	ALA	C-N-CA	7.90	131.19	120.44
2	5	183	GLY	N-CA-C	-7.90	104.61	114.16
2	4	62	ASP	O-C-N	7.89	130.19	122.07
1	f	91	ARG	CD-NE-CZ	-7.88	113.36	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	h	108	VAL	N-CA-C	-7.88	97.95	108.35
1	C	160	LYS	N-CA-C	-7.88	104.83	114.75
2	1	54	MET	CA-C-N	7.88	133.88	122.77
2	1	54	MET	C-N-CA	7.88	133.88	122.77
3	I	144	GLY	O-C-N	7.87	129.76	122.99
2	l	153	ASP	N-CA-CB	7.87	121.42	110.01
1	D	94	ILE	O-C-N	-7.86	114.21	121.91
2	7	104	PHE	CA-CB-CG	-7.85	105.95	113.80
1	d	130	ARG	CA-C-N	7.85	127.80	120.03
1	d	130	ARG	C-N-CA	7.85	127.80	120.03
2	i	212	ARG	N-CA-C	-7.85	102.74	113.18
1	a	98	ILE	CA-C-N	7.85	131.43	120.29
1	a	98	ILE	C-N-CA	7.85	131.43	120.29
1	f	239	ARG	NE-CZ-NH2	7.85	126.26	119.20
2	l	180	SER	N-CA-C	-7.84	105.69	114.62
1	f	91	ARG	N-CA-C	7.83	119.82	111.28
2	k	59	SER	CA-C-N	7.83	130.42	120.56
2	k	59	SER	C-N-CA	7.83	130.42	120.56
1	f	227	GLU	N-CA-C	-7.82	103.53	113.23
2	1	156	THR	CA-C-O	-7.82	110.77	120.23
2	k	68	ARG	NE-CZ-NH2	-7.82	112.16	119.20
1	b	141	VAL	N-CA-C	-7.81	96.34	107.75
2	k	191	ILE	N-CA-CB	7.81	122.44	111.82
3	I	72	LEU	N-CA-C	-7.80	98.33	110.42
1	B	151	ASP	O-C-N	7.80	128.40	120.99
1	e	68	TYR	CA-C-N	7.80	132.83	122.30
1	e	68	TYR	C-N-CA	7.80	132.83	122.30
1	F	241	ARG	NE-CZ-NH1	-7.79	113.70	121.50
2	k	79	ILE	CA-C-N	7.79	130.72	120.28
2	k	79	ILE	C-N-CA	7.79	130.72	120.28
1	C	114	LYS	N-CA-C	7.79	119.77	111.28
1	D	165	GLY	CA-C-N	7.79	130.71	120.28
1	D	165	GLY	C-N-CA	7.79	130.71	120.28
2	k	198	GLN	CA-C-N	7.79	131.34	120.29
2	k	198	GLN	C-N-CA	7.79	131.34	120.29
2	7	75	ASN	CA-CB-CG	-7.78	104.82	112.60
3	J	280	ASP	N-CA-C	-7.78	100.66	113.50
1	f	122	GLN	N-CA-CB	7.78	121.55	110.12
1	c	118	ASP	CB-CA-C	-7.77	97.89	110.79
2	n	186	ILE	N-CA-C	-7.77	96.88	108.46
1	f	200	ILE	N-CA-C	-7.77	103.66	113.22
2	1	121	SER	N-CA-CB	7.77	123.37	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	299	ARG	N-CA-CB	7.77	122.30	110.02
2	m	86	THR	N-CA-C	-7.76	99.03	110.52
1	E	148	TYR	O-C-N	7.76	132.27	123.27
2	m	168	ALA	CA-C-N	7.75	131.42	120.42
2	m	168	ALA	C-N-CA	7.75	131.42	120.42
1	E	205	VAL	N-CA-C	-7.74	99.16	108.45
1	A	58	LEU	N-CA-C	-7.74	102.78	111.14
2	1	165	VAL	CA-C-N	7.74	130.65	120.28
2	1	165	VAL	C-N-CA	7.74	130.65	120.28
2	6	58	GLY	CA-C-N	7.74	131.70	120.71
2	6	58	GLY	C-N-CA	7.74	131.70	120.71
2	m	36	PHE	N-CA-C	-7.74	96.62	109.24
2	j	154	ARG	N-CA-C	-7.74	103.15	112.59
2	5	174	SER	CA-C-N	7.74	131.27	120.29
2	5	174	SER	C-N-CA	7.74	131.27	120.29
1	G	212	GLY	N-CA-C	-7.73	99.85	111.14
3	H	227	PHE	CA-CB-CG	-7.73	106.07	113.80
3	H	379	ILE	CA-C-O	-7.73	112.98	121.17
2	4	48	ILE	N-CA-C	7.72	118.52	110.72
1	e	53	ARG	NE-CZ-NH2	7.72	126.15	119.20
2	n	126	ASP	CA-CB-CG	-7.71	104.89	112.60
1	e	64	ILE	N-CA-C	-7.70	97.05	108.45
1	f	151	ASP	CA-CB-CG	-7.70	104.90	112.60
2	l	165	VAL	N-CA-CB	7.69	119.55	110.55
1	B	229	LEU	CA-C-N	7.69	132.35	120.97
1	B	229	LEU	C-N-CA	7.69	132.35	120.97
1	E	145	PRO	CA-C-O	-7.69	112.67	121.36
1	e	31	VAL	CA-C-N	7.69	131.21	120.29
1	e	31	VAL	C-N-CA	7.69	131.21	120.29
2	i	150	VAL	CA-C-N	7.68	130.43	120.44
2	i	150	VAL	C-N-CA	7.68	130.43	120.44
2	j	34	GLY	CA-C-N	7.68	131.20	120.29
2	j	34	GLY	C-N-CA	7.68	131.20	120.29
3	M	294	ASP	CA-CB-CG	-7.68	104.92	112.60
1	A	11	ALA	N-CA-CB	7.68	124.48	111.66
3	L	173	GLU	CA-C-N	7.68	128.29	120.38
3	L	173	GLU	C-N-CA	7.68	128.29	120.38
3	I	257	GLY	CA-C-N	7.67	135.51	121.70
3	I	257	GLY	C-N-CA	7.67	135.51	121.70
3	K	153	ILE	N-CA-C	-7.67	102.97	110.72
1	d	100	ARG	NE-CZ-NH2	7.67	126.10	119.20
1	d	21	LEU	CA-C-N	7.67	131.96	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	21	LEU	C-N-CA	7.67	131.96	120.31
2	5	33	MET	N-CA-C	-7.66	103.28	114.39
1	a	40	ILE	N-CA-C	-7.66	97.11	108.45
1	e	110	LYS	O-C-N	7.64	130.22	122.12
2	i	143	GLY	CA-C-N	7.64	130.84	120.38
2	i	143	GLY	C-N-CA	7.64	130.84	120.38
1	g	145	PRO	N-CA-CB	7.63	110.14	103.27
1	d	10	ARG	NE-CZ-NH2	7.63	126.07	119.20
1	f	235	ARG	NE-CZ-NH2	7.62	126.06	119.20
2	n	143	GLY	CA-C-N	7.62	130.49	120.28
2	n	143	GLY	C-N-CA	7.62	130.49	120.28
2	3	201	PRO	CA-C-N	7.62	130.82	120.54
2	3	201	PRO	C-N-CA	7.62	130.82	120.54
3	L	300	PRO	N-CA-CB	7.61	109.72	103.32
3	K	276	ASP	N-CA-C	-7.61	99.81	110.31
1	A	23	GLN	CA-C-O	7.61	128.62	120.55
2	2	24	VAL	N-CA-C	-7.61	97.19	108.45
3	H	165	GLU	N-CA-C	7.61	119.57	111.28
1	g	190	VAL	CA-C-N	7.61	131.09	120.29
1	g	190	VAL	C-N-CA	7.61	131.09	120.29
1	D	185	PHE	CA-C-N	7.61	131.09	120.29
1	D	185	PHE	C-N-CA	7.61	131.09	120.29
2	i	160	GLY	N-CA-C	-7.60	100.88	112.89
3	I	165	GLU	N-CA-C	7.60	122.13	113.01
1	F	82	VAL	CB-CA-C	-7.60	101.74	112.22
3	L	18	GLU	N-CA-C	7.60	119.20	111.07
1	c	100	ARG	NE-CZ-NH2	7.59	126.03	119.20
3	J	29	ARG	N-CA-C	7.59	119.55	111.28
3	K	147	ASP	CA-CB-CG	-7.58	105.02	112.60
1	G	84	ASP	N-CA-C	-7.58	102.68	112.23
1	b	148	TYR	N-CA-C	-7.57	97.81	109.24
2	k	154	ARG	CD-NE-CZ	-7.57	113.80	124.40
3	K	321	PHE	N-CA-CB	7.57	120.99	110.01
2	n	70	ILE	N-CA-C	7.56	118.33	110.62
1	f	236	ALA	CA-C-N	7.55	130.40	120.28
1	f	236	ALA	C-N-CA	7.55	130.40	120.28
3	H	353	ALA	N-CA-C	7.55	119.51	111.28
2	l	21	ASP	CA-CB-CG	7.55	120.15	112.60
3	M	242	GLU	N-CA-C	-7.55	94.72	110.80
2	6	77	TYR	CA-C-N	7.54	130.70	120.44
2	6	77	TYR	C-N-CA	7.54	130.70	120.44
1	G	27	ALA	CA-C-N	7.54	130.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	27	ALA	C-N-CA	7.54	130.39	120.28
1	g	212	GLY	CA-C-O	7.54	128.26	121.47
2	i	97	LEU	CB-CA-C	-7.54	98.27	110.79
2	h	21	ASP	CA-C-N	7.54	128.15	121.82
2	h	21	ASP	C-N-CA	7.54	128.15	121.82
2	4	128	ILE	N-CA-C	-7.53	105.37	112.83
1	b	145	PRO	O-C-N	-7.53	114.06	123.10
1	d	151	ASP	CA-C-O	-7.53	113.18	120.64
1	E	169	ASN	CA-C-N	7.53	130.98	120.29
1	E	169	ASN	C-N-CA	7.53	130.98	120.29
3	I	183	PRO	N-CA-CB	7.53	107.14	103.22
2	1	138	VAL	O-C-N	-7.52	116.43	122.97
3	K	303	PHE	CA-C-N	7.52	130.68	120.38
3	K	303	PHE	C-N-CA	7.52	130.68	120.38
2	h	25	MET	O-C-N	-7.52	114.68	123.25
2	1	141	GLY	N-CA-C	-7.51	99.64	110.60
1	c	70	ILE	N-CA-C	-7.50	106.58	113.71
1	f	115	LYS	CA-C-N	7.50	132.94	120.64
1	f	115	LYS	C-N-CA	7.50	132.94	120.64
3	M	72	LEU	N-CA-C	-7.50	99.11	110.14
1	B	169	ASN	N-CA-C	7.50	119.45	111.28
3	L	109	ASN	N-CA-CB	7.50	122.13	110.21
2	1	150	VAL	N-CA-C	7.49	118.26	110.62
3	I	255	THR	O-C-N	-7.49	114.11	123.17
1	D	8	TYR	N-CA-C	-7.49	103.22	112.88
2	j	206	GLN	OE1-CD-NE2	-7.49	115.11	122.60
2	7	203	GLU	N-CA-C	7.49	119.44	111.28
3	I	119	LEU	N-CA-CB	7.48	119.08	110.03
1	G	74	ILE	N-CA-C	-7.47	97.39	108.45
2	6	98	LEU	CA-C-O	-7.47	111.65	120.10
2	6	150	VAL	N-CA-C	7.47	117.60	110.42
1	D	241	ARG	O-C-N	7.46	130.03	122.12
2	7	170	ARG	NE-CZ-NH1	-7.46	114.04	121.50
2	1	196	PHE	CA-CB-CG	7.46	121.25	113.80
1	F	9	ASP	CA-CB-CG	7.45	120.05	112.60
2	7	87	VAL	CB-CA-C	-7.45	102.28	112.04
3	J	203	PHE	CB-CA-C	7.45	122.71	110.78
1	B	63	THR	CA-C-N	7.45	135.37	121.97
1	B	63	THR	C-N-CA	7.45	135.37	121.97
3	H	112	THR	CA-C-N	7.45	133.20	122.40
3	H	112	THR	C-N-CA	7.45	133.20	122.40
2	1	190	LYS	N-CA-C	-7.44	97.27	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	193	LEU	CA-C-N	7.44	129.93	120.56
1	f	193	LEU	C-N-CA	7.44	129.93	120.56
1	E	218	ASP	CA-C-N	7.44	133.61	122.68
1	E	218	ASP	C-N-CA	7.44	133.61	122.68
3	M	226	VAL	N-CA-CB	7.43	120.65	110.54
3	L	116	VAL	CA-CB-CG2	-7.43	97.77	110.40
2	5	167	LEU	CA-C-N	7.43	130.23	120.28
2	5	167	LEU	C-N-CA	7.43	130.23	120.28
2	l	169	VAL	N-CA-C	7.43	118.19	110.62
3	L	347	SER	CA-C-N	7.42	129.42	120.14
3	L	347	SER	C-N-CA	7.42	129.42	120.14
2	6	48	ILE	N-CA-C	-7.42	103.71	111.58
3	H	286	ALA	CA-C-O	7.42	129.06	120.89
1	A	142	ASP	N-CA-C	-7.42	102.35	111.40
1	d	112	LEU	CA-C-N	7.42	130.09	120.44
1	d	112	LEU	C-N-CA	7.42	130.09	120.44
1	a	43	LYS	N-CA-C	-7.41	104.26	113.38
2	h	63	ALA	CA-C-N	7.41	130.82	120.29
2	h	63	ALA	C-N-CA	7.41	130.82	120.29
3	L	45	GLU	N-CA-C	7.41	119.36	111.28
3	J	395	VAL	N-CA-C	-7.41	105.55	112.96
3	I	98	GLU	N-CA-C	-7.41	104.09	113.72
1	D	160	LYS	O-C-N	7.41	131.21	122.24
3	M	314	PHE	CA-CB-CG	7.40	121.20	113.80
3	J	227	PHE	CA-CB-CG	-7.40	106.40	113.80
1	a	224	VAL	CA-C-N	7.40	130.68	120.39
1	a	224	VAL	C-N-CA	7.40	130.68	120.39
2	k	102	ARG	NE-CZ-NH1	-7.40	114.10	121.50
2	n	161	VAL	CA-C-N	7.40	133.23	120.58
2	n	161	VAL	C-N-CA	7.40	133.23	120.58
2	5	179	ASP	CA-CB-CG	-7.40	105.20	112.60
2	n	121	SER	N-CA-CB	7.40	122.99	110.49
3	J	102	PRO	O-C-N	7.40	127.98	122.73
1	c	21	LEU	CB-CA-C	-7.39	96.39	109.62
3	J	102	PRO	CB-CA-C	7.39	118.08	111.87
2	j	158	GLU	CB-CG-CD	-7.38	100.05	112.60
3	K	198	GLN	OE1-CD-NE2	7.38	129.98	122.60
1	a	198	LEU	CA-C-N	7.38	130.04	120.44
1	a	198	LEU	C-N-CA	7.38	130.04	120.44
1	g	208	ASN	CA-C-N	7.38	132.86	122.23
1	g	208	ASN	C-N-CA	7.38	132.86	122.23
3	L	16	LEU	CA-C-N	7.38	130.50	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	16	LEU	C-N-CA	7.38	130.50	120.54
2	4	147	ALA	CA-C-N	7.38	130.16	120.28
2	4	147	ALA	C-N-CA	7.38	130.16	120.28
3	L	26	LEU	CA-C-N	7.38	131.52	120.31
3	L	26	LEU	C-N-CA	7.38	131.52	120.31
3	K	212	VAL	CA-C-N	7.37	132.51	120.94
3	K	212	VAL	C-N-CA	7.37	132.51	120.94
2	7	194	ASP	CA-CB-CG	-7.37	105.23	112.60
3	L	297	ILE	CA-C-O	7.37	125.96	118.96
1	b	17	PRO	O-C-N	7.37	131.07	122.23
2	k	194	ASP	CB-CA-C	-7.37	99.66	109.16
1	b	180	ARG	NE-CZ-NH2	7.36	125.83	119.20
1	g	56	SER	N-CA-C	7.36	120.08	110.43
2	m	92	THR	CA-C-O	-7.36	112.75	120.55
3	K	377	LYS	CA-C-O	7.36	128.22	120.42
1	d	108	THR	CA-C-N	7.36	130.87	120.42
1	d	108	THR	C-N-CA	7.36	130.87	120.42
1	E	90	ASP	CA-CB-CG	-7.36	105.25	112.60
1	C	151	ASP	N-CA-C	-7.35	98.85	110.10
1	F	75	CYS	N-CA-CB	7.35	121.97	110.87
1	d	109	VAL	O-C-N	7.35	129.40	121.83
1	A	202	SER	CA-C-N	7.34	131.30	120.87
1	A	202	SER	C-N-CA	7.34	131.30	120.87
2	h	62	ASP	CA-C-N	7.34	130.43	120.44
2	h	62	ASP	C-N-CA	7.34	130.43	120.44
3	J	102	PRO	N-CA-CB	7.34	107.03	102.92
2	l	21	ASP	CA-C-O	7.34	128.50	121.67
3	J	83	THR	O-C-N	7.33	129.62	122.07
1	b	98	ILE	N-CA-C	-7.33	103.32	110.72
2	3	87	VAL	CA-C-N	7.33	130.10	120.28
2	3	87	VAL	C-N-CA	7.33	130.10	120.28
3	I	69	SER	N-CA-C	-7.32	100.35	111.56
3	M	188	LYS	N-CA-C	-7.32	104.20	113.43
2	1	60	VAL	N-CA-CB	7.32	118.92	110.65
1	C	67	ILE	N-CA-CB	7.32	123.30	111.23
1	D	173	GLU	CA-C-N	7.32	129.95	120.44
1	D	173	GLU	C-N-CA	7.32	129.95	120.44
3	K	339	LEU	CA-C-N	7.31	130.81	120.28
3	K	339	LEU	C-N-CA	7.31	130.81	120.28
2	i	19	CYS	N-CA-CB	7.31	123.04	111.20
2	k	132	ILE	N-CA-C	-7.30	97.89	108.11
3	J	174	PRO	N-CA-CB	7.30	110.16	103.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	208	ASN	N-CA-C	-7.30	102.37	112.30
2	3	62	ASP	CA-CB-CG	-7.30	105.30	112.60
1	e	123	TYR	CA-C-O	7.29	127.07	119.05
1	g	223	GLU	CA-C-O	7.29	128.24	120.36
1	C	141	VAL	N-CA-C	-7.29	96.98	107.77
2	4	20	LYS	N-CA-C	-7.29	103.98	113.17
2	h	49	ALA	O-C-N	-7.29	114.39	122.92
1	b	129	VAL	CB-CA-C	7.29	121.96	110.52
1	e	87	VAL	N-CA-C	-7.29	103.36	110.72
2	j	115	ILE	CB-CA-C	7.29	121.61	111.19
2	7	144	SER	N-CA-C	7.28	120.14	111.33
2	i	75	ASN	CA-C-N	7.28	130.04	120.28
2	i	75	ASN	C-N-CA	7.28	130.04	120.28
1	G	197	GLY	CA-C-N	7.28	130.76	120.28
1	G	197	GLY	C-N-CA	7.28	130.76	120.28
2	i	157	PRO	N-CA-C	-7.28	104.47	114.80
1	g	174	PHE	O-C-N	-7.27	114.41	122.12
3	H	354	ILE	CA-C-N	7.27	129.89	120.44
3	H	354	ILE	C-N-CA	7.27	129.89	120.44
1	A	71	ASP	CA-C-N	7.27	130.02	120.28
1	A	71	ASP	C-N-CA	7.27	130.02	120.28
1	a	126	TYR	CB-CG-CD1	7.27	131.70	120.80
1	b	30	ALA	CA-C-O	-7.27	112.72	120.42
1	G	190	VAL	CA-C-O	7.27	128.51	120.95
3	I	288	ASN	CA-CB-CG	7.26	119.86	112.60
3	M	299	ARG	N-CA-C	-7.26	100.61	109.83
3	H	341	ARG	O-C-N	7.25	129.54	122.07
3	K	364	ARG	CA-C-N	7.25	131.33	120.31
3	K	364	ARG	C-N-CA	7.25	131.33	120.31
1	b	85	ALA	CA-C-N	7.24	129.99	120.28
1	b	85	ALA	C-N-CA	7.24	129.99	120.28
1	B	222	LYS	N-CA-C	-7.24	97.62	108.99
2	j	91	ALA	CA-C-N	7.24	129.98	120.28
2	j	91	ALA	C-N-CA	7.24	129.98	120.28
3	K	228	GLN	CA-C-N	7.24	130.71	120.28
3	K	228	GLN	C-N-CA	7.24	130.71	120.28
2	1	184	ASP	CA-C-N	7.24	128.89	120.71
2	1	184	ASP	C-N-CA	7.24	128.89	120.71
1	b	84	ASP	CA-C-N	7.23	129.97	120.28
1	b	84	ASP	C-N-CA	7.23	129.97	120.28
3	M	84	GLY	CA-C-O	-7.23	111.17	121.52
2	h	139	ALA	CA-C-N	7.23	135.35	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	h	139	ALA	C-N-CA	7.23	135.35	121.54
2	7	74	ALA	N-CA-C	-7.23	103.48	111.36
1	E	244	LEU	N-CA-C	-7.23	104.48	112.72
2	m	80	ARG	CB-CA-C	-7.22	98.57	110.85
3	J	275	PHE	CA-C-O	7.22	128.07	120.42
1	B	224	VAL	N-CA-CB	7.22	120.15	110.26
3	H	56	GLU	CA-C-N	7.22	129.82	120.44
3	H	56	GLU	C-N-CA	7.22	129.82	120.44
3	H	368	ALA	N-CA-C	-7.21	103.94	114.39
1	C	208	ASN	CA-CB-CG	7.21	119.81	112.60
1	A	169	ASN	CA-C-N	7.21	129.81	120.44
1	A	169	ASN	C-N-CA	7.21	129.81	120.44
1	G	216	VAL	CA-C-O	-7.21	113.05	121.05
3	M	78	VAL	N-CA-CB	7.20	119.02	110.95
2	m	203	GLU	CA-C-N	7.20	130.64	120.42
2	m	203	GLU	C-N-CA	7.20	130.64	120.42
3	I	379	ILE	CA-C-N	7.20	129.92	120.28
3	I	379	ILE	C-N-CA	7.20	129.92	120.28
1	G	176	GLU	N-CA-C	-7.20	103.44	111.71
3	J	225	GLU	N-CA-CB	7.20	120.44	110.01
2	6	165	VAL	N-CA-CB	7.19	121.37	110.58
3	H	195	VAL	CA-C-N	7.19	129.92	120.28
3	H	195	VAL	C-N-CA	7.19	129.92	120.28
2	k	207	ILE	N-CA-C	7.19	117.98	110.72
2	n	163	GLU	CA-C-N	7.19	131.24	120.31
2	n	163	GLU	C-N-CA	7.19	131.24	120.31
1	f	235	ARG	NE-CZ-NH1	-7.19	114.31	121.50
3	J	90	ASN	CA-CB-CG	7.18	119.78	112.60
1	a	116	ILE	N-CA-CB	7.18	121.35	110.58
1	E	182	ASP	N-CA-C	-7.18	101.43	112.99
3	K	146	LEU	CA-C-N	7.18	130.23	120.54
3	K	146	LEU	C-N-CA	7.18	130.23	120.54
1	c	91	ARG	O-C-N	7.17	129.46	122.07
3	J	322	LYS	CA-C-N	7.17	129.60	120.56
3	J	322	LYS	C-N-CA	7.17	129.60	120.56
1	f	245	LYS	N-CA-C	-7.17	105.71	114.75
2	3	102	ARG	CA-C-N	7.17	129.76	120.44
2	3	102	ARG	C-N-CA	7.17	129.76	120.44
2	2	202	GLU	N-CA-CB	7.17	120.62	109.94
2	5	60	VAL	CA-C-N	7.17	127.89	119.94
2	5	60	VAL	C-N-CA	7.17	127.89	119.94
1	B	84	ASP	CA-C-N	7.17	130.46	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	84	ASP	C-N-CA	7.17	130.46	120.29
1	e	170	ALA	N-CA-C	7.16	118.73	111.07
3	J	25	GLU	N-CA-C	7.16	119.08	111.28
1	A	54	VAL	O-C-N	-7.16	114.80	123.03
2	1	81	ARG	N-CA-C	-7.16	104.70	113.50
2	5	153	ASP	CA-CB-CG	7.16	119.76	112.60
3	I	112	THR	CA-C-N	7.16	132.29	122.34
3	I	112	THR	C-N-CA	7.16	132.29	122.34
2	3	35	ASN	CA-CB-CG	-7.15	105.45	112.60
3	L	34	LYS	CA-C-N	7.15	129.86	120.28
3	L	34	LYS	C-N-CA	7.15	129.86	120.28
1	e	110	LYS	CA-C-O	-7.15	112.97	120.55
1	b	165	GLY	N-CA-C	-7.15	99.95	112.53
1	c	54	VAL	N-CA-C	-7.15	98.20	108.42
2	h	46	TYR	N-CA-C	-7.15	97.31	109.24
2	3	28	GLU	N-CA-C	-7.14	96.69	108.76
1	C	144	VAL	CA-C-O	-7.14	113.30	121.59
1	E	236	ALA	CA-C-N	7.14	129.85	120.28
1	E	236	ALA	C-N-CA	7.14	129.85	120.28
1	f	77	ALA	N-CA-CB	-7.14	100.07	111.43
2	j	52	MET	CA-C-O	7.14	128.07	120.36
2	j	187	ASP	CA-CB-CG	7.14	119.74	112.60
2	7	36	PHE	CA-CB-CG	-7.14	106.66	113.80
1	d	165	GLY	CA-C-N	7.13	129.71	120.44
1	d	165	GLY	C-N-CA	7.13	129.71	120.44
1	b	40	ILE	N-CA-CB	7.13	121.92	111.52
1	A	81	LEU	CA-C-N	7.12	130.22	120.46
1	A	81	LEU	C-N-CA	7.12	130.22	120.46
2	k	35	ASN	CA-CB-CG	-7.12	105.48	112.60
2	h	143	GLY	CA-C-N	7.11	129.80	120.28
2	h	143	GLY	C-N-CA	7.11	129.80	120.28
3	J	313	THR	CA-C-N	7.11	129.68	120.44
3	J	313	THR	C-N-CA	7.11	129.68	120.44
1	d	46	VAL	N-CA-C	-7.11	97.80	108.17
1	F	61	ALA	CB-CA-C	-7.10	98.55	110.56
3	M	207	VAL	O-C-N	-7.10	113.73	122.61
3	M	147	ASP	CA-CB-CG	-7.10	105.50	112.60
1	B	89	ILE	CA-C-N	7.10	130.09	120.44
1	B	89	ILE	C-N-CA	7.10	130.09	120.44
1	g	20	ARG	NE-CZ-NH2	-7.10	112.81	119.20
2	6	166	GLU	CA-C-N	7.10	129.79	120.28
2	6	166	GLU	C-N-CA	7.10	129.79	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	22	LYS	CA-C-O	-7.10	113.03	120.55
1	c	12	ILE	CA-C-O	7.10	129.65	120.78
1	a	123	TYR	N-CA-C	-7.09	104.43	113.23
1	g	92	ALA	CA-C-N	7.09	130.36	120.29
1	g	92	ALA	C-N-CA	7.09	130.36	120.29
2	j	187	ASP	CA-C-O	7.09	128.23	120.71
2	n	166	GLU	CA-C-N	7.09	130.36	120.29
2	n	166	GLU	C-N-CA	7.09	130.36	120.29
2	7	107	LEU	CA-C-O	7.09	127.99	120.33
3	J	187	GLY	CA-C-N	7.09	129.78	120.28
3	J	187	GLY	C-N-CA	7.09	129.78	120.28
2	7	172	ILE	N-CA-C	-7.09	103.56	110.72
3	L	165	GLU	CA-C-N	7.09	130.49	120.28
3	L	165	GLU	C-N-CA	7.09	130.49	120.28
1	G	22	PHE	CA-CB-CG	7.09	120.89	113.80
3	I	359	GLY	O-C-N	-7.09	115.39	122.19
3	M	135	LYS	CA-C-N	7.09	128.70	119.84
3	M	135	LYS	C-N-CA	7.09	128.70	119.84
2	5	174	SER	CA-C-O	-7.08	113.38	120.82
3	J	100	LEU	CA-C-O	7.08	129.63	121.28
2	h	33	MET	N-CA-C	-7.08	97.02	109.06
2	7	22	GLY	O-C-N	-7.08	116.08	123.58
1	g	185	PHE	CA-C-O	7.08	128.05	120.55
1	D	60	GLU	N-CA-CB	7.07	120.50	110.24
3	K	283	VAL	N-CA-C	-7.07	98.27	108.17
3	J	111	GLN	OE1-CD-NE2	7.07	129.67	122.60
1	d	245	LYS	N-CA-C	-7.07	105.19	114.31
1	C	180	ARG	NE-CZ-NH2	7.07	125.56	119.20
1	E	142	ASP	N-CA-CB	7.07	120.65	110.40
3	L	211	PHE	CA-CB-CG	-7.07	106.73	113.80
2	7	89	ALA	CA-C-N	7.06	130.45	120.42
2	7	89	ALA	C-N-CA	7.06	130.45	120.42
1	e	186	ASP	CA-CB-CG	-7.06	105.54	112.60
3	J	128	TYR	N-CA-C	-7.06	104.82	113.50
2	k	105	PRO	N-CA-CB	7.06	109.59	103.31
3	H	344	GLU	CB-CG-CD	-7.05	100.61	112.60
2	2	70	ILE	CA-C-N	7.05	130.06	120.54
2	2	70	ILE	C-N-CA	7.05	130.06	120.54
3	M	143	ILE	CA-C-O	7.05	128.76	120.72
3	J	386	THR	N-CA-C	-7.05	98.64	109.14
2	2	176	MET	CA-C-N	7.05	132.49	120.72
2	2	176	MET	C-N-CA	7.05	132.49	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	259	ARG	NE-CZ-NH2	-7.05	112.86	119.20
2	2	138	VAL	CA-C-O	-7.05	113.93	121.19
2	1	209	ALA	CA-C-O	7.04	128.13	119.11
1	D	232	TYR	CA-C-N	7.04	130.11	120.46
1	D	232	TYR	C-N-CA	7.04	130.11	120.46
2	4	61	GLY	O-C-N	7.04	129.02	122.19
1	e	235	ARG	CA-C-N	7.04	130.01	120.44
1	e	235	ARG	C-N-CA	7.04	130.01	120.44
3	L	275	PHE	CA-CB-CG	7.04	120.84	113.80
1	A	241	ARG	CA-C-O	-7.04	113.09	120.55
1	a	171	VAL	CA-C-O	-7.03	113.39	120.85
2	h	200	SER	CA-C-N	7.03	127.34	119.32
2	h	200	SER	C-N-CA	7.03	127.34	119.32
3	J	352	LYS	CA-C-N	7.03	130.28	120.29
3	J	352	LYS	C-N-CA	7.03	130.28	120.29
2	l	122	ILE	N-CA-C	-7.03	97.98	108.46
3	H	122	SER	CA-C-N	7.03	131.97	120.94
3	H	122	SER	C-N-CA	7.03	131.97	120.94
2	k	75	ASN	CA-CB-CG	-7.03	105.57	112.60
3	L	180	LEU	N-CA-CB	7.03	122.11	110.52
1	A	32	LYS	O-C-N	7.02	130.44	122.22
2	n	65	PHE	CA-CB-CG	-7.02	106.78	113.80
3	M	303	PHE	CA-CB-CG	-7.02	106.78	113.80
1	e	143	GLU	CA-C-N	7.01	132.55	122.24
1	e	143	GLU	C-N-CA	7.01	132.55	122.24
3	M	396	MET	N-CA-C	-7.01	104.60	113.72
2	7	169	VAL	N-CA-CB	7.01	118.75	110.55
1	d	148	TYR	CA-C-O	-7.01	113.48	121.40
1	f	164	ILE	O-C-N	-7.01	115.10	123.02
2	5	27	THR	N-CA-C	-7.01	98.70	109.14
2	l	147	ALA	CA-C-N	7.01	129.67	120.28
2	l	147	ALA	C-N-CA	7.01	129.67	120.28
3	M	280	ASP	N-CA-C	-7.01	95.88	110.80
1	A	30	ALA	CA-C-N	7.00	129.53	120.56
1	A	30	ALA	C-N-CA	7.00	129.53	120.56
3	L	188	LYS	CA-C-N	7.00	130.24	120.29
3	L	188	LYS	C-N-CA	7.00	130.24	120.29
2	h	196	PHE	N-CA-CB	7.00	122.28	110.87
1	B	169	ASN	CA-CB-CG	-7.00	105.60	112.60
1	B	171	VAL	CA-CB-CG2	-7.00	98.50	110.40
1	G	181	ASP	CA-CB-CG	-6.99	105.61	112.60
2	m	83	ARG	CA-C-N	6.99	131.31	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	m	83	ARG	C-N-CA	6.99	131.31	120.68
3	J	110	GLN	N-CA-CB	6.99	122.00	110.39
1	E	140	GLY	CA-C-O	-6.99	114.82	121.60
1	e	97	GLN	CA-C-N	6.99	131.76	120.30
1	e	97	GLN	C-N-CA	6.99	131.76	120.30
2	5	179	ASP	N-CA-C	-6.99	98.46	109.50
2	l	73	GLU	CA-C-N	6.99	130.21	120.29
2	l	73	GLU	C-N-CA	6.99	130.21	120.29
1	C	149	GLU	N-CA-C	-6.99	96.89	108.34
2	2	211	PHE	N-CA-C	-6.98	103.75	112.90
2	1	129	GLY	N-CA-C	-6.98	104.92	112.04
3	L	319	GLN	OE1-CD-NE2	6.98	129.58	122.60
2	k	196	PHE	CA-CB-CG	-6.98	106.82	113.80
3	L	143	ILE	CA-C-N	6.98	135.09	121.41
3	L	143	ILE	C-N-CA	6.98	135.09	121.41
3	J	145	GLY	CA-C-O	6.98	126.33	118.86
3	J	273	ASP	CA-CB-CG	6.98	119.58	112.60
1	e	184	SER	N-CA-CB	6.98	121.03	110.42
1	e	20	ARG	N-CA-C	6.97	119.31	110.24
1	E	20	ARG	NH1-CZ-NH2	6.97	128.37	119.30
1	e	237	ASN	CA-C-N	6.97	129.50	120.44
1	e	237	ASN	C-N-CA	6.97	129.50	120.44
2	5	155	PHE	CA-C-O	6.97	128.93	120.92
2	i	77	TYR	N-CA-C	-6.96	103.69	111.28
2	5	133	GLU	CB-CG-CD	-6.96	100.77	112.60
2	6	28	GLU	N-CA-CB	6.96	121.50	110.23
1	E	205	VAL	N-CA-CB	6.96	117.58	111.67
2	5	103	TYR	N-CA-C	-6.96	104.40	113.17
3	L	333	ASP	N-CA-C	-6.96	103.91	112.88
2	i	183	GLY	CA-C-N	6.96	130.71	120.90
2	i	183	GLY	C-N-CA	6.96	130.71	120.90
1	f	73	HIS	CA-CB-CG	6.95	120.75	113.80
2	j	47	GLN	CA-C-N	6.95	129.46	120.56
2	j	47	GLN	C-N-CA	6.95	129.46	120.56
2	n	180	SER	N-CA-CB	6.95	120.71	110.35
3	L	200	ARG	CD-NE-CZ	-6.95	114.67	124.40
1	F	232	TYR	CA-CB-CG	-6.95	101.39	113.90
2	4	165	VAL	CA-C-O	-6.95	113.48	120.85
1	b	196	MET	N-CA-C	6.94	118.50	111.07
1	c	92	ALA	CA-C-N	6.94	129.47	120.44
1	c	92	ALA	C-N-CA	6.94	129.47	120.44
3	M	225	GLU	N-CA-C	6.94	118.85	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	132	PHE	CA-CB-CG	6.94	120.74	113.80
3	L	259	ARG	CA-C-O	-6.94	113.14	120.63
2	6	158	GLU	N-CA-C	-6.93	103.16	112.94
1	F	164	ILE	N-CA-C	-6.93	97.39	108.90
2	k	72	ILE	N-CA-C	6.93	117.69	110.62
2	7	80	ARG	N-CA-C	6.93	118.49	111.07
2	k	102	ARG	NE-CZ-NH2	6.93	125.44	119.20
2	7	211	PHE	CA-C-N	6.93	130.63	121.90
2	7	211	PHE	C-N-CA	6.93	130.63	121.90
2	4	186	ILE	N-CA-C	-6.93	98.14	108.46
3	L	152	GLU	CA-C-N	6.93	132.00	120.64
3	L	152	GLU	C-N-CA	6.93	132.00	120.64
1	b	73	HIS	CA-CB-CG	6.92	120.72	113.80
3	L	148	VAL	CA-C-O	-6.92	111.20	119.58
1	E	216	VAL	O-C-N	6.92	128.58	121.87
2	6	211	PHE	CA-CB-CG	-6.92	106.88	113.80
3	I	207	VAL	N-CA-C	-6.92	97.58	108.86
1	B	224	VAL	N-CA-C	-6.92	99.80	109.21
3	L	50	ARG	N-CA-CB	6.92	120.29	110.12
2	3	48	ILE	O-C-N	6.91	128.13	121.98
1	d	176	GLU	O-C-N	6.91	129.44	122.12
2	l	148	TYR	CA-C-N	6.91	127.61	119.94
2	l	148	TYR	C-N-CA	6.91	127.61	119.94
2	7	173	TYR	CA-C-N	6.91	129.54	120.28
2	7	173	TYR	C-N-CA	6.91	129.54	120.28
2	h	154	ARG	N-CA-C	-6.91	103.20	112.94
3	M	332	GLU	CB-CG-CD	-6.91	100.86	112.60
3	J	264	THR	CA-C-N	6.91	129.42	120.44
3	J	264	THR	C-N-CA	6.91	129.42	120.44
1	D	194	VAL	CA-C-N	6.91	129.42	120.44
1	D	194	VAL	C-N-CA	6.91	129.42	120.44
3	J	275	PHE	CA-CB-CG	-6.91	106.89	113.80
3	K	331	ALA	N-CA-C	-6.90	98.68	108.96
1	d	143	GLU	N-CA-C	-6.90	96.11	110.80
2	6	49	ALA	CA-C-N	6.90	129.52	120.28
2	6	49	ALA	C-N-CA	6.90	129.52	120.28
2	m	55	THR	N-CA-C	-6.90	98.60	109.50
3	K	88	VAL	N-CA-CB	6.90	118.24	110.72
2	6	68	ARG	NE-CZ-NH2	-6.89	113.00	119.20
2	3	171	ALA	CA-C-N	6.89	130.21	120.42
2	3	171	ALA	C-N-CA	6.89	130.21	120.42
2	5	136	ASP	N-CA-C	6.89	125.48	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	109	ASN	CA-CB-CG	6.89	119.49	112.60
1	d	182	ASP	N-CA-C	-6.89	104.62	113.16
1	B	151	ASP	CA-C-O	-6.89	114.11	121.27
1	e	33	ARG	NE-CZ-NH2	6.88	125.40	119.20
2	3	81	ARG	N-CA-C	-6.88	104.69	113.23
1	B	129	VAL	CB-CA-C	6.88	122.57	111.29
2	k	144	SER	O-C-N	6.88	129.99	122.15
2	m	41	ALA	N-CA-C	-6.88	98.19	108.99
2	6	191	ILE	CB-CA-C	-6.88	104.29	111.23
1	c	211	VAL	CA-C-N	6.87	128.77	121.48
1	c	211	VAL	C-N-CA	6.87	128.77	121.48
1	D	126	TYR	N-CA-CB	6.87	120.21	109.83
2	j	180	SER	N-CA-C	-6.87	102.33	113.19
1	g	15	PHE	CA-CB-CG	-6.87	106.93	113.80
3	K	172	ILE	N-CA-C	-6.87	99.90	109.45
2	6	63	ALA	CA-C-O	-6.87	113.63	120.70
1	C	151	ASP	CA-C-N	6.86	126.83	119.28
1	C	151	ASP	C-N-CA	6.86	126.83	119.28
3	I	302	ARG	N-CA-C	-6.86	103.32	113.61
1	c	182	ASP	N-CA-C	-6.86	104.48	112.92
1	C	211	VAL	N-CA-CB	6.85	122.68	111.58
1	F	29	GLU	CA-C-N	6.85	130.02	120.29
1	F	29	GLU	C-N-CA	6.85	130.02	120.29
2	2	203	GLU	CA-C-N	6.85	129.84	120.46
2	2	203	GLU	C-N-CA	6.85	129.84	120.46
2	l	135	LYS	N-CA-C	-6.85	103.33	113.61
3	I	395	VAL	N-CA-C	-6.85	105.66	112.17
1	a	195	ALA	N-CA-C	6.85	118.74	111.28
2	m	170	ARG	CA-C-N	6.85	129.75	120.44
2	m	170	ARG	C-N-CA	6.85	129.75	120.44
1	d	139	ALA	CA-C-O	6.85	127.92	120.32
2	7	75	ASN	CA-C-N	6.85	129.45	120.28
2	7	75	ASN	C-N-CA	6.85	129.45	120.28
1	F	217	ASP	N-CA-CB	6.84	120.29	110.16
3	J	288	ASN	OD1-CG-ND2	6.84	129.44	122.60
2	m	156	THR	CA-CB-OG1	6.84	119.86	109.60
3	K	336	PHE	CA-C-O	6.84	126.95	119.15
3	L	29	ARG	CB-CA-C	-6.84	99.44	110.79
2	k	132	ILE	CA-C-O	6.84	127.57	120.39
3	I	88	VAL	N-CA-CB	6.83	119.20	111.21
1	E	215	LYS	CA-C-N	6.83	129.82	120.46
1	E	215	LYS	C-N-CA	6.83	129.82	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	180	ARG	CD-NE-CZ	-6.83	114.84	124.40
1	D	205	VAL	CA-C-N	6.83	128.38	119.84
1	D	205	VAL	C-N-CA	6.83	128.38	119.84
3	H	21	TYR	CA-C-N	6.83	129.43	120.28
3	H	21	TYR	C-N-CA	6.83	129.43	120.28
2	2	109	GLN	N-CA-C	-6.83	97.77	108.90
2	4	153	ASP	N-CA-C	-6.83	103.30	111.69
1	f	112	LEU	N-CA-C	-6.82	103.77	111.14
2	7	176	MET	N-CA-CB	6.82	120.25	110.16
1	a	169	ASN	N-CA-C	6.82	119.29	111.11
1	A	136	LEU	N-CA-CB	6.81	121.75	110.85
3	K	46	ARG	CA-C-N	6.81	129.96	120.29
3	K	46	ARG	C-N-CA	6.81	129.96	120.29
3	M	337	LYS	N-CA-CB	6.81	120.24	110.16
1	d	107	ILE	CA-C-O	-6.81	113.32	121.28
1	d	144	VAL	CA-C-N	6.81	126.84	119.90
1	d	144	VAL	C-N-CA	6.81	126.84	119.90
1	d	226	PRO	N-CA-CB	6.81	110.40	103.25
2	n	156	THR	CA-C-N	6.81	126.41	119.19
2	n	156	THR	C-N-CA	6.81	126.41	119.19
1	f	144	VAL	N-CA-CB	6.81	120.74	111.21
2	1	104	PHE	CA-C-N	6.80	126.74	120.21
2	1	104	PHE	C-N-CA	6.80	126.74	120.21
2	7	178	ARG	NE-CZ-NH2	6.80	125.33	119.20
2	m	68	ARG	CA-C-N	6.80	129.13	120.56
2	m	68	ARG	C-N-CA	6.80	129.13	120.56
2	3	170	ARG	CA-C-N	6.80	129.28	120.44
2	3	170	ARG	C-N-CA	6.80	129.28	120.44
3	H	111	GLN	N-CA-C	-6.80	105.02	113.38
3	M	335	ASP	CA-CB-CG	6.80	119.40	112.60
2	m	154	ARG	N-CA-C	-6.80	102.45	113.19
1	F	196	MET	O-C-N	-6.79	114.41	122.15
2	5	166	GLU	CA-C-N	6.79	129.38	120.28
2	5	166	GLU	C-N-CA	6.79	129.38	120.28
1	C	225	SER	CA-C-O	-6.79	113.11	120.17
1	c	212	GLY	N-CA-C	-6.79	101.19	111.10
1	d	85	ALA	N-CA-C	6.79	119.26	111.11
1	B	26	TYR	N-CA-C	-6.79	104.89	113.72
2	3	139	ALA	CA-C-N	6.79	133.92	121.70
2	3	139	ALA	C-N-CA	6.79	133.92	121.70
1	A	19	GLY	N-CA-C	-6.79	105.70	115.27
3	J	105	ARG	N-CA-CB	6.79	119.95	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	20	ARG	NE-CZ-NH1	6.79	128.29	121.50
2	j	98	LEU	N-CA-CB	6.79	120.20	110.16
3	J	265	MET	CA-C-N	6.79	130.05	120.28
3	J	265	MET	C-N-CA	6.79	130.05	120.28
2	3	66	LEU	CA-C-N	6.78	129.92	120.29
2	3	66	LEU	C-N-CA	6.78	129.92	120.29
2	7	35	ASN	OD1-CG-ND2	6.78	129.38	122.60
1	c	91	ARG	NE-CZ-NH1	-6.78	114.72	121.50
2	5	41	ALA	N-CA-CB	6.78	121.21	110.57
3	H	82	SER	N-CA-C	-6.78	104.76	113.16
1	F	117	CYS	N-CA-C	6.77	118.66	111.28
1	F	38	ILE	CA-C-N	6.77	126.82	121.61
1	F	38	ILE	C-N-CA	6.77	126.82	121.61
2	3	143	GLY	CA-C-N	6.77	129.35	120.28
2	3	143	GLY	C-N-CA	6.77	129.35	120.28
3	K	216	ILE	N-CA-C	6.77	117.83	108.89
1	C	91	ARG	CA-C-N	6.77	130.03	120.28
1	C	91	ARG	C-N-CA	6.77	130.03	120.28
1	C	178	GLU	CA-C-O	-6.77	111.60	119.05
3	K	210	GLU	CB-CG-CD	-6.77	101.09	112.60
3	M	382	VAL	CA-C-N	6.77	129.35	120.28
3	M	382	VAL	C-N-CA	6.77	129.35	120.28
1	c	150	THR	N-CA-C	-6.77	98.37	109.40
2	k	104	PHE	CA-C-N	6.77	126.73	119.76
2	k	104	PHE	C-N-CA	6.77	126.73	119.76
3	H	35	LYS	N-CA-C	-6.77	103.98	111.36
2	m	208	LEU	N-CA-CB	6.76	120.79	110.44
3	L	112	THR	CA-C-O	-6.76	111.61	119.05
2	k	106	TYR	N-CA-C	-6.76	97.04	108.26
3	L	397	PHE	CA-CB-CG	-6.76	107.04	113.80
2	3	33	MET	N-CA-C	-6.76	106.24	114.75
3	J	137	GLU	N-CA-C	-6.75	105.60	114.31
2	1	58	GLY	CA-C-N	6.75	131.54	120.94
2	1	58	GLY	C-N-CA	6.75	131.54	120.94
2	n	154	ARG	NE-CZ-NH2	6.75	125.28	119.20
1	C	165	GLY	CA-C-N	6.75	129.87	120.29
1	C	165	GLY	C-N-CA	6.75	129.87	120.29
1	d	155	ALA	N-CA-C	-6.75	98.69	109.76
1	d	216	VAL	N-CA-CB	6.75	119.72	110.54
3	H	252	ASN	OD1-CG-ND2	6.75	129.35	122.60
3	J	21	TYR	CA-C-N	6.75	130.56	120.31
3	J	21	TYR	C-N-CA	6.75	130.56	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	h	44	LYS	N-CA-C	-6.74	104.80	113.16
2	l	50	ASP	N-CA-CB	6.74	120.03	110.12
1	E	20	ARG	NE-CZ-NH2	-6.74	113.14	119.20
1	g	223	GLU	N-CA-CB	6.74	122.00	110.68
2	5	111	LEU	N-CA-C	-6.74	97.37	108.76
3	I	371	THR	CA-CB-CG2	-6.73	99.05	110.50
2	m	113	GLY	N-CA-C	-6.73	99.51	110.55
1	g	43	LYS	N-CA-C	-6.73	104.64	112.92
2	i	188	VAL	O-C-N	6.73	130.09	123.03
3	H	199	THR	CA-C-N	6.73	132.32	122.63
3	H	199	THR	C-N-CA	6.73	132.32	122.63
2	l	104	PHE	N-CA-CB	6.73	118.31	110.71
1	C	37	ALA	N-CA-C	-6.72	96.79	108.69
1	d	43	LYS	CB-CA-C	-6.72	100.19	111.02
2	n	196	PHE	N-CA-C	-6.72	94.46	107.44
3	K	353	ALA	CA-C-N	6.72	129.03	120.56
3	K	353	ALA	C-N-CA	6.72	129.03	120.56
3	K	356	THR	N-CA-CB	6.72	120.11	110.16
1	E	169	ASN	CA-CB-CG	-6.72	105.88	112.60
3	L	316	GLY	N-CA-C	6.72	120.80	112.73
1	E	159	TYR	CA-C-N	6.72	133.92	122.36
1	E	159	TYR	C-N-CA	6.72	133.92	122.36
3	L	118	VAL	N-CA-C	-6.72	98.70	108.11
3	J	61	PRO	O-C-N	6.72	129.39	121.46
1	e	200	ILE	CA-C-N	6.72	131.68	122.34
1	e	200	ILE	C-N-CA	6.72	131.68	122.34
2	h	167	LEU	CA-C-N	6.72	129.17	120.44
2	h	167	LEU	C-N-CA	6.72	129.17	120.44
2	5	83	ARG	NE-CZ-NH2	6.72	125.24	119.20
2	n	90	ILE	CA-C-O	-6.72	113.73	120.85
3	I	258	ASP	CA-CB-CG	-6.72	105.88	112.60
3	L	206	VAL	CA-C-N	6.72	132.37	121.62
3	L	206	VAL	C-N-CA	6.72	132.37	121.62
3	H	360	MET	CA-C-N	6.71	129.28	120.28
3	H	360	MET	C-N-CA	6.71	129.28	120.28
3	K	328	MET	CG-SD-CE	-6.71	86.13	100.90
2	4	64	GLN	CA-C-N	6.71	129.57	120.44
2	4	64	GLN	C-N-CA	6.71	129.57	120.44
2	l	140	THR	CA-C-O	6.71	127.83	120.71
3	K	207	VAL	CA-C-O	-6.71	112.83	120.74
1	D	185	PHE	CA-C-O	6.70	127.60	120.70
1	A	11	ALA	N-CA-C	-6.70	98.89	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	37	ALA	O-C-N	6.70	131.04	123.27
1	e	225	SER	CA-C-N	6.70	127.24	119.47
1	e	225	SER	C-N-CA	6.70	127.24	119.47
1	E	87	VAL	N-CA-CB	6.70	119.14	110.57
1	e	124	THR	N-CA-C	-6.70	104.59	112.89
2	4	164	ALA	CA-C-O	-6.70	113.32	120.42
3	K	101	LYS	N-CA-C	-6.70	97.38	108.23
3	I	374	ASP	CA-C-N	6.69	129.14	120.44
3	I	374	ASP	C-N-CA	6.69	129.14	120.44
2	3	169	VAL	CA-C-O	-6.69	113.99	120.95
2	4	103	TYR	N-CA-C	-6.69	104.06	111.36
1	b	143	GLU	N-CA-C	-6.69	104.26	114.16
2	l	18	VAL	N-CA-CB	6.69	118.63	111.00
1	F	124	THR	N-CA-C	-6.69	103.16	112.45
2	j	169	VAL	CB-CA-C	-6.69	103.41	111.97
3	H	230	ALA	CB-CA-C	-6.69	99.69	110.79
2	6	173	TYR	CA-C-N	6.68	129.78	120.29
2	6	173	TYR	C-N-CA	6.68	129.78	120.29
3	L	164	PRO	N-CA-C	-6.68	106.12	114.68
3	L	270	ALA	CA-C-N	6.68	129.90	120.28
3	L	270	ALA	C-N-CA	6.68	129.90	120.28
1	B	18	ASP	CB-CA-C	-6.68	98.94	110.09
2	l	149	GLY	CA-C-O	6.68	128.21	121.00
1	B	241	ARG	NE-CZ-NH1	-6.68	114.82	121.50
2	h	140	THR	N-CA-CB	6.68	121.78	110.49
1	g	174	PHE	CA-C-O	6.67	127.62	120.55
1	B	13	THR	CA-C-O	6.67	126.24	118.90
1	b	69	LYS	N-CA-C	-6.67	99.15	109.76
1	f	55	GLY	N-CA-C	-6.67	104.21	115.62
1	c	151	ASP	CA-CB-CG	6.67	119.27	112.60
2	h	36	PHE	CA-C-N	6.67	130.97	122.37
2	h	36	PHE	C-N-CA	6.67	130.97	122.37
2	5	23	VAL	N-CA-C	-6.67	99.14	108.27
3	L	35	LYS	N-CA-C	-6.67	104.02	111.28
3	J	281	VAL	CA-C-N	6.67	133.70	121.70
3	J	281	VAL	C-N-CA	6.67	133.70	121.70
2	h	95	SER	N-CA-CB	6.66	119.92	110.12
2	j	57	ALA	N-CA-C	-6.66	98.97	109.50
3	I	151	GLU	N-CA-C	6.66	119.37	111.71
2	5	211	PHE	CA-CB-CG	-6.66	107.14	113.80
2	l	49	ALA	CA-C-N	6.66	129.20	120.28
2	l	49	ALA	C-N-CA	6.66	129.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	36	PHE	CA-C-N	6.66	129.58	120.46
3	J	36	PHE	C-N-CA	6.66	129.58	120.46
2	3	71	LYS	CA-C-N	6.66	129.87	120.42
2	3	71	LYS	C-N-CA	6.66	129.87	120.42
3	I	356	THR	CB-CA-C	-6.66	100.43	110.88
1	e	116	ILE	CA-C-N	6.66	129.09	120.44
1	e	116	ILE	C-N-CA	6.66	129.09	120.44
1	e	187	ASP	CA-CB-CG	6.66	119.26	112.60
1	f	112	LEU	CA-C-N	6.66	129.20	120.28
1	f	112	LEU	C-N-CA	6.66	129.20	120.28
2	3	98	LEU	CA-C-N	6.65	129.49	120.44
2	3	98	LEU	C-N-CA	6.65	129.49	120.44
2	7	194	ASP	N-CA-C	-6.65	107.03	114.62
1	A	53	ARG	NE-CZ-NH2	6.65	125.19	119.20
1	A	119	PHE	CA-C-O	6.65	127.60	120.55
1	a	45	GLY	N-CA-C	-6.65	101.45	110.43
3	I	378	ALA	CA-C-N	6.65	129.86	120.42
3	I	378	ALA	C-N-CA	6.65	129.86	120.42
1	F	148	TYR	N-CA-C	-6.65	99.22	109.52
1	G	8	TYR	CA-C-N	6.64	131.98	121.08
1	G	8	TYR	C-N-CA	6.64	131.98	121.08
3	K	169	GLU	N-CA-C	6.64	118.52	111.28
1	c	97	GLN	N-CA-C	6.64	119.35	111.71
3	H	228	GLN	CA-C-N	6.64	129.72	120.29
3	H	228	GLN	C-N-CA	6.64	129.72	120.29
3	K	283	VAL	CA-C-N	6.64	133.65	121.70
3	K	283	VAL	C-N-CA	6.64	133.65	121.70
2	1	87	VAL	CA-C-N	6.64	129.18	120.28
2	1	87	VAL	C-N-CA	6.64	129.18	120.28
3	L	340	ALA	CA-C-O	-6.63	113.52	120.55
1	D	46	VAL	CA-C-O	6.63	128.06	120.76
2	5	192	THR	N-CA-C	-6.63	104.41	113.30
2	1	59	SER	CA-C-N	6.63	128.81	120.72
2	1	59	SER	C-N-CA	6.63	128.81	120.72
3	K	251	THR	O-C-N	-6.63	115.47	123.29
1	g	182	ASP	N-CA-C	-6.63	104.77	112.92
2	j	155	PHE	N-CA-CB	6.62	120.36	110.29
1	C	211	VAL	CA-C-N	6.62	126.71	121.61
1	C	211	VAL	C-N-CA	6.62	126.71	121.61
3	I	38	GLU	CA-C-O	6.62	127.57	120.55
2	2	133	GLU	CA-C-N	6.62	133.45	122.33
2	2	133	GLU	C-N-CA	6.62	133.45	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4	83	ARG	N-CA-C	-6.62	98.19	109.24
1	b	58	LEU	N-CA-C	-6.62	105.36	113.50
3	K	163	LYS	CA-C-N	6.62	126.39	119.05
3	K	163	LYS	C-N-CA	6.62	126.39	119.05
2	3	156	THR	N-CA-C	-6.62	97.58	109.09
3	K	84	GLY	CA-C-N	6.62	126.59	119.78
3	K	84	GLY	C-N-CA	6.62	126.59	119.78
1	f	68	TYR	CA-C-O	-6.61	113.56	120.70
3	H	123	LYS	CA-C-N	6.61	130.72	120.60
3	H	123	LYS	C-N-CA	6.61	130.72	120.60
1	C	74	ILE	CA-CB-CG1	6.61	121.64	110.40
3	I	229	LEU	N-CA-CB	6.61	119.83	110.12
1	E	142	ASP	N-CA-C	-6.61	105.23	113.55
1	f	73	HIS	ND1-CE1-NE2	6.61	115.01	108.40
1	E	234	GLU	CA-C-N	6.60	129.13	120.28
1	E	234	GLU	C-N-CA	6.60	129.13	120.28
1	f	138	ILE	CA-C-O	-6.60	113.39	120.59
3	H	41	ARG	N-CA-CB	6.60	119.78	109.94
1	g	69	LYS	CA-C-N	6.60	129.30	121.84
1	g	69	LYS	C-N-CA	6.60	129.30	121.84
2	2	50	ASP	N-CA-C	6.60	119.32	111.33
1	C	216	VAL	CA-C-O	-6.60	114.09	120.95
1	D	132	PHE	CA-CB-CG	-6.60	107.20	113.80
1	g	150	THR	N-CA-C	-6.60	98.64	109.40
3	J	320	ILE	N-CA-C	6.60	116.75	110.42
1	C	240	ILE	CA-C-N	6.60	129.66	120.29
1	C	240	ILE	C-N-CA	6.60	129.66	120.29
2	n	87	VAL	CA-C-N	6.60	129.78	120.28
2	n	87	VAL	C-N-CA	6.60	129.78	120.28
1	C	162	THR	CA-CB-OG1	6.60	119.49	109.60
1	F	40	ILE	N-CA-C	-6.59	98.12	108.86
2	6	139	ALA	N-CA-C	-6.59	96.77	110.80
2	n	33	MET	CA-C-O	6.59	126.96	119.18
1	B	224	VAL	O-C-N	-6.59	114.95	122.72
2	5	18	VAL	N-CA-CB	6.59	117.71	110.53
1	F	20	ARG	CD-NE-CZ	-6.58	115.18	124.40
1	C	67	ILE	N-CA-C	-6.58	95.65	109.34
3	K	282	LYS	N-CA-CB	6.58	121.69	110.50
3	L	327	LYS	CA-C-N	6.58	130.18	120.90
3	L	327	LYS	C-N-CA	6.58	130.18	120.90
1	f	23	GLN	CA-C-N	6.58	129.47	120.46
1	f	23	GLN	C-N-CA	6.58	129.47	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	100	SER	CA-C-O	6.58	127.47	119.38
1	d	130	ARG	N-CA-C	-6.58	100.99	110.40
2	h	170	ARG	CD-NE-CZ	-6.58	115.19	124.40
3	I	224	ARG	N-CA-CB	6.58	119.90	110.16
3	K	252	ASN	N-CA-C	6.58	120.22	110.48
2	i	78	GLU	O-C-N	6.58	128.84	122.07
2	m	163	GLU	N-CA-C	-6.58	105.39	113.41
3	I	132	VAL	N-CA-C	-6.57	96.20	107.24
1	B	168	ARG	N-CA-C	6.57	118.10	111.07
1	C	44	GLU	N-CA-C	-6.57	104.84	112.92
2	l	161	VAL	CA-C-N	6.57	129.08	120.28
2	l	161	VAL	C-N-CA	6.57	129.08	120.28
1	A	67	ILE	N-CA-C	-6.57	95.68	109.34
3	M	189	THR	N-CA-C	-6.56	104.75	112.89
1	A	36	THR	CA-CB-OG1	6.56	119.44	109.60
1	f	141	VAL	O-C-N	6.56	129.40	123.03
2	h	172	ILE	O-C-N	-6.56	114.39	121.80
2	j	81	ARG	N-CA-C	-6.56	105.43	113.50
2	6	83	ARG	CA-C-N	6.56	129.80	120.49
2	6	83	ARG	C-N-CA	6.56	129.80	120.49
1	e	69	LYS	N-CA-C	-6.55	98.54	108.96
2	m	68	ARG	CB-CA-C	-6.55	99.91	110.79
2	n	189	VAL	N-CA-C	-6.55	98.69	108.12
1	d	174	PHE	CA-CB-CG	6.55	120.35	113.80
2	l	61	GLY	CA-C-N	6.54	129.34	120.44
2	l	61	GLY	C-N-CA	6.54	129.34	120.44
2	h	153	ASP	O-C-N	6.54	129.05	122.12
3	L	291	ASP	CB-CA-C	-6.54	99.51	110.56
2	3	89	ALA	N-CA-C	-6.54	104.08	111.14
2	4	94	THR	CA-C-N	6.54	129.57	120.29
2	4	94	THR	C-N-CA	6.54	129.57	120.29
3	J	73	GLU	N-CA-C	-6.54	104.88	112.92
2	1	165	VAL	N-CA-CB	6.53	120.38	110.58
1	D	144	VAL	O-C-N	-6.53	113.65	121.10
1	a	49	ILE	N-CA-C	6.53	117.25	108.11
1	f	137	LEU	N-CA-CB	6.53	120.97	110.65
3	M	311	LEU	N-CA-C	-6.53	101.28	110.29
3	J	373	LEU	CA-C-N	6.53	129.03	120.28
3	J	373	LEU	C-N-CA	6.53	129.03	120.28
1	A	186	ASP	CA-C-N	6.53	129.56	120.29
1	A	186	ASP	C-N-CA	6.53	129.56	120.29
1	E	30	ALA	N-CA-CB	6.53	119.72	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	45	GLY	N-CA-C	-6.53	101.11	110.38
2	j	30	ARG	NE-CZ-NH1	-6.53	114.97	121.50
2	h	153	ASP	CA-C-N	-6.52	112.33	122.37
2	h	153	ASP	C-N-CA	-6.52	112.33	122.37
3	M	355	CYS	CA-C-O	-6.52	113.92	120.90
3	J	24	ARG	NE-CZ-NH2	6.52	125.07	119.20
1	A	144	VAL	N-CA-C	-6.52	100.63	108.45
2	j	162	ASP	CA-CB-CG	6.52	119.12	112.60
3	L	28	ARG	CD-NE-CZ	-6.52	115.28	124.40
3	J	28	ARG	CA-C-N	6.52	129.01	120.28
3	J	28	ARG	C-N-CA	6.52	129.01	120.28
3	H	60	SER	CA-C-N	6.51	127.09	120.38
3	H	60	SER	C-N-CA	6.51	127.09	120.38
2	6	162	ASP	N-CA-C	6.51	118.04	111.07
2	6	59	SER	CA-C-N	6.51	128.76	120.56
2	6	59	SER	C-N-CA	6.51	128.76	120.56
2	4	102	ARG	CA-C-N	6.50	129.52	120.29
2	4	102	ARG	C-N-CA	6.50	129.52	120.29
3	I	252	ASN	CA-C-N	6.50	133.40	121.70
3	I	252	ASN	C-N-CA	6.50	133.40	121.70
1	E	130	ARG	NE-CZ-NH2	6.50	125.05	119.20
2	1	93	LEU	CA-C-O	-6.50	114.00	120.82
2	4	112	ILE	N-CA-C	-6.50	99.11	108.53
2	l	30	ARG	N-CA-CB	6.50	121.47	110.49
1	A	70	ILE	N-CA-C	-6.49	106.22	111.81
2	6	22	GLY	CA-C-N	6.49	132.01	122.99
2	6	22	GLY	C-N-CA	6.49	132.01	122.99
1	d	240	ILE	CA-C-N	6.49	128.98	120.28
1	d	240	ILE	C-N-CA	6.49	128.98	120.28
1	F	66	LYS	N-CA-C	-6.49	105.90	113.88
3	L	46	ARG	CA-C-N	6.49	128.88	120.44
3	L	46	ARG	C-N-CA	6.49	128.88	120.44
3	L	391	ASP	N-CA-CB	6.49	121.46	110.49
3	M	379	ILE	N-CA-C	-6.49	104.16	110.72
2	k	68	ARG	CA-C-N	6.49	128.87	120.56
2	k	68	ARG	C-N-CA	6.49	128.87	120.56
2	2	193	GLU	N-CA-CB	6.49	121.45	110.49
1	D	38	ILE	CA-C-N	6.49	126.66	122.18
1	D	38	ILE	C-N-CA	6.49	126.66	122.18
3	K	197	ASN	CA-CB-CG	6.49	119.08	112.60
3	M	51	LEU	O-C-N	-6.49	114.76	122.15
1	b	211	VAL	N-CA-C	-6.48	98.71	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2	89	ALA	N-CA-CB	6.48	119.41	110.01
1	C	28	ARG	N-CA-C	-6.48	105.41	113.38
2	j	104	PHE	CA-CB-CG	6.48	120.28	113.80
1	b	174	PHE	CA-CB-CG	-6.48	107.32	113.80
2	h	36	PHE	CA-CB-CG	-6.48	107.32	113.80
2	i	167	LEU	CA-C-N	6.48	128.96	120.28
2	i	167	LEU	C-N-CA	6.48	128.96	120.28
1	g	205	VAL	CA-C-N	6.47	126.60	119.87
1	g	205	VAL	C-N-CA	6.47	126.60	119.87
2	k	104	PHE	CA-CB-CG	-6.47	107.33	113.80
2	2	143	GLY	CA-C-N	6.47	128.95	120.28
2	2	143	GLY	C-N-CA	6.47	128.95	120.28
1	D	177	LYS	N-CA-C	-6.47	102.73	112.04
1	E	234	GLU	CA-C-O	-6.46	114.03	120.82
2	7	28	GLU	O-C-N	-6.46	115.77	123.27
3	J	83	THR	CA-C-N	6.46	132.02	121.87
3	J	83	THR	C-N-CA	6.46	132.02	121.87
1	E	174	PHE	N-CA-C	6.46	117.99	111.07
1	E	114	LYS	CA-C-O	-6.46	114.04	120.82
3	I	242	GLU	CA-C-N	6.46	130.13	120.31
3	I	242	GLU	C-N-CA	6.46	130.13	120.31
2	k	81	ARG	NE-CZ-NH2	-6.46	113.39	119.20
3	K	282	LYS	CA-C-N	6.46	131.20	123.19
3	K	282	LYS	C-N-CA	6.46	131.20	123.19
1	A	174	PHE	O-C-N	-6.46	114.67	122.22
2	3	96	ASN	CA-CB-CG	-6.46	106.14	112.60
3	L	233	LYS	N-CA-CB	6.46	120.69	111.65
1	B	10	ARG	N-CA-CB	-6.45	99.57	110.41
3	J	80	LYS	N-CA-C	-6.45	98.21	108.73
1	F	241	ARG	N-CA-C	6.45	118.31	111.28
3	I	25	GLU	N-CA-CB	6.45	119.71	110.16
1	a	32	LYS	CA-C-N	6.45	129.45	120.29
1	a	32	LYS	C-N-CA	6.45	129.45	120.29
3	I	81	SER	N-CA-CB	6.45	119.46	110.17
3	I	99	GLU	N-CA-C	-6.45	105.45	113.38
1	G	211	VAL	O-C-N	-6.45	116.11	123.07
1	g	56	SER	CA-C-N	6.45	128.92	120.28
1	g	56	SER	C-N-CA	6.45	128.92	120.28
3	H	254	ASP	CA-C-N	6.45	133.30	121.70
3	H	254	ASP	C-N-CA	6.45	133.30	121.70
2	l	198	GLN	N-CA-C	-6.44	96.74	108.02
1	G	70	ILE	N-CA-C	-6.44	106.68	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6	112	ILE	N-CA-C	-6.44	98.23	107.77
3	M	261	VAL	CA-CB-CG1	6.44	121.35	110.40
1	D	33	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	F	96	ALA	CA-C-N	6.44	129.43	120.29
1	F	96	ALA	C-N-CA	6.44	129.43	120.29
1	G	112	LEU	N-CA-C	-6.44	104.34	111.36
1	g	245	LYS	CB-CA-C	-6.44	99.57	110.64
2	i	27	THR	N-CA-C	-6.44	99.29	109.07
1	d	236	ALA	N-CA-C	6.43	118.37	111.36
1	e	173	GLU	N-CA-C	-6.43	104.34	111.36
2	i	64	GLN	CA-C-N	6.43	128.80	120.44
2	i	64	GLN	C-N-CA	6.43	128.80	120.44
2	5	181	ALA	N-CA-C	-6.43	105.25	113.23
2	m	24	VAL	N-CA-C	-6.43	98.94	108.85
3	I	48	VAL	CA-C-O	-6.43	114.03	120.85
1	a	33	ARG	NE-CZ-NH1	-6.43	115.07	121.50
1	a	235	ARG	NE-CZ-NH2	6.43	124.99	119.20
2	j	76	LEU	CA-C-O	6.43	127.37	119.97
3	M	186	THR	N-CA-C	-6.43	105.19	113.16
1	C	196	MET	CA-C-O	-6.43	113.73	120.55
3	J	37	ILE	CA-C-N	6.43	128.89	120.28
3	J	37	ILE	C-N-CA	6.43	128.89	120.28
2	3	134	GLU	CA-C-O	-6.43	113.70	120.58
3	L	297	ILE	N-CA-C	-6.43	106.42	113.43
1	a	185	PHE	CA-CB-CG	-6.43	107.37	113.80
2	2	49	ALA	N-CA-C	-6.43	99.92	108.34
2	4	87	VAL	CA-C-N	6.43	128.89	120.28
2	4	87	VAL	C-N-CA	6.43	128.89	120.28
2	n	196	PHE	N-CA-CB	6.43	122.07	110.95
1	B	239	ARG	NE-CZ-NH1	-6.42	115.08	121.50
3	J	87	PHE	CA-C-O	-6.42	113.59	121.11
1	C	42	CYS	CA-C-N	-6.42	109.91	121.14
1	C	42	CYS	C-N-CA	-6.42	109.91	121.14
2	4	189	VAL	CA-C-O	-6.42	113.70	120.76
3	H	16	LEU	CA-C-N	6.42	128.88	120.28
3	H	16	LEU	C-N-CA	6.42	128.88	120.28
3	M	32	ASP	N-CA-C	6.42	118.28	111.28
1	D	114	LYS	CA-C-O	-6.42	114.09	120.70
1	f	223	GLU	CA-C-O	-6.42	113.77	120.70
1	C	73	HIS	CB-CG-CD2	-6.42	122.86	131.20
2	6	191	ILE	N-CA-C	-6.41	96.73	106.42
1	b	225	SER	N-CA-CB	6.41	119.47	110.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	57	LYS	N-CA-C	-6.41	105.61	113.50
1	E	99	ASN	N-CA-CB	-6.41	100.43	110.30
1	f	91	ARG	NE-CZ-NH1	-6.41	115.09	121.50
3	I	185	GLY	N-CA-C	-6.41	107.45	115.08
1	e	209	ILE	N-CA-C	-6.41	98.38	108.95
3	L	353	ALA	CA-C-N	6.41	129.52	120.42
3	L	353	ALA	C-N-CA	6.41	129.52	120.42
3	M	252	ASN	CA-C-N	6.41	133.23	121.70
3	M	252	ASN	C-N-CA	6.41	133.23	121.70
2	2	21	ASP	CA-C-N	-6.41	114.21	121.83
2	2	21	ASP	C-N-CA	-6.41	114.21	121.83
2	l	132	ILE	CB-CA-C	-6.41	102.34	111.31
1	g	222	LYS	N-CA-C	-6.40	98.94	108.99
2	2	97	LEU	CA-C-N	6.40	128.86	120.28
2	2	97	LEU	C-N-CA	6.40	128.86	120.28
3	H	125	PRO	CA-C-N	6.40	129.69	120.79
3	H	125	PRO	C-N-CA	6.40	129.69	120.79
3	M	271	GLU	N-CA-C	6.40	117.92	111.07
3	M	295	PRO	O-C-N	6.40	130.78	123.10
1	F	31	VAL	N-CA-C	-6.40	104.09	110.62
1	F	151	ASP	CA-CB-CG	-6.40	106.20	112.60
3	M	228	GLN	CB-CG-CD	-6.40	101.72	112.60
3	J	81	SER	CB-CA-C	6.40	120.45	109.51
1	c	204	LEU	CA-C-N	6.40	128.42	122.85
1	c	204	LEU	C-N-CA	6.40	128.42	122.85
2	h	201	PRO	CA-C-N	6.40	128.75	120.44
2	h	201	PRO	C-N-CA	6.40	128.75	120.44
3	M	387	THR	O-C-N	-6.40	113.96	121.32
2	h	149	GLY	CA-C-N	6.39	129.50	120.42
2	h	149	GLY	C-N-CA	6.39	129.50	120.42
2	j	18	VAL	CB-CA-C	-6.39	102.98	110.91
1	d	51	ASP	CA-CB-CG	6.39	118.99	112.60
1	A	169	ASN	CA-CB-CG	6.39	118.99	112.60
1	f	26	TYR	N-CA-C	6.39	118.25	111.28
1	G	73	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	D	114	LYS	O-C-N	6.39	128.99	122.09
2	h	211	PHE	CA-CB-CG	6.39	120.19	113.80
1	e	83	ALA	O-C-N	6.39	128.99	122.09
1	F	156	LEU	O-C-N	-6.39	115.84	123.31
2	j	61	GLY	CA-C-O	-6.39	113.28	120.30
3	I	145	GLY	CA-C-N	6.39	133.20	121.70
3	I	145	GLY	C-N-CA	6.39	133.20	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	100	ARG	NE-CZ-NH1	-6.38	115.12	121.50
1	e	141	VAL	N-CA-CB	6.38	121.43	111.99
2	j	21	ASP	CA-CB-CG	6.38	118.98	112.60
2	n	99	ASN	CA-C-N	6.38	129.47	120.28
2	n	99	ASN	C-N-CA	6.38	129.47	120.28
3	L	43	ARG	CA-C-O	-6.38	113.78	120.55
1	A	228	GLU	CA-C-N	6.38	128.83	120.28
1	A	228	GLU	C-N-CA	6.38	128.83	120.28
2	l	104	PHE	N-CA-CB	6.38	119.33	111.23
2	7	13	THR	O-C-N	-6.38	115.95	123.41
3	I	39	SER	CA-C-N	6.38	130.01	120.31
3	I	39	SER	C-N-CA	6.38	130.01	120.31
1	E	97	GLN	CA-C-N	6.38	130.55	120.47
1	E	97	GLN	C-N-CA	6.38	130.55	120.47
1	G	94	ILE	CA-C-N	6.38	128.73	120.44
1	G	94	ILE	C-N-CA	6.38	128.73	120.44
2	4	61	GLY	N-CA-C	6.38	120.93	112.77
3	L	389	ILE	CA-C-O	-6.38	111.41	119.95
2	j	103	TYR	N-CA-C	-6.37	104.77	112.54
1	b	32	LYS	CA-C-O	6.37	127.17	120.42
1	d	128	GLY	CA-C-N	6.37	131.74	122.69
1	d	128	GLY	C-N-CA	6.37	131.74	122.69
1	e	228	GLU	CA-C-N	6.37	129.99	120.31
1	e	228	GLU	C-N-CA	6.37	129.99	120.31
3	I	334	VAL	CB-CA-C	6.37	121.17	111.68
2	7	107	LEU	N-CA-CB	6.37	120.52	110.84
3	H	159	LEU	O-C-N	-6.37	114.81	120.48
1	D	198	LEU	N-CA-CB	6.37	119.48	110.12
1	d	155	ALA	CA-C-N	6.37	131.51	122.72
1	d	155	ALA	C-N-CA	6.37	131.51	122.72
3	L	211	PHE	O-C-N	6.37	130.53	123.01
3	M	97	GLU	CA-C-N	6.37	128.81	120.28
3	M	97	GLU	C-N-CA	6.37	128.81	120.28
1	D	18	ASP	CB-CA-C	-6.37	98.44	110.67
1	E	187	ASP	CA-CB-CG	-6.37	106.23	112.60
2	h	146	THR	CA-C-N	6.37	128.81	120.28
2	h	146	THR	C-N-CA	6.37	128.81	120.28
2	m	181	ALA	CB-CA-C	-6.37	99.80	110.56
3	H	131	GLU	CA-C-N	6.37	133.16	121.70
3	H	131	GLU	C-N-CA	6.37	133.16	121.70
3	I	330	LEU	N-CA-CB	6.37	119.97	110.29
3	L	300	PRO	CA-C-O	-6.36	114.31	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	146	LYS	CA-C-O	6.36	128.11	120.99
1	c	84	ASP	CA-CB-CG	-6.36	106.24	112.60
2	2	86	THR	CA-CB-OG1	6.36	119.14	109.60
3	H	183	PRO	CA-C-N	6.36	126.33	119.78
3	H	183	PRO	C-N-CA	6.36	126.33	119.78
3	I	260	GLU	CA-C-N	6.36	129.45	120.42
3	I	260	GLU	C-N-CA	6.36	129.45	120.42
3	I	319	GLN	CA-C-N	6.36	130.73	120.55
3	I	319	GLN	C-N-CA	6.36	130.73	120.55
1	A	85	ALA	N-CA-C	6.36	118.21	111.28
1	B	140	GLY	O-C-N	-6.36	117.45	123.81
3	I	299	ARG	CA-C-O	-6.36	113.56	120.17
3	M	59	ARG	CG-CD-NE	-6.36	98.01	112.00
2	l	184	ASP	N-CA-CB	6.36	120.78	110.42
1	a	93	ARG	CA-C-O	6.35	127.28	120.55
1	C	169	ASN	OD1-CG-ND2	6.35	128.95	122.60
2	3	44	LYS	N-CA-C	-6.35	106.11	114.31
1	e	139	ALA	CA-C-O	-6.35	113.84	120.70
1	A	130	ARG	N-CA-C	-6.35	100.39	110.10
1	G	241	ARG	NE-CZ-NH1	-6.35	115.15	121.50
2	k	128	ILE	O-C-N	-6.35	115.98	122.14
3	K	141	GLU	N-CA-C	-6.35	105.17	113.17
2	1	32	THR	CA-C-O	6.35	127.96	120.66
1	C	187	ASP	CA-CB-CG	-6.34	106.26	112.60
3	M	203	PHE	CA-C-O	6.34	127.25	120.46
1	C	114	LYS	CA-C-N	6.34	131.46	120.68
1	C	114	LYS	C-N-CA	6.34	131.46	120.68
1	G	57	LYS	CA-C-N	6.34	129.29	120.29
1	G	57	LYS	C-N-CA	6.34	129.29	120.29
2	l	124	SER	N-CA-C	-6.34	99.38	109.59
3	M	46	ARG	N-CA-C	6.34	118.19	111.28
2	4	100	SER	CA-C-N	6.33	132.99	122.66
2	4	100	SER	C-N-CA	6.33	132.99	122.66
3	K	337	LYS	CA-C-N	6.33	128.77	120.28
3	K	337	LYS	C-N-CA	6.33	128.77	120.28
2	4	152	GLU	CA-C-N	6.33	131.41	120.58
2	4	152	GLU	C-N-CA	6.33	131.41	120.58
2	4	161	VAL	CA-C-N	6.33	128.77	120.28
2	4	161	VAL	C-N-CA	6.33	128.77	120.28
2	k	128	ILE	N-CA-C	-6.33	106.56	112.83
3	L	337	LYS	N-CA-C	6.33	118.99	111.71
3	M	212	VAL	CB-CA-C	6.33	118.49	111.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	124	THR	CA-C-N	6.33	129.28	120.29
1	b	124	THR	C-N-CA	6.33	129.28	120.29
2	k	48	ILE	CA-C-O	6.33	127.48	120.71
1	f	148	TYR	O-C-N	6.33	130.47	123.25
3	M	299	ARG	NE-CZ-NH2	6.33	124.89	119.20
2	i	48	ILE	N-CA-C	-6.33	104.88	111.58
3	I	265	MET	CA-C-N	6.33	129.93	120.31
3	I	265	MET	C-N-CA	6.33	129.93	120.31
2	3	78	GLU	N-CA-C	-6.32	104.30	111.07
1	B	7	GLY	N-CA-C	-6.32	98.20	113.18
1	B	85	ALA	CA-C-N	6.32	128.66	120.44
1	B	85	ALA	C-N-CA	6.32	128.66	120.44
1	e	16	SER	CA-C-N	6.32	125.89	119.19
1	e	16	SER	C-N-CA	6.32	125.89	119.19
3	K	101	LYS	CA-C-N	6.32	126.34	119.89
3	K	101	LYS	C-N-CA	6.32	126.34	119.89
3	M	38	GLU	N-CA-C	6.32	118.25	111.36
2	m	105	PRO	CA-C-O	-6.32	114.47	121.23
3	J	122	SER	N-CA-C	-6.32	97.34	110.80
2	j	58	GLY	N-CA-C	-6.32	105.18	111.56
2	j	87	VAL	CA-C-N	6.32	129.91	120.31
2	j	87	VAL	C-N-CA	6.32	129.91	120.31
3	M	383	LEU	CA-C-N	6.31	128.74	120.28
3	M	383	LEU	C-N-CA	6.31	128.74	120.28
1	c	136	LEU	N-CA-CB	6.31	121.42	111.20
1	G	165	GLY	CA-C-N	6.31	128.74	120.28
1	G	165	GLY	C-N-CA	6.31	128.74	120.28
3	J	123	LYS	N-CA-C	-6.31	105.22	113.17
1	b	171	VAL	CA-C-N	6.31	128.64	120.44
1	b	171	VAL	C-N-CA	6.31	128.64	120.44
3	H	39	SER	CA-C-N	6.31	128.73	120.28
3	H	39	SER	C-N-CA	6.31	128.73	120.28
1	g	178	GLU	CB-CG-CD	-6.31	101.88	112.60
2	6	23	VAL	CB-CA-C	6.31	119.54	110.33
3	I	365	GLU	N-CA-C	-6.31	105.22	113.17
1	f	93	ARG	NE-CZ-NH1	-6.30	115.20	121.50
2	2	126	ASP	CA-C-O	-6.30	112.19	121.27
3	K	375	PHE	N-CA-CB	6.30	119.15	110.01
1	d	141	VAL	N-CA-C	-6.30	99.29	108.11
3	L	288	ASN	CA-CB-CG	-6.30	106.30	112.60
3	L	340	ALA	O-C-N	6.30	128.80	122.12
2	1	198	GLN	OE1-CD-NE2	6.30	128.90	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	142	ASP	N-CA-C	-6.29	101.28	111.04
1	e	196	MET	CB-CA-C	-6.29	100.34	110.79
2	3	60	VAL	N-CA-C	6.29	117.04	110.62
2	l	89	ALA	CA-C-N	6.29	131.11	120.29
2	l	89	ALA	C-N-CA	6.29	131.11	120.29
2	7	22	GLY	N-CA-C	6.29	119.12	110.56
1	a	131	PRO	CA-C-N	6.29	130.25	120.75
1	a	131	PRO	C-N-CA	6.29	130.25	120.75
1	d	15	PHE	CA-CB-CG	6.29	120.09	113.80
3	I	152	GLU	O-C-N	6.29	128.78	122.12
3	H	374	ASP	CA-C-N	6.28	128.70	120.28
3	H	374	ASP	C-N-CA	6.28	128.70	120.28
2	6	161	VAL	CB-CA-C	-6.28	103.55	112.22
1	a	13	THR	CA-C-N	6.28	128.92	120.50
1	a	13	THR	C-N-CA	6.28	128.92	120.50
3	J	79	VAL	O-C-N	-6.28	116.48	123.26
1	D	105	GLU	N-CA-C	-6.28	98.49	109.48
1	f	115	LYS	CB-CA-C	-6.28	99.21	110.70
1	c	198	LEU	CA-C-N	6.28	128.60	120.44
1	c	198	LEU	C-N-CA	6.28	128.60	120.44
2	2	206	GLN	N-CA-C	-6.28	105.45	113.23
1	f	169	ASN	CA-CB-CG	-6.27	106.33	112.60
1	e	46	VAL	CB-CA-C	6.27	119.49	110.33
3	I	245	ALA	CA-C-N	6.27	129.33	120.42
3	I	245	ALA	C-N-CA	6.27	129.33	120.42
3	K	281	VAL	CA-C-O	-6.27	113.87	120.39
1	a	28	ARG	NE-CZ-NH2	-6.27	113.56	119.20
3	M	146	LEU	CA-C-N	6.27	132.99	121.70
3	M	146	LEU	C-N-CA	6.27	132.99	121.70
1	A	135	SER	N-CA-CB	6.27	121.64	110.80
1	E	229	LEU	N-CA-C	-6.27	105.76	113.41
2	5	104	PHE	N-CA-C	-6.27	98.51	109.48
2	6	150	VAL	CB-CA-C	-6.27	103.95	111.97
2	m	31	ALA	N-CA-CB	6.27	120.61	110.77
3	H	186	THR	N-CA-C	-6.27	105.28	113.17
3	I	90	ASN	CA-C-N	6.26	134.62	122.03
3	I	90	ASN	C-N-CA	6.26	134.62	122.03
3	J	242	GLU	N-CA-CB	6.26	121.07	110.49
1	c	118	ASP	N-CA-C	6.26	118.10	111.28
2	h	21	ASP	CA-CB-CG	6.26	118.86	112.60
2	6	106	TYR	N-CA-C	-6.26	104.39	114.09
3	H	372	MET	CA-C-N	6.26	129.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	372	MET	C-N-CA	6.26	129.18	120.29
3	M	354	ILE	CA-C-O	-6.26	114.21	120.85
1	B	124	THR	N-CA-C	-6.26	103.03	112.04
2	l	148	TYR	CB-CG-CD2	-6.26	111.41	120.80
2	l	79	ILE	O-C-N	6.26	128.41	121.90
1	f	206	PRO	N-CA-C	-6.25	105.48	114.18
3	J	321	PHE	N-CA-CB	6.25	119.25	109.94
1	d	142	ASP	N-CA-C	-6.25	104.37	112.68
2	4	43	LYS	N-CA-C	6.25	119.05	110.24
2	k	88	ARG	NE-CZ-NH1	-6.25	115.25	121.50
1	B	173	GLU	CA-C-N	6.25	128.56	120.44
1	B	173	GLU	C-N-CA	6.25	128.56	120.44
2	2	58	GLY	CA-C-N	6.25	130.26	121.02
2	2	58	GLY	C-N-CA	6.25	130.26	121.02
3	H	9	LEU	CA-C-N	6.25	129.16	120.29
3	H	9	LEU	C-N-CA	6.25	129.16	120.29
2	7	132	ILE	CA-C-N	6.25	133.47	121.54
2	7	132	ILE	C-N-CA	6.25	133.47	121.54
1	b	31	VAL	CA-C-O	6.24	127.59	119.85
2	k	53	ALA	N-CA-CB	-6.24	101.51	111.62
2	k	55	THR	N-CA-C	-6.24	99.54	109.59
2	4	115	ILE	N-CA-C	-6.24	99.16	108.46
3	L	41	ARG	O-C-N	-6.24	114.59	122.27
3	J	345	GLY	N-CA-C	-6.24	106.09	115.32
1	f	81	LEU	CA-C-N	6.24	130.53	120.30
1	f	81	LEU	C-N-CA	6.24	130.53	120.30
3	H	88	VAL	N-CA-C	-6.24	98.76	107.80
3	M	164	PRO	CA-C-N	6.24	128.55	120.44
3	M	164	PRO	C-N-CA	6.24	128.55	120.44
3	I	40	GLU	CA-C-N	6.24	128.55	120.44
3	I	40	GLU	C-N-CA	6.24	128.55	120.44
3	H	282	LYS	N-CA-CB	6.23	121.10	110.50
1	g	26	TYR	CA-C-O	-6.23	112.80	119.97
3	L	142	ASP	N-CA-C	-6.23	105.62	113.72
1	D	109	VAL	CA-C-N	6.23	128.54	120.44
1	D	109	VAL	C-N-CA	6.23	128.54	120.44
2	7	38	ALA	N-CA-C	-6.23	103.22	113.50
1	b	214	VAL	N-CA-C	-6.23	96.39	109.34
2	4	177	LYS	CA-C-O	-6.23	112.06	119.35
1	e	157	LEU	CA-C-N	6.22	131.59	123.00
1	e	157	LEU	C-N-CA	6.22	131.59	123.00
1	e	176	GLU	CA-C-N	6.22	133.07	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	176	GLU	C-N-CA	6.22	133.07	122.36
1	F	230	LYS	N-CA-C	6.22	121.34	113.25
1	g	95	GLU	CA-C-N	6.22	129.77	120.31
1	g	95	GLU	C-N-CA	6.22	129.77	120.31
2	i	188	VAL	N-CA-C	-6.22	99.27	108.85
2	5	17	LEU	N-CA-CB	6.22	121.27	110.81
2	m	37	ILE	CA-C-N	6.22	128.90	120.44
2	m	37	ILE	C-N-CA	6.22	128.90	120.44
2	l	84	LYS	CA-C-O	-6.22	114.56	119.66
1	G	142	ASP	N-CA-CB	6.22	119.21	110.07
2	2	119	GLY	O-C-N	-6.22	114.61	122.70
2	3	73	GLU	CA-C-N	6.22	128.61	120.28
2	3	73	GLU	C-N-CA	6.22	128.61	120.28
2	j	154	ARG	CD-NE-CZ	6.22	133.11	124.40
1	E	164	ILE	N-CA-C	-6.22	99.34	108.23
3	H	378	ALA	CB-CA-C	-6.22	100.47	110.79
1	a	211	VAL	CA-C-N	6.22	126.93	121.58
1	a	211	VAL	C-N-CA	6.22	126.93	121.58
1	g	178	GLU	N-CA-CB	6.22	119.08	110.07
2	3	177	LYS	N-CA-C	-6.22	105.68	113.20
2	5	198	GLN	CA-C-N	6.22	128.52	120.44
2	5	198	GLN	C-N-CA	6.22	128.52	120.44
3	H	337	LYS	CA-C-N	6.22	129.76	120.31
3	H	337	LYS	C-N-CA	6.22	129.76	120.31
1	b	47	ILE	O-C-N	-6.21	116.55	123.26
1	F	43	LYS	N-CA-C	-6.21	105.70	113.28
2	i	135	LYS	N-CA-C	-6.21	105.28	112.92
1	d	169	ASN	OD1-CG-ND2	6.21	128.81	122.60
2	3	187	ASP	CA-CB-CG	-6.21	106.39	112.60
1	C	172	THR	CA-C-N	6.21	129.10	120.29
1	C	172	THR	C-N-CA	6.21	129.10	120.29
1	F	99	ASN	CA-CB-CG	-6.21	106.39	112.60
3	K	304	ASP	CA-C-O	6.21	127.34	120.63
1	F	12	ILE	CA-CB-CG1	6.21	120.95	110.40
2	j	137	ILE	CA-C-O	-6.21	114.80	121.19
2	7	43	LYS	N-CA-CB	6.21	119.16	110.04
3	M	261	VAL	CA-C-O	6.21	127.17	120.47
1	g	170	ALA	N-CA-C	6.21	118.04	111.28
1	e	27	ALA	CA-C-O	6.20	127.00	119.31
1	F	92	ALA	CA-C-N	6.20	128.50	120.44
1	F	92	ALA	C-N-CA	6.20	128.50	120.44
2	3	77	TYR	CA-C-O	-6.20	113.84	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	172	THR	CA-C-N	6.20	128.59	120.28
1	c	172	THR	C-N-CA	6.20	128.59	120.28
1	g	84	ASP	O-C-N	6.20	129.90	122.27
1	C	153	SER	O-C-N	6.20	128.48	122.03
1	f	208	ASN	OD1-CG-ND2	-6.20	116.40	122.60
1	g	177	LYS	N-CA-C	-6.20	104.44	112.68
1	b	31	VAL	CA-C-N	6.20	129.09	120.29
1	b	31	VAL	C-N-CA	6.20	129.09	120.29
3	I	384	LYS	N-CA-C	6.20	118.03	111.28
3	L	43	ARG	CA-C-N	6.20	128.58	120.28
3	L	43	ARG	C-N-CA	6.20	128.58	120.28
3	J	173	GLU	CA-C-O	-6.20	114.25	119.76
1	A	91	ARG	NE-CZ-NH1	-6.19	115.31	121.50
1	F	110	LYS	N-CA-C	6.19	118.03	111.28
1	F	168	ARG	NE-CZ-NH2	6.19	124.78	119.20
1	A	11	ALA	O-C-N	6.19	130.31	123.25
1	f	180	ARG	N-CA-CB	6.19	120.76	110.85
2	k	139	ALA	N-CA-C	-6.19	97.33	108.48
3	K	259	ARG	CA-C-N	6.19	129.08	120.29
3	K	259	ARG	C-N-CA	6.19	129.08	120.29
3	L	112	THR	N-CA-C	-6.19	105.67	113.72
1	b	170	ALA	N-CA-CB	6.19	119.22	110.12
2	j	87	VAL	O-C-N	6.19	127.88	121.87
1	a	149	GLU	N-CA-C	-6.19	98.81	108.90
1	E	67	ILE	N-CA-CB	6.19	121.15	111.99
1	g	160	LYS	N-CA-C	-6.19	105.86	113.41
2	5	195	GLU	N-CA-C	-6.19	99.74	108.96
3	K	60	SER	CA-C-O	-6.19	113.96	120.70
2	6	195	GLU	CB-CG-CD	-6.19	102.08	112.60
3	I	304	ASP	N-CA-CB	6.19	120.94	110.49
3	M	268	LEU	N-CA-C	6.19	117.69	111.07
3	J	192	ALA	CA-C-N	6.18	128.57	120.28
3	J	192	ALA	C-N-CA	6.18	128.57	120.28
1	g	84	ASP	CA-C-N	6.18	128.48	120.44
1	g	84	ASP	C-N-CA	6.18	128.48	120.44
2	j	211	PHE	CA-C-N	6.18	131.38	122.35
2	j	211	PHE	C-N-CA	6.18	131.38	122.35
2	4	135	LYS	CA-C-O	-6.18	113.93	120.55
2	4	149	GLY	CA-C-N	6.18	130.90	120.64
2	4	149	GLY	C-N-CA	6.18	130.90	120.64
1	E	120	LYS	CB-CA-C	-6.18	101.18	110.88
1	e	221	PHE	N-CA-C	-6.18	98.66	108.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	h	125	ILE	N-CA-CB	6.18	118.41	110.99
3	J	319	GLN	CA-C-N	6.18	128.35	120.56
3	J	319	GLN	C-N-CA	6.18	128.35	120.56
1	C	148	TYR	N-CA-C	-6.18	100.09	109.85
2	k	46	TYR	N-CA-C	-6.18	98.32	108.76
3	K	94	TYR	N-CA-C	-6.18	104.96	113.18
3	K	388	PRO	CA-C-O	-6.18	114.07	121.48
1	F	185	PHE	O-C-N	6.18	128.67	122.12
3	K	362	ALA	N-CA-CB	6.18	119.20	110.12
3	K	308	GLU	N-CA-CB	6.17	119.52	109.95
1	g	103	TYR	O-C-N	-6.17	115.11	122.27
2	l	86	THR	CB-CA-C	6.17	120.81	109.46
2	m	188	VAL	CA-CB-CG1	6.17	120.89	110.40
2	j	149	GLY	CA-C-N	6.17	128.91	120.46
2	j	149	GLY	C-N-CA	6.17	128.91	120.46
2	k	50	ASP	CA-CB-CG	6.17	118.77	112.60
3	I	272	LEU	N-CA-C	6.17	117.80	111.14
3	K	356	THR	N-CA-C	-6.17	104.64	111.36
3	J	177	GLY	N-CA-C	-6.17	101.68	110.63
1	G	67	ILE	N-CA-CB	6.17	119.69	112.35
2	6	49	ALA	N-CA-C	-6.17	100.23	108.74
2	7	208	LEU	N-CA-CB	6.17	120.14	110.46
3	I	180	LEU	CA-C-O	-6.17	113.95	120.80
2	5	139	ALA	N-CA-C	-6.17	99.93	109.24
1	c	138	ILE	N-CA-C	-6.16	99.54	108.17
3	K	345	GLY	N-CA-C	-6.16	106.12	115.00
2	k	43	LYS	CA-C-N	6.16	130.74	120.70
2	k	43	LYS	C-N-CA	6.16	130.74	120.70
3	I	127	VAL	CA-C-N	6.16	133.31	121.54
3	I	127	VAL	C-N-CA	6.16	133.31	121.54
1	F	117	CYS	CA-C-O	6.16	127.08	120.55
2	2	52	MET	CG-SD-CE	-6.16	87.35	100.90
3	H	23	LEU	CA-C-N	6.16	128.45	120.44
3	H	23	LEU	C-N-CA	6.16	128.45	120.44
1	f	172	THR	CA-C-N	6.16	128.53	120.28
1	f	172	THR	C-N-CA	6.16	128.53	120.28
2	5	54	MET	CA-C-N	6.16	131.67	122.99
2	5	54	MET	C-N-CA	6.16	131.67	122.99
2	5	126	ASP	N-CA-C	-6.16	99.47	109.82
2	5	143	GLY	CA-C-N	6.16	128.53	120.28
2	5	143	GLY	C-N-CA	6.16	128.53	120.28
3	L	232	GLU	CB-CG-CD	-6.16	102.13	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	225	SER	N-CA-CB	6.15	119.74	110.02
1	f	145	PRO	O-C-N	6.15	130.94	122.64
1	G	104	ASP	N-CA-CB	6.15	121.37	112.08
2	h	127	PRO	CA-C-N	6.15	131.86	122.69
2	h	127	PRO	C-N-CA	6.15	131.86	122.69
2	j	63	ALA	CA-C-N	6.15	128.81	120.44
2	j	63	ALA	C-N-CA	6.15	128.81	120.44
2	k	120	LYS	CA-C-O	-6.15	113.58	120.66
2	5	44	LYS	N-CA-C	-6.15	105.05	114.16
1	F	136	LEU	N-CA-C	-6.15	100.40	109.81
3	L	110	GLN	CB-CG-CD	-6.15	102.14	112.60
2	h	57	ALA	N-CA-C	-6.15	99.88	109.72
2	i	91	ALA	CA-C-O	-6.15	114.03	120.55
2	l	38	ALA	CB-CA-C	-6.15	101.23	109.16
3	I	331	ALA	N-CA-CB	6.15	120.88	110.49
3	K	194	ALA	N-CA-C	6.15	117.65	111.07
1	B	105	GLU	CA-C-N	6.15	126.47	119.83
1	B	105	GLU	C-N-CA	6.15	126.47	119.83
1	b	32	LYS	CA-C-N	6.15	129.02	120.29
1	b	32	LYS	C-N-CA	6.15	129.02	120.29
1	B	60	GLU	CA-C-N	6.15	129.35	120.38
1	B	60	GLU	C-N-CA	6.15	129.35	120.38
2	1	35	ASN	CA-CB-CG	-6.15	106.45	112.60
2	4	125	ILE	CA-C-O	6.15	126.84	120.39
2	h	98	LEU	N-CA-C	-6.14	104.69	111.82
1	A	135	SER	N-CA-C	-6.14	98.38	108.76
1	F	28	ARG	NH1-CZ-NH2	6.14	127.29	119.30
1	F	125	GLN	CG-CD-OE1	6.14	133.09	120.80
2	7	101	TYR	N-CA-C	-6.14	105.63	112.57
3	M	210	GLU	N-CA-C	-6.14	105.54	113.16
2	1	172	ILE	CA-C-N	6.14	129.12	120.28
2	1	172	ILE	C-N-CA	6.14	129.12	120.28
1	A	150	THR	CA-C-O	-6.14	114.03	121.28
1	c	50	ALA	CA-C-N	6.14	129.54	120.95
1	c	50	ALA	C-N-CA	6.14	129.54	120.95
1	D	93	ARG	N-CA-CB	6.14	118.97	110.07
2	2	100	SER	N-CA-C	6.14	117.64	111.07
2	k	154	ARG	CB-CA-C	-6.14	100.32	110.14
2	i	92	THR	CA-C-N	6.14	128.79	120.38
2	i	92	THR	C-N-CA	6.14	128.79	120.38
2	i	99	ASN	CA-CB-CG	6.14	118.74	112.60
1	e	71	ASP	N-CA-C	-6.14	99.82	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	35	ALA	CA-C-O	-6.13	114.29	121.16
3	J	264	THR	N-CA-C	-6.13	106.33	113.88
1	b	198	LEU	N-CA-C	6.13	117.96	111.28
1	c	231	PRO	CA-C-N	6.13	129.00	120.29
1	c	231	PRO	C-N-CA	6.13	129.00	120.29
3	M	10	LEU	CB-CA-C	-6.13	100.61	110.79
2	n	118	GLU	N-CA-CB	6.13	120.39	110.40
1	B	119	PHE	CA-CB-CG	-6.13	107.67	113.80
1	e	89	ILE	N-CA-CB	6.13	119.77	110.58
2	3	112	ILE	N-CA-CB	6.13	120.16	111.82
2	j	168	ALA	CA-C-N	6.13	128.28	120.56
2	j	168	ALA	C-N-CA	6.13	128.28	120.56
2	5	74	ALA	N-CA-CB	6.13	118.96	110.07
1	D	23	GLN	CB-CG-CD	-6.13	102.19	112.60
2	2	75	ASN	OD1-CG-ND2	6.12	128.72	122.60
2	j	118	GLU	N-CA-CB	-6.12	101.59	110.47
3	L	371	THR	N-CA-CB	6.12	117.29	111.59
1	A	104	ASP	CA-CB-CG	-6.12	106.48	112.60
1	f	172	THR	N-CA-C	-6.12	104.69	111.36
2	1	63	ALA	CA-C-O	-6.12	114.39	120.82
2	1	123	TYR	CA-C-O	-6.12	114.24	121.16
1	e	106	PRO	N-CA-CB	6.12	109.02	103.33
1	f	53	ARG	N-CA-C	6.12	118.87	110.24
2	5	23	VAL	CA-CB-CG2	-6.12	99.99	110.40
3	M	24	ARG	CA-C-N	6.12	128.48	120.28
3	M	24	ARG	C-N-CA	6.12	128.48	120.28
3	H	276	ASP	N-CA-C	-6.12	100.90	110.14
3	L	22	LYS	N-CA-C	6.12	117.95	111.28
3	L	327	LYS	N-CA-C	-6.12	104.53	111.14
1	b	16	SER	CA-C-N	6.12	125.84	119.05
1	b	16	SER	C-N-CA	6.12	125.84	119.05
2	h	203	GLU	N-CA-CB	6.12	119.21	110.16
3	L	101	LYS	N-CA-C	-6.12	102.63	108.07
3	M	67	VAL	CA-CB-CG2	6.12	120.80	110.40
1	b	227	GLU	N-CA-CB	6.12	119.31	110.20
1	F	97	GLN	CA-C-N	6.12	128.84	120.46
1	F	97	GLN	C-N-CA	6.12	128.84	120.46
1	g	147	LEU	N-CA-C	-6.12	99.75	109.23
2	1	115	ILE	O-C-N	6.12	129.78	123.18
2	2	209	ALA	CA-C-O	6.12	126.72	119.56
3	L	248	ALA	CA-C-N	6.12	129.98	120.75
3	L	248	ALA	C-N-CA	6.12	129.98	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	13	THR	O-C-N	-6.11	115.35	122.87
1	c	100	ARG	NE-CZ-NH1	-6.11	115.39	121.50
2	k	183	GLY	N-CA-C	-6.11	98.69	113.18
2	7	175	ALA	CA-C-N	6.11	128.97	120.29
2	7	175	ALA	C-N-CA	6.11	128.97	120.29
3	J	125	PRO	N-CA-C	6.11	122.67	113.81
2	3	106	TYR	CB-CA-C	-6.11	101.76	111.17
1	a	51	ASP	N-CA-C	-6.11	99.25	108.96
2	h	202	GLU	CB-CA-C	-6.11	101.30	110.88
2	2	74	ALA	N-CA-CB	6.11	119.10	110.12
3	H	137	GLU	CB-CG-CD	6.11	122.98	112.60
3	H	163	LYS	CA-C-N	6.11	125.73	119.56
3	H	163	LYS	C-N-CA	6.11	125.73	119.56
3	L	291	ASP	N-CA-C	-6.11	105.41	112.92
2	2	126	ASP	N-CA-CB	-6.10	101.61	109.55
1	c	236	ALA	CA-C-N	6.10	128.46	120.28
1	c	236	ALA	C-N-CA	6.10	128.46	120.28
1	F	243	LEU	N-CA-C	-6.10	105.80	113.18
2	1	22	GLY	CA-C-N	6.10	131.83	122.25
2	1	22	GLY	C-N-CA	6.10	131.83	122.25
2	k	169	VAL	O-C-N	-6.10	115.95	121.87
2	5	90	ILE	CA-C-N	6.10	128.37	120.44
2	5	90	ILE	C-N-CA	6.10	128.37	120.44
3	L	171	GLY	N-CA-C	-6.10	106.50	115.72
3	H	256	SER	CA-C-N	6.10	127.77	120.14
3	H	256	SER	C-N-CA	6.10	127.77	120.14
1	g	141	VAL	N-CA-CB	6.10	120.11	111.82
1	F	225	SER	CA-C-N	6.10	126.54	119.47
1	F	225	SER	C-N-CA	6.10	126.54	119.47
2	j	99	ASN	OD1-CG-ND2	6.10	128.70	122.60
3	I	193	LYS	CA-C-O	-6.10	113.96	120.42
1	f	142	ASP	CA-CB-CG	6.10	118.70	112.60
1	G	211	VAL	CA-C-O	6.10	127.08	120.43
2	l	62	ASP	N-CA-C	-6.10	104.56	111.14
1	G	125	GLN	CA-C-O	-6.09	113.96	120.42
1	G	240	ILE	CA-C-N	6.09	128.44	120.28
1	G	240	ILE	C-N-CA	6.09	128.44	120.28
1	D	90	ASP	N-CA-CB	6.09	119.17	110.16
1	e	119	PHE	CA-C-O	-6.09	113.96	120.42
1	g	137	LEU	CB-CA-C	-6.09	100.32	110.19
3	H	94	TYR	CB-CG-CD2	6.09	129.94	120.80
1	d	242	GLU	O-C-N	6.09	128.34	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	45	GLU	CA-C-N	6.09	128.44	120.28
3	K	45	GLU	C-N-CA	6.09	128.44	120.28
3	J	44	TYR	CA-C-N	6.09	128.35	120.44
3	J	44	TYR	C-N-CA	6.09	128.35	120.44
1	C	104	ASP	N-CA-CB	6.09	121.16	111.91
1	C	120	LYS	CA-C-N	6.09	128.44	120.28
1	C	120	LYS	C-N-CA	6.09	128.44	120.28
2	k	164	ALA	N-CA-C	-6.09	103.99	112.45
1	g	187	ASP	CA-C-O	6.08	127.21	120.82
2	4	76	LEU	O-C-N	6.08	128.57	122.12
3	K	359	GLY	N-CA-C	-6.08	104.98	112.77
1	e	92	ALA	N-CA-C	6.08	117.91	111.28
2	5	49	ALA	CA-C-N	6.08	128.43	120.28
2	5	49	ALA	C-N-CA	6.08	128.43	120.28
2	n	194	ASP	CA-CB-CG	-6.08	106.52	112.60
3	L	362	ALA	N-CA-C	6.08	117.99	111.36
2	h	75	ASN	CA-CB-CG	-6.08	106.52	112.60
3	K	244	ASP	CA-C-O	6.08	125.34	119.08
1	d	218	ASP	O-C-N	6.08	129.43	122.25
3	K	320	ILE	CA-C-N	6.08	128.34	120.44
3	K	320	ILE	C-N-CA	6.08	128.34	120.44
1	a	73	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
2	3	112	ILE	N-CA-C	-6.08	98.78	107.77
1	d	21	LEU	CB-CA-C	-6.08	97.82	110.40
2	6	15	VAL	CA-C-O	-6.08	115.47	121.67
1	B	178	GLU	CA-C-O	-6.07	112.72	120.31
2	i	177	LYS	N-CA-C	6.07	117.90	111.28
3	H	354	ILE	N-CA-C	6.07	116.25	110.42
1	C	241	ARG	CA-C-N	6.07	128.33	120.44
1	C	241	ARG	C-N-CA	6.07	128.33	120.44
1	d	77	ALA	N-CA-CB	6.07	121.39	110.83
2	i	74	ALA	CA-C-O	6.07	126.86	120.42
3	H	322	LYS	O-C-N	6.07	128.56	122.12
3	I	158	GLU	CA-C-N	6.07	127.68	120.09
3	I	158	GLU	C-N-CA	6.07	127.68	120.09
3	M	189	THR	CA-C-N	6.07	128.91	120.29
3	M	189	THR	C-N-CA	6.07	128.91	120.29
3	M	217	GLY	CA-C-N	6.07	128.91	120.29
3	M	217	GLY	C-N-CA	6.07	128.91	120.29
1	A	67	ILE	N-CA-CB	6.07	121.25	111.23
1	B	28	ARG	CD-NE-CZ	-6.07	115.90	124.40
1	F	11	ALA	N-CA-CB	6.07	120.81	111.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	117	ASN	N-CA-CB	6.07	121.15	111.56
1	B	43	LYS	N-CA-C	-6.07	105.05	112.88
1	d	203	GLU	N-CA-C	-6.07	100.67	110.32
2	1	182	SER	CA-C-O	6.07	128.10	121.06
3	L	147	ASP	CA-CB-CG	-6.07	106.53	112.60
3	J	88	VAL	N-CA-C	-6.07	99.68	108.36
2	i	128	ILE	CB-CA-C	-6.07	103.26	110.84
2	j	205	GLU	CA-C-N	6.07	128.90	120.29
2	j	205	GLU	C-N-CA	6.07	128.90	120.29
3	L	16	LEU	O-C-N	6.07	129.06	122.15
1	E	230	LYS	CA-C-N	6.06	125.28	118.97
1	E	230	LYS	C-N-CA	6.06	125.28	118.97
1	F	137	LEU	N-CA-C	-6.06	98.53	108.41
1	b	144	VAL	N-CA-CB	6.06	119.70	111.21
2	6	190	LYS	N-CA-C	-6.06	98.51	108.76
1	B	105	GLU	CB-CA-C	6.06	117.12	110.15
1	E	136	LEU	N-CA-C	-6.06	99.92	109.50
1	e	117	CYS	CA-C-N	6.06	128.40	120.28
1	e	117	CYS	C-N-CA	6.06	128.40	120.28
3	K	317	ARG	NE-CZ-NH2	6.06	124.65	119.20
2	j	24	VAL	N-CA-C	-6.06	99.63	108.11
3	H	146	LEU	O-C-N	-6.06	114.53	122.59
1	g	200	ILE	O-C-N	6.06	128.73	122.07
2	1	93	LEU	CA-C-N	6.06	128.40	120.28
2	1	93	LEU	C-N-CA	6.06	128.40	120.28
1	G	134	VAL	CB-CA-C	6.05	120.22	111.80
2	n	75	ASN	OD1-CG-ND2	6.05	128.66	122.60
3	I	387	THR	N-CA-CB	6.05	121.15	110.37
3	K	397	PHE	N-CA-CB	6.05	120.01	110.87
1	B	117	CYS	CA-C-O	6.05	126.97	120.55
1	c	99	ASN	CA-C-N	6.05	128.39	120.28
1	c	99	ASN	C-N-CA	6.05	128.39	120.28
1	D	157	LEU	N-CA-C	-6.05	98.22	108.26
2	4	151	LEU	N-CA-C	-6.05	104.76	111.36
3	H	358	ALA	CA-C-N	6.05	127.70	120.14
3	H	358	ALA	C-N-CA	6.05	127.70	120.14
3	L	312	PRO	CA-C-N	6.05	133.10	121.54
3	L	312	PRO	C-N-CA	6.05	133.10	121.54
1	f	107	ILE	CA-C-N	6.05	129.46	120.87
1	f	107	ILE	C-N-CA	6.05	129.46	120.87
2	5	143	GLY	N-CA-C	-6.05	105.24	115.34
3	I	194	ALA	N-CA-C	6.05	117.95	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	46	VAL	O-C-N	-6.04	116.34	123.05
2	1	136	ASP	CA-CB-CG	6.04	118.64	112.60
2	k	84	LYS	CA-C-N	6.04	126.39	119.93
2	k	84	LYS	C-N-CA	6.04	126.39	119.93
2	6	77	TYR	CB-CG-CD1	6.04	129.86	120.80
3	J	180	LEU	N-CA-C	-6.04	99.86	109.59
3	J	230	ALA	CA-C-O	-6.04	113.28	120.10
1	g	223	GLU	N-CA-C	-6.04	99.06	108.90
2	j	70	ILE	N-CA-C	-6.04	104.62	110.72
3	H	87	PHE	N-CA-C	-6.04	100.16	109.52
1	e	185	PHE	CA-C-N	6.04	129.48	120.31
1	e	185	PHE	C-N-CA	6.04	129.48	120.31
1	g	119	PHE	N-CA-CB	6.04	118.99	110.12
2	4	140	THR	N-CA-C	-6.04	97.94	110.80
3	L	120	PRO	N-CA-CB	6.04	108.94	103.33
3	M	281	VAL	N-CA-C	-6.04	98.94	107.75
1	D	70	ILE	CA-C-O	6.03	125.83	120.34
1	A	9	ASP	N-CA-C	-6.03	105.23	114.16
2	2	200	SER	CA-C-N	6.03	125.51	119.24
2	2	200	SER	C-N-CA	6.03	125.51	119.24
1	D	225	SER	CA-C-O	-6.03	114.13	120.70
1	E	63	THR	N-CA-C	-6.03	99.45	109.46
2	m	144	SER	N-CA-C	6.03	117.85	111.28
2	k	140	THR	N-CA-CB	6.03	121.74	111.50
3	I	376	THR	CA-C-O	6.03	127.35	120.90
1	E	163	ALA	N-CA-C	-6.02	99.81	108.60
1	e	135	SER	N-CA-C	-6.02	98.82	109.06
1	f	173	GLU	N-CA-C	6.02	117.84	111.28
1	g	54	VAL	CA-CB-CG2	-6.02	100.16	110.40
1	g	228	GLU	CA-C-N	6.02	128.35	120.28
1	g	228	GLU	C-N-CA	6.02	128.35	120.28
2	6	129	GLY	N-CA-C	-6.02	102.02	110.63
2	n	184	ASP	CA-CB-CG	-6.02	106.58	112.60
3	K	83	THR	CA-C-O	-6.02	112.22	119.27
1	A	181	ASP	CA-C-O	6.02	126.60	119.56
1	B	186	ASP	CA-C-N	6.02	128.84	120.29
1	B	186	ASP	C-N-CA	6.02	128.84	120.29
1	d	121	GLN	OE1-CD-NE2	-6.02	116.58	122.60
2	1	71	LYS	CB-CA-C	-6.02	101.43	110.88
3	L	215	TYR	N-CA-C	-6.02	98.80	108.55
1	b	173	GLU	CA-C-N	6.02	128.26	120.44
1	b	173	GLU	C-N-CA	6.02	128.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	n	33	MET	O-C-N	-6.02	115.10	122.20
2	1	83	ARG	CA-C-N	6.01	128.83	120.65
2	1	83	ARG	C-N-CA	6.01	128.83	120.65
3	K	266	MET	CA-C-N	6.01	128.62	120.44
3	K	266	MET	C-N-CA	6.01	128.62	120.44
3	K	17	GLU	CB-CA-C	-6.01	101.44	110.88
1	f	162	THR	CA-C-O	-6.01	114.85	121.28
1	f	218	ASP	O-C-N	6.01	129.28	122.19
2	4	143	GLY	CA-C-N	6.01	128.94	120.28
2	4	143	GLY	C-N-CA	6.01	128.94	120.28
3	I	298	LEU	CA-C-N	6.01	128.75	120.39
3	I	298	LEU	C-N-CA	6.01	128.75	120.39
1	c	121	GLN	OE1-CD-NE2	6.01	128.61	122.60
1	a	159	TYR	CA-C-O	6.01	128.77	121.68
3	L	395	VAL	N-CA-CB	6.01	121.71	111.50
1	e	91	ARG	NE-CZ-NH2	6.00	124.60	119.20
3	K	382	VAL	N-CA-C	-6.00	105.00	110.82
1	g	100	ARG	CD-NE-CZ	-6.00	115.99	124.40
2	7	109	GLN	O-C-N	-6.00	116.49	123.27
1	e	100	ARG	CD-NE-CZ	-6.00	116.00	124.40
2	5	206	GLN	CA-C-N	6.00	128.24	120.56
2	5	206	GLN	C-N-CA	6.00	128.24	120.56
2	5	207	ILE	N-CA-CB	6.00	118.25	110.57
2	m	62	ASP	CB-CA-C	-6.00	100.65	110.85
1	D	22	PHE	CA-CB-CG	-6.00	107.80	113.80
1	D	26	TYR	N-CA-C	-6.00	106.00	113.38
1	f	175	PHE	CA-CB-CG	6.00	119.80	113.80
2	4	137	ILE	N-CA-C	-6.00	99.41	108.17
1	G	144	VAL	N-CA-C	-6.00	100.47	107.61
2	j	143	GLY	CA-C-N	6.00	128.60	120.38
2	j	143	GLY	C-N-CA	6.00	128.60	120.38
2	k	104	PHE	N-CA-CB	6.00	117.49	110.71
3	J	100	LEU	O-C-N	-6.00	116.20	123.10
2	j	126	ASP	CA-CB-CG	-6.00	106.61	112.60
2	1	41	ALA	N-CA-C	-5.99	103.72	113.19
2	n	183	GLY	O-C-N	-5.99	117.66	122.81
3	I	381	LYS	CA-C-N	5.99	128.11	120.56
3	I	381	LYS	C-N-CA	5.99	128.11	120.56
3	L	173	GLU	O-C-N	-5.99	115.07	121.42
1	b	59	LEU	N-CA-CB	5.99	119.56	110.45
1	e	190	VAL	CA-CB-CG2	-5.99	100.21	110.40
2	n	159	ILE	N-CA-C	-5.99	99.78	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1	35	ASN	N-CA-CB	5.99	120.04	111.65
2	6	193	GLU	N-CA-CB	5.99	120.61	110.49
1	a	113	ALA	CA-C-O	-5.99	114.53	120.82
1	g	202	SER	CA-C-N	5.99	132.98	121.54
1	g	202	SER	C-N-CA	5.99	132.98	121.54
3	I	184	PRO	N-CA-CB	5.99	108.90	103.33
3	K	75	GLY	N-CA-C	-5.99	106.99	115.43
3	L	339	LEU	O-C-N	5.99	128.47	122.12
1	F	186	ASP	CA-CB-CG	-5.99	106.61	112.60
1	B	151	ASP	CA-CB-CG	-5.98	106.62	112.60
2	m	98	LEU	N-CA-CB	5.98	119.02	110.16
2	n	15	VAL	O-C-N	5.98	129.31	123.03
1	D	243	LEU	O-C-N	5.98	130.90	122.41
2	2	29	LYS	N-CA-C	-5.98	99.98	109.07
2	m	84	LYS	N-CA-C	-5.98	101.83	110.08
1	A	162	THR	CA-CB-CG2	5.98	120.66	110.50
1	f	205	VAL	N-CA-C	-5.98	95.97	108.88
1	b	124	THR	CA-C-O	5.98	126.88	120.24
1	G	242	GLU	N-CA-CB	5.98	118.91	110.12
3	I	166	LEU	N-CA-C	-5.98	105.48	112.89
3	I	231	LYS	CA-C-N	5.98	128.78	120.29
3	I	231	LYS	C-N-CA	5.98	128.78	120.29
1	D	168	ARG	CA-C-N	5.98	128.29	120.28
1	D	168	ARG	C-N-CA	5.98	128.29	120.28
3	M	45	GLU	CA-C-O	-5.98	114.22	120.55
1	d	135	SER	N-CA-C	-5.97	100.26	109.52
1	d	186	ASP	CA-C-O	5.97	126.88	120.55
2	h	87	VAL	CA-C-N	5.97	128.56	120.44
2	h	87	VAL	C-N-CA	5.97	128.56	120.44
3	H	224	ARG	NE-CZ-NH1	-5.97	115.53	121.50
2	1	153	ASP	CB-CA-C	-5.97	101.50	110.88
1	d	175	PHE	N-CA-CB	5.97	120.30	110.39
3	I	229	LEU	CB-CA-C	-5.97	100.88	110.79
2	i	70	ILE	CA-C-N	5.97	128.19	120.44
2	i	70	ILE	C-N-CA	5.97	128.19	120.44
3	L	128	TYR	CB-CG-CD2	-5.96	111.85	120.80
3	J	189	THR	CA-C-O	-5.96	114.56	120.70
1	A	22	PHE	CA-C-O	-5.96	114.23	120.55
1	F	82	VAL	O-C-N	5.96	127.97	121.83
3	K	397	PHE	N-CA-C	-5.96	101.10	109.69
1	F	95	GLU	CB-CA-C	-5.96	100.90	110.79
2	2	86	THR	N-CA-C	-5.96	101.70	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	j	212	ARG	N-CA-C	-5.96	103.93	111.92
3	L	59	ARG	NH1-CZ-NH2	5.96	127.05	119.30
2	2	191	ILE	N-CA-CB	5.96	121.06	111.23
1	d	99	ASN	CA-C-N	5.96	128.26	120.28
1	d	99	ASN	C-N-CA	5.96	128.26	120.28
2	m	153	ASP	CA-CB-CG	5.96	118.56	112.60
1	G	224	VAL	CA-C-N	5.96	129.71	120.60
1	G	224	VAL	C-N-CA	5.96	129.71	120.60
1	A	99	ASN	CA-C-N	5.95	128.85	120.28
1	A	99	ASN	C-N-CA	5.95	128.85	120.28
1	C	100	ARG	NE-CZ-NH1	-5.95	115.55	121.50
2	k	151	LEU	CA-C-O	5.95	126.73	120.42
3	I	10	LEU	CA-C-N	5.95	128.18	120.44
3	I	10	LEU	C-N-CA	5.95	128.18	120.44
3	J	324	HIS	CB-CG-ND1	5.95	131.63	122.70
1	E	93	ARG	CB-CA-C	-5.95	101.50	110.90
2	4	196	PHE	CA-CB-CG	-5.95	107.85	113.80
1	F	22	PHE	N-CA-C	5.95	119.80	112.54
1	g	206	PRO	N-CA-CB	5.95	109.00	103.41
2	6	46	TYR	CA-C-O	-5.95	114.15	121.11
3	M	37	ILE	N-CA-C	-5.95	104.71	110.72
2	4	33	MET	N-CA-C	-5.95	98.13	110.80
3	H	15	LYS	N-CA-C	5.95	118.55	111.71
3	M	166	LEU	N-CA-CB	5.95	118.96	110.16
2	3	143	GLY	N-CA-C	-5.95	106.28	115.73
2	6	156	THR	CA-CB-OG1	5.95	118.52	109.60
1	g	46	VAL	N-CA-C	-5.94	99.66	108.45
2	m	160	GLY	CA-C-O	-5.94	114.56	122.23
3	L	267	GLN	CB-CG-CD	-5.94	102.50	112.60
3	J	9	LEU	CA-C-N	5.94	130.74	120.58
3	J	9	LEU	C-N-CA	5.94	130.74	120.58
1	c	189	MET	CB-CA-C	-5.94	101.55	110.88
2	h	72	ILE	CA-CB-CG2	5.94	120.60	110.50
1	g	232	TYR	N-CA-C	-5.94	104.39	111.69
1	b	168	ARG	CB-CA-C	-5.94	101.56	110.88
2	1	161	VAL	N-CA-CB	5.94	119.49	110.58
2	2	118	GLU	N-CA-C	-5.94	105.53	112.89
2	4	163	GLU	CA-C-N	5.94	128.72	120.29
2	4	163	GLU	C-N-CA	5.94	128.72	120.29
3	I	56	GLU	CA-C-N	5.94	128.72	120.29
3	I	56	GLU	C-N-CA	5.94	128.72	120.29
1	a	108	THR	CA-C-N	5.93	128.85	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	108	THR	C-N-CA	5.93	128.85	120.42
1	b	140	GLY	O-C-N	-5.93	118.24	123.76
1	d	34	GLY	N-CA-C	-5.93	103.20	112.58
3	M	25	GLU	N-CA-CB	-5.93	101.40	110.12
1	a	155	ALA	CA-C-O	5.93	127.72	121.19
1	f	179	TYR	N-CA-C	-5.93	98.16	110.80
2	i	198	GLN	CA-C-N	5.93	128.71	120.29
2	i	198	GLN	C-N-CA	5.93	128.71	120.29
1	d	72	GLU	CA-C-O	-5.93	114.59	120.82
1	f	103	TYR	N-CA-C	-5.93	107.86	114.62
1	f	129	VAL	N-CA-C	-5.93	99.33	107.99
2	4	202	GLU	CA-C-N	5.93	129.32	120.31
2	4	202	GLU	C-N-CA	5.93	129.32	120.31
3	H	121	THR	N-CA-C	-5.93	102.54	110.55
1	C	163	ALA	CA-C-N	5.93	130.76	122.23
1	C	163	ALA	C-N-CA	5.93	130.76	122.23
1	C	216	VAL	O-C-N	5.93	127.62	121.87
1	e	191	LEU	O-C-N	-5.93	115.84	122.12
1	g	148	TYR	CA-C-N	5.93	130.90	122.72
1	g	148	TYR	C-N-CA	5.93	130.90	122.72
2	n	170	ARG	NE-CZ-NH1	-5.93	115.57	121.50
3	I	324	HIS	CG-CD2-NE2	5.93	113.13	107.20
3	M	19	ASP	N-CA-C	-5.93	104.82	111.28
1	B	110	LYS	CB-CA-C	-5.92	100.95	110.79
1	b	12	ILE	N-CA-C	-5.92	107.51	113.20
2	h	80	ARG	N-CA-CB	5.92	118.66	110.07
2	3	86	THR	CA-C-N	5.92	128.83	120.42
2	3	86	THR	C-N-CA	5.92	128.83	120.42
1	g	171	VAL	CA-C-N	5.92	128.22	120.28
1	g	171	VAL	C-N-CA	5.92	128.22	120.28
3	L	298	LEU	CA-C-N	5.92	128.61	120.67
3	L	298	LEU	C-N-CA	5.92	128.61	120.67
1	f	129	VAL	O-C-N	-5.92	115.16	122.97
1	D	124	THR	CA-C-N	5.92	130.70	120.58
1	D	124	THR	C-N-CA	5.92	130.70	120.58
1	f	209	ILE	N-CA-C	-5.92	99.19	108.95
1	D	99	ASN	CA-C-N	5.92	128.21	120.28
1	D	99	ASN	C-N-CA	5.92	128.21	120.28
1	F	33	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	F	236	ALA	N-CA-C	5.92	117.81	111.36
1	G	64	ILE	CA-C-O	-5.92	114.24	120.57
1	G	202	SER	N-CA-C	5.92	118.06	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	73	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
2	j	112	ILE	N-CA-C	-5.92	99.22	107.80
2	n	68	ARG	NE-CZ-NH2	-5.92	113.88	119.20
3	I	54	GLU	CA-C-N	5.91	128.82	120.42
3	I	54	GLU	C-N-CA	5.91	128.82	120.42
3	K	242	GLU	CA-C-N	5.91	130.96	122.21
3	K	242	GLU	C-N-CA	5.91	130.96	122.21
3	M	270	ALA	CA-C-O	-5.91	114.61	120.82
1	b	103	TYR	N-CA-CB	5.91	119.04	110.88
1	G	243	LEU	CA-C-O	5.91	126.22	119.18
2	l	24	VAL	CA-CB-CG1	5.91	120.45	110.40
2	n	43	LYS	N-CA-CB	5.91	118.76	109.83
1	B	150	THR	N-CA-C	-5.91	99.55	109.07
1	c	122	GLN	N-CA-CB	5.91	118.75	109.94
2	l	80	ARG	CD-NE-CZ	-5.91	116.12	124.40
2	m	22	GLY	O-C-N	-5.91	117.53	124.15
1	e	216	VAL	CA-C-N	5.91	133.10	121.58
1	e	216	VAL	C-N-CA	5.91	133.10	121.58
2	5	96	ASN	CA-C-N	5.91	128.68	120.29
2	5	96	ASN	C-N-CA	5.91	128.68	120.29
3	H	96	ASN	CA-C-O	-5.91	114.73	121.58
1	a	233	VAL	CB-CA-C	-5.91	104.07	112.22
1	B	104	ASP	N-CA-CB	5.91	121.45	112.47
3	L	282	LYS	N-CA-CB	5.91	120.25	110.63
3	K	227	PHE	CA-CB-CG	-5.90	107.90	113.80
1	E	73	HIS	CA-CB-CG	5.90	119.70	113.80
1	E	144	VAL	CA-C-N	5.90	125.92	119.90
1	E	144	VAL	C-N-CA	5.90	125.92	119.90
2	i	48	ILE	CA-CB-CG1	-5.90	100.36	110.40
2	l	194	ASP	CA-CB-CG	5.90	118.50	112.60
2	6	92	THR	CA-C-N	5.90	128.19	120.28
2	6	92	THR	C-N-CA	5.90	128.19	120.28
2	6	104	PHE	CA-CB-CG	-5.90	107.90	113.80
1	b	213	TYR	N-CA-CB	5.90	120.55	111.46
1	C	32	LYS	N-CA-C	-5.90	106.04	113.18
1	F	130	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	d	222	LYS	N-CA-C	-5.90	99.73	108.99
1	E	84	ASP	CA-C-O	5.90	126.80	120.55
3	M	324	HIS	N-CA-CB	5.90	118.89	110.16
2	h	196	PHE	N-CA-C	-5.90	95.37	107.70
3	K	56	GLU	N-CA-CB	5.90	119.38	110.30
1	d	133	GLY	CA-C-N	5.90	130.23	122.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	133	GLY	C-N-CA	5.90	130.23	122.51
2	7	151	LEU	N-CA-C	5.89	117.79	111.36
3	K	316	GLY	CA-C-N	5.89	128.10	120.44
3	K	316	GLY	C-N-CA	5.89	128.10	120.44
1	b	12	ILE	CB-CA-C	5.89	116.53	110.70
1	f	71	ASP	N-CA-C	-5.89	100.61	108.74
2	j	94	THR	CA-C-O	5.89	126.67	120.42
3	I	90	ASN	OD1-CG-ND2	5.89	128.49	122.60
2	7	189	VAL	N-CA-C	-5.89	99.68	108.46
3	H	16	LEU	CB-CA-C	-5.89	101.59	110.90
3	I	239	PHE	CA-CB-CG	5.89	119.69	113.80
1	B	23	GLN	CA-C-N	5.89	129.96	120.30
1	B	23	GLN	C-N-CA	5.89	129.96	120.30
1	B	68	TYR	CA-CB-CG	-5.89	103.30	113.90
1	d	144	VAL	CA-C-O	-5.89	112.06	119.95
2	j	188	VAL	N-CA-C	-5.89	99.26	108.86
3	K	84	GLY	CA-C-O	-5.89	113.10	121.52
3	L	152	GLU	O-C-N	-5.89	115.44	122.15
3	M	130	PHE	N-CA-C	-5.89	105.93	113.23
2	1	90	ILE	CA-C-N	5.89	130.65	120.58
2	1	90	ILE	C-N-CA	5.89	130.65	120.58
2	4	99	ASN	CA-CB-CG	-5.89	106.71	112.60
2	l	57	ALA	N-CA-C	-5.89	99.41	109.24
2	h	64	GLN	N-CA-C	-5.89	104.94	111.36
2	h	153	ASP	CA-C-O	-5.89	114.31	120.55
1	A	57	LYS	N-CA-C	-5.88	98.27	110.80
1	B	38	ILE	CB-CA-C	5.88	119.56	110.50
2	6	138	VAL	CA-C-N	5.88	132.78	121.54
2	6	138	VAL	C-N-CA	5.88	132.78	121.54
2	k	45	ILE	N-CA-C	-5.88	99.16	107.75
3	H	82	SER	CA-C-N	5.88	128.64	120.29
3	H	82	SER	C-N-CA	5.88	128.64	120.29
1	E	99	ASN	CA-CB-CG	-5.88	106.72	112.60
3	H	164	PRO	N-CA-C	-5.88	106.51	113.86
2	6	68	ARG	NE-CZ-NH1	5.88	127.38	121.50
3	M	182	GLY	O-C-N	5.88	127.65	121.77
3	H	75	GLY	N-CA-C	-5.88	106.96	114.37
2	1	160	GLY	N-CA-C	-5.88	103.39	112.85
2	l	78	GLU	CA-C-N	5.88	128.51	120.46
2	l	78	GLU	C-N-CA	5.88	128.51	120.46
2	l	122	ILE	CB-CG1-CD1	5.88	126.14	113.80
3	I	86	LYS	N-CA-CB	5.88	120.21	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	289	ARG	CD-NE-CZ	-5.88	116.17	124.40
3	J	239	PHE	CA-CB-CG	-5.88	107.92	113.80
1	g	151	ASP	N-CA-C	-5.87	103.26	110.31
2	n	200	SER	CA-C-N	5.87	125.35	119.24
2	n	200	SER	C-N-CA	5.87	125.35	119.24
3	M	357	GLU	CA-C-N	5.87	128.15	120.28
3	M	357	GLU	C-N-CA	5.87	128.15	120.28
2	1	29	LYS	N-CA-C	-5.87	106.09	113.72
2	h	117	SER	N-CA-C	-5.87	105.38	112.54
3	J	297	ILE	CA-C-N	5.87	128.15	120.28
3	J	297	ILE	C-N-CA	5.87	128.15	120.28
1	g	26	TYR	N-CA-C	-5.87	105.01	111.82
2	l	76	LEU	CA-C-N	5.87	128.15	120.28
2	l	76	LEU	C-N-CA	5.87	128.15	120.28
3	K	52	ARG	CD-NE-CZ	-5.87	116.18	124.40
3	J	101	LYS	N-CA-CB	5.87	117.26	111.10
2	i	111	LEU	N-CA-C	-5.87	98.84	108.41
1	E	120	LYS	N-CA-CB	5.87	118.52	110.01
1	g	28	ARG	N-CA-C	-5.87	104.84	112.23
3	I	114	ALA	CB-CA-C	-5.87	99.85	109.53
3	K	377	LYS	CB-CG-CD	5.87	124.79	111.30
2	h	177	LYS	CA-C-N	5.87	128.61	120.63
2	h	177	LYS	C-N-CA	5.87	128.61	120.63
2	j	100	SER	N-CA-C	5.86	117.75	111.36
2	k	32	THR	N-CA-C	-5.86	99.45	109.24
1	A	73	HIS	CA-CB-CG	5.86	119.66	113.80
2	1	103	TYR	N-CA-CB	5.86	119.14	110.53
2	h	138	VAL	CB-CA-C	5.86	121.03	110.48
2	j	74	ALA	CA-C-N	5.86	128.13	120.28
2	j	74	ALA	C-N-CA	5.86	128.13	120.28
2	k	126	ASP	CA-C-O	-5.86	114.57	120.96
1	b	33	ARG	NE-CZ-NH1	-5.86	115.64	121.50
1	d	140	GLY	O-C-N	-5.86	116.98	123.66
1	F	245	LYS	N-CA-C	-5.85	104.30	113.02
2	5	124	SER	N-CA-C	-5.85	99.36	108.90
1	b	95	GLU	N-CA-CB	5.85	118.82	110.16
1	c	93	ARG	NE-CZ-NH2	-5.85	113.93	119.20
1	d	79	SER	N-CA-CB	5.85	120.42	110.71
1	E	230	LYS	O-C-N	-5.85	115.07	120.51
1	F	176	GLU	N-CA-CB	5.85	118.72	110.12
2	4	84	LYS	N-CA-CB	5.85	117.94	110.04
3	M	292	ILE	N-CA-C	-5.85	106.07	112.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	213	TYR	N-CA-CB	5.85	121.43	111.66
2	2	147	ALA	CA-C-N	5.85	128.12	120.28
2	2	147	ALA	C-N-CA	5.85	128.12	120.28
2	l	156	THR	N-CA-C	-5.85	96.88	109.81
3	H	192	ALA	N-CA-CB	5.85	118.72	110.12
3	L	316	GLY	O-C-N	5.85	127.81	122.19
3	I	32	ASP	N-CA-CB	5.85	118.72	110.12
3	J	199	THR	N-CA-C	-5.85	105.99	114.12
1	b	228	GLU	N-CA-C	-5.84	106.11	113.18
1	c	21	LEU	N-CA-CB	5.84	118.63	110.04
1	e	151	ASP	CA-C-O	-5.84	114.38	120.87
1	d	106	PRO	CB-CA-C	-5.84	103.44	111.21
2	1	150	VAL	N-CA-CB	5.84	118.48	110.54
2	j	102	ARG	N-CA-C	-5.84	106.39	112.93
1	d	114	LYS	N-CA-CB	5.84	118.48	110.01
1	a	151	ASP	CA-C-N	5.84	125.38	119.19
1	a	151	ASP	C-N-CA	5.84	125.38	119.19
2	3	93	LEU	N-CA-C	-5.84	104.92	111.28
3	M	131	GLU	N-CA-C	-5.84	101.09	110.14
2	n	31	ALA	N-CA-CB	5.83	120.89	110.80
3	M	82	SER	N-CA-C	5.83	118.42	111.71
1	G	150	THR	N-CA-C	-5.83	99.68	109.07
3	H	352	LYS	N-CA-C	-5.83	104.92	111.28
1	F	132	PHE	CA-CB-CG	-5.83	107.97	113.80
3	J	334	VAL	CA-CB-CG2	-5.83	100.49	110.40
1	F	81	LEU	N-CA-C	-5.83	102.28	110.50
1	F	222	LYS	N-CA-C	-5.83	100.46	109.14
2	k	81	ARG	CD-NE-CZ	-5.83	116.24	124.40
2	7	48	ILE	N-CA-C	-5.83	104.13	112.35
1	b	19	GLY	N-CA-C	-5.83	107.14	115.64
1	C	141	VAL	CA-CB-CG1	-5.83	100.50	110.40
1	f	241	ARG	CA-C-N	5.83	128.09	120.28
1	f	241	ARG	C-N-CA	5.83	128.09	120.28
3	I	105	ARG	NE-CZ-NH2	5.83	124.44	119.20
1	g	93	ARG	CB-CA-C	-5.82	100.95	110.85
1	e	159	TYR	CA-CB-CG	-5.82	103.42	113.90
2	4	65	PHE	O-C-N	-5.82	115.80	122.09
1	A	230	LYS	CA-C-O	-5.82	112.19	120.16
1	e	188	ALA	CB-CA-C	-5.82	100.95	110.85
1	G	134	VAL	O-C-N	5.82	128.03	122.97
2	l	128	ILE	CB-CA-C	-5.82	104.55	111.65
3	I	163	LYS	CA-C-N	5.82	125.36	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	163	LYS	C-N-CA	5.82	125.36	119.19
1	D	188	ALA	O-C-N	-5.82	115.52	122.15
2	h	196	PHE	CB-CA-C	-5.82	102.21	111.17
3	L	101	LYS	CA-C-O	-5.82	115.27	120.56
3	M	105	ARG	NH1-CZ-NH2	-5.82	111.73	119.30
3	J	395	VAL	CA-C-N	5.82	128.35	120.38
3	J	395	VAL	C-N-CA	5.82	128.35	120.38
1	D	37	ALA	O-C-N	-5.82	116.50	123.31
1	d	186	ASP	O-C-N	-5.82	115.95	122.12
3	L	159	LEU	CA-C-O	-5.82	112.19	120.16
3	M	153	ILE	N-CA-C	-5.82	104.84	110.72
1	A	18	ASP	CA-CB-CG	-5.82	106.78	112.60
1	A	201	GLU	CB-CA-C	-5.82	103.63	111.89
1	G	78	THR	N-CA-C	-5.82	100.47	109.14
2	6	50	ASP	CA-C-N	5.82	131.67	122.60
2	6	50	ASP	C-N-CA	5.82	131.67	122.60
2	6	57	ALA	N-CA-C	-5.82	98.93	108.41
3	I	174	PRO	CA-C-N	5.82	127.11	119.84
3	I	174	PRO	C-N-CA	5.82	127.11	119.84
3	I	377	LYS	CA-C-O	-5.82	114.39	120.55
3	K	103	GLY	CA-C-O	5.82	125.47	119.02
3	L	169	GLU	N-CA-C	5.82	117.70	111.36
3	M	202	THR	N-CA-CB	5.82	120.32	110.49
2	i	132	ILE	N-CA-C	-5.81	100.03	108.17
2	5	68	ARG	CA-CB-CG	-5.81	102.48	114.10
1	f	51	ASP	N-CA-C	-5.81	100.52	109.76
2	2	30	ARG	N-CA-CB	5.81	120.31	110.49
1	c	209	ILE	N-CA-C	-5.81	99.39	108.86
1	E	147	LEU	N-CA-C	-5.81	98.02	108.48
1	E	191	LEU	CA-C-N	5.81	127.66	120.34
1	E	191	LEU	C-N-CA	5.81	127.66	120.34
2	j	55	THR	N-CA-C	-5.81	100.43	109.72
2	j	81	ARG	CD-NE-CZ	-5.81	116.27	124.40
2	4	128	ILE	CA-CB-CG1	5.81	120.28	110.40
3	L	257	GLY	CA-C-N	5.81	128.54	120.29
3	L	257	GLY	C-N-CA	5.81	128.54	120.29
2	k	80	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	F	162	THR	CA-CB-OG1	5.80	118.31	109.60
2	n	14	THR	N-CA-C	-5.80	100.48	109.24
3	J	142	ASP	CA-C-N	5.80	130.11	122.51
3	J	142	ASP	C-N-CA	5.80	130.11	122.51
1	B	125	GLN	N-CA-CB	5.80	118.42	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1	66	LEU	CA-C-N	5.80	128.05	120.28
2	1	66	LEU	C-N-CA	5.80	128.05	120.28
2	1	155	PHE	N-CA-CB	5.80	118.68	109.51
2	i	45	ILE	N-CA-C	-5.80	99.99	108.11
1	C	144	VAL	N-CA-C	-5.80	104.43	109.19
3	M	236	SER	O-C-N	-5.80	117.49	123.29
1	D	28	ARG	NE-CZ-NH1	-5.80	115.70	121.50
2	m	55	THR	N-CA-CB	5.80	121.92	111.37
1	A	22	PHE	O-C-N	5.79	128.26	122.12
1	f	173	GLU	CA-C-N	5.79	128.04	120.28
1	f	173	GLU	C-N-CA	5.79	128.04	120.28
2	3	209	ALA	O-C-N	-5.79	114.92	122.39
2	m	187	ASP	N-CA-C	-5.79	100.45	109.72
2	n	178	ARG	CD-NE-CZ	-5.79	116.29	124.40
1	B	17	PRO	CB-CA-C	-5.79	103.63	111.85
3	J	318	ILE	CA-C-N	5.79	128.04	120.28
3	J	318	ILE	C-N-CA	5.79	128.04	120.28
1	f	176	GLU	N-CA-C	-5.79	104.89	111.14
2	3	75	ASN	CA-C-O	-5.79	114.28	120.42
2	4	78	GLU	CA-C-N	5.79	127.85	120.56
2	4	78	GLU	C-N-CA	5.79	127.85	120.56
3	H	293	LEU	N-CA-C	-5.79	100.61	109.41
1	d	207	GLU	N-CA-C	-5.79	105.41	112.88
1	f	200	ILE	CA-C-N	5.79	130.35	122.19
1	f	200	ILE	C-N-CA	5.79	130.35	122.19
3	H	47	GLU	CA-C-N	5.79	127.85	120.56
3	H	47	GLU	C-N-CA	5.79	127.85	120.56
1	E	138	ILE	N-CA-C	-5.79	100.09	108.36
1	g	200	ILE	CA-C-O	-5.79	112.19	119.48
2	6	21	ASP	CA-CB-CG	5.79	118.39	112.60
2	7	90	ILE	CA-C-N	5.79	128.31	120.44
2	7	90	ILE	C-N-CA	5.79	128.31	120.44
3	H	213	GLN	N-CA-C	-5.79	100.76	108.34
3	K	105	ARG	CA-C-O	5.79	127.57	120.92
1	a	27	ALA	CB-CA-C	-5.78	99.56	110.67
1	D	228	GLU	CA-C-N	5.78	128.31	120.44
1	D	228	GLU	C-N-CA	5.78	128.31	120.44
1	G	60	GLU	CA-C-N	5.78	127.96	120.44
1	G	60	GLU	C-N-CA	5.78	127.96	120.44
2	3	92	THR	CA-C-O	5.78	126.62	119.97
2	k	99	ASN	O-C-N	-5.78	115.56	122.15
2	m	58	GLY	CA-C-N	5.78	129.08	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	m	58	GLY	C-N-CA	5.78	129.08	120.87
1	c	33	ARG	NE-CZ-NH1	-5.78	115.72	121.50
2	2	138	VAL	O-C-N	5.78	129.36	123.00
3	H	29	ARG	CD-NE-CZ	-5.78	116.31	124.40
3	I	24	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	a	138	ILE	CA-C-O	5.78	127.44	120.74
1	c	200	ILE	N-CA-C	-5.78	106.11	113.22
1	E	54	VAL	CB-CA-C	5.78	119.40	110.50
2	7	68	ARG	CA-C-N	5.78	127.84	120.56
2	7	68	ARG	C-N-CA	5.78	127.84	120.56
2	7	102	ARG	CA-C-O	5.78	126.06	119.18
3	L	47	GLU	CB-CG-CD	-5.78	102.78	112.60
1	E	132	PHE	N-CA-CB	5.78	118.53	110.04
1	E	148	TYR	CA-C-O	-5.78	114.36	121.06
1	b	55	GLY	O-C-N	-5.78	116.08	122.61
1	c	84	ASP	CA-C-N	5.78	127.95	120.44
1	c	84	ASP	C-N-CA	5.78	127.95	120.44
1	E	36	THR	CA-CB-OG1	5.78	118.26	109.60
1	E	155	ALA	N-CA-C	-5.78	100.29	109.59
1	G	211	VAL	CA-C-N	5.78	126.67	121.82
1	G	211	VAL	C-N-CA	5.78	126.67	121.82
3	M	151	GLU	N-CA-C	5.78	117.58	111.28
2	4	198	GLN	CA-C-O	5.77	126.36	120.24
1	A	152	PRO	CA-C-O	5.77	127.08	119.00
1	C	92	ALA	CA-C-N	5.77	128.49	120.29
1	C	92	ALA	C-N-CA	5.77	128.49	120.29
1	c	169	ASN	OD1-CG-ND2	5.77	128.37	122.60
1	d	79	SER	CB-CA-C	-5.77	99.99	109.80
1	f	105	GLU	CA-C-O	-5.77	114.32	119.86
2	k	205	GLU	CA-CB-CG	5.77	125.64	114.10
3	J	255	THR	N-CA-C	-5.77	100.77	108.74
3	M	335	ASP	CA-C-N	5.77	129.08	120.31
3	M	335	ASP	C-N-CA	5.77	129.08	120.31
1	C	191	LEU	N-CA-C	5.77	117.57	111.28
1	d	90	ASP	CA-C-N	5.77	127.94	120.44
1	d	90	ASP	C-N-CA	5.77	127.94	120.44
2	2	206	GLN	O-C-N	5.77	130.37	122.46
2	3	94	THR	CA-CB-OG1	5.77	118.25	109.60
2	l	197	TYR	CA-C-O	-5.77	114.59	120.71
3	H	189	THR	CA-C-O	5.77	126.35	119.60
1	a	200	ILE	N-CA-C	-5.77	107.12	112.83
2	4	35	ASN	N-CA-CB	5.77	120.23	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	134	GLU	O-C-N	5.77	130.08	122.47
3	K	237	ILE	N-CA-C	-5.77	100.10	108.17
1	A	172	THR	O-C-N	5.76	128.31	122.09
1	C	38	ILE	CA-C-N	5.76	126.54	122.33
1	C	38	ILE	C-N-CA	5.76	126.54	122.33
1	C	45	GLY	CA-C-O	-5.76	116.93	120.91
1	D	177	LYS	CB-CA-C	-5.76	100.01	110.56
1	f	232	TYR	O-C-N	5.76	128.72	122.15
2	i	72	ILE	CA-C-O	5.76	126.96	120.85
3	L	98	GLU	O-C-N	5.76	129.00	122.20
3	M	218	GLU	CA-C-O	-5.76	114.31	120.42
1	f	109	VAL	N-CA-CB	5.76	118.38	110.54
2	5	169	VAL	CA-C-N	5.76	128.57	120.28
2	5	169	VAL	C-N-CA	5.76	128.57	120.28
3	H	100	LEU	CA-C-O	5.76	126.62	120.46
3	H	207	VAL	CA-C-O	5.76	127.39	121.28
3	H	224	ARG	CA-C-N	5.76	128.00	120.28
3	H	224	ARG	C-N-CA	5.76	128.00	120.28
1	A	5	GLN	CB-CG-CD	5.76	122.39	112.60
1	a	130	ARG	CA-C-O	-5.76	113.26	120.23
