



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 07:41 PM UTC

PDB ID : 4USN / pdb_00004usn
EMDB ID : EMD-2706
Title : The structure of the immature HIV-1 capsid in intact virus particles at sub-nm resolution
Authors : Schur, F.K.M.; Hagen, W.J.H.; Rumlova, M.; Ruml, T.; Mueller, B.; Kraeuslich, H.-G.; Briggs, J.A.G.
Deposited on : 2014-07-11
Resolution : 8.80 Å(reported)
Based on initial models : 3DS2, 1L6N

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

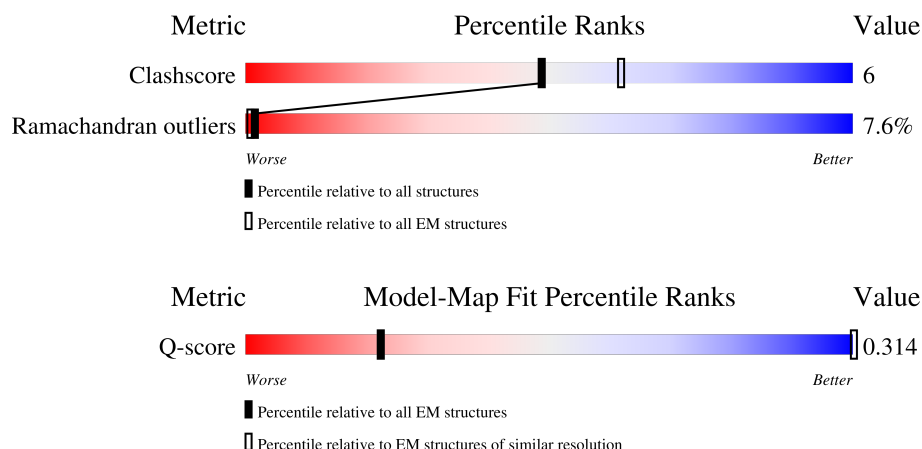
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 8.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Q-score	-	25397	265 (8.30 - 9.30)

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	210	15% 29% 59% 13%
1	B	210	14% 30% 62% 8%
1	C	210	15% 37% 57% 6%
1	D	210	15% 31% 59% 10%
1	E	210	16% 37% 57% 6%

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Mol	Chain	Length	Quality of chain
1	F	210	
1	G	210	
1	H	210	
1	I	210	
1	J	210	
1	K	210	
1	L	210	
1	M	210	
1	N	210	
1	O	210	
1	P	210	
1	Q	210	
1	R	210	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 22662 atoms, of which 7542 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 P24.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	B	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	C	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	D	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	E	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	F	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	G	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	H	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	I	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	J	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	K	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	L	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	M	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	N	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	O	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	P	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		
1	Q	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	210	Total	C	H	N	O	0	0
			1259	420	419	210	210		

There are 54 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	207	GLU	ASP	conflict	UNP Q9IVM8
A	301	ALA	TYR	conflict	UNP Q9IVM8
A	340	GLY	ALA	conflict	UNP Q9IVM8
B	207	GLU	ASP	conflict	UNP Q9IVM8
B	301	ALA	TYR	conflict	UNP Q9IVM8
B	340	GLY	ALA	conflict	UNP Q9IVM8
C	207	GLU	ASP	conflict	UNP Q9IVM8
C	301	ALA	TYR	conflict	UNP Q9IVM8
C	340	GLY	ALA	conflict	UNP Q9IVM8
D	207	GLU	ASP	conflict	UNP Q9IVM8
D	301	ALA	TYR	conflict	UNP Q9IVM8
D	340	GLY	ALA	conflict	UNP Q9IVM8
E	207	GLU	ASP	conflict	UNP Q9IVM8
E	301	ALA	TYR	conflict	UNP Q9IVM8
E	340	GLY	ALA	conflict	UNP Q9IVM8
F	207	GLU	ASP	conflict	UNP Q9IVM8
F	301	ALA	TYR	conflict	UNP Q9IVM8
F	340	GLY	ALA	conflict	UNP Q9IVM8
G	207	GLU	ASP	conflict	UNP Q9IVM8
G	301	ALA	TYR	conflict	UNP Q9IVM8
G	340	GLY	ALA	conflict	UNP Q9IVM8
H	207	GLU	ASP	conflict	UNP Q9IVM8
H	301	ALA	TYR	conflict	UNP Q9IVM8
H	340	GLY	ALA	conflict	UNP Q9IVM8
I	207	GLU	ASP	conflict	UNP Q9IVM8
I	301	ALA	TYR	conflict	UNP Q9IVM8
I	340	GLY	ALA	conflict	UNP Q9IVM8
J	207	GLU	ASP	conflict	UNP Q9IVM8
J	301	ALA	TYR	conflict	UNP Q9IVM8
J	340	GLY	ALA	conflict	UNP Q9IVM8
K	207	GLU	ASP	conflict	UNP Q9IVM8
K	301	ALA	TYR	conflict	UNP Q9IVM8
K	340	GLY	ALA	conflict	UNP Q9IVM8
L	207	GLU	ASP	conflict	UNP Q9IVM8
L	301	ALA	TYR	conflict	UNP Q9IVM8
L	340	GLY	ALA	conflict	UNP Q9IVM8

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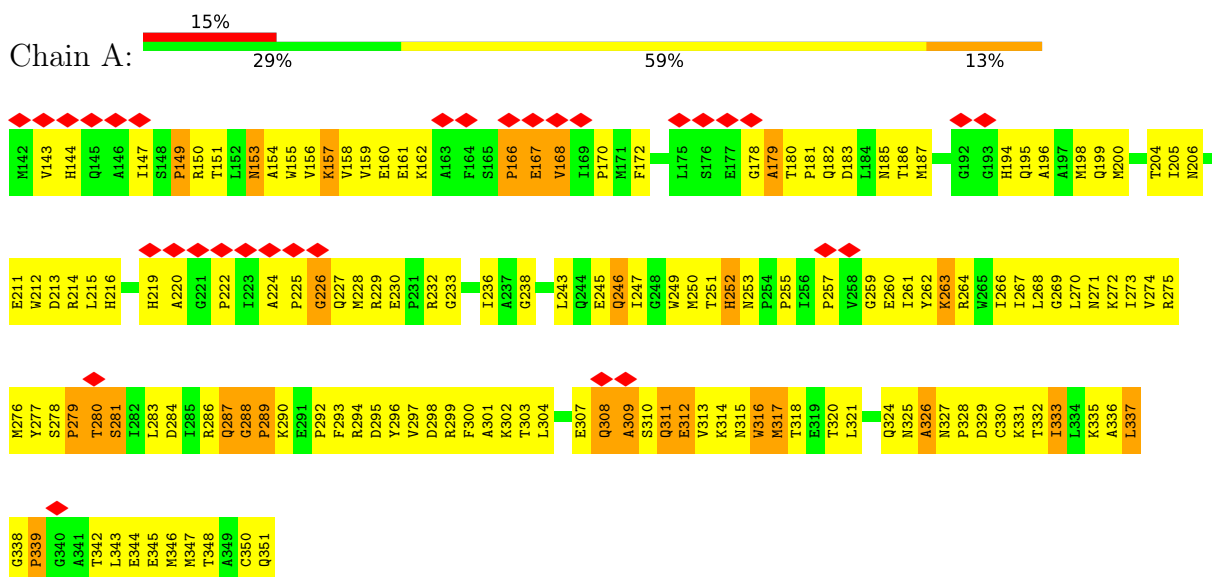
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Chain	Residue	Modelled	Actual	Comment	Reference
M	207	GLU	ASP	conflict	UNP Q9IVM8
M	301	ALA	TYR	conflict	UNP Q9IVM8
M	340	GLY	ALA	conflict	UNP Q9IVM8
N	207	GLU	ASP	conflict	UNP Q9IVM8
N	301	ALA	TYR	conflict	UNP Q9IVM8
N	340	GLY	ALA	conflict	UNP Q9IVM8
O	207	GLU	ASP	conflict	UNP Q9IVM8
O	301	ALA	TYR	conflict	UNP Q9IVM8
O	340	GLY	ALA	conflict	UNP Q9IVM8
P	207	GLU	ASP	conflict	UNP Q9IVM8
P	301	ALA	TYR	conflict	UNP Q9IVM8
P	340	GLY	ALA	conflict	UNP Q9IVM8
Q	207	GLU	ASP	conflict	UNP Q9IVM8
Q	301	ALA	TYR	conflict	UNP Q9IVM8
Q	340	GLY	ALA	conflict	UNP Q9IVM8
R	207	GLU	ASP	conflict	UNP Q9IVM8
R	301	ALA	TYR	conflict	UNP Q9IVM8
R	340	GLY	ALA	conflict	UNP Q9IVM8

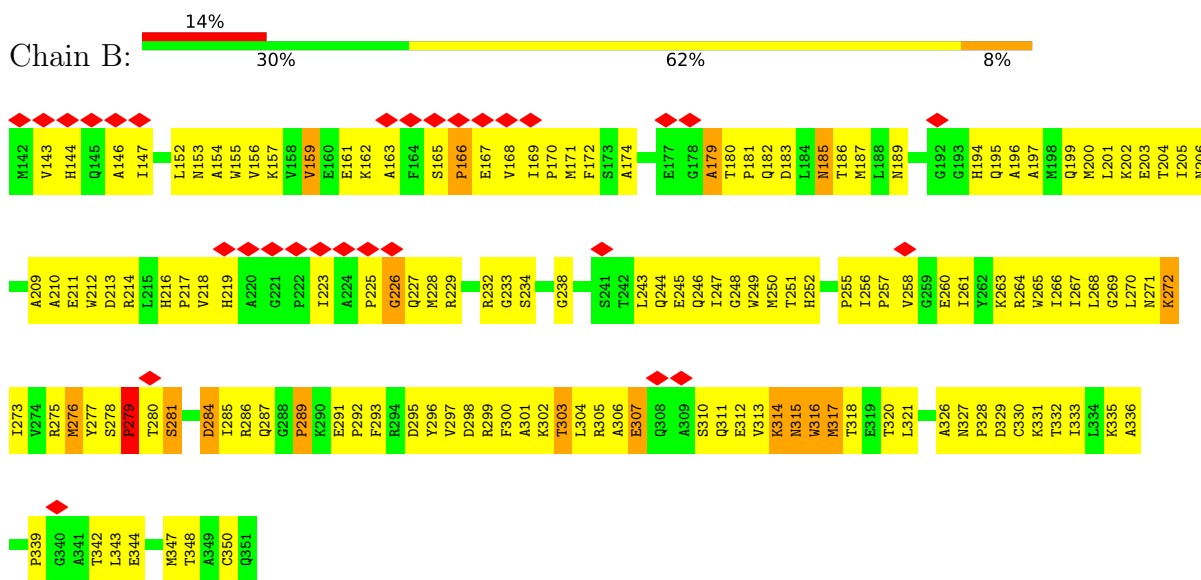
3 Residue-property plots

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.

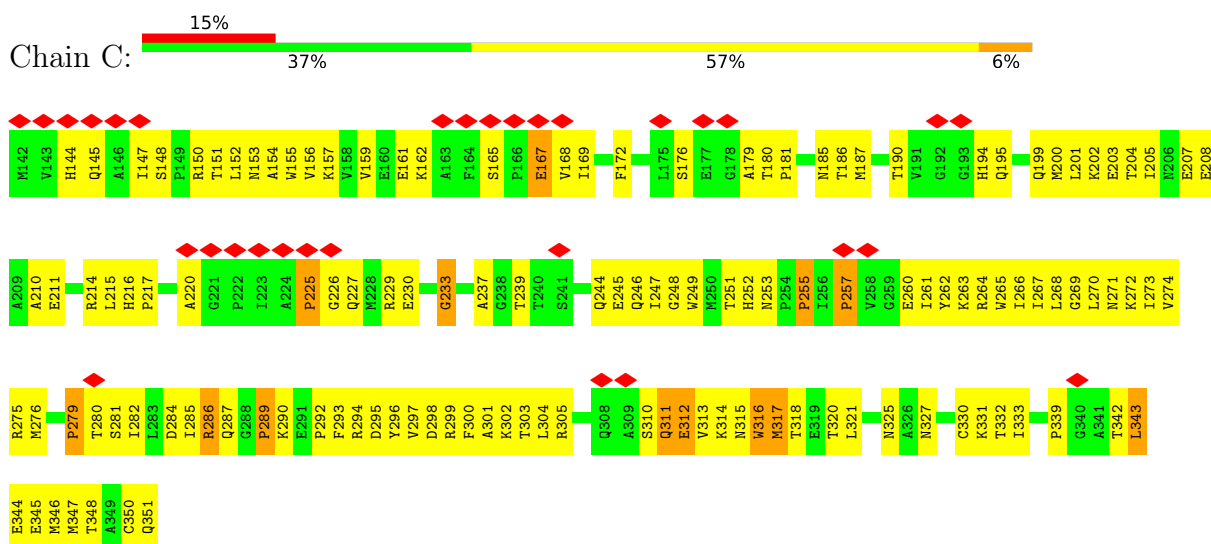
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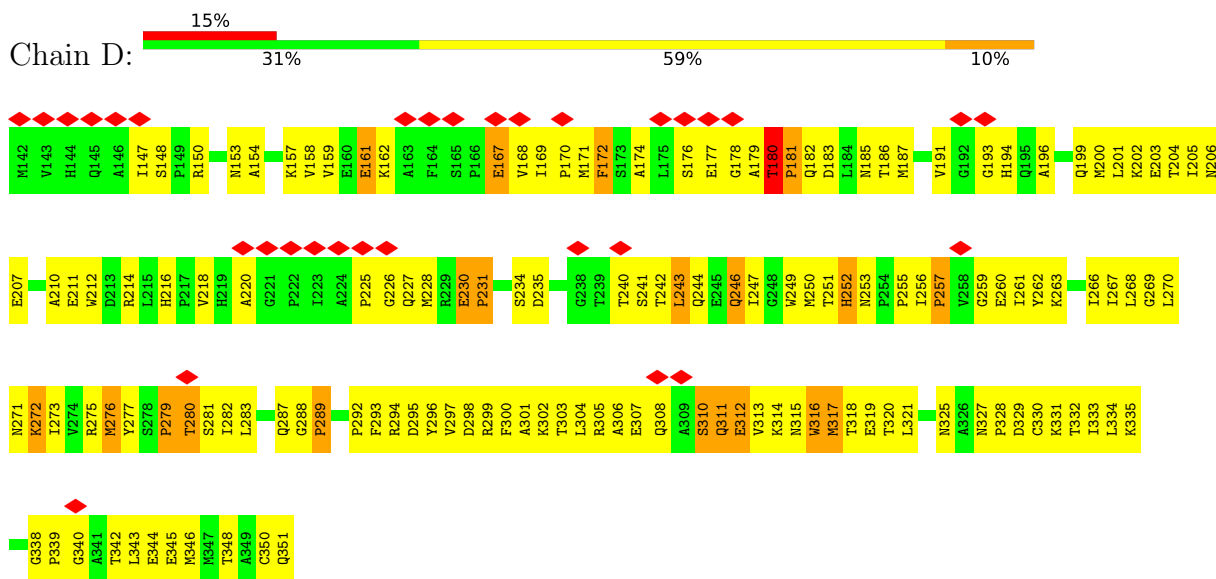
• Molecule 1: P24



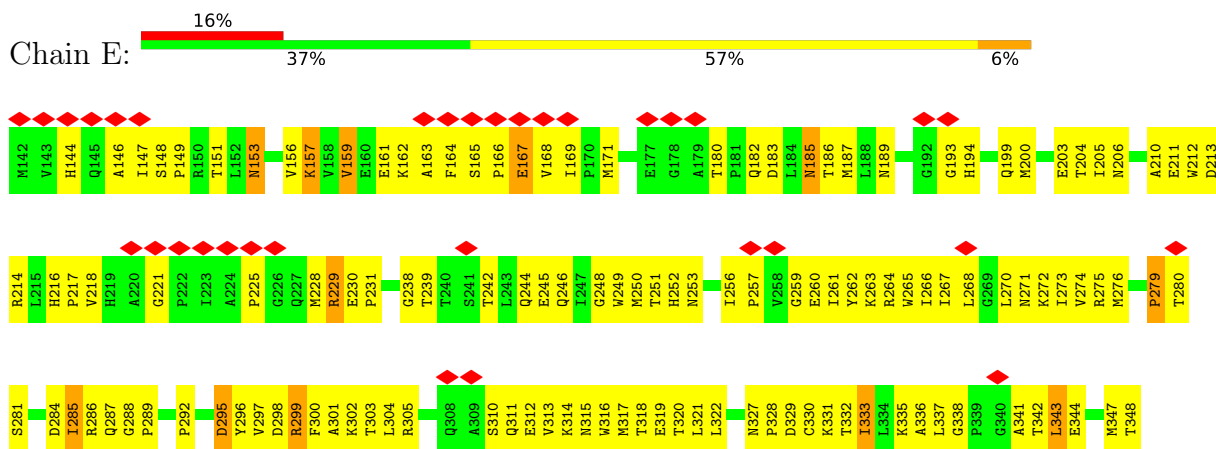
• Molecule 1: P24



• Molecule 1: P24

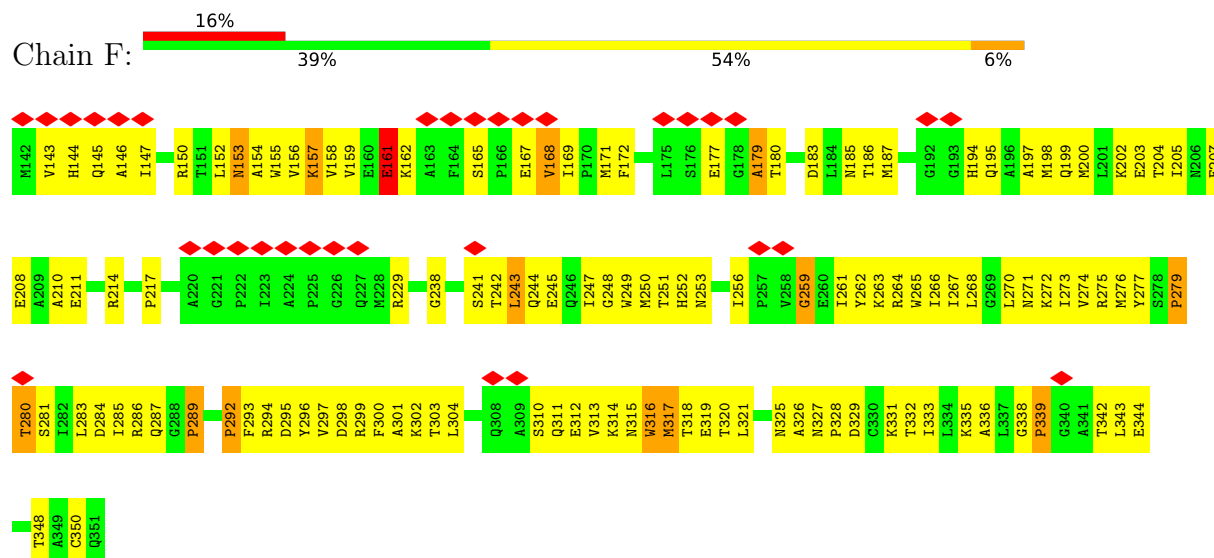


• Molecule 1: P24

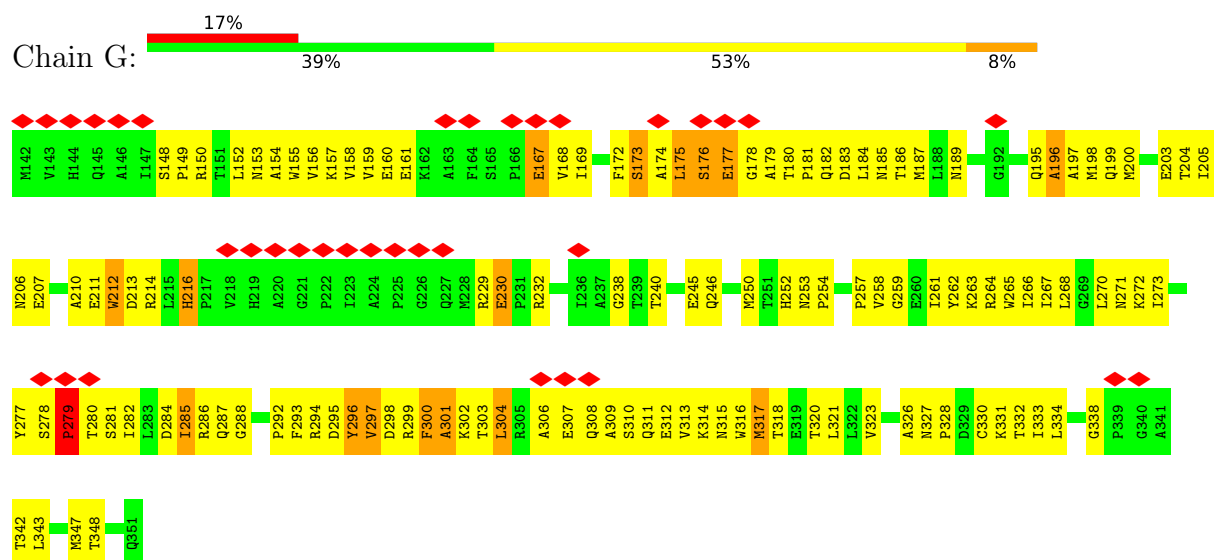


A349
C350
Q351

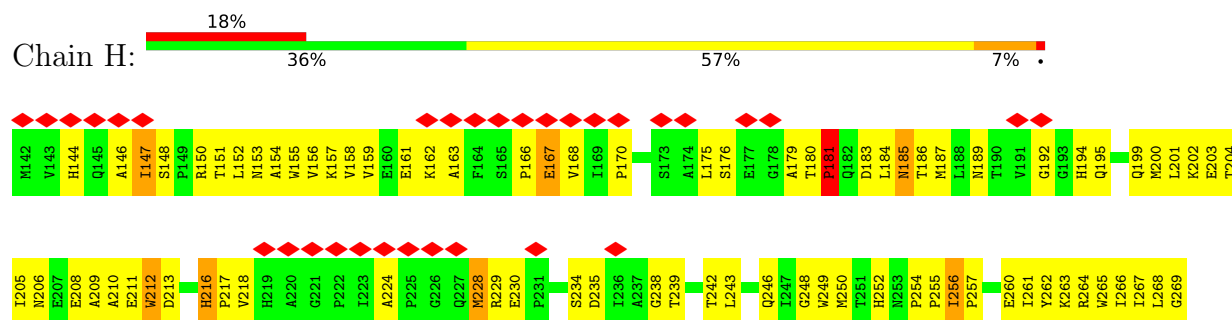
• Molecule 1: P24



• Molecule 1: P24

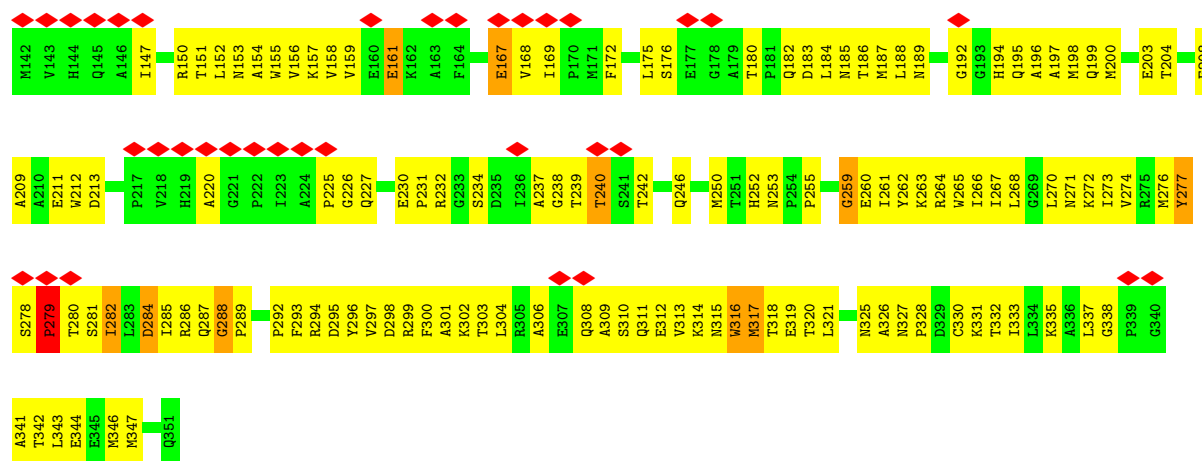


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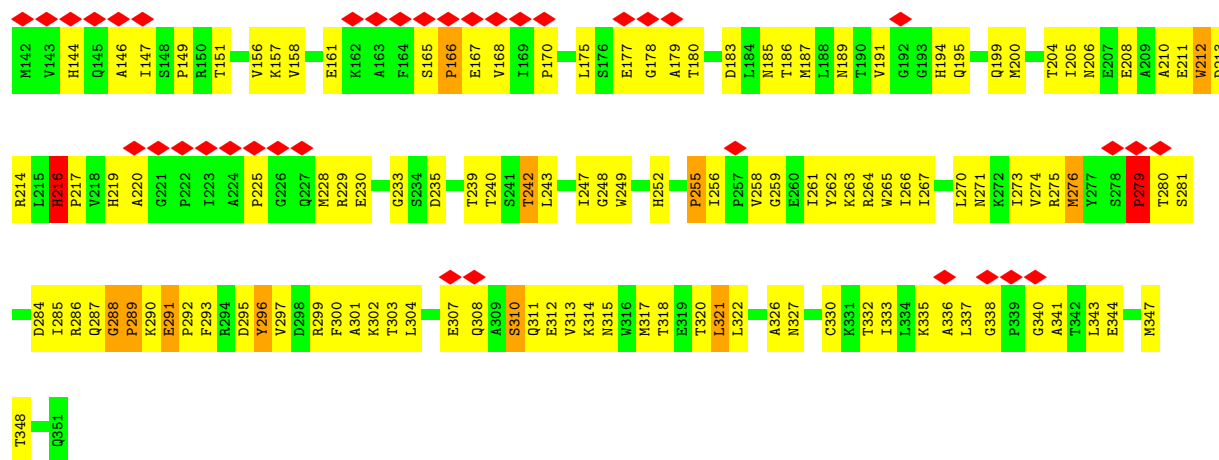




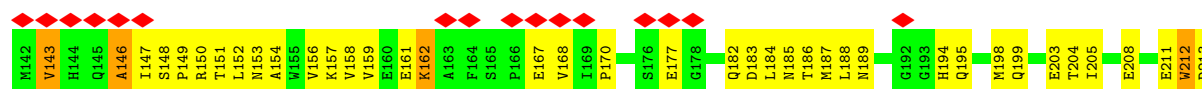
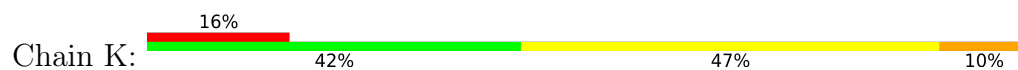
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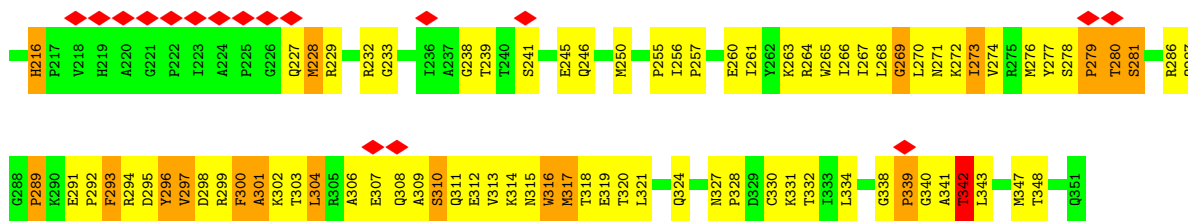


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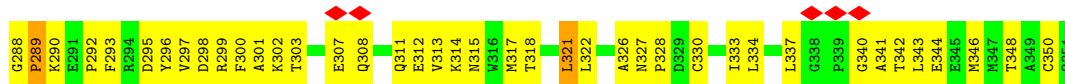


• Molecule 1: P24





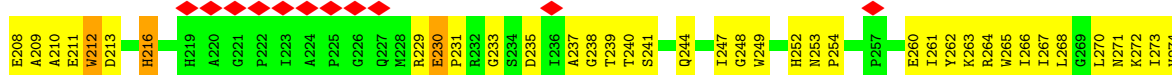
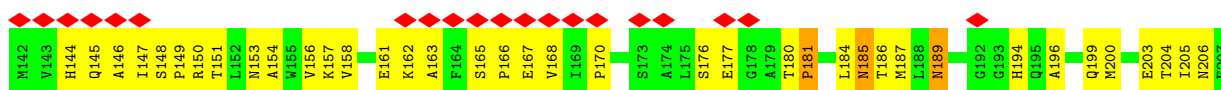
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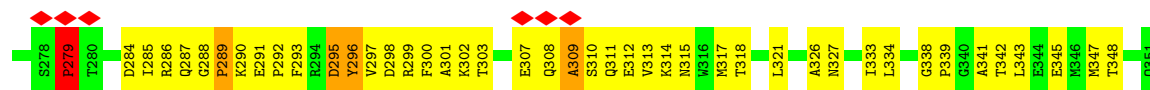


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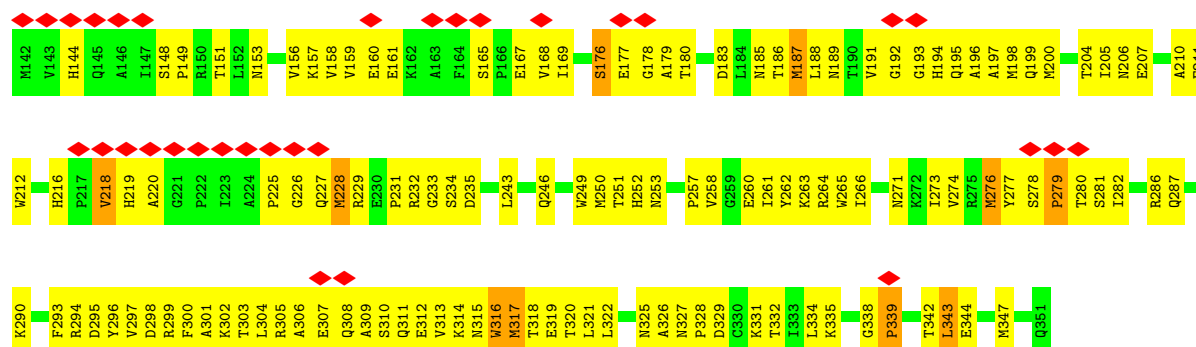


• Molecule 1: P24

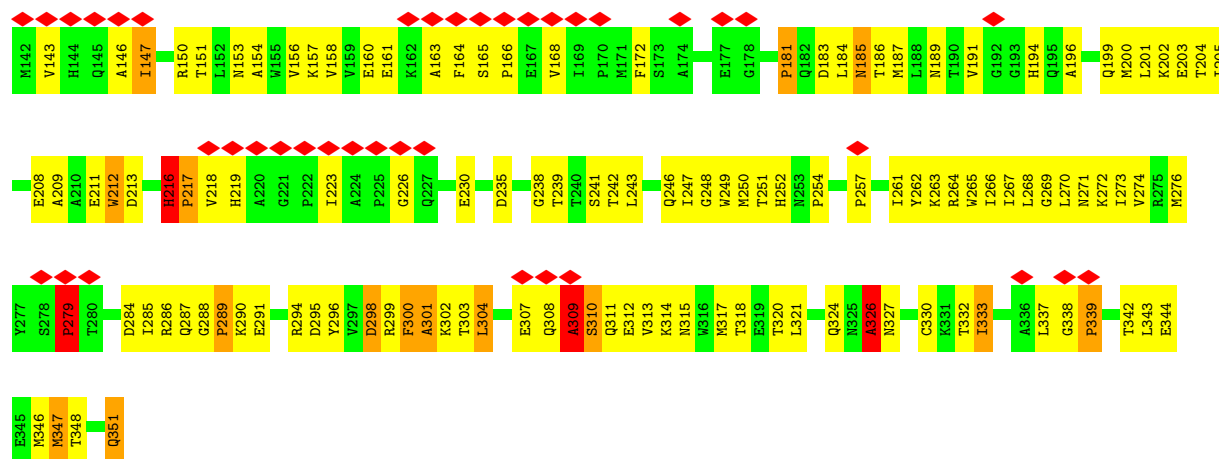




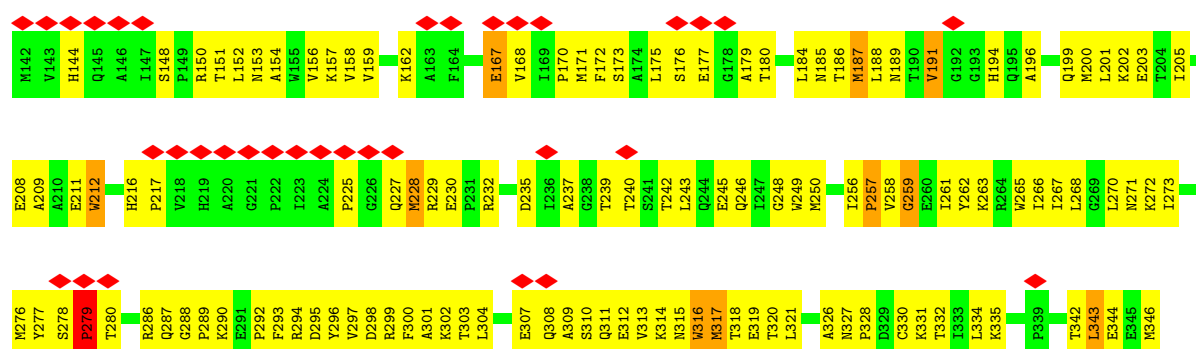
• Molecule 1: P24



• Molecule 1: P24

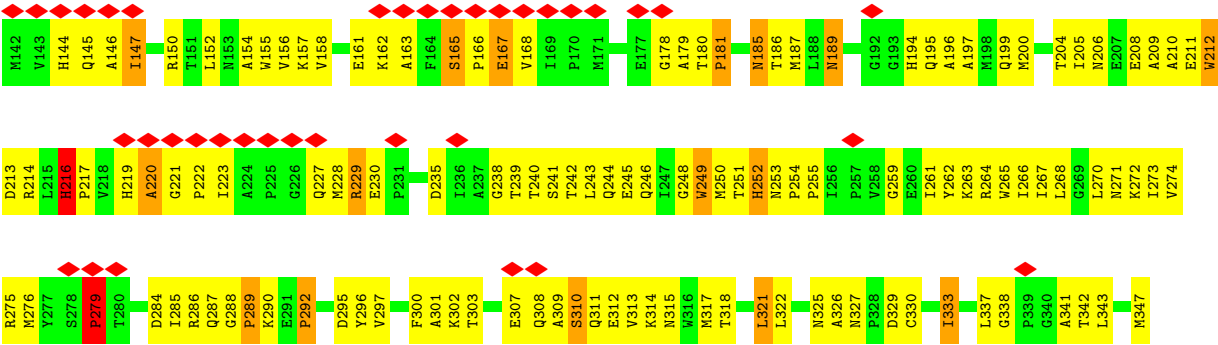


• Molecule 1: P24





• Molecule 1: P24



4 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C6	Depositor
Number of tilted images used	Not provided	
Resolution determination method	Not provided	
CTF correction method	PHASE FLIPPING OF INDIVIDUAL TILTS	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	42000	Depositor
Image detector	GATAN MULTISCAN	Depositor
Maximum voxel value	0.870	Depositor
Minimum voxel value	-0.726	Depositor
Average voxel value	-0.004	Depositor
Voxel value standard deviation	0.098	Depositor
Recommended contour level	0.27	Depositor
Tomogram size (Å)	283.5, 283.5, 283.5	wwPDB
Tomogram dimensions	140, 140, 140	wwPDB
Tomogram angles (°)	90.0, 90.0, 90.0	wwPDB
Grid spacing (Å)	2.025, 2.025, 2.025	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	3.50	116/839 (13.8%)	3.03	106/1047 (10.1%)
1	B	3.43	120/839 (14.3%)	3.12	108/1047 (10.3%)
1	C	3.45	121/839 (14.4%)	2.89	88/1047 (8.4%)
1	D	3.43	118/839 (14.1%)	2.92	86/1047 (8.2%)
1	E	3.47	112/839 (13.3%)	2.95	80/1047 (7.6%)
1	F	3.48	116/839 (13.8%)	2.82	77/1047 (7.4%)
1	G	3.36	113/839 (13.5%)	2.86	94/1047 (9.0%)
1	H	3.32	109/839 (13.0%)	3.02	82/1047 (7.8%)
1	I	3.32	119/839 (14.2%)	2.90	88/1047 (8.4%)
1	J	3.22	90/839 (10.7%)	2.94	76/1047 (7.3%)
1	K	3.21	95/839 (11.3%)	2.94	88/1047 (8.4%)
1	L	3.19	87/839 (10.4%)	2.88	86/1047 (8.2%)
1	M	3.37	113/839 (13.5%)	2.88	84/1047 (8.0%)
1	N	3.34	113/839 (13.5%)	3.02	103/1047 (9.8%)
1	O	3.34	111/839 (13.2%)	2.90	93/1047 (8.9%)
1	P	3.32	108/839 (12.9%)	2.96	98/1047 (9.4%)
1	Q	3.35	114/839 (13.6%)	2.78	78/1047 (7.4%)
1	R	3.38	115/839 (13.7%)	2.92	84/1047 (8.0%)
All	All	3.36	1990/15102 (13.2%)	2.93	1599/18846 (8.5%)

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	9
1	B	0	6
1	C	0	6
1	D	0	12
1	E	0	2
1	F	0	9
1	G	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	14
1	I	0	5
1	J	0	12
1	K	0	5
1	L	0	6
1	M	0	5
1	N	0	5
1	O	0	6
1	P	0	5
1	Q	0	2
1	R	0	6
All	All	0	118