1	F	175	PHE	N-CA-C	-5.76	106.25	113.28
2	k	210	LYS	N-CA-C	-5.76	105.00	111.28
2	5	166	GLU	O-C-N	5.76	128.31	122.09
2	l	120	LYS	N-CA-C	-5.76	100.59	109.52
2	6	154	ARG	NE-CZ-NH1	-5.76	115.74	121.50
2	m	172	ILE	CA-C-N	5.76	129.06	120.31
2	m	172	ILE	C-N-CA	5.76	129.06	120.31
3	I	308	GLU	CA-C-N	-5.76	117.03	123.02
3	I	308	GLU	C-N-CA	-5.76	117.03	123.02
3	M	118	VAL	CA-C-O	-5.76	113.50	121.51
1	C	21	LEU	CA-C-O	5.76	127.05	120.54
2	2	25	MET	CG-SD-CE	-5.76	88.23	100.90
1	D	100	ARG	CA-C-N	5.76	128.46	120.29
1	D	100	ARG	C-N-CA	5.76	128.46	120.29
2	5	186	ILE	N-CA-C	-5.76	99.94	107.88
3	I	55	VAL	N-CA-C	-5.76	104.91	110.72
3	J	358	ALA	CA-C-N	5.76	127.33	120.14
3	J	358	ALA	C-N-CA	5.76	127.33	120.14
3	K	301	GLY	N-CA-C	-5.75	107.38	115.32
2	2	50	ASP	O-C-N	5.75	128.22	122.12
2	6	12	THR	N-CA-C	-5.75	94.89	111.00
3	L	221	ARG	CD-NE-CZ	-5.75	116.35	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	198	GLN	N-CA-C	-5.75	106.61	113.97
1	E	115	LYS	CA-C-N	5.75	127.92	120.56
1	E	115	LYS	C-N-CA	5.75	127.92	120.56
2	j	150	VAL	CB-CA-C	-5.75	104.38	112.14
3	M	35	LYS	N-CA-C	-5.75	105.01	111.28
1	b	36	THR	CA-C-N	5.75	131.59	122.62
1	b	36	THR	C-N-CA	5.75	131.59	122.62
1	d	132	PHE	CA-CB-CG	-5.75	108.05	113.80
1	E	152	PRO	O-C-N	5.75	130.40	122.35
1	F	120	LYS	CA-C-N	5.75	129.05	120.31
1	F	120	LYS	C-N-CA	5.75	129.05	120.31
2	2	66	LEU	CA-C-O	5.75	126.58	119.97
2	j	178	ARG	CA-C-N	5.75	131.61	122.59
2	j	178	ARG	C-N-CA	5.75	131.61	122.59
3	M	44	TYR	CA-C-N	5.75	127.98	120.28
3	M	44	TYR	C-N-CA	5.75	127.98	120.28
3	J	19	ASP	N-CA-CB	5.75	118.67	110.16
1	A	90	ASP	N-CA-C	-5.75	104.94	111.14
1	E	217	ASP	N-CA-C	-5.75	106.23	113.18
1	A	172	THR	CA-C-O	-5.75	114.78	120.70
1	A	35	ALA	CA-C-N	5.74	132.51	121.54
1	A	35	ALA	C-N-CA	5.74	132.51	121.54
1	E	196	MET	N-CA-C	5.74	117.54	111.28
3	L	256	SER	CA-C-N	5.74	127.32	120.14
3	L	256	SER	C-N-CA	5.74	127.32	120.14
3	M	143	ILE	O-C-N	-5.74	117.28	123.14
3	J	22	LYS	N-CA-CB	5.74	119.18	110.28
1	c	95	GLU	N-CA-C	5.74	118.31	111.71
1	G	38	ILE	CA-CB-CG1	5.74	120.16	110.40
2	4	46	TYR	N-CA-CB	5.74	120.13	110.77
3	H	342	ILE	N-CA-C	-5.74	104.76	110.62
3	L	322	LYS	CA-C-O	-5.74	113.61	120.10
1	G	52	LYS	CA-C-O	5.74	124.79	118.65
1	G	130	ARG	CA-C-O	-5.74	114.72	120.63
3	H	90	ASN	CA-C-N	5.74	129.42	120.75
3	H	90	ASN	C-N-CA	5.74	129.42	120.75
3	I	198	GLN	N-CA-CB	5.74	118.75	110.20
3	L	365	GLU	O-C-N	5.74	129.79	122.39
2	h	140	THR	CA-CB-CG2	-5.74	100.75	110.50
3	K	299	ARG	N-CA-C	5.74	118.33	110.01
3	M	200	ARG	CA-C-O	5.74	128.36	121.65
3	M	306	ILE	N-CA-C	-5.74	99.38	107.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	152	PRO	N-CA-C	-5.73	107.18	114.35
3	I	133	GLU	N-CA-C	-5.73	98.95	108.75
2	4	196	PHE	N-CA-C	-5.73	94.35	107.48
2	l	206	GLN	N-CA-CB	5.73	119.46	110.46
2	m	64	GLN	N-CA-CB	5.73	118.64	110.16
1	b	151	ASP	CA-C-N	5.73	126.81	120.45
1	b	151	ASP	C-N-CA	5.73	126.81	120.45
1	e	90	ASP	O-C-N	5.73	128.19	122.12
1	F	69	LYS	CA-C-O	-5.73	114.74	121.16
1	f	89	ILE	CA-CB-CG1	5.73	120.14	110.40
3	K	352	LYS	N-CA-C	-5.73	105.03	111.28
3	L	273	ASP	CA-C-N	5.73	127.30	120.14
3	L	273	ASP	C-N-CA	5.73	127.30	120.14
2	4	165	VAL	CA-CB-CG2	5.73	120.14	110.40
3	L	79	VAL	N-CA-C	-5.73	99.87	108.12
1	d	209	ILE	N-CA-CB	5.73	122.63	111.92
2	2	132	ILE	N-CA-CB	5.73	121.71	111.63
2	k	43	LYS	CA-C-O	5.73	128.04	121.28
2	m	160	GLY	N-CA-C	-5.73	104.91	112.81
3	K	205	ARG	CA-C-O	-5.73	114.02	120.32
3	M	200	ARG	O-C-N	-5.73	115.71	122.58
1	F	93	ARG	CA-C-N	5.72	127.77	120.56
1	F	93	ARG	C-N-CA	5.72	127.77	120.56
3	L	376	THR	O-C-N	-5.72	116.05	122.12
3	L	394	GLY	O-C-N	-5.72	118.25	122.71
3	M	143	ILE	N-CA-C	-5.72	100.23	108.53
1	B	217	ASP	CA-C-O	-5.72	113.63	120.10
1	D	91	ARG	O-C-N	-5.72	116.05	122.12
2	7	69	ILE	O-C-N	5.72	127.52	121.91
1	F	167	GLY	CA-C-N	5.72	128.26	120.54
1	F	167	GLY	C-N-CA	5.72	128.26	120.54
1	g	151	ASP	CA-CB-CG	-5.72	106.88	112.60
2	l	42	ALA	N-CA-C	-5.72	103.15	110.53
3	K	124	ASP	CA-C-N	5.72	126.99	119.84
3	K	124	ASP	C-N-CA	5.72	126.99	119.84
3	M	96	ASN	CA-CB-CG	-5.72	106.88	112.60
1	c	86	ARG	N-CA-C	5.72	117.51	111.28
2	j	25	MET	N-CA-C	-5.72	100.61	109.24
3	K	170	VAL	O-C-N	-5.72	116.48	122.20
3	K	174	PRO	CA-C-O	-5.72	112.27	120.56
3	K	264	THR	CA-C-N	5.72	128.22	120.44
3	K	264	THR	C-N-CA	5.72	128.22	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	137	GLU	CA-C-N	5.72	128.30	120.35
3	M	137	GLU	C-N-CA	5.72	128.30	120.35
1	d	16	SER	CA-C-N	5.71	126.66	120.83
1	d	16	SER	C-N-CA	5.71	126.66	120.83
1	G	30	ALA	O-C-N	5.71	128.18	122.12
1	G	70	ILE	O-C-N	5.71	128.01	122.07
1	g	192	GLY	O-C-N	5.71	127.67	122.19
3	H	191	LEU	CA-C-N	5.71	127.94	120.28
3	H	191	LEU	C-N-CA	5.71	127.94	120.28
3	J	332	GLU	N-CA-C	-5.71	106.20	112.72
1	a	17	PRO	CA-C-N	5.71	128.40	120.29
1	a	17	PRO	C-N-CA	5.71	128.40	120.29
1	E	221	PHE	CA-CB-CG	-5.71	108.09	113.80
1	e	181	ASP	N-CA-C	-5.71	104.98	112.41
2	2	99	ASN	N-CA-C	5.71	117.50	111.28
2	m	39	SER	O-C-N	5.71	129.78	123.33
1	C	98	ILE	CA-CB-CG2	5.71	120.21	110.50
1	C	127	GLY	N-CA-C	-5.71	105.86	115.62
1	e	25	GLU	CA-C-N	5.71	128.40	120.29
1	e	25	GLU	C-N-CA	5.71	128.40	120.29
2	5	191	ILE	N-CA-C	-5.71	97.46	109.34
2	1	103	TYR	N-CA-C	-5.71	106.48	113.50
2	4	146	THR	CA-C-N	5.71	128.40	120.29
2	4	146	THR	C-N-CA	5.71	128.40	120.29
3	L	321	PHE	CB-CA-C	-5.71	101.31	110.79
3	J	130	PHE	CA-CB-CG	5.71	119.51	113.80
1	B	157	LEU	N-CA-CB	5.71	121.46	111.13
1	b	204	LEU	O-C-N	5.71	129.66	123.10
1	g	214	VAL	N-CA-C	-5.71	99.33	107.77
2	1	112	ILE	N-CA-C	-5.71	100.18	108.17
2	m	197	TYR	CA-C-N	5.71	131.04	123.00
2	m	197	TYR	C-N-CA	5.71	131.04	123.00
3	H	397	PHE	CA-CB-CG	-5.71	108.09	113.80
1	a	228	GLU	N-CA-C	-5.71	106.30	113.72
1	a	72	GLU	N-CA-C	-5.70	106.54	112.93
1	b	89	ILE	N-CA-CB	5.70	119.14	110.58
1	C	8	TYR	N-CA-C	-5.70	105.66	113.30
1	C	81	LEU	N-CA-CB	5.70	118.36	109.97
3	H	55	VAL	CA-C-O	-5.70	114.72	121.05
3	I	330	LEU	CA-C-N	5.70	132.44	121.54
3	I	330	LEU	C-N-CA	5.70	132.44	121.54
1	E	9	ASP	CA-C-O	5.70	124.79	118.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	10	ARG	N-CA-C	-5.70	105.53	112.88
2	1	194	ASP	N-CA-C	-5.70	105.53	112.88
3	I	124	ASP	CA-CB-CG	5.70	118.30	112.60
3	L	53	SER	N-CA-CB	5.70	118.60	110.16
1	A	97	GLN	CB-CG-CD	-5.70	102.91	112.60
1	F	211	VAL	O-C-N	-5.70	117.02	123.18
2	i	18	VAL	O-C-N	-5.70	116.45	122.95
1	A	223	GLU	CA-CB-CG	5.70	125.50	114.10
1	b	185	PHE	CA-C-N	5.70	128.38	120.29
1	b	185	PHE	C-N-CA	5.70	128.38	120.29
1	D	181	ASP	N-CA-C	-5.70	105.99	113.17
2	6	136	ASP	CA-C-O	-5.70	112.36	120.51
3	L	198	GLN	N-CA-C	5.70	117.49	111.28
1	D	156	LEU	CB-CA-C	-5.70	101.02	110.14
1	g	184	SER	O-C-N	-5.70	115.64	122.65
2	i	136	ASP	CA-C-N	5.70	132.74	122.43
2	i	136	ASP	C-N-CA	5.70	132.74	122.43
1	c	241	ARG	CA-C-N	5.70	127.84	120.44
1	c	241	ARG	C-N-CA	5.70	127.84	120.44
1	E	210	GLU	O-C-N	5.70	129.97	123.31
1	f	16	SER	CA-C-N	5.70	125.55	119.28
1	f	16	SER	C-N-CA	5.70	125.55	119.28
3	L	214	LYS	CA-C-N	5.70	132.23	121.69
3	L	214	LYS	C-N-CA	5.70	132.23	121.69
3	M	22	LYS	CA-C-N	5.70	128.19	120.44
3	M	22	LYS	C-N-CA	5.70	128.19	120.44
3	M	117	ASN	OD1-CG-ND2	5.70	128.30	122.60
2	j	132	ILE	CA-C-N	5.69	129.44	121.24
2	j	132	ILE	C-N-CA	5.69	129.44	121.24
2	m	161	VAL	N-CA-C	-5.69	105.27	113.07
1	G	219	ARG	N-CA-CB	5.69	120.11	110.49
2	6	99	ASN	N-CA-C	5.69	117.48	111.28
2	6	177	LYS	CB-CA-C	-5.69	101.17	110.85
1	e	64	ILE	CA-CB-CG1	5.69	120.07	110.40
2	k	189	VAL	CA-C-O	5.69	126.51	120.48
3	M	155	GLU	CB-CA-C	-5.69	101.34	110.79
3	M	329	LYS	N-CA-C	-5.69	99.91	109.07
1	g	192	GLY	CA-C-N	5.69	127.83	120.44
1	g	192	GLY	C-N-CA	5.69	127.83	120.44
2	6	76	LEU	CA-C-N	5.69	127.84	120.44
2	6	76	LEU	C-N-CA	5.69	127.84	120.44
1	c	66	LYS	N-CA-C	-5.69	107.58	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	i	169	VAL	N-CA-C	-5.69	104.96	110.42
2	7	151	LEU	CA-C-O	-5.69	114.39	120.42
1	a	112	LEU	CA-C-N	5.68	127.83	120.44
1	a	112	LEU	C-N-CA	5.68	127.83	120.44
1	b	161	ALA	N-CA-CB	5.68	120.09	110.49
1	D	237	ASN	CB-CG-ND2	-5.68	107.87	116.40
1	e	107	ILE	CA-C-O	-5.68	114.54	121.13
1	f	21	LEU	CA-C-N	5.68	127.83	120.44
1	f	21	LEU	C-N-CA	5.68	127.83	120.44
3	J	387	THR	N-CA-CB	5.68	120.49	110.37
1	D	10	ARG	CD-NE-CZ	-5.68	116.44	124.40
2	6	87	VAL	CB-CA-C	-5.68	104.47	112.14
1	B	73	HIS	CA-CB-CG	5.68	119.48	113.80
1	b	120	LYS	N-CA-CB	5.68	118.57	110.16
1	g	146	LYS	N-CA-C	-5.68	100.43	109.23
2	j	125	ILE	N-CA-C	-5.68	100.25	108.71
2	5	127	PRO	CA-C-N	5.68	131.53	122.56
2	5	127	PRO	C-N-CA	5.68	131.53	122.56
3	K	39	SER	CA-C-N	5.68	128.35	120.29
3	K	39	SER	C-N-CA	5.68	128.35	120.29
3	L	102	PRO	CA-C-O	-5.68	115.31	121.27
1	A	24	VAL	CA-C-N	5.68	128.46	120.28
1	A	24	VAL	C-N-CA	5.68	128.46	120.28
2	h	114	GLY	O-C-N	-5.68	117.17	124.15
2	5	80	ARG	CD-NE-CZ	-5.68	116.45	124.40
2	l	92	THR	CA-C-N	5.68	127.89	120.28
2	l	92	THR	C-N-CA	5.68	127.89	120.28
3	M	61	PRO	N-CA-C	5.68	117.62	110.70
1	b	205	VAL	N-CA-CB	5.67	116.49	111.67
1	E	179	TYR	N-CA-CB	5.67	118.31	109.97
1	D	129	VAL	N-CA-CB	5.67	120.59	111.23
2	7	182	SER	O-C-N	5.67	129.98	123.29
2	2	115	ILE	O-C-N	5.67	129.30	123.18
2	i	60	VAL	N-CA-CB	5.67	117.06	110.65
2	i	68	ARG	NE-CZ-NH1	-5.67	115.83	121.50
2	i	147	ALA	CA-C-N	5.67	128.15	120.38
2	i	147	ALA	C-N-CA	5.67	128.15	120.38
3	K	41	ARG	N-CA-C	5.67	117.91	111.11
1	B	67	ILE	CA-C-N	5.67	129.52	121.42
1	B	67	ILE	C-N-CA	5.67	129.52	121.42
2	3	165	VAL	CA-C-N	5.67	127.81	120.44
2	3	165	VAL	C-N-CA	5.67	127.81	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	23	GLN	OE1-CD-NE2	-5.67	116.94	122.60
3	M	167	PHE	CA-C-N	5.67	127.87	120.28
3	M	167	PHE	C-N-CA	5.67	127.87	120.28
1	a	154	GLY	CA-C-N	5.66	128.75	120.71
1	a	154	GLY	C-N-CA	5.66	128.75	120.71
1	c	204	LEU	N-CA-CB	5.66	118.54	110.44
3	I	205	ARG	N-CA-C	-5.66	99.29	108.52
3	K	187	GLY	CA-C-N	5.66	128.19	120.54
3	K	187	GLY	C-N-CA	5.66	128.19	120.54
2	5	13	THR	CA-CB-OG1	5.66	118.09	109.60
3	H	258	ASP	CA-C-N	5.66	127.87	120.28
3	H	258	ASP	C-N-CA	5.66	127.87	120.28
3	L	90	ASN	N-CA-C	-5.66	100.01	109.24
2	i	204	VAL	CA-C-N	5.66	128.43	120.28
2	i	204	VAL	C-N-CA	5.66	128.43	120.28
3	M	356	THR	N-CA-CB	5.66	119.06	110.28
1	f	61	ALA	N-CA-C	-5.66	104.16	113.50
2	1	101	TYR	CB-CG-CD2	-5.66	112.31	120.80
1	A	151	ASP	CA-C-N	5.66	125.27	119.56
1	A	151	ASP	C-N-CA	5.66	125.27	119.56
1	e	187	ASP	N-CA-C	-5.66	105.20	111.36
1	G	103	TYR	CA-C-N	5.66	130.39	122.08
1	G	103	TYR	C-N-CA	5.66	130.39	122.08
2	3	28	GLU	N-CA-CB	5.66	120.58	110.80
3	H	117	ASN	CA-C-O	5.66	127.50	121.45
2	3	193	GLU	N-CA-CB	5.65	120.05	110.49
3	I	59	ARG	NE-CZ-NH2	-5.65	114.11	119.20
3	M	88	VAL	CA-C-N	-5.65	114.66	122.69
3	M	88	VAL	C-N-CA	-5.65	114.66	122.69
1	d	160	LYS	N-CA-C	-5.65	105.06	112.41
1	A	59	LEU	CA-C-N	5.65	129.81	120.94
1	A	59	LEU	C-N-CA	5.65	129.81	120.94
1	b	66	LYS	N-CA-C	-5.65	106.05	114.64
2	3	144	SER	CB-CA-C	-5.65	101.41	110.79
2	5	149	GLY	CA-C-N	5.65	128.20	120.46
2	5	149	GLY	C-N-CA	5.65	128.20	120.46
3	L	241	ASP	O-C-N	-5.65	116.88	123.27
3	L	325	THR	CA-C-N	5.65	128.17	120.54
3	L	325	THR	C-N-CA	5.65	128.17	120.54
1	G	171	VAL	O-C-N	-5.65	116.39	121.87
2	n	30	ARG	N-CA-CB	5.65	120.03	110.49
3	H	158	GLU	N-CA-C	5.65	117.52	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	180	ARG	NE-CZ-NH2	5.65	124.28	119.20
3	K	206	VAL	N-CA-C	-5.65	99.99	108.12
1	D	186	ASP	N-CA-CB	5.64	118.51	110.16
1	E	120	LYS	CA-C-N	5.64	128.41	120.28
1	E	120	LYS	C-N-CA	5.64	128.41	120.28
1	e	87	VAL	CB-CA-C	-5.64	104.43	112.22
3	L	224	ARG	O-C-N	5.64	128.10	122.12
3	M	27	TYR	CB-CA-C	-5.64	98.86	110.38
2	5	75	ASN	CA-C-N	5.64	127.78	120.44
2	5	75	ASN	C-N-CA	5.64	127.78	120.44
3	K	384	LYS	N-CA-C	5.64	117.43	111.28
3	M	217	GLY	N-CA-C	-5.64	107.46	115.30
1	a	28	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	d	217	ASP	CA-C-O	5.64	126.25	119.43
3	I	189	THR	N-CA-C	-5.64	104.77	111.03
2	1	47	GLN	CA-C-O	5.64	126.39	120.36
1	b	180	ARG	NE-CZ-NH1	-5.64	115.86	121.50
3	L	52	ARG	CA-C-N	5.64	128.29	120.29
3	L	52	ARG	C-N-CA	5.64	128.29	120.29
1	C	230	LYS	N-CA-C	5.63	122.26	109.81
2	5	196	PHE	CB-CA-C	5.63	119.23	111.23
1	C	69	LYS	N-CA-CB	5.63	118.28	110.17
1	D	139	ALA	N-CA-CB	5.63	120.14	110.68
1	C	121	GLN	CA-C-O	5.63	126.52	120.55
2	4	36	PHE	CA-C-N	5.63	128.05	120.50
2	4	36	PHE	C-N-CA	5.63	128.05	120.50
2	k	177	LYS	N-CA-CB	5.63	118.50	110.16
2	l	142	SER	N-CA-C	-5.63	105.16	113.61
1	f	122	GLN	CB-CG-CD	-5.63	103.03	112.60
2	i	76	LEU	CB-CA-C	-5.63	101.45	110.79
2	i	79	ILE	CB-CA-C	-5.63	104.45	112.22
1	C	64	ILE	O-C-N	5.63	129.13	122.83
2	3	22	GLY	CA-C-N	5.63	130.81	122.71
2	3	22	GLY	C-N-CA	5.63	130.81	122.71
3	L	94	TYR	CA-CB-CG	-5.63	103.77	113.90
1	B	65	GLU	N-CA-CB	5.62	120.06	110.50
1	c	182	ASP	CA-CB-CG	-5.62	106.98	112.60
2	7	171	ALA	CB-CA-C	-5.62	102.02	110.90
3	I	59	ARG	CA-CB-CG	5.62	125.35	114.10
3	L	146	LEU	CA-C-N	5.62	127.75	120.44
3	L	146	LEU	C-N-CA	5.62	127.75	120.44
1	g	188	ALA	CA-C-N	5.62	128.27	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	188	ALA	C-N-CA	5.62	128.27	120.29
1	g	220	THR	CA-C-O	5.62	127.65	120.57
2	j	42	ALA	CA-C-N	5.62	128.85	120.87
2	j	42	ALA	C-N-CA	5.62	128.85	120.87
2	n	189	VAL	N-CA-CB	5.62	119.73	111.52
3	I	209	SER	CA-C-O	5.62	124.98	119.08
1	B	203	GLU	O-C-N	5.62	129.33	122.75
3	M	224	ARG	CB-CA-C	-5.62	100.42	110.70
1	D	120	LYS	CA-C-O	5.62	126.72	120.82
2	h	81	ARG	N-CA-C	-5.62	106.59	113.50
1	A	168	ARG	N-CA-C	5.62	120.64	111.37
1	g	241	ARG	CA-C-O	-5.62	114.47	120.42
2	5	47	GLN	O-C-N	-5.62	116.19	122.93
1	B	111	GLU	N-CA-CB	5.61	118.94	110.30
1	D	103	TYR	N-CA-C	-5.61	107.43	114.56
1	d	23	GLN	N-CA-CB	5.61	118.98	110.28
1	G	232	TYR	N-CA-CB	5.61	118.47	110.16
3	I	267	GLN	N-CA-CB	5.61	118.37	110.12
3	K	294	ASP	CA-C-N	5.61	125.45	119.28
3	K	294	ASP	C-N-CA	5.61	125.45	119.28
3	L	375	PHE	O-C-N	-5.61	116.17	122.12
3	M	339	LEU	CA-C-N	5.61	127.80	120.28
3	M	339	LEU	C-N-CA	5.61	127.80	120.28
3	J	164	PRO	O-C-N	-5.61	114.72	122.24
1	c	179	TYR	N-CA-C	-5.61	98.85	110.80
3	J	344	GLU	CB-CG-CD	-5.61	103.06	112.60
2	i	51	ARG	O-C-N	-5.61	115.57	122.25
3	K	191	LEU	CA-C-N	5.61	128.26	120.29
3	K	191	LEU	C-N-CA	5.61	128.26	120.29
3	M	36	PHE	N-CA-CB	5.61	118.46	110.16
3	M	386	THR	N-CA-C	-5.61	98.85	110.80
1	C	205	VAL	N-CA-C	-5.61	101.61	107.84
2	4	25	MET	N-CA-C	-5.61	100.75	109.72
2	4	92	THR	CA-C-N	5.61	127.80	120.28
2	4	92	THR	C-N-CA	5.61	127.80	120.28
1	G	240	ILE	CB-CA-C	-5.61	104.48	112.22
2	6	91	ALA	CA-C-N	5.61	128.25	120.29
2	6	91	ALA	C-N-CA	5.61	128.25	120.29
1	A	215	LYS	N-CA-CB	5.60	119.06	110.49
2	m	198	GLN	N-CA-CB	5.60	119.39	110.65
2	k	111	LEU	N-CA-CB	5.60	119.57	110.77
3	L	205	ARG	NH1-CZ-NH2	5.60	126.58	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	171	VAL	CA-C-N	5.60	127.72	120.44
1	D	171	VAL	C-N-CA	5.60	127.72	120.44
1	f	148	TYR	CB-CG-CD2	-5.60	112.40	120.80
2	l	37	ILE	N-CA-CB	5.60	118.87	110.13
1	B	182	ASP	N-CA-C	-5.60	105.05	112.94
1	C	95	GLU	CA-C-N	5.60	128.24	120.29
1	C	95	GLU	C-N-CA	5.60	128.24	120.29
1	D	83	ALA	CA-C-N	5.60	128.82	120.31
1	D	83	ALA	C-N-CA	5.60	128.82	120.31
3	M	273	ASP	CA-C-O	5.60	126.48	120.55
3	J	148	VAL	CA-C-N	5.60	128.24	120.29
3	J	148	VAL	C-N-CA	5.60	128.24	120.29
1	D	165	GLY	O-C-N	5.60	127.71	122.90
1	e	212	GLY	N-CA-C	-5.60	102.56	111.18
2	h	194	ASP	CA-C-N	5.60	132.38	121.63
2	h	194	ASP	C-N-CA	5.60	132.38	121.63
2	j	30	ARG	CA-C-O	5.60	127.43	120.54
2	j	175	ALA	N-CA-C	5.60	117.38	111.28
3	J	146	LEU	CA-C-N	5.60	127.78	120.28
3	J	146	LEU	C-N-CA	5.60	127.78	120.28
1	A	237	ASN	N-CA-C	5.59	118.14	111.71
1	D	123	TYR	CA-C-O	5.59	126.25	119.31
1	e	84	ASP	CA-C-N	5.59	127.78	120.28
1	e	84	ASP	C-N-CA	5.59	127.78	120.28
2	3	176	MET	CA-C-O	5.59	125.84	119.18
2	7	159	ILE	N-CA-CB	-5.59	102.27	111.45
3	H	237	ILE	CA-C-O	5.59	126.21	120.39
3	J	360	MET	N-CA-CB	5.59	118.95	110.28
2	1	78	GLU	N-CA-C	5.59	117.06	111.07
1	c	221	PHE	CA-CB-CG	-5.59	108.21	113.80
1	d	73	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	f	39	GLY	N-CA-C	-5.59	99.93	113.18
2	3	151	LEU	O-C-N	-5.59	116.19	122.12
2	n	116	ASP	N-CA-C	-5.59	100.83	108.38
3	L	341	ARG	CB-CA-C	-5.59	101.34	110.85
1	b	108	THR	N-CA-CB	5.59	118.19	109.97
1	D	120	LYS	CA-C-N	5.59	127.77	120.28
1	D	120	LYS	C-N-CA	5.59	127.77	120.28
2	1	206	GLN	CA-C-N	5.59	128.35	120.42
2	1	206	GLN	C-N-CA	5.59	128.35	120.42
2	i	36	PHE	CA-C-O	-5.59	115.25	121.51
2	j	94	THR	O-C-N	-5.59	115.78	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	j	213	LYS	N-CA-CB	5.59	120.00	110.50
1	D	92	ALA	CA-C-N	5.58	128.04	120.44
1	D	92	ALA	C-N-CA	5.58	128.04	120.44
1	g	173	GLU	CA-C-N	5.58	127.77	120.28
1	g	173	GLU	C-N-CA	5.58	127.77	120.28
3	L	278	ARG	CA-C-N	5.58	132.36	121.41
3	L	278	ARG	C-N-CA	5.58	132.36	121.41
3	J	271	GLU	CA-C-N	5.58	130.04	120.71
3	J	271	GLU	C-N-CA	5.58	130.04	120.71
3	I	218	GLU	CA-C-O	5.58	126.34	120.42
1	b	124	THR	O-C-N	-5.58	114.97	122.23
1	e	228	GLU	CB-CG-CD	-5.58	103.11	112.60
2	7	161	VAL	CA-C-N	5.58	133.25	122.53
2	7	161	VAL	C-N-CA	5.58	133.25	122.53
1	A	151	ASP	O-C-N	-5.58	117.00	121.80
2	1	102	ARG	NE-CZ-NH1	-5.58	115.92	121.50
3	H	264	THR	CA-C-N	5.58	127.76	120.28
3	H	264	THR	C-N-CA	5.58	127.76	120.28
2	n	168	ALA	CA-C-O	-5.58	114.97	120.82
3	K	283	VAL	O-C-N	-5.58	117.32	123.18
1	f	98	ILE	O-C-N	5.58	127.70	121.90
1	f	179	TYR	N-CA-CB	5.58	119.91	110.49
2	h	172	ILE	CA-C-O	5.58	126.49	120.47
2	i	194	ASP	O-C-N	-5.58	115.18	122.59
2	j	126	ASP	CA-C-O	-5.58	116.12	121.08
2	l	153	ASP	CB-CA-C	-5.58	102.13	110.88
3	I	346	ALA	N-CA-CB	5.58	118.48	110.06
3	J	77	VAL	N-CA-C	-5.58	100.09	108.12
1	a	224	VAL	CA-CB-CG2	-5.57	100.93	110.40
1	b	149	GLU	O-C-N	5.57	129.93	123.30
1	C	121	GLN	O-C-N	-5.57	116.21	122.12
1	e	200	ILE	CA-CB-CG2	-5.57	101.03	110.50
1	G	88	LEU	CA-C-N	5.57	129.44	120.30
1	G	88	LEU	C-N-CA	5.57	129.44	120.30
3	L	91	THR	CA-CB-CG2	5.57	119.97	110.50
3	J	306	ILE	CA-C-N	5.57	130.23	122.93
3	J	306	ILE	C-N-CA	5.57	130.23	122.93
1	a	171	VAL	O-C-N	5.57	127.57	121.83
3	H	76	ARG	CD-NE-CZ	-5.57	116.60	124.40
1	A	157	LEU	N-CA-CB	5.57	120.17	110.81
2	i	169	VAL	CA-C-N	5.57	128.30	120.28
2	i	169	VAL	C-N-CA	5.57	128.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5	171	ALA	N-CA-C	5.57	117.43	111.36
3	K	133	GLU	N-CA-C	-5.57	105.84	113.30
3	K	186	THR	CA-CB-CG2	5.57	119.97	110.50
3	I	250	ARG	CD-NE-CZ	-5.57	116.61	124.40
3	K	336	PHE	CA-C-N	5.57	128.20	120.29
3	K	336	PHE	C-N-CA	5.57	128.20	120.29
3	M	18	GLU	CB-CG-CD	-5.57	103.14	112.60
1	g	54	VAL	O-C-N	5.57	128.82	123.14
2	2	79	ILE	CA-C-O	-5.57	114.95	120.85
3	H	45	GLU	CA-C-N	5.57	127.67	120.44
3	H	45	GLU	C-N-CA	5.57	127.67	120.44
3	L	394	GLY	CA-C-N	5.56	131.72	121.70
3	L	394	GLY	C-N-CA	5.56	131.72	121.70
1	C	172	THR	CB-CA-C	-5.56	102.15	110.88
1	F	25	GLU	N-CA-C	-5.56	105.30	111.36
2	m	102	ARG	NE-CZ-NH2	5.56	124.20	119.20
3	L	62	PRO	N-CA-CB	5.56	109.09	103.25
1	d	43	LYS	CA-C-N	5.56	130.59	122.08
1	d	43	LYS	C-N-CA	5.56	130.59	122.08
1	E	206	PRO	N-CA-C	-5.56	107.40	114.35
2	h	139	ALA	N-CA-CB	5.56	119.89	110.49
2	j	132	ILE	N-CA-C	-5.56	100.33	108.11
2	n	38	ALA	CB-CA-C	-5.56	100.53	110.70
1	D	93	ARG	N-CA-C	-5.56	105.14	111.14
1	F	224	VAL	CB-CA-C	-5.56	104.19	111.25
2	k	207	ILE	CB-CA-C	-5.56	104.55	112.22
3	I	126	MET	CA-C-O	-5.56	112.56	120.51
3	L	321	PHE	N-CA-CB	5.56	118.29	110.12
1	d	28	ARG	N-CA-CB	5.55	118.89	110.28
1	E	85	ALA	CA-C-N	5.55	127.66	120.44
1	E	85	ALA	C-N-CA	5.55	127.66	120.44
2	1	119	GLY	CA-C-N	-5.55	114.61	122.94
2	1	119	GLY	C-N-CA	-5.55	114.61	122.94
2	7	161	VAL	N-CA-C	-5.55	107.07	112.29
3	L	68	VAL	CA-CB-CG2	-5.55	100.96	110.40
2	2	179	ASP	N-CA-CB	5.55	120.58	111.31
2	i	102	ARG	NE-CZ-NH2	5.55	124.20	119.20
2	1	51	ARG	N-CA-C	-5.55	104.75	112.30
2	6	93	LEU	CA-C-N	5.55	127.72	120.28
2	6	93	LEU	C-N-CA	5.55	127.72	120.28
1	a	135	SER	N-CA-C	-5.55	99.97	109.24
1	b	82	VAL	CA-C-N	5.55	127.72	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	82	VAL	C-N-CA	5.55	127.72	120.28
1	D	149	GLU	N-CA-C	-5.55	99.38	108.76
3	J	183	PRO	CA-C-N	5.55	125.50	119.78
3	J	183	PRO	C-N-CA	5.55	125.50	119.78
1	E	106	PRO	CA-C-N	5.55	128.53	120.98
1	E	106	PRO	C-N-CA	5.55	128.53	120.98
2	m	176	MET	CG-SD-CE	-5.55	88.69	100.90
3	J	367	ARG	N-CA-C	-5.55	100.66	109.59
1	a	239	ARG	CA-C-N	5.55	128.06	120.46
1	a	239	ARG	C-N-CA	5.55	128.06	120.46
1	g	142	ASP	CA-CB-CG	5.55	118.15	112.60
2	h	137	ILE	CB-CG1-CD1	5.55	125.45	113.80
2	3	192	THR	N-CA-C	-5.55	105.12	112.94
2	m	155	PHE	N-CA-CB	5.55	118.12	109.97
2	3	207	ILE	CA-CB-CG1	-5.54	100.97	110.40
1	D	32	LYS	O-C-N	-5.54	115.83	122.15
1	d	122	GLN	N-CA-CB	5.54	118.27	110.12
2	5	200	SER	CA-C-N	5.54	125.00	119.24
2	5	200	SER	C-N-CA	5.54	125.00	119.24
3	H	266	MET	O-C-N	5.54	128.47	122.15
3	K	276	ASP	N-CA-CB	5.54	119.26	110.11
1	a	136	LEU	CA-C-O	-5.54	114.98	121.46
1	a	166	MET	CA-C-O	5.54	126.41	120.70
2	n	20	LYS	N-CA-C	-5.54	106.10	112.92
2	6	146	THR	CA-C-O	5.54	126.29	120.42
1	c	121	GLN	O-C-N	5.54	127.99	122.12
2	i	47	GLN	CA-C-N	5.54	130.31	121.34
2	i	47	GLN	C-N-CA	5.54	130.31	121.34
2	4	211	PHE	CB-CG-CD2	5.54	130.11	120.70
2	7	147	ALA	CA-C-N	5.54	128.25	120.28
2	7	147	ALA	C-N-CA	5.54	128.25	120.28
1	F	60	GLU	N-CA-C	-5.54	99.88	108.90
2	m	103	TYR	CA-C-O	5.54	126.40	119.59
1	B	67	ILE	N-CA-C	-5.54	97.83	109.34
2	4	95	SER	N-CA-C	5.54	117.39	111.36
3	H	16	LEU	N-CA-CB	5.54	118.10	110.07
1	a	130	ARG	CA-C-N	5.53	125.97	119.99
1	a	130	ARG	C-N-CA	5.53	125.97	119.99
1	b	202	SER	N-CA-C	-5.53	100.91	108.38
2	h	207	ILE	N-CA-C	-5.53	104.97	111.00
2	4	109	GLN	N-CA-C	-5.53	100.16	109.07
2	7	212	ARG	NE-CZ-NH2	-5.53	114.22	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3	35	ASN	O-C-N	5.53	128.26	122.23
2	5	96	ASN	N-CA-C	-5.53	105.17	111.14
1	B	209	ILE	CA-C-O	-5.53	116.16	121.63
2	j	158	GLU	N-CA-C	-5.53	100.74	108.54
2	5	75	ASN	OD1-CG-ND2	5.53	128.13	122.60
2	l	23	VAL	N-CA-C	-5.53	100.27	108.45
3	L	124	ASP	CA-CB-CG	5.53	118.13	112.60
1	E	178	GLU	CA-C-N	5.53	128.72	120.87
1	E	178	GLU	C-N-CA	5.53	128.72	120.87
1	f	115	LYS	N-CA-CB	5.53	118.44	110.20
1	b	64	ILE	CA-C-N	5.53	129.32	121.42
1	b	64	ILE	C-N-CA	5.53	129.32	121.42
1	G	120	LYS	CA-CB-CG	-5.53	103.05	114.10
3	K	327	LYS	CA-C-O	5.53	126.16	119.31
3	L	157	VAL	CA-C-N	5.53	127.95	120.65
3	L	157	VAL	C-N-CA	5.53	127.95	120.65
1	c	170	ALA	CA-C-N	5.53	129.70	120.64
1	c	170	ALA	C-N-CA	5.53	129.70	120.64
1	d	173	GLU	O-C-N	5.53	127.98	122.12
1	E	128	GLY	CA-C-N	5.53	130.30	123.12
1	E	128	GLY	C-N-CA	5.53	130.30	123.12
1	g	208	ASN	CA-CB-CG	5.53	118.13	112.60
2	i	177	LYS	CA-C-N	5.53	127.95	120.44
2	i	177	LYS	C-N-CA	5.53	127.95	120.44
3	H	52	ARG	N-CA-CB	5.52	118.24	110.12
3	I	364	ARG	N-CA-C	-5.52	106.04	112.89
3	L	247	ALA	CB-CA-C	-5.52	102.17	110.24
2	2	47	GLN	CA-C-N	5.52	128.64	120.74
2	2	47	GLN	C-N-CA	5.52	128.64	120.74
3	L	117	ASN	CA-CB-CG	5.52	118.12	112.60
1	d	151	ASP	CA-C-N	5.52	125.19	119.56
1	d	151	ASP	C-N-CA	5.52	125.19	119.56
2	l	101	TYR	CB-CG-CD1	5.52	129.08	120.80
1	e	208	ASN	CA-CB-CG	5.52	118.12	112.60
1	G	245	LYS	N-CA-CB	5.52	118.23	110.12
1	g	233	VAL	N-CA-CB	5.52	118.05	110.54
1	B	125	GLN	O-C-N	-5.52	116.39	122.07
2	k	20	LYS	N-CA-C	-5.52	106.39	113.01
2	m	118	GLU	CB-CA-C	-5.52	100.88	110.09
1	E	105	GLU	O-C-N	-5.52	116.31	121.72
1	a	180	ARG	NE-CZ-NH1	-5.51	115.99	121.50
1	D	211	VAL	CA-C-N	5.51	125.98	122.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	211	VAL	C-N-CA	5.51	125.98	122.18
2	h	141	GLY	CA-C-O	-5.51	113.11	122.43
2	2	123	TYR	CB-CG-CD1	5.51	129.07	120.80
3	I	342	ILE	CA-C-O	-5.51	115.22	120.95
3	K	302	ARG	N-CA-C	-5.51	105.18	113.89
3	L	158	GLU	O-C-N	5.51	127.77	122.03
1	d	175	PHE	N-CA-C	-5.51	105.81	112.54
1	c	53	ARG	NE-CZ-NH1	-5.51	115.99	121.50
1	E	176	GLU	N-CA-CB	5.51	118.22	110.12
2	h	158	GLU	N-CA-CB	-5.51	104.01	110.35
2	2	100	SER	CA-C-O	5.51	126.61	120.82
2	j	99	ASN	O-C-N	-5.51	116.39	122.07
2	j	132	ILE	N-CA-CB	5.51	119.02	111.41
3	J	183	PRO	CA-C-O	-5.51	116.38	120.73
3	L	36	PHE	N-CA-C	5.51	117.28	111.28
1	d	214	VAL	CA-C-O	5.51	125.83	120.27
3	K	350	ASP	CA-C-N	5.51	127.61	120.56
3	K	350	ASP	C-N-CA	5.51	127.61	120.56
2	3	113	GLY	O-C-N	5.51	129.13	123.29
2	4	182	SER	N-CA-C	-5.51	100.72	109.59
3	M	105	ARG	CA-C-O	-5.51	114.41	120.69
2	n	85	PRO	CA-C-O	-5.50	114.70	121.31
2	3	74	ALA	O-C-N	5.50	127.95	122.12
3	H	312	PRO	N-CA-C	5.50	119.96	111.21
3	I	308	GLU	CA-C-O	-5.50	114.42	120.69
2	h	69	ILE	CA-C-N	5.50	128.00	120.46
2	h	69	ILE	C-N-CA	5.50	128.00	120.46
2	5	112	ILE	CA-C-N	-5.50	115.65	121.48
2	5	112	ILE	C-N-CA	-5.50	115.65	121.48
3	J	11	GLU	N-CA-CB	5.50	118.30	110.16
1	E	241	ARG	O-C-N	5.50	127.95	122.12
1	e	53	ARG	NE-CZ-NH1	-5.50	116.00	121.50
3	H	395	VAL	CB-CA-C	-5.50	103.97	110.84
3	I	244	ASP	N-CA-CB	5.50	118.69	110.22
3	J	189	THR	CA-C-N	5.50	127.65	120.28
3	J	189	THR	C-N-CA	5.50	127.65	120.28
2	1	47	GLN	O-C-N	-5.50	116.95	123.22
2	2	188	VAL	CA-CB-CG2	5.50	119.75	110.40
2	j	122	ILE	N-CA-CB	5.50	119.00	111.41
2	k	171	ALA	CA-C-N	5.50	129.66	120.64
2	k	171	ALA	C-N-CA	5.50	129.66	120.64
3	K	252	ASN	CA-CB-CG	5.50	118.10	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	250	ARG	CA-C-N	5.50	128.20	120.28
3	M	250	ARG	C-N-CA	5.50	128.20	120.28
1	C	190	VAL	CA-CB-CG1	5.50	119.74	110.40
1	e	73	HIS	ND1-CE1-NE2	5.50	113.90	108.40
2	7	170	ARG	CA-C-N	5.50	127.92	120.44
2	7	170	ARG	C-N-CA	5.50	127.92	120.44
2	n	113	GLY	O-C-N	-5.50	118.48	123.54
1	b	56	SER	CA-C-N	5.50	130.86	122.29
1	b	56	SER	C-N-CA	5.50	130.86	122.29
2	2	113	GLY	O-C-N	-5.50	118.82	123.60
1	A	83	ALA	CA-C-O	5.49	126.37	120.55
1	g	219	ARG	NE-CZ-NH1	-5.49	116.01	121.50
3	L	82	SER	N-CA-C	-5.49	106.61	113.15
3	L	288	ASN	N-CA-CB	5.49	118.39	110.20
1	g	16	SER	CA-C-O	-5.49	114.25	120.46
2	3	85	PRO	CA-C-O	-5.49	114.90	122.15
2	2	126	ASP	CA-C-N	5.49	125.11	119.56
2	2	126	ASP	C-N-CA	5.49	125.11	119.56
2	n	117	SER	N-CA-CB	5.49	118.79	110.28
1	A	71	ASP	CA-CB-CG	-5.49	107.11	112.60
2	n	184	ASP	N-CA-CB	5.49	120.42	112.13
2	3	64	GLN	CA-C-N	5.49	127.90	120.44
2	3	64	GLN	C-N-CA	5.49	127.90	120.44
2	4	90	ILE	N-CA-C	5.49	116.26	110.72
2	6	138	VAL	CA-CB-CG1	5.49	119.73	110.40
2	n	70	ILE	CA-C-N	5.48	127.63	120.28
2	n	70	ILE	C-N-CA	5.48	127.63	120.28
3	J	267	GLN	CA-C-N	5.48	127.63	120.28
3	J	267	GLN	C-N-CA	5.48	127.63	120.28
1	a	229	LEU	CA-C-N	5.48	129.08	120.97
1	a	229	LEU	C-N-CA	5.48	129.08	120.97
2	k	192	THR	CA-CB-CG2	5.48	119.82	110.50
2	m	202	GLU	N-CA-C	5.48	117.69	111.11
3	L	73	GLU	N-CA-C	-5.48	104.04	111.55
1	A	173	GLU	CA-C-N	5.48	128.17	120.28
1	A	173	GLU	C-N-CA	5.48	128.17	120.28
1	e	119	PHE	O-C-N	5.48	128.40	122.15
1	F	243	LEU	N-CA-CB	5.48	119.62	110.41
2	2	199	TYR	N-CA-C	5.48	117.33	111.36
2	3	200	SER	N-CA-C	-5.48	102.56	110.40
3	H	315	GLU	CA-C-O	-5.48	114.61	120.42
3	J	324	HIS	CB-CG-CD2	-5.48	124.08	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	36	THR	CA-CB-OG1	5.48	117.82	109.60
2	2	64	GLN	OE1-CD-NE2	5.48	128.08	122.60
2	7	68	ARG	NE-CZ-NH2	-5.48	114.27	119.20
3	H	288	ASN	CA-CB-CG	-5.48	107.12	112.60
3	I	369	LYS	CA-C-O	-5.48	115.05	121.46
2	m	206	GLN	N-CA-C	-5.48	106.60	113.28
1	e	129	VAL	N-CA-C	-5.47	100.70	108.58
1	G	168	ARG	N-CA-C	5.47	120.40	111.37
2	2	179	ASP	N-CA-C	-5.47	101.14	108.86
1	b	72	GLU	CB-CG-CD	-5.47	103.30	112.60
2	7	162	ASP	CA-CB-CG	-5.47	107.13	112.60
3	K	274	GLY	O-C-N	-5.47	116.94	122.19
3	K	397	PHE	O-C-N	5.47	130.58	122.81
1	c	116	ILE	CA-CB-CG1	5.47	119.70	110.40
3	K	215	TYR	N-CA-C	-5.47	97.57	107.75
3	M	121	THR	CA-CB-OG1	5.47	117.81	109.60
1	g	189	MET	N-CA-C	-5.47	105.40	111.36
2	j	202	GLU	N-CA-C	5.47	117.67	111.11
1	f	184	SER	N-CA-CB	5.47	117.93	110.38
1	c	119	PHE	O-C-N	-5.47	116.33	122.12
1	e	230	LYS	O-C-N	-5.47	115.43	120.51
1	f	107	ILE	N-CA-CB	5.47	117.03	110.31
2	i	205	GLU	N-CA-C	5.47	118.00	111.71
3	I	268	LEU	CA-C-N	5.47	127.55	120.44
3	I	268	LEU	C-N-CA	5.47	127.55	120.44
3	M	228	GLN	CA-C-N	5.47	127.61	120.28
3	M	228	GLN	C-N-CA	5.47	127.61	120.28
1	a	172	THR	CA-C-N	5.46	128.05	120.29
1	a	172	THR	C-N-CA	5.46	128.05	120.29
1	d	110	LYS	CA-C-N	5.46	127.60	120.28
1	d	110	LYS	C-N-CA	5.46	127.60	120.28
2	5	170	ARG	CA-C-N	5.46	128.05	120.29
2	5	170	ARG	C-N-CA	5.46	128.05	120.29
3	L	222	LEU	N-CA-C	5.46	119.66	112.89
1	e	28	ARG	NE-CZ-NH2	5.46	124.12	119.20
2	j	161	VAL	N-CA-CB	5.46	118.77	110.58
3	H	278	ARG	CD-NE-CZ	-5.46	116.76	124.40
3	L	311	LEU	N-CA-CB	5.46	116.07	109.74
2	j	164	ALA	CA-C-N	5.46	127.93	120.46
2	j	164	ALA	C-N-CA	5.46	127.93	120.46
2	k	39	SER	CA-C-N	5.46	131.35	122.67
2	k	39	SER	C-N-CA	5.46	131.35	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	159	LEU	CA-C-N	5.46	125.15	119.64
3	H	159	LEU	C-N-CA	5.46	125.15	119.64
3	H	334	VAL	CA-CB-CG1	5.46	119.67	110.40
1	E	70	ILE	CA-C-O	-5.45	116.06	120.70
2	j	161	VAL	CA-C-N	5.45	128.60	120.31
2	j	161	VAL	C-N-CA	5.45	128.60	120.31
2	n	145	LEU	CA-C-O	-5.45	115.09	120.82
3	J	31	GLU	CA-C-N	5.45	127.59	120.28
3	J	31	GLU	C-N-CA	5.45	127.59	120.28
1	A	57	LYS	CA-C-N	5.45	127.86	120.44
1	A	57	LYS	C-N-CA	5.45	127.86	120.44
1	E	49	ILE	O-C-N	-5.45	117.29	123.18
1	E	231	PRO	CA-C-N	5.45	128.03	120.29
1	E	231	PRO	C-N-CA	5.45	128.03	120.29
3	M	250	ARG	NE-CZ-NH2	-5.45	114.29	119.20
1	E	145	PRO	N-CA-CB	5.45	108.05	103.25
1	C	121	GLN	CG-CD-OE1	5.45	131.70	120.80
2	h	40	LYS	N-CA-C	-5.45	107.64	114.56
2	2	125	ILE	N-CA-C	-5.45	99.79	107.75
2	7	21	ASP	CB-CA-C	-5.45	101.27	110.64
3	I	67	VAL	CA-C-N	5.45	128.39	120.98
3	I	67	VAL	C-N-CA	5.45	128.39	120.98
3	M	52	ARG	N-CA-C	5.45	117.97	111.71
2	4	144	SER	O-C-N	-5.45	115.85	122.22
2	l	134	GLU	N-CA-CB	5.45	120.31	110.83
3	M	268	LEU	CB-CA-C	-5.45	102.33	110.88
1	f	198	LEU	CA-C-N	5.45	127.58	120.28
1	f	198	LEU	C-N-CA	5.45	127.58	120.28
2	i	161	VAL	CA-C-N	5.45	127.58	120.28
2	i	161	VAL	C-N-CA	5.45	127.58	120.28
3	K	194	ALA	CB-CA-C	-5.45	102.33	110.88
2	k	79	ILE	N-CA-C	-5.44	105.54	110.82
3	H	318	ILE	O-C-N	5.44	127.22	121.89
1	F	73	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	F	95	GLU	CA-C-N	5.44	127.57	120.28
1	F	95	GLU	C-N-CA	5.44	127.57	120.28
1	f	239	ARG	NE-CZ-NH1	-5.44	116.06	121.50
2	1	46	TYR	CA-CB-CG	-5.44	104.11	113.90
2	i	78	GLU	CA-C-O	-5.44	115.11	120.82
2	3	179	ASP	CA-CB-CG	-5.44	107.16	112.60
2	k	165	VAL	N-CA-CB	5.44	119.95	110.65
2	n	36	PHE	CA-CB-CG	5.44	119.24	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	248	ALA	CA-C-N	5.44	132.74	121.32
3	M	248	ALA	C-N-CA	5.44	132.74	121.32
1	b	14	VAL	O-C-N	-5.44	117.26	122.97
1	d	109	VAL	CA-C-N	5.44	127.51	120.44
1	d	109	VAL	C-N-CA	5.44	127.51	120.44
1	G	170	ALA	N-CA-C	5.44	116.89	111.07
3	H	262	GLN	N-CA-C	-5.44	105.38	112.23
3	K	295	PRO	CA-C-N	5.44	127.51	120.44
3	K	295	PRO	C-N-CA	5.44	127.51	120.44
2	5	77	TYR	CB-CA-C	5.44	119.82	110.79
3	J	108	LEU	N-CA-C	-5.44	101.09	109.52
1	D	115	LYS	N-CA-C	5.44	117.20	111.28
2	2	80	ARG	CA-C-O	5.44	126.30	120.70
1	B	120	LYS	CA-C-O	-5.43	113.72	119.97
1	C	100	ARG	NE-CZ-NH2	5.43	124.09	119.20
2	1	103	TYR	CA-C-N	5.43	127.42	122.37
2	1	103	TYR	C-N-CA	5.43	127.42	122.37
2	7	205	GLU	CA-C-O	5.43	126.06	119.49
3	I	369	LYS	N-CA-C	-5.43	101.26	109.85
3	M	91	THR	O-C-N	-5.43	115.82	120.71
1	A	210	GLU	CA-C-O	-5.43	114.29	120.32
1	B	166	MET	N-CA-CB	5.43	118.70	110.28
1	e	170	ALA	CA-C-N	5.43	129.63	120.29
1	e	170	ALA	C-N-CA	5.43	129.63	120.29
1	f	101	LEU	N-CA-C	5.43	117.28	111.36
1	G	193	LEU	N-CA-CB	5.43	118.67	110.30
2	1	166	GLU	CA-C-O	5.43	126.31	120.55
2	4	32	THR	OG1-CB-CG2	-5.43	98.43	109.30
2	m	19	CYS	N-CA-CB	5.43	120.00	111.20
2	m	36	PHE	N-CA-CB	5.43	119.29	110.43
3	K	127	VAL	CA-C-O	5.43	123.87	118.98
3	M	310	PRO	N-CA-CB	5.43	109.02	102.72
3	I	212	VAL	CA-CB-CG2	5.43	119.63	110.40
1	a	34	GLY	CA-C-N	5.43	131.91	121.54
1	a	34	GLY	C-N-CA	5.43	131.91	121.54
1	C	96	ALA	CA-C-N	5.43	128.56	120.31
1	C	96	ALA	C-N-CA	5.43	128.56	120.31
1	D	143	GLU	N-CA-C	-5.43	106.13	114.16
1	g	40	ILE	N-CA-C	-5.43	100.25	108.17
1	g	181	ASP	N-CA-C	-5.43	105.36	112.41
2	h	211	PHE	N-CA-C	-5.43	106.03	113.30
2	n	54	MET	CA-C-O	-5.43	114.50	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	324	HIS	CB-CG-CD2	-5.43	124.15	131.20
3	L	320	ILE	CA-C-O	-5.43	115.10	120.85
3	M	112	THR	CA-C-N	5.43	132.28	123.93
3	M	112	THR	C-N-CA	5.43	132.28	123.93
3	M	266	MET	CA-C-N	5.43	128.00	120.29
3	M	266	MET	C-N-CA	5.43	128.00	120.29
3	J	305	ARG	CA-C-O	5.43	126.29	120.32
2	l	93	LEU	CB-CA-C	-5.42	101.78	110.79
1	f	77	ALA	N-CA-C	-5.42	101.17	109.41
1	f	203	GLU	N-CA-C	-5.42	101.44	110.17
2	1	91	ALA	O-C-N	5.42	129.28	122.23
3	H	50	ARG	CA-C-O	-5.42	114.67	120.42
1	C	159	TYR	CA-C-O	5.42	127.25	121.45
1	E	97	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	f	43	LYS	CA-CB-CG	-5.42	103.25	114.10
2	6	171	ALA	O-C-N	-5.42	115.97	122.15
1	g	65	GLU	N-CA-CB	5.42	118.69	110.45
2	i	154	ARG	N-CA-C	-5.42	106.34	113.17
2	m	45	ILE	N-CA-C	-5.42	100.32	108.12
3	J	142	ASP	N-CA-C	-5.42	105.11	112.26
1	e	91	ARG	CA-C-N	5.42	127.54	120.28
1	e	91	ARG	C-N-CA	5.42	127.54	120.28
1	F	211	VAL	CA-C-N	5.42	126.24	121.58
1	F	211	VAL	C-N-CA	5.42	126.24	121.58
2	l	94	THR	CA-C-O	5.42	126.16	120.42
3	L	119	LEU	N-CA-C	5.42	117.47	109.50
3	L	186	THR	CA-C-O	5.42	126.29	120.55
3	L	264	THR	CA-C-N	5.42	127.98	120.29
3	L	264	THR	C-N-CA	5.42	127.98	120.29
1	D	82	VAL	CA-C-N	5.42	127.54	120.28
1	D	82	VAL	C-N-CA	5.42	127.54	120.28
1	d	196	MET	N-CA-CB	5.42	118.08	110.12
1	G	127	GLY	N-CA-C	-5.42	107.21	115.66
3	I	395	VAL	CA-C-O	5.42	125.27	119.91
3	J	100	LEU	N-CA-C	-5.42	101.45	110.17
1	a	125	GLN	CB-CG-CD	-5.42	103.39	112.60
3	M	242	GLU	N-CA-CB	5.42	119.64	110.49
1	A	34	GLY	CA-C-N	5.41	128.56	120.87
1	A	34	GLY	C-N-CA	5.41	128.56	120.87
1	D	137	LEU	N-CA-C	-5.41	100.08	108.90
1	F	151	ASP	CA-C-N	5.41	125.75	119.47
1	F	151	ASP	C-N-CA	5.41	125.75	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	i	139	ALA	N-CA-CB	5.41	119.95	111.56
2	k	83	ARG	N-CA-C	-5.41	100.21	108.76
3	J	112	THR	N-CA-C	-5.41	106.54	114.39
1	B	31	VAL	N-CA-C	-5.41	105.25	110.72
1	E	220	THR	N-CA-CB	5.41	119.64	110.49
3	H	297	ILE	O-C-N	5.41	127.40	121.83
1	a	239	ARG	NE-CZ-NH1	-5.41	116.09	121.50
1	B	208	ASN	CA-C-N	5.41	130.37	122.69
1	B	208	ASN	C-N-CA	5.41	130.37	122.69
1	E	89	ILE	N-CA-C	5.41	117.85	111.09
2	i	104	PHE	N-CA-CB	5.41	118.10	111.23
2	4	191	ILE	CB-CA-C	-5.41	103.96	110.99
3	H	41	ARG	O-C-N	5.41	127.72	122.09
2	1	169	VAL	O-C-N	-5.41	116.62	121.87
2	h	13	THR	CA-CB-OG1	5.41	117.71	109.60
2	4	162	ASP	CA-C-N	5.41	129.87	120.68
2	4	162	ASP	C-N-CA	5.41	129.87	120.68
2	6	30	ARG	N-CA-C	5.41	118.02	109.96
2	7	116	ASP	N-CA-C	-5.41	101.28	108.74
3	J	173	GLU	CA-C-N	5.41	125.95	120.38
3	J	173	GLU	C-N-CA	5.41	125.95	120.38
1	A	64	ILE	CA-C-N	5.41	131.43	121.70
1	A	64	ILE	C-N-CA	5.41	131.43	121.70
1	b	199	SER	CB-CA-C	-5.41	101.66	110.85
1	g	57	LYS	CA-C-N	5.41	128.53	120.31
1	g	57	LYS	C-N-CA	5.41	128.53	120.31
1	B	173	GLU	CB-CG-CD	-5.41	103.41	112.60
1	C	110	LYS	N-CA-CB	-5.41	102.17	110.01
2	3	84	LYS	O-C-N	5.41	126.69	121.28
1	b	147	LEU	N-CA-C	-5.40	99.51	108.75
1	f	32	LYS	N-CA-C	-5.40	106.53	113.01
2	4	158	GLU	N-CA-C	-5.40	106.56	112.72
2	m	204	VAL	CA-C-O	-5.40	115.12	120.85
3	L	50	ARG	CB-CA-C	-5.40	101.82	110.79
1	E	157	LEU	N-CA-C	-5.40	99.88	109.06
1	e	190	VAL	CB-CA-C	-5.40	104.85	112.14
3	H	239	PHE	CA-C-O	-5.40	114.52	120.30
1	b	196	MET	O-C-N	5.40	127.63	122.07
1	c	121	GLN	CA-C-N	5.40	127.83	120.54
1	c	121	GLN	C-N-CA	5.40	127.83	120.54
2	4	154	ARG	NE-CZ-NH2	5.40	124.06	119.20
1	C	72	GLU	O-C-N	5.40	128.54	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	200	ILE	CA-C-N	5.40	129.84	122.34
1	d	200	ILE	C-N-CA	5.40	129.84	122.34
1	F	65	GLU	N-CA-C	5.40	117.50	110.43
3	I	342	ILE	O-C-N	5.40	127.11	121.87
1	A	185	PHE	CA-C-N	5.40	127.95	120.29
1	A	185	PHE	C-N-CA	5.40	127.95	120.29
1	B	187	ASP	CA-C-N	5.40	127.95	120.29
1	B	187	ASP	C-N-CA	5.40	127.95	120.29
1	C	169	ASN	CA-CB-CG	-5.40	107.20	112.60
2	l	149	GLY	O-C-N	-5.40	117.00	122.18
3	K	389	ILE	CA-C-N	5.40	126.58	119.84
3	K	389	ILE	C-N-CA	5.40	126.58	119.84
1	C	196	MET	O-C-N	5.39	127.84	122.12
2	1	65	PHE	CA-CB-CG	-5.39	108.41	113.80
2	5	80	ARG	N-CA-C	5.39	117.24	111.36
2	l	90	ILE	O-C-N	-5.39	114.43	121.82
2	6	71	LYS	N-CA-C	5.39	117.24	111.36
1	C	26	TYR	CB-CG-CD2	5.39	128.89	120.80
1	C	47	ILE	O-C-N	5.39	129.00	123.18
2	n	87	VAL	CA-C-O	-5.39	115.34	120.95
3	H	123	LYS	CA-C-O	-5.39	115.68	121.56
3	M	134	GLU	CB-CG-CD	-5.39	103.43	112.60
3	J	313	THR	O-C-N	-5.39	115.06	122.23
1	b	182	ASP	CB-CA-C	-5.39	100.22	109.65
2	m	61	GLY	CA-C-O	-5.39	115.18	121.00
3	M	243	LEU	CB-CA-C	-5.39	102.87	111.17
1	G	114	LYS	CA-C-O	5.39	126.13	120.42
2	1	115	ILE	N-CA-C	-5.39	100.72	108.48
3	L	224	ARG	CA-C-N	5.39	127.45	120.44
3	L	224	ARG	C-N-CA	5.39	127.45	120.44
3	H	157	VAL	CB-CA-C	-5.39	106.32	111.44
1	C	172	THR	N-CA-CB	5.39	117.82	110.01
1	c	137	LEU	N-CA-C	-5.39	99.63	108.41
2	3	169	VAL	CA-C-N	5.39	127.50	120.28
2	3	169	VAL	C-N-CA	5.39	127.50	120.28
2	4	13	THR	CA-C-N	5.39	131.64	122.37
2	4	13	THR	C-N-CA	5.39	131.64	122.37
2	n	84	LYS	O-C-N	-5.39	115.75	121.30
3	L	26	LEU	O-C-N	-5.39	115.23	122.23
3	M	337	LYS	CB-CA-C	-5.39	101.69	110.85
3	J	256	SER	N-CA-C	-5.39	107.96	114.75
1	A	79	SER	N-CA-C	-5.38	100.54	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	91	ARG	CA-C-O	-5.38	114.84	120.55
3	M	298	LEU	N-CA-C	-5.38	106.72	113.72
1	c	147	LEU	O-C-N	5.38	129.57	123.27
2	5	195	GLU	CA-C-N	5.38	130.54	122.47
2	5	195	GLU	C-N-CA	5.38	130.54	122.47
2	l	98	LEU	O-C-N	5.38	128.52	122.22
2	l	165	VAL	CA-CB-CG1	5.38	119.55	110.40
3	I	32	ASP	CA-C-N	5.38	127.44	120.44
3	I	32	ASP	C-N-CA	5.38	127.44	120.44
3	L	301	GLY	N-CA-C	-5.38	107.55	115.30
3	M	63	LEU	O-C-N	5.38	129.70	123.30
3	M	294	ASP	CA-C-N	5.38	125.14	119.76
3	M	294	ASP	C-N-CA	5.38	125.14	119.76
2	k	142	SER	N-CA-C	-5.38	107.37	114.31
2	5	137	ILE	N-CA-C	-5.38	100.58	108.11
2	m	50	ASP	O-C-N	5.38	127.82	122.12
3	I	253	SER	CA-C-N	5.38	131.38	121.70
3	I	253	SER	C-N-CA	5.38	131.38	121.70
1	g	144	VAL	CB-CA-C	-5.38	101.57	111.36
2	h	83	ARG	N-CA-C	-5.38	101.12	108.38
2	k	41	ALA	CB-CA-C	-5.38	102.31	111.02
2	l	150	VAL	CA-C-O	5.38	126.55	120.85
1	g	89	ILE	CA-C-O	-5.38	115.15	120.85
2	h	104	PHE	CA-C-N	5.38	125.68	119.93
2	h	104	PHE	C-N-CA	5.38	125.68	119.93
2	4	82	GLU	CB-CG-CD	5.38	121.74	112.60
3	H	327	LYS	CA-C-N	5.38	131.26	122.07
3	H	327	LYS	C-N-CA	5.38	131.26	122.07
3	I	217	GLY	N-CA-C	-5.38	108.21	115.36
3	L	198	GLN	CA-C-O	5.38	126.25	120.55
1	B	106	PRO	CA-N-CD	-5.38	104.47	112.00
1	e	166	MET	N-CA-CB	5.37	118.61	110.28
2	h	54	MET	N-CA-C	-5.37	99.18	108.69
2	h	120	LYS	CA-C-N	-5.37	113.50	122.21
2	h	120	LYS	C-N-CA	-5.37	113.50	122.21
2	i	167	LEU	N-CA-CB	-5.37	102.22	110.12
3	L	166	LEU	N-CA-C	-5.37	105.53	111.71
3	L	260	GLU	N-CA-CB	5.37	117.80	110.01
1	e	224	VAL	CB-CA-C	-5.37	103.86	111.38
1	F	162	THR	N-CA-CB	5.37	119.73	111.46
1	f	176	GLU	N-CA-CB	5.37	117.86	110.07
3	H	83	THR	CA-C-N	5.37	130.30	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	83	THR	C-N-CA	5.37	130.30	121.87
3	H	319	GLN	N-CA-C	5.37	118.05	111.82
3	I	167	PHE	CA-CB-CG	-5.37	108.43	113.80
3	M	214	LYS	CG-CD-CE	5.37	123.66	111.30
1	c	235	ARG	NE-CZ-NH1	-5.37	116.13	121.50
1	A	28	ARG	N-CA-C	-5.37	105.99	112.54
1	B	240	ILE	CA-C-N	5.37	127.47	120.28
1	B	240	ILE	C-N-CA	5.37	127.47	120.28
3	K	169	GLU	O-C-N	5.37	127.81	122.12
2	3	128	ILE	N-CA-C	-5.37	107.25	112.29
1	F	30	ALA	N-CA-C	-5.37	105.51	111.36
2	3	173	TYR	CA-C-N	5.37	127.91	120.29
2	3	173	TYR	C-N-CA	5.37	127.91	120.29
2	5	28	GLU	N-CA-C	-5.37	100.96	109.76
3	I	317	ARG	NE-CZ-NH2	5.37	124.03	119.20
3	K	158	GLU	CB-CG-CD	-5.37	103.48	112.60
1	b	117	CYS	N-CA-CB	5.36	118.59	110.28
2	l	202	GLU	N-CA-C	5.36	117.55	111.11
3	H	94	TYR	CG-CD2-CE2	5.36	129.25	121.20
3	L	260	GLU	O-C-N	5.36	127.59	122.07
3	M	12	LYS	CA-C-N	5.36	127.47	120.28
3	M	12	LYS	C-N-CA	5.36	127.47	120.28
1	f	34	GLY	CA-C-O	-5.36	116.68	122.47
1	G	104	ASP	CA-CB-CG	5.36	117.96	112.60
3	K	114	ALA	CA-C-O	-5.36	113.95	120.54
3	M	50	ARG	CA-C-N	5.36	127.90	120.29
3	M	50	ARG	C-N-CA	5.36	127.90	120.29
3	H	43	ARG	O-C-N	5.36	127.59	122.07
1	B	103	TYR	N-CA-C	-5.36	106.06	113.18
1	g	210	GLU	N-CA-C	-5.36	99.21	108.69
2	h	138	VAL	CA-C-N	5.36	131.77	121.54
2	h	138	VAL	C-N-CA	5.36	131.77	121.54
2	3	146	THR	CA-C-N	5.36	127.46	120.28
2	3	146	THR	C-N-CA	5.36	127.46	120.28
3	M	380	GLU	N-CA-C	5.36	116.80	111.07
1	A	201	GLU	N-CA-CB	5.36	119.63	111.70
1	C	54	VAL	CB-CA-C	5.36	118.60	110.62
1	d	205	VAL	N-CA-C	-5.36	97.31	108.88
2	1	139	ALA	N-CA-C	-5.36	100.93	109.23
2	5	178	ARG	NE-CZ-NH1	-5.36	116.14	121.50
2	6	74	ALA	CB-CA-C	-5.36	101.75	110.85
2	7	146	THR	CA-C-N	5.36	127.40	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7	146	THR	C-N-CA	5.36	127.40	120.44
2	7	207	ILE	N-CA-C	-5.36	104.26	111.44
3	L	260	GLU	CA-C-N	5.36	127.80	120.46
3	L	260	GLU	C-N-CA	5.36	127.80	120.46
1	B	111	GLU	CB-CG-CD	-5.35	103.50	112.60
1	c	143	GLU	N-CA-C	-5.35	99.40	110.80
2	h	157	PRO	N-CA-C	-5.35	106.56	113.57
2	h	189	VAL	N-CA-CB	5.35	120.25	111.58
2	4	83	ARG	NE-CZ-NH1	-5.35	116.15	121.50
3	M	94	TYR	CA-CB-CG	-5.35	104.27	113.90
1	G	36	THR	CA-CB-OG1	5.35	117.63	109.60
2	k	86	THR	N-CA-CB	5.35	119.41	110.85
3	L	354	ILE	CA-C-N	5.35	127.89	120.29
3	L	354	ILE	C-N-CA	5.35	127.89	120.29
1	E	71	ASP	CA-CB-CG	-5.35	107.25	112.60
1	G	11	ALA	CA-C-O	5.35	127.50	121.51
3	H	282	LYS	CB-CG-CD	5.35	123.60	111.30
3	H	326	ARG	CA-C-N	5.35	131.08	121.66
3	H	326	ARG	C-N-CA	5.35	131.08	121.66
3	I	217	GLY	CA-C-N	5.35	127.89	120.29
3	I	217	GLY	C-N-CA	5.35	127.89	120.29
1	a	67	ILE	CA-C-O	5.35	126.03	120.36
1	c	21	LEU	CA-C-N	5.35	127.45	120.28
1	c	21	LEU	C-N-CA	5.35	127.45	120.28
1	D	16	SER	CB-CA-C	5.35	117.26	109.08
1	g	89	ILE	CA-C-N	5.35	127.88	120.29
1	g	89	ILE	C-N-CA	5.35	127.88	120.29
2	j	44	LYS	CA-C-O	5.35	124.37	118.65
3	I	176	LYS	CB-CA-C	-5.35	101.52	110.56
3	L	34	LYS	N-CA-CB	5.35	118.07	110.16
3	M	341	ARG	CA-C-O	5.35	126.22	120.55
1	a	207	GLU	N-CA-C	-5.35	106.92	113.50
3	H	372	MET	O-C-N	5.35	129.49	122.33
3	L	53	SER	CA-C-N	5.35	127.39	120.44
3	L	53	SER	C-N-CA	5.35	127.39	120.44
3	J	334	VAL	N-CA-CB	5.35	116.36	110.53
1	d	23	GLN	N-CA-C	-5.34	105.62	111.82
3	I	117	ASN	O-C-N	-5.34	117.33	123.42
3	I	390	PRO	CA-C-N	5.34	131.75	121.54
3	I	390	PRO	C-N-CA	5.34	131.75	121.54
3	K	162	LEU	N-CA-C	-5.34	105.37	111.14
3	L	181	TYR	CA-CB-CG	5.34	123.52	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	150	THR	N-CA-C	-5.34	101.46	109.95
1	c	237	ASN	CA-C-N	5.34	127.44	120.28
1	c	237	ASN	C-N-CA	5.34	127.44	120.28
2	n	202	GLU	N-CA-C	5.34	117.52	111.11
3	K	79	VAL	O-C-N	-5.34	117.49	123.26
3	J	360	MET	CB-CA-C	-5.34	100.41	110.67
1	A	6	MET	CG-SD-CE	-5.34	89.15	100.90
1	c	240	ILE	N-CA-C	-5.34	105.17	110.62
1	f	186	ASP	N-CA-C	5.34	117.10	111.28
2	3	55	THR	CB-CA-C	5.34	118.99	109.38
2	k	162	ASP	CA-CB-CG	-5.34	107.26	112.60
3	H	343	THR	CA-CB-OG1	5.34	117.61	109.60
3	K	10	LEU	CA-C-N	5.34	127.44	120.28
3	K	10	LEU	C-N-CA	5.34	127.44	120.28
2	i	46	TYR	CA-CB-CG	-5.34	104.29	113.90
2	3	186	ILE	N-CA-CB	5.34	118.78	111.41
2	5	116	ASP	O-C-N	-5.34	116.67	122.92
3	H	386	THR	CA-C-N	5.34	134.82	121.80
3	H	386	THR	C-N-CA	5.34	134.82	121.80
2	4	45	ILE	CB-CA-C	5.33	118.53	110.63
3	H	335	ASP	CA-C-N	5.33	127.43	120.28
3	H	335	ASP	C-N-CA	5.33	127.43	120.28
1	d	241	ARG	CB-CA-C	-5.33	101.94	110.79
1	F	221	PHE	CA-C-O	5.33	128.14	120.51
2	7	156	THR	CA-CB-OG1	-5.33	101.60	109.60
3	I	377	LYS	N-CA-CB	5.33	117.96	110.12
3	K	304	ASP	O-C-N	-5.33	116.47	122.12
3	M	165	GLU	CA-C-O	-5.33	115.22	120.82
2	1	209	ALA	CA-C-N	5.33	129.74	120.68
2	1	209	ALA	C-N-CA	5.33	129.74	120.68
2	2	151	LEU	N-CA-C	5.33	116.78	111.07
2	3	112	ILE	CA-C-O	-5.33	114.88	120.27
2	m	193	GLU	N-CA-CB	5.33	119.50	110.49
3	K	351	ILE	CA-C-N	5.33	127.42	120.28
3	K	351	ILE	C-N-CA	5.33	127.42	120.28
3	M	257	GLY	CA-C-N	5.33	127.69	120.44
3	M	257	GLY	C-N-CA	5.33	127.69	120.44
3	J	90	ASN	N-CA-C	-5.33	100.71	109.40
1	f	22	PHE	N-CA-CB	5.33	117.74	110.01
2	5	155	PHE	O-C-N	-5.33	116.98	123.16
1	D	43	LYS	O-C-N	5.33	130.21	122.43
1	D	51	ASP	N-CA-C	5.33	117.56	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	90	ASN	CA-CB-CG	-5.33	107.27	112.60
3	L	252	ASN	N-CA-C	-5.33	106.45	113.17
3	J	96	ASN	CA-C-O	5.33	126.96	120.99
3	M	48	VAL	N-CA-CB	5.33	121.02	110.95
3	M	60	SER	CA-C-N	5.33	125.87	120.38
3	M	60	SER	C-N-CA	5.33	125.87	120.38
1	F	9	ASP	O-C-N	5.33	129.67	122.59
2	m	87	VAL	CA-C-O	5.33	126.27	120.57
3	I	97	GLU	CA-C-O	5.33	126.12	119.78
3	M	215	TYR	N-CA-C	-5.33	101.19	108.38
1	d	33	ARG	CA-C-O	5.32	125.00	119.14
2	h	66	LEU	CA-C-N	5.32	127.41	120.28
2	h	66	LEU	C-N-CA	5.32	127.41	120.28
2	h	179	ASP	N-CA-CB	5.32	118.20	109.95
2	l	212	ARG	N-CA-CB	5.32	119.49	110.49
2	6	18	VAL	N-CA-CB	5.32	116.52	110.72
2	6	202	GLU	CA-C-O	-5.32	115.22	121.07
2	7	151	LEU	O-C-N	5.32	128.22	122.15
1	A	220	THR	CA-CB-OG1	5.32	117.58	109.60
1	g	108	THR	CA-C-N	5.32	127.97	120.42
1	g	108	THR	C-N-CA	5.32	127.97	120.42
2	i	212	ARG	NE-CZ-NH2	-5.32	114.41	119.20
2	j	210	LYS	N-CA-C	-5.32	106.79	113.28
3	M	289	ARG	O-C-N	5.32	129.11	123.42
1	a	52	LYS	CG-CD-CE	5.32	123.53	111.30
2	3	92	THR	CA-C-N	5.32	127.41	120.28
2	3	92	THR	C-N-CA	5.32	127.41	120.28
2	l	71	LYS	CB-CA-C	-5.32	102.53	110.88
2	m	87	VAL	CA-C-N	5.32	127.41	120.28
2	m	87	VAL	C-N-CA	5.32	127.41	120.28
2	n	138	VAL	CA-C-O	-5.32	116.73	121.09
3	L	349	ALA	N-CA-C	5.32	117.08	111.28
2	h	89	ALA	N-CA-C	5.32	117.08	111.28
2	m	210	LYS	CG-CD-CE	5.32	123.53	111.30
1	e	13	THR	CA-C-N	5.32	131.54	121.97
1	e	13	THR	C-N-CA	5.32	131.54	121.97
2	2	148	TYR	CA-CB-CG	-5.32	104.33	113.90
3	H	45	GLU	CB-CG-CD	-5.32	103.56	112.60
3	H	362	ALA	CA-C-N	5.32	127.74	120.46
3	H	362	ALA	C-N-CA	5.32	127.74	120.46
3	K	291	ASP	N-CA-C	-5.31	106.47	113.17
1	D	205	VAL	N-CA-C	-5.31	97.40	108.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2	48	ILE	CA-CB-CG2	5.31	119.53	110.50
3	K	315	GLU	N-CA-CB	5.31	117.93	110.12
1	B	222	LYS	N-CA-CB	5.31	121.40	111.52
2	2	204	VAL	CA-C-O	-5.31	115.43	120.95
2	k	149	GLY	N-CA-C	5.31	119.07	112.64
2	6	203	GLU	N-CA-C	5.31	117.07	111.28
3	J	118	VAL	N-CA-CB	5.31	118.74	111.41
1	c	10	ARG	N-CA-CB	-5.31	101.47	110.50
1	f	175	PHE	CA-C-N	5.31	127.66	120.44
1	f	175	PHE	C-N-CA	5.31	127.66	120.44
2	5	63	ALA	CB-CA-C	-5.31	102.51	110.90
2	5	135	LYS	CA-C-O	-5.31	115.23	121.07
1	b	125	GLN	O-C-N	-5.31	116.10	122.15
1	d	153	SER	CA-C-N	5.31	131.81	121.41
1	d	153	SER	C-N-CA	5.31	131.81	121.41
1	G	164	ILE	CA-C-N	5.31	131.81	121.41
1	G	164	ILE	C-N-CA	5.31	131.81	121.41
2	1	81	ARG	CA-C-O	5.31	124.98	119.14
3	J	188	LYS	CA-C-N	5.31	127.66	120.44
3	J	188	LYS	C-N-CA	5.31	127.66	120.44
1	B	149	GLU	CA-C-N	5.31	130.32	123.00
1	B	149	GLU	C-N-CA	5.31	130.32	123.00
1	c	180	ARG	N-CA-C	-5.31	101.64	109.18
1	d	72	GLU	O-C-N	5.31	127.53	122.07
2	i	104	PHE	N-CA-C	-5.31	100.06	108.82
3	J	76	ARG	N-CA-C	-5.31	101.69	109.81
1	d	188	ALA	N-CA-C	-5.30	105.58	111.36
2	k	168	ALA	CA-C-N	5.30	127.73	120.46
2	k	168	ALA	C-N-CA	5.30	127.73	120.46
3	M	73	GLU	O-C-N	5.30	128.97	122.34
1	d	79	SER	N-CA-C	-5.30	98.94	108.48
1	d	106	PRO	CA-C-N	5.30	127.81	120.49
1	d	106	PRO	C-N-CA	5.30	127.81	120.49
3	J	18	GLU	CA-C-O	5.30	126.04	120.42
1	E	114	LYS	O-C-N	5.30	127.53	122.07
1	E	235	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	G	44	GLU	CA-C-O	5.30	125.93	119.78
1	c	118	ASP	CA-C-N	5.30	127.38	120.28
1	c	118	ASP	C-N-CA	5.30	127.38	120.28
1	d	81	LEU	CB-CG-CD1	5.30	126.60	110.70
1	g	19	GLY	N-CA-C	-5.30	108.32	115.21
2	6	88	ARG	NE-CZ-NH1	-5.30	116.20	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	329	LYS	N-CA-C	-5.30	101.52	109.95
2	5	162	ASP	N-CA-C	-5.30	105.67	111.82
3	M	163	LYS	N-CA-CB	5.30	119.80	110.37
2	7	164	ALA	CA-C-O	5.30	126.03	120.42
2	n	102	ARG	NE-CZ-NH1	-5.30	116.20	121.50
3	J	386	THR	N-CA-CB	5.30	120.20	111.62
1	C	115	LYS	CA-C-N	5.29	127.94	120.42
1	C	115	LYS	C-N-CA	5.29	127.94	120.42
1	f	26	TYR	CA-C-N	5.29	128.36	120.31
1	f	26	TYR	C-N-CA	5.29	128.36	120.31
1	G	172	THR	N-CA-C	5.29	116.74	111.07
2	i	70	ILE	N-CA-CB	5.29	117.74	110.54
3	H	233	LYS	CA-C-N	5.29	128.01	120.49
3	H	233	LYS	C-N-CA	5.29	128.01	120.49
3	I	186	THR	O-C-N	5.29	127.52	122.07
1	A	97	GLN	CA-C-N	5.29	127.71	120.46
1	A	97	GLN	C-N-CA	5.29	127.71	120.46
1	b	184	SER	CA-C-N	5.29	127.37	120.28
1	b	184	SER	C-N-CA	5.29	127.37	120.28
3	H	83	THR	N-CA-C	-5.29	105.59	111.36
3	M	303	PHE	N-CA-C	-5.29	101.07	109.59
1	E	40	ILE	N-CA-C	-5.29	100.44	108.17
3	H	27	TYR	N-CA-CB	5.29	117.99	110.16
1	B	9	ASP	N-CA-C	-5.29	106.50	113.17
3	M	246	ILE	N-CA-C	-5.29	107.14	112.17
3	J	315	GLU	O-C-N	5.29	128.18	122.15
1	d	62	ASP	O-C-N	5.29	128.95	122.34
1	d	150	THR	N-CA-C	-5.29	100.78	109.40
2	j	102	ARG	NE-CZ-NH1	-5.29	116.21	121.50
2	m	87	VAL	CA-CB-CG2	-5.29	101.41	110.40
2	n	201	PRO	N-CA-CB	5.29	108.91	103.15
1	f	88	LEU	N-CA-C	-5.29	105.43	111.14
1	G	228	GLU	CA-C-N	5.29	129.67	120.68
1	G	228	GLU	C-N-CA	5.29	129.67	120.68
1	d	214	VAL	O-C-N	-5.29	117.68	123.18
1	F	215	LYS	N-CA-CB	5.29	118.65	110.46
1	f	124	THR	N-CA-C	-5.29	107.38	113.88
3	H	324	HIS	O-C-N	5.29	128.18	122.15
1	d	117	CYS	N-CA-C	-5.28	105.60	111.36
2	l	37	ILE	CA-C-O	-5.28	114.93	120.27
2	k	162	ASP	N-CA-CB	5.28	118.47	110.28
2	m	126	ASP	CA-CB-CG	-5.28	107.32	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	K	377	LYS	CA-C-N	5.28	127.36	120.28
3	K	377	LYS	C-N-CA	5.28	127.36	120.28
3	L	381	LYS	CA-C-O	5.28	126.37	120.82
1	C	94	ILE	CA-C-N	5.28	127.79	120.29
1	C	94	ILE	C-N-CA	5.28	127.79	120.29
2	i	46	TYR	CA-C-O	-5.28	115.00	120.70
2	3	69	ILE	N-CA-CB	5.28	116.38	110.62
3	J	383	LEU	N-CA-CB	5.28	117.88	110.12
2	4	180	SER	CA-C-N	5.28	130.50	122.37
2	4	180	SER	C-N-CA	5.28	130.50	122.37
1	A	20	ARG	NE-CZ-NH1	-5.28	116.22	121.50
1	B	80	GLY	CA-C-O	-5.28	114.61	121.05
1	C	24	VAL	N-CA-C	-5.28	105.39	110.72
1	D	180	ARG	N-CA-C	-5.28	101.10	108.96
2	2	146	THR	CA-C-N	5.28	127.35	120.28
2	2	146	THR	C-N-CA	5.28	127.35	120.28
2	3	155	PHE	CA-C-N	5.28	133.57	123.65
2	3	155	PHE	C-N-CA	5.28	133.57	123.65
2	7	180	SER	N-CA-C	-5.28	106.23	113.30
3	I	314	PHE	CA-CB-CG	5.28	119.08	113.80
1	d	175	PHE	CB-CG-CD1	-5.28	111.73	120.70
3	K	41	ARG	CA-C-N	5.28	127.21	120.56
3	K	41	ARG	C-N-CA	5.28	127.21	120.56
3	H	141	GLU	N-CA-C	-5.27	106.35	112.89
3	L	205	ARG	O-C-N	5.27	129.51	123.29
1	b	55	GLY	CA-C-O	5.27	128.32	121.68
2	h	37	ILE	N-CA-CB	5.27	116.47	110.72
2	3	32	THR	CA-CB-OG1	5.27	117.51	109.60
2	6	72	ILE	CA-CB-CG2	5.27	119.46	110.50
2	7	83	ARG	N-CA-CB	5.27	119.40	110.49
3	I	358	ALA	CA-C-N	5.27	125.83	119.98
3	I	358	ALA	C-N-CA	5.27	125.83	119.98
1	D	39	GLY	N-CA-C	-5.27	101.97	111.19
1	G	126	TYR	O-C-N	-5.27	116.64	122.86
3	L	304	ASP	CA-CB-CG	-5.27	107.33	112.60
1	a	120	LYS	CA-C-N	5.27	127.87	120.28
1	a	120	LYS	C-N-CA	5.27	127.87	120.28
2	1	39	SER	CB-CA-C	-5.27	99.94	110.42
2	j	206	GLN	O-C-N	-5.27	116.14	122.15
2	l	86	THR	CA-C-N	5.27	127.68	120.46
2	l	86	THR	C-N-CA	5.27	127.68	120.46
2	7	161	VAL	N-CA-CB	5.27	119.90	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	312	PRO	N-CA-C	-5.27	102.31	112.01
2	5	129	GLY	CA-C-N	5.27	131.74	121.41
2	5	129	GLY	C-N-CA	5.27	131.74	121.41
3	M	223	VAL	O-C-N	-5.27	116.76	121.87
3	M	318	ILE	N-CA-C	-5.27	105.25	110.62
3	J	79	VAL	CA-C-O	5.27	125.92	120.39
1	B	59	LEU	CA-C-N	5.27	128.70	120.75
1	B	59	LEU	C-N-CA	5.27	128.70	120.75
1	D	125	GLN	CB-CA-C	-5.27	101.06	110.70
2	2	180	SER	CA-C-O	5.27	125.08	119.34
3	L	155	GLU	CB-CA-C	-5.27	101.90	110.85
1	B	220	THR	N-CA-C	-5.26	99.24	107.93
1	d	104	ASP	CA-CB-CG	-5.26	107.33	112.60
1	d	235	ARG	NE-CZ-NH1	-5.26	116.24	121.50
2	7	49	ALA	CA-C-N	5.26	129.02	120.60
2	7	49	ALA	C-N-CA	5.26	129.02	120.60
3	I	221	ARG	O-C-N	-5.26	116.15	122.15
3	J	13	LEU	CA-C-N	5.26	127.86	120.28
3	J	13	LEU	C-N-CA	5.26	127.86	120.28
1	A	132	PHE	CA-C-O	-5.26	114.76	120.81
1	d	113	ALA	N-CA-CB	5.26	117.64	110.01
1	E	79	SER	N-CA-C	-5.26	99.75	108.75
3	H	44	TYR	CA-C-N	5.26	127.33	120.28
3	H	44	TYR	C-N-CA	5.26	127.33	120.28
3	H	149	GLN	OE1-CD-NE2	-5.26	117.34	122.60
3	K	218	GLU	N-CA-C	-5.26	105.63	111.36
3	M	272	LEU	CA-C-N	5.26	127.33	120.28
3	M	272	LEU	C-N-CA	5.26	127.33	120.28
2	2	172	ILE	N-CA-C	-5.26	105.19	112.50
3	I	196	ALA	CB-CA-C	-5.26	102.06	110.79
3	H	34	LYS	CA-C-N	5.26	127.76	120.29
3	H	34	LYS	C-N-CA	5.26	127.76	120.29
3	H	150	ILE	CA-C-O	5.26	126.42	120.95
3	I	105	ARG	NE-CZ-NH1	-5.26	116.24	121.50
1	A	237	ASN	CA-C-N	5.25	127.32	120.28
1	A	237	ASN	C-N-CA	5.25	127.32	120.28
1	d	24	VAL	N-CA-C	-5.25	105.59	110.53
1	d	117	CYS	CB-CA-C	-5.25	101.92	110.85
3	I	71	ILE	O-C-N	-5.25	117.59	123.26
3	K	52	ARG	N-CA-C	-5.25	105.55	111.28
3	L	140	TYR	O-C-N	-5.25	115.77	122.34
1	C	125	GLN	CG-CD-NE2	-5.25	108.52	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1	118	GLU	N-CA-CB	5.25	118.39	110.30
2	2	161	VAL	N-CA-C	-5.25	105.88	113.07
2	k	156	THR	CA-C-O	-5.25	114.55	119.91
3	I	313	THR	N-CA-C	-5.25	102.13	109.69
3	K	306	ILE	CA-C-O	-5.25	114.54	120.74
3	M	23	LEU	N-CA-CB	5.25	117.69	110.07
3	J	368	ALA	N-CA-C	-5.25	106.55	113.17
1	c	29	GLU	N-CA-C	-5.25	106.38	112.89
3	L	99	GLU	N-CA-C	-5.25	106.46	112.92
3	M	322	LYS	N-CA-C	5.25	117.41	111.11
1	e	21	LEU	N-CA-C	-5.25	103.60	110.53
1	F	133	GLY	CA-C-N	5.25	131.04	122.69
1	F	133	GLY	C-N-CA	5.25	131.04	122.69
2	6	205	GLU	N-CA-C	5.25	117.75	111.71
3	I	106	VAL	CA-C-N	5.25	128.30	120.95
3	I	106	VAL	C-N-CA	5.25	128.30	120.95
3	J	318	ILE	N-CA-C	-5.25	105.42	110.72
1	c	61	ALA	CA-C-O	5.25	125.52	118.38
1	D	82	VAL	O-C-N	5.25	129.01	121.82
1	D	176	GLU	N-CA-CB	5.25	117.92	110.16
2	3	140	THR	CB-CA-C	5.25	120.64	109.10
3	J	169	GLU	CA-C-N	5.25	128.24	120.74
3	J	169	GLU	C-N-CA	5.25	128.24	120.74
2	2	77	TYR	N-CA-CB	-5.25	102.41	110.12
1	a	166	MET	N-CA-CB	5.24	117.67	110.07
1	B	42	CYS	N-CA-CB	5.24	118.79	110.87
1	c	24	VAL	N-CA-C	5.24	116.02	110.72
1	E	212	GLY	O-C-N	-5.24	119.04	123.60
2	n	185	GLY	CA-C-N	5.24	130.23	122.94
2	n	185	GLY	C-N-CA	5.24	130.23	122.94
3	K	267	GLN	OE1-CD-NE2	5.24	127.84	122.60
3	J	59	ARG	NE-CZ-NH1	-5.24	116.26	121.50
1	D	5	GLN	CB-CA-C	5.24	120.06	110.10
1	D	186	ASP	CA-CB-CG	5.24	117.84	112.60
1	e	118	ASP	CA-CB-CG	5.24	117.84	112.60
2	h	170	ARG	N-CA-C	-5.24	105.65	111.36
2	2	162	ASP	N-CA-CB	5.24	118.52	110.61
3	H	73	GLU	N-CA-C	-5.24	106.57	113.17
3	K	347	SER	N-CA-C	-5.24	101.44	109.41
3	J	341	ARG	NE-CZ-NH2	5.24	123.92	119.20
2	i	47	GLN	CG-CD-NE2	5.24	124.26	116.40
2	l	151	LEU	N-CA-C	5.24	116.99	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7	151	LEU	CB-CA-C	-5.24	101.95	110.85
3	I	54	GLU	N-CA-CB	5.24	117.91	110.16
3	I	78	VAL	CA-CB-CG2	-5.24	101.50	110.40
3	K	28	ARG	CA-C-N	5.24	127.30	120.28
3	K	28	ARG	C-N-CA	5.24	127.30	120.28
3	K	263	ARG	CD-NE-CZ	-5.24	117.07	124.40
3	L	241	ASP	CA-C-N	5.24	131.13	121.70
3	L	241	ASP	C-N-CA	5.24	131.13	121.70
2	3	72	ILE	CB-CA-C	5.24	119.45	112.22
2	l	180	SER	CA-C-O	5.24	125.14	118.54
3	I	121	THR	CA-CB-OG1	5.24	117.45	109.60
3	K	259	ARG	CB-CA-C	-5.24	101.95	110.85
1	b	23	GLN	CA-C-N	5.24	127.86	120.42
1	b	23	GLN	C-N-CA	5.24	127.86	120.42
1	b	49	ILE	N-CA-C	-5.24	100.94	108.48
1	e	111	GLU	N-CA-CB	5.24	118.00	110.20
2	4	62	ASP	N-CA-CB	5.24	117.60	110.01
2	5	109	GLN	N-CA-C	-5.24	100.36	108.90
1	a	193	LEU	CA-C-O	-5.23	113.61	119.79
1	c	20	ARG	CA-C-N	5.23	128.65	120.75
1	c	20	ARG	C-N-CA	5.23	128.65	120.75
1	c	146	LYS	O-C-N	-5.23	117.19	123.31
1	E	21	LEU	N-CA-CB	5.23	119.30	110.77
2	5	146	THR	CA-C-N	5.23	128.26	120.31
2	5	146	THR	C-N-CA	5.23	128.26	120.31
1	A	153	SER	N-CA-CB	5.23	117.90	110.16
1	b	190	VAL	CA-C-N	5.23	128.26	120.31
1	b	190	VAL	C-N-CA	5.23	128.26	120.31
1	f	97	GLN	CA-C-N	5.23	127.26	120.56
1	f	97	GLN	C-N-CA	5.23	127.26	120.56
2	1	123	TYR	N-CA-C	-5.23	101.63	109.95
2	j	151	LEU	CA-C-O	5.23	126.10	120.55
1	E	171	VAL	O-C-N	-5.23	114.90	122.12
1	F	185	PHE	CA-C-O	-5.23	115.01	120.55
2	4	211	PHE	O-C-N	-5.23	115.63	122.59
1	A	236	ALA	CA-C-N	5.23	127.81	120.28
1	A	236	ALA	C-N-CA	5.23	127.81	120.28
3	M	170	VAL	O-C-N	5.23	127.34	121.90
1	B	175	PHE	CA-C-N	5.23	127.81	120.28
1	B	175	PHE	C-N-CA	5.23	127.81	120.28
1	C	218	ASP	CA-C-N	5.23	129.98	122.35
1	C	218	ASP	C-N-CA	5.23	129.98	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	171	VAL	CA-C-O	5.23	126.12	120.47
1	G	93	ARG	O-C-N	5.23	128.11	122.15
1	G	215	LYS	N-CA-CB	-5.23	101.89	110.41
2	1	199	TYR	CA-C-O	-5.23	115.31	120.70
2	5	184	ASP	O-C-N	-5.23	117.26	123.22
3	L	303	PHE	N-CA-CB	5.23	119.32	110.49
1	b	205	VAL	O-C-N	-5.23	116.92	121.57
2	i	155	PHE	CA-C-O	-5.23	114.80	120.81
1	B	178	GLU	CA-C-N	5.22	128.52	121.05
1	B	178	GLU	C-N-CA	5.22	128.52	121.05
1	c	175	PHE	CB-CG-CD2	-5.22	111.82	120.70
1	F	125	GLN	CG-CD-NE2	-5.22	108.56	116.40
2	k	155	PHE	CA-CB-CG	-5.22	108.58	113.80
2	5	199	TYR	CA-CB-CG	-5.22	104.49	113.90
3	K	54	GLU	CA-C-O	-5.22	115.01	120.55
1	B	183	LEU	O-C-N	-5.22	117.06	122.96
1	E	190	VAL	CA-CB-CG1	5.22	119.28	110.40
2	1	80	ARG	NE-CZ-NH2	5.22	123.90	119.20
2	1	108	VAL	N-CA-C	-5.22	100.35	108.81
3	H	263	ARG	CA-C-N	5.22	127.70	120.29
3	H	263	ARG	C-N-CA	5.22	127.70	120.29
3	L	47	GLU	N-CA-C	5.22	116.66	111.07
1	c	219	ARG	N-CA-CB	5.22	119.31	110.49
1	E	135	SER	N-CA-C	-5.22	100.89	109.40
1	g	217	ASP	CA-CB-CG	5.22	117.82	112.60
3	H	338	GLU	N-CA-C	-5.22	105.76	111.82
3	I	143	ILE	N-CA-C	-5.22	106.35	111.88
3	K	173	GLU	CA-C-O	-5.22	115.11	119.76
1	a	55	GLY	O-C-N	5.22	127.84	122.88
1	e	73	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
2	h	136	ASP	CA-C-N	5.22	131.37	121.97
2	h	136	ASP	C-N-CA	5.22	131.37	121.97
2	l	210	LYS	O-C-N	-5.22	115.58	122.42
1	B	56	SER	CA-C-O	5.22	127.94	121.94
2	n	46	TYR	N-CA-C	-5.22	101.26	109.50
3	I	246	ILE	N-CA-C	-5.22	105.45	110.72
3	J	139	SER	N-CA-C	-5.22	102.44	109.95
1	C	84	ASP	CA-CB-CG	-5.22	107.38	112.60
1	D	119	PHE	CA-C-N	5.22	127.22	120.44
1	D	119	PHE	C-N-CA	5.22	127.22	120.44
1	f	195	ALA	CA-C-N	5.22	127.54	120.44
1	f	195	ALA	C-N-CA	5.22	127.54	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	94	THR	CB-CA-C	-5.22	102.13	110.79
2	k	176	MET	N-CA-C	-5.22	106.18	112.54
2	m	91	ALA	CA-C-N	5.22	127.27	120.28
2	m	91	ALA	C-N-CA	5.22	127.27	120.28
2	m	104	PHE	N-CA-CB	5.22	116.58	111.10
3	I	339	LEU	CA-C-N	5.22	127.27	120.28
3	I	339	LEU	C-N-CA	5.22	127.27	120.28
1	c	130	ARG	N-CA-C	-5.21	103.57	110.40
1	G	121	GLN	CA-C-O	5.21	125.83	119.05
2	k	170	ARG	CA-C-N	5.21	127.70	120.29
2	k	170	ARG	C-N-CA	5.21	127.70	120.29
3	H	139	SER	N-CA-C	-5.21	101.88	108.45
3	K	87	PHE	CA-C-O	-5.21	115.15	120.99
3	M	180	LEU	N-CA-C	-5.21	100.68	109.07
2	l	69	ILE	N-CA-C	5.21	115.98	110.72
2	7	134	GLU	N-CA-C	-5.21	100.20	109.06
1	C	130	ARG	O-C-N	5.21	127.27	121.43
2	k	89	ALA	N-CA-CB	5.21	117.63	110.07
2	n	151	LEU	N-CA-C	5.21	116.64	111.07
3	H	130	PHE	N-CA-CB	5.21	119.80	111.20
1	F	16	SER	N-CA-C	-5.21	102.45	110.58
1	d	195	ALA	CA-C-N	5.21	127.26	120.28
1	d	195	ALA	C-N-CA	5.21	127.26	120.28
1	F	16	SER	CA-C-O	-5.21	116.45	121.08
3	I	57	ARG	NE-CZ-NH1	-5.21	116.29	121.50
3	L	119	LEU	O-C-N	-5.21	116.07	121.28
1	e	241	ARG	NE-CZ-NH1	-5.21	116.30	121.50
2	h	99	ASN	N-CA-CB	5.20	118.34	110.28
2	3	144	SER	N-CA-C	5.20	116.95	111.28
2	n	65	PHE	N-CA-C	-5.20	105.52	111.14
1	A	114	LYS	CB-CA-C	-5.20	102.15	110.79
1	B	83	ALA	CA-C-N	5.20	128.22	120.31
1	B	83	ALA	C-N-CA	5.20	128.22	120.31
2	6	201	PRO	CA-C-N	5.20	128.02	120.79
2	6	201	PRO	C-N-CA	5.20	128.02	120.79
2	7	179	ASP	CA-CB-CG	5.20	117.80	112.60
3	I	168	ALA	CB-CA-C	-5.20	102.01	110.85
1	A	121	GLN	N-CA-C	-5.20	105.69	111.36
1	b	25	GLU	N-CA-C	5.20	116.76	111.14
1	E	70	ILE	CB-CA-C	-5.20	107.29	111.71
1	F	101	LEU	O-C-N	-5.20	116.71	122.07
2	l	79	ILE	CA-C-O	-5.20	115.28	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2	212	ARG	N-CA-CB	5.20	119.28	110.49
2	n	68	ARG	NE-CZ-NH1	5.20	126.70	121.50
2	n	138	VAL	O-C-N	5.20	128.08	122.67
2	n	170	ARG	CA-C-O	5.20	125.98	120.10
3	J	18	GLU	N-CA-C	-5.20	105.69	111.36
1	A	38	ILE	CA-CB-CG1	5.20	119.24	110.40
1	g	28	ARG	CA-C-N	5.20	127.25	120.28
1	g	28	ARG	C-N-CA	5.20	127.25	120.28
3	L	194	ALA	CA-C-N	5.20	127.11	120.56
3	L	194	ALA	C-N-CA	5.20	127.11	120.56
3	J	375	PHE	CA-C-O	-5.20	114.91	120.42
1	G	182	ASP	N-CA-C	-5.20	105.61	112.94
1	B	99	ASN	CA-C-N	5.20	127.24	120.28
1	B	99	ASN	C-N-CA	5.20	127.24	120.28
2	2	203	GLU	N-CA-C	5.20	116.94	111.28
2	4	125	ILE	N-CA-CB	5.20	118.58	111.41
2	n	36	PHE	CA-C-O	-5.20	115.17	120.99
3	K	363	ILE	N-CA-C	5.19	115.92	110.62
3	M	350	ASP	N-CA-CB	5.19	117.85	110.16
1	c	151	ASP	N-CA-C	-5.19	102.61	110.50
1	e	175	PHE	O-C-N	-5.19	114.85	122.43
2	h	169	VAL	N-CA-CB	5.19	117.60	110.54
2	l	25	MET	CA-C-O	-5.19	115.04	121.06
2	n	42	ALA	CA-C-O	-5.19	114.95	120.40
3	H	62	PRO	O-C-N	5.19	129.65	122.64
2	2	156	THR	N-CA-C	-5.19	103.55	108.22
3	I	317	ARG	NH1-CZ-NH2	-5.19	112.55	119.30
1	D	221	PHE	CA-C-O	5.19	126.14	120.95
2	i	76	LEU	CA-C-N	5.19	127.23	120.28
2	i	76	LEU	C-N-CA	5.19	127.23	120.28
2	3	103	TYR	N-CA-C	-5.19	105.52	111.07
2	k	60	VAL	O-C-N	5.19	126.99	121.91
2	5	56	THR	CA-CB-OG1	5.19	117.38	109.60
3	I	173	GLU	CA-C-O	-5.19	115.11	120.87
3	J	366	GLU	CA-C-N	5.19	130.45	122.93
3	J	366	GLU	C-N-CA	5.19	130.45	122.93
1	b	62	ASP	N-CA-C	-5.18	104.94	113.50
1	C	66	LYS	CB-CG-CD	5.18	123.22	111.30
1	c	83	ALA	CA-C-N	5.18	127.65	120.29
1	c	83	ALA	C-N-CA	5.18	127.65	120.29
2	5	18	VAL	CA-CB-CG1	-5.18	101.59	110.40
3	L	130	PHE	CA-C-N	5.18	131.03	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	130	PHE	C-N-CA	5.18	131.03	121.70
3	L	156	ALA	O-C-N	5.18	127.41	122.07
3	M	337	LYS	O-C-N	5.18	128.06	122.15
3	J	70	ASP	CA-C-O	-5.18	115.90	121.45
1	F	8	TYR	O-C-N	5.18	129.08	122.65
1	g	35	ALA	CA-C-N	5.18	128.57	120.75
1	g	35	ALA	C-N-CA	5.18	128.57	120.75
3	K	44	TYR	N-CA-CB	5.18	117.83	110.16
2	3	161	VAL	CA-C-N	5.18	127.65	120.29
2	3	161	VAL	C-N-CA	5.18	127.65	120.29
3	H	57	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	A	100	ARG	NE-CZ-NH1	-5.18	116.32	121.50
1	E	220	THR	CA-C-N	5.18	131.43	121.54
1	E	220	THR	C-N-CA	5.18	131.43	121.54
1	e	106	PRO	CA-C-O	-5.18	115.35	121.67
2	3	122	ILE	O-C-N	5.18	128.57	123.18
2	7	55	THR	N-CA-CB	5.18	118.73	110.65
3	L	29	ARG	NE-CZ-NH2	5.18	123.86	119.20
3	M	158	GLU	N-CA-C	5.18	116.92	111.28
3	J	265	MET	CG-SD-CE	-5.18	89.51	100.90
1	D	37	ALA	N-CA-C	-5.18	100.01	108.76
1	D	180	ARG	CD-NE-CZ	-5.18	117.15	124.40
1	D	190	VAL	CA-C-N	5.18	127.64	120.29
1	D	190	VAL	C-N-CA	5.18	127.64	120.29
1	f	111	GLU	N-CA-CB	5.18	118.52	110.44
2	1	158	GLU	CA-C-N	5.18	127.44	120.50
2	1	158	GLU	C-N-CA	5.18	127.44	120.50
2	j	62	ASP	CA-C-N	5.18	127.22	120.28
2	j	62	ASP	C-N-CA	5.18	127.22	120.28
2	j	194	ASP	N-CA-C	-5.18	106.50	114.16
2	6	134	GLU	N-CA-CB	5.18	119.31	110.71
2	6	141	GLY	CA-C-O	-5.18	116.57	122.78
1	C	70	ILE	CA-CB-CG2	-5.17	101.70	110.50
2	n	62	ASP	CA-C-N	5.17	127.22	120.28
2	n	62	ASP	C-N-CA	5.17	127.22	120.28
3	H	87	PHE	O-C-N	-5.17	116.42	123.15
2	5	99	ASN	O-C-N	-5.17	115.40	122.33
1	E	73	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	F	171	VAL	CA-C-N	5.17	127.21	120.28
1	F	171	VAL	C-N-CA	5.17	127.21	120.28
1	g	86	ARG	N-CA-C	5.17	116.60	111.07
2	h	129	GLY	N-CA-C	-5.17	107.91	115.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	i	118	GLU	CB-CG-CD	-5.17	103.81	112.60
2	4	104	PHE	N-CA-CB	5.17	117.43	110.14
3	H	371	THR	CA-C-N	5.17	129.47	120.68
3	H	371	THR	C-N-CA	5.17	129.47	120.68
3	I	321	PHE	CB-CA-C	-5.17	102.21	110.79
3	K	223	VAL	CA-CB-CG1	-5.17	101.61	110.40
1	d	137	LEU	CB-CA-C	-5.17	101.58	110.16
2	7	19	CYS	CA-C-O	-5.17	115.32	121.89
2	7	53	ALA	N-CA-C	-5.17	101.43	109.24
3	M	381	LYS	CG-CD-CE	5.17	123.19	111.30
1	a	104	ASP	N-CA-C	-5.17	104.30	111.28
1	B	240	ILE	N-CA-CB	5.17	117.57	110.54
2	6	140	THR	N-CA-CB	5.17	120.29	111.50
1	E	132	PHE	CA-C-O	-5.17	116.07	121.55
1	G	241	ARG	CA-C-O	5.17	126.03	120.55
1	f	159	TYR	CA-C-N	5.17	129.34	120.71
1	f	159	TYR	C-N-CA	5.17	129.34	120.71
2	5	64	GLN	CG-CD-NE2	-5.17	108.65	116.40
1	B	32	LYS	CA-C-N	5.16	131.04	122.73
1	B	32	LYS	C-N-CA	5.16	131.04	122.73
1	d	173	GLU	CA-C-O	-5.16	115.08	120.55
1	e	238	GLU	CA-C-N	5.16	127.20	120.28
1	e	238	GLU	C-N-CA	5.16	127.20	120.28
1	F	233	VAL	CA-C-N	5.16	127.20	120.28
1	F	233	VAL	C-N-CA	5.16	127.20	120.28
2	h	91	ALA	O-C-N	5.16	128.04	122.15
2	k	54	MET	N-CA-C	-5.16	100.03	108.76
1	e	219	ARG	NE-CZ-NH1	-5.16	116.34	121.50
2	n	182	SER	O-C-N	5.16	128.02	122.34
3	I	173	GLU	CB-CG-CD	-5.16	103.83	112.60
3	J	99	GLU	N-CA-C	-5.16	106.98	113.28
1	d	107	ILE	CA-CB-CG1	5.16	119.17	110.40
1	F	187	ASP	CB-CA-C	-5.16	102.08	110.85
2	3	25	MET	N-CA-C	-5.16	100.89	108.99
2	6	153	ASP	CA-CB-CG	5.16	117.76	112.60
2	m	85	PRO	N-CA-C	5.16	119.31	111.11
2	7	131	ALA	N-CA-C	-5.16	99.19	108.48
3	I	41	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	d	105	GLU	O-C-N	-5.16	116.67	121.72
1	F	179	TYR	N-CA-CB	5.16	118.28	109.87
2	4	162	ASP	N-CA-CB	5.16	117.70	110.12
2	k	119	GLY	CA-C-N	5.16	131.09	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	k	119	GLY	C-N-CA	5.16	131.09	122.73
2	m	139	ALA	CA-C-N	5.16	130.68	122.74
2	m	139	ALA	C-N-CA	5.16	130.68	122.74
3	I	271	GLU	CA-C-O	-5.16	114.04	119.97
1	a	226	PRO	CA-C-N	5.16	130.48	122.49
1	a	226	PRO	C-N-CA	5.16	130.48	122.49
1	b	15	PHE	N-CA-C	-5.16	101.35	109.50
2	1	77	TYR	N-CA-C	5.16	116.98	111.36
1	d	99	ASN	CA-CB-CG	-5.16	107.44	112.60
1	E	171	VAL	N-CA-C	-5.16	105.33	112.50
1	e	95	GLU	CA-C-N	5.16	127.14	120.44
1	e	95	GLU	C-N-CA	5.16	127.14	120.44
1	G	150	THR	CA-C-O	5.16	126.00	120.38
1	g	121	GLN	N-CA-C	5.16	117.64	111.71
2	i	114	GLY	N-CA-C	-5.16	103.62	110.58
2	m	129	GLY	O-C-N	-5.16	117.23	122.70
3	H	382	VAL	CB-CA-C	5.16	119.33	112.22
3	K	181	TYR	N-CA-C	-5.16	101.46	109.14
3	L	42	ILE	N-CA-C	-5.16	105.36	110.62
3	M	50	ARG	N-CA-C	5.16	116.98	111.36
1	d	104	ASP	N-CA-CB	5.15	120.55	112.46
1	F	151	ASP	N-CA-C	-5.15	103.65	110.40
1	f	122	GLN	CB-CA-C	-5.15	102.23	110.79
2	k	190	LYS	CG-CD-CE	5.15	123.15	111.30
2	6	36	PHE	N-CA-C	-5.15	100.77	109.07
1	B	13	THR	N-CA-C	-5.15	106.96	114.12
1	B	56	SER	N-CA-C	-5.15	103.88	110.53
3	H	26	LEU	N-CA-C	5.15	117.29	111.11
1	A	7	GLY	CA-C-N	5.15	130.97	121.70
1	A	7	GLY	C-N-CA	5.15	130.97	121.70
1	A	73	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	c	198	LEU	CB-CA-C	-5.15	100.78	110.67
3	J	26	LEU	CA-C-N	5.15	128.14	120.31
3	J	26	LEU	C-N-CA	5.15	128.14	120.31
2	l	109	GLN	N-CA-C	-5.15	100.51	108.90
1	C	220	THR	CA-C-N	5.15	131.37	121.54
1	C	220	THR	C-N-CA	5.15	131.37	121.54
1	c	172	THR	N-CA-CB	5.15	117.78	110.16
1	e	241	ARG	NE-CZ-NH2	5.15	123.83	119.20
2	j	63	ALA	CB-CA-C	-5.15	102.25	110.79
2	j	155	PHE	CA-CB-CG	-5.15	108.65	113.80
2	5	39	SER	N-CA-C	-5.15	101.29	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7	41	ALA	CA-C-O	5.15	124.48	119.08
1	D	231	PRO	CA-C-N	5.15	128.13	120.31
1	D	231	PRO	C-N-CA	5.15	128.13	120.31
1	d	211	VAL	CA-C-O	5.15	125.81	120.36
2	3	189	VAL	CA-C-N	5.15	130.25	122.99
2	3	189	VAL	C-N-CA	5.15	130.25	122.99
2	7	192	THR	CB-CA-C	5.15	118.60	109.65
3	L	135	LYS	CA-C-N	5.15	125.05	119.85
3	L	135	LYS	C-N-CA	5.15	125.05	119.85
3	M	273	ASP	CA-CB-CG	5.15	117.75	112.60
1	F	192	GLY	CA-C-O	-5.14	114.59	120.09
3	I	250	ARG	NH1-CZ-NH2	-5.14	112.61	119.30
2	4	65	PHE	CA-CB-CG	-5.14	108.66	113.80
2	k	194	ASP	CA-CB-CG	-5.14	107.46	112.60
1	g	108	THR	N-CA-C	-5.14	103.14	110.59
3	L	376	THR	CA-C-O	5.14	126.00	120.55
3	L	376	THR	CB-CA-C	-5.14	102.26	110.79
3	J	19	ASP	CB-CA-C	-5.14	102.11	110.85
1	a	20	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	b	112	LEU	CA-C-N	5.14	127.59	120.29
1	b	112	LEU	C-N-CA	5.14	127.59	120.29
1	C	25	GLU	CA-C-N	5.14	129.42	120.68
1	C	25	GLU	C-N-CA	5.14	129.42	120.68
1	C	106	PRO	CA-C-O	-5.14	115.72	121.32
1	e	161	ALA	N-CA-C	-5.14	99.85	110.80
2	i	161	VAL	O-C-N	5.14	127.61	121.80
3	K	349	ALA	N-CA-CB	5.14	118.25	110.28
3	L	397	PHE	N-CA-C	-5.14	107.04	113.72
3	M	276	ASP	CB-CA-C	-5.14	104.28	110.81
1	c	108	THR	N-CA-C	-5.14	102.88	110.48
1	d	178	GLU	CB-CG-CD	5.14	121.33	112.60
1	g	118	ASP	N-CA-C	5.14	116.96	111.36
2	3	30	ARG	N-CA-C	-5.14	100.33	109.06
2	k	211	PHE	CA-C-O	-5.14	116.61	122.01
3	K	317	ARG	N-CA-C	-5.14	105.57	111.07
3	J	176	LYS	N-CA-C	-5.14	106.25	112.88
1	a	32	LYS	CA-C-O	5.14	125.86	120.42
1	b	231	PRO	O-C-N	-5.14	115.33	122.27
1	c	219	ARG	NE-CZ-NH1	-5.14	116.36	121.50
2	k	143	GLY	CA-C-N	5.14	127.58	120.29
2	k	143	GLY	C-N-CA	5.14	127.58	120.29
3	M	366	GLU	N-CA-CB	5.14	119.17	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	153	SER	O-C-N	-5.13	116.78	122.07
2	5	87	VAL	CA-C-N	5.13	127.16	120.28
2	5	87	VAL	C-N-CA	5.13	127.16	120.28
1	F	162	THR	CA-C-O	5.13	126.82	121.38
1	G	33	ARG	N-CA-CB	5.13	118.12	110.22
2	7	79	ILE	CA-C-O	-5.13	115.41	120.85
2	4	44	LYS	CA-C-N	5.13	129.86	123.14
2	4	44	LYS	C-N-CA	5.13	129.86	123.14
3	I	67	VAL	N-CA-C	-5.13	100.81	108.46
2	2	44	LYS	CG-CD-CE	5.13	123.10	111.30
2	3	154	ARG	NE-CZ-NH2	5.13	123.82	119.20
3	K	36	PHE	N-CA-CB	5.13	117.66	110.12
1	A	20	ARG	NH1-CZ-NH2	5.13	125.97	119.30
1	A	58	LEU	O-C-N	5.13	127.63	122.09
1	B	15	PHE	CA-CB-CG	-5.13	108.67	113.80
1	b	222	LYS	N-CA-C	-5.13	101.40	109.50
1	C	94	ILE	N-CA-C	-5.13	105.54	110.72
2	i	84	LYS	CA-C-O	-5.13	114.67	119.80
2	l	46	TYR	N-CA-C	-5.13	101.40	109.50
2	l	124	SER	O-C-N	-5.13	116.70	123.21
2	6	203	GLU	CB-CA-C	-5.13	102.28	110.79
2	7	182	SER	CA-C-O	-5.13	114.79	120.38
3	K	216	ILE	O-C-N	-5.13	117.12	122.81
2	i	89	ALA	N-CA-C	5.12	116.67	111.14
2	5	200	SER	N-CA-CB	5.12	119.49	110.37
3	M	229	LEU	CA-C-N	5.12	127.15	120.28
3	M	229	LEU	C-N-CA	5.12	127.15	120.28
3	M	297	ILE	O-C-N	5.12	127.43	122.05
1	E	180	ARG	N-CA-C	-5.12	101.50	109.24
1	F	84	ASP	N-CA-CB	5.12	117.65	110.12
2	h	109	GLN	CA-C-O	5.12	125.78	120.30
2	i	57	ALA	N-CA-C	-5.12	100.55	108.90
2	7	189	VAL	CA-C-O	5.12	126.41	120.67
3	I	255	THR	N-CA-C	-5.12	101.50	109.24
3	I	374	ASP	CA-CB-CG	-5.12	107.48	112.60
3	L	109	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	E	33	ARG	NH1-CZ-NH2	-5.12	112.64	119.30
1	e	219	ARG	N-CA-CB	5.12	120.44	112.25
3	L	174	PRO	CA-C-O	-5.12	113.14	120.56
3	L	240	ILE	O-C-N	5.12	127.42	122.30
1	g	79	SER	N-CA-C	-5.12	100.25	108.55
2	3	38	ALA	N-CA-C	-5.12	107.54	112.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	188	LYS	N-CA-C	-5.12	105.33	112.45
1	e	99	ASN	N-CA-C	-5.12	105.39	111.69
1	G	108	THR	CA-C-N	5.12	127.01	120.56
1	G	108	THR	C-N-CA	5.12	127.01	120.56
2	l	156	THR	N-CA-CB	5.12	120.15	110.42
2	i	13	THR	O-C-N	5.12	128.99	123.56
2	m	17	LEU	CA-C-N	5.12	128.72	121.66
2	m	17	LEU	C-N-CA	5.12	128.72	121.66
3	M	56	GLU	CA-C-O	5.12	125.86	119.97
3	M	360	MET	CA-C-N	5.12	127.14	120.28
3	M	360	MET	C-N-CA	5.12	127.14	120.28
1	B	155	ALA	N-CA-C	-5.12	101.06	109.40
3	H	203	PHE	CA-C-O	-5.12	115.22	120.54
1	c	99	ASN	CA-CB-CG	5.12	117.72	112.60
1	E	66	LYS	N-CA-C	-5.12	107.04	113.28
1	b	130	ARG	N-CA-CB	5.11	120.09	110.63
1	D	123	TYR	CA-CB-CG	-5.11	104.70	113.90
3	I	329	LYS	CB-CA-C	-5.11	109.18	116.34
3	M	66	GLY	CA-C-N	5.11	130.15	122.58
3	M	66	GLY	C-N-CA	5.11	130.15	122.58
2	m	94	THR	CA-C-N	5.11	128.08	120.31
2	m	94	THR	C-N-CA	5.11	128.08	120.31
1	b	214	VAL	N-CA-CB	5.11	119.66	111.23
1	c	73	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	e	242	GLU	CB-CA-C	-5.11	102.82	110.90
1	G	239	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
2	6	196	PHE	CA-CB-CG	-5.11	108.69	113.80
2	m	76	LEU	N-CA-C	-5.11	105.71	111.28
1	c	186	ASP	N-CA-C	5.11	116.93	111.36
1	a	216	VAL	N-CA-C	-5.11	105.88	113.39
1	D	124	THR	CA-C-O	5.11	125.96	120.70
1	e	218	ASP	CA-C-N	5.11	129.87	122.36
1	e	218	ASP	C-N-CA	5.11	129.87	122.36
2	5	140	THR	O-C-N	5.11	129.07	123.25
1	a	199	SER	N-CA-CB	5.11	117.41	110.01
1	b	126	TYR	CA-C-O	-5.11	115.23	121.05
1	E	126	TYR	CA-C-O	-5.11	116.00	121.56
1	e	54	VAL	CA-C-N	5.11	129.88	120.79
1	e	54	VAL	C-N-CA	5.11	129.88	120.79
2	h	212	ARG	CB-CG-CD	5.11	123.04	111.30
3	L	48	VAL	CA-C-N	5.11	127.08	120.44
3	L	48	VAL	C-N-CA	5.11	127.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	M	16	LEU	CA-C-N	5.11	127.12	120.28
3	M	16	LEU	C-N-CA	5.11	127.12	120.28
1	A	226	PRO	N-CA-C	5.10	120.47	113.84
1	C	187	ASP	CA-C-O	-5.10	115.14	120.55
1	g	231	PRO	CA-C-N	5.10	129.30	120.58
1	g	231	PRO	C-N-CA	5.10	129.30	120.58
2	3	99	ASN	CA-C-N	5.10	127.38	120.44
2	3	99	ASN	C-N-CA	5.10	127.38	120.44
3	K	72	LEU	N-CA-C	-5.10	101.44	109.50
3	J	300	PRO	CA-C-N	5.10	131.41	121.41
3	J	300	PRO	C-N-CA	5.10	131.41	121.41
1	b	52	LYS	CA-C-O	5.10	125.25	119.18
2	j	115	ILE	CA-CB-CG1	5.10	119.07	110.40
2	m	47	GLN	CA-C-N	5.10	128.73	120.82
2	m	47	GLN	C-N-CA	5.10	128.73	120.82
2	3	159	ILE	CA-C-N	5.10	127.06	120.64
2	3	159	ILE	C-N-CA	5.10	127.06	120.64
2	3	170	ARG	NE-CZ-NH1	-5.10	116.40	121.50
2	4	75	ASN	CA-C-N	5.10	127.11	120.28
2	4	75	ASN	C-N-CA	5.10	127.11	120.28
2	7	171	ALA	N-CA-C	5.10	116.65	111.14
3	H	228	GLN	O-C-N	-5.10	116.34	122.15
3	L	141	GLU	N-CA-C	-5.10	106.47	113.30
1	c	86	ARG	CD-NE-CZ	-5.10	117.26	124.40
1	D	23	GLN	CB-CA-C	-5.10	102.33	110.79
1	D	62	ASP	N-CA-C	-5.10	105.96	113.61
2	j	109	GLN	N-CA-C	-5.10	100.86	109.07
2	m	74	ALA	CA-C-O	-5.10	115.45	120.70
3	H	296	ALA	CA-C-N	5.10	127.66	120.42
3	H	296	ALA	C-N-CA	5.10	127.66	120.42
3	K	143	ILE	CA-CB-CG1	5.10	119.07	110.40
3	M	382	VAL	CA-CB-CG2	-5.10	101.73	110.40
1	d	181	ASP	O-C-N	5.10	129.26	122.43
2	1	140	THR	N-CA-C	-5.09	99.31	108.48
2	m	60	VAL	N-CA-CB	5.09	117.09	110.57
2	7	92	THR	CA-C-N	5.09	127.11	120.28
2	7	92	THR	C-N-CA	5.09	127.11	120.28
3	K	380	GLU	CB-CG-CD	-5.09	103.94	112.60
1	b	194	VAL	CB-CA-C	-5.09	105.45	111.97
1	D	97	GLN	N-CA-CB	5.09	118.84	110.39
1	d	227	GLU	N-CA-CB	5.09	118.06	110.22
1	g	120	LYS	CA-C-O	-5.09	115.02	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1	76	LEU	CA-C-O	5.09	125.95	120.55
3	M	55	VAL	CA-C-N	5.09	128.05	120.31
3	M	55	VAL	C-N-CA	5.09	128.05	120.31
2	1	20	LYS	CA-C-O	5.09	125.67	119.05
2	2	69	ILE	CB-CA-C	-5.09	105.45	111.97
2	i	105	PRO	N-CD-CG	5.09	110.84	103.20
2	l	83	ARG	O-C-N	-5.09	117.97	123.42
2	6	116	ASP	CA-CB-CG	-5.09	107.51	112.60
3	K	251	THR	N-CA-C	-5.09	100.88	109.07
1	E	39	GLY	N-CA-C	-5.09	102.56	111.46
3	M	45	GLU	CA-C-N	5.09	127.10	120.28
3	M	45	GLU	C-N-CA	5.09	127.10	120.28
1	E	242	GLU	N-CA-CB	5.09	117.69	110.16
1	f	46	VAL	N-CA-C	-5.09	100.88	108.46
3	I	235	PRO	N-CA-CB	5.09	108.20	102.60
3	K	44	TYR	N-CA-C	-5.09	105.81	111.36
3	K	215	TYR	O-C-N	-5.09	116.61	122.87
3	M	138	VAL	CB-CA-C	5.09	118.56	111.08
1	F	33	ARG	NE-CZ-NH2	-5.08	114.62	119.20
3	I	46	ARG	N-CA-C	-5.08	105.74	111.28
3	J	21	TYR	N-CA-C	5.08	116.82	111.28
1	d	187	ASP	CA-C-N	5.08	127.51	120.29
1	d	187	ASP	C-N-CA	5.08	127.51	120.29
2	m	13	THR	CA-CB-OG1	5.08	117.22	109.60
1	A	238	GLU	N-CA-CB	5.08	117.59	110.12
2	k	99	ASN	CB-CA-C	5.08	119.49	110.85
2	5	91	ALA	O-C-N	5.08	127.30	122.07
2	7	80	ARG	CA-C-O	-5.08	115.48	120.82
2	n	116	ASP	CA-CB-CG	-5.08	107.52	112.60
3	J	93	GLN	CA-C-N	5.08	130.37	122.49
3	J	93	GLN	C-N-CA	5.08	130.37	122.49
1	b	114	LYS	O-C-N	5.08	127.58	122.09
1	A	15	PHE	CB-CA-C	-5.08	101.37	109.75
1	B	190	VAL	CA-C-N	5.08	127.09	120.28
1	B	190	VAL	C-N-CA	5.08	127.09	120.28
1	C	28	ARG	CA-C-O	5.08	124.94	119.15
1	C	71	ASP	CA-CB-CG	-5.08	107.52	112.60
2	3	150	VAL	CA-C-N	5.08	127.09	120.28
2	3	150	VAL	C-N-CA	5.08	127.09	120.28
2	6	84	LYS	CB-CG-CD	5.08	122.98	111.30
3	J	203	PHE	N-CA-C	-5.08	99.52	108.20
2	4	18	VAL	CB-CA-C	-5.08	103.55	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5	95	SER	CA-C-N	5.08	127.34	120.44
2	5	95	SER	C-N-CA	5.08	127.34	120.44
2	m	95	SER	CA-C-O	-5.08	114.13	119.97
2	7	202	GLU	N-CA-CB	5.08	117.32	109.91
1	A	71	ASP	O-C-N	-5.08	115.84	122.59
1	D	243	LEU	CA-C-O	-5.08	113.14	119.18
1	F	125	GLN	CA-C-O	-5.08	115.67	120.90
2	k	173	TYR	O-C-N	5.08	128.51	122.27
2	7	123	TYR	CA-C-N	-5.08	115.72	122.72
2	7	123	TYR	C-N-CA	-5.08	115.72	122.72
3	L	383	LEU	N-CA-C	5.08	116.62	111.14
1	E	28	ARG	CA-C-N	5.07	128.02	120.31
1	E	28	ARG	C-N-CA	5.07	128.02	120.31
1	f	240	ILE	CA-C-O	-5.07	115.79	121.17
2	4	200	SER	CA-C-N	5.07	126.18	119.84
2	4	200	SER	C-N-CA	5.07	126.18	119.84
2	7	126	ASP	N-CA-CB	5.07	117.13	109.82
1	F	54	VAL	CA-C-N	5.07	131.35	121.41
1	F	54	VAL	C-N-CA	5.07	131.35	121.41
2	4	24	VAL	CA-CB-CG2	-5.07	101.78	110.40
1	C	44	GLU	CB-CG-CD	-5.07	103.98	112.60
1	C	217	ASP	CA-C-O	-5.07	112.62	119.11
2	j	142	SER	CA-C-O	5.07	124.72	119.14
2	7	147	ALA	CB-CA-C	-5.07	102.92	110.88
1	A	225	SER	CA-CB-OG	5.07	121.24	111.10
1	a	65	GLU	N-CA-C	-5.07	101.43	109.59
2	l	163	GLU	CA-C-N	5.07	127.49	120.29
2	l	163	GLU	C-N-CA	5.07	127.49	120.29
2	l	166	GLU	CA-C-N	5.07	127.49	120.29
2	l	166	GLU	C-N-CA	5.07	127.49	120.29
2	6	123	TYR	CB-CA-C	-5.07	100.53	109.70
2	6	150	VAL	CA-CB-CG1	5.07	119.02	110.40
2	m	192	THR	O-C-N	-5.07	116.85	122.07
3	I	259	ARG	NE-CZ-NH1	5.07	126.57	121.50
3	I	276	ASP	N-CA-C	-5.07	103.80	110.39
2	1	86	THR	CA-C-N	-5.07	111.99	120.30
2	1	86	THR	C-N-CA	-5.07	111.99	120.30
2	4	36	PHE	CB-CG-CD2	5.07	129.32	120.70
2	k	25	MET	N-CA-C	-5.07	101.59	109.14
2	7	109	GLN	CA-C-O	5.07	125.95	120.43
2	n	200	SER	N-CA-CB	5.07	119.39	110.37
3	M	226	VAL	CA-C-O	-5.07	115.68	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	212	VAL	O-C-N	5.07	128.90	122.57
1	b	210	GLU	N-CA-C	-5.07	101.90	109.95
2	k	107	LEU	N-CA-C	-5.07	99.03	107.99
2	7	71	LYS	CB-CA-C	-5.07	102.93	110.88
1	f	50	ALA	O-C-N	5.06	129.46	123.33
3	H	325	THR	O-C-N	5.06	128.15	122.22
1	C	215	LYS	N-CA-CB	5.06	118.66	110.41
2	i	153	ASP	O-C-N	-5.06	116.04	122.27
2	4	29	LYS	O-C-N	-5.06	117.55	123.27
2	l	75	ASN	CA-C-N	5.06	127.06	120.28
2	l	75	ASN	C-N-CA	5.06	127.06	120.28
2	6	45	ILE	N-CA-C	-5.06	100.96	108.45
3	I	38	GLU	N-CA-C	5.06	116.80	111.28
2	i	34	GLY	CA-C-N	5.06	130.88	122.73
2	i	34	GLY	C-N-CA	5.06	130.88	122.73
2	k	193	GLU	N-CA-CB	5.06	119.04	110.49
1	E	19	GLY	N-CA-C	-5.06	108.30	115.43
2	k	129	GLY	O-C-N	-5.06	116.51	122.38
3	H	223	VAL	N-CA-C	-5.06	105.61	110.72
3	I	322	LYS	CB-CA-C	-5.06	102.39	110.79
3	M	299	ARG	NE-CZ-NH1	-5.06	116.44	121.50
1	c	213	TYR	CA-C-O	5.06	126.69	121.28
1	E	240	ILE	CB-CA-C	-5.06	105.31	112.14
2	2	168	ALA	CA-C-N	5.06	127.60	120.42
2	2	168	ALA	C-N-CA	5.06	127.60	120.42
2	6	80	ARG	N-CA-CB	-5.06	102.69	110.12
1	C	243	LEU	CA-C-N	5.06	130.87	122.73
1	C	243	LEU	C-N-CA	5.06	130.87	122.73
1	E	174	PHE	CB-CG-CD2	-5.06	112.10	120.70
1	E	195	ALA	CB-CA-C	-5.06	102.25	110.85
2	1	82	GLU	CB-CA-C	5.06	119.70	111.26
3	L	215	TYR	CB-CG-CD2	5.06	128.38	120.80
1	f	52	LYS	CA-C-N	5.05	128.03	120.90
1	f	52	LYS	C-N-CA	5.05	128.03	120.90
1	G	105	GLU	O-C-N	-5.05	116.77	121.72
1	g	229	LEU	CA-C-N	5.05	129.56	121.62
1	g	229	LEU	C-N-CA	5.05	129.56	121.62
2	j	69	ILE	CA-C-N	5.05	127.60	120.42
2	j	69	ILE	C-N-CA	5.05	127.60	120.42
3	I	18	GLU	CA-CB-CG	-5.05	103.99	114.10
3	L	187	GLY	N-CA-C	-5.05	101.20	113.18
3	M	61	PRO	CB-CA-C	5.05	117.08	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	92	ALA	CB-CA-C	-5.05	102.41	110.79
1	d	234	GLU	CA-C-O	-5.05	114.39	120.10
2	l	162	ASP	O-C-N	-5.05	116.77	122.12
3	K	169	GLU	N-CA-CB	5.05	117.54	110.12
3	M	71	ILE	CA-CB-CG2	5.05	119.09	110.50
2	i	157	PRO	CA-C-N	5.05	130.15	122.37
2	i	157	PRO	C-N-CA	5.05	130.15	122.37
2	m	43	LYS	O-C-N	5.05	129.22	123.31
2	m	99	ASN	OD1-CG-ND2	5.05	127.65	122.60
3	I	352	LYS	CA-C-N	5.05	127.98	120.31
3	I	352	LYS	C-N-CA	5.05	127.98	120.31
3	L	296	ALA	CA-C-N	-5.05	115.80	122.16
3	L	296	ALA	C-N-CA	-5.05	115.80	122.16
3	J	39	SER	CA-C-O	-5.05	115.50	120.70
2	3	65	PHE	CA-C-O	5.05	125.90	120.70
2	n	38	ALA	N-CA-CB	5.05	117.72	110.20
3	H	65	VAL	N-CA-CB	5.05	118.94	110.86
3	K	20	TYR	CB-CG-CD2	-5.05	113.23	120.80
3	J	384	LYS	N-CA-C	-5.05	105.78	111.28
1	c	51	ASP	CA-C-N	5.05	130.15	122.23
1	c	51	ASP	C-N-CA	5.05	130.15	122.23
1	E	100	ARG	CA-C-O	5.05	125.77	119.97
1	E	202	SER	N-CA-C	-5.05	101.44	108.96
1	e	151	ASP	CA-C-N	5.05	124.54	119.19
1	e	151	ASP	C-N-CA	5.05	124.54	119.19
2	l	81	ARG	O-C-N	-5.05	115.73	122.49
2	i	62	ASP	CA-C-N	5.05	127.04	120.28
2	i	62	ASP	C-N-CA	5.05	127.04	120.28
2	j	63	ALA	N-CA-CB	5.05	117.54	110.12
2	n	119	GLY	CA-C-N	5.05	130.51	122.94
2	n	119	GLY	C-N-CA	5.05	130.51	122.94
3	H	27	TYR	CB-CA-C	-5.05	102.27	110.85
3	K	258	ASP	CA-CB-CG	5.05	117.65	112.60
3	M	109	ASN	CA-C-N	5.05	130.38	120.99
3	M	109	ASN	C-N-CA	5.05	130.38	120.99
2	4	72	ILE	N-CA-C	5.04	115.77	110.62
3	L	79	VAL	CA-CB-CG2	-5.04	101.82	110.40
1	E	176	GLU	CA-C-N	5.04	129.20	120.58
1	E	176	GLU	C-N-CA	5.04	129.20	120.58
1	e	84	ASP	CB-CA-C	-5.04	102.28	110.85
1	f	239	ARG	N-CA-C	5.04	117.67	111.82
2	i	166	GLU	N-CA-CB	5.04	117.71	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	k	47	GLN	CA-C-N	5.04	128.62	120.55
2	k	47	GLN	C-N-CA	5.04	128.62	120.55
1	A	184	SER	N-CA-C	-5.04	103.28	110.59
2	h	128	ILE	CB-CA-C	5.04	117.45	111.20
2	k	23	VAL	CA-CB-CG1	5.04	118.97	110.40
3	I	138	VAL	N-CA-CB	5.04	117.24	111.39
3	K	203	PHE	N-CA-C	-5.04	100.24	108.76
2	j	159	ILE	N-CA-CB	5.04	117.04	110.99
3	I	138	VAL	CB-CA-C	-5.04	105.79	111.23
1	a	208	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	d	126	TYR	N-CA-CB	5.04	117.44	109.83
2	2	205	GLU	CA-C-O	5.04	125.84	120.20
2	j	96	ASN	CB-CA-C	-5.04	102.43	110.79
2	4	84	LYS	CB-CA-C	-5.04	101.55	109.11
2	5	21	ASP	N-CA-C	-5.04	106.70	114.16
2	7	52	MET	CG-SD-CE	-5.04	89.82	100.90
3	H	170	VAL	CB-CA-C	-5.04	105.27	112.22
3	I	355	CYS	O-C-N	-5.04	116.41	122.15
1	A	52	LYS	N-CA-C	-5.04	104.61	111.56
2	j	87	VAL	CA-CB-CG1	5.04	118.96	110.40
1	A	178	GLU	N-CA-C	5.04	117.88	111.69
1	F	82	VAL	CA-C-N	5.04	127.29	120.44
1	F	82	VAL	C-N-CA	5.04	127.29	120.44
1	g	75	CYS	CA-C-O	-5.04	115.87	121.51
2	h	106	TYR	N-CA-C	-5.04	101.08	108.99
2	l	112	ILE	O-C-N	-5.04	117.86	123.20
2	l	208	LEU	N-CA-C	-5.04	106.73	112.92
2	n	83	ARG	CD-NE-CZ	-5.04	117.35	124.40
3	M	361	PHE	CA-C-N	5.04	127.03	120.28
3	M	361	PHE	C-N-CA	5.04	127.03	120.28
3	J	224	ARG	CA-C-N	5.04	126.99	120.44
3	J	224	ARG	C-N-CA	5.04	126.99	120.44
3	J	397	PHE	N-CA-C	-5.04	101.03	109.24
1	E	121	GLN	CA-C-N	5.03	127.53	120.28
1	E	121	GLN	C-N-CA	5.03	127.53	120.28
1	G	78	THR	CA-C-O	5.03	127.15	121.51
2	1	153	ASP	N-CA-C	5.03	116.46	111.07
2	i	40	LYS	N-CA-C	-5.03	106.98	113.02
2	m	189	VAL	N-CA-C	-5.03	100.32	107.77
2	n	121	SER	CB-CA-C	-5.03	100.41	110.42
1	E	84	ASP	CA-C-N	5.03	127.27	120.38
1	E	84	ASP	C-N-CA	5.03	127.27	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	213	TYR	CA-C-N	5.03	130.40	122.70
1	F	213	TYR	C-N-CA	5.03	130.40	122.70
2	j	137	ILE	O-C-N	5.03	128.53	123.00
3	K	12	LYS	N-CA-CB	-5.03	102.73	110.12
3	K	317	ARG	CA-C-N	5.03	126.90	120.56
3	K	317	ARG	C-N-CA	5.03	126.90	120.56
1	a	236	ALA	N-CA-C	5.03	116.76	111.28
1	D	87	VAL	CA-C-N	5.03	127.02	120.28
1	D	87	VAL	C-N-CA	5.03	127.02	120.28
1	d	20	ARG	N-CA-C	-5.03	99.91	108.26
1	d	99	ASN	N-CA-CB	-5.03	102.72	110.16
2	h	64	GLN	N-CA-CB	5.03	117.60	110.16
3	K	337	LYS	CA-C-O	-5.03	115.09	120.42
3	L	259	ARG	CB-CA-C	-5.03	102.13	110.68
1	a	126	TYR	CB-CG-CD2	-5.03	113.26	120.80
1	C	234	GLU	CB-CA-C	-5.03	102.96	110.90
1	e	168	ARG	CA-C-N	5.03	127.78	120.79
1	e	168	ARG	C-N-CA	5.03	127.78	120.79
2	1	40	LYS	O-C-N	5.03	128.23	122.25
2	3	22	GLY	CA-C-O	-5.03	114.33	121.16
3	M	313	THR	CA-C-O	-5.03	116.35	122.03
1	G	9	ASP	CA-CB-CG	5.02	117.62	112.60
2	2	42	ALA	CB-CA-C	-5.02	100.63	109.62
3	H	385	LYS	CB-CA-C	-5.02	102.45	110.79
3	K	255	THR	CA-CB-OG1	5.02	117.14	109.60
3	J	389	ILE	N-CA-C	-5.02	98.03	108.88
1	C	238	GLU	CA-C-N	5.02	127.42	120.29
1	C	238	GLU	C-N-CA	5.02	127.42	120.29
1	c	135	SER	N-CA-C	-5.02	101.68	109.72
1	D	109	VAL	CB-CA-C	-5.02	105.36	112.14
1	D	196	MET	CG-SD-CE	-5.02	89.85	100.90
1	g	182	ASP	CB-CA-C	-5.02	102.07	110.56
2	m	106	TYR	O-C-N	5.02	126.52	121.85
2	n	51	ARG	NE-CZ-NH1	5.02	126.52	121.50
3	H	212	VAL	CA-CB-CG2	5.02	118.94	110.40
3	I	25	GLU	CB-CA-C	-5.02	102.31	110.85
3	L	313	THR	CA-C-N	5.02	126.97	120.44
3	L	313	THR	C-N-CA	5.02	126.97	120.44
3	M	102	PRO	CA-C-N	5.02	130.06	121.07
3	M	102	PRO	C-N-CA	5.02	130.06	121.07
1	e	97	GLN	O-C-N	-5.02	116.80	122.12
2	7	143	GLY	O-C-N	5.02	128.62	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	346	ALA	N-CA-C	-5.02	101.22	109.40
1	d	131	PRO	N-CD-CG	5.02	110.73	103.20
2	2	100	SER	CA-C-N	5.02	131.56	122.27
2	2	100	SER	C-N-CA	5.02	131.56	122.27
1	a	23	GLN	N-CA-CB	-5.02	102.75	110.12
1	a	183	LEU	O-C-N	5.02	129.17	122.95
1	f	69	LYS	O-C-N	-5.02	116.85	123.02
2	1	133	GLU	N-CA-C	-5.02	101.22	109.40
3	H	384	LYS	N-CA-C	-5.02	105.81	111.28
3	I	235	PRO	N-CD-CG	5.02	109.82	103.80
1	F	191	LEU	CA-C-O	5.02	125.74	119.97
1	F	220	THR	N-CA-C	-5.02	99.45	108.48
2	1	203	GLU	O-C-N	-5.01	116.80	122.12
2	h	103	TYR	CA-C-O	-5.01	114.43	120.10
2	n	65	PHE	CA-C-N	5.01	127.41	120.29
2	n	65	PHE	C-N-CA	5.01	127.41	120.29
3	H	126	MET	N-CA-C	-5.01	104.90	111.02
3	K	85	PRO	N-CD-CG	5.01	110.72	103.20
3	L	275	PHE	N-CA-CB	5.01	117.34	109.97
1	C	207	GLU	N-CA-C	-5.01	105.89	112.41
3	K	250	ARG	NE-CZ-NH2	-5.01	114.69	119.20
3	M	205	ARG	N-CA-CB	5.01	118.42	110.55
1	d	226	PRO	CA-C-N	5.01	127.50	120.28
1	d	226	PRO	C-N-CA	5.01	127.50	120.28
1	d	236	ALA	CA-C-N	5.01	127.00	120.28
1	d	236	ALA	C-N-CA	5.01	127.00	120.28
1	g	109	VAL	CA-C-N	5.01	127.41	120.29
1	g	109	VAL	C-N-CA	5.01	127.41	120.29
2	i	77	TYR	CA-C-O	5.01	125.86	120.55
2	j	202	GLU	CB-CG-CD	-5.01	104.08	112.60
2	7	83	ARG	N-CA-C	-5.01	100.12	110.80
3	I	195	VAL	N-CA-CB	-5.01	103.72	110.54
3	J	39	SER	CA-C-N	5.01	127.50	120.28
3	J	39	SER	C-N-CA	5.01	127.50	120.28
1	A	92	ALA	CA-C-N	5.01	126.99	120.28
1	A	92	ALA	C-N-CA	5.01	126.99	120.28
1	a	51	ASP	CA-C-O	-5.01	114.82	120.43
1	F	63	THR	CA-CB-OG1	5.01	117.11	109.60
1	G	115	LYS	CA-C-N	5.01	127.53	120.42
1	G	115	LYS	C-N-CA	5.01	127.53	120.42
1	g	73	HIS	CG-CD2-NE2	5.01	112.21	107.20
3	K	322	LYS	N-CA-C	5.01	116.74	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	36	THR	CA-CB-CG2	5.01	119.01	110.50
2	3	109	GLN	O-C-N	5.01	129.26	123.30
3	M	223	VAL	CA-C-O	5.01	126.16	120.95
1	a	125	GLN	N-CA-CB	5.01	117.54	110.13
1	a	170	ALA	CA-C-N	5.01	127.53	120.42
1	a	170	ALA	C-N-CA	5.01	127.53	120.42
1	b	63	THR	N-CA-C	-5.01	108.91	114.62
1	b	193	LEU	N-CA-C	5.01	116.82	111.36
1	G	186	ASP	CA-C-N	5.01	126.95	120.44
1	G	186	ASP	C-N-CA	5.01	126.95	120.44
2	i	146	THR	CA-C-N	5.01	126.99	120.28
2	i	146	THR	C-N-CA	5.01	126.99	120.28
2	j	189	VAL	CA-C-O	5.01	125.67	120.36
2	k	145	LEU	CA-C-N	5.01	127.40	120.29
2	k	145	LEU	C-N-CA	5.01	127.40	120.29
3	M	22	LYS	N-CA-CB	-5.01	102.75	110.16
3	H	267	GLN	OE1-CD-NE2	-5.00	117.59	122.60
3	H	318	ILE	CA-C-O	-5.00	115.84	121.05
1	E	64	ILE	CA-C-N	5.00	130.71	121.70
1	E	64	ILE	C-N-CA	5.00	130.71	121.70
1	e	242	GLU	CA-C-N	5.00	127.48	120.28
1	e	242	GLU	C-N-CA	5.00	127.48	120.28
1	f	26	TYR	CA-C-O	-5.00	115.25	120.55
2	2	87	VAL	O-C-N	5.00	126.72	121.87
2	k	136	ASP	O-C-N	-5.00	115.94	122.59
3	I	360	MET	N-CA-CB	5.00	117.57	110.16
1	C	92	ALA	N-CA-CB	5.00	117.92	110.22
1	E	93	ARG	CA-C-N	5.00	127.31	120.46
1	E	93	ARG	C-N-CA	5.00	127.31	120.46
1	F	114	LYS	CA-C-N	5.00	127.39	120.29
1	F	114	LYS	C-N-CA	5.00	127.39	120.29
2	1	198	GLN	N-CA-C	-5.00	99.27	108.02
2	2	50	ASP	CA-CB-CG	5.00	117.60	112.60
2	m	30	ARG	N-CA-C	-5.00	100.92	108.52
2	7	108	VAL	O-C-N	-5.00	117.29	123.09
3	K	308	GLU	CA-C-O	-5.00	114.99	120.69
3	J	312	PRO	CA-C-O	-5.00	115.68	122.08

There are no chirality outliers.

All (306) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1	103	TYR	Sidechain
2	1	173	TYR	Sidechain
2	1	211	PHE	Sidechain
2	1	83	ARG	Sidechain
2	2	103	TYR	Sidechain
2	2	123	TYR	Sidechain
2	2	139	ALA	Mainchain,Peptide
2	2	178	ARG	Sidechain
2	2	212	ARG	Sidechain
2	2	46	TYR	Sidechain
2	2	68	ARG	Sidechain
2	3	123	TYR	Sidechain
2	3	199	TYR	Sidechain
2	3	211	PHE	Sidechain
2	3	51	ARG	Sidechain
2	3	80	ARG	Sidechain
2	3	81	ARG	Sidechain
2	4	139	ALA	Peptide
2	4	154	ARG	Sidechain
2	4	155	PHE	Sidechain
2	4	178	ARG	Sidechain
2	4	77	TYR	Sidechain
2	4	81	ARG	Sidechain
2	4	88	ARG	Sidechain
2	5	102	ARG	Sidechain
2	5	154	ARG	Sidechain
2	5	170	ARG	Sidechain
2	5	173	TYR	Sidechain
2	5	178	ARG	Sidechain
2	5	197	TYR	Sidechain
2	5	46	TYR	Sidechain
2	5	68	ARG	Sidechain
2	5	83	ARG	Sidechain
2	6	197	TYR	Sidechain
2	6	30	ARG	Sidechain
2	6	51	ARG	Sidechain
2	7	102	ARG	Sidechain
2	7	103	TYR	Sidechain
2	7	106	TYR	Sidechain
2	7	123	TYR	Sidechain
2	7	132	ILE	Peptide
2	7	139	ALA	Peptide
2	7	173	TYR	Sidechain