All (1990) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	185	ASN	CA-C	-12.48	1.36	1.52
1	F	295	ASP	CA-C	-12.35	1.36	1.52
1	Q	295	ASP	CA-C	-12.16	1.37	1.52
1	C	297	VAL	CA-C	-12.07	1.37	1.52
1	G	318	THR	CA-C	-11.96	1.37	1.52
1	Q	314	LYS	CA-C	-11.96	1.37	1.52
1	B	299	ARG	CA-C	-11.63	1.37	1.52
1	E	211	GLU	CA-C	-11.24	1.38	1.52
1	A	299	ARG	CA-C	-10.97	1.38	1.52
1	C	211	GLU	CA-C	-10.96	1.38	1.52
1	M	295	ASP	CA-C	-10.91	1.38	1.52
1	A	302	LYS	CA-C	-10.88	1.38	1.52
1	F	299	ARG	CA-C	-10.84	1.38	1.52
1	J	185	ASN	CA-C	-10.84	1.38	1.52
1	E	299	ARG	CA-C	-10.75	1.39	1.52
1	N	185	ASN	CA-C	-10.71	1.38	1.52
1	D	295	ASP	CA-C	-10.66	1.39	1.52
1	G	327	ASN	CA-C	-10.64	1.40	1.52
1	D	313	VAL	CA-C	-10.59	1.39	1.52
1	E	332	THR	CA-C	-10.59	1.39	1.52
1	R	185	ASN	CA-C	-10.55	1.39	1.52
1	H	303	THR	CA-C	-10.53	1.39	1.52
1	A	317	MET	CA-C	-10.51	1.39	1.52
1	A	276	MET	CA-C	-10.46	1.39	1.52
1	R	272	LYS	CA-C	-10.43	1.39	1.52
1	O	295	ASP	CA-C	-10.40	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	332	THR	CA-C	-10.35	1.39	1.52
1	M	296	TYR	CA-C	-10.33	1.39	1.52
1	E	267	ILE	CA-C	-10.29	1.39	1.52
1	B	211	GLU	CA-C	-10.26	1.39	1.52
1	E	296	TYR	CA-C	-10.22	1.39	1.52
1	H	299	ARG	CA-C	-10.21	1.39	1.52
1	I	295	ASP	CA-C	-10.18	1.39	1.52
1	J	271	ASN	CA-C	-10.17	1.39	1.52
1	E	314	LYS	CA-C	-10.13	1.39	1.52
1	K	300	PHE	N-CA	-10.12	1.34	1.46
1	P	314	LYS	CA-C	-10.12	1.39	1.52
1	P	239	THR	CA-C	-10.11	1.44	1.52
1	D	211	GLU	CA-C	-10.10	1.39	1.52
1	I	297	VAL	CA-C	-10.09	1.39	1.52
1	K	314	LYS	CA-C	-10.08	1.39	1.52
1	F	302	LYS	CA-C	-10.03	1.40	1.52
1	R	314	LYS	CA-C	-10.02	1.39	1.52
1	E	295	ASP	CA-C	-10.00	1.39	1.52
1	O	300	PHE	CA-C	-9.92	1.40	1.52
1	P	295	ASP	CA-C	-9.91	1.40	1.52
1	H	274	VAL	CA-C	-9.89	1.40	1.52
1	N	161	GLU	CA-C	-9.87	1.40	1.52
1	B	186	THR	CA-C	-9.85	1.40	1.52
1	K	296	TYR	CA-C	-9.82	1.40	1.52
1	R	211	GLU	CA-C	-9.80	1.40	1.52
1	O	314	LYS	CA-C	-9.73	1.40	1.52
1	A	273	ILE	CA-C	-9.73	1.40	1.52
1	A	272	LYS	CA-C	-9.71	1.40	1.52
1	F	273	ILE	CA-C	-9.69	1.41	1.52
1	L	161	GLU	CA-C	-9.69	1.40	1.52
1	F	153	ASN	CA-C	-9.68	1.40	1.52
1	O	313	VAL	CA-C	-9.68	1.40	1.52
1	D	299	ARG	CA-C	-9.67	1.40	1.52
1	K	295	ASP	CA-C	-9.66	1.40	1.52
1	G	316	TRP	CA-C	-9.66	1.39	1.52
1	Q	272	LYS	CA-C	-9.65	1.40	1.52
1	C	300	PHE	CA-C	-9.63	1.40	1.52
1	C	314	LYS	CA-C	-9.63	1.40	1.52
1	M	314	LYS	CA-C	-9.63	1.40	1.52
1	H	300	PHE	N-CA	-9.62	1.34	1.46
1	N	200	MET	CA-C	-9.61	1.40	1.52
1	R	312	GLU	CA-C	-9.60	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	314	LYS	N-CA	-9.59	1.34	1.46
1	G	296	TYR	CA-C	-9.54	1.40	1.52
1	E	273	ILE	CA-C	-9.51	1.40	1.52
1	B	318	THR	CA-C	-9.50	1.40	1.52
1	J	256	ILE	N-CA	-9.48	1.37	1.46
1	N	295	ASP	CA-C	-9.48	1.40	1.52
1	I	314	LYS	CA-C	-9.48	1.40	1.52
1	A	295	ASP	CA-C	-9.48	1.40	1.52
1	F	211	GLU	CA-C	-9.47	1.40	1.52
1	N	302	LYS	CA-C	-9.46	1.40	1.52
1	D	267	ILE	CA-C	-9.41	1.40	1.52
1	N	314	LYS	CA-C	-9.40	1.40	1.52
1	A	267	ILE	CA-C	-9.40	1.40	1.52
1	D	158	VAL	CA-C	-9.40	1.40	1.52
1	F	314	LYS	CA-C	-9.37	1.40	1.52
1	K	272	LYS	CA-C	-9.36	1.40	1.52
1	C	287	GLN	CA-C	-9.35	1.41	1.52
1	F	287	GLN	CA-C	-9.33	1.40	1.53
1	F	313	VAL	CA-C	-9.31	1.41	1.52
1	B	276	MET	CA-C	-9.28	1.40	1.52
1	F	157	LYS	CA-C	-9.27	1.40	1.52
1	A	211	GLU	CA-C	-9.26	1.40	1.52
1	Q	286	ARG	CA-C	-9.26	1.41	1.52
1	M	313	VAL	CA-C	-9.26	1.40	1.52
1	J	311	GLN	CA-C	-9.25	1.41	1.52
1	I	342	THR	CA-C	-9.23	1.41	1.52
1	I	313	VAL	CA-C	-9.22	1.40	1.52
1	L	200	MET	CA-C	-9.22	1.40	1.52
1	D	157	LYS	CA-C	-9.22	1.41	1.52
1	M	204	THR	CA-C	-9.20	1.40	1.52
1	C	332	THR	CA-C	-9.19	1.40	1.52
1	N	186	THR	CA-C	-9.19	1.40	1.52
1	J	248	GLY	CA-C	-9.17	1.42	1.52
1	B	314	LYS	CA-C	-9.12	1.40	1.52
1	M	295	ASP	N-CA	-9.08	1.35	1.46
1	P	151	THR	CA-C	-9.08	1.41	1.52
1	D	302	LYS	CA-C	-9.06	1.41	1.52
1	F	342	THR	CA-C	-9.06	1.41	1.52
1	K	295	ASP	N-CA	-9.06	1.35	1.46
1	E	313	VAL	CA-C	-9.05	1.41	1.52
1	R	157	LYS	CA-C	-9.04	1.41	1.52
1	L	314	LYS	CA-C	-9.04	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	186	THR	CA-C	-9.03	1.41	1.52
1	E	300	PHE	N-CA	-9.02	1.35	1.46
1	M	300	PHE	N-CA	-9.01	1.35	1.46
1	O	318	THR	CA-C	-8.99	1.41	1.52
1	C	318	THR	CA-C	-8.98	1.41	1.52
1	A	157	LYS	CA-C	-8.98	1.41	1.52
1	R	313	VAL	N-CA	-8.96	1.35	1.46
1	G	261	ILE	CA-C	-8.96	1.42	1.52
1	B	313	VAL	CA-C	-8.93	1.41	1.52
1	F	276	MET	CA-C	-8.92	1.40	1.52
1	L	313	VAL	N-CA	-8.91	1.35	1.46
1	B	295	ASP	CA-C	-8.90	1.41	1.52
1	R	212	TRP	CA-C	-8.90	1.41	1.52
1	D	318	THR	CA-C	-8.88	1.41	1.52
1	P	161	GLU	CA-C	-8.86	1.41	1.52
1	R	200	MET	CA-C	-8.86	1.41	1.52
1	E	203	GLU	CA-C	-8.85	1.41	1.52
1	G	295	ASP	CA-C	-8.83	1.40	1.52
1	R	311	GLN	CA-C	-8.83	1.41	1.52
1	F	318	THR	CA-C	-8.82	1.41	1.52
1	R	286	ARG	CA-C	-8.82	1.41	1.52
1	F	332	THR	CA-C	-8.81	1.41	1.52
1	A	271	ASN	CA-C	-8.80	1.41	1.52
1	L	295	ASP	CA-C	-8.78	1.41	1.52
1	R	295	ASP	CA-C	-8.78	1.41	1.52
1	H	313	VAL	N-CA	-8.78	1.36	1.46
1	L	299	ARG	CA-C	-8.76	1.41	1.52
1	H	263	LYS	CA-C	-8.73	1.41	1.52
1	B	267	ILE	CA-C	-8.67	1.41	1.52
1	C	295	ASP	CA-C	-8.66	1.41	1.52
1	G	314	LYS	CA-C	-8.65	1.41	1.52
1	E	297	VAL	CA-C	-8.63	1.41	1.52
1	E	342	THR	CA-C	-8.63	1.41	1.53
1	B	185	ASN	CA-C	-8.63	1.41	1.52
1	H	161	GLU	CA-C	-8.62	1.41	1.52
1	L	271	ASN	CA-C	-8.62	1.41	1.52
1	Q	261	ILE	CA-C	-8.60	1.41	1.52
1	Q	294	ARG	N-CA	-8.60	1.36	1.46
1	P	185	ASN	CA-C	-8.59	1.41	1.52
1	O	296	TYR	CA-C	-8.58	1.41	1.52
1	D	276	MET	CA-C	-8.57	1.41	1.52
1	A	263	LYS	CA-C	-8.56	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	300	PHE	N-CA	-8.56	1.36	1.46
1	F	272	LYS	CA-C	-8.55	1.41	1.52
1	H	311	GLN	CA-C	-8.55	1.41	1.52
1	R	161	GLU	CA-C	-8.55	1.42	1.52
1	R	296	TYR	CA-C	-8.54	1.42	1.52
1	K	204	THR	CA-C	-8.52	1.41	1.52
1	Q	343	LEU	N-CA	-8.51	1.36	1.46
1	F	303	THR	CA-C	-8.50	1.41	1.52
1	A	298	ASP	CA-C	-8.49	1.41	1.52
1	C	161	GLU	CA-C	-8.49	1.42	1.52
1	O	211	GLU	CA-C	-8.49	1.41	1.52
1	G	263	LYS	CA-C	-8.48	1.41	1.52
1	F	295	ASP	N-CA	-8.47	1.36	1.46
1	M	263	LYS	CA-C	-8.46	1.41	1.52
1	M	314	LYS	N-CA	-8.46	1.36	1.46
1	E	272	LYS	CA-C	-8.45	1.42	1.52
1	G	296	TYR	N-CA	-8.43	1.36	1.46
1	J	186	THR	CA-C	-8.43	1.42	1.52
1	L	265	TRP	CA-C	-8.42	1.42	1.52
1	R	274	VAL	CA-C	-8.42	1.42	1.52
1	H	270	LEU	C-N	-8.40	1.23	1.33
1	L	249	TRP	CA-C	-8.40	1.41	1.52
1	C	248	GLY	CA-C	-8.39	1.43	1.52
1	G	314	LYS	N-CA	-8.39	1.36	1.46
1	H	272	LYS	N-CA	-8.39	1.36	1.46
1	H	239	THR	CA-C	-8.38	1.45	1.52
1	L	311	GLN	CA-C	-8.39	1.42	1.52
1	J	296	TYR	CA-C	-8.38	1.41	1.52
1	N	204	THR	CA-C	-8.38	1.41	1.52
1	I	152	LEU	CA-C	-8.35	1.42	1.52
1	F	298	ASP	CA-C	-8.34	1.42	1.52
1	I	302	LYS	CA-C	-8.32	1.42	1.52
1	K	294	ARG	CA-C	-8.32	1.42	1.52
1	G	153	ASN	CA-C	-8.32	1.42	1.52
1	N	313	VAL	N-CA	-8.32	1.36	1.46
1	P	270	LEU	C-N	-8.31	1.23	1.33
1	C	216	HIS	N-CA	-8.31	1.37	1.46
1	C	316	TRP	CA-C	-8.31	1.42	1.52
1	E	314	LYS	N-CA	-8.31	1.36	1.46
1	M	327	ASN	CA-C	-8.30	1.44	1.53
1	D	298	ASP	CA-C	-8.29	1.42	1.52
1	Q	316	TRP	CA-C	-8.29	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	316	TRP	CA-C	-8.29	1.42	1.52
1	J	313	VAL	N-CA	-8.29	1.36	1.46
1	O	263	LYS	CA-C	-8.29	1.42	1.52
1	C	313	VAL	CA-C	-8.29	1.42	1.52
1	R	248	GLY	CA-C	-8.27	1.43	1.52
1	O	246	GLN	CA-C	-8.26	1.41	1.52
1	P	187	MET	N-CA	-8.26	1.36	1.46
1	F	316	TRP	CA-C	-8.26	1.42	1.52
1	D	272	LYS	CA-C	-8.25	1.41	1.52
1	O	157	LYS	CA-C	-8.25	1.41	1.52
1	A	303	THR	CA-C	-8.24	1.42	1.52
1	E	248	GLY	CA-C	-8.23	1.43	1.52
1	A	295	ASP	N-CA	-8.22	1.36	1.46
1	L	186	THR	CA-C	-8.22	1.42	1.52
1	E	187	MET	CA-C	-8.21	1.42	1.52
1	O	302	LYS	CA-C	-8.20	1.42	1.52
1	A	320	THR	CA-C	-8.20	1.41	1.52
1	E	296	TYR	N-CA	-8.20	1.36	1.46
1	I	273	ILE	N-CA	-8.18	1.36	1.46
1	H	314	LYS	CA-C	-8.18	1.42	1.52
1	R	321	LEU	CA-C	-8.18	1.41	1.52
1	K	246	GLN	CA-C	-8.17	1.42	1.52
1	N	248	GLY	CA-C	-8.16	1.43	1.52
1	M	246	GLN	CA-C	-8.15	1.42	1.52
1	G	211	GLU	CA-C	-8.14	1.42	1.52
1	A	313	VAL	N-CA	-8.14	1.36	1.46
1	D	314	LYS	N-CA	-8.14	1.36	1.46
1	A	246	GLN	CA-C	-8.13	1.42	1.52
1	B	212	TRP	N-CA	-8.13	1.36	1.46
1	G	313	VAL	CA-C	-8.13	1.42	1.52
1	G	300	PHE	N-CA	-8.12	1.36	1.46
1	J	265	TRP	CA-C	-8.12	1.42	1.52
1	F	286	ARG	CA-C	-8.12	1.42	1.52
1	E	318	THR	CA-C	-8.11	1.42	1.52
1	C	298	ASP	N-CA	-8.11	1.36	1.46
1	B	299	ARG	N-CA	-8.09	1.36	1.46
1	Q	184	LEU	CA-C	-8.08	1.42	1.52
1	G	298	ASP	CA-C	-8.07	1.42	1.52
1	G	342	THR	CA-C	-8.07	1.42	1.52
1	J	312	GLU	CA-C	-8.06	1.42	1.52
1	N	299	ARG	CA-C	-8.05	1.42	1.52
1	Q	296	TYR	N-CA	-8.05	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	316	TRP	N-CA	-8.05	1.36	1.46
1	O	332	THR	CA-C	-8.04	1.42	1.52
1	I	314	LYS	N-CA	-8.04	1.36	1.46
1	J	249	TRP	CA-C	-8.04	1.42	1.52
1	D	331	LYS	CA-C	-8.04	1.42	1.52
1	E	186	THR	CA-C	-8.03	1.42	1.52
1	O	261	ILE	CA-C	-8.03	1.43	1.52
1	A	296	TYR	CA-C	-8.02	1.42	1.52
1	C	172	PHE	CA-C	-8.02	1.42	1.52
1	I	318	THR	CA-C	-8.02	1.42	1.52
1	L	151	THR	CA-C	-8.02	1.42	1.52
1	L	262	TYR	N-CA	-8.02	1.36	1.46
1	N	213	ASP	CA-C	-8.00	1.41	1.52
1	I	297	VAL	N-CA	-7.98	1.36	1.46
1	H	300	PHE	CA-C	-7.98	1.42	1.52
1	Q	330	CYS	CA-C	-7.98	1.42	1.52
1	N	300	PHE	N-CA	-7.97	1.36	1.46
1	N	348	THR	CA-C	-7.97	1.41	1.52
1	R	157	LYS	N-CA	-7.97	1.36	1.46
1	E	263	LYS	CA-C	-7.96	1.42	1.52
1	A	328	PRO	CA-C	-7.96	1.40	1.52
1	Q	318	THR	CA-C	-7.95	1.42	1.52
1	H	158	VAL	CA-C	-7.94	1.42	1.52
1	N	274	VAL	CA-C	-7.94	1.42	1.52
1	L	296	TYR	CA-C	-7.94	1.42	1.52
1	A	344	GLU	CA-C	-7.93	1.42	1.52
1	D	296	TYR	N-CA	-7.93	1.36	1.46
1	A	186	THR	CA-C	-7.92	1.42	1.52
1	C	314	LYS	N-CA	-7.91	1.36	1.46
1	P	313	VAL	N-CA	-7.91	1.37	1.46
1	D	342	THR	CA-C	-7.91	1.42	1.52
1	F	158	VAL	CA-C	-7.91	1.42	1.52
1	H	297	VAL	CA-C	-7.91	1.42	1.52
1	E	185	ASN	CA-C	-7.90	1.42	1.52
1	H	296	TYR	CA-C	-7.90	1.42	1.52
1	P	246	GLN	CA-C	-7.88	1.42	1.52
1	O	296	TYR	N-CA	-7.88	1.36	1.46
1	D	314	LYS	CA-C	-7.87	1.42	1.52
1	O	303	THR	CA-C	-7.87	1.42	1.52
1	D	328	PRO	CA-C	-7.87	1.40	1.52
1	G	302	LYS	CA-C	-7.87	1.42	1.52
1	B	298	ASP	CA-C	-7.85	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	289	PRO	CA-C	-7.85	1.41	1.52
1	I	211	GLU	CA-C	-7.85	1.42	1.52
1	C	342	THR	CA-C	-7.84	1.42	1.53
1	O	321	LEU	CA-C	-7.84	1.42	1.52
1	P	347	MET	CA-C	-7.84	1.42	1.52
1	O	314	LYS	N-CA	-7.84	1.36	1.46
1	B	316	TRP	CA-C	-7.83	1.42	1.52
1	G	348	THR	CA-C	-7.83	1.42	1.52
1	H	211	GLU	CA-C	-7.83	1.42	1.52
1	N	272	LYS	CA-C	-7.83	1.42	1.52
1	I	276	MET	CA-C	-7.82	1.42	1.52
1	K	211	GLU	CA-C	-7.82	1.42	1.52
1	B	157	LYS	CA-C	-7.82	1.42	1.52
1	I	296	TYR	N-CA	-7.82	1.37	1.46
1	M	156	VAL	N-CA	-7.82	1.37	1.46
1	M	321	LEU	CA-C	-7.82	1.42	1.52
1	C	321	LEU	CA-C	-7.81	1.42	1.52
1	K	347	MET	CA-C	-7.81	1.43	1.52
1	E	274	VAL	N-CA	-7.79	1.37	1.46
1	L	266	ILE	N-CA	-7.79	1.37	1.46
1	N	151	THR	CA-C	-7.79	1.42	1.52
1	C	273	ILE	CA-C	-7.79	1.42	1.52
1	C	204	THR	CA-C	-7.78	1.42	1.52
1	P	267	ILE	CA-C	-7.78	1.42	1.52
1	J	211	GLU	CA-C	-7.78	1.42	1.52
1	N	209	ALA	CA-C	-7.78	1.43	1.52
1	O	159	VAL	N-CA	-7.78	1.37	1.46
1	I	246	GLN	CA-C	-7.78	1.43	1.52
1	P	295	ASP	N-CA	-7.78	1.36	1.46
1	Q	331	LYS	CA-C	-7.77	1.42	1.52
1	D	246	GLN	CA-C	-7.75	1.42	1.52
1	R	180	THR	CA-C	-7.74	1.43	1.52
1	D	153	ASN	CA-C	-7.74	1.42	1.52
1	B	332	THR	CA-C	-7.73	1.42	1.52
1	L	302	LYS	CA-C	-7.73	1.42	1.52
1	M	297	VAL	N-CA	-7.73	1.36	1.46
1	B	296	TYR	N-CA	-7.73	1.37	1.46
1	C	301	ALA	N-CA	-7.73	1.37	1.46
1	J	151	THR	CA-C	-7.71	1.42	1.52
1	P	327	ASN	CA-C	-7.71	1.42	1.52
1	B	199	GLN	N-CA	-7.70	1.37	1.46
1	G	347	MET	CA-C	-7.70	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	311	GLN	N-CA	-7.69	1.36	1.46
1	F	314	LYS	N-CA	-7.68	1.37	1.46
1	P	204	THR	CA-C	-7.68	1.42	1.52
1	C	298	ASP	CA-C	-7.68	1.43	1.52
1	Q	300	PHE	N-CA	-7.68	1.37	1.46
1	F	248	GLY	CA-C	-7.66	1.43	1.52
1	I	287	GLN	N-CA	-7.66	1.36	1.46
1	A	313	VAL	CA-C	-7.65	1.43	1.52
1	H	287	GLN	N-CA	-7.65	1.35	1.45
1	F	287	GLN	N-CA	-7.64	1.36	1.46
1	G	156	VAL	CA-C	-7.64	1.43	1.52
1	D	187	MET	CA-C	-7.63	1.42	1.52
1	A	314	LYS	N-CA	-7.63	1.37	1.46
1	J	311	GLN	N-CA	-7.63	1.37	1.46
1	M	342	THR	CA-C	-7.62	1.42	1.52
1	G	150	ARG	CA-C	-7.62	1.43	1.52
1	B	272	LYS	CA-C	-7.62	1.42	1.52
1	I	286	ARG	CA-C	-7.62	1.43	1.52
1	D	317	MET	CA-C	-7.61	1.42	1.52
1	A	204	THR	CA-C	-7.61	1.42	1.52
1	C	199	GLN	CA-C	-7.61	1.43	1.52
1	G	297	VAL	N-CA	-7.61	1.37	1.46
1	E	271	ASN	CA-C	-7.61	1.42	1.52
1	P	320	THR	CA-C	-7.60	1.42	1.52
1	M	269	GLY	CA-C	-7.60	1.43	1.52
1	H	298	ASP	CA-C	-7.59	1.43	1.52
1	J	300	PHE	N-CA	-7.59	1.37	1.46
1	K	270	LEU	C-N	-7.58	1.24	1.33
1	D	186	THR	CA-C	-7.58	1.43	1.52
1	D	270	LEU	C-N	-7.58	1.24	1.33
1	F	342	THR	C-N	-7.57	1.24	1.33
1	C	299	ARG	CA-C	-7.57	1.43	1.52
1	R	252	HIS	CA-C	-7.57	1.43	1.52
1	G	156	VAL	N-CA	-7.56	1.38	1.46
1	P	186	THR	CA-C	-7.56	1.43	1.52
1	B	202	LYS	CA-C	-7.55	1.43	1.52
1	B	314	LYS	N-CA	-7.55	1.37	1.46
1	I	156	VAL	CA-C	-7.55	1.43	1.52
1	R	287	GLN	N-CA	-7.55	1.37	1.46
1	M	156	VAL	CA-C	-7.55	1.43	1.52
1	H	156	VAL	CA-C	-7.54	1.43	1.52
1	N	261	ILE	CA-C	-7.54	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	211	GLU	CA-C	-7.54	1.43	1.52
1	L	286	ARG	CA-C	-7.53	1.43	1.52
1	L	266	ILE	CA-C	-7.52	1.43	1.52
1	K	328	PRO	CA-C	-7.52	1.41	1.52
1	M	286	ARG	CA-C	-7.51	1.43	1.52
1	P	211	GLU	CA-C	-7.51	1.43	1.52
1	C	187	MET	CA-C	-7.51	1.43	1.52
1	B	248	GLY	CA-C	-7.51	1.43	1.52
1	H	261	ILE	CA-C	-7.51	1.43	1.52
1	A	205	ILE	CA-C	-7.51	1.43	1.52
1	I	204	THR	CA-C	-7.51	1.43	1.52
1	N	311	GLN	CA-C	-7.49	1.43	1.52
1	Q	296	TYR	CA-C	-7.49	1.43	1.52
1	N	212	TRP	CA-C	-7.49	1.43	1.52
1	Q	185	ASN	CA-C	-7.47	1.43	1.52
1	J	314	LYS	CA-C	-7.46	1.43	1.52
1	N	311	GLN	N-CA	-7.46	1.37	1.46
1	D	295	ASP	N-CA	-7.45	1.37	1.46
1	L	312	GLU	CA-C	-7.45	1.43	1.52
1	F	180	THR	C-N	-7.44	1.24	1.34
1	K	267	ILE	CA-C	-7.44	1.43	1.52
1	I	300	PHE	CA-C	-7.43	1.43	1.52
1	H	187	MET	CA-C	-7.43	1.43	1.52
1	B	342	THR	CA-C	-7.42	1.43	1.53
1	K	313	VAL	N-CA	-7.42	1.37	1.46
1	M	298	ASP	CA-C	-7.42	1.43	1.52
1	Q	205	ILE	CA-C	-7.42	1.43	1.52
1	E	304	LEU	CA-C	-7.42	1.43	1.52
1	L	261	ILE	CA-C	-7.42	1.43	1.52
1	M	152	LEU	CA-C	-7.42	1.43	1.52
1	N	205	ILE	CA-C	-7.41	1.43	1.52
1	C	299	ARG	N-CA	-7.41	1.37	1.46
1	P	212	TRP	CA-C	-7.41	1.43	1.52
1	G	320	THR	CA-C	-7.41	1.42	1.52
1	B	264	ARG	CA-C	-7.40	1.43	1.52
1	N	194	HIS	CA-C	-7.39	1.45	1.53
1	O	298	ASP	CA-C	-7.39	1.43	1.52
1	O	293	PHE	CA-C	-7.38	1.43	1.52
1	B	303	THR	CA-C	-7.38	1.43	1.52
1	E	161	GLU	CA-C	-7.38	1.43	1.52
1	I	273	ILE	CA-C	-7.38	1.43	1.52
1	G	180	THR	N-CA	-7.37	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	161	GLU	CA-C	-7.37	1.43	1.52
1	R	273	ILE	CA-C	-7.36	1.43	1.52
1	R	326	ALA	CA-C	-7.35	1.43	1.53
1	F	312	GLU	CA-C	-7.35	1.43	1.52
1	C	303	THR	CA-C	-7.33	1.43	1.52
1	M	153	ASN	CA-C	-7.33	1.43	1.52
1	A	318	THR	N-CA	-7.32	1.37	1.46
1	D	200	MET	CA-C	-7.32	1.43	1.52
1	I	301	ALA	N-CA	-7.32	1.37	1.46
1	N	263	LYS	CA-C	-7.32	1.43	1.52
1	D	316	TRP	CA-C	-7.32	1.43	1.52
1	J	295	ASP	CA-C	-7.31	1.43	1.52
1	O	286	ARG	CA-C	-7.31	1.43	1.52
1	P	326	ALA	CA-C	-7.31	1.43	1.53
1	D	185	ASN	CA-C	-7.30	1.43	1.52
1	M	161	GLU	CA-C	-7.30	1.43	1.52
1	O	342	THR	CA-C	-7.30	1.43	1.52
1	F	301	ALA	N-CA	-7.30	1.37	1.46
1	O	249	TRP	CA-C	-7.30	1.43	1.52
1	M	159	VAL	N-CA	-7.29	1.38	1.46
1	F	344	GLU	CA-C	-7.29	1.43	1.52
1	C	302	LYS	CA-C	-7.28	1.43	1.52
1	D	250	MET	CA-C	-7.28	1.43	1.52
1	K	286	ARG	CA-C	-7.28	1.44	1.52
1	P	160	GLU	N-CA	-7.27	1.36	1.46
1	Q	311	GLN	C-N	-7.27	1.24	1.33
1	P	200	MET	CA-C	-7.27	1.43	1.52
1	N	289	PRO	CA-C	-7.26	1.42	1.52
1	C	272	LYS	CA-C	-7.25	1.43	1.52
1	C	186	THR	CA-C	-7.24	1.43	1.52
1	O	294	ARG	N-CA	-7.24	1.37	1.46
1	I	208	GLU	CA-C	-7.24	1.43	1.52
1	R	209	ALA	CA-C	-7.23	1.43	1.52
1	F	267	ILE	CA-C	-7.23	1.43	1.52
1	Q	262	TYR	N-CA	-7.22	1.37	1.46
1	R	197	ALA	CA-C	-7.22	1.43	1.52
1	K	233	GLY	CA-C	-7.22	1.43	1.52
1	M	317	MET	CA-C	-7.21	1.43	1.52
1	E	303	THR	CA-C	-7.20	1.43	1.52
1	A	274	VAL	N-CA	-7.20	1.37	1.46
1	G	180	THR	CA-C	-7.19	1.44	1.52
1	O	261	ILE	N-CA	-7.19	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	271	ASN	CA-C	-7.19	1.43	1.52
1	J	262	TYR	N-CA	-7.19	1.37	1.46
1	D	318	THR	N-CA	-7.18	1.37	1.46
1	H	205	ILE	CA-C	-7.18	1.44	1.52
1	Q	267	ILE	CA-C	-7.18	1.43	1.52
1	N	157	LYS	CA-C	-7.18	1.43	1.52
1	A	153	ASN	CA-C	-7.17	1.43	1.52
1	M	155	TRP	CA-C	-7.17	1.43	1.52
1	E	298	ASP	CA-C	-7.16	1.43	1.52
1	G	259	GLY	CA-C	-7.16	1.44	1.52
1	K	152	LEU	CA-C	-7.16	1.43	1.52
1	B	273	ILE	CA-C	-7.16	1.43	1.52
1	B	187	MET	CA-C	-7.16	1.43	1.52
1	G	294	ARG	CA-C	-7.16	1.43	1.52
1	P	263	LYS	CA-C	-7.16	1.43	1.52
1	H	272	LYS	CA-C	-7.15	1.43	1.52
1	K	304	LEU	N-CA	-7.15	1.37	1.46
1	K	314	LYS	N-CA	-7.15	1.37	1.46
1	K	318	THR	CA-C	-7.15	1.43	1.52
1	G	154	ALA	N-CA	-7.14	1.37	1.46
1	A	261	ILE	CA-C	-7.14	1.44	1.52
1	D	263	LYS	CA-C	-7.13	1.43	1.52
1	N	267	ILE	CA-C	-7.13	1.43	1.52
1	O	316	TRP	N-CA	-7.13	1.37	1.46
1	F	154	ALA	N-CA	-7.13	1.37	1.46
1	H	153	ASN	CA-C	-7.13	1.43	1.52
1	I	293	PHE	CA-C	-7.13	1.43	1.52
1	K	332	THR	CA-C	-7.13	1.43	1.52
1	Q	259	GLY	CA-C	-7.12	1.44	1.52
1	D	312	GLU	CA-C	-7.12	1.43	1.52
1	P	216	HIS	CA-C	-7.12	1.43	1.52
1	P	300	PHE	N-CA	-7.12	1.37	1.46
1	J	217	PRO	CA-C	-7.11	1.42	1.52
1	M	311	GLN	CA-C	-7.11	1.43	1.52
1	O	295	ASP	N-CA	-7.11	1.37	1.46
1	K	311	GLN	C-N	-7.11	1.24	1.33
1	O	317	MET	CA-C	-7.11	1.43	1.52
1	C	162	LYS	CA-C	-7.11	1.43	1.52
1	G	301	ALA	N-CA	-7.11	1.37	1.46
1	G	331	LYS	CA-C	-7.10	1.43	1.52
1	M	261	ILE	CA-C	-7.10	1.44	1.52
1	A	318	THR	CA-C	-7.10	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	169	ILE	CA-C	-7.10	1.45	1.52
1	A	270	LEU	C-N	-7.09	1.24	1.33
1	L	327	ASN	CA-C	-7.09	1.44	1.53
1	R	265	TRP	CA-C	-7.09	1.43	1.52
1	C	157	LYS	CA-C	-7.09	1.43	1.52
1	M	268	LEU	CA-C	-7.09	1.43	1.52