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Mol	Chain	Res	Type	Group
2	7	81	ARG	Sidechain
1	A	123	TYR	Sidechain
1	A	130	ARG	Sidechain
1	A	159	TYR	Sidechain
1	A	160	LYS	Peptide
1	A	168	ARG	Sidechain
1	A	213	TYR	Sidechain
1	A	65	GLU	Peptide
1	B	130	ARG	Sidechain
1	B	14	VAL	Peptide
1	B	159	TYR	Sidechain
1	B	185	PHE	Sidechain
1	B	213	TYR	Sidechain
1	B	220	THR	Peptide
1	B	232	TYR	Sidechain
1	B	68	TYR	Sidechain
1	B	91	ARG	Sidechain
1	C	126	TYR	Sidechain
1	C	179	TYR	Sidechain
1	C	65	GLU	Peptide
1	C	66	LYS	Peptide
1	D	126	TYR	Sidechain
1	D	150	THR	Peptide
1	D	159	TYR	Sidechain
1	D	179	TYR	Sidechain
1	D	180	ARG	Sidechain
1	D	213	TYR	Sidechain
1	D	22	PHE	Sidechain
1	D	220	THR	Peptide
1	D	239	ARG	Sidechain
1	D	8	TYR	Sidechain
1	D	93	ARG	Sidechain
1	E	123	TYR	Sidechain
1	E	215	LYS	Mainchain
1	E	220	THR	Peptide
1	E	241	ARG	Sidechain
1	E	93	ARG	Sidechain
1	F	15	PHE	Sidechain
1	F	179	TYR	Sidechain
1	F	213	TYR	Sidechain
1	F	220	THR	Peptide
1	F	235	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	F	8	TYR	Sidechain
1	F	86	ARG	Sidechain
1	F	93	ARG	Sidechain
1	G	123	TYR	Sidechain
1	G	130	ARG	Sidechain
1	G	179	TYR	Sidechain
1	G	180	ARG	Sidechain
1	G	220	THR	Peptide
1	G	28	ARG	Sidechain
1	G	35	ALA	Peptide
1	G	5	GLN	Peptide
1	G	53	ARG	Sidechain
3	H	119	LEU	Peptide
3	H	140	TYR	Sidechain
3	H	154	ARG	Sidechain
3	H	181	TYR	Sidechain,Peptide
3	H	211	PHE	Sidechain
3	H	224	ARG	Sidechain
3	H	249	ARG	Sidechain
3	H	250	ARG	Sidechain
3	H	254	ASP	Peptide
3	H	269	LEU	Peptide
3	H	27	TYR	Sidechain
3	H	275	PHE	Sidechain
3	H	278	ARG	Sidechain
3	H	28	ARG	Sidechain
3	H	303	PHE	Peptide
3	H	317	ARG	Sidechain
3	H	367	ARG	Sidechain
3	H	371	THR	Peptide
3	H	387	THR	Peptide
3	H	50	ARG	Sidechain
3	H	94	TYR	Sidechain
3	I	119	LEU	Peptide
3	I	120	PRO	Peptide
3	I	186	THR	Peptide
3	I	205	ARG	Sidechain
3	I	207	VAL	Peptide
3	I	211	PHE	Sidechain
3	I	224	ARG	Sidechain
3	I	24	ARG	Sidechain
3	I	250	ARG	Sidechain