1	M	318	THR	CA-C	-7.09	1.43	1.52
1	Q	334	LEU	N-CA	-7.09	1.37	1.46
1	A	312	GLU	CA-C	-7.08	1.43	1.52
1	L	204	THR	CA-C	-7.08	1.43	1.52
1	D	300	PHE	N-CA	-7.08	1.38	1.46
1	R	213	ASP	CA-C	-7.07	1.43	1.52
1	B	203	GLU	CA-C	-7.07	1.43	1.52
1	O	316	TRP	CA-C	-7.07	1.43	1.52
1	F	194	HIS	CA-C	-7.06	1.45	1.53
1	G	159	VAL	N-CA	-7.06	1.38	1.46
1	H	185	ASN	CA-C	-7.05	1.43	1.52
1	M	319	GLU	CA-C	-7.05	1.42	1.52
1	N	213	ASP	N-CA	-7.05	1.37	1.46
1	N	262	TYR	N-CA	-7.05	1.37	1.46
1	M	303	THR	CA-C	-7.05	1.43	1.52
1	G	315	ASN	CA-C	-7.04	1.43	1.52
1	B	182	GLN	CA-C	-7.04	1.43	1.52
1	L	238	GLY	CA-C	-7.04	1.42	1.51
1	I	287	GLN	CA-C	-7.04	1.45	1.53
1	H	273	ILE	CA-C	-7.03	1.43	1.52
1	E	205	ILE	CA-C	-7.03	1.44	1.52
1	R	263	LYS	CA-C	-7.03	1.43	1.52
1	E	204	THR	CA-C	-7.03	1.43	1.52
1	D	241	SER	CA-C	-7.02	1.47	1.53
1	F	274	VAL	CA-C	-7.02	1.44	1.52
1	N	274	VAL	N-CA	-7.02	1.38	1.46
1	D	268	LEU	N-CA	-7.02	1.38	1.46
1	M	180	THR	CA-C	-7.01	1.43	1.52
1	P	302	LYS	CA-C	-7.01	1.43	1.52
1	F	328	PRO	CA-C	-7.01	1.42	1.52
1	P	311	GLN	CA-C	-7.01	1.43	1.52
1	Q	312	GLU	CA-C	-7.01	1.43	1.52
1	K	299	ARG	CA-C	-7.01	1.43	1.52
1	M	332	THR	CA-C	-7.01	1.43	1.52
1	B	296	TYR	CA-C	-7.00	1.44	1.52
1	E	270	LEU	C-N	-7.00	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	302	LYS	CA-C	-6.99	1.43	1.52
1	R	213	ASP	N-CA	-6.99	1.38	1.46
1	R	317	MET	CA-C	-6.99	1.43	1.52
1	K	301	ALA	CA-C	-6.99	1.43	1.52
1	Q	313	VAL	N-CA	-6.98	1.38	1.46
1	H	302	LYS	CA-C	-6.98	1.43	1.52
1	K	317	MET	CA-C	-6.98	1.43	1.52
1	F	199	GLN	N-CA	-6.98	1.38	1.46
1	K	304	LEU	CA-C	-6.97	1.43	1.52
1	O	304	LEU	CA-C	-6.97	1.43	1.52
1	R	267	ILE	CA-C	-6.97	1.44	1.52
1	Q	158	VAL	CA-C	-6.97	1.44	1.52
1	H	213	ASP	CA-C	-6.97	1.43	1.52
1	D	304	LEU	CA-C	-6.97	1.43	1.52
1	H	213	ASP	N-CA	-6.97	1.38	1.46
1	C	274	VAL	CA-C	-6.96	1.43	1.52
1	I	311	GLN	CA-C	-6.96	1.43	1.52
1	B	331	LYS	CA-C	-6.96	1.43	1.52
1	I	294	ARG	N-CA	-6.95	1.38	1.46
1	L	183	ASP	CA-C	-6.95	1.43	1.52
1	Q	209	ALA	CA-C	-6.95	1.44	1.52
1	R	205	ILE	CA-C	-6.95	1.44	1.52
1	G	155	TRP	CA-C	-6.95	1.44	1.52
1	D	301	ALA	N-CA	-6.95	1.38	1.46
1	I	321	LEU	CA-C	-6.95	1.43	1.52
1	Q	203	GLU	CA-C	-6.94	1.43	1.52
1	G	312	GLU	N-CA	-6.94	1.38	1.46
1	E	157	LYS	CA-C	-6.93	1.43	1.52
1	N	300	PHE	CA-C	-6.93	1.44	1.52
1	D	169	ILE	C-N	-6.93	1.25	1.34
1	I	213	ASP	CA-C	-6.93	1.43	1.52
1	D	303	THR	CA-C	-6.93	1.43	1.52
1	R	311	GLN	N-CA	-6.93	1.38	1.46
1	F	263	LYS	CA-C	-6.93	1.43	1.52
1	H	186	THR	CA-C	-6.92	1.43	1.52
1	M	185	ASN	CA-C	-6.91	1.43	1.52
1	A	275	ARG	N-CA	-6.91	1.37	1.46
1	J	303	THR	CA-C	-6.91	1.43	1.52
1	P	248	GLY	CA-C	-6.90	1.44	1.52
1	E	330	CYS	CA-C	-6.90	1.44	1.52
1	N	271	ASN	CA-C	-6.89	1.44	1.52
1	C	162	LYS	N-CA	-6.89	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	295	ASP	C-N	-6.89	1.25	1.33
1	L	297	VAL	N-CA	-6.89	1.38	1.46
1	C	320	THR	CA-C	-6.88	1.43	1.52
1	B	268	LEU	N-CA	-6.88	1.38	1.46
1	N	189	ASN	CA-C	-6.87	1.44	1.52
1	J	204	THR	CA-C	-6.87	1.43	1.52
1	B	320	THR	CA-C	-6.87	1.43	1.52
1	R	204	THR	CA-C	-6.87	1.43	1.52
1	A	342	THR	CA-C	-6.87	1.43	1.53
1	H	267	ILE	CA-C	-6.87	1.44	1.52
1	M	154	ALA	N-CA	-6.87	1.38	1.46
1	B	204	THR	CA-C	-6.86	1.43	1.52
1	I	203	GLU	CA-C	-6.86	1.43	1.52
1	N	209	ALA	N-CA	-6.86	1.38	1.46
1	Q	342	THR	CA-C	-6.86	1.43	1.52
1	E	311	GLN	N-CA	-6.86	1.38	1.46
1	K	303	THR	CA-C	-6.85	1.43	1.52
1	F	296	TYR	N-CA	-6.85	1.38	1.46
1	R	313	VAL	CA-C	-6.85	1.44	1.52
1	N	292	PRO	CA-C	-6.84	1.44	1.52
1	Q	304	LEU	CA-C	-6.83	1.43	1.52
1	C	185	ASN	CA-C	-6.83	1.43	1.52
1	P	199	GLN	N-CA	-6.83	1.38	1.46
1	N	262	TYR	CA-C	-6.83	1.43	1.52
1	G	262	TYR	N-CA	-6.83	1.38	1.46
1	G	161	GLU	CA-C	-6.83	1.44	1.52
1	N	180	THR	CA-C	-6.83	1.43	1.52
1	N	235	ASP	CA-C	-6.83	1.44	1.52
1	Q	246	GLN	CA-C	-6.83	1.43	1.52
1	I	316	TRP	N-CA	-6.82	1.38	1.46
1	H	204	THR	CA-C	-6.82	1.44	1.52
1	P	300	PHE	CA-C	-6.82	1.44	1.52
1	K	261	ILE	CA-C	-6.82	1.44	1.52
1	P	348	THR	CA-C	-6.81	1.43	1.52
1	A	268	LEU	N-CA	-6.81	1.38	1.46
1	K	293	PHE	N-CA	-6.80	1.38	1.46
1	O	313	VAL	N-CA	-6.80	1.38	1.46
1	I	272	LYS	CA-C	-6.80	1.44	1.52
1	N	287	GLN	CA-C	-6.80	1.44	1.53
1	N	293	PHE	N-CA	-6.80	1.38	1.46
1	H	216	HIS	CA-C	-6.79	1.44	1.52
1	Q	287	GLN	N-CA	-6.79	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	264	ARG	N-CA	-6.79	1.37	1.46
1	F	286	ARG	N-CA	-6.79	1.37	1.46
1	O	195	GLN	N-CA	-6.79	1.38	1.46
1	I	152	LEU	N-CA	-6.79	1.38	1.46
1	M	330	CYS	CA-C	-6.78	1.44	1.52
1	G	299	ARG	CA-C	-6.78	1.44	1.52
1	D	157	LYS	N-CA	-6.77	1.38	1.46
1	R	187	MET	N-CA	-6.77	1.38	1.46
1	G	317	MET	N-CA	-6.77	1.38	1.46
1	H	159	VAL	N-CA	-6.77	1.38	1.46
1	C	300	PHE	N-CA	-6.77	1.38	1.46
1	H	157	LYS	CA-C	-6.77	1.44	1.52
1	R	262	TYR	N-CA	-6.77	1.38	1.46
1	H	298	ASP	N-CA	-6.76	1.38	1.46
1	H	200	MET	CA-C	-6.76	1.44	1.52
1	M	157	LYS	CA-C	-6.76	1.44	1.52
1	I	156	VAL	N-CA	-6.75	1.38	1.46
1	R	253	ASN	N-CA	-6.75	1.39	1.46
1	K	182	GLN	CA-C	-6.75	1.43	1.52
1	I	195	GLN	N-CA	-6.75	1.38	1.46
1	B	344	GLU	N-CA	-6.74	1.38	1.46
1	Q	208	GLU	CA-C	-6.74	1.44	1.52
1	F	301	ALA	CA-C	-6.74	1.44	1.52
1	M	320	THR	CA-C	-6.74	1.43	1.52
1	M	211	GLU	CA-C	-6.74	1.44	1.52
1	O	344	GLU	CA-C	-6.74	1.44	1.52
1	D	296	TYR	CA-C	-6.73	1.44	1.52
1	Q	347	MET	CA-C	-6.73	1.44	1.52
1	N	239	THR	N-CA	-6.72	1.38	1.46
1	C	317	MET	CA-C	-6.72	1.44	1.52
1	F	300	PHE	N-CA	-6.72	1.38	1.46
1	M	312	GLU	CA-C	-6.72	1.44	1.52
1	F	300	PHE	CA-C	-6.72	1.44	1.52
1	H	151	THR	CA-C	-6.72	1.44	1.52
1	D	203	GLU	CA-C	-6.72	1.44	1.52
1	C	295	ASP	N-CA	-6.71	1.38	1.46
1	O	327	ASN	CA-C	-6.71	1.44	1.52
1	O	305	ARG	CA-C	-6.71	1.44	1.52
1	P	235	ASP	CA-C	-6.71	1.44	1.52
1	O	328	PRO	CA-C	-6.71	1.42	1.52
1	E	300	PHE	CA-C	-6.70	1.44	1.52
1	J	157	LYS	CA-C	-6.70	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	213	ASP	N-CA	-6.70	1.38	1.46
1	J	213	ASP	CA-C	-6.70	1.44	1.52
1	A	200	MET	CA-C	-6.70	1.44	1.52
1	I	239	THR	CA-C	-6.70	1.46	1.53
1	N	312	GLU	CA-C	-6.69	1.44	1.52
1	H	212	TRP	CA-C	-6.69	1.44	1.52
1	Q	314	LYS	C-N	-6.69	1.25	1.33
1	A	314	LYS	CA-C	-6.68	1.44	1.52
1	L	212	TRP	N-CA	-6.68	1.38	1.46
1	N	187	MET	N-CA	-6.68	1.38	1.46
1	O	199	GLN	N-CA	-6.68	1.38	1.46
1	P	313	VAL	CA-C	-6.68	1.44	1.52
1	A	262	TYR	CA-C	-6.68	1.44	1.52
1	H	295	ASP	CA-C	-6.68	1.44	1.52
1	R	261	ILE	CA-C	-6.68	1.44	1.52
1	K	302	LYS	CA-C	-6.68	1.44	1.52
1	F	245	GLU	CA-C	-6.68	1.43	1.52
1	I	313	VAL	N-CA	-6.68	1.38	1.46
1	J	200	MET	CA-C	-6.68	1.44	1.52
1	B	270	LEU	C-N	-6.67	1.25	1.33
1	J	199	GLN	N-CA	-6.67	1.38	1.46
1	M	311	GLN	N-CA	-6.67	1.38	1.46
1	M	301	ALA	N-CA	-6.67	1.38	1.46
1	B	312	GLU	CA-C	-6.67	1.44	1.52
1	O	159	VAL	CA-C	-6.67	1.44	1.52
1	J	274	VAL	CA-C	-6.65	1.44	1.52
1	J	317	MET	CA-C	-6.65	1.43	1.52
1	C	318	THR	N-CA	-6.65	1.38	1.46
1	J	213	ASP	N-CA	-6.65	1.38	1.46
1	C	261	ILE	CA-C	-6.64	1.44	1.52
1	J	312	GLU	N-CA	-6.64	1.38	1.46
1	G	332	THR	CA-C	-6.64	1.44	1.52
1	P	298	ASP	CA-C	-6.64	1.44	1.52
1	D	180	THR	CA-C	-6.64	1.44	1.52
1	O	334	LEU	N-CA	-6.63	1.38	1.46
1	D	205	ILE	CA-C	-6.63	1.44	1.52
1	I	267	ILE	CA-C	-6.62	1.44	1.52
1	P	274	VAL	CA-C	-6.62	1.44	1.52
1	Q	342	THR	C-N	-6.62	1.25	1.33
1	L	284	ASP	CA-C	-6.62	1.43	1.52
1	A	252	HIS	CA-C	-6.62	1.44	1.52
1	G	321	LEU	CA-C	-6.61	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	301	ALA	CA-C	-6.61	1.44	1.52
1	O	250	MET	N-CA	-6.61	1.38	1.46
1	N	254	PRO	C-N	-6.61	1.26	1.33
1	E	249	TRP	CA-C	-6.61	1.44	1.52
1	P	209	ALA	CA-C	-6.60	1.44	1.52
1	P	312	GLU	CA-C	-6.59	1.44	1.52
1	F	299	ARG	N-CA	-6.59	1.38	1.46
1	L	267	ILE	N-CA	-6.59	1.38	1.46
1	M	299	ARG	CA-C	-6.59	1.44	1.52
1	B	209	ALA	CA-C	-6.58	1.44	1.52
1	F	203	GLU	CA-C	-6.58	1.44	1.52
1	K	298	ASP	CA-C	-6.58	1.44	1.52
1	P	205	ILE	CA-C	-6.58	1.44	1.52
1	P	289	PRO	CA-C	-6.58	1.43	1.52
1	R	266	ILE	N-CA	-6.58	1.38	1.46
1	D	300	PHE	CA-C	-6.58	1.44	1.52
1	F	199	GLN	CA-C	-6.57	1.44	1.52
1	N	270	LEU	C-N	-6.57	1.25	1.33
1	A	180	THR	CA-C	-6.57	1.44	1.52
1	A	293	PHE	CA-C	-6.57	1.44	1.52
1	J	180	THR	C-N	-6.57	1.26	1.34
1	K	158	VAL	CA-C	-6.57	1.44	1.52
1	E	331	LYS	N-CA	-6.57	1.38	1.46
1	L	248	GLY	CA-C	-6.56	1.45	1.52
1	Q	301	ALA	N-CA	-6.56	1.38	1.46
1	H	181	PRO	CA-C	-6.56	1.43	1.52
1	M	172	PHE	CA-C	-6.56	1.44	1.52
1	A	199	GLN	N-CA	-6.55	1.38	1.46
1	D	272	LYS	N-CA	-6.55	1.38	1.46
1	R	271	ASN	CA-C	-6.55	1.44	1.52
1	I	259	GLY	CA-C	-6.55	1.44	1.52
1	E	297	VAL	N-CA	-6.55	1.38	1.46
1	E	327	ASN	CA-C	-6.54	1.45	1.53
1	N	153	ASN	CA-C	-6.54	1.44	1.52
1	R	309	ALA	CA-C	-6.54	1.45	1.53
1	R	296	TYR	N-CA	-6.54	1.38	1.46
1	B	300	PHE	N-CA	-6.53	1.38	1.46
1	C	296	TYR	CA-C	-6.53	1.44	1.52
1	K	151	THR	CA-C	-6.53	1.44	1.52
1	G	304	LEU	CA-C	-6.53	1.44	1.52
1	R	272	LYS	N-CA	-6.53	1.38	1.46
1	B	305	ARG	CA-C	-6.53	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	273	ILE	CA-C	-6.53	1.44	1.52
1	E	245	GLU	CA-C	-6.52	1.43	1.52
1	E	305	ARG	CA-C	-6.52	1.44	1.52
1	E	331	LYS	CA-C	-6.52	1.44	1.52
1	F	261	ILE	CA-C	-6.52	1.44	1.52
1	P	157	LYS	CA-C	-6.52	1.44	1.52
1	N	271	ASN	N-CA	-6.52	1.38	1.46
1	J	212	TRP	CA-C	-6.52	1.44	1.52
1	O	319	GLU	CA-C	-6.52	1.44	1.52
1	N	326	ALA	CA-C	-6.51	1.44	1.52
1	M	294	ARG	CA-C	-6.51	1.44	1.52
1	C	203	GLU	CA-C	-6.50	1.44	1.52
1	G	157	LYS	CA-C	-6.50	1.44	1.52
1	Q	303	THR	CA-C	-6.50	1.43	1.52
1	R	285	ILE	CA-C	-6.50	1.47	1.53
1	P	314	LYS	C-N	-6.49	1.25	1.33
1	E	312	GLU	N-CA	-6.48	1.38	1.46
1	N	157	LYS	N-CA	-6.48	1.38	1.46
1	Q	332	THR	CA-C	-6.48	1.44	1.52
1	H	262	TYR	N-CA	-6.48	1.38	1.46
1	D	320	THR	CA-C	-6.48	1.43	1.52
1	R	156	VAL	CA-C	-6.48	1.44	1.52
1	E	312	GLU	CA-C	-6.47	1.44	1.52
1	I	158	VAL	CA-C	-6.47	1.44	1.52
1	B	304	LEU	N-CA	-6.47	1.38	1.46
1	F	296	TYR	CA-C	-6.47	1.44	1.52
1	Q	328	PRO	CA-C	-6.47	1.42	1.52
1	I	326	ALA	CA-C	-6.46	1.44	1.53
1	E	153	ASN	CA-C	-6.46	1.44	1.52
1	I	304	LEU	N-CA	-6.46	1.38	1.46
1	O	197	ALA	N-CA	-6.46	1.38	1.46
1	Q	321	LEU	CA-C	-6.45	1.43	1.52
1	I	301	ALA	CA-C	-6.45	1.44	1.52
1	I	333	ILE	CA-C	-6.45	1.45	1.52
1	J	243	LEU	CA-C	-6.45	1.44	1.52
1	Q	248	GLY	CA-C	-6.45	1.45	1.52
1	A	321	LEU	CA-C	-6.45	1.44	1.52
1	M	273	ILE	CA-C	-6.44	1.44	1.52
1	Q	152	LEU	CA-C	-6.44	1.44	1.52
1	N	347	MET	N-CA	-6.43	1.38	1.46
1	B	255	PRO	CA-C	-6.42	1.45	1.53
1	Q	148	SER	C-N	-6.42	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	328	PRO	CA-C	-6.42	1.42	1.52
1	F	267	ILE	N-CA	-6.42	1.38	1.46
1	D	313	VAL	N-CA	-6.42	1.38	1.46
1	E	252	HIS	CA-C	-6.42	1.44	1.52
1	D	216	HIS	N-CA	-6.41	1.40	1.46
1	M	334	LEU	N-CA	-6.41	1.38	1.46
1	E	273	ILE	C-N	-6.41	1.25	1.33
1	A	296	TYR	N-CA	-6.41	1.38	1.46
1	F	186	THR	CA-C	-6.41	1.44	1.52
1	B	313	VAL	N-CA	-6.40	1.38	1.46
1	K	213	ASP	CA-C	-6.40	1.44	1.52
1	Q	297	VAL	N-CA	-6.40	1.38	1.46
1	K	342	THR	CA-C	-6.39	1.44	1.52
1	B	252	HIS	CA-C	-6.39	1.44	1.53
1	F	211	GLU	N-CA	-6.39	1.38	1.46
1	N	327	ASN	C-N	-6.39	1.25	1.34
1	M	297	VAL	CA-C	-6.39	1.43	1.52
1	R	270	LEU	C-N	-6.39	1.25	1.33
1	A	267	ILE	N-CA	-6.38	1.39	1.46
1	C	289	PRO	N-CA	-6.38	1.39	1.47
1	H	315	ASN	CA-C	-6.38	1.44	1.52
1	L	199	GLN	N-CA	-6.38	1.38	1.46
1	J	286	ARG	CA-C	-6.38	1.44	1.52
1	H	295	ASP	N-CA	-6.38	1.38	1.46
1	R	289	PRO	CA-C	-6.38	1.43	1.52
1	H	189	ASN	CA-C	-6.38	1.44	1.52
1	C	271	ASN	N-CA	-6.37	1.38	1.46
1	Q	295	ASP	N-CA	-6.37	1.38	1.46
1	M	312	GLU	N-CA	-6.37	1.38	1.46
1	B	301	ALA	N-CA	-6.37	1.38	1.46
1	J	263	LYS	CA-C	-6.37	1.44	1.52
1	N	268	LEU	N-CA	-6.37	1.38	1.46
1	G	152	LEU	CA-C	-6.37	1.44	1.52
1	F	273	ILE	N-CA	-6.37	1.39	1.46
1	G	311	GLN	N-CA	-6.37	1.38	1.46
1	Q	232	ARG	N-CA	-6.37	1.40	1.46
1	A	262	TYR	N-CA	-6.36	1.38	1.46
1	H	262	TYR	CA-C	-6.36	1.44	1.52
1	R	267	ILE	N-CA	-6.36	1.39	1.46
1	O	258	VAL	CA-C	-6.36	1.45	1.52
1	R	314	LYS	C-N	-6.36	1.25	1.33
1	N	252	HIS	CA-C	-6.36	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	264	ARG	CA-C	-6.35	1.44	1.52
1	I	312	GLU	CA-C	-6.35	1.44	1.52
1	R	241	SER	CA-C	-6.35	1.44	1.52
1	M	199	GLN	CA-C	-6.35	1.44	1.52
1	O	301	ALA	C-N	-6.34	1.25	1.33
1	P	181	PRO	C-O	-6.34	1.16	1.24
1	O	311	GLN	CA-C	-6.34	1.44	1.52
1	G	185	ASN	CA-C	-6.34	1.44	1.52
1	C	199	GLN	N-CA	-6.33	1.38	1.46
1	A	154	ALA	N-CA	-6.33	1.38	1.46
1	F	275	ARG	N-CA	-6.33	1.38	1.46
1	L	311	GLN	N-CA	-6.33	1.38	1.46
1	J	183	ASP	CA-C	-6.33	1.44	1.52
1	M	195	GLN	N-CA	-6.33	1.38	1.46
1	E	344	GLU	N-CA	-6.33	1.38	1.46
1	H	249	TRP	CA-C	-6.33	1.44	1.52
1	J	259	GLY	CA-C	-6.33	1.45	1.52
1	O	343	LEU	N-CA	-6.33	1.38	1.46
1	Q	302	LYS	CA-C	-6.33	1.44	1.52
1	L	249	TRP	N-CA	-6.32	1.38	1.46
1	H	155	TRP	CA-C	-6.32	1.44	1.52
1	M	228	MET	CA-C	-6.32	1.44	1.52
1	A	196	ALA	N-CA	-6.32	1.38	1.46
1	A	182	GLN	CA-C	-6.32	1.44	1.52
1	E	182	GLN	CA-C	-6.32	1.44	1.52
1	E	261	ILE	CA-C	-6.32	1.45	1.52
1	M	253	ASN	N-CA	-6.32	1.40	1.46
1	Q	313	VAL	CA-C	-6.31	1.45	1.52
1	C	211	GLU	N-CA	-6.31	1.38	1.46
1	H	208	GLU	CA-C	-6.31	1.44	1.52
1	P	172	PHE	CA-C	-6.31	1.44	1.52
1	E	264	ARG	CA-C	-6.30	1.44	1.52
1	Q	159	VAL	N-CA	-6.30	1.39	1.46
1	O	302	LYS	N-CA	-6.30	1.38	1.46
1	N	317	MET	CA-C	-6.29	1.44	1.52
1	Q	270	LEU	C-N	-6.29	1.25	1.33
1	G	328	PRO	CA-C	-6.29	1.42	1.52
1	D	331	LYS	N-CA	-6.29	1.38	1.46
1	I	295	ASP	N-CA	-6.29	1.38	1.46
1	J	326	ALA	CA-C	-6.29	1.44	1.52
1	D	271	ASN	CA-C	-6.29	1.44	1.52
1	C	293	PHE	CA-C	-6.29	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	276	MET	CA-C	-6.29	1.44	1.52
1	P	243	LEU	CA-C	-6.29	1.44	1.52
1	B	327	ASN	CA-C	-6.29	1.45	1.53
1	M	248	GLY	CA-C	-6.29	1.45	1.52
1	Q	299	ARG	CA-C	-6.29	1.44	1.52
1	N	211	GLU	CA-C	-6.28	1.44	1.52
1	H	194	HIS	CA-C	-6.28	1.44	1.53
1	I	298	ASP	CA-C	-6.28	1.44	1.52
1	A	324	GLN	N-CA	-6.27	1.37	1.45
1	A	301	ALA	N-CA	-6.27	1.39	1.46
1	Q	298	ASP	CA-C	-6.26	1.44	1.52
1	N	267	ILE	N-CA	-6.26	1.39	1.46
1	A	301	ALA	CA-C	-6.26	1.44	1.52
1	J	205	ILE	CA-C	-6.26	1.45	1.52
1	O	262	TYR	N-CA	-6.25	1.38	1.46
1	I	317	MET	CA-C	-6.25	1.44	1.52
1	K	297	VAL	N-CA	-6.25	1.38	1.46
1	M	315	ASN	CA-C	-6.25	1.44	1.52
1	G	199	GLN	CA-C	-6.25	1.45	1.52
1	D	199	GLN	N-CA	-6.25	1.39	1.46
1	P	267	ILE	N-CA	-6.25	1.39	1.46
1	J	327	ASN	CA-C	-6.24	1.46	1.53
1	N	180	THR	C-N	-6.24	1.26	1.34
1	P	181	PRO	CA-C	-6.24	1.42	1.52
1	P	264	ARG	CA-C	-6.24	1.44	1.52
1	R	265	TRP	C-N	-6.24	1.26	1.33
1	O	331	LYS	CA-C	-6.23	1.44	1.52
1	P	247	ILE	CA-C	-6.23	1.44	1.52
1	F	311	GLN	N-CA	-6.23	1.38	1.46
1	K	321	LEU	CA-C	-6.23	1.44	1.52
1	F	204	THR	CA-C	-6.22	1.44	1.52
1	H	246	GLN	CA-C	-6.22	1.45	1.52
1	K	195	GLN	N-CA	-6.22	1.38	1.46
1	O	312	GLU	CA-C	-6.22	1.44	1.52
1	O	347	MET	CA-C	-6.22	1.44	1.52
1	B	245	GLU	CA-C	-6.22	1.44	1.52
1	Q	296	TYR	C-N	-6.22	1.26	1.33
1	H	320	THR	CA-C	-6.21	1.44	1.52
1	A	311	GLN	N-CA	-6.21	1.38	1.46
1	J	321	LEU	CA-C	-6.21	1.43	1.52
1	R	243	LEU	CA-C	-6.21	1.44	1.52
1	L	292	PRO	N-CA	-6.21	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	300	PHE	N-CA	-6.21	1.38	1.46
1	C	276	MET	CA-C	-6.21	1.44	1.52
1	Q	272	LYS	N-CA	-6.21	1.38	1.46
1	J	161	GLU	CA-C	-6.20	1.45	1.52
1	C	342	THR	C-N	-6.20	1.25	1.33
1	D	321	LEU	CA-C	-6.20	1.44	1.52
1	O	304	LEU	N-CA	-6.20	1.38	1.46
1	E	268	LEU	N-CA	-6.20	1.39	1.46
1	K	316	TRP	CA-C	-6.20	1.44	1.52
1	D	171	MET	CA-C	-6.19	1.44	1.52
1	L	271	ASN	N-CA	-6.19	1.38	1.46
1	N	266	ILE	CA-C	-6.19	1.45	1.52
1	L	303	THR	CA-C	-6.19	1.44	1.52
1	A	172	PHE	CA-C	-6.18	1.44	1.52
1	N	311	GLN	C-N	-6.18	1.25	1.33
1	P	317	MET	CA-C	-6.18	1.44	1.52
1	D	211	GLU	N-CA	-6.18	1.38	1.46
1	A	243	LEU	CA-C	-6.18	1.45	1.52
1	H	152	LEU	CA-C	-6.18	1.45	1.52
1	K	348	THR	CA-C	-6.18	1.44	1.52
1	A	250	MET	CA-C	-6.18	1.44	1.52
1	J	314	LYS	N-CA	-6.18	1.38	1.46
1	O	186	THR	CA-C	-6.18	1.44	1.52
1	C	208	GLU	N-CA	-6.17	1.38	1.46
1	D	205	ILE	N-CA	-6.17	1.39	1.46
1	I	315	ASN	CA-C	-6.17	1.44	1.52
1	Q	199	GLN	N-CA	-6.17	1.39	1.46
1	A	198	MET	CA-C	-6.17	1.44	1.52
1	A	255	PRO	CA-C	-6.17	1.46	1.53
1	D	344	GLU	CA-C	-6.16	1.44	1.52
1	F	171	MET	CA-C	-6.16	1.44	1.52
1	K	343	LEU	CA-C	-6.16	1.44	1.52
1	C	275	ARG	N-CA	-6.16	1.38	1.46
1	M	148	SER	C-N	-6.16	1.26	1.34
1	N	314	LYS	C-N	-6.16	1.25	1.33
1	H	271	ASN	CA-C	-6.16	1.45	1.52
1	Q	266	ILE	N-CA	-6.16	1.39	1.46
1	E	238	GLY	CA-C	-6.15	1.43	1.51
1	H	199	GLN	N-CA	-6.15	1.39	1.46
1	B	329	ASP	N-CA	-6.15	1.38	1.46
1	L	189	ASN	CA-C	-6.15	1.45	1.52
1	B	344	GLU	CA-C	-6.14	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	321	LEU	N-CA	-6.14	1.38	1.45
1	A	274	VAL	CA-C	-6.14	1.45	1.52
1	E	347	MET	CA-C	-6.13	1.44	1.52
1	G	318	THR	C-N	-6.13	1.25	1.34
1	E	271	ASN	N-CA	-6.13	1.39	1.46
1	L	267	ILE	CA-C	-6.13	1.45	1.52
1	D	287	GLN	CA-C	-6.13	1.45	1.52
1	K	301	ALA	N-CA	-6.13	1.39	1.46
1	O	335	LYS	CA-C	-6.13	1.44	1.52
1	A	185	ASN	CA-C	-6.12	1.44	1.52
1	B	153	ASN	CA-C	-6.12	1.44	1.52
1	B	171	MET	N-CA	-6.12	1.39	1.46
1	H	157	LYS	N-CA	-6.12	1.38	1.46
1	H	303	THR	C-O	-6.12	1.16	1.24
1	K	318	THR	N-CA	-6.12	1.39	1.46
1	H	206	ASN	CA-C	-6.12	1.44	1.52
1	L	321	LEU	CA-C	-6.12	1.43	1.52
1	M	171	MET	N-CA	-6.12	1.39	1.46
1	P	332	THR	CA-C	-6.12	1.44	1.52
1	Q	263	LYS	CA-C	-6.12	1.44	1.52
1	A	321	LEU	N-CA	-6.11	1.38	1.45
1	E	301	ALA	CA-C	-6.11	1.45	1.52
1	R	244	GLN	CA-C	-6.11	1.44	1.52
1	B	214	ARG	N-CA	-6.11	1.38	1.46
1	B	297	VAL	N-CA	-6.11	1.39	1.46
1	C	202	LYS	CA-C	-6.11	1.44	1.52
1	K	154	ALA	N-CA	-6.10	1.39	1.46
1	I	286	ARG	C-N	-6.10	1.26	1.33
1	D	204	THR	CA-C	-6.10	1.44	1.52
1	B	276	MET	N-CA	-6.10	1.38	1.46
1	L	293	PHE	N-CA	-6.10	1.39	1.46
1	R	302	LYS	CA-C	-6.10	1.44	1.52
1	M	158	VAL	CA-C	-6.09	1.45	1.52
1	O	299	ARG	N-CA	-6.09	1.39	1.46
1	A	160	GLU	N-CA	-6.09	1.38	1.46
1	D	334	LEU	N-CA	-6.09	1.39	1.46
1	J	264	ARG	CA-C	-6.09	1.44	1.52
1	J	266	ILE	N-CA	-6.09	1.39	1.46
1	J	267	ILE	N-CA	-6.09	1.39	1.46
1	K	186	THR	CA-C	-6.09	1.44	1.52
1	E	302	LYS	CA-C	-6.09	1.44	1.52