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Mol	Chain	Res	Type	Group
3	I	263	ARG	Sidechain
3	I	289	ARG	Sidechain
3	I	29	ARG	Sidechain
3	I	321	PHE	Sidechain
3	I	324	HIS	Sidechain
3	I	326	ARG	Sidechain
3	I	385	LYS	Peptide
3	I	386	THR	Peptide
3	I	387	THR	Peptide
3	I	46	ARG	Sidechain
3	J	201	ALA	Mainchain,Peptide
3	J	215	TYR	Sidechain
3	J	24	ARG	Sidechain
3	J	269	LEU	Mainchain,Peptide
3	J	277	PRO	Peptide
3	J	289	ARG	Sidechain
3	J	302	ARG	Sidechain
3	J	305	ARG	Sidechain
3	J	386	THR	Peptide
3	J	44	TYR	Sidechain
3	J	57	ARG	Sidechain
3	J	87	PHE	Sidechain
3	K	20	TYR	Sidechain
3	K	205	ARG	Sidechain
3	K	215	TYR	Sidechain
3	K	221	ARG	Sidechain
3	K	250	ARG	Sidechain
3	K	289	ARG	Sidechain
3	K	317	ARG	Sidechain
3	K	385	LYS	Peptide
3	K	50	ARG	Sidechain
3	K	57	ARG	Sidechain
3	K	94	TYR	Sidechain
3	L	128	TYR	Sidechain
3	L	130	PHE	Sidechain
3	L	140	TYR	Sidechain
3	L	200	ARG	Sidechain
3	L	205	ARG	Sidechain
3	L	21	TYR	Sidechain
3	L	214	LYS	Peptide
3	L	215	TYR	Sidechain
3	L	221	ARG	Sidechain