1	E	304	LEU	N-CA	-6.09	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	296	TYR	CA-C	-6.09	1.45	1.52
1	C	297	VAL	C-N	-6.08	1.26	1.33
1	L	185	ASN	C-O	-6.08	1.17	1.24
1	I	261	ILE	CA-C	-6.08	1.45	1.52
1	B	205	ILE	CA-C	-6.08	1.45	1.52
1	K	153	ASN	CA-C	-6.08	1.44	1.52
1	B	200	MET	CA-C	-6.08	1.44	1.52
1	D	321	LEU	N-CA	-6.07	1.38	1.45
1	F	161	GLU	N-CA	-6.07	1.38	1.46
1	C	285	ILE	N-CA	-6.07	1.38	1.46
1	F	205	ILE	CA-C	-6.07	1.45	1.52
1	I	316	TRP	CA-C	-6.07	1.45	1.52
1	O	297	VAL	CA-C	-6.07	1.45	1.52
1	Q	211	GLU	CA-C	-6.07	1.44	1.52
1	O	300	PHE	N-CA	-6.07	1.39	1.46
1	B	302	LYS	CA-C	-6.06	1.44	1.52
1	G	186	THR	CA-C	-6.06	1.45	1.52
1	P	268	LEU	N-CA	-6.06	1.39	1.46
1	P	311	GLN	C-N	-6.06	1.26	1.33
1	R	271	ASN	N-CA	-6.06	1.39	1.46
1	M	181	PRO	N-CA	-6.06	1.39	1.47
1	L	235	ASP	N-CA	-6.05	1.39	1.46
1	N	181	PRO	N-CA	-6.05	1.39	1.47
1	Q	311	GLN	CA-C	-6.05	1.45	1.52
1	L	263	LYS	CA-C	-6.05	1.45	1.52
1	F	321	LEU	N-CA	-6.05	1.38	1.45
1	M	304	LEU	CA-C	-6.05	1.45	1.52
1	L	348	THR	CA-C	-6.05	1.45	1.52
1	A	346	MET	CA-C	-6.04	1.45	1.52
1	J	158	VAL	CA-C	-6.04	1.45	1.52
1	A	156	VAL	N-CA	-6.04	1.39	1.46
1	L	256	ILE	N-CA	-6.04	1.39	1.46
1	F	343	LEU	N-CA	-6.04	1.39	1.46
1	M	329	ASP	N-CA	-6.04	1.39	1.46
1	H	312	GLU	CA-C	-6.04	1.45	1.52
1	Q	151	THR	CA-C	-6.04	1.45	1.52
1	A	299	ARG	N-CA	-6.03	1.39	1.46
1	H	307	GLU	CA-C	-6.03	1.44	1.53
1	B	251	THR	CA-C	-6.03	1.44	1.52
1	E	214	ARG	N-CA	-6.03	1.39	1.46
1	M	304	LEU	N-CA	-6.03	1.39	1.46
1	A	162	LYS	N-CA	-6.03	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	296	TYR	N-CA	-6.03	1.39	1.46
1	F	320	THR	CA-C	-6.03	1.44	1.52
1	G	312	GLU	CA-C	-6.03	1.45	1.52
1	J	311	GLN	C-N	-6.03	1.26	1.33
1	N	199	GLN	N-CA	-6.03	1.39	1.46
1	H	268	LEU	N-CA	-6.02	1.39	1.46
1	L	313	VAL	CA-C	-6.02	1.45	1.52
1	C	180	THR	C-N	-6.02	1.26	1.34
1	N	158	VAL	CA-C	-6.01	1.45	1.52
1	B	161	GLU	CA-C	-6.01	1.45	1.52
1	R	268	LEU	N-CA	-6.01	1.39	1.46
1	E	246	GLN	CA-C	-6.01	1.45	1.52
1	B	181	PRO	CA-C	-6.00	1.43	1.52
1	G	313	VAL	N-CA	-6.00	1.39	1.46
1	G	300	PHE	C-N	-6.00	1.26	1.33
1	H	296	TYR	N-CA	-6.00	1.39	1.46
1	M	272	LYS	CA-C	-6.00	1.44	1.52
1	F	333	ILE	CA-C	-6.00	1.45	1.52
1	A	297	VAL	N-CA	-6.00	1.38	1.46
1	H	286	ARG	N-CA	-6.00	1.38	1.45
1	O	297	VAL	N-CA	-6.00	1.39	1.46
1	B	272	LYS	N-CA	-6.00	1.38	1.46
1	M	331	LYS	CA-C	-6.00	1.45	1.52
1	N	249	TRP	CA-C	-5.99	1.45	1.52
1	N	297	VAL	CA-C	-5.99	1.45	1.52
1	R	300	PHE	N-CA	-5.99	1.39	1.46
1	K	316	TRP	N-CA	-5.99	1.39	1.46
1	R	185	ASN	C-O	-5.99	1.17	1.24
1	A	157	LYS	N-CA	-5.99	1.39	1.46
1	C	249	TRP	CA-C	-5.99	1.45	1.52
1	E	300	PHE	C-O	-5.99	1.17	1.24
1	J	262	TYR	CA-C	-5.99	1.45	1.52
1	K	331	LYS	CA-C	-5.99	1.45	1.52
1	I	274	VAL	CA-C	-5.99	1.45	1.52
1	I	284	ASP	N-CA	-5.99	1.38	1.46
1	J	302	LYS	CA-C	-5.98	1.45	1.52
1	R	249	TRP	CA-C	-5.98	1.45	1.52
1	K	320	THR	CA-C	-5.98	1.44	1.52
1	B	315	ASN	CA-C	-5.97	1.45	1.52
1	F	249	TRP	N-CA	-5.97	1.39	1.46
1	O	243	LEU	CA-C	-5.97	1.45	1.52
1	K	205	ILE	CA-C	-5.97	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	296	TYR	N-CA	-5.97	1.39	1.46
1	L	213	ASP	CA-C	-5.97	1.45	1.52
1	O	320	THR	CA-C	-5.97	1.44	1.52
1	C	304	LEU	CA-C	-5.96	1.45	1.52
1	E	180	THR	C-N	-5.96	1.26	1.34
1	R	165	SER	CA-C	5.96	1.60	1.52
1	B	318	THR	N-CA	-5.96	1.39	1.46
1	B	321	LEU	N-CA	-5.96	1.38	1.46
1	M	293	PHE	CA-C	-5.96	1.45	1.52
1	F	202	LYS	CA-C	-5.96	1.44	1.52
1	Q	317	MET	CA-C	-5.96	1.45	1.52
1	B	333	ILE	CA-C	-5.96	1.45	1.52
1	D	252	HIS	CA-C	-5.96	1.45	1.52
1	A	299	ARG	C-N	-5.95	1.26	1.33
1	P	183	ASP	CA-C	-5.95	1.45	1.52
1	A	158	VAL	CA-C	-5.95	1.45	1.52
1	I	184	LEU	N-CA	-5.95	1.39	1.46
1	D	329	ASP	N-CA	-5.94	1.39	1.46
1	Q	173	SER	CA-C	-5.94	1.44	1.52
1	B	312	GLU	N-CA	-5.94	1.39	1.46
1	C	246	GLN	CA-C	-5.94	1.45	1.52
1	C	313	VAL	N-CA	-5.94	1.39	1.46
1	E	328	PRO	CA-C	-5.94	1.43	1.52
1	I	318	THR	N-CA	-5.94	1.39	1.46
1	G	183	ASP	CA-C	-5.94	1.45	1.52
1	B	307	GLU	N-CA	-5.93	1.38	1.45
1	D	344	GLU	N-CA	-5.93	1.39	1.46
1	R	250	MET	CA-C	-5.93	1.45	1.52
1	D	161	GLU	CA-C	-5.93	1.45	1.52
1	D	261	ILE	CA-C	-5.93	1.45	1.52
1	K	312	GLU	N-CA	-5.93	1.39	1.46
1	P	158	VAL	CA-C	-5.93	1.45	1.52
1	J	261	ILE	CA-C	-5.93	1.45	1.52
1	M	272	LYS	N-CA	-5.93	1.38	1.46
1	C	287	GLN	N-CA	-5.92	1.39	1.46
1	M	313	VAL	N-CA	-5.92	1.39	1.46
1	F	313	VAL	N-CA	-5.92	1.39	1.46
1	L	205	ILE	CA-C	-5.92	1.45	1.52
1	E	249	TRP	N-CA	-5.92	1.39	1.46
1	G	212	TRP	N-CA	-5.92	1.39	1.46
1	E	251	THR	CA-C	-5.91	1.44	1.52
1	G	195	GLN	CA-C	-5.91	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	246	GLN	N-CA	-5.91	1.39	1.46
1	E	276	MET	CA-C	-5.91	1.44	1.52
1	M	316	TRP	CA-C	-5.91	1.45	1.52
1	F	252	HIS	CA-C	-5.91	1.45	1.52
1	R	189	ASN	CA-C	-5.90	1.45	1.52
1	B	161	GLU	N-CA	-5.90	1.39	1.46
1	B	243	LEU	CA-C	-5.90	1.45	1.52
1	B	216	HIS	N-CA	-5.90	1.39	1.46
1	O	301	ALA	N-CA	-5.90	1.39	1.46
1	L	250	MET	N-CA	-5.90	1.39	1.46
1	D	182	GLN	CA-C	-5.89	1.44	1.52
1	K	330	CYS	CA-C	-5.89	1.45	1.52
1	G	250	MET	N-CA	-5.89	1.39	1.46
1	G	321	LEU	N-CA	-5.89	1.38	1.46
1	K	263	LYS	CA-C	-5.89	1.45	1.52
1	L	274	VAL	N-CA	-5.89	1.39	1.46
1	Q	312	GLU	N-CA	-5.89	1.39	1.46
1	R	246	GLN	CA-C	-5.89	1.44	1.52
1	N	209	ALA	C-O	-5.88	1.17	1.24
1	Q	316	TRP	C-N	-5.88	1.26	1.33
1	K	276	MET	N-CA	-5.88	1.38	1.46
1	A	344	GLU	N-CA	-5.88	1.39	1.46
1	C	263	LYS	CA-C	-5.88	1.45	1.52
1	F	297	VAL	CA-C	-5.88	1.44	1.52
1	G	181	PRO	N-CA	-5.88	1.40	1.47
1	J	313	VAL	CA-C	-5.88	1.45	1.52
1	I	332	THR	CA-C	-5.87	1.45	1.52
1	Q	327	ASN	CA-C	-5.87	1.45	1.52
1	C	205	ILE	CA-C	-5.87	1.45	1.52
1	F	275	ARG	CA-C	-5.87	1.44	1.52
1	O	315	ASN	CA-C	-5.87	1.45	1.52
1	R	181	PRO	CA-C	-5.87	1.43	1.52
1	G	246	GLN	CA-C	-5.87	1.45	1.52
1	N	292	PRO	N-CA	-5.87	1.40	1.47
1	P	318	THR	CA-C	-5.86	1.45	1.52
1	K	315	ASN	CA-C	-5.86	1.45	1.52
1	Q	315	ASN	N-CA	-5.86	1.39	1.46
1	B	317	MET	CA-C	-5.86	1.45	1.52
1	N	290	LYS	N-CA	-5.86	1.41	1.46
1	G	267	ILE	CA-C	-5.86	1.45	1.52
1	C	210	ALA	CA-C	-5.85	1.45	1.52
1	B	331	LYS	N-CA	-5.85	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	171	MET	N-CA	-5.85	1.39	1.46
1	R	181	PRO	N-CA	-5.85	1.40	1.47
1	J	348	THR	CA-C	-5.85	1.45	1.52
1	H	307	GLU	N-CA	-5.85	1.38	1.45
1	J	157	LYS	N-CA	-5.85	1.39	1.46
1	D	272	LYS	C-O	-5.85	1.16	1.24
1	R	326	ALA	N-CA	-5.85	1.38	1.45
1	D	172	PHE	CA-C	-5.84	1.45	1.52
1	J	308	GLN	N-CA	5.84	1.53	1.46
1	K	334	LEU	N-CA	-5.84	1.39	1.46
1	L	299	ARG	N-CA	-5.84	1.39	1.46
1	O	318	THR	N-CA	-5.84	1.39	1.46
1	J	271	ASN	N-CA	-5.84	1.39	1.46
1	J	284	ASP	CA-C	-5.84	1.44	1.52
1	Q	212	TRP	N-CA	-5.84	1.39	1.46
1	R	241	SER	N-CA	-5.83	1.39	1.46
1	A	206	ASN	CA-C	-5.83	1.45	1.52
1	I	263	LYS	N-CA	-5.83	1.39	1.46
1	R	315	ASN	N-CA	-5.83	1.39	1.46
1	M	268	LEU	N-CA	-5.83	1.39	1.46
1	R	266	ILE	CA-C	-5.83	1.45	1.52
1	C	268	LEU	N-CA	-5.82	1.39	1.46
1	C	344	GLU	CA-C	-5.82	1.45	1.52
1	G	250	MET	CA-C	-5.82	1.45	1.52
1	E	250	MET	CA-C	-5.82	1.45	1.52
1	G	204	THR	CA-C	-5.82	1.45	1.52
1	G	213	ASP	CA-C	-5.82	1.45	1.52
1	R	152	LEU	N-CA	-5.82	1.39	1.46
1	C	262	TYR	N-CA	-5.82	1.39	1.46
1	K	153	ASN	N-CA	-5.81	1.39	1.46
1	D	293	PHE	N-CA	-5.81	1.39	1.46
1	L	161	GLU	N-CA	-5.81	1.39	1.46
1	O	204	THR	CA-C	-5.81	1.45	1.52
1	A	211	GLU	N-CA	-5.81	1.39	1.46
1	G	254	PRO	C-N	-5.81	1.26	1.33
1	P	156	VAL	CA-C	-5.81	1.45	1.52
1	Q	326	ALA	CA-C	-5.81	1.45	1.52
1	R	264	ARG	CA-C	-5.81	1.44	1.52
1	H	304	LEU	CA-C	-5.81	1.45	1.52
1	A	196	ALA	CA-C	-5.80	1.45	1.52
1	P	157	LYS	N-CA	-5.80	1.39	1.46
1	A	181	PRO	CA-C	-5.80	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	299	ARG	N-CA	-5.80	1.39	1.46
1	G	301	ALA	CA-C	-5.80	1.45	1.52
1	O	301	ALA	CA-C	-5.80	1.45	1.52
1	F	317	MET	CA-C	-5.79	1.45	1.52
1	N	298	ASP	N-CA	-5.79	1.39	1.46
1	O	274	VAL	N-CA	-5.79	1.39	1.46
1	B	348	THR	CA-C	-5.79	1.45	1.52
1	F	243	LEU	CA-C	-5.79	1.45	1.52
1	M	265	TRP	C-N	-5.78	1.26	1.33
1	M	294	ARG	C-N	-5.78	1.26	1.33
1	J	297	VAL	N-CA	-5.78	1.39	1.46
1	N	301	ALA	N-CA	-5.78	1.39	1.46
1	J	273	ILE	CA-C	-5.78	1.45	1.52
1	M	271	ASN	CA-C	-5.78	1.45	1.52
1	A	245	GLU	CA-C	-5.77	1.45	1.52
1	L	208	GLU	CA-C	-5.77	1.45	1.52
1	B	321	LEU	CA-C	-5.77	1.44	1.52
1	H	267	ILE	N-CA	-5.77	1.39	1.46
1	C	311	GLN	CA-C	-5.77	1.45	1.52
1	I	320	THR	CA-C	-5.77	1.44	1.52
1	J	210	ALA	CA-C	-5.77	1.45	1.52
1	K	274	VAL	CA-C	-5.77	1.45	1.52
1	R	264	ARG	N-CA	-5.77	1.39	1.46
1	P	318	THR	N-CA	-5.77	1.39	1.46
1	C	176	SER	CA-C	-5.77	1.45	1.52
1	C	273	ILE	N-CA	-5.76	1.39	1.46
1	N	321	LEU	CA-C	-5.76	1.44	1.52
1	P	299	ARG	CA-C	-5.76	1.45	1.52
1	L	296	TYR	N-CA	-5.76	1.39	1.46
1	Q	299	ARG	N-CA	-5.76	1.39	1.46
1	K	148	SER	C-N	-5.76	1.27	1.34
1	R	181	PRO	C-O	-5.76	1.17	1.24
1	H	211	GLU	N-CA	-5.75	1.39	1.46
1	D	305	ARG	CA-C	-5.75	1.45	1.52
1	F	312	GLU	N-CA	-5.75	1.39	1.46
1	J	296	TYR	C-N	-5.75	1.27	1.34
1	H	255	PRO	CA-C	-5.75	1.46	1.53
1	I	335	LYS	CA-C	-5.75	1.45	1.52
1	A	162	LYS	CA-C	-5.75	1.45	1.52
1	C	305	ARG	CA-C	-5.75	1.45	1.52
1	E	327	ASN	C-N	-5.75	1.26	1.34
1	M	301	ALA	CA-C	-5.75	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	181	PRO	C-O	-5.75	1.17	1.24
1	G	169	ILE	N-CA	-5.74	1.39	1.46
1	G	216	HIS	CA-C	-5.74	1.45	1.52
1	P	271	ASN	CA-C	-5.74	1.45	1.52
1	C	245	GLU	CA-C	-5.74	1.44	1.52
1	N	297	VAL	N-CA	-5.74	1.39	1.46
1	E	180	THR	CA-C	-5.74	1.45	1.52
1	G	271	ASN	CA-C	-5.74	1.45	1.52
1	G	273	ILE	N-CA	-5.74	1.39	1.46
1	M	320	THR	N-CA	-5.74	1.38	1.46
1	O	329	ASP	N-CA	-5.73	1.39	1.46
1	D	234	SER	CA-C	-5.73	1.45	1.52
1	K	212	TRP	CA-C	-5.73	1.45	1.52
1	R	330	CYS	CA-C	-5.73	1.45	1.52
1	L	276	MET	CA-C	-5.73	1.45	1.52
1	O	187	MET	CA-C	-5.73	1.45	1.52
1	Q	157	LYS	N-CA	-5.73	1.39	1.46
1	E	298	ASP	N-CA	-5.73	1.39	1.46
1	J	216	HIS	CA-C	-5.72	1.45	1.52
1	L	259	GLY	CA-C	-5.72	1.45	1.52
1	M	250	MET	CA-C	-5.72	1.45	1.52
1	G	333	ILE	CA-C	-5.72	1.45	1.52
1	L	265	TRP	C-N	-5.72	1.26	1.33
1	B	271	ASN	CA-C	-5.72	1.45	1.52
1	H	156	VAL	N-CA	-5.72	1.39	1.46
1	R	211	GLU	N-CA	-5.72	1.39	1.46
1	Q	304	LEU	N-CA	-5.72	1.39	1.46
1	O	300	PHE	C-O	-5.72	1.17	1.24
1	Q	242	THR	CA-C	-5.72	1.45	1.52
1	C	310	SER	CA-C	-5.71	1.45	1.52
1	F	157	LYS	N-CA	-5.71	1.39	1.46
1	M	276	MET	N-CA	-5.71	1.38	1.46
1	Q	300	PHE	C-N	-5.71	1.26	1.33
1	A	247	ILE	CA-C	-5.71	1.45	1.52
1	H	210	ALA	CA-C	-5.70	1.45	1.52
1	I	212	TRP	N-CA	-5.70	1.39	1.46
1	J	285	ILE	CA-C	-5.70	1.48	1.53
1	L	212	TRP	CA-C	-5.70	1.45	1.52
1	H	218	VAL	N-CA	-5.70	1.39	1.46
1	P	347	MET	C-O	-5.70	1.17	1.24
1	Q	202	LYS	CA-C	-5.70	1.45	1.52
1	A	273	ILE	N-CA	-5.70	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	266	ILE	CA-C	-5.70	1.45	1.52
1	L	301	ALA	N-CA	-5.70	1.39	1.46
1	N	295	ASP	N-CA	-5.70	1.39	1.46
1	Q	243	LEU	CA-C	-5.69	1.45	1.52
1	I	263	LYS	CA-C	-5.69	1.45	1.52
1	J	266	ILE	CA-C	-5.69	1.45	1.52
1	E	244	GLN	N-CA	-5.69	1.39	1.46
1	N	296	TYR	N-CA	-5.69	1.39	1.46
1	M	213	ASP	N-CA	-5.69	1.39	1.46
1	B	266	ILE	N-CA	-5.68	1.40	1.46
1	A	333	ILE	CA-C	-5.68	1.45	1.52
1	O	216	HIS	CA-C	-5.68	1.47	1.53
1	H	209	ALA	CA-C	-5.68	1.45	1.52
1	O	153	ASN	CA-C	-5.68	1.45	1.52
1	B	210	ALA	CA-C	-5.68	1.45	1.52
1	F	195	GLN	N-CA	-5.68	1.39	1.46
1	C	195	GLN	N-CA	-5.68	1.39	1.46
1	O	234	SER	CA-C	-5.68	1.45	1.52
1	E	297	VAL	C-N	-5.67	1.26	1.33
1	G	175	LEU	N-CA	-5.67	1.38	1.46
1	K	184	LEU	N-CA	-5.67	1.39	1.46
1	P	330	CYS	CA-C	-5.67	1.45	1.52
1	B	291	GLU	N-CA	-5.67	1.41	1.45
1	M	321	LEU	N-CA	-5.67	1.38	1.46
1	A	329	ASP	N-CA	-5.66	1.39	1.46
1	I	265	TRP	CA-C	-5.66	1.45	1.52
1	R	275	ARG	N-CA	-5.66	1.38	1.46
1	R	312	GLU	N-CA	-5.66	1.39	1.46
1	L	308	GLN	N-CA	5.66	1.52	1.46
1	A	296	TYR	C-N	-5.66	1.27	1.33
1	F	200	MET	N-CA	-5.66	1.39	1.46
1	I	268	LEU	N-CA	-5.66	1.39	1.46
1	C	333	ILE	CA-C	-5.66	1.45	1.52
1	E	322	LEU	CA-C	-5.66	1.45	1.52
1	F	187	MET	CA-C	-5.66	1.45	1.52
1	G	287	GLN	CA-C	-5.66	1.45	1.53
1	L	213	ASP	N-CA	-5.66	1.39	1.46
1	A	346	MET	N-CA	-5.65	1.39	1.46
1	F	268	LEU	N-CA	-5.65	1.39	1.46
1	D	246	GLN	N-CA	-5.65	1.39	1.46
1	N	148	SER	C-N	-5.65	1.26	1.34
1	Q	249	TRP	N-CA	-5.65	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	275	ARG	CA-C	-5.64	1.44	1.52
1	C	215	LEU	CA-C	-5.64	1.44	1.52
1	C	267	ILE	N-CA	-5.64	1.39	1.46
1	E	311	GLN	CA-C	-5.64	1.45	1.52
1	D	201	LEU	CA-C	-5.64	1.45	1.52
1	H	181	PRO	C-O	-5.64	1.16	1.24
1	I	330	CYS	CA-C	-5.63	1.45	1.52
1	R	303	THR	CA-C	-5.63	1.45	1.52
1	A	200	MET	N-CA	-5.63	1.39	1.46
1	A	287	GLN	CA-C	-5.63	1.45	1.52
1	F	251	THR	CA-C	-5.63	1.44	1.52
1	I	213	ASP	N-CA	-5.63	1.39	1.46
1	L	315	ASN	N-CA	-5.63	1.39	1.46
1	C	253	ASN	N-CA	-5.62	1.40	1.46
1	F	331	LYS	CA-C	-5.62	1.45	1.52
1	H	180	THR	CA-C	-5.62	1.45	1.52
1	D	299	ARG	N-CA	-5.62	1.39	1.46
1	J	299	ARG	N-CA	-5.62	1.39	1.46
1	M	316	TRP	C-N	-5.62	1.26	1.33
1	G	297	VAL	CA-C	-5.62	1.45	1.52
1	H	315	ASN	N-CA	-5.62	1.39	1.46
1	R	158	VAL	CA-C	-5.62	1.45	1.52
1	M	186	THR	CA-C	-5.62	1.45	1.52
1	N	313	VAL	CA-C	-5.62	1.45	1.52
1	H	311	GLN	N-CA	-5.61	1.39	1.46
1	J	247	ILE	CA-C	-5.61	1.45	1.52
1	L	262	TYR	CA-C	-5.61	1.45	1.52
1	N	206	ASN	CA-C	-5.61	1.45	1.52
1	N	298	ASP	CA-C	-5.61	1.45	1.52
1	K	187	MET	N-CA	-5.61	1.39	1.46
1	K	300	PHE	C-N	-5.61	1.26	1.33
1	I	311	GLN	N-CA	-5.61	1.39	1.46
1	K	296	TYR	C-N	-5.60	1.27	1.33
1	N	312	GLU	N-CA	-5.60	1.39	1.46
1	F	266	ILE	CA-C	-5.60	1.46	1.52
1	M	261	ILE	N-CA	-5.60	1.40	1.46
1	P	250	MET	CA-C	-5.60	1.45	1.52
1	R	274	VAL	N-CA	-5.60	1.39	1.46
1	R	333	ILE	CA-C	-5.60	1.45	1.52
1	I	296	TYR	CA-C	-5.60	1.45	1.52
1	Q	153	ASN	N-CA	-5.60	1.39	1.46
1	F	335	LYS	CA-C	-5.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	208	GLU	CA-C	-5.59	1.45	1.52
1	H	298	ASP	C-O	-5.59	1.17	1.24
1	K	156	VAL	CA-C	-5.59	1.45	1.52
1	N	292	PRO	C-N	-5.59	1.26	1.33
1	R	297	VAL	N-CA	-5.59	1.39	1.46
1	D	348	THR	CA-C	-5.59	1.45	1.52
1	B	243	LEU	N-CA	-5.59	1.39	1.46
1	E	148	SER	C-N	-5.59	1.27	1.34
1	G	160	GLU	N-CA	-5.58	1.38	1.46
1	B	336	ALA	N-CA	-5.58	1.38	1.46
1	H	311	GLN	C-N	-5.58	1.26	1.33
1	P	249	TRP	N-CA	-5.58	1.39	1.46
1	D	311	GLN	CA-C	-5.58	1.45	1.52
1	H	347	MET	CA-C	-5.58	1.45	1.52
1	N	153	ASN	N-CA	-5.58	1.39	1.46
1	I	299	ARG	CA-C	-5.58	1.45	1.52
1	P	315	ASN	N-CA	-5.58	1.39	1.46
1	H	250	MET	CA-C	-5.58	1.45	1.52
1	Q	343	LEU	CA-C	-5.58	1.45	1.52
1	F	336	ALA	N-CA	-5.58	1.38	1.46
1	K	159	VAL	N-CA	-5.58	1.39	1.46
1	I	343	LEU	N-CA	-5.57	1.39	1.46
1	E	253	ASN	N-CA	-5.57	1.40	1.46
1	I	209	ALA	N-CA	-5.57	1.39	1.46
1	O	316	TRP	C-N	-5.57	1.26	1.33
1	C	270	LEU	C-N	-5.57	1.26	1.33
1	F	304	LEU	CA-C	-5.57	1.45	1.52
1	F	318	THR	N-CA	-5.57	1.39	1.46
1	F	326	ALA	CA-C	-5.57	1.46	1.52
1	G	252	HIS	CA-C	-5.57	1.46	1.52
1	O	273	ILE	N-CA	-5.57	1.39	1.46
1	O	276	MET	CA-C	-5.57	1.45	1.52
1	I	292	PRO	CA-C	-5.56	1.46	1.53
1	P	315	ASN	CA-C	-5.56	1.45	1.52
1	M	300	PHE	C-N	-5.56	1.26	1.33
1	B	272	LYS	C-O	-5.56	1.17	1.24
1	D	206	ASN	CA-C	-5.56	1.45	1.52
1	I	316	TRP	C-N	-5.56	1.26	1.33
1	J	304	LEU	N-CA	-5.56	1.39	1.46
1	F	172	PHE	CA-C	-5.55	1.45	1.52
1	G	268	LEU	CA-C	-5.55	1.45	1.52
1	G	295	ASP	N-CA	-5.55	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	304	LEU	N-CA	-5.55	1.39	1.46
1	P	272	LYS	N-CA	-5.55	1.39	1.46
1	O	311	GLN	N-CA	-5.55	1.39	1.46
1	B	201	LEU	N-CA	-5.55	1.39	1.46
1	C	148	SER	N-CA	-5.54	1.40	1.46
1	P	287	GLN	CA-C	-5.54	1.45	1.52
1	D	330	CYS	CA-C	-5.54	1.45	1.52
1	E	161	GLU	N-CA	-5.54	1.39	1.46
1	J	214	ARG	N-CA	-5.54	1.39	1.46
1	A	345	GLU	N-CA	-5.54	1.39	1.46
1	E	329	ASP	N-CA	-5.54	1.39	1.46
1	J	307	GLU	C-N	5.54	1.41	1.33
1	Q	154	ALA	N-CA	-5.54	1.39	1.46
1	M	151	THR	CA-C	-5.54	1.45	1.52
1	B	295	ASP	N-CA	-5.54	1.39	1.46
1	F	264	ARG	CA-C	-5.54	1.45	1.52
1	G	158	VAL	CA-C	-5.54	1.45	1.52
1	H	181	PRO	N-CA	-5.54	1.40	1.47
1	I	157	LYS	N-CA	-5.53	1.39	1.46
1	R	284	ASP	CA-C	-5.53	1.45	1.52
1	B	183	ASP	N-CA	-5.53	1.39	1.46
1	D	332	THR	CA-C	-5.53	1.45	1.52
1	I	312	GLU	N-CA	-5.53	1.39	1.46
1	E	210	ALA	CA-C	-5.53	1.45	1.52
1	I	274	VAL	N-CA	-5.53	1.39	1.46
1	R	210	ALA	CA-C	-5.53	1.45	1.52
1	A	304	LEU	CA-C	-5.53	1.45	1.52
1	D	153	ASN	C-O	-5.53	1.17	1.24
1	G	148	SER	C-N	-5.53	1.27	1.34
1	H	187	MET	N-CA	-5.53	1.39	1.46
1	N	308	GLN	CA-C	5.53	1.59	1.52
1	G	311	GLN	CA-C	-5.52	1.45	1.52
1	O	235	ASP	N-CA	-5.52	1.39	1.46
1	F	294	ARG	CA-C	-5.52	1.45	1.52
1	C	312	GLU	CA-C	-5.52	1.45	1.52
1	F	156	VAL	N-CA	-5.52	1.40	1.46
1	R	259	GLY	CA-C	-5.52	1.46	1.52
1	E	250	MET	N-CA	-5.52	1.39	1.46
1	F	253	ASN	N-CA	-5.52	1.41	1.46
1	P	342	THR	CA-C	-5.52	1.45	1.53
1	E	336	ALA	N-CA	-5.51	1.38	1.46
1	K	152	LEU	N-CA	-5.51	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	285	ILE	CA-C	-5.51	1.48	1.53
1	F	262	TYR	N-CA	-5.51	1.39	1.46
1	O	287	GLN	N-CA	-5.51	1.39	1.46
1	E	256	ILE	N-CA	-5.51	1.39	1.46
1	K	250	MET	CA-C	-5.51	1.45	1.52
1	R	208	GLU	CA-C	-5.51	1.45	1.52
1	F	180	THR	CA-C	-5.50	1.45	1.53
1	G	214	ARG	N-CA	-5.50	1.39	1.46
1	D	294	ARG	CA-C	-5.50	1.45	1.52
1	H	183	ASP	CA-C	-5.50	1.45	1.52
1	J	211	GLU	N-CA	-5.50	1.39	1.46
1	R	287	GLN	CA-C	-5.50	1.46	1.52
1	C	214	ARG	N-CA	-5.50	1.39	1.46
1	I	209	ALA	CA-C	-5.50	1.46	1.52
1	R	301	ALA	N-CA	-5.50	1.39	1.46
1	E	292	PRO	CA-C	-5.50	1.46	1.52
1	L	156	VAL	N-CA	-5.50	1.40	1.46
1	N	203	GLU	N-CA	-5.50	1.39	1.46
1	R	196	ALA	CA-C	-5.50	1.45	1.52
1	P	301	ALA	N-CA	-5.50	1.39	1.46
1	C	327	ASN	C-N	-5.49	1.26	1.34
1	F	183	ASP	CA-C	-5.49	1.45	1.52
1	E	295	ASP	C-N	-5.49	1.26	1.33
1	G	304	LEU	N-CA	-5.49	1.39	1.46
1	I	153	ASN	CA-C	-5.49	1.45	1.52
1	E	321	LEU	N-CA	-5.49	1.38	1.45
1	N	208	GLU	CA-C	-5.49	1.45	1.52
1	O	295	ASP	C-N	-5.49	1.26	1.33
1	G	172	PHE	N-CA	-5.48	1.39	1.46
1	H	301	ALA	N-CA	-5.48	1.39	1.46
1	R	308	GLN	N-CA	5.48	1.52	1.46
1	C	272	LYS	N-CA	-5.48	1.39	1.46
1	D	342	THR	C-N	-5.48	1.26	1.33
1	O	257	PRO	CA-C	-5.48	1.47	1.53
1	C	239	THR	CA-C	-5.48	1.45	1.52
1	E	342	THR	C-N	-5.48	1.26	1.33
1	G	153	ASN	N-CA	-5.48	1.39	1.46