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Mol	Chain	Res	Type	Group
3	L	227	PHE	Sidechain
3	L	254	ASP	Peptide
3	L	259	ARG	Sidechain
3	L	263	ARG	Sidechain
3	L	28	ARG	Sidechain
3	L	29	ARG	Sidechain
3	L	317	ARG	Sidechain
3	L	371	THR	Peptide
3	L	386	THR	Peptide
3	L	387	THR	Peptide
3	L	46	ARG	Sidechain
3	L	49	ARG	Sidechain
3	M	154	ARG	Sidechain
3	M	215	TYR	Mainchain,Peptide
3	M	217	GLY	Peptide
3	M	218	GLU	Peptide
3	M	236	SER	Peptide
3	M	240	ILE	Peptide
3	M	249	ARG	Sidechain
3	M	250	ARG	Sidechain
3	M	254	ASP	Peptide
3	M	276	ASP	Peptide
3	M	28	ARG	Sidechain
3	M	302	ARG	Sidechain
3	M	311	LEU	Peptide
3	M	321	PHE	Sidechain
3	M	326	ARG	Sidechain
3	M	341	ARG	Sidechain
3	M	43	ARG	Sidechain
3	M	59	ARG	Sidechain
1	a	159	TYR	Sidechain
1	a	179	TYR	Sidechain
1	a	20	ARG	Sidechain
1	a	213	TYR	Sidechain
1	a	220	THR	Peptide
1	a	232	TYR	Sidechain
1	a	26	TYR	Sidechain
1	a	28	ARG	Sidechain
1	a	86	ARG	Sidechain
1	b	10	ARG	Sidechain
1	b	103	TYR	Sidechain
1	b	119	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	b	213	TYR	Sidechain
1	b	220	THR	Peptide
1	b	91	ARG	Sidechain
1	c	126	TYR	Sidechain
1	c	179	TYR	Sidechain
1	c	219	ARG	Sidechain
1	c	232	TYR	Sidechain
1	c	235	ARG	Sidechain
1	c	28	ARG	Sidechain
1	c	53	ARG	Sidechain
1	c	86	ARG	Sidechain
1	d	103	TYR	Sidechain
1	d	119	PHE	Sidechain
1	d	123	TYR	Sidechain
1	d	175	PHE	Sidechain
1	d	179	TYR	Sidechain
1	d	220	THR	Peptide
1	d	221	PHE	Sidechain
1	d	232	TYR	Sidechain
1	d	26	TYR	Sidechain
1	d	86	ARG	Sidechain
1	e	10	ARG	Sidechain
1	e	103	TYR	Sidechain
1	e	123	TYR	Sidechain
1	e	220	THR	Peptide
1	e	53	ARG	Sidechain
1	e	73	HIS	Sidechain
1	e	93	ARG	Sidechain
1	f	132	PHE	Sidechain
1	f	179	TYR	Sidechain
1	f	219	ARG	Sidechain
1	f	220	THR	Mainchain,Peptide
1	f	239	ARG	Sidechain
1	f	93	ARG	Sidechain
1	g	100	ARG	Sidechain
1	g	103	TYR	Sidechain
1	g	130	ARG	Sidechain
1	g	159	TYR	Sidechain
1	g	179	TYR	Sidechain
1	g	219	ARG	Sidechain
1	g	220	THR	Peptide
1	g	68	TYR	Sidechain