1	G	266	ILE	CA-C	-5.48	1.45	1.52
1	H	303	THR	N-CA	-5.48	1.39	1.46
1	I	319	GLU	CA-C	-5.48	1.45	1.52
1	B	187	MET	N-CA	-5.48	1.39	1.46
1	K	266	ILE	CA-C	-5.48	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	153	ASN	N-CA	-5.48	1.39	1.46
1	C	270	LEU	CA-C	-5.47	1.45	1.52
1	J	301	ALA	N-CA	-5.47	1.39	1.46
1	F	344	GLU	N-CA	-5.47	1.39	1.46
1	N	308	GLN	N-CA	5.47	1.53	1.46
1	P	238	GLY	CA-C	-5.47	1.44	1.51
1	P	312	GLU	N-CA	-5.47	1.39	1.46
1	R	286	ARG	N-CA	-5.47	1.38	1.45
1	F	256	ILE	N-CA	-5.46	1.39	1.46
1	C	311	GLN	N-CA	-5.46	1.39	1.46
1	Q	171	MET	CA-C	-5.46	1.45	1.52
1	P	153	ASN	CA-C	-5.46	1.45	1.52
1	D	255	PRO	CA-C	-5.46	1.46	1.52
1	I	303	THR	CA-C	-5.46	1.45	1.52
1	A	183	ASP	CA-C	-5.46	1.45	1.52
1	F	293	PHE	CA-C	-5.46	1.45	1.52
1	O	271	ASN	CA-C	-5.46	1.45	1.52
1	R	180	THR	C-N	-5.46	1.27	1.34
1	I	188	LEU	N-CA	-5.46	1.39	1.46
1	F	169	ILE	CA-C	-5.45	1.47	1.52
1	D	311	GLN	N-CA	-5.45	1.39	1.46
1	D	333	ILE	CA-C	-5.45	1.46	1.52
1	N	273	ILE	CA-C	-5.45	1.45	1.52
1	K	199	GLN	CA-C	-5.45	1.46	1.52
1	M	274	VAL	N-CA	-5.45	1.40	1.46
1	F	157	LYS	C-O	-5.44	1.17	1.24
1	B	154	ALA	N-CA	-5.44	1.40	1.46
1	F	198	MET	CA-C	-5.44	1.45	1.52
1	F	259	GLY	CA-C	-5.44	1.46	1.52
1	K	343	LEU	N-CA	-5.44	1.39	1.46
1	I	175	LEU	CA-C	-5.44	1.45	1.52
1	B	267	ILE	N-CA	-5.44	1.40	1.46
1	C	284	ASP	CA-C	-5.43	1.45	1.52
1	N	264	ARG	CA-C	-5.43	1.45	1.52
1	Q	321	LEU	N-CA	-5.43	1.39	1.46
1	P	158	VAL	N-CA	-5.43	1.40	1.46
1	E	157	LYS	N-CA	-5.43	1.39	1.46
1	A	180	THR	C-N	-5.43	1.27	1.34
1	B	330	CYS	CA-C	-5.43	1.45	1.52
1	N	315	ASN	N-CA	-5.42	1.39	1.46
1	P	296	TYR	CA-C	-5.42	1.46	1.52
1	M	296	TYR	N-CA	-5.42	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	343	LEU	CA-C	-5.42	1.45	1.52
1	Q	258	VAL	CA-C	-5.42	1.46	1.52
1	K	203	GLU	N-CA	-5.42	1.39	1.46
1	B	213	ASP	CA-C	-5.42	1.45	1.52
1	D	303	THR	N-CA	-5.42	1.39	1.46
1	A	336	ALA	N-CA	-5.41	1.39	1.46
1	B	298	ASP	C-N	-5.41	1.26	1.33
1	L	158	VAL	CA-C	-5.41	1.46	1.52
1	M	171	MET	CA-C	-5.41	1.45	1.52
1	P	300	PHE	C-O	-5.41	1.17	1.24
1	Q	156	VAL	CA-C	-5.41	1.45	1.52
1	L	307	GLU	C-N	5.41	1.40	1.33
1	C	252	HIS	CA-C	-5.41	1.45	1.53
1	E	313	VAL	N-CA	-5.41	1.40	1.46
1	F	293	PHE	N-CA	-5.41	1.39	1.46
1	O	180	THR	C-N	-5.41	1.27	1.34
1	Q	310	SER	CA-C	-5.41	1.46	1.52
1	R	239	THR	CA-C	-5.41	1.45	1.52
1	B	277	TYR	N-CA	-5.41	1.39	1.46
1	D	207	GLU	CA-C	-5.41	1.45	1.52
1	G	327	ASN	C-N	-5.41	1.25	1.33
1	F	185	ASN	CA-C	-5.40	1.45	1.52
1	L	169	ILE	CA-C	-5.40	1.47	1.52
1	K	269	GLY	C-N	-5.40	1.26	1.33
1	Q	276	MET	CA-C	-5.40	1.44	1.52
1	F	296	TYR	C-N	-5.40	1.27	1.33
1	B	156	VAL	N-CA	-5.39	1.40	1.46
1	A	264	ARG	N-CA	-5.39	1.39	1.46
1	P	276	MET	CA-C	-5.39	1.45	1.52
1	C	195	GLN	CA-C	-5.39	1.45	1.52
1	N	286	ARG	CA-C	-5.39	1.45	1.52
1	P	271	ASN	N-CA	-5.39	1.40	1.46
1	R	199	GLN	N-CA	-5.39	1.40	1.46
1	C	207	GLU	CA-C	-5.39	1.45	1.52
1	G	261	ILE	N-CA	-5.39	1.40	1.46
1	I	186	THR	CA-C	-5.39	1.46	1.52
1	L	155	TRP	N-CA	-5.39	1.40	1.46
1	C	314	LYS	C-N	-5.38	1.26	1.33
1	G	152	LEU	N-CA	-5.38	1.40	1.46
1	I	187	MET	N-CA	-5.38	1.39	1.46
1	E	211	GLU	N-CA	-5.38	1.39	1.46
1	O	273	ILE	CA-C	-5.38	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	235	ASP	CA-C	-5.38	1.46	1.52
1	M	287	GLN	CA-C	-5.38	1.45	1.53
1	Q	187	MET	C-N	-5.38	1.26	1.33
1	F	197	ALA	CA-C	-5.38	1.46	1.52
1	B	250	MET	CA-C	-5.38	1.45	1.52
1	H	153	ASN	N-CA	-5.38	1.39	1.46
1	M	289	PRO	CA-C	-5.38	1.44	1.52
1	I	199	GLN	CA-C	-5.38	1.46	1.52
1	O	151	THR	CA-C	-5.38	1.45	1.52
1	G	334	LEU	N-CA	-5.38	1.39	1.46
1	M	160	GLU	N-CA	-5.37	1.39	1.46
1	M	292	PRO	CA-C	-5.37	1.44	1.52
1	M	323	VAL	CA-C	-5.37	1.46	1.52
1	Q	262	TYR	CA-C	-5.37	1.45	1.52
1	K	294	ARG	C-N	-5.37	1.26	1.33
1	K	311	GLN	N-CA	-5.37	1.39	1.46
1	E	264	ARG	N-CA	-5.36	1.39	1.46
1	H	202	LYS	CA-C	-5.36	1.45	1.52
1	N	285	ILE	CA-C	-5.36	1.48	1.53
1	Q	320	THR	CA-C	-5.36	1.45	1.52
1	E	335	LYS	CA-C	-5.36	1.45	1.52
1	E	259	GLY	CA-C	-5.36	1.46	1.52
1	N	196	ALA	CA-C	-5.35	1.46	1.52
1	C	331	LYS	N-CA	-5.35	1.39	1.46
1	G	323	VAL	CA-C	-5.35	1.45	1.52
1	Q	335	LYS	CA-C	-5.35	1.45	1.52
1	D	346	MET	CA-C	-5.35	1.46	1.52
1	J	299	ARG	CA-C	-5.35	1.45	1.52
1	A	294	ARG	C-N	-5.35	1.26	1.33
1	B	307	GLU	CA-C	-5.35	1.45	1.53
1	H	299	ARG	C-N	-5.35	1.27	1.33
1	K	297	VAL	CA-C	-5.35	1.45	1.52
1	L	235	ASP	CA-C	-5.35	1.46	1.52
1	F	274	VAL	N-CA	-5.35	1.40	1.46
1	I	347	MET	CA-C	-5.35	1.45	1.52
1	M	256	ILE	N-CA	-5.35	1.40	1.46
1	B	183	ASP	CA-C	-5.34	1.46	1.52
1	D	315	ASN	N-CA	-5.34	1.40	1.46
1	D	262	TYR	N-CA	-5.34	1.39	1.46
1	D	267	ILE	N-CA	-5.34	1.40	1.46
1	J	335	LYS	CA-C	-5.34	1.46	1.52
1	M	206	ASN	N-CA	-5.34	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	343	LEU	N-CA	-5.34	1.39	1.46
1	H	317	MET	CA-C	-5.34	1.45	1.52
1	N	296	TYR	C-N	-5.34	1.27	1.33
1	D	287	GLN	N-CA	-5.34	1.39	1.46
1	A	212	TRP	N-CA	-5.34	1.40	1.46
1	B	156	VAL	CA-C	-5.34	1.45	1.52
1	N	284	ASP	CA-C	-5.34	1.45	1.52
1	N	303	THR	N-CA	-5.34	1.40	1.46
1	P	304	LEU	CA-C	-5.34	1.45	1.52
1	Q	265	TRP	CA-C	-5.34	1.46	1.52
1	D	214	ARG	N-CA	-5.33	1.40	1.46
1	R	292	PRO	CA-C	-5.33	1.44	1.52
1	B	303	THR	C-O	-5.33	1.17	1.24
1	C	180	THR	CA-C	-5.33	1.45	1.52
1	K	156	VAL	N-CA	-5.33	1.40	1.46
1	K	300	PHE	C-O	-5.33	1.18	1.24
1	R	214	ARG	N-CA	-5.33	1.40	1.46
1	O	299	ARG	CA-C	-5.33	1.45	1.52
1	Q	315	ASN	CA-C	-5.33	1.46	1.52
1	N	290	LYS	CA-C	-5.32	1.47	1.52
1	P	252	HIS	CA-C	-5.32	1.46	1.52
1	L	180	THR	C-N	-5.32	1.27	1.34
1	H	216	HIS	N-CA	-5.32	1.38	1.46
1	F	315	ASN	CA-C	-5.32	1.46	1.52
1	Q	209	ALA	N-CA	-5.32	1.40	1.46
1	Q	188	LEU	CA-C	-5.32	1.45	1.52
1	I	242	THR	CA-C	-5.31	1.46	1.53
1	J	320	THR	CA-C	-5.31	1.45	1.52
1	D	247	ILE	CA-C	-5.31	1.46	1.52
1	R	210	ALA	N-CA	-5.31	1.40	1.46
1	L	287	GLN	N-CA	-5.31	1.39	1.46
1	E	296	TYR	C-N	-5.31	1.27	1.33
1	F	329	ASP	N-CA	-5.31	1.39	1.46
1	O	310	SER	C-N	-5.31	1.26	1.33
1	C	153	ASN	CA-C	-5.31	1.45	1.52
1	M	303	THR	N-CA	-5.31	1.39	1.46
1	I	199	GLN	N-CA	-5.30	1.40	1.46
1	I	333	ILE	N-CA	-5.30	1.40	1.46
1	B	311	GLN	N-CA	-5.30	1.40	1.46
1	A	303	THR	N-CA	-5.30	1.39	1.46
1	Q	191	VAL	N-CA	-5.30	1.40	1.46
1	R	216	HIS	CA-C	-5.30	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	310	SER	C-N	-5.30	1.26	1.33
1	D	154	ALA	N-CA	-5.30	1.40	1.46
1	K	188	LEU	N-CA	-5.30	1.39	1.46
1	L	203	GLU	N-CA	-5.30	1.40	1.46
1	C	347	MET	CA-C	-5.29	1.45	1.52
1	M	189	ASN	CA-C	-5.29	1.46	1.52
1	D	243	LEU	CA-C	-5.29	1.45	1.52
1	F	208	GLU	N-CA	-5.29	1.40	1.46
1	M	343	LEU	N-CA	-5.29	1.39	1.46
1	N	326	ALA	N-CA	-5.29	1.39	1.46
1	B	295	ASP	C-O	-5.29	1.17	1.24
1	B	335	LYS	CA-C	-5.29	1.45	1.52
1	D	161	GLU	N-CA	-5.29	1.39	1.46
1	C	156	VAL	CA-C	-5.29	1.46	1.52
1	K	268	LEU	N-CA	-5.29	1.40	1.46
1	E	194	HIS	CA-C	-5.29	1.46	1.53
1	I	172	PHE	CA-C	-5.29	1.46	1.52
1	H	184	LEU	N-CA	-5.29	1.40	1.46
1	P	181	PRO	N-CA	-5.29	1.40	1.47
1	I	240	THR	CA-C	-5.29	1.45	1.52
1	O	198	MET	C-N	-5.29	1.27	1.33
1	Q	273	ILE	N-CA	-5.29	1.40	1.46
1	A	347	MET	CA-C	-5.28	1.46	1.52
1	C	286	ARG	CA-C	-5.28	1.45	1.52
1	L	330	CYS	CA-C	-5.28	1.46	1.52
1	C	262	TYR	CA-C	-5.28	1.46	1.52
1	M	214	ARG	N-CA	-5.28	1.40	1.46
1	B	152	LEU	CA-C	-5.28	1.46	1.52
1	H	321	LEU	CA-C	-5.28	1.45	1.52
1	A	216	HIS	CA-C	-5.28	1.46	1.52
1	P	201	LEU	N-CA	-5.28	1.40	1.46
1	D	212	TRP	N-CA	-5.27	1.40	1.46
1	I	264	ARG	N-CA	-5.27	1.40	1.46
1	I	161	GLU	CA-C	-5.27	1.46	1.52
1	D	181	PRO	CA-C	-5.27	1.45	1.52
1	G	157	LYS	N-CA	-5.27	1.39	1.46
1	G	159	VAL	CA-C	-5.27	1.46	1.52
1	Q	186	THR	CA-C	-5.27	1.46	1.52
1	A	293	PHE	N-CA	-5.27	1.40	1.46
1	L	181	PRO	C-O	-5.26	1.18	1.24
1	C	181	PRO	CA-C	-5.26	1.44	1.52
1	N	239	THR	CA-C	-5.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	152	LEU	N-CA	-5.26	1.40	1.46
1	N	318	THR	CA-C	-5.26	1.46	1.52
1	M	162	LYS	CA-C	-5.26	1.45	1.52
1	Q	153	ASN	CA-C	-5.26	1.46	1.52
1	E	212	TRP	N-CA	-5.26	1.40	1.46
1	K	303	THR	C-N	-5.26	1.27	1.33
1	O	249	TRP	N-CA	-5.26	1.40	1.46
1	C	348	THR	CA-C	-5.25	1.45	1.52
1	P	294	ARG	C-N	-5.25	1.26	1.33
1	C	190	THR	CA-C	-5.25	1.45	1.52
1	F	266	ILE	N-CA	-5.25	1.40	1.46
1	H	161	GLU	N-CA	-5.25	1.39	1.46
1	H	235	ASP	CA-C	-5.25	1.46	1.52
1	L	326	ALA	CA-C	-5.25	1.46	1.53
1	O	326	ALA	N-CA	-5.25	1.38	1.45
1	Q	256	ILE	N-CA	-5.25	1.40	1.46
1	E	275	ARG	CA-C	-5.25	1.45	1.52
1	I	234	SER	CA-C	-5.25	1.46	1.52
1	I	327	ASN	C-N	-5.25	1.26	1.34
1	C	292	PRO	CA-C	-5.24	1.47	1.52
1	N	303	THR	CA-C	-5.24	1.46	1.52
1	B	263	LYS	N-CA	-5.24	1.40	1.46
1	E	164	PHE	C-N	5.24	1.39	1.33
1	E	333	ILE	CA-C	-5.24	1.46	1.52
1	D	345	GLU	N-CA	-5.24	1.40	1.46
1	I	239	THR	N-CA	-5.24	1.40	1.46
1	P	344	GLU	CA-C	-5.24	1.46	1.52
1	H	314	LYS	C-N	-5.24	1.27	1.33
1	I	266	ILE	N-CA	-5.24	1.40	1.46
1	C	346	MET	CA-C	-5.24	1.46	1.52
1	E	204	THR	N-CA	-5.23	1.40	1.46
1	G	258	VAL	CA-C	-5.23	1.46	1.52
1	K	319	GLU	CA-C	-5.23	1.45	1.52
1	P	203	GLU	N-CA	-5.23	1.40	1.46
1	R	311	GLN	C-N	-5.23	1.27	1.33
1	K	327	ASN	CA-C	-5.23	1.46	1.52
1	M	266	ILE	N-CA	-5.23	1.40	1.46
1	M	318	THR	N-CA	-5.23	1.40	1.46
1	A	278	SER	N-CA	-5.23	1.41	1.46
1	J	327	ASN	C-N	-5.22	1.26	1.34
1	M	348	THR	CA-C	-5.22	1.46	1.52
1	O	265	TRP	C-N	-5.22	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	213	ASP	CA-C	-5.22	1.46	1.52
1	Q	265	TRP	C-N	-5.22	1.27	1.33
1	K	261	ILE	N-CA	-5.22	1.40	1.46
1	D	148	SER	C-N	-5.22	1.27	1.34
1	B	244	GLN	CA-C	-5.22	1.46	1.52
1	I	250	MET	N-CA	-5.22	1.40	1.46
1	D	202	LYS	CA-C	-5.21	1.46	1.52
1	J	208	GLU	CA-C	-5.21	1.46	1.52
1	L	200	MET	N-CA	-5.21	1.40	1.46
1	H	348	THR	CA-C	-5.21	1.45	1.52
1	Q	232	ARG	CA-C	-5.21	1.48	1.53
1	I	328	PRO	CA-C	-5.20	1.44	1.52
1	H	154	ALA	N-CA	-5.20	1.40	1.46
1	I	260	GLU	CA-C	-5.20	1.46	1.52
1	B	202	LYS	N-CA	-5.20	1.40	1.46
1	N	295	ASP	C-O	-5.20	1.18	1.24
1	P	286	ARG	CA-C	-5.20	1.46	1.52
1	K	198	MET	CA-C	-5.20	1.46	1.52
1	K	303	THR	N-CA	-5.20	1.39	1.46
1	N	238	GLY	CA-C	-5.20	1.44	1.51
1	P	299	ARG	N-CA	-5.20	1.40	1.46
1	I	230	GLU	N-CA	-5.19	1.42	1.46
1	G	200	MET	C-N	-5.19	1.27	1.33
1	K	157	LYS	N-CA	-5.19	1.40	1.46
1	L	181	PRO	CA-C	-5.19	1.44	1.52
1	J	185	ASN	C-O	-5.19	1.18	1.24
1	N	154	ALA	N-CA	-5.19	1.40	1.46
1	B	195	GLN	CA-C	-5.19	1.46	1.52
1	B	201	LEU	CA-C	-5.19	1.46	1.52
1	B	347	MET	CA-C	-5.19	1.46	1.52
1	D	310	SER	CA-C	-5.19	1.45	1.52
1	I	182	GLN	CA-C	-5.19	1.45	1.52
1	O	266	ILE	N-CA	-5.18	1.40	1.46
1	O	312	GLU	N-CA	-5.18	1.40	1.46
1	N	347	MET	CA-C	-5.18	1.46	1.52
1	R	212	TRP	N-CA	-5.18	1.40	1.46
1	H	176	SER	CA-C	-5.18	1.48	1.53
1	O	294	ARG	C-N	-5.18	1.26	1.33
1	D	276	MET	N-CA	-5.18	1.39	1.46
1	H	264	ARG	N-CA	-5.18	1.39	1.46
1	K	239	THR	CA-C	-5.18	1.46	1.52
1	A	335	LYS	CA-C	-5.17	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	214	ARG	N-CA	-5.17	1.40	1.46
1	R	249	TRP	N-CA	-5.17	1.40	1.46
1	O	303	THR	C-N	-5.17	1.27	1.33
1	F	348	THR	CA-C	-5.17	1.46	1.52
1	O	156	VAL	N-CA	-5.17	1.40	1.46
1	R	245	GLU	N-CA	-5.17	1.39	1.46
1	F	311	GLN	CA-C	-5.17	1.46	1.52
1	R	158	VAL	N-CA	-5.17	1.40	1.46
1	B	295	ASP	C-N	-5.17	1.27	1.33
1	E	153	ASN	C-O	-5.17	1.18	1.24
1	G	303	THR	CA-C	-5.17	1.45	1.52
1	I	346	MET	CA-C	-5.17	1.46	1.52
1	O	325	ASN	CA-C	-5.17	1.45	1.52
1	B	263	LYS	CA-C	-5.16	1.46	1.52
1	M	267	ILE	CA-C	-5.16	1.46	1.52
1	B	289	PRO	N-CA	-5.16	1.40	1.47
1	C	159	VAL	CA-C	-5.16	1.46	1.52
1	G	281	SER	N-CA	-5.16	1.39	1.45
1	P	314	LYS	N-CA	-5.16	1.40	1.46
1	Q	344	GLU	CA-C	-5.16	1.46	1.52
1	G	149	PRO	CA-C	-5.16	1.43	1.52
1	R	273	ILE	N-CA	-5.15	1.40	1.46
1	D	335	LYS	CA-C	-5.15	1.45	1.52
1	P	154	ALA	N-CA	-5.15	1.40	1.46
1	G	272	LYS	CA-C	-5.15	1.46	1.52
1	Q	188	LEU	N-CA	-5.15	1.39	1.46
1	C	271	ASN	CA-C	-5.14	1.46	1.52
1	R	252	HIS	N-CA	-5.14	1.40	1.46
1	P	295	ASP	C-O	-5.14	1.18	1.24
1	K	208	GLU	CA-C	-5.14	1.46	1.52
1	B	311	GLN	CA-C	-5.14	1.46	1.52
1	A	157	LYS	C-N	-5.13	1.27	1.33
1	B	265	TRP	CA-C	-5.13	1.46	1.52
1	O	265	TRP	CA-C	-5.13	1.46	1.52
1	Q	346	MET	N-CA	-5.13	1.40	1.46
1	I	154	ALA	N-CA	-5.13	1.40	1.46
1	J	332	THR	CA-C	-5.13	1.46	1.52
1	B	287	GLN	N-CA	-5.13	1.39	1.46
1	D	306	ALA	N-CA	-5.13	1.39	1.46
1	G	272	LYS	N-CA	-5.13	1.40	1.46
1	G	273	ILE	CA-C	-5.13	1.46	1.52
1	P	251	THR	CA-C	-5.13	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	292	PRO	CA-C	-5.13	1.46	1.52
1	P	196	ALA	CA-C	-5.13	1.46	1.52
1	P	262	TYR	N-CA	-5.13	1.40	1.46
1	C	290	LYS	CA-C	-5.13	1.47	1.53
1	G	268	LEU	N-CA	-5.13	1.40	1.46
1	K	185	ASN	CA-C	-5.13	1.46	1.52
1	D	297	VAL	CA-C	-5.12	1.45	1.52
1	B	170	PRO	CA-C	-5.12	1.44	1.52
1	G	281	SER	CA-C	-5.12	1.46	1.52
1	H	304	LEU	N-CA	-5.12	1.40	1.46
1	Q	319	GLU	CA-C	-5.12	1.45	1.52
1	E	301	ALA	N-CA	-5.12	1.40	1.46
1	H	205	ILE	C-N	-5.12	1.27	1.33
1	L	214	ARG	N-CA	-5.12	1.40	1.46
1	M	170	PRO	C-N	-5.12	1.27	1.33
1	P	202	LYS	CA-C	-5.12	1.45	1.52
1	E	315	ASN	CA-C	-5.12	1.46	1.52
1	G	196	ALA	CA-C	-5.12	1.46	1.52
1	H	201	LEU	N-CA	-5.12	1.40	1.46
1	M	296	TYR	C-N	-5.12	1.27	1.33
1	O	156	VAL	CA-C	-5.12	1.46	1.52
1	F	207	GLU	CA-C	-5.11	1.45	1.52
1	I	157	LYS	CA-C	-5.11	1.46	1.52
1	M	239	THR	CA-C	-5.11	1.46	1.52
1	L	187	MET	N-CA	-5.11	1.40	1.46
1	O	300	PHE	C-N	-5.11	1.27	1.33
1	Q	196	ALA	CA-C	-5.11	1.46	1.52
1	R	245	GLU	CA-C	-5.11	1.45	1.52
1	G	298	ASP	C-N	-5.11	1.27	1.33
1	J	239	THR	CA-C	-5.11	1.46	1.52
1	K	245	GLU	CA-C	-5.11	1.45	1.52
1	N	185	ASN	C-O	-5.11	1.18	1.24
1	C	244	GLN	CA-C	-5.11	1.46	1.52
1	A	214	ARG	N-CA	-5.11	1.40	1.46
1	C	345	GLU	N-CA	-5.10	1.40	1.46
1	G	187	MET	N-CA	-5.10	1.40	1.46
1	G	299	ARG	N-CA	-5.10	1.40	1.46
1	K	314	LYS	C-N	-5.10	1.27	1.33
1	P	272	LYS	CA-C	-5.10	1.46	1.52
1	F	172	PHE	N-CA	-5.10	1.40	1.46
1	P	151	THR	N-CA	-5.10	1.40	1.46
1	Q	250	MET	CA-C	-5.10	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	311	GLN	N-CA	-5.10	1.40	1.46
1	L	317	MET	CA-C	-5.10	1.45	1.52
1	E	299	ARG	C-N	-5.10	1.27	1.33
1	I	321	LEU	N-CA	-5.09	1.39	1.45
1	I	271	ASN	CA-C	-5.09	1.46	1.52
1	H	274	VAL	N-CA	-5.09	1.40	1.46
1	Q	148	SER	CA-C	-5.09	1.48	1.53
1	G	173	SER	CA-C	-5.09	1.45	1.52
1	A	300	PHE	CA-C	-5.08	1.46	1.52
1	G	181	PRO	C-O	-5.08	1.18	1.24
1	R	327	ASN	C-N	-5.08	1.27	1.34
1	E	344	GLU	CA-C	-5.08	1.46	1.52
1	Q	268	LEU	N-CA	-5.08	1.40	1.46
1	I	331	LYS	CA-C	-5.08	1.46	1.52
1	L	344	GLU	CA-C	-5.08	1.46	1.52
1	R	347	MET	CA-C	-5.08	1.46	1.52
1	C	267	ILE	CA-C	-5.08	1.46	1.52
1	O	274	VAL	CA-C	-5.08	1.46	1.52
1	I	250	MET	CA-C	-5.08	1.46	1.52
1	O	310	SER	CA-C	-5.08	1.46	1.52
1	A	292	PRO	CA-C	-5.07	1.47	1.52
1	D	172	PHE	N-CA	-5.07	1.40	1.46
1	J	314	LYS	C-N	-5.07	1.27	1.33
1	N	327	ASN	CA-C	-5.07	1.46	1.53
1	R	276	MET	CA-C	-5.07	1.46	1.52
1	I	300	PHE	C-N	-5.07	1.27	1.33
1	J	255	PRO	CA-C	-5.07	1.45	1.52
1	J	295	ASP	C-O	-5.07	1.18	1.24
1	C	249	TRP	N-CA	-5.07	1.40	1.46
1	H	195	GLN	N-CA	-5.07	1.40	1.46
1	H	257	PRO	CA-C	-5.07	1.47	1.53
1	P	189	ASN	CA-C	-5.07	1.46	1.52
1	H	250	MET	N-CA	-5.07	1.40	1.46
1	J	286	ARG	N-CA	-5.07	1.38	1.46
1	L	342	THR	CA-C	-5.07	1.46	1.53
1	O	188	LEU	N-CA	-5.07	1.39	1.46
1	I	252	HIS	CA-C	-5.06	1.47	1.53
1	D	153	ASN	N-CA	-5.06	1.40	1.46
1	E	267	ILE	N-CA	-5.06	1.40	1.46
1	G	343	LEU	N-CA	-5.06	1.40	1.46
1	M	335	LYS	CA-C	-5.06	1.46	1.52
1	Q	189	ASN	CA-C	-5.06	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	150	ARG	CA-C	-5.06	1.46	1.52
1	O	210	ALA	CA-C	-5.06	1.46	1.52
1	I	159	VAL	N-CA	-5.06	1.40	1.46
1	R	235	ASP	CA-C	-5.06	1.46	1.52
1	B	206	ASN	CA-C	-5.06	1.46	1.52
1	N	205	ILE	N-CA	-5.06	1.40	1.46
1	O	180	THR	CA-C	-5.06	1.45	1.52
1	O	251	THR	CA-C	-5.06	1.45	1.52
1	A	156	VAL	CA-C	-5.06	1.46	1.52
1	J	206	ASN	CA-C	-5.05	1.45	1.52
1	P	212	TRP	C-O	-5.05	1.18	1.24
1	J	315	ASN	CA-C	-5.05	1.46	1.52
1	M	333	ILE	CA-C	-5.05	1.46	1.52
1	N	334	LEU	CA-C	-5.05	1.46	1.52
1	C	298	ASP	C-N	-5.05	1.27	1.33
1	D	294	ARG	C-N	-5.05	1.27	1.33
1	E	348	THR	N-CA	-5.05	1.40	1.46
1	P	304	LEU	N-CA	-5.05	1.40	1.46
1	I	151	THR	CA-C	-5.05	1.46	1.52
1	N	307	GLU	C-N	5.05	1.40	1.33
1	D	174	ALA	N-CA	-5.05	1.40	1.46
1	I	342	THR	C-N	-5.05	1.27	1.33
1	J	344	GLU	CA-C	-5.05	1.46	1.52
1	O	252	HIS	CA-C	-5.05	1.46	1.53
1	A	264	ARG	CA-C	-5.04	1.45	1.52
1	C	293	PHE	N-CA	-5.04	1.40	1.46
1	G	314	LYS	C-N	-5.04	1.27	1.33
1	A	251	THR	CA-C	-5.04	1.45	1.52
1	D	251	THR	CA-C	-5.04	1.45	1.52
1	O	263	LYS	N-CA	-5.04	1.40	1.46
1	B	197	ALA	CA-C	-5.04	1.46	1.52
1	F	162	LYS	CA-C	-5.04	1.46	1.52
1	J	186	THR	N-CA	-5.04	1.40	1.46
1	O	296	TYR	C-N	-5.04	1.27	1.33
1	C	201	LEU	CA-C	-5.04	1.46	1.52
1	F	343	LEU	CA-C	-5.04	1.46	1.52
1	H	148	SER	C-N	-5.04	1.27	1.34
1	J	165	SER	CA-C	5.04	1.58	1.52
1	J	263	LYS	N-CA	-5.04	1.40	1.46
1	N	196	ALA	N-CA	-5.04	1.40	1.46
1	I	341	ALA	CA-C	-5.03	1.46	1.52
1	D	277	TYR	N-CA	-5.03	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	210	ALA	CA-C	-5.03	1.46	1.52
1	P	212	TRP	N-CA	-5.03	1.40	1.46
1	D	196	ALA	N-CA	-5.03	1.40	1.46
1	R	212	TRP	C-O	-5.03	1.18	1.24
1	N	210	ALA	N-CA	-5.03	1.40	1.46
1	O	158	VAL	CA-C	-5.03	1.46	1.52
1	O	185	ASN	CA-C	-5.03	1.46	1.52
1	A	215	LEU	CA-C	-5.02	1.45	1.52
1	A	286	ARG	CA-C	-5.02	1.46	1.52
1	E	187	MET	N-CA	-5.02	1.40	1.46
1	Q	186	THR	N-CA	-5.02	1.40	1.46
1	Q	245	GLU	CA-C	-5.02	1.46	1.52
1	D	210	ALA	CA-C	-5.02	1.46	1.52
1	I	300	PHE	C-O	-5.02	1.18	1.24
1	I	300	PHE	N-CA	-5.02	1.40	1.46
1	B	234	SER	CA-C	-5.02	1.46	1.52
1	R	327	ASN	N-CA	-5.02	1.38	1.45
1	C	344	GLU	C-N	-5.01	1.27	1.33
1	P	246	GLN	N-CA	-5.01	1.39	1.46
1	E	156	VAL	N-CA	-5.01	1.40	1.46
1	L	216	HIS	CA-C	-5.01	1.46	1.53
1	L	272	LYS	CA-C	-5.01	1.46	1.52
1	H	300	PHE	C-O	-5.01	1.18	1.24
1	D	297	VAL	N-CA	-5.01	1.39	1.46
1	C	216	HIS	CA-C	-5.00	1.46	1.52
1	I	185	ASN	CA-C	-5.00	1.46	1.52
1	O	347	MET	N-CA	-5.00	1.40	1.46
1	R	155	TRP	N-CA	-5.00	1.40	1.46
1	E	317	MET	CA-C	-5.00	1.46	1.52
1	P	156	VAL	N-CA	-5.00	1.40	1.46
1	K	149	PRO	CA-C	-5.00	1.44	1.52
1	M	207	GLU	CA-C	-5.00	1.46	1.52

All (1599) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	343	LEU	N-CA-C	15.50	127.66	111.07
1	J	343	LEU	N-CA-C	14.79	126.90	111.07
1	P	270	LEU	CA-C-N	13.39	137.85	120.44
1	P	270	LEU	C-N-CA	13.39	137.85	120.44
1	L	343	LEU	N-CA-C	13.09	125.08	111.07
1	B	168	VAL	CA-C-N	12.98	130.71	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	168	VAL	C-N-CA	12.98	130.71	120.33
1	D	270	LEU	N-CA-C	12.35	126.27	111.33
1	M	294	ARG	CA-C-N	12.18	137.59	120.29
1	M	294	ARG	C-N-CA	12.18	137.59	120.29
1	B	169	ILE	O-C-N	-12.15	112.64	120.42
1	R	168	VAL	CA-C-O	12.09	129.54	118.90
1	E	168	VAL	CA-C-O	12.03	129.39	119.29
1	B	168	VAL	CA-C-O	11.91	129.38	118.90
1	N	247	ILE	CA-C-N	11.74	132.98	119.94
1	N	247	ILE	C-N-CA	11.74	132.98	119.94
1	L	233	GLY	N-CA-C	11.70	127.10	112.83
1	K	167	GLU	CA-C-N	11.64	135.70	121.85
1	K	167	GLU	C-N-CA	11.64	135.70	121.85
1	K	270	LEU	N-CA-C	11.55	125.31	111.33
1	C	247	ILE	CA-C-N	11.52	132.72	119.94
1	C	247	ILE	C-N-CA	11.52	132.72	119.94
1	P	163	ALA	N-CA-C	11.51	124.92	111.11
1	A	270	LEU	CA-C-N	11.44	135.61	120.28
1	A	270	LEU	C-N-CA	11.44	135.61	120.28
1	H	270	LEU	CA-C-N	11.43	135.29	120.44
1	H	270	LEU	C-N-CA	11.43	135.29	120.44
1	K	294	ARG	CA-C-N	11.43	136.51	120.29
1	K	294	ARG	C-N-CA	11.43	136.51	120.29
1	B	270	LEU	N-CA-C	11.36	125.08	111.33
1	O	159	VAL	N-CA-C	11.31	121.28	110.42
1	N	238	GLY	CA-C-N	11.27	135.38	120.28
1	N	238	GLY	C-N-CA	11.27	135.38	120.28
1	J	243	LEU	N-CA-C	11.24	124.73	111.02
1	H	163	ALA	N-CA-C	11.19	129.84	111.37
1	O	168	VAL	CA-C-O	11.17	128.67	119.29
1	H	270	LEU	CA-C-O	11.03	132.54	120.63
1	I	168	VAL	CA-C-O	10.98	128.51	119.29
1	F	293	PHE	N-CA-C	10.87	123.13	111.28
1	B	169	ILE	N-CA-C	10.82	125.34	112.35
1	B	194	HIS	CA-C-N	10.82	134.77	120.28
1	B	194	HIS	C-N-CA	10.82	134.77	120.28
1	H	243	LEU	N-CA-C	10.71	122.64	110.97
1	G	206	ASN	N-CA-C	10.66	122.90	111.28
1	M	308	GLN	N-CA-C	10.62	125.62	110.23
1	I	194	HIS	CA-C-N	10.59	134.89	120.38
1	I	194	HIS	C-N-CA	10.59	134.89	120.38
1	H	162	LYS	CA-C-N	10.57	136.68	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	162	LYS	C-N-CA	10.57	136.68	120.82
1	D	270	LEU	CA-C-N	10.53	134.12	120.44
1	D	270	LEU	C-N-CA	10.53	134.12	120.44
1	L	168	VAL	CA-C-O	10.44	128.06	119.29
1	N	343	LEU	N-CA-C	10.40	123.92	111.33
1	E	270	LEU	CA-C-N	10.39	134.21	120.28
1	E	270	LEU	C-N-CA	10.39	134.21	120.28
1	G	306	ALA	N-CA-C	10.38	125.76	112.89
1	Q	311	GLN	N-CA-C	10.37	122.66	111.36
1	M	265	TRP	CA-C-O	10.36	131.70	120.82
1	J	261	ILE	CA-C-N	10.32	134.11	120.28
1	J	261	ILE	C-N-CA	10.32	134.11	120.28
1	P	184	LEU	CA-C-N	10.32	134.11	120.28
1	P	184	LEU	C-N-CA	10.32	134.11	120.28
1	Q	293	PHE	CA-C-N	10.28	133.80	120.44
1	Q	293	PHE	C-N-CA	10.28	133.80	120.44
1	F	294	ARG	CA-C-N	10.18	133.93	120.28
1	F	294	ARG	C-N-CA	10.18	133.93	120.28
1	R	270	LEU	N-CA-C	10.15	123.61	111.33
1	J	256	ILE	N-CA-C	-10.06	98.19	108.15
1	O	194	HIS	CA-C-N	10.04	133.73	120.28
1	O	194	HIS	C-N-CA	10.04	133.73	120.28
1	A	289	PRO	N-CA-C	-10.01	91.86	112.47
1	C	294	ARG	CA-C-N	9.99	133.66	120.28
1	C	294	ARG	C-N-CA	9.99	133.66	120.28
1	I	264	ARG	CA-C-N	9.97	133.65	120.28
1	I	264	ARG	C-N-CA	9.97	133.65	120.28
1	M	306	ALA	N-CA-C	9.97	125.25	112.89
1	J	165	SER	N-CA-C	9.93	120.92	108.11
1	J	247	ILE	CA-C-N	9.92	130.95	119.94
1	J	247	ILE	C-N-CA	9.92	130.95	119.94
1	Q	321	LEU	N-CA-C	-9.88	101.73	113.88
1	B	247	ILE	CA-C-N	9.86	130.88	119.94
1	B	247	ILE	C-N-CA	9.86	130.88	119.94
1	D	314	LYS	CA-C-N	-9.85	107.04	120.44
1	D	314	LYS	C-N-CA	-9.85	107.04	120.44
1	A	167	GLU	CA-C-N	9.79	132.90	121.84
1	A	167	GLU	C-N-CA	9.79	132.90	121.84
1	A	261	ILE	CA-C-N	9.76	133.36	120.28
1	A	261	ILE	C-N-CA	9.76	133.36	120.28
1	G	308	GLN	N-CA-C	9.75	124.37	110.23
1	F	242	THR	N-CA-C	-9.72	95.95	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	270	LEU	N-CA-C	9.72	123.09	111.33
1	R	341	ALA	CA-C-N	9.69	136.39	122.24
1	R	341	ALA	C-N-CA	9.69	136.39	122.24
1	L	167	GLU	N-CA-C	9.69	124.85	109.83
1	K	271	ASN	N-CA-C	9.63	121.38	111.07
1	O	327	ASN	N-CA-C	-9.60	97.72	109.72
1	B	270	LEU	CA-C-N	9.60	132.92	120.44
1	B	270	LEU	C-N-CA	9.60	132.92	120.44
1	E	313	VAL	O-C-N	9.56	131.28	121.91
1	K	308	GLN	N-CA-C	9.53	124.50	108.20
1	A	294	ARG	CA-C-N	9.51	133.03	120.28
1	A	294	ARG	C-N-CA	9.51	133.03	120.28
1	G	246	GLN	N-CA-C	-9.43	100.69	110.97
1	Q	265	TRP	CA-C-O	9.41	130.70	120.82
1	B	169	ILE	CA-C-O	-9.37	112.41	118.69
1	J	166	PRO	N-CA-C	9.37	131.77	112.47
1	D	315	ASN	N-CA-C	9.35	121.24	111.14
1	P	168	VAL	CA-C-O	9.34	127.14	119.29
1	G	327	ASN	CA-C-O	-9.32	111.47	119.76
1	C	270	LEU	N-CA-C	9.30	122.59	111.33
1	I	277	TYR	N-CA-C	-9.30	92.29	108.20
1	L	234	SER	CA-C-O	9.27	130.24	120.42
1	B	314	LYS	CA-C-N	-9.26	107.85	120.44
1	B	314	LYS	C-N-CA	-9.26	107.85	120.44
1	D	294	ARG	CA-C-N	9.26	132.68	120.28
1	D	294	ARG	C-N-CA	9.26	132.68	120.28
1	L	166	PRO	N-CA-C	9.22	131.46	112.47
1	I	197	ALA	N-CA-C	9.22	120.93	111.07
1	H	293	PHE	N-CA-C	9.18	123.50	111.75
1	E	165	SER	N-CA-C	9.18	123.10	108.23
1	A	195	GLN	CA-C-N	9.17	132.37	120.44
1	A	195	GLN	C-N-CA	9.17	132.37	120.44
1	N	165	SER	O-C-N	-9.15	115.44	121.85
1	N	163	ALA	N-CA-C	9.14	126.44	111.37
1	G	330	CYS	CA-C-N	9.12	132.50	120.28
1	G	330	CYS	C-N-CA	9.12	132.50	120.28
1	F	286	ARG	N-CA-C	-9.06	94.92	108.79
1	M	258	VAL	N-CA-C	9.05	119.08	110.30
1	P	270	LEU	CA-C-O	9.04	130.39	120.63
1	R	185	ASN	N-CA-C	-9.02	101.45	111.28
1	H	184	LEU	CA-C-N	9.01	132.36	120.28
1	H	184	LEU	C-N-CA	9.01	132.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	327	ASN	N-CA-C	-8.98	98.33	110.36
1	D	261	ILE	CA-C-N	8.91	132.22	120.28
1	D	261	ILE	C-N-CA	8.91	132.22	120.28
1	J	327	ASN	CA-C-O	-8.86	110.68	120.69
1	B	250	MET	N-CA-C	8.83	120.99	111.36
1	R	311	GLN	CA-C-N	8.83	132.11	120.28
1	R	311	GLN	C-N-CA	8.83	132.11	120.28
1	M	329	ASP	N-CA-C	8.82	120.67	111.14
1	P	181	PRO	N-CA-C	-8.81	102.03	113.57
1	C	314	LYS	CA-C-N	-8.80	108.47	120.44
1	C	314	LYS	C-N-CA	-8.80	108.47	120.44
1	E	144	HIS	N-CA-C	-8.79	95.19	108.99
1	F	314	LYS	CA-C-N	-8.77	108.51	120.44
1	F	314	LYS	C-N-CA	-8.77	108.51	120.44
1	G	168	VAL	CA-C-O	8.76	126.65	119.29
1	B	330	CYS	CA-C-N	8.73	131.98	120.28
1	B	330	CYS	C-N-CA	8.73	131.98	120.28
1	P	270	LEU	N-CA-C	8.71	121.87	111.33
1	I	168	VAL	N-CA-C	-8.68	104.28	112.96
1	F	327	ASN	CA-C-N	8.66	128.67	119.05
1	F	327	ASN	C-N-CA	8.66	128.67	119.05
1	P	194	HIS	CA-C-N	8.63	132.20	120.38
1	P	194	HIS	C-N-CA	8.63	132.20	120.38
1	F	252	HIS	N-CA-C	-8.58	96.64	110.20
1	B	159	VAL	N-CA-C	8.57	118.64	110.42
1	E	159	VAL	N-CA-C	8.56	118.64	110.42
1	Q	270	LEU	N-CA-C	8.54	122.68	111.75
1	E	167	GLU	CA-C-N	8.54	131.49	121.84
1	E	167	GLU	C-N-CA	8.54	131.49	121.84
1	H	194	HIS	CA-C-N	8.52	132.06	120.38
1	H	194	HIS	C-N-CA	8.52	132.06	120.38
1	C	156	VAL	CA-C-N	8.52	132.55	120.28
1	C	156	VAL	C-N-CA	8.52	132.55	120.28
1	F	250	MET	N-CA-C	8.52	120.34	111.14
1	C	194	HIS	CA-C-N	8.51	131.69	120.28
1	C	194	HIS	C-N-CA	8.51	131.69	120.28
1	P	309	ALA	N-CA-C	8.50	128.91	110.80
1	H	267	ILE	N-CA-C	-8.50	101.95	110.62
1	K	270	LEU	CA-C-N	8.49	131.48	120.44
1	K	270	LEU	C-N-CA	8.49	131.48	120.44
1	I	238	GLY	CA-C-N	8.46	134.74	122.21
1	I	238	GLY	C-N-CA	8.46	134.74	122.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	243	LEU	N-CA-C	8.43	121.22	111.11
1	M	347	MET	CA-C-N	8.43	132.26	120.29
1	M	347	MET	C-N-CA	8.43	132.26	120.29
1	B	327	ASN	CA-C-N	8.40	128.38	119.05
1	B	327	ASN	C-N-CA	8.40	128.38	119.05
1	O	306	ALA	N-CA-C	8.39	123.64	113.23
1	B	342	THR	N-CA-C	-8.38	99.23	110.55
1	E	287	GLN	CA-C-N	8.38	135.02	121.87
1	E	287	GLN	C-N-CA	8.38	135.02	121.87
1	J	347	MET	CA-C-N	8.35	132.15	120.29
1	J	347	MET	C-N-CA	8.35	132.15	120.29
1	F	313	VAL	O-C-N	8.35	130.09	121.91
1	N	194	HIS	CA-C-N	8.32	131.78	120.38
1	N	194	HIS	C-N-CA	8.32	131.78	120.38
1	M	168	VAL	CA-C-O	8.32	126.28	119.29
1	D	339	PRO	CA-C-N	8.31	131.77	120.72
1	D	339	PRO	C-N-CA	8.31	131.77	120.72
1	D	252	HIS	N-CA-C	-8.30	98.79	110.50
1	H	294	ARG	N-CA-C	8.29	119.94	111.07
1	D	283	LEU	N-CA-C	8.26	122.46	112.38
1	H	327	ASN	CA-C-N	8.26	128.22	119.05
1	H	327	ASN	C-N-CA	8.26	128.22	119.05
1	Q	313	VAL	O-C-N	8.26	130.01	121.91
1	A	342	THR	N-CA-C	-8.21	99.94	110.53
1	N	347	MET	CA-C-N	8.20	132.08	120.28
1	N	347	MET	C-N-CA	8.20	132.08	120.28
1	L	261	ILE	CA-C-N	8.19	131.26	120.28
1	L	261	ILE	C-N-CA	8.19	131.26	120.28
1	A	314	LYS	CA-C-N	-8.19	109.31	120.44
1	A	314	LYS	C-N-CA	-8.19	109.31	120.44
1	M	307	GLU	N-CA-C	8.18	123.34	110.17
1	M	189	ASN	N-CA-C	-8.16	102.33	111.14
1	N	144	HIS	CA-C-N	8.15	135.74	121.80
1	N	144	HIS	C-N-CA	8.15	135.74	121.80
1	O	189	ASN	N-CA-C	-8.15	102.34	111.14
1	Q	167	GLU	CA-C-N	8.15	131.55	121.85
1	Q	167	GLU	C-N-CA	8.15	131.55	121.85
1	N	307	GLU	CA-C-N	8.14	133.06	121.42
1	N	307	GLU	C-N-CA	8.14	133.06	121.42
1	N	288	GLY	CA-C-N	8.13	130.00	119.84
1	N	288	GLY	C-N-CA	8.13	130.00	119.84
1	P	217	PRO	N-CA-C	-8.12	95.73	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	270	LEU	N-CA-C	8.12	122.15	111.75
1	P	168	VAL	CA-C-N	8.12	125.36	120.24
1	P	168	VAL	C-N-CA	8.12	125.36	120.24
1	L	181	PRO	N-CA-C	-8.10	102.95	113.57
1	F	162	LYS	CA-C-N	8.07	132.93	120.82
1	F	162	LYS	C-N-CA	8.07	132.93	120.82
1	M	310	SER	CA-C-N	8.07	131.09	120.28
1	M	310	SER	C-N-CA	8.07	131.09	120.28
1	N	177	GLU	N-CA-C	-8.05	93.66	110.80
1	K	168	VAL	CA-C-O	8.04	125.97	118.90
1	H	266	ILE	CA-C-O	8.03	129.68	121.17
1	E	314	LYS	CA-C-N	-8.03	109.53	120.44
1	E	314	LYS	C-N-CA	-8.03	109.53	120.44
1	E	327	ASN	N-CA-C	-8.02	98.53	110.24
1	B	162	LYS	CA-C-N	8.01	136.84	121.54
1	B	162	LYS	C-N-CA	8.01	136.84	121.54
1	I	198	MET	N-CA-C	8.01	120.01	111.28
1	J	177	GLU	CA-C-N	8.01	131.97	120.91
1	J	177	GLU	C-N-CA	8.01	131.97	120.91
1	K	265	TRP	CA-C-O	8.01	129.23	120.82
1	N	270	LEU	CA-C-O	8.01	129.28	120.63
1	J	333	ILE	N-CA-C	-8.00	102.64	110.72
1	B	321	LEU	N-CA-C	-7.99	104.05	113.88
1	O	197	ALA	N-CA-C	7.99	119.90	111.03
1	A	168	VAL	CA-C-O	7.99	126.00	119.29
1	I	278	SER	N-CA-C	-7.98	92.17	109.81
1	E	270	LEU	N-CA-C	7.97	121.95	111.75
1	C	261	ILE	CA-C-N	7.97	130.96	120.28
1	C	261	ILE	C-N-CA	7.97	130.96	120.28
1	F	194	HIS	CA-C-N	7.96	130.95	120.28
1	F	194	HIS	C-N-CA	7.96	130.95	120.28
1	O	206	ASN	N-CA-C	7.96	119.96	111.28
1	O	228	MET	CA-C-N	7.96	136.75	121.54
1	O	228	MET	C-N-CA	7.96	136.75	121.54
1	F	167	GLU	CA-C-N	7.96	130.84	121.84
1	F	167	GLU	C-N-CA	7.96	130.84	121.84
1	E	327	ASN	CA-C-N	7.95	127.88	119.05
1	E	327	ASN	C-N-CA	7.95	127.88	119.05
1	J	258	VAL	N-CA-C	7.95	118.01	110.30
1	H	327	ASN	N-CA-C	-7.95	99.71	110.36
1	G	321	LEU	N-CA-C	-7.94	104.11	113.88
1	I	238	GLY	N-CA-C	-7.94	105.25	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	334	LEU	N-CA-C	7.93	119.93	111.28
1	M	316	TRP	CA-C-O	7.93	128.83	120.42
1	M	271	ASN	CA-C-O	7.92	128.86	120.70
1	I	182	GLN	N-CA-C	7.92	121.00	111.82
1	I	183	ASP	N-CA-C	-7.88	102.00	111.69
1	R	204	THR	CA-C-N	7.87	130.47	120.56
1	R	204	THR	C-N-CA	7.87	130.47	120.56
1	A	309	ALA	N-CA-C	7.86	127.53	110.80
1	B	233	GLY	CA-C-N	7.86	131.44	120.29
1	B	233	GLY	C-N-CA	7.86	131.44	120.29
1	D	340	GLY	N-CA-C	-7.85	99.98	110.74
1	B	159	VAL	O-C-N	-7.84	114.22	121.91
1	D	194	HIS	CA-C-N	7.84	130.79	120.28
1	D	194	HIS	C-N-CA	7.84	130.79	120.28
1	E	342	THR	N-CA-C	-7.83	100.19	110.53
1	K	321	LEU	N-CA-C	-7.83	103.95	113.97
1	E	183	ASP	N-CA-C	-7.82	102.08	111.69
1	M	288	GLY	CA-C-N	7.82	127.37	119.24
1	M	288	GLY	C-N-CA	7.82	127.37	119.24
1	P	294	ARG	CA-C-O	7.80	128.82	120.55
1	J	279	PRO	CA-C-N	7.80	136.99	123.03
1	J	279	PRO	C-N-CA	7.80	136.99	123.03
1	Q	168	VAL	CA-C-O	7.80	125.76	118.90
1	D	270	LEU	CA-C-O	7.79	129.04	120.63
1	N	166	PRO	N-CA-C	7.77	123.52	114.20
1	L	218	VAL	CA-C-N	7.75	135.07	120.97
1	L	218	VAL	C-N-CA	7.75	135.07	120.97
1	M	309	ALA	N-CA-C	7.73	120.07	108.31
1	R	252	HIS	N-CA-C	-7.73	96.69	108.67
1	I	287	GLN	N-CA-C	7.72	121.67	109.39
1	C	315	ASN	N-CA-C	7.72	119.47	111.14
1	G	238	GLY	N-CA-C	-7.71	104.77	113.79
1	R	262	TYR	N-CA-C	-7.71	102.87	111.28
1	F	325	ASN	N-CA-C	-7.71	103.85	113.18
1	L	292	PRO	N-CA-C	7.71	123.33	111.15
1	G	195	GLN	N-CA-C	7.70	119.68	111.28
1	E	310	SER	CA-C-N	7.70	130.60	120.28
1	E	310	SER	C-N-CA	7.70	130.60	120.28
1	F	168	VAL	CA-C-O	7.69	125.75	119.29
1	Q	308	GLN	N-CA-C	7.67	121.39	108.90
1	A	315	ASN	N-CA-C	7.66	119.41	111.14
1	M	238	GLY	N-CA-C	-7.66	105.58	114.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	342	THR	N-CA-C	-7.65	100.43	110.53
1	H	278	SER	N-CA-C	7.64	114.87	108.07
1	N	212	TRP	CA-C-N	7.63	131.27	120.28
1	N	212	TRP	C-N-CA	7.63	131.27	120.28
1	G	279	PRO	CA-C-N	7.62	136.09	121.54
1	G	279	PRO	C-N-CA	7.62	136.09	121.54
1	K	232	ARG	CA-C-N	7.62	128.56	120.03
1	K	232	ARG	C-N-CA	7.62	128.56	120.03
1	K	311	GLN	N-CA-C	7.62	119.66	111.36
1	B	232	ARG	N-CA-C	-7.61	97.80	109.14
1	K	272	LYS	N-CA-C	-7.60	103.00	111.82
1	A	166	PRO	CA-C-N	7.59	136.04	121.54
1	A	166	PRO	C-N-CA	7.59	136.04	121.54
1	J	194	HIS	CA-C-N	7.58	130.77	120.38
1	J	194	HIS	C-N-CA	7.58	130.77	120.38
1	C	248	GLY	N-CA-C	-7.58	103.70	112.50
1	M	194	HIS	CA-C-N	7.56	130.42	120.28
1	M	194	HIS	C-N-CA	7.56	130.42	120.28
1	B	265	TRP	CA-C-O	7.56	128.76	120.82
1	B	298	ASP	CA-C-N	7.56	130.41	120.28
1	B	298	ASP	C-N-CA	7.56	130.41	120.28
1	F	342	THR	N-CA-C	-7.55	99.11	110.28
1	I	306	ALA	N-CA-C	7.55	122.25	112.89
1	E	320	THR	N-CA-C	-7.53	104.09	113.28
1	L	165	SER	N-CA-C	7.53	124.20	108.39
1	G	265	TRP	CA-C-O	7.53	128.73	120.82
1	R	343	LEU	N-CA-C	7.52	120.43	111.33
1	J	288	GLY	N-CA-C	-7.51	97.02	112.34
1	L	234	SER	CA-C-N	7.50	130.18	120.44
1	L	234	SER	C-N-CA	7.50	130.18	120.44
1	H	183	ASP	N-CA-C	-7.49	102.26	111.40
1	I	310	SER	CA-C-N	7.49	130.31	120.28
1	I	310	SER	C-N-CA	7.49	130.31	120.28
1	R	146	ALA	N-CA-C	7.49	118.49	108.38
1	P	249	TRP	N-CA-C	7.49	119.44	111.28
1	I	316	TRP	CA-C-O	7.47	128.34	120.42
1	A	159	VAL	CA-C-O	7.45	129.06	121.17
1	J	262	TYR	N-CA-C	-7.43	103.18	111.28
1	K	194	HIS	CA-C-N	7.43	130.24	120.28
1	K	194	HIS	C-N-CA	7.43	130.24	120.28
1	J	252	HIS	N-CA-C	-7.42	97.59	109.76
1	J	327	ASN	CA-C-N	7.41	127.28	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	327	ASN	C-N-CA	7.41	127.28	119.05
1	Q	316	TRP	CA-C-O	7.39	128.26	120.42
1	D	307	GLU	CA-C-N	7.39	135.65	121.54
1	D	307	GLU	C-N-CA	7.39	135.65	121.54
1	E	315	ASN	CA-C-N	-7.38	109.81	120.29
1	E	315	ASN	C-N-CA	-7.38	109.81	120.29
1	I	246	GLN	N-CA-C	-7.38	102.93	110.97
1	N	167	GLU	CA-C-N	7.37	130.62	121.85
1	N	167	GLU	C-N-CA	7.37	130.62	121.85
1	C	257	PRO	CA-C-N	7.37	129.91	120.70
1	C	257	PRO	C-N-CA	7.37	129.91	120.70
1	H	344	GLU	N-CA-C	7.37	119.39	111.36
1	H	294	ARG	CA-C-O	7.37	128.55	120.82
1	B	167	GLU	CA-C-N	7.36	130.61	121.85
1	B	167	GLU	C-N-CA	7.36	130.61	121.85
1	G	347	MET	CA-C-N	7.35	130.72	120.29
1	G	347	MET	C-N-CA	7.35	130.72	120.29
1	D	227	GLN	CA-C-N	7.35	135.57	121.54
1	D	227	GLN	C-N-CA	7.35	135.57	121.54
1	H	168	VAL	CA-C-O	7.34	125.36	118.90
1	E	159	VAL	O-C-N	-7.34	114.72	121.91
1	G	178	GLY	CA-C-N	7.34	135.56	121.54
1	G	178	GLY	C-N-CA	7.34	135.56	121.54
1	Q	279	PRO	CA-C-N	7.32	135.53	121.54
1	Q	279	PRO	C-N-CA	7.32	135.53	121.54
1	J	191	VAL	CA-C-N	7.32	129.44	120.51
1	J	191	VAL	C-N-CA	7.32	129.44	120.51
1	Q	315	ASN	CA-C-N	-7.31	109.91	120.29
1	Q	315	ASN	C-N-CA	-7.31	109.91	120.29
1	R	147	ILE	N-CA-C	7.31	124.55	109.34
1	K	238	GLY	N-CA-C	-7.29	105.26	113.79
1	M	320	THR	N-CA-C	-7.29	104.53	113.50
1	L	292	PRO	CA-C-N	7.29	130.04	120.28
1	L	292	PRO	C-N-CA	7.29	130.04	120.28
1	E	265	TRP	CA-C-O	7.28	128.47	120.82
1	I	278	SER	CA-C-N	7.28	128.94	119.84
1	I	278	SER	C-N-CA	7.28	128.94	119.84
1	D	251	THR	N-CA-C	-7.28	104.42	112.72
1	N	345	GLU	N-CA-C	7.28	119.22	111.28
1	P	288	GLY	CA-C-N	7.28	128.93	119.84
1	P	288	GLY	C-N-CA	7.28	128.93	119.84
1	J	311	GLN	CA-C-N	7.27	130.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	311	GLN	C-N-CA	7.27	130.02	120.28
1	N	307	GLU	N-CA-C	7.27	121.13	110.59
1	C	313	VAL	O-C-N	7.26	129.02	121.91
1	L	265	TRP	CA-C-O	7.25	128.44	120.82
1	P	279	PRO	CA-C-N	7.25	133.63	122.11
1	P	279	PRO	C-N-CA	7.25	133.63	122.11
1	R	265	TRP	CA-C-O	7.25	128.23	120.55
1	F	248	GLY	N-CA-C	-7.22	104.12	112.50
1	Q	342	THR	CA-C-N	7.22	129.95	120.28
1	Q	342	THR	C-N-CA	7.22	129.95	120.28
1	N	185	ASN	N-CA-C	-7.21	103.42	111.28
1	E	321	LEU	N-CA-C	-7.20	104.76	113.97
1	G	278	SER	CA-C-N	7.20	128.83	119.84
1	G	278	SER	C-N-CA	7.20	128.83	119.84
1	P	146	ALA	CA-C-N	7.19	134.91	121.97
1	P	146	ALA	C-N-CA	7.19	134.91	121.97
1	N	206	ASN	N-CA-C	7.18	119.11	111.28
1	F	265	TRP	CA-C-O	7.17	128.35	120.82
1	R	253	ASN	N-CA-C	-7.17	93.01	108.93
1	B	315	ASN	CA-C-N	-7.17	110.11	120.29
1	B	315	ASN	C-N-CA	-7.17	110.11	120.29
1	E	166	PRO	N-CA-C	7.17	127.23	112.47
1	H	347	MET	N-CA-C	7.16	119.16	111.36
1	M	243	LEU	N-CA-C	7.16	118.73	111.07
1	M	270	LEU	N-CA-C	7.16	119.99	111.33
1	I	232	ARG	CA-C-N	7.16	128.04	120.03
1	I	232	ARG	C-N-CA	7.16	128.04	120.03
1	R	333	ILE	N-CA-C	-7.15	103.50	110.72
1	J	189	ASN	N-CA-C	-7.15	103.42	111.14
1	O	281	SER	CA-C-O	7.15	129.34	120.54
1	D	283	LEU	CA-C-N	7.15	135.35	122.06
1	D	283	LEU	C-N-CA	7.15	135.35	122.06
1	I	265	TRP	CA-C-O	7.15	128.12	120.55
1	H	248	GLY	CA-C-N	7.14	129.85	120.28
1	H	248	GLY	C-N-CA	7.14	129.85	120.28
1	H	311	GLN	N-CA-C	7.14	119.06	111.28
1	K	183	ASP	N-CA-C	-7.14	102.69	111.40
1	C	252	HIS	N-CA-C	-7.14	100.92	110.55
1	A	252	HIS	N-CA-C	-7.13	99.93	110.48
1	O	207	GLU	CA-C-N	7.12	130.41	120.29
1	O	207	GLU	C-N-CA	7.12	130.41	120.29
1	N	252	HIS	N-CA-C	-7.12	99.67	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	167	GLU	N-CA-C	-7.11	98.51	108.54
1	I	167	GLU	CA-C-N	7.11	129.87	121.84
1	I	167	GLU	C-N-CA	7.11	129.87	121.84
1	N	184	LEU	CA-C-N	7.11	129.80	120.28
1	N	184	LEU	C-N-CA	7.11	129.80	120.28
1	K	307	GLU	N-CA-C	7.09	119.68	110.53
1	I	342	THR	CA-C-N	7.09	130.09	120.38
1	I	342	THR	C-N-CA	7.09	130.09	120.38
1	N	308	GLN	N-CA-C	7.08	121.39	110.20
1	L	162	LYS	CA-C-N	7.06	131.40	120.82
1	L	162	LYS	C-N-CA	7.06	131.40	120.82
1	P	326	ALA	N-CA-C	-7.05	99.54	109.69
1	G	189	ASN	N-CA-C	-7.04	103.54	111.14
1	F	348	THR	N-CA-C	-7.04	103.69	111.36
1	G	313	VAL	CA-C-O	7.04	128.27	120.95
1	H	150	ARG	N-CA-C	-7.04	103.61	111.28
1	B	315	ASN	N-CA-C	7.03	118.73	111.14
1	O	307	GLU	N-CA-C	7.03	120.92	110.52
1	G	232	ARG	CA-C-N	7.03	127.90	120.03
1	G	232	ARG	C-N-CA	7.03	127.90	120.03
1	R	194	HIS	CA-C-N	7.02	130.00	120.38
1	R	194	HIS	C-N-CA	7.02	130.00	120.38
1	P	252	HIS	N-CA-C	-7.02	99.54	110.42
1	E	343	LEU	N-CA-C	7.02	118.93	111.28
1	F	329	ASP	N-CA-C	-6.99	103.74	111.36
1	O	144	HIS	N-CA-C	-6.99	98.46	109.50
1	D	282	ILE	N-CA-C	6.99	119.78	111.05
1	A	293	PHE	N-CA-C	6.98	118.89	111.28
1	C	153	ASN	N-CA-C	-6.98	103.67	111.28
1	P	262	TYR	N-CA-C	-6.97	103.68	111.28
1	Q	189	ASN	N-CA-C	-6.97	103.61	111.14
1	J	146	ALA	N-CA-C	6.96	118.35	108.74
1	L	292	PRO	CA-C-O	6.96	129.22	121.36
1	I	288	GLY	CA-C-N	6.95	128.53	119.84
1	I	288	GLY	C-N-CA	6.95	128.53	119.84
1	M	150	ARG	N-CA-C	-6.95	103.70	111.28
1	O	233	GLY	CA-C-N	6.95	129.59	120.28
1	O	233	GLY	C-N-CA	6.95	129.59	120.28
1	O	295	ASP	CA-C-N	6.95	129.59	120.28
1	O	295	ASP	C-N-CA	6.95	129.59	120.28
1	R	261	ILE	CA-C-N	6.94	129.59	120.28
1	R	261	ILE	C-N-CA	6.94	129.59	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	261	ILE	CA-C-N	6.94	129.58	120.28
1	E	261	ILE	C-N-CA	6.94	129.58	120.28
1	H	265	TRP	CA-C-O	6.94	127.91	120.55
1	B	271	ASN	CA-C-O	6.92	128.09	120.82
1	F	315	ASN	N-CA-C	6.92	118.61	111.14
1	Q	150	ARG	N-CA-C	-6.92	103.74	111.28
1	A	338	GLY	N-CA-C	-6.92	98.23	112.34
1	D	351	GLN	N-CA-C	-6.92	91.64	111.00
1	N	162	LYS	CA-C-N	6.91	131.19	120.82
1	N	162	LYS	C-N-CA	6.91	131.19	120.82
1	L	247	ILE	CA-C-N	6.91	127.61	119.94
1	L	247	ILE	C-N-CA	6.91	127.61	119.94
1	Q	250	MET	N-CA-C	6.90	118.59	111.14
1	N	270	LEU	CA-C-N	6.90	129.82	120.44
1	N	270	LEU	C-N-CA	6.90	129.82	120.44
1	J	165	SER	CA-C-N	6.89	128.46	119.84
1	J	165	SER	C-N-CA	6.89	128.46	119.84
1	J	288	GLY	CA-C-N	6.89	128.46	119.84
1	J	288	GLY	C-N-CA	6.89	128.46	119.84
1	G	176	SER	CA-C-N	6.88	130.52	120.82
1	G	176	SER	C-N-CA	6.88	130.52	120.82
1	H	168	VAL	N-CA-C	-6.88	105.37	113.42
1	N	292	PRO	CA-C-O	6.88	129.13	121.36
1	J	292	PRO	N-CA-C	6.87	121.61	111.03
1	M	272	LYS	N-CA-C	-6.87	103.85	111.82
1	P	261	ILE	CA-C-N	6.87	129.48	120.28
1	P	261	ILE	C-N-CA	6.87	129.48	120.28
1	L	327	ASN	CA-C-O	-6.87	113.57	120.64
1	R	327	ASN	N-CA-C	-6.87	100.09	110.39
1	D	191	VAL	CA-C-N	6.86	127.44	122.16
1	D	191	VAL	C-N-CA	6.86	127.44	122.16
1	O	320	THR	N-CA-C	-6.86	104.72	113.23
1	B	182	GLN	CA-C-N	6.86	132.16	120.71
1	B	182	GLN	C-N-CA	6.86	132.16	120.71
1	P	185	ASN	N-CA-C	-6.85	103.81	111.28
1	E	168	VAL	N-CA-C	-6.84	106.11	112.96
1	O	232	ARG	CA-C-N	6.84	127.69	120.03
1	O	232	ARG	C-N-CA	6.84	127.69	120.03
1	D	289	PRO	N-CA-C	-6.84	98.39	112.47
1	I	321	LEU	N-CA-C	-6.83	105.22	113.97
1	C	155	TRP	CA-C-N	6.83	130.16	120.53
1	C	155	TRP	C-N-CA	6.83	130.16	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	318	THR	N-CA-C	-6.83	103.76	111.07
1	C	168	VAL	CA-C-O	6.82	124.90	118.90
1	A	270	LEU	CA-C-O	6.82	127.83	120.20
1	L	261	ILE	CA-C-O	6.82	128.40	121.17
1	O	265	TRP	CA-C-O	6.82	127.98	120.82
1	D	169	ILE	O-C-N	-6.80	116.07	120.42
1	G	310	SER	CA-C-N	6.80	129.39	120.28
1	G	310	SER	C-N-CA	6.80	129.39	120.28
1	I	261	ILE	CA-C-O	6.79	128.05	120.85
1	G	327	ASN	N-CA-C	-6.78	101.10	109.65
1	A	331	LYS	N-CA-C	-6.78	103.12	111.33
1	F	320	THR	N-CA-C	-6.78	105.01	113.28
1	K	341	ALA	CA-C-N	6.78	134.49	121.54
1	K	341	ALA	C-N-CA	6.78	134.49	121.54
1	G	300	PHE	O-C-N	-6.77	115.09	122.07
1	A	266	ILE	CA-C-O	6.76	128.34	121.17
1	P	343	LEU	N-CA-C	6.76	119.51	111.33
1	Q	294	ARG	N-CA-C	-6.76	103.83	111.07
1	E	270	LEU	CA-C-O	6.76	127.77	120.20
1	M	174	ALA	N-CA-C	-6.75	104.00	111.36
1	H	147	ILE	N-CA-C	6.75	123.37	109.34
1	G	307	GLU	N-CA-C	6.74	121.03	110.32
1	L	184	LEU	CA-C-N	6.74	129.31	120.28
1	L	184	LEU	C-N-CA	6.74	129.31	120.28
1	R	146	ALA	CA-C-N	6.72	134.06	121.97
1	R	146	ALA	C-N-CA	6.72	134.06	121.97
1	A	283	LEU	CA-C-N	6.71	134.54	122.06
1	A	283	LEU	C-N-CA	6.71	134.54	122.06
1	H	347	MET	CA-C-N	6.71	130.51	120.31
1	H	347	MET	C-N-CA	6.71	130.51	120.31
1	K	327	ASN	CA-C-N	6.71	126.97	119.32
1	K	327	ASN	C-N-CA	6.71	126.97	119.32
1	B	219	HIS	N-CA-C	-6.71	104.72	113.17
1	R	327	ASN	CA-C-N	6.70	126.49	119.05
1	R	327	ASN	C-N-CA	6.70	126.49	119.05
1	O	316	TRP	CA-C-O	6.70	127.52	120.42
1	O	342	THR	CA-C-N	6.69	129.25	120.28
1	O	342	THR	C-N-CA	6.69	129.25	120.28
1	Q	278	SER	CA-C-N	6.69	128.20	119.84
1	Q	278	SER	C-N-CA	6.69	128.20	119.84
1	C	315	ASN	CA-C-N	-6.69	110.80	120.29
1	C	315	ASN	C-N-CA	-6.69	110.80	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	189	ASN	N-CA-C	-6.68	103.92	111.14
1	K	245	GLU	CA-C-N	6.68	129.47	120.65
1	K	245	GLU	C-N-CA	6.68	129.47	120.65
1	I	242	THR	N-CA-C	-6.68	101.91	110.53