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Mol	Chain	Res	Type	Group
2	h	101	TYR	Sidechain
2	h	102	ARG	Sidechain
2	h	106	TYR	Sidechain
2	h	123	TYR	Sidechain
2	h	139	ALA	Peptide
2	h	170	ARG	Sidechain
2	h	81	ARG	Sidechain
2	i	101	TYR	Sidechain
2	i	102	ARG	Sidechain
2	i	123	TYR	Sidechain
2	i	139	ALA	Peptide
2	i	30	ARG	Sidechain
2	i	77	TYR	Sidechain
2	j	106	TYR	Sidechain
2	j	148	TYR	Sidechain
2	j	197	TYR	Sidechain
2	j	80	ARG	Sidechain
2	k	102	ARG	Sidechain
2	k	103	TYR	Sidechain
2	k	106	TYR	Sidechain
2	k	148	TYR	Sidechain
2	k	173	TYR	Sidechain
2	k	211	PHE	Sidechain
2	k	36	PHE	Sidechain
2	k	46	TYR	Sidechain
2	k	68	ARG	Sidechain
2	k	88	ARG	Sidechain
2	l	101	TYR	Sidechain
2	l	123	TYR	Sidechain
2	l	154	ARG	Sidechain
2	l	170	ARG	Sidechain
2	l	199	TYR	Sidechain
2	l	51	ARG	Sidechain
2	l	65	PHE	Sidechain
2	l	77	TYR	Sidechain
2	m	148	TYR	Sidechain
2	m	155	PHE	Sidechain
2	m	173	TYR	Sidechain
2	m	178	ARG	Sidechain
2	m	30	ARG	Sidechain
2	m	68	ARG	Sidechain
2	n	102	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	n	132	ILE	Peptide
2	n	139	ALA	Peptide
2	n	173	TYR	Sidechain
2	n	68	ARG	Sidechain
2	n	83	ARG	Sidechain

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1907	0	1941	12	0
1	B	1907	0	1941	5	0
1	C	1907	0	1941	5	0
1	D	1907	0	1941	10	0
1	E	1907	0	1941	4	0
1	F	1907	0	1941	8	0
1	G	1907	0	1941	12	0
1	a	1866	0	1908	9	0
1	b	1866	0	1908	6	0
1	c	1866	0	1908	8	0
1	d	1866	0	1908	9	0
1	e	1866	0	1908	6	0
1	f	1866	0	1908	8	0
1	g	1866	0	1908	11	0
2	1	1553	0	1580	2	0
2	2	1553	0	1580	6	0
2	3	1553	0	1580	8	0
2	4	1553	0	1580	5	0
2	5	1553	0	1580	23	0
2	6	1553	0	1580	7	0
2	7	1553	0	1580	5	0
2	h	1553	0	1580	3	0
2	i	1553	0	1580	5	0
2	j	1553	0	1580	6	0
2	k	1553	0	1580	4	0
2	l	1553	0	1580	29	0
2	m	1553	0	1580	5	0
2	n	1553	0	1580	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	H	3100	0	3220	27	0
3	I	3100	0	3220	38	0
3	J	3100	0	3220	34	0
3	K	3100	0	3220	64	0
3	L	3100	0	3220	27	0
3	M	3100	0	3220	42	0
4	H	1	0	0	0	0
4	I	1	0	0	0	0
4	J	1	0	0	0	0
4	K	1	0	0	0	0
4	M	1	0	0	0	0
5	I	62	0	24	0	0
5	J	31	0	12	4	0
5	M	31	0	12	0	0
6	K	27	0	12	8	0
All	All	66909	0	68443	413	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 3.

All (413) 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)
2:5:211:PHE:CZ	2:5:211:PHE:CE1	1.99	1.50
2:1:211:PHE:CE2	2:1:211:PHE:CD2	2.00	1.50
2:5:211:PHE:CE2	2:5:211:PHE:CD2	2.00	1.50
2:5:211:PHE:CE1	2:5:211:PHE:CD1	2.01	1.48
2:1:211:PHE:CE2	2:1:211:PHE:CZ	2.04	1.45
2:1:211:PHE:CE1	2:1:211:PHE:CD1	2.04	1.45
2:5:211:PHE:CD1	2:5:211:PHE:CG	2.03	1.45
2:1:211:PHE:CZ	2:1:211:PHE:CE1	2.03	1.42
2:5:211:PHE:CZ	2:5:211:PHE:CE2	2.07	1.42
2:1:211:PHE:CD1	2:1:211:PHE:CG	2.06	1.42
2:1:211:PHE:CD2	2:1:211:PHE:CG	2.10	1.37
2:5:211:PHE:CD2	2:5:211:PHE:CG	2.13	1.37
3:K:143:ILE:HD11	6:K:401:ADP:N6	1.63	1.14
2:5:170:ARG:CZ	2:5:170:ARG:NH1	2.11	1.13
3:K:143:ILE:HD11	6:K:401:ADP:C6	1.85	1.12
2:1:170:ARG:NH1	2:1:211:PHE:CZ	2.17	1.11
2:1:170:ARG:NH1	2:1:170:ARG:CZ	2.12	1.11
3:L:359:GLY:HA3	3:M:172:ILE:HD13	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5:170:ARG:NH1	2:5:211:PHE:CE2	2.20	1.09
2:5:170:ARG:CZ	2:5:211:PHE:CD1	2.35	1.09
2:5:170:ARG:CZ	2:5:211:PHE:CE2	2.36	1.08
2:1:170:ARG:CZ	2:1:211:PHE:CD1	2.36	1.08
2:1:170:ARG:NH1	2:1:211:PHE:CE2	2.23	1.07
2:5:170:ARG:NH1	2:5:211:PHE:CE1	2.23	1.07
2:5:170:ARG:NH1	2:5:211:PHE:CG	2.23	1.07
2:1:170:ARG:NH1	2:1:211:PHE:CD2	2.22	1.07
2:1:170:ARG:CZ	2:1:211:PHE:CE2	2.38	1.07
2:5:170:ARG:NH1	2:5:211:PHE:CD2	2.22	1.07
2:1:170:ARG:NH1	2:1:211:PHE:CG	2.23	1.06
2:5:170:ARG:NH1	2:5:211:PHE:CZ	2.22	1.06
2:1:170:ARG:CZ	2:1:211:PHE:CD2	2.38	1.06
2:5:170:ARG:CZ	2:5:211:PHE:CG	2.38	1.06
2:5:170:ARG:NH1	2:5:211:PHE:CD1	2.23	1.06
2:1:170:ARG:NH1	2:1:211:PHE:CE1	2.23	1.06
2:1:170:ARG:CZ	2:1:211:PHE:CE1	2.40	1.05
3:K:143:ILE:CD1	6:K:401:ADP:C6	2.38	1.05
2:5:170:ARG:CZ	2:5:211:PHE:CE1	2.40	1.05
2:5:170:ARG:CZ	2:5:211:PHE:CZ	2.39	1.05
3:K:143:ILE:CD1	6:K:401:ADP:N1	2.19	1.04
3:K:143:ILE:HD13	6:K:401:ADP:N1	1.71	1.04
2:1:170:ARG:CZ	2:1:211:PHE:CG	2.41	1.04
2:5:170:ARG:CZ	2:5:211:PHE:CD2	2.41	1.02
2:1:170:ARG:CZ	2:1:211:PHE:CZ	2.41	1.02
2:1:170:ARG:NH1	2:1:211:PHE:CD1	2.27	1.01
3:K:204:ILE:HB	3:K:238:ILE:HD13	1.49	0.94
3:K:244:ASP:OD2	3:K:292:ILE:HD11	1.66	0.94
2:5:170:ARG:NE	2:5:211:PHE:CE1	2.43	0.87
3:K:320:ILE:CG2	3:K:351:ILE:HG21	2.06	0.85
2:1:170:ARG:NE	2:1:211:PHE:CZ	2.45	0.85
3:L:359:GLY:CA	3:M:172:ILE:HD13	2.06	0.84
3:K:289:ARG:HB2	3:K:292:ILE:CD1	2.08	0.83
2:1:170:ARG:NH2	2:1:211:PHE:CG	2.47	0.83
3:K:320:ILE:HG22	3:K:351:ILE:HG21	1.62	0.82
3:K:216:ILE:CG2	3:K:263:ARG:NH2	2.43	0.81
3:K:320:ILE:HG22	3:K:351:ILE:CG2	2.11	0.80
2:5:170:ARG:NH2	2:5:211:PHE:CD2	2.50	0.80
2:5:170:ARG:NE	2:5:211:PHE:CZ	2.50	0.78
2:5:170:ARG:NH2	2:5:211:PHE:CG	2.52	0.78
3:I:398:VAL:HG22	3:I:398:VAL:OXT	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:146:LEU:H	3:M:147:ASP:HA	1.49	0.78
3:K:143:ILE:HD11	6:K:401:ADP:HN62	1.46	0.77
2:l:170:ARG:NH2	2:l:211:PHE:CD2	2.52	0.76
3:K:204:ILE:HD13	3:K:238:ILE:HD13	1.67	0.76
3:I:205:ARG:HH11	3:I:207:VAL:HG13	1.51	0.75
3:I:212:VAL:CG2	3:J:216:ILE:HG22	2.16	0.75
2:l:170:ARG:NE	2:l:211:PHE:CE1	2.55	0.75
3:K:237:ILE:HG23	3:K:284:ILE:HG13	1.66	0.75
3:M:201:ALA:HB3	3:M:237:ILE:HG13	1.70	0.73
3:H:230:ALA:HB2	3:H:238:ILE:HD11	1.70	0.72
3:K:143:ILE:HD13	6:K:401:ADP:C6	2.19	0.71
3:K:204:ILE:HB	3:K:238:ILE:CD1	2.21	0.70
1:A:65:GLU:H	1:A:66:LYS:HA	1.56	0.70
2:n:90:ILE:HG22	2:n:112:ILE:HD13	1.70	0.70
3:K:216:ILE:HG23	3:K:263:ARG:NH2	2.06	0.70
3:K:244:ASP:OD2	3:K:292:ILE:CD1	2.37	0.70
3:K:204:ILE:CB	3:K:238:ILE:HD13	2.22	0.70
3:I:398:VAL:OXT	3:I:398:VAL:CG2	2.38	0.70
3:K:204:ILE:HD13	3:K:238:ILE:CD1	2.23	0.69
3:M:161:LEU:HD22	3:M:237:ILE:HD11	1.75	0.69
3:I:212:VAL:HG21	3:J:216:ILE:HG22	1.73	0.68
2:m:95:SER:HB3	2:m:130:GLY:H	1.58	0.68
3:K:44:TYR:O	3:K:48:VAL:HG23	1.94	0.68
3:K:320:ILE:CG2	3:K:351:ILE:CG2	2.70	0.67
3:K:283:VAL:HA	3:K:284:ILE:HB	1.77	0.66
3:K:237:ILE:CG2	3:K:284:ILE:HG21	2.26	0.66
3:L:394:GLY:HA3	3:L:396:MET:H	1.60	0.66
1:a:51:ASP:HA	1:a:209:ILE:HG22	1.76	0.65
3:J:351:ILE:HA	3:J:354:ILE:HD12	1.79	0.64
3:M:236:SER:HA	3:M:237:ILE:HG12	1.79	0.64
3:I:212:VAL:HG21	3:J:216:ILE:CG2	2.27	0.64
3:K:289:ARG:HD2	3:K:292:ILE:HD13	1.80	0.63
3:K:143:ILE:HD13	6:K:401:ADP:C2	2.33	0.63
3:K:216:ILE:HG23	3:K:263:ARG:HH22	1.62	0.62
3:L:389:ILE:H	3:L:390:PRO:CD	2.13	0.62
3:J:398:VAL:HG22	3:J:398:VAL:OXT	1.99	0.61
1:f:31:VAL:HG23	1:f:168:ARG:HH22	1.65	0.61
3:J:105:ARG:HD2	3:J:121:THR:H	1.66	0.61
1:b:104:ASP:HB2	2:j:92:THR:HG21	1.83	0.61
3:H:172:ILE:HG21	3:M:359:GLY:HA3	1.83	0.61
3:M:243:LEU:HG	3:M:246:ILE:HD11	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:289:ARG:HB2	3:K:292:ILE:HD13	1.83	0.60
3:H:211:PHE:HD2	3:H:246:ILE:HD13	1.67	0.60
3:K:216:ILE:HG21	3:K:263:ARG:NH2	2.17	0.60
3:I:181:TYR:CE1	3:I:290:ILE:HG21	2.37	0.59
3:H:320:ILE:HD13	3:H:348:GLY:HA2	1.83	0.59
3:I:212:VAL:HG23	3:J:216:ILE:HG22	1.84	0.59
3:H:398:VAL:HG22	3:H:398:VAL:OXT	2.02	0.59
3:J:153:ILE:CD1	3:J:180:LEU:HD11	2.33	0.59
3:H:207:VAL:HG12	3:H:209:SER:H	1.66	0.59
2:n:154:ARG:HB2	2:n:167:LEU:HD13	1.84	0.59
3:I:181:TYR:CE1	3:I:290:ILE:CG2	2.86	0.58
3:K:202:THR:HG22	3:K:204:ILE:CD1	2.32	0.58
3:K:243:LEU:HA	3:K:246:ILE:HG22	1.85	0.58
3:M:320:ILE:HG22	3:M:324:HIS:CE1	2.38	0.58
3:K:204:ILE:CB	3:K:238:ILE:CD1	2.81	0.58
3:J:320:ILE:HG22	3:J:351:ILE:HG21	1.84	0.58
3:K:289:ARG:HB2	3:K:292:ILE:HD11	1.83	0.58
2:j:138:VAL:HG22	2:j:139:ALA:H	1.67	0.57
3:K:204:ILE:CD1	3:K:238:ILE:HD13	2.33	0.57
2:3:68:ARG:HH22	2:4:131:ALA:H	1.52	0.57
3:L:398:VAL:HG22	3:L:398:VAL:OXT	2.05	0.57
3:K:202:THR:HG22	3:K:204:ILE:HD11	1.87	0.57
3:I:342:ILE:HG21	3:I:379:ILE:HG21	1.86	0.57
3:M:236:SER:CA	3:M:237:ILE:HG12	2.33	0.57
1:D:100:ARG:O	1:D:104:ASP:HA	2.05	0.56
3:K:216:ILE:CG2	3:K:263:ARG:HH22	2.17	0.56
1:A:126:TYR:HA	1:B:129:VAL:HG23	1.87	0.56
3:L:359:GLY:C	3:M:172:ILE:HD13	2.31	0.56
3:M:290:ILE:HD11	3:M:297:ILE:HG13	1.87	0.56
3:K:364:ARG:HH21	3:L:305:ARG:CZ	2.19	0.55
3:J:342:ILE:HG21	3:J:379:ILE:HG21	1.88	0.55
3:J:351:ILE:HD13	3:J:354:ILE:HD12	1.89	0.55
3:H:216:ILE:HD12	3:M:212:VAL:HB	1.88	0.55
1:a:31:VAL:HA	1:a:80:GLY:HA2	1.89	0.55
3:M:146:LEU:N	3:M:147:ASP:HA	2.22	0.55
3:K:204:ILE:HG21	3:K:238:ILE:HD12	1.89	0.54
1:f:21:LEU:HD22	1:f:21:LEU:H	1.73	0.54
1:a:85:ALA:HB2	1:a:134:VAL:HG21	1.89	0.54
1:D:141:VAL:HG11	1:D:216:VAL:HA	1.89	0.54
2:i:137:ILE:HD13	2:i:137:ILE:H	1.73	0.54
3:I:181:TYR:CD1	3:I:290:ILE:HG23	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:320:ILE:CG2	3:M:324:HIS:CE1	2.91	0.53
1:e:12:ILE:HD12	1:e:13:THR:H	1.73	0.53
3:H:320:ILE:HG22	3:H:351:ILE:HG21	1.89	0.53
3:K:214:LYS:O	3:K:216:ILE:HD12	2.08	0.53
3:H:398:VAL:OXT	3:H:398:VAL:CG2	2.57	0.53
1:c:21:LEU:HD12	1:c:21:LEU:H	1.74	0.52
3:L:342:ILE:HG22	3:L:379:ILE:HG21	1.91	0.52
1:f:171:VAL:HG13	1:f:195:ALA:HB1	1.91	0.52
2:n:145:LEU:HD12	2:n:178:ARG:HH22	1.75	0.52
3:I:359:GLY:HA3	3:J:172:ILE:HG12	1.92	0.52
3:M:91:THR:HG22	3:M:115:ILE:HD13	1.92	0.52
3:K:92:SER:HB2	3:K:95:ILE:H	1.74	0.52
3:K:216:ILE:CG2	3:K:263:ARG:CZ	2.88	0.52
3:L:339:LEU:HD22	3:L:379:ILE:HD11	1.92	0.52
3:J:398:VAL:OXT	3:J:398:VAL:CG2	2.57	0.52
3:M:375:PHE:O	3:M:379:ILE:HG13	2.10	0.52
3:L:150:ILE:O	3:L:153:ILE:HG22	2.10	0.52
1:d:126:TYR:HA	1:e:129:VAL:HG23	1.90	0.52
1:E:219:ARG:O	1:E:220:THR:HG23	2.10	0.51
1:G:165:GLY:H	1:G:168:ARG:HH21	1.58	0.51
3:K:157:VAL:HG21	3:K:284:ILE:HD11	1.92	0.51
3:K:237:ILE:HG22	3:K:284:ILE:HG21	1.91	0.51
2:n:49:ALA:HB3	2:n:52:MET:HB3	1.90	0.51
1:D:184:SER:H	1:D:187:ASP:HB2	1.75	0.51
1:G:97:GLN:HB3	2:7:72:ILE:HG23	1.91	0.51
3:M:239:PHE:HB2	3:M:284:ILE:HD11	1.93	0.51
3:H:206:VAL:HG22	3:H:207:VAL:H	1.76	0.51
3:H:216:ILE:HD11	3:M:260:GLU:HB3	1.93	0.51
3:M:146:LEU:HD12	3:M:150:ILE:HG13	1.93	0.51
1:B:207:GLU:H	1:B:207:GLU:CD	2.18	0.50
3:L:320:ILE:HG22	3:L:351:ILE:HG21	1.92	0.50
1:G:141:VAL:HG11	1:G:216:VAL:HA	1.92	0.50
3:J:206:VAL:HG22	3:J:207:VAL:H	1.76	0.50
3:H:46:ARG:HA	3:H:49:ARG:HH21	1.75	0.50
3:K:320:ILE:HG22	3:K:351:ILE:HG22	1.89	0.50
3:L:216:ILE:HD12	3:L:216:ILE:C	2.36	0.50
3:M:236:SER:HA	3:M:237:ILE:CG1	2.41	0.50
3:K:216:ILE:HD12	3:K:216:ILE:N	2.26	0.49
3:L:389:ILE:H	3:L:390:PRO:HD3	1.77	0.49
3:J:153:ILE:HD13	3:J:180:LEU:HD11	1.94	0.49
2:j:23:VAL:HG13	2:j:122:ILE:HD11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:240:ILE:HG21	3:I:243:LEU:HD22	1.94	0.49
2:k:68:ARG:HH12	2:l:130:GLY:HA2	1.76	0.49
3:H:323:ILE:HD12	3:H:326:ARG:HH12	1.78	0.49
2:2:192:THR:HG23	2:2:194:ASP:H	1.77	0.49
2:3:45:ILE:HG12	2:3:55:THR:HG22	1.94	0.49
3:H:230:ALA:CB	3:H:238:ILE:HD11	2.42	0.49
1:A:17:PRO:HA	1:B:26:TYR:CE2	2.48	0.49
1:c:190:VAL:HG11	1:c:235:ARG:HH11	1.77	0.49
2:j:138:VAL:HG22	2:j:139:ALA:N	2.28	0.49
3:H:318:ILE:HG23	3:H:336:PHE:HB3	1.95	0.49
3:I:245:ALA:HA	3:I:292:ILE:HD11	1.94	0.49
3:K:330:LEU:HG	3:K:331:ALA:H	1.77	0.49
3:K:398:VAL:OXT	3:K:398:VAL:HG22	2.13	0.48
1:A:94:ILE:HG22	1:A:98:ILE:HD12	1.95	0.48
1:F:124:THR:HG22	1:G:130:ARG:HH21	1.76	0.48
3:I:272:LEU:HD13	3:I:302:ARG:HD3	1.96	0.48
2:i:86:THR:HG23	2:i:89:ALA:H	1.78	0.48
3:M:342:ILE:HG21	3:M:379:ILE:HG21	1.94	0.48
1:f:14:VAL:HA	1:g:23:GLN:HE22	1.78	0.48
2:6:134:GLU:HG2	2:6:138:VAL:HG23	1.94	0.48
3:K:216:ILE:HG23	3:K:263:ARG:CZ	2.43	0.48
3:J:386:THR:HB	3:J:387:THR:HG23	1.94	0.48
2:3:22:GLY:HA2	2:3:115:ILE:HD11	1.96	0.48
2:k:68:ARG:HH22	2:l:131:ALA:H	1.62	0.48
1:b:67:ILE:HD12	1:b:210:GLU:HG2	1.94	0.48
3:M:100:LEU:HG	3:M:118:VAL:HG13	1.95	0.48
3:M:342:ILE:CG2	3:M:379:ILE:HG21	2.44	0.47
1:D:196:MET:HE1	1:D:209:ILE:HG22	1.97	0.47
3:K:216:ILE:HD11	3:J:256:SER:OG	2.15	0.47
3:L:172:ILE:HG23	3:L:172:ILE:O	2.13	0.47
3:J:320:ILE:HD12	5:J:401:ATP:N6	2.28	0.47
3:I:238:ILE:HD12	3:I:281:VAL:HG11	1.97	0.47
3:K:289:ARG:CB	3:K:292:ILE:HD13	2.44	0.47
2:n:94:THR:HG21	2:n:110:LEU:HD22	1.97	0.47
3:H:239:PHE:CE1	3:H:284:ILE:CG2	2.98	0.47
3:I:206:VAL:CG1	3:I:240:ILE:HG12	2.44	0.47
3:I:240:ILE:CG2	3:I:243:LEU:HB2	2.45	0.47
3:J:350:ASP:O	3:J:354:ILE:HG13	2.15	0.47
1:E:54:VAL:HG12	1:E:59:LEU:HD13	1.97	0.47
1:f:54:VAL:HG12	1:f:61:ALA:HB3	1.97	0.47
3:H:58:LEU:HB3	3:I:114:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:281:VAL:HA	3:H:282:LYS:HB2	1.97	0.47
3:L:53:SER:HB3	3:M:93:GLN:HE21	1.80	0.47
3:M:360:MET:HA	3:M:363:ILE:HD12	1.96	0.47
2:k:22:GLY:HA2	2:k:115:ILE:HD11	1.97	0.47
1:D:142:ASP:CG	1:D:143:GLU:H	2.23	0.46
2:n:49:ALA:HB3	2:n:52:MET:CB	2.44	0.46
3:I:342:ILE:CG2	3:I:379:ILE:HG21	2.44	0.46
3:J:153:ILE:HD13	3:J:180:LEU:HD21	1.96	0.46
2:i:186:ILE:HG21	2:i:204:VAL:HG21	1.97	0.46
3:L:342:ILE:CG2	3:L:379:ILE:HG21	2.45	0.46
3:J:324:HIS:CE1	5:J:401:ATP:C2	3.03	0.46
3:L:58:LEU:HD21	3:M:59:ARG:HH21	1.80	0.46
3:I:240:ILE:HG21	3:I:243:LEU:CD2	2.46	0.46
3:H:239:PHE:CZ	3:H:284:ILE:HG22	2.51	0.46
1:a:85:ALA:CB	1:a:134:VAL:HG21	2.45	0.46
3:I:261:VAL:HG22	3:J:216:ILE:CG2	2.45	0.46
3:L:359:GLY:HA3	3:M:172:ILE:HG21	1.97	0.46
1:d:59:LEU:HD11	1:d:61:ALA:HB2	1.98	0.46
2:h:14:THR:HG22	2:h:27:THR:HG22	1.98	0.46
3:K:354:ILE:HD13	3:K:379:ILE:HG12	1.98	0.46
1:g:238:GLU:HA	1:g:241:ARG:HH11	1.81	0.46
3:K:289:ARG:CD	3:K:292:ILE:HD13	2.46	0.46
3:M:236:SER:C	3:M:237:ILE:HG12	2.40	0.46
1:g:31:VAL:HA	1:g:80:GLY:HA2	1.98	0.45
1:A:7:GLY:HA2	1:A:8:TYR:HB2	1.99	0.45
1:C:14:VAL:HG13	1:D:23:GLN:HE22	1.81	0.45
3:L:62:PRO:O	3:L:63:LEU:HD23	2.16	0.45
2:3:81:ARG:HE	2:3:83:ARG:HH11	1.63	0.45
2:m:189:VAL:HG11	2:m:196:PHE:CZ	2.51	0.45
3:J:316:GLY:O	3:J:320:ILE:HG12	2.17	0.45
1:a:26:TYR:CE1	1:g:17:PRO:HA	2.51	0.45
2:3:180:SER:H	2:l:180:SER:HA	1.81	0.45
2:6:138:VAL:HG22	2:6:139:ALA:H	1.80	0.45
3:L:109:ASN:HB2	3:L:116:VAL:HG21	1.97	0.45
1:A:240:ILE:HG22	1:A:244:LEU:HD12	1.98	0.45
3:I:136:PRO:HA	3:I:137:GLU:C	2.42	0.45
3:I:181:TYR:CD1	3:I:290:ILE:CG2	3.00	0.45
1:G:165:GLY:H	1:G:168:ARG:NH2	2.14	0.45
2:2:20:LYS:HB3	2:2:158:GLU:HA	1.98	0.44
2:4:125:ILE:N	2:4:125:ILE:HD12	2.32	0.44
1:B:66:LYS:O	1:B:68:TYR:CD2	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:227:GLU:CD	1:G:227:GLU:H	2.25	0.44
3:K:275:PHE:CD2	3:J:205:ARG:HG2	2.52	0.44
2:7:126:ASP:HB2	2:7:127:PRO:HD2	1.99	0.44
2:n:192:THR:HG22	2:n:195:GLU:HB2	1.99	0.44
3:K:202:THR:CG2	3:K:204:ILE:HD11	2.48	0.44
3:I:153:ILE:CG2	3:I:195:VAL:HG11	2.48	0.44
3:L:321:PHE:CE1	3:L:351:ILE:HD12	2.52	0.44
1:A:38:ILE:HG12	1:A:196:MET:HE3	1.99	0.44
1:a:87:VAL:HG21	1:g:121:GLN:HE21	1.82	0.44
1:F:161:ALA:HB1	1:F:175:PHE:CD2	2.52	0.44
3:M:139:SER:H	3:M:142:ASP:HB2	1.82	0.44
1:A:65:GLU:H	1:A:66:LYS:CA	2.28	0.44
1:d:113:ALA:HB1	1:d:156:LEU:CD1	2.47	0.44
1:e:79:SER:HB3	1:e:164:ILE:HD12	1.98	0.44
2:6:86:THR:HG23	2:6:89:ALA:H	1.83	0.44
3:H:321:PHE:CZ	3:H:351:ILE:HD12	2.53	0.44
3:L:328:MET:HE1	3:M:172:ILE:CG2	2.48	0.44
3:M:161:LEU:CD2	3:M:237:ILE:HD11	2.47	0.44
2:2:98:LEU:HD11	2:2:110:LEU:CD1	2.47	0.43
3:H:320:ILE:CG2	3:H:351:ILE:HG21	2.47	0.43
3:I:153:ILE:HG22	3:I:195:VAL:HG11	1.99	0.43
3:L:359:GLY:C	3:M:172:ILE:CD1	2.91	0.43
3:H:204:ILE:HD12	3:H:238:ILE:HG12	2.00	0.43
3:K:204:ILE:CG1	3:K:238:ILE:HD13	2.47	0.43
1:A:8:TYR:CE1	1:B:9:ASP:OD2	2.71	0.43
1:g:73:HIS:CE1	1:g:106:PRO:HB3	2.54	0.43
3:K:178:VAL:CG1	3:K:307:ILE:HD11	2.48	0.43
2:m:72:ILE:HA	2:m:75:ASN:HD22	1.83	0.43
1:d:160:LYS:O	1:d:161:ALA:HB2	2.19	0.43
1:G:147:LEU:HD21	1:G:162:THR:HG22	1.99	0.43
1:g:23:GLN:OE1	1:g:23:GLN:HA	2.18	0.43
3:H:292:ILE:HG12	3:H:292:ILE:O	2.18	0.43
3:M:298:LEU:HD12	3:M:298:LEU:HA	1.82	0.43
1:D:12:ILE:HG12	1:D:131:PRO:HD3	2.00	0.43
1:E:79:SER:HB2	1:E:164:ILE:HD12	1.99	0.43
1:f:183:LEU:HB3	1:f:188:ALA:HB2	2.01	0.43
2:n:132:ILE:HD12	2:n:133:GLU:H	1.83	0.43
3:I:337:LYS:H	3:I:337:LYS:HD2	1.84	0.43
1:A:204:LEU:HB2	1:A:233:VAL:HG13	2.00	0.43
1:d:113:ALA:HB1	1:d:156:LEU:HD13	2.01	0.43
2:l:154:ARG:HB2	2:l:167:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:123:TYR:CD2	1:c:129:VAL:HG21	2.53	0.43
1:G:71:ASP:HB3	1:G:73:HIS:CE1	2.54	0.43
2:6:106:TYR:O	2:6:108:VAL:HG12	2.18	0.43
3:J:178:VAL:HG13	3:J:305:ARG:HB2	2.01	0.43
1:D:137:LEU:HD21	1:D:164:ILE:HG23	2.00	0.43
1:G:163:ALA:HB2	1:G:171:VAL:HG11	2.00	0.43
2:2:22:GLY:HA2	2:2:115:ILE:HD11	2.00	0.43
1:C:88:LEU:HD22	1:C:134:VAL:HG23	2.00	0.42
1:C:189:MET:O	1:C:193:LEU:HD13	2.19	0.42
1:a:129:VAL:HG12	1:a:130:ARG:H	1.83	0.42
1:c:109:VAL:H	1:c:109:VAL:HG23	1.61	0.42
3:I:170:VAL:HG12	3:I:172:ILE:HG23	2.01	0.42
1:d:70:ILE:HG21	1:d:112:LEU:HD21	2.01	0.42
1:F:203:GLU:HA	1:F:240:ILE:HG21	2.01	0.42
1:g:214:VAL:HA	1:g:221:PHE:H	1.84	0.42
2:2:176:MET:HA	2:2:182:SER:HB3	2.00	0.42
3:I:181:TYR:CE1	3:I:290:ILE:HG23	2.54	0.42
3:K:215:TYR:CE2	3:M:251:THR:HG23	2.54	0.42
2:1:36:PHE:CZ	2:1:38:ALA:HB2	2.54	0.42
3:J:324:HIS:HE1	5:J:401:ATP:C2	2.37	0.42
1:D:73:HIS:HA	1:D:221:PHE:H	1.84	0.42
3:I:245:ALA:HA	3:I:292:ILE:CD1	2.50	0.42
3:I:261:VAL:HG22	3:J:216:ILE:HG23	2.01	0.42
1:A:67:ILE:HG23	1:A:67:ILE:O	2.20	0.42
1:C:74:ILE:HD13	1:C:74:ILE:HG21	1.84	0.42
2:h:81:ARG:HB3	2:h:83:ARG:HE	1.84	0.42
2:j:167:LEU:HD13	2:j:170:ARG:HH11	1.85	0.42
2:6:165:VAL:O	2:6:169:VAL:HG23	2.19	0.42
2:7:77:TYR:CE1	2:7:81:ARG:HD3	2.54	0.42
1:F:20:ARG:HE	1:G:33:ARG:HH12	1.66	0.42
3:I:389:ILE:HG13	3:I:391:ASP:OD1	2.19	0.42
1:a:114:LYS:HD2	1:b:86:ARG:HD2	2.02	0.42
3:H:46:ARG:HH11	3:H:46:ARG:HD3	1.68	0.42
3:I:61:PRO:HA	3:I:62:PRO:C	2.45	0.42
3:K:178:VAL:HG12	3:K:307:ILE:HD11	2.02	0.42
1:c:97:GLN:HE21	2:j:72:ILE:HG23	1.85	0.42
1:F:166:MET:HG3	1:F:167:GLY:N	2.35	0.42
2:2:169:VAL:HG21	2:2:204:VAL:HG13	2.02	0.42
2:4:26:ALA:HB2	2:4:168:ALA:HB1	2.02	0.42
3:I:238:ILE:HG22	3:I:240:ILE:HG13	2.02	0.42
1:d:160:LYS:HE3	1:e:58:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:56:SER:HB2	1:g:59:LEU:H	1.84	0.41
1:a:38:ILE:HD12	1:a:196:MET:HE2	2.02	0.41
1:d:240:ILE:HG22	1:d:244:LEU:HD12	2.01	0.41
2:3:178:ARG:HH12	2:l:36:PHE:HA	1.84	0.41
3:L:53:SER:CB	3:M:93:GLN:HE21	2.32	0.41
3:L:89:VAL:HG12	3:L:113:LEU:HG	2.02	0.41
3:J:339:LEU:HD22	3:J:379:ILE:HD11	2.02	0.41
3:J:77:VAL:HB	3:J:115:ILE:HD11	2.03	0.41
1:d:28:ARG:HH12	1:d:151:ASP:HB3	1.86	0.41
2:h:139:ALA:C	2:h:140:THR:HG23	2.44	0.41
2:7:169:VAL:HA	2:7:186:ILE:HD11	2.02	0.41
3:H:320:ILE:HG22	3:H:351:ILE:CG2	2.50	0.41
3:I:324:HIS:CG	3:I:355:CYS:SG	3.14	0.41
3:K:214:LYS:O	3:K:216:ILE:CD1	2.68	0.41
3:M:243:LEU:HD22	3:M:297:ILE:HG21	2.02	0.41
1:e:117:CYS:HB3	1:f:86:ARG:CZ	2.51	0.41
2:6:111:LEU:HD22	2:6:138:VAL:HG11	2.01	0.41
1:F:36:THR:HB	1:F:167:GLY:H	1.85	0.41
2:6:69:ILE:HD12	2:6:97:LEU:HD21	2.03	0.41
2:m:170:ARG:HE	2:m:170:ARG:HA	1.84	0.41
2:7:124:SER:HB2	2:7:138:VAL:HG21	2.03	0.41
3:K:204:ILE:CG1	3:K:238:ILE:CD1	2.99	0.41
3:K:257:GLY:O	3:K:261:VAL:HG23	2.21	0.41
3:J:97:GLU:CD	3:J:97:GLU:H	2.29	0.41
1:E:147:LEU:HD12	1:E:148:TYR:H	1.85	0.41
1:F:33:ARG:HH22	3:M:391:ASP:HB3	1.85	0.41
3:I:206:VAL:HG13	3:I:240:ILE:HG12	2.02	0.41
3:J:153:ILE:HG22	3:J:195:VAL:HG21	2.03	0.41
1:C:161:ALA:HB1	1:C:175:PHE:CD2	2.56	0.41
2:3:104:PHE:HA	2:4:102:ARG:HD3	2.03	0.41
3:I:242:GLU:H	3:I:286:ALA:HB3	1.86	0.41
3:M:217:GLY:H	3:M:220:ALA:H	1.66	0.41
1:A:71:ASP:CG	1:A:72:GLU:H	2.29	0.41
1:b:35:ALA:HB3	1:b:66:LYS:HE2	2.03	0.41
1:b:219:ARG:HD3	1:b:219:ARG:HA	1.98	0.41
1:c:73:HIS:HA	1:c:221:PHE:H	1.86	0.41
1:e:141:VAL:HG11	1:e:216:VAL:HG22	2.02	0.41
1:f:141:VAL:HG12	1:f:219:ARG:HE	1.86	0.41
2:i:48:ILE:HD13	2:i:48:ILE:HA	1.71	0.41
2:i:202:GLU:H	2:i:202:GLU:HG2	1.61	0.41
3:L:398:VAL:OXT	3:L:398:VAL:CG2	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:320:ILE:HD12	5:J:401:ATP:HN62	1.86	0.41
1:G:81:LEU:HD12	1:G:81:LEU:H	1.86	0.41
2:3:170:ARG:HG2	2:3:211:PHE:CZ	2.56	0.41
3:K:389:ILE:HB	3:K:390:PRO:HD3	2.01	0.41
3:L:375:PHE:O	3:L:379:ILE:HG13	2.21	0.41
3:M:384:LYS:C	3:M:386:THR:H	2.29	0.41
1:b:159:TYR:CE2	1:c:59:LEU:HD13	2.56	0.40
2:l:137:ILE:HG21	2:l:152:GLU:HB2	2.02	0.40
2:n:165:VAL:O	2:n:169:VAL:HG23	2.21	0.40
3:H:347:SER:H	3:H:350:ASP:HB2	1.86	0.40
3:K:330:LEU:HD12	3:K:330:LEU:HA	1.93	0.40
1:G:206:PRO:HG2	1:G:230:LYS:HZ3	1.86	0.40
1:g:48:LEU:HD12	1:g:48:LEU:HA	1.86	0.40
1:g:147:LEU:HD21	1:g:162:THR:HG22	2.04	0.40
3:M:104:ALA:HB1	3:M:120:PRO:HB3	2.01	0.40
3:M:320:ILE:CG2	3:M:351:ILE:HG21	2.52	0.40
3:J:318:ILE:HG23	3:J:336:PHE:CB	2.51	0.40
1:c:16:SER:HB3	1:c:17:PRO:HD2	2.02	0.40
1:D:142:ASP:CG	1:D:143:GLU:N	2.78	0.40
2:4:45:ILE:HD12	2:4:198:GLN:OE1	2.21	0.40
3:I:350:ASP:HA	3:J:300:PRO:HG2	2.03	0.40
2:1:186:ILE:HG23	2:1:204:VAL:HG11	2.04	0.40
2:m:102:ARG:C	2:m:104:PHE:H	2.29	0.40
1:F:27:ALA:O	1:F:30:ALA:HB3	2.21	0.40
2:k:12:THR:HG23	2:k:28:GLU:O	2.21	0.40
3:H:153:ILE:HD11	3:H:307:ILE:HG21	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 10 ligands modelled in this entry, 5 are monoatomic - leaving 5 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
5	ATP	I	401	4	32,33,33	4.03	7 (21%)	48,52,52	1.73	10 (20%)
5	ATP	J	401	4	32,33,33	3.77	6 (18%)	48,52,52	1.40	8 (16%)
5	ATP	I	402	4	32,33,33	4.53	6 (18%)	48,52,52	1.45	11 (22%)
5	ATP	M	401	4	32,33,33	4.05	6 (18%)	48,52,52	1.48	8 (16%)
6	ADP	K	401	4	28,29,29	2.99	2 (7%)	43,45,45	1.83	12 (27%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	ATP	I	401	4	-	7/22/38/38	0/3/3/3
5	ATP	J	401	4	-	6/22/38/38	0/3/3/3
5	ATP	I	402	4	-	1/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	ATP	M	401	4	-	4/22/38/38	0/3/3/3
6	ADP	K	401	4	-	1/16/32/32	0/3/3/3