1	K	246	GLN	N-CA-C	-6.68	103.69	110.97
1	N	309	ALA	N-CA-C	6.67	125.01	110.80
1	J	287	GLN	N-CA-C	-6.66	100.62	110.48
1	G	277	TYR	N-CA-C	-6.66	99.69	110.20
1	L	333	ILE	N-CA-C	-6.66	104.27	110.53
1	P	290	LYS	N-CA-C	-6.65	103.28	111.40
1	F	200	MET	CA-C-O	6.65	127.60	120.55
1	I	189	ASN	N-CA-C	-6.65	103.96	111.14
1	B	297	VAL	O-C-N	-6.65	114.98	121.83
1	C	327	ASN	CA-C-O	-6.64	113.45	120.88
1	B	313	VAL	O-C-N	6.63	128.31	121.87
1	A	272	LYS	N-CA-C	-6.63	104.13	111.36
1	F	247	ILE	CA-C-N	6.62	127.29	119.94
1	F	247	ILE	C-N-CA	6.62	127.29	119.94
1	M	327	ASN	CA-C-O	-6.62	113.20	120.69
1	B	228	MET	CA-C-N	6.62	134.19	121.54
1	B	228	MET	C-N-CA	6.62	134.19	121.54
1	D	267	ILE	N-CA-C	-6.61	103.88	110.62
1	M	177	GLU	CA-C-N	6.61	134.36	121.41
1	M	177	GLU	C-N-CA	6.61	134.36	121.41
1	O	338	GLY	CA-C-N	6.60	128.09	119.84
1	O	338	GLY	C-N-CA	6.60	128.09	119.84
1	P	250	MET	N-CA-C	6.60	118.26	111.14
1	P	273	ILE	CA-C-N	6.58	129.48	120.46
1	P	273	ILE	C-N-CA	6.58	129.48	120.46
1	C	346	MET	CA-C-N	6.58	129.09	120.28
1	C	346	MET	C-N-CA	6.58	129.09	120.28
1	A	251	THR	N-CA-C	-6.58	105.22	112.72
1	R	301	ALA	O-C-N	-6.57	115.16	122.12
1	A	233	GLY	CA-C-N	6.57	129.37	120.44
1	A	233	GLY	C-N-CA	6.57	129.37	120.44
1	G	315	ASN	N-CA-C	6.56	118.44	111.28
1	B	333	ILE	N-CA-C	-6.56	104.10	110.72
1	O	157	LYS	CA-C-N	-6.56	112.16	120.56
1	O	157	LYS	C-N-CA	-6.56	112.16	120.56
1	R	270	LEU	CA-C-O	6.56	127.71	120.63
1	G	213	ASP	N-CA-C	6.56	118.43	111.28
1	J	177	GLU	N-CA-C	-6.55	104.86	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	327	ASN	CA-C-N	6.55	126.32	119.05
1	N	327	ASN	C-N-CA	6.55	126.32	119.05
1	M	244	GLN	CA-C-N	6.54	129.70	120.28
1	M	244	GLN	C-N-CA	6.54	129.70	120.28
1	D	183	ASP	N-CA-C	-6.53	103.43	111.40
1	E	315	ASN	N-CA-C	6.53	118.19	111.14
1	H	294	ARG	CA-C-N	6.53	129.56	120.29
1	H	294	ARG	C-N-CA	6.53	129.56	120.29
1	C	157	LYS	CA-C-N	-6.53	112.20	120.56
1	C	157	LYS	C-N-CA	-6.53	112.20	120.56
1	R	154	ALA	CA-C-O	6.53	127.67	120.82
1	C	331	LYS	N-CA-C	-6.53	104.17	111.28
1	F	153	ASN	N-CA-C	-6.53	104.17	111.28
1	D	266	ILE	CA-C-O	6.52	128.08	121.17
1	J	285	ILE	N-CA-C	-6.52	97.09	106.55
1	M	339	PRO	N-CA-C	6.52	125.91	112.47
1	K	278	SER	N-CA-C	-6.52	101.31	110.31
1	R	261	ILE	CA-C-O	6.52	127.76	120.85
1	F	315	ASN	CA-C-N	-6.51	111.04	120.29
1	F	315	ASN	C-N-CA	-6.51	111.04	120.29
1	C	216	HIS	O-C-N	6.51	126.48	121.27
1	M	307	GLU	CA-C-N	6.51	129.95	120.71
1	M	307	GLU	C-N-CA	6.51	129.95	120.71
1	R	270	LEU	CA-C-N	6.51	128.90	120.44
1	R	270	LEU	C-N-CA	6.51	128.90	120.44
1	N	161	GLU	CA-C-O	-6.50	114.00	120.70
1	Q	342	THR	N-CA-C	-6.49	100.22	109.96
1	G	320	THR	N-CA-C	-6.49	105.18	113.23
1	O	153	ASN	N-CA-C	-6.49	104.21	111.28
1	E	206	ASN	N-CA-C	6.48	118.34	111.28
1	J	167	GLU	N-CA-C	6.48	124.61	110.80
1	P	219	HIS	N-CA-C	-6.48	104.62	113.30
1	L	185	ASN	N-CA-C	-6.48	104.22	111.28
1	A	327	ASN	CA-C-N	6.47	126.23	119.05
1	A	327	ASN	C-N-CA	6.47	126.23	119.05
1	P	230	GLU	N-CA-C	6.46	117.52	109.57
1	I	150	ARG	N-CA-C	-6.46	104.24	111.28
1	B	183	ASP	N-CA-C	-6.46	103.52	111.40
1	C	216	HIS	CA-C-N	6.46	127.91	119.84
1	C	216	HIS	C-N-CA	6.46	127.91	119.84
1	F	270	LEU	N-CA-C	6.45	119.14	111.33
1	F	262	TYR	N-CA-C	-6.45	104.25	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	212	TRP	N-CA-C	-6.45	103.94	110.97
1	N	248	GLY	N-CA-C	-6.44	105.03	112.50
1	K	320	THR	N-CA-C	-6.43	105.43	113.28
1	L	258	VAL	N-CA-C	6.43	116.54	110.30
1	L	300	PHE	N-CA-C	-6.43	104.27	111.28
1	P	147	ILE	N-CA-C	6.43	122.71	109.34
1	H	266	ILE	CA-C-N	6.42	129.26	120.46
1	H	266	ILE	C-N-CA	6.42	129.26	120.46
1	L	195	GLN	N-CA-C	6.42	118.27	111.28
1	N	267	ILE	N-CA-C	-6.42	104.08	110.62
1	G	271	ASN	CA-C-O	6.41	127.34	120.55
1	A	308	GLN	CA-C-N	6.41	133.77	121.54
1	A	308	GLN	C-N-CA	6.41	133.77	121.54
1	N	334	LEU	N-CA-C	6.41	118.26	111.28
1	N	230	GLU	CA-C-N	6.40	127.84	119.84
1	N	230	GLU	C-N-CA	6.40	127.84	119.84
1	L	224	ALA	N-CA-C	-6.39	102.38	108.07
1	Q	314	LYS	CA-C-N	-6.39	111.74	120.44
1	Q	314	LYS	C-N-CA	-6.39	111.74	120.44
1	B	327	ASN	CA-C-O	-6.38	113.74	120.70
1	G	253	ASN	N-CA-C	-6.38	100.36	109.62
1	L	171	MET	CA-C-N	-6.38	111.23	120.29
1	L	171	MET	C-N-CA	-6.38	111.23	120.29
1	R	307	GLU	N-CA-C	6.38	119.01	108.99
1	L	288	GLY	CA-C-N	6.38	127.81	119.84
1	L	288	GLY	C-N-CA	6.38	127.81	119.84
1	A	243	LEU	N-CA-C	6.38	117.89	111.07
1	R	275	ARG	N-CA-C	6.37	120.16	112.38
1	R	307	GLU	CA-C-N	6.37	133.05	122.73
1	R	307	GLU	C-N-CA	6.37	133.05	122.73
1	K	146	ALA	N-CA-C	6.37	124.37	110.80
1	L	146	ALA	CA-C-N	6.37	133.43	121.97
1	L	146	ALA	C-N-CA	6.37	133.43	121.97
1	M	251	THR	N-CA-C	-6.37	105.46	112.72
1	K	150	ARG	N-CA-C	-6.36	104.34	111.28
1	L	334	LEU	O-C-N	-6.36	115.38	122.12
1	J	165	SER	O-C-N	-6.36	116.87	121.83
1	B	260	GLU	N-CA-C	6.36	118.21	111.28
1	L	337	LEU	CA-C-N	6.35	131.84	121.87
1	L	337	LEU	C-N-CA	6.35	131.84	121.87
1	N	149	PRO	N-CA-C	-6.35	105.92	113.86
1	D	272	LYS	N-CA-C	-6.35	104.45	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	145	GLN	N-CA-C	-6.35	99.39	109.23
1	Q	168	VAL	N-CA-C	-6.35	105.99	113.42
1	O	296	TYR	N-CA-C	-6.35	104.36	111.28
1	P	307	GLU	CA-C-N	6.35	133.66	121.54
1	P	307	GLU	C-N-CA	6.35	133.66	121.54
1	K	327	ASN	CA-C-O	-6.34	113.08	119.24
1	R	150	ARG	N-CA-C	-6.34	104.37	111.28
1	J	261	ILE	CA-C-O	6.34	127.89	121.17
1	D	262	TYR	N-CA-C	-6.33	104.38	111.28
1	A	143	VAL	CA-C-N	6.33	133.64	121.54
1	A	143	VAL	C-N-CA	6.33	133.64	121.54
1	P	301	ALA	O-C-N	-6.33	115.41	122.12
1	K	287	GLN	N-CA-C	6.33	119.89	110.52
1	E	250	MET	N-CA-C	6.33	118.26	111.36
1	A	262	TYR	N-CA-C	-6.33	104.38	111.28
1	D	282	ILE	O-C-N	-6.33	115.48	121.87
1	O	310	SER	CA-C-N	6.33	128.76	120.28
1	O	310	SER	C-N-CA	6.33	128.76	120.28
1	R	167	GLU	CA-C-N	6.33	129.38	121.85
1	R	167	GLU	C-N-CA	6.33	129.38	121.85
1	G	182	GLN	N-CA-C	6.32	119.16	111.82
1	P	311	GLN	CA-C-N	6.32	128.75	120.28
1	P	311	GLN	C-N-CA	6.32	128.75	120.28
1	A	224	ALA	N-CA-C	-6.31	100.79	110.32
1	C	155	TRP	CA-C-O	6.31	127.45	120.82
1	R	322	LEU	N-CA-C	-6.31	104.32	111.07
1	P	183	ASP	N-CA-C	-6.30	103.71	111.40
1	L	262	TYR	N-CA-C	-6.30	104.41	111.28
1	N	266	ILE	CA-C-N	6.30	129.09	120.46
1	N	266	ILE	C-N-CA	6.30	129.09	120.46
1	E	313	VAL	CA-C-N	6.30	128.72	120.28
1	E	313	VAL	C-N-CA	6.30	128.72	120.28
1	G	168	VAL	N-CA-C	-6.30	106.66	112.96
1	H	212	TRP	N-CA-C	-6.29	104.11	110.97
1	R	161	GLU	CA-C-O	-6.29	114.22	120.70
1	G	204	THR	CA-C-N	-6.29	112.51	120.56
1	G	204	THR	C-N-CA	-6.29	112.51	120.56
1	N	292	PRO	N-CA-C	6.29	121.08	111.15
1	G	309	ALA	N-CA-C	6.28	118.70	108.08
1	M	299	ARG	CA-C-O	6.28	127.20	120.55
1	F	165	SER	CA-C-N	6.28	127.68	119.84
1	F	165	SER	C-N-CA	6.28	127.68	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	311	GLN	N-CA-C	6.26	118.19	111.36
1	F	310	SER	CA-C-O	6.26	127.21	120.95
1	Q	347	MET	CA-C-N	6.26	129.18	120.29
1	Q	347	MET	C-N-CA	6.26	129.18	120.29
1	P	299	ARG	CA-C-N	6.26	128.67	120.28
1	P	299	ARG	C-N-CA	6.26	128.67	120.28
1	F	333	ILE	N-CA-C	-6.25	104.24	110.62
1	O	278	SER	N-CA-C	-6.25	96.00	109.81
1	N	168	VAL	CA-C-O	6.25	124.40	118.90
1	F	159	VAL	O-C-N	-6.25	115.81	121.87
1	P	265	TRP	CA-C-O	6.25	127.38	120.82
1	I	262	TYR	N-CA-C	-6.24	104.48	111.28
1	E	330	CYS	CA-C-N	6.23	128.63	120.28
1	E	330	CYS	C-N-CA	6.23	128.63	120.28
1	R	200	MET	N-CA-C	6.23	118.07	111.28
1	P	242	THR	N-CA-C	-6.23	99.68	108.96
1	N	287	GLN	CA-C-N	6.22	131.64	121.87
1	N	287	GLN	C-N-CA	6.22	131.64	121.87
1	A	351	GLN	N-CA-C	-6.22	93.58	111.00
1	R	161	GLU	N-CA-C	-6.21	104.43	111.14
1	H	271	ASN	CA-C-O	6.21	127.34	120.82
1	J	195	GLN	N-CA-C	6.21	118.84	111.33
1	P	146	ALA	N-CA-C	6.20	116.75	108.38
1	D	313	VAL	O-C-N	6.20	127.89	121.87
1	R	272	LYS	CA-C-N	-6.20	112.75	120.56
1	R	272	LYS	C-N-CA	-6.20	112.75	120.56
1	M	278	SER	CA-C-N	6.19	127.58	119.84
1	M	278	SER	C-N-CA	6.19	127.58	119.84
1	D	342	THR	N-CA-C	-6.19	101.93	110.35
1	K	273	ILE	N-CA-C	-6.19	104.31	110.62
1	F	310	SER	CA-C-N	6.19	128.57	120.28
1	F	310	SER	C-N-CA	6.19	128.57	120.28
1	G	281	SER	N-CA-C	-6.18	100.12	109.95
1	C	330	CYS	CA-C-N	6.18	128.56	120.28
1	C	330	CYS	C-N-CA	6.18	128.56	120.28
1	D	159	VAL	O-C-N	-6.18	115.88	121.87
1	D	234	SER	CA-C-N	6.18	128.56	120.28
1	D	234	SER	C-N-CA	6.18	128.56	120.28
1	G	180	THR	CA-C-N	-6.17	112.12	118.85
1	G	180	THR	C-N-CA	-6.17	112.12	118.85
1	H	274	VAL	CA-C-N	-6.17	110.73	120.60
1	H	274	VAL	C-N-CA	-6.17	110.73	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	311	GLN	N-CA-C	6.17	117.80	111.14
1	O	169	ILE	CA-C-O	-6.16	111.69	119.95
1	D	338	GLY	N-CA-C	-6.16	99.78	112.34
1	O	339	PRO	N-CA-C	6.16	125.16	112.47
1	A	155	TRP	CA-C-O	6.15	127.28	120.82
1	H	268	LEU	O-C-N	-6.15	115.63	122.03
1	K	228	MET	CA-C-N	6.15	133.28	121.54
1	K	228	MET	C-N-CA	6.15	133.28	121.54
1	O	327	ASN	CA-C-N	6.15	126.33	119.32
1	O	327	ASN	C-N-CA	6.15	126.33	119.32
1	I	342	THR	N-CA-C	-6.14	97.69	108.20
1	P	266	ILE	CA-C-O	6.14	127.68	121.17
1	E	153	ASN	N-CA-C	-6.13	104.59	111.28
1	P	284	ASP	N-CA-C	-6.13	105.80	113.28
1	K	264	ARG	CA-C-N	6.13	128.41	120.44
1	K	264	ARG	C-N-CA	6.13	128.41	120.44
1	B	179	ALA	N-CA-C	6.13	123.85	110.80
1	P	160	GLU	CA-C-N	-6.12	110.48	120.71
1	P	160	GLU	C-N-CA	-6.12	110.48	120.71
1	C	321	LEU	N-CA-C	-6.12	106.13	113.97
1	E	281	SER	N-CA-C	6.12	118.16	108.79
1	B	261	ILE	CA-C-N	6.12	128.48	120.28
1	B	261	ILE	C-N-CA	6.12	128.48	120.28
1	B	248	GLY	N-CA-C	-6.11	105.41	112.50
1	B	146	ALA	N-CA-C	6.11	117.17	108.74
1	C	292	PRO	CA-C-O	6.11	129.64	122.13
1	G	307	GLU	CA-C-N	6.11	129.38	120.71
1	G	307	GLU	C-N-CA	6.11	129.38	120.71
1	L	290	LYS	N-CA-C	-6.11	104.90	112.90
1	R	329	ASP	CA-C-N	6.11	128.96	120.29
1	R	329	ASP	C-N-CA	6.11	128.96	120.29
1	P	223	ILE	N-CA-C	6.10	118.24	109.51
1	G	207	GLU	CA-C-N	6.10	128.46	120.28
1	G	207	GLU	C-N-CA	6.10	128.46	120.28
1	L	285	ILE	N-CA-C	-6.10	98.77	107.98
1	H	146	ALA	CA-C-N	6.10	132.94	121.97
1	H	146	ALA	C-N-CA	6.10	132.94	121.97
1	A	307	GLU	CA-C-N	6.09	133.18	121.54
1	A	307	GLU	C-N-CA	6.09	133.18	121.54
1	D	230	GLU	CA-C-N	6.09	127.45	119.84
1	D	230	GLU	C-N-CA	6.09	127.45	119.84
1	N	241	SER	N-CA-C	-6.09	99.14	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	182	GLN	CA-C-N	6.08	130.87	120.71
1	D	182	GLN	C-N-CA	6.08	130.87	120.71
1	G	200	MET	CA-C-O	6.08	127.00	120.55
1	M	338	GLY	CA-C-N	6.07	127.43	119.84
1	M	338	GLY	C-N-CA	6.07	127.43	119.84
1	E	242	THR	N-CA-C	-6.06	101.80	110.59
1	A	168	VAL	N-CA-C	-6.06	106.90	112.96
1	P	279	PRO	O-C-N	-6.06	114.46	122.64
1	D	185	ASN	N-CA-C	-6.05	104.69	111.28
1	E	200	MET	CA-C-O	6.05	126.96	120.55
1	K	274	VAL	CA-C-N	-6.05	110.92	120.60
1	K	274	VAL	C-N-CA	-6.05	110.92	120.60
1	L	163	ALA	N-CA-C	6.05	121.35	111.37
1	O	198	MET	N-CA-C	6.05	117.88	111.28
1	R	273	ILE	CA-C-N	-6.05	112.82	120.56
1	R	273	ILE	C-N-CA	-6.05	112.82	120.56
1	G	252	HIS	N-CA-C	-6.05	101.25	110.14
1	P	158	VAL	CA-C-O	6.05	127.24	120.95
1	L	311	GLN	CA-C-N	6.04	128.38	120.28
1	L	311	GLN	C-N-CA	6.04	128.38	120.28
1	N	208	GLU	N-CA-C	-6.04	104.70	111.28
1	R	240	THR	CA-C-O	6.04	126.74	119.43
1	H	167	GLU	CA-C-N	6.04	129.03	121.85
1	H	167	GLU	C-N-CA	6.04	129.03	121.85
1	H	314	LYS	N-CA-C	6.03	117.86	111.28
1	L	298	ASP	N-CA-C	6.03	117.86	111.28
1	O	205	ILE	CA-C-O	6.03	127.57	121.17
1	D	169	ILE	N-CA-C	6.03	119.59	112.35
1	C	266	ILE	CA-C-O	6.03	127.56	121.17
1	G	245	GLU	CA-C-N	6.03	128.61	120.65
1	G	245	GLU	C-N-CA	6.03	128.61	120.65
1	F	152	LEU	CA-C-N	6.03	128.35	120.28
1	F	152	LEU	C-N-CA	6.03	128.35	120.28
1	A	281	SER	CA-C-N	6.02	129.99	120.47
1	A	281	SER	C-N-CA	6.02	129.99	120.47
1	C	327	ASN	N-CA-C	-6.02	101.36	110.39
1	M	313	VAL	CA-C-O	6.02	127.23	120.85
1	O	194	HIS	CA-C-O	6.01	126.61	120.24
1	L	146	ALA	N-CA-C	6.00	116.35	107.88
1	H	166	PRO	N-CA-C	6.00	124.84	112.47
1	Q	298	ASP	CA-C-N	6.00	128.32	120.28
1	Q	298	ASP	C-N-CA	6.00	128.32	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	195	GLN	CA-C-O	6.00	126.91	120.55
1	N	301	ALA	O-C-N	-6.00	115.89	122.07
1	P	327	ASN	CA-C-N	6.00	126.16	119.32
1	P	327	ASN	C-N-CA	6.00	126.16	119.32
1	C	169	ILE	CA-C-O	-6.00	111.92	119.95
1	L	348	THR	N-CA-C	-5.99	104.83	111.36
1	E	161	GLU	N-CA-C	-5.99	104.09	111.40
1	H	338	GLY	CA-C-N	5.99	127.33	119.84
1	H	338	GLY	C-N-CA	5.99	127.33	119.84
1	B	270	LEU	CA-C-O	5.99	127.10	120.63
1	L	147	ILE	N-CA-C	5.99	121.80	109.34
1	K	170	PRO	N-CA-C	-5.99	105.73	113.57
1	I	238	GLY	CA-C-O	5.98	125.67	119.27
1	M	279	PRO	CA-C-N	5.98	132.97	121.54
1	M	279	PRO	C-N-CA	5.98	132.97	121.54
1	M	167	GLU	CA-C-N	5.98	128.59	121.84
1	M	167	GLU	C-N-CA	5.98	128.59	121.84
1	N	156	VAL	CA-C-O	5.97	127.26	121.05
1	E	260	GLU	N-CA-C	5.97	117.79	111.28
1	G	203	GLU	CA-C-N	5.97	128.28	120.28
1	G	203	GLU	C-N-CA	5.97	128.28	120.28
1	A	316	TRP	CA-C-O	5.97	126.75	120.42
1	E	333	ILE	N-CA-C	-5.96	104.54	110.62
1	F	261	ILE	CA-C-N	5.96	128.27	120.28
1	F	261	ILE	C-N-CA	5.96	128.27	120.28
1	M	169	ILE	O-C-N	-5.96	115.84	120.07
1	P	351	GLN	N-CA-C	5.96	127.68	111.00
1	R	238	GLY	N-CA-C	-5.96	106.73	115.72
1	I	227	GLN	CA-C-N	5.95	131.27	122.82
1	I	227	GLN	C-N-CA	5.95	131.27	122.82
1	N	146	ALA	N-CA-C	5.95	116.42	108.38
1	P	267	ILE	N-CA-C	-5.95	104.55	110.62
1	K	274	VAL	CA-C-O	-5.95	114.44	121.05
1	J	178	GLY	N-CA-C	-5.95	102.78	110.69
1	K	162	LYS	CA-C-N	5.95	129.74	120.82
1	K	162	LYS	C-N-CA	5.95	129.74	120.82
1	E	252	HIS	N-CA-C	-5.95	101.68	110.48
1	B	156	VAL	CA-C-N	5.94	128.24	120.28
1	B	156	VAL	C-N-CA	5.94	128.24	120.28
1	P	266	ILE	CA-C-N	5.94	128.60	120.46
1	P	266	ILE	C-N-CA	5.94	128.60	120.46
1	R	279	PRO	N-CA-C	-5.94	100.23	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	210	ALA	CA-C-N	5.94	128.24	120.28
1	G	210	ALA	C-N-CA	5.94	128.24	120.28
1	L	350	CYS	N-CA-C	5.94	120.66	113.17
1	E	200	MET	O-C-N	-5.94	115.83	122.12
1	J	348	THR	N-CA-C	-5.94	104.89	111.36
1	L	252	HIS	N-CA-C	-5.94	100.61	110.17
1	M	225	PRO	N-CA-C	5.93	124.69	112.47
1	B	256	ILE	N-CA-C	-5.93	96.07	108.88
1	D	275	ARG	O-C-N	-5.92	114.56	122.43
1	I	338	GLY	N-CA-C	-5.92	100.26	112.34
1	B	153	ASN	N-CA-C	-5.92	104.83	111.28
1	C	167	GLU	CA-C-N	5.91	128.88	121.85
1	C	167	GLU	C-N-CA	5.91	128.88	121.85
1	G	174	ALA	CA-C-O	5.91	126.69	120.42
1	R	338	GLY	N-CA-C	-5.90	100.30	112.34
1	A	149	PRO	N-CA-C	-5.90	106.48	113.86
1	P	261	ILE	CA-C-O	5.90	127.09	120.95
1	A	260	GLU	N-CA-C	5.90	117.71	111.28
1	G	169	ILE	CA-C-O	-5.90	112.05	119.95
1	N	279	PRO	CA-C-N	5.90	131.89	121.80
1	N	279	PRO	C-N-CA	5.90	131.89	121.80
1	N	318	THR	N-CA-C	-5.89	104.76	111.07
1	G	177	GLU	N-CA-C	-5.89	101.33	110.10
1	J	242	THR	CA-C-O	-5.89	113.89	120.66
1	O	260	GLU	CA-C-O	5.89	126.79	120.55
1	B	143	VAL	CA-C-N	5.88	132.78	121.54
1	B	143	VAL	C-N-CA	5.88	132.78	121.54
1	D	235	ASP	N-CA-C	-5.88	104.86	111.28
1	Q	326	ALA	N-CA-C	-5.88	101.70	110.23
1	Q	330	CYS	N-CA-C	5.88	117.78	111.36
1	Q	170	PRO	N-CA-C	-5.88	105.87	113.57
1	G	212	TRP	N-CA-C	-5.87	104.58	110.97
1	M	263	LYS	CA-C-N	-5.87	111.83	120.28
1	M	263	LYS	C-N-CA	-5.87	111.83	120.28
1	R	288	GLY	CA-C-N	5.87	127.17	119.84
1	R	288	GLY	C-N-CA	5.87	127.17	119.84
1	D	271	ASN	CA-C-O	5.86	126.97	120.82
1	D	280	THR	N-CA-C	5.86	123.28	110.80
1	E	146	ALA	N-CA-C	5.86	117.69	108.96
1	R	228	MET	CA-C-N	5.86	132.73	121.54
1	R	228	MET	C-N-CA	5.86	132.73	121.54
1	J	299	ARG	CA-C-O	5.86	126.76	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	144	HIS	N-CA-C	-5.86	98.19	108.20
1	M	338	GLY	N-CA-C	-5.85	100.40	112.34
1	B	196	ALA	O-C-N	-5.85	116.04	122.07
1	L	308	GLN	N-CA-C	5.85	118.75	108.75
1	I	200	MET	O-C-N	-5.85	115.92	122.12
1	K	314	LYS	N-CA-C	5.85	117.65	111.28
1	L	328	PRO	CA-C-N	5.85	128.59	120.29
1	L	328	PRO	C-N-CA	5.85	128.59	120.29
1	A	283	LEU	CA-C-O	5.84	126.56	119.49
1	A	333	ILE	N-CA-C	-5.84	104.82	110.72
1	F	150	ARG	CA-C-O	5.84	126.62	120.42
1	K	295	ASP	N-CA-C	-5.84	104.99	111.36
1	J	341	ALA	N-CA-C	5.84	117.43	110.19
1	O	264	ARG	CA-C-N	5.84	128.03	120.44
1	O	264	ARG	C-N-CA	5.84	128.03	120.44
1	N	253	ASN	N-CA-C	-5.83	100.07	109.40
1	P	309	ALA	CA-C-N	5.83	132.68	121.54
1	P	309	ALA	C-N-CA	5.83	132.68	121.54
1	A	194	HIS	CA-C-N	5.83	128.09	120.28
1	A	194	HIS	C-N-CA	5.83	128.09	120.28
1	N	311	GLN	N-CA-C	5.83	117.43	111.14
1	H	185	ASN	N-CA-C	-5.82	104.93	111.28
1	Q	290	LYS	CA-C-N	5.82	129.92	122.64
1	Q	290	LYS	C-N-CA	5.82	129.92	122.64
1	O	196	ALA	CA-C-O	5.82	126.93	120.82
1	D	316	TRP	CA-C-O	5.82	126.59	120.42
1	O	281	SER	N-CA-C	5.82	118.70	108.75
1	N	181	PRO	N-CA-C	-5.82	105.95	113.57
1	C	286	ARG	CA-C-N	-5.82	111.77	121.89
1	C	286	ARG	C-N-CA	-5.82	111.77	121.89
1	N	176	SER	CA-C-N	5.81	132.64	121.54
1	N	176	SER	C-N-CA	5.81	132.64	121.54
1	O	263	LYS	CA-C-N	-5.81	111.91	120.28
1	O	263	LYS	C-N-CA	-5.81	111.91	120.28
1	P	211	GLU	CA-C-N	5.81	128.32	120.65
1	P	211	GLU	C-N-CA	5.81	128.32	120.65
1	R	251	THR	N-CA-C	-5.81	106.10	112.72
1	O	167	GLU	CA-C-N	5.80	128.40	121.84
1	O	167	GLU	C-N-CA	5.80	128.40	121.84
1	F	310	SER	N-CA-C	5.80	118.89	110.42
1	G	198	MET	N-CA-C	5.80	117.60	111.28
1	L	318	THR	N-CA-C	-5.80	104.96	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	180	THR	N-CA-C	-5.80	102.81	110.40
1	E	221	GLY	CA-C-N	5.79	125.75	119.78
1	E	221	GLY	C-N-CA	5.79	125.75	119.78
1	N	279	PRO	N-CA-C	-5.79	100.54	112.47
1	N	262	TYR	N-CA-C	-5.79	104.97	111.28
1	E	162	LYS	CA-C-N	5.78	132.58	121.54
1	E	162	LYS	C-N-CA	5.78	132.58	121.54
1	H	170	PRO	N-CA-C	-5.78	106.00	113.57
1	K	313	VAL	CA-C-O	5.77	127.46	121.05
1	L	183	ASP	N-CA-C	-5.77	104.36	111.40
1	F	298	ASP	CA-C-N	5.76	128.00	120.28
1	F	298	ASP	C-N-CA	5.76	128.00	120.28
1	F	327	ASN	CA-C-O	-5.76	114.53	120.87
1	N	333	ILE	N-CA-C	-5.76	104.90	110.72
1	G	298	ASP	CA-C-N	5.76	128.00	120.28
1	G	298	ASP	C-N-CA	5.76	128.00	120.28
1	E	338	GLY	N-CA-C	-5.76	100.59	112.34
1	Q	235	ASP	CA-C-N	5.76	130.47	120.86
1	Q	235	ASP	C-N-CA	5.76	130.47	120.86
1	I	328	PRO	CA-C-N	5.75	128.46	120.29
1	I	328	PRO	C-N-CA	5.75	128.46	120.29
1	N	286	ARG	CA-C-N	-5.75	114.85	122.85
1	N	286	ARG	C-N-CA	-5.75	114.85	122.85
1	B	258	VAL	CA-C-N	5.75	126.36	119.98
1	B	258	VAL	C-N-CA	5.75	126.36	119.98
1	C	312	GLU	CA-C-N	-5.75	113.31	120.56
1	C	312	GLU	C-N-CA	-5.75	113.31	120.56
1	R	290	LYS	N-CA-C	-5.75	105.76	112.89
1	B	257	PRO	CA-C-N	5.75	127.89	120.70
1	B	257	PRO	C-N-CA	5.75	127.89	120.70
1	F	298	ASP	CA-C-O	5.74	126.63	120.55
1	A	170	PRO	N-CA-C	-5.73	105.72	113.40
1	D	320	THR	N-CA-C	-5.73	106.12	113.23
1	G	157	LYS	CA-C-O	5.73	126.50	120.42
1	G	266	ILE	N-CA-C	5.73	116.47	110.62
1	J	274	VAL	N-CA-C	-5.73	104.77	110.62
1	A	315	ASN	CA-C-N	-5.73	112.16	120.29
1	A	315	ASN	C-N-CA	-5.73	112.16	120.29
1	M	157	LYS	CA-C-O	5.73	126.49	120.42
1	B	275	ARG	O-C-N	-5.72	114.82	122.43
1	O	294	ARG	CA-C-O	5.72	126.61	120.55
1	J	318	THR	N-CA-C	-5.72	105.05	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	194	HIS	CA-C-N	5.72	127.94	120.28
1	Q	194	HIS	C-N-CA	5.72	127.94	120.28
1	L	189	ASN	N-CA-C	-5.71	104.43	111.40
1	C	260	GLU	N-CA-C	5.70	117.50	111.28
1	G	232	ARG	N-CA-C	-5.70	100.64	109.14
1	P	333	ILE	N-CA-C	-5.70	104.96	110.72
1	B	306	ALA	N-CA-C	-5.70	105.82	112.89
1	O	253	ASN	N-CA-C	-5.70	97.42	108.59
1	I	308	GLN	N-CA-C	5.70	118.84	109.72
1	L	256	ILE	N-CA-C	-5.69	96.58	108.88
1	E	151	THR	N-CA-C	-5.69	105.16	111.36
1	H	238	GLY	N-CA-C	-5.69	107.13	115.72
1	H	268	LEU	N-CA-C	5.69	117.17	110.97
1	Q	272	LYS	N-CA-C	-5.69	105.16	111.36
1	E	316	TRP	CA-C-O	5.69	126.45	120.42
1	K	182	GLN	N-CA-C	5.69	118.42	111.82
1	L	297	VAL	O-C-N	-5.68	116.36	121.87
1	A	187	MET	CA-C-O	5.68	126.57	120.55
1	C	325	ASN	O-C-N	-5.68	115.06	122.39
1	A	158	VAL	N-CA-C	5.68	116.45	110.72
1	L	317	MET	CA-C-N	5.68	127.89	120.28
1	L	317	MET	C-N-CA	5.68	127.89	120.28
1	K	339	PRO	N-CA-C	5.67	124.16	112.47
1	D	253	ASN	N-CA-C	-5.67	96.48	108.73
1	A	280	THR	N-CA-C	5.67	122.87	110.80
1	D	327	ASN	CA-C-N	5.67	125.78	119.32
1	D	327	ASN	C-N-CA	5.67	125.78	119.32
1	N	233	GLY	CA-C-N	5.67	128.34	120.29
1	N	233	GLY	C-N-CA	5.67	128.34	120.29
1	O	301	ALA	O-C-N	-5.67	116.11	122.12
1	N	338	GLY	CA-C-N	5.66	126.92	119.84
1	N	338	GLY	C-N-CA	5.66	126.92	119.84
1	N	327	ASN	CA-C-O	-5.66	114.64	120.87
1	P	339	PRO	N-CA-C	5.66	124.13	112.47
1	F	316	TRP	CA-C-O	5.66	126.42	120.42
1	J	330	CYS	CA-C-N	5.66	127.86	120.28
1	J	330	CYS	C-N-CA	5.66	127.86	120.28
1	K	328	PRO	CA-C-N	-5.66	112.75	120.44
1	K	328	PRO	C-N-CA	-5.66	112.75	120.44
1	R	300	PHE	N-CA-C	-5.66	105.12	111.28
1	E	171	MET	CA-C-N	-5.65	112.27	120.29
1	E	171	MET	C-N-CA	-5.65	112.27	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	183	ASP	N-CA-C	-5.65	104.74	111.69
1	G	338	GLY	N-CA-C	-5.65	100.82	112.34
1	M	217	PRO	CA-C-N	5.64	132.13	121.97
1	M	217	PRO	C-N-CA	5.64	132.13	121.97
1	F	155	TRP	CA-C-O	5.64	126.74	120.82
1	H	339	PRO	N-CA-C	5.64	124.09	112.47
1	K	324	GLN	O-C-N	-5.64	116.26	122.07
1	P	238	GLY	N-CA-C	-5.64	105.83	115.08
1	G	148	SER	O-C-N	-5.64	115.23	121.66
1	R	219	HIS	CA-C-N	5.64	132.30	121.54
1	R	219	HIS	C-N-CA	5.64	132.30	121.54
1	J	146	ALA	CA-C-N	5.63	132.11	121.97
1	J	146	ALA	C-N-CA	5.63	132.11	121.97
1	J	219	HIS	N-CA-C	5.63	117.83	108.99
1	L	167	GLU	CA-C-N	5.63	128.20	121.84
1	L	167	GLU	C-N-CA	5.63	128.20	121.84
1	C	225	PRO	CA-C-N	5.63	132.44	121.41
1	C	225	PRO	C-N-CA	5.63	132.44	121.41
1	Q	242	THR	N-CA-C	-5.63	100.97	108.74
1	O	212	TRP	N-CA-C	-5.62	104.84	110.97
1	O	347	MET	CA-C-N	5.62	128.28	120.29
1	O	347	MET	C-N-CA	5.62	128.28	120.29
1	B	289	PRO	CA-C-N	-5.61	113.58	122.23
1	B	289	PRO	C-N-CA	-5.61	113.58	122.23
1	F	238	GLY	N-CA-C	-5.61	107.44	115.64
1	A	292	PRO	N-CA-C	5.61	119.49	111.13
1	J	233	GLY	CA-C-N	5.61	128.26	120.29
1	J	233	GLY	C-N-CA	5.61	128.26	120.29
1	B	161	GLU	N-CA-C	-5.61	104.56	111.40
1	P	241	SER	N-CA-C	-5.61	100.56	109.76
1	C	351	GLN	N-CA-C	-5.61	95.30	111.00
1	M	224	ALA	CA-C-O	-5.60	114.19	119.91
1	C	299	ARG	N-CA-C	5.60	117.06	111.07
1	C	325	ASN	N-CA-C	-5.60	106.30	113.02
1	L	322	LEU	N-CA-C	-5.60	105.08	111.07
1	P	285	ILE	CA-C-N	5.59	131.37	122.59
1	P	285	ILE	C-N-CA	5.59	131.37	122.59
1	Q	320	THR	CA-C-O	5.59	125.83	119.18
1	C	152	LEU	CA-C-N	5.59	127.77	120.28
1	C	152	LEU	C-N-CA	5.59	127.77	120.28
1	O	148	SER	O-C-N	-5.59	114.89	121.32
1	R	318	THR	N-CA-C	-5.58	105.09	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	306	ALA	N-CA-C	5.58	119.81	112.89
1	M	182	GLN	N-CA-C	5.58	118.30	111.82
1	Q	313	VAL	CA-C-N	5.58	127.76	120.28
1	Q	313	VAL	C-N-CA	5.58	127.76	120.28
1	J	322	LEU	N-CA-C	-5.58	105.10	111.07
1	N	145	GLN	N-CA-C	-5.58	100.46	108.60
1	F	289	PRO	CA-C-N	-5.58	111.23	122.55
1	F	289	PRO	C-N-CA	-5.58	111.23	122.55
1	P	186	THR	N-CA-C	-5.58	105.10	111.07
1	C	150	ARG	CA-C-O	5.57	126.33	120.42
1	K	338	GLY	CA-C-N	5.57	126.80	119.84
1	K	338	GLY	C-N-CA	5.57	126.80	119.84
1	B	166	PRO	N-CA-C	5.57	123.94	112.47
1	G	230	GLU	O-C-N	-5.57	114.92	121.32
1	F	321	LEU	N-CA-C	-5.56	106.85	113.97
1	H	224	