All (27) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	I	402	ATP	PB-O3A	17.31	1.78	1.59
5	J	401	ATP	PB-O3B	16.36	1.77	1.59
5	I	401	ATP	PB-O3A	15.38	1.76	1.59
5	I	402	ATP	PB-O3B	14.72	1.75	1.59
6	K	401	ADP	PA-O3A	14.60	1.75	1.59
5	M	401	ATP	PB-O3A	14.24	1.74	1.59
5	M	401	ATP	PA-O3A	13.42	1.74	1.59
5	I	401	ATP	PB-O3B	12.75	1.73	1.59
5	J	401	ATP	PB-O3A	11.84	1.72	1.59
5	I	402	ATP	PA-O3A	10.17	1.70	1.59
5	M	401	ATP	PB-O3B	9.74	1.70	1.59
5	I	401	ATP	PA-O3A	7.98	1.68	1.59
5	I	401	ATP	C8-N9	4.00	1.44	1.37
6	K	401	ADP	O4'-C1'	3.38	1.49	1.42
5	J	401	ATP	PA-O3A	3.26	1.63	1.59
5	I	401	ATP	C2-N3	-3.06	1.28	1.33
5	J	401	ATP	C4-N9	-2.91	1.31	1.37
5	M	401	ATP	O4'-C4'	2.56	1.50	1.45
5	I	402	ATP	PA-O2A	-2.45	1.44	1.55
5	M	401	ATP	C8-N9	-2.37	1.33	1.37
5	I	401	ATP	C5'-C4'	2.27	1.58	1.51
5	M	401	ATP	C6-N1	2.26	1.42	1.35
5	J	401	ATP	C8-N7	-2.24	1.27	1.31
5	J	401	ATP	O4'-C4'	-2.23	1.40	1.45
5	I	402	ATP	C5-C4	2.10	1.42	1.39
5	I	401	ATP	C1'-N9	2.06	1.52	1.46
5	I	402	ATP	C2-N3	-2.02	1.30	1.33

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	K	401	ADP	N6-C6-N1	6.30	132.41	118.38
5	I	401	ATP	C4-N9-C8	-5.11	100.37	105.74
5	M	401	ATP	N6-C6-N1	4.42	128.22	118.38
5	I	401	ATP	N3-C2-N1	3.96	134.57	128.58
6	K	401	ADP	O4'-C1'-N9	3.86	115.50	108.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	I	401	ATP	N6-C6-N1	3.55	126.28	118.38
5	J	401	ATP	N6-C6-N1	3.48	126.13	118.38
5	I	402	ATP	N6-C6-N1	3.43	126.01	118.38
5	J	401	ATP	O4'-C1'-N9	3.25	114.33	108.09
5	I	401	ATP	C6-C5-C4	3.17	121.50	117.18
6	K	401	ADP	C5-C6-N6	-3.04	115.77	123.29
5	I	402	ATP	C4-C5-N7	-2.89	107.28	110.58
6	K	401	ADP	C6-C5-C4	2.84	121.06	117.18
5	M	401	ATP	C5-C4-N3	-2.83	122.83	126.72
5	I	401	ATP	C3'-C2'-C1'	-2.81	96.14	101.46
5	J	401	ATP	O2B-PB-O3B	2.80	114.85	107.27
6	K	401	ADP	C4-N9-C8	-2.74	102.86	105.74
5	M	401	ATP	O4'-C4'-C3'	-2.70	99.79	105.15
5	I	401	ATP	C6-C5-N7	-2.66	126.96	132.09
5	J	401	ATP	C1'-N9-C8	-2.66	121.19	127.09
5	I	402	ATP	C5-C4-N3	-2.64	123.08	126.72
5	M	401	ATP	C6-C5-C4	2.58	120.70	117.18
5	M	401	ATP	C5-C6-N6	-2.57	116.91	123.29
6	K	401	ADP	C5-C4-N9	2.57	108.61	105.81
5	I	402	ATP	O5'-C5'-C4'	2.56	117.70	108.99
5	I	402	ATP	C6-C5-C4	2.48	120.56	117.18
5	I	401	ATP	O3G-PG-O2G	2.42	116.88	107.80
5	I	401	ATP	N9-C8-N7	2.42	117.37	113.94
6	K	401	ADP	O3A-PB-O1B	-2.42	98.33	111.04
5	J	401	ATP	C4-C5-N7	-2.36	107.89	110.58
5	I	402	ATP	N3-C2-N1	2.28	132.03	128.58
5	I	402	ATP	C2'-C3'-C4'	2.27	106.99	102.61
6	K	401	ADP	C5-C6-N1	-2.25	111.80	117.51
6	K	401	ADP	N3-C2-N1	2.25	131.98	128.58
5	I	401	ATP	C1'-N9-C8	2.24	132.06	127.09
6	K	401	ADP	C6-C5-N7	-2.19	127.86	132.09
5	I	402	ATP	O3G-PG-O2G	2.12	115.75	107.80
5	M	401	ATP	N9-C8-N7	2.11	116.93	113.94
5	M	401	ATP	O5'-C5'-C4'	2.10	116.14	108.99
5	M	401	ATP	C2'-C1'-N9	-2.09	108.11	113.30
5	I	402	ATP	C5-N7-C8	2.08	106.71	103.45
5	J	401	ATP	C6-C5-C4	2.07	120.00	117.18
5	I	402	ATP	C1'-N9-C8	2.06	131.66	127.09
5	J	401	ATP	C5-C6-N6	-2.05	118.21	123.29
5	I	402	ATP	C5-C4-N9	2.04	108.04	105.81
5	J	401	ATP	C5-C4-N3	-2.03	123.92	126.72
5	I	401	ATP	O2G-PG-O3B	-2.03	97.82	104.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	K	401	ADP	O3B-PB-O1B	2.02	118.71	110.83
6	K	401	ADP	C3'-C2'-C1'	2.01	105.27	101.46

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	I	401	ATP	PB-O3B-PG-O2G
5	I	401	ATP	C5'-O5'-PA-O1A
5	I	401	ATP	C5'-O5'-PA-O3A
5	J	401	ATP	C5'-O5'-PA-O2A
6	K	401	ADP	PA-O3A-PB-O2B
5	M	401	ATP	C3'-C4'-C5'-O5'
5	I	401	ATP	PG-O3B-PB-O1B
5	I	401	ATP	C5'-O5'-PA-O2A
5	J	401	ATP	C5'-O5'-PA-O3A
5	I	402	ATP	C4'-C5'-O5'-PA
5	M	401	ATP	PA-O3A-PB-O2B
5	I	401	ATP	PB-O3B-PG-O3G
5	J	401	ATP	PB-O3B-PG-O2G
5	I	401	ATP	PG-O3B-PB-O2B
5	M	401	ATP	PA-O3A-PB-O1B
5	J	401	ATP	PB-O3A-PA-O2A
5	M	401	ATP	O4'-C4'-C5'-O5'
5	J	401	ATP	PG-O3B-PB-O2B
5	J	401	ATP	O4'-C4'-C5'-O5'

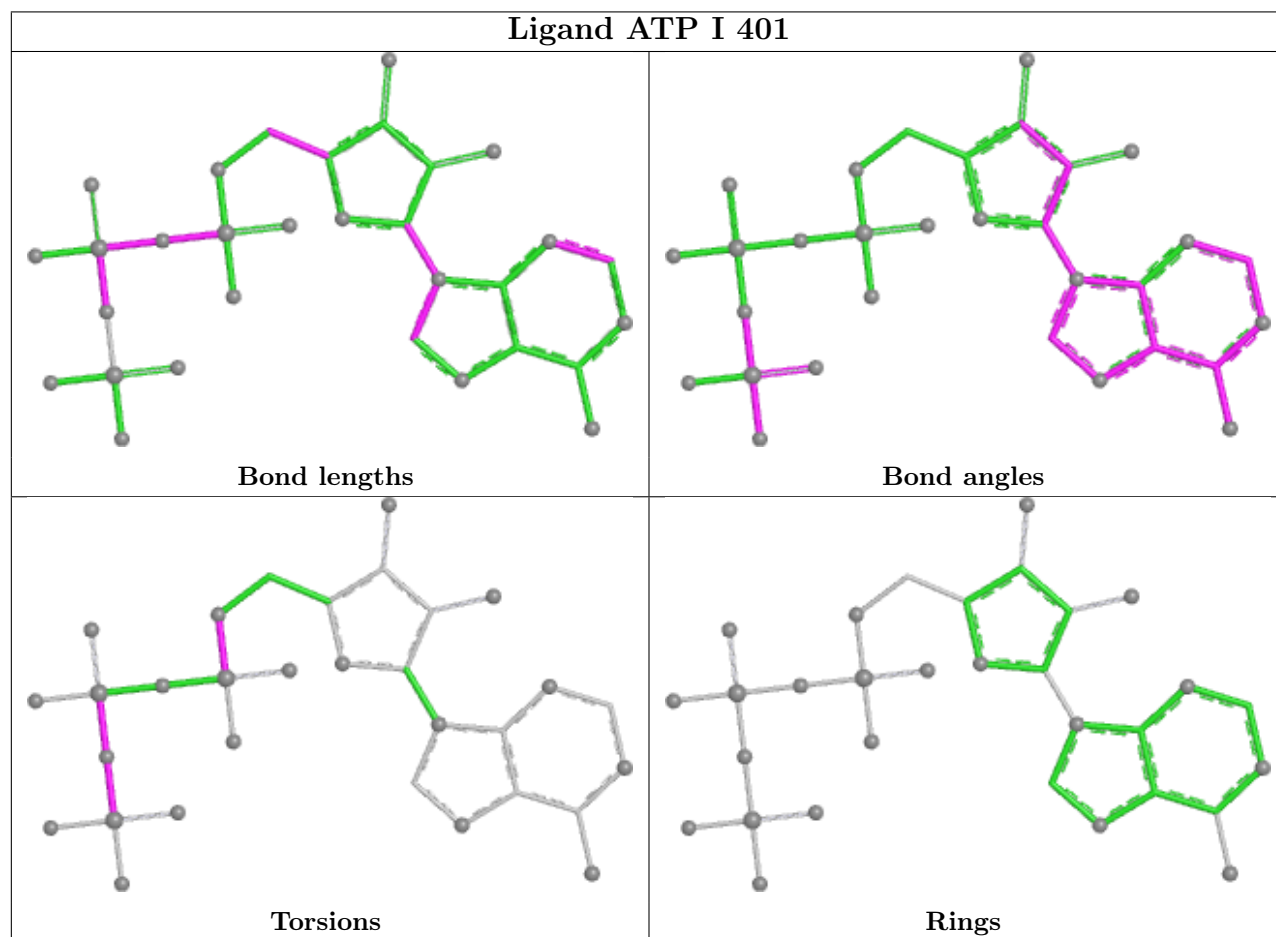
There are no ring outliers.

2 monomers are involved in 12 short contacts:

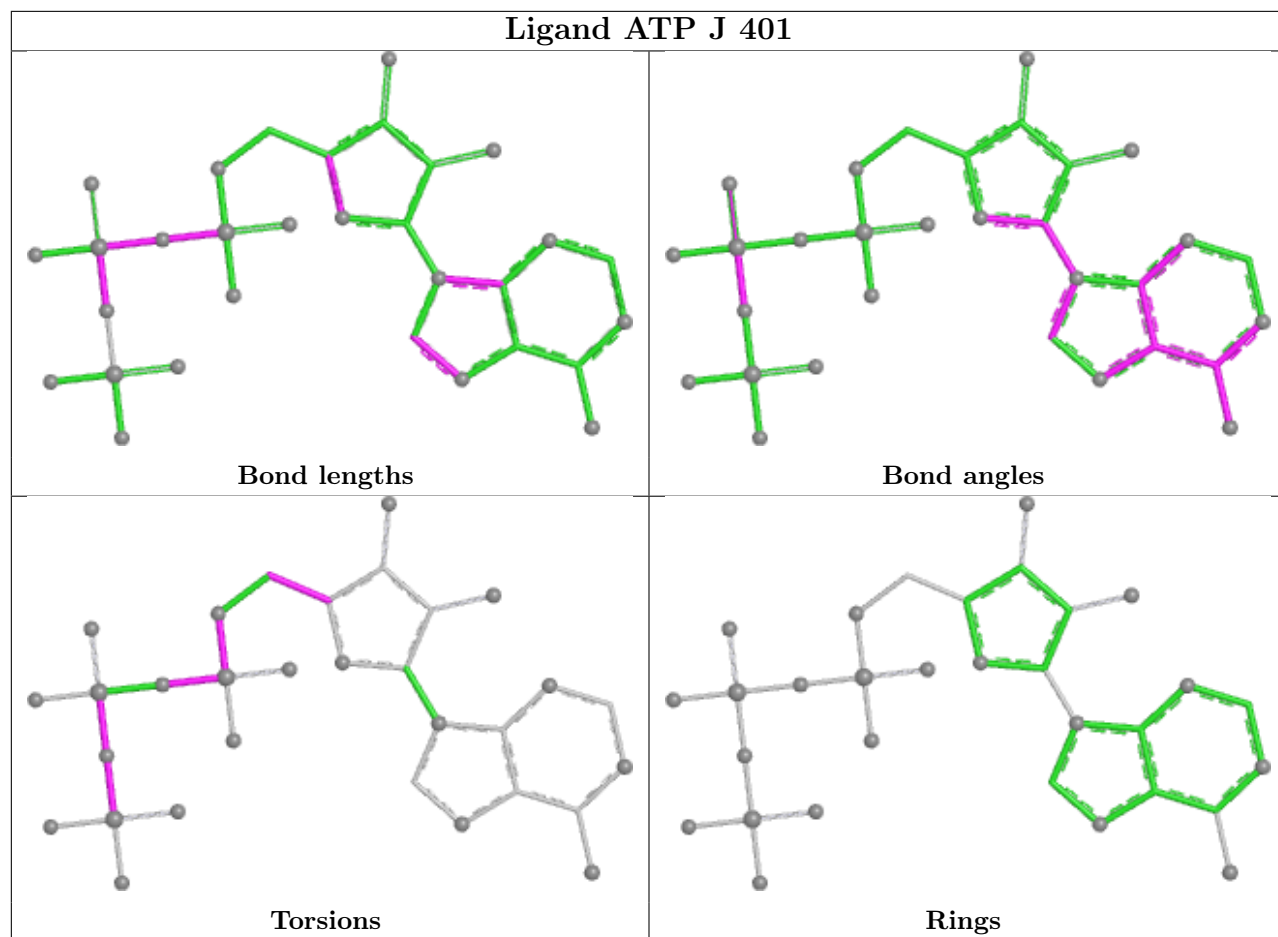
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	J	401	ATP	4	0
6	K	401	ADP	8	0

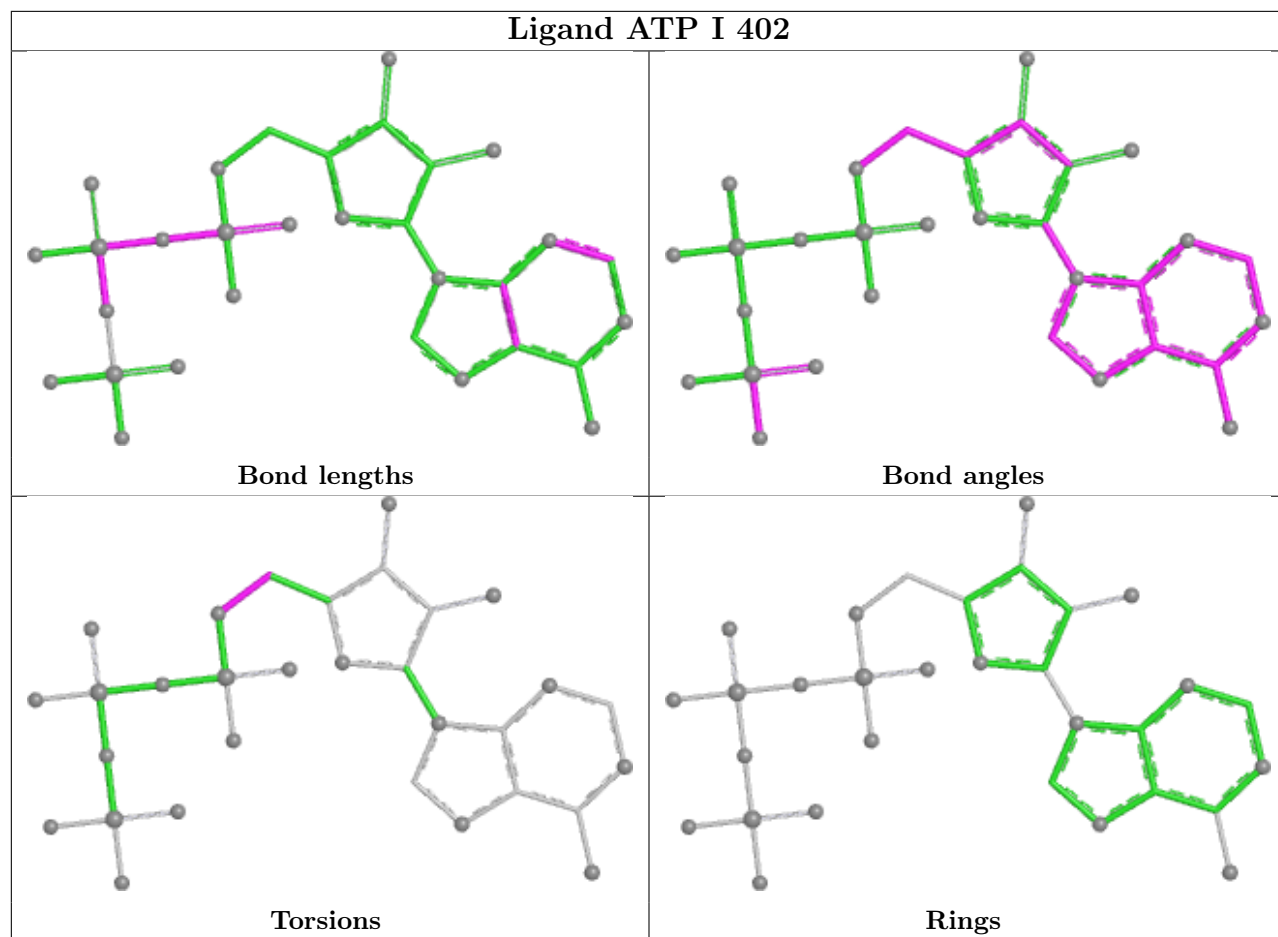
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the

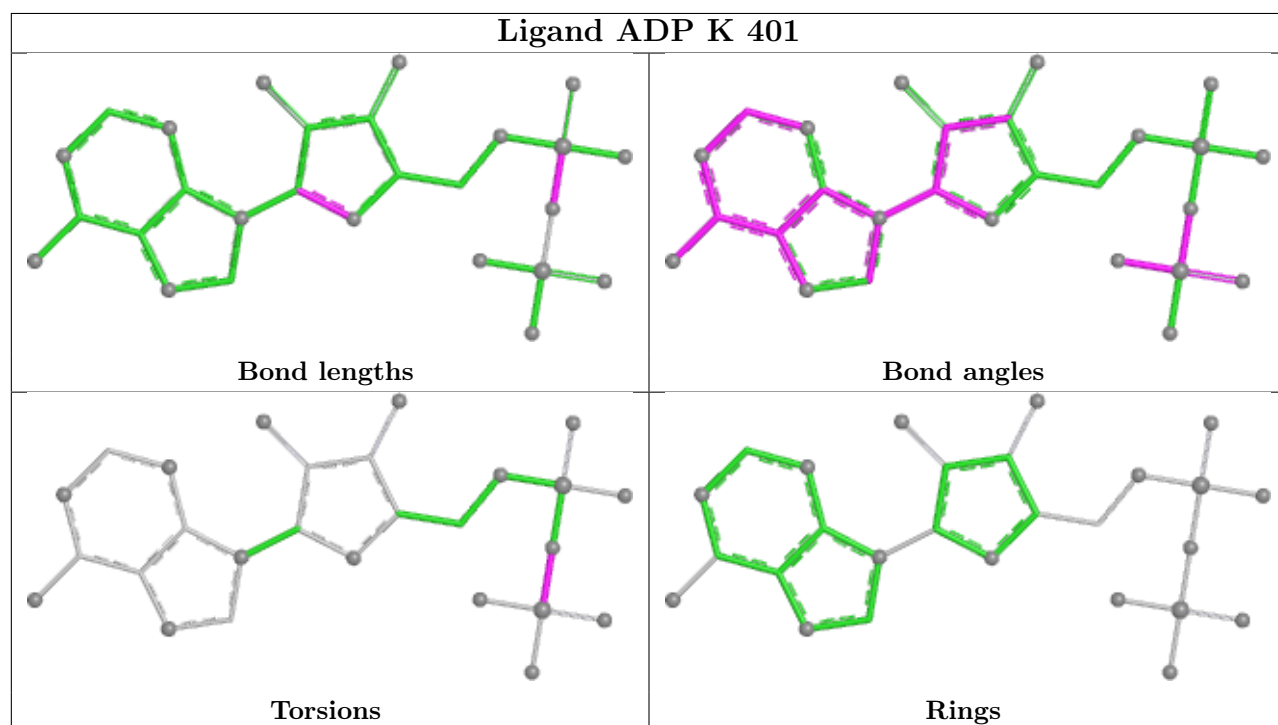
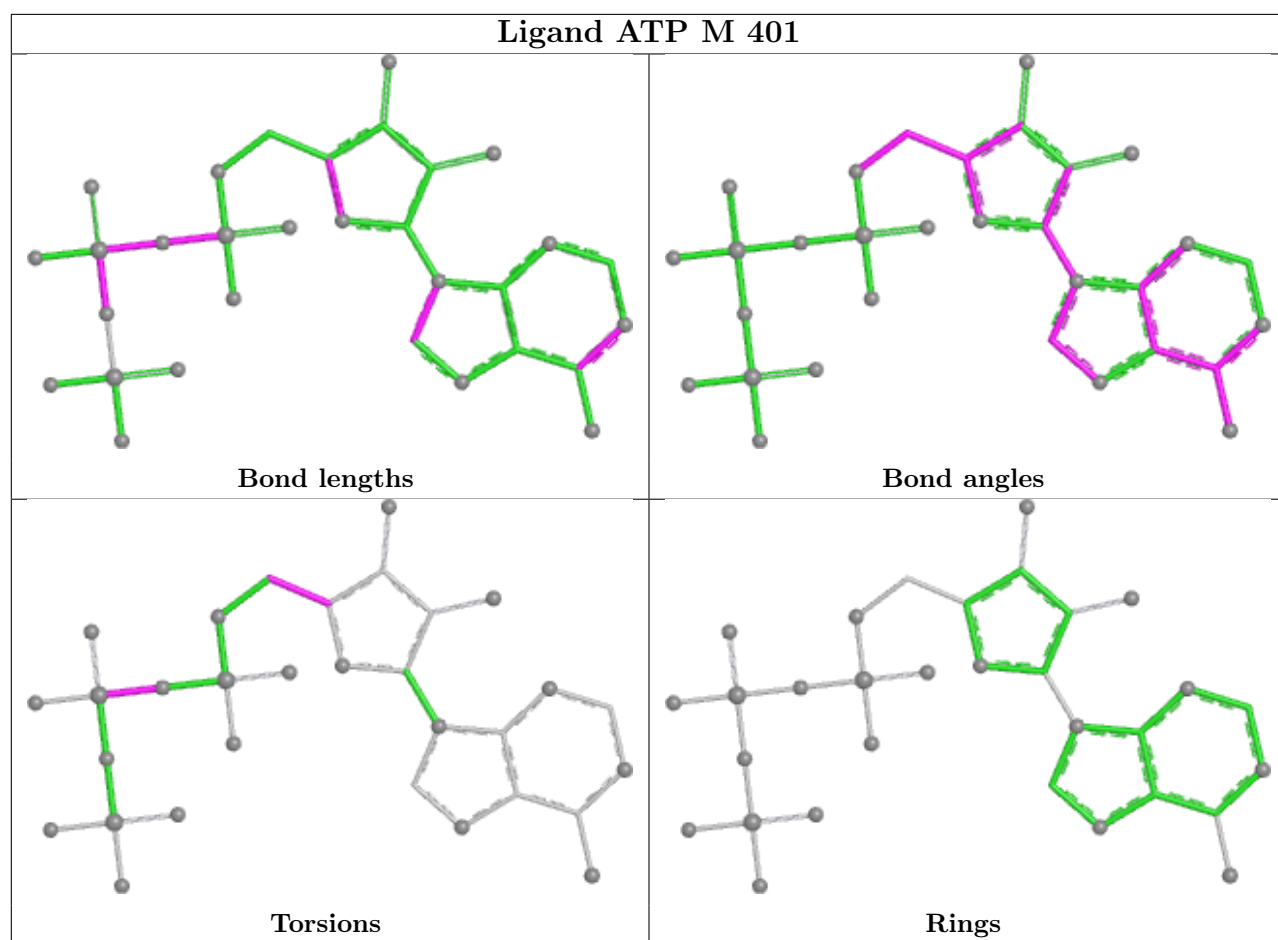
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



Ligand ATP J 401







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0214. These allow visual inspection of the internal detail of the map and identification of artifacts.

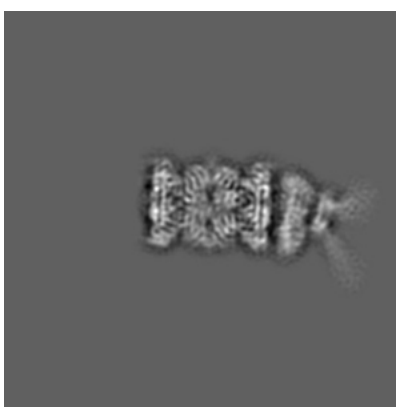
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

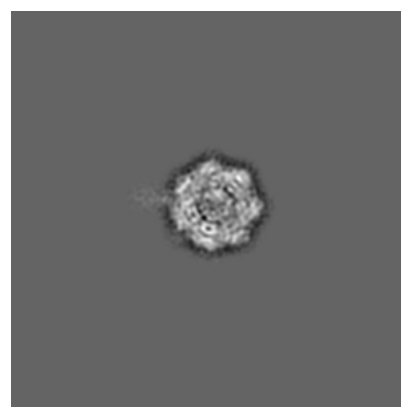
6.1.1 Primary map



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: 192



Y Index: 192



Z Index: 192

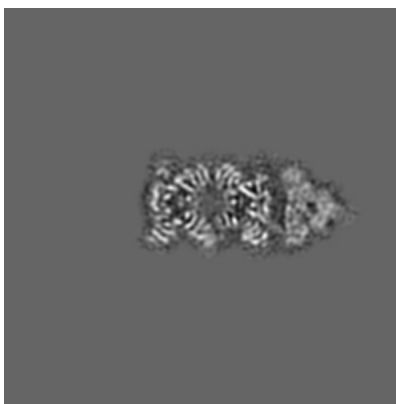
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 179



Y Index: 181

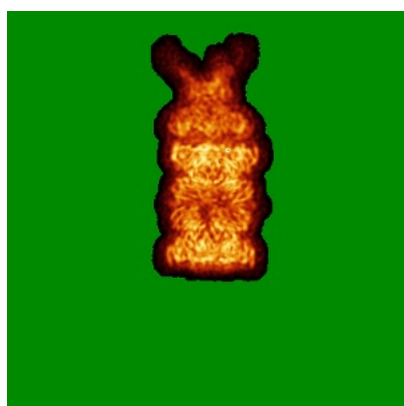


Z Index: 250

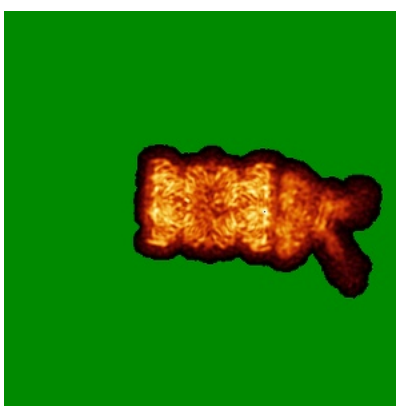
The images above show the largest variance slices of the map in three orthogonal directions.

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

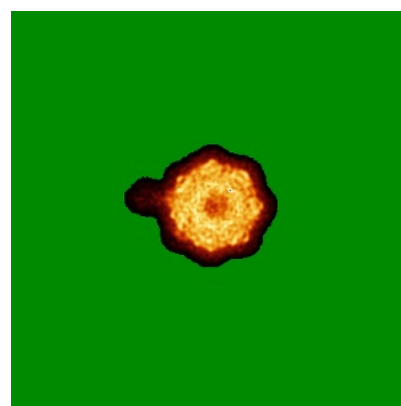
6.4.1 Primary map



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

This section was not generated.

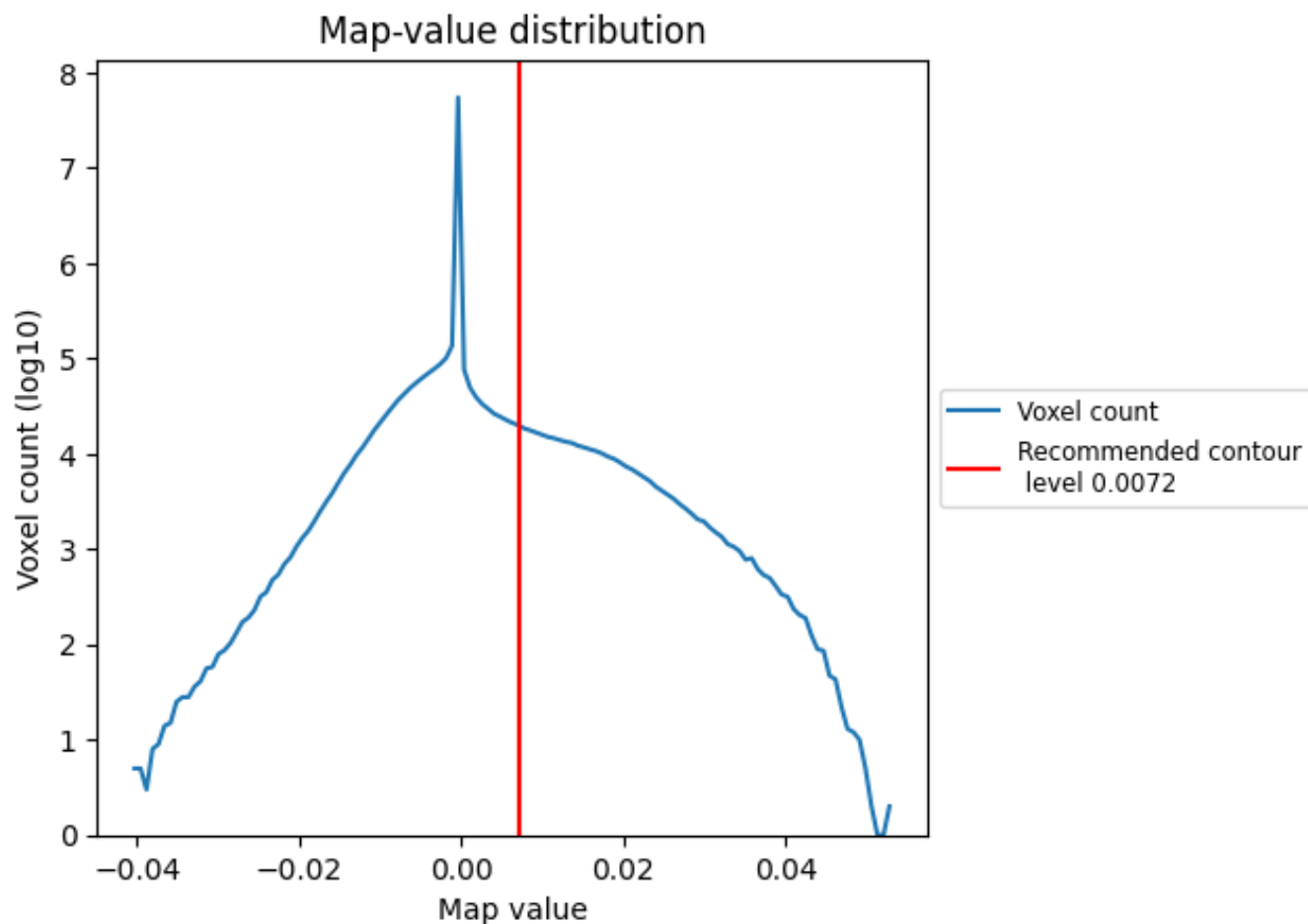
6.6 Mask visualisation

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

7 Map analysis [i](#)

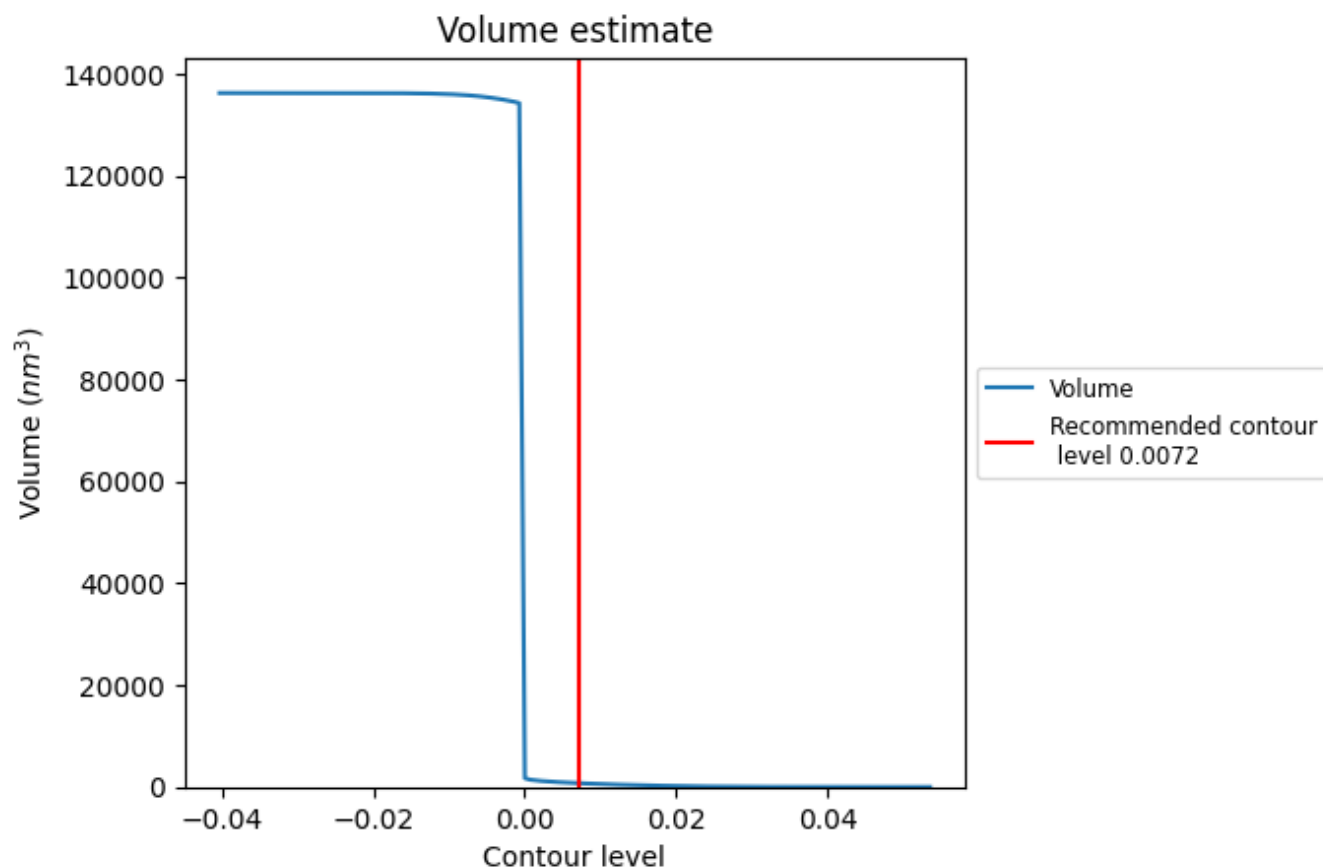
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

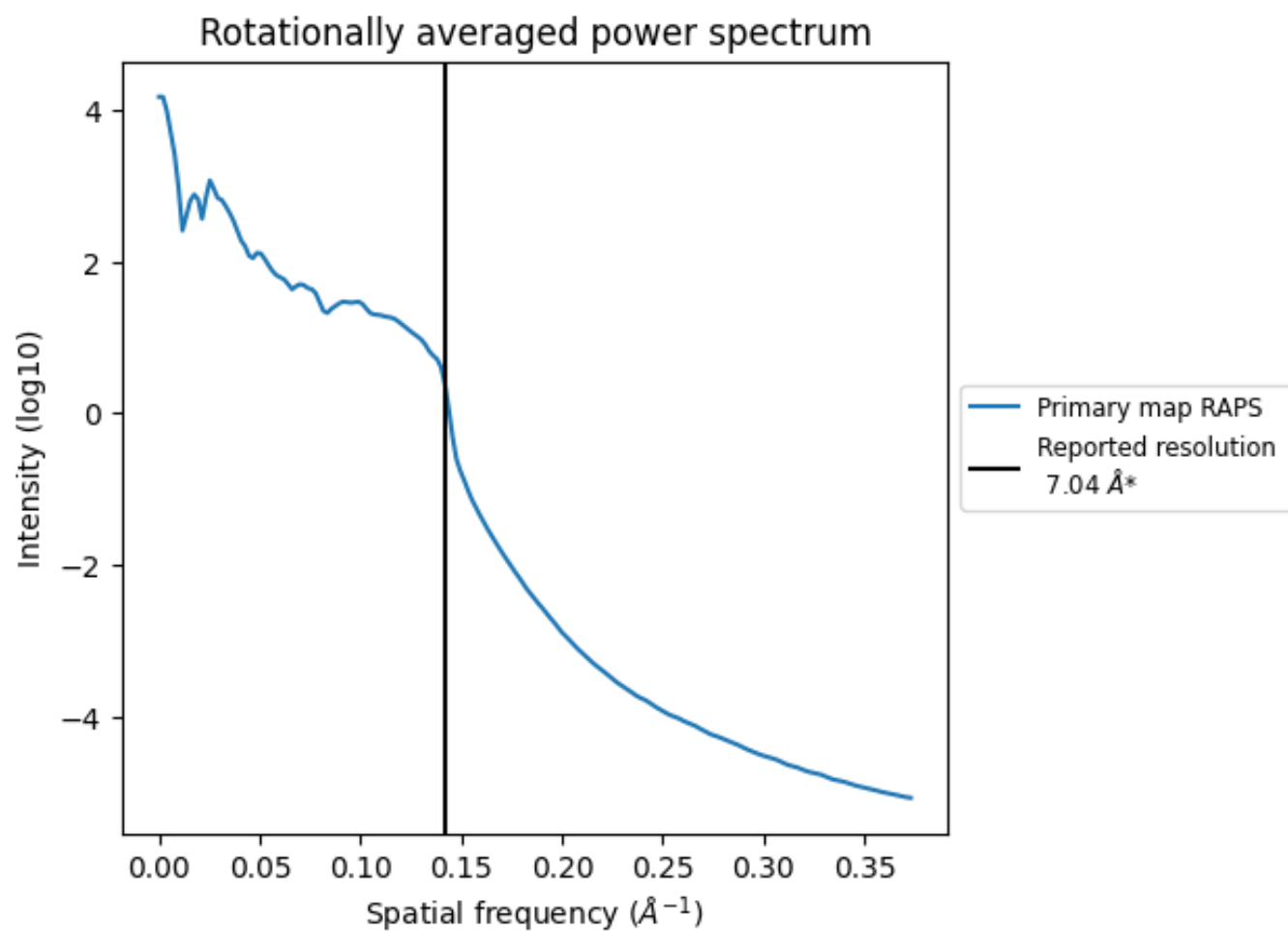
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 742 nm³; this corresponds to an approximate mass of 670 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 0.142 Å⁻¹

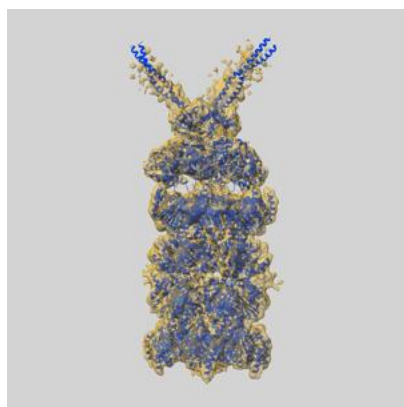
8 Fourier-Shell correlation ⓘ

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

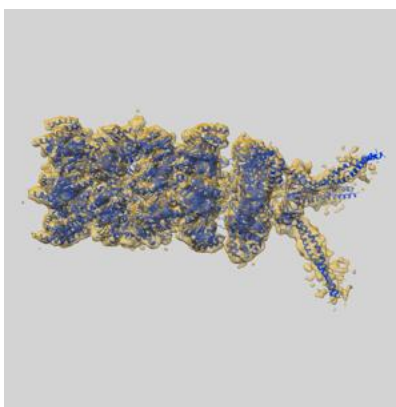
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-0214 and PDB model 6HEA. Per-residue inclusion information can be found in section [3](#) on page [9](#).

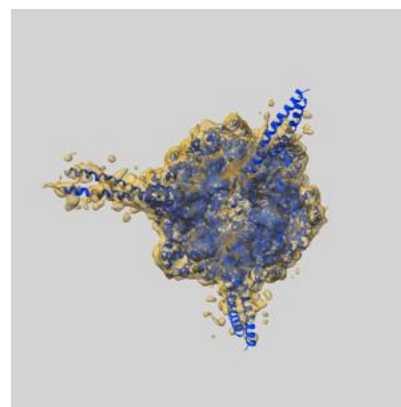
9.1 Map-model overlay [i](#)



X



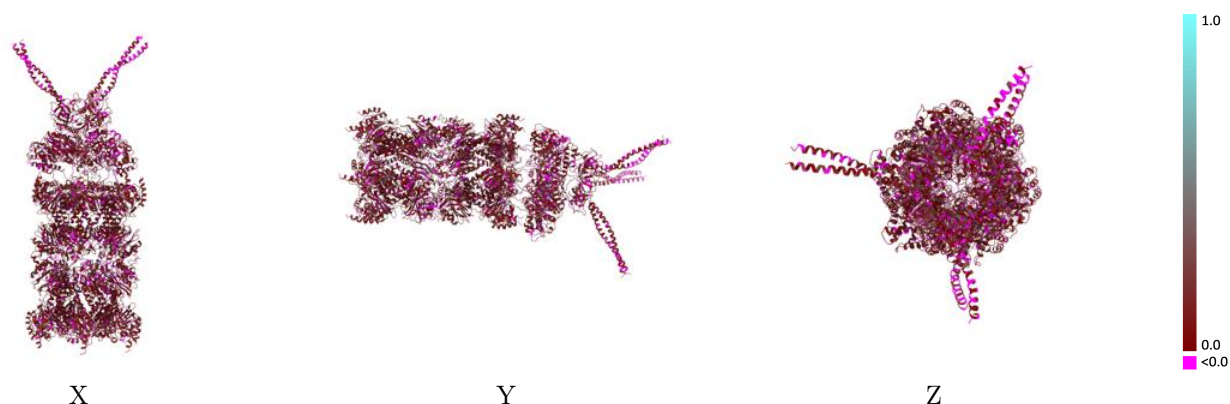
Y



Z

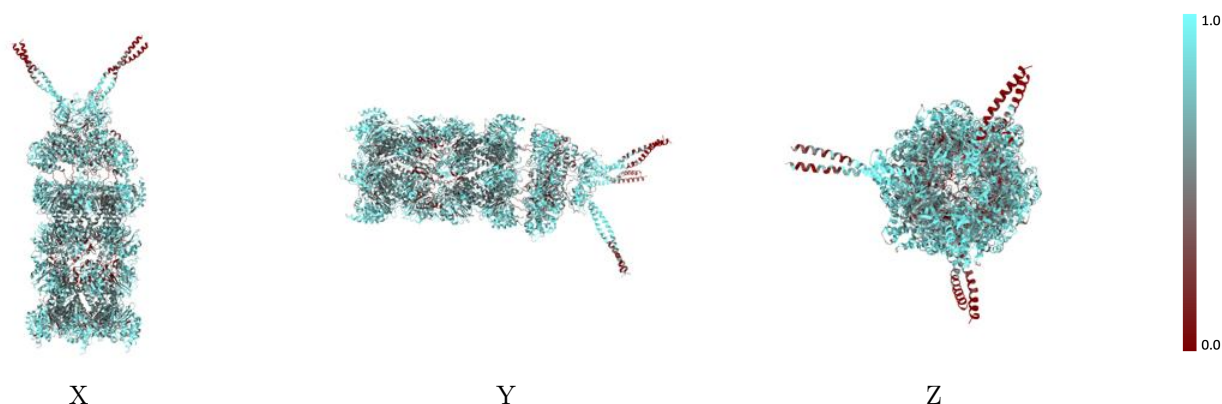
The images above show the 3D surface view of the map at the recommended contour level 0.0072 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



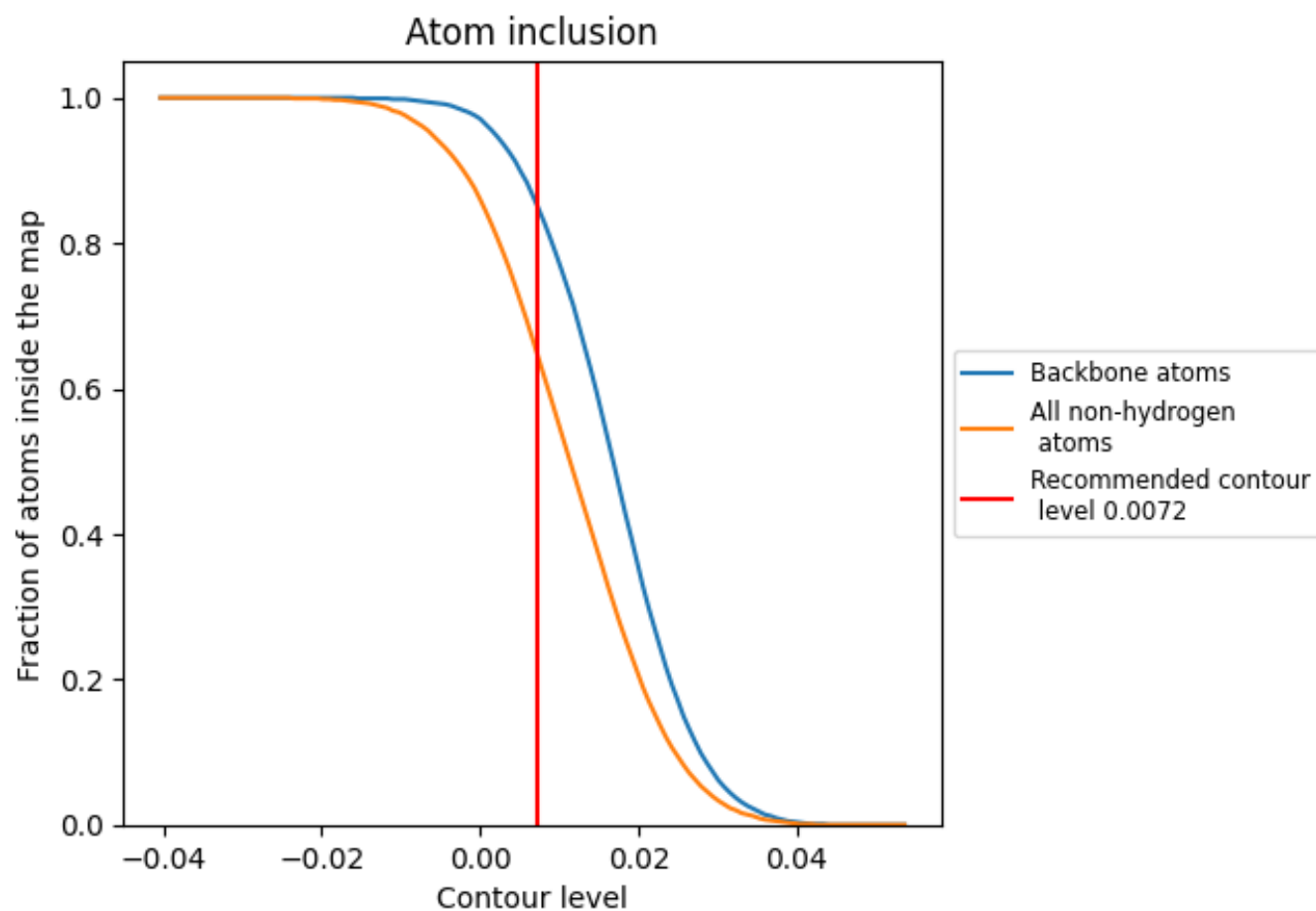
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0072).

9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 65% 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 (0.0072) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6490	 0.1140
1	 0.6150	 0.1140
2	 0.6220	 0.1250
3	 0.6140	 0.1170
4	 0.6210	 0.1240
5	 0.6180	 0.1200
6	 0.6230	 0.1150
7	 0.6410	 0.1110
A	 0.6770	 0.1260
B	 0.6760	 0.1320
C	 0.6800	 0.1260
D	 0.6780	 0.1340
E	 0.6840	 0.1250
F	 0.6840	 0.1240
G	 0.6840	 0.1240
H	 0.6310	 0.1010
I	 0.6500	 0.1000
J	 0.6700	 0.1110
K	 0.6700	 0.1060
L	 0.6220	 0.0890
M	 0.6080	 0.0880
a	 0.6940	 0.1220
b	 0.6880	 0.1260
c	 0.6710	 0.1180
d	 0.6680	 0.1180
e	 0.6820	 0.1220
f	 0.6730	 0.1140
g	 0.6740	 0.1220
h	 0.6150	 0.1160
i	 0.6200	 0.1120
j	 0.6150	 0.1180
k	 0.6140	 0.1170
l	 0.6120	 0.1130
m	 0.6060	 0.1020
n	 0.6050	 0.1090

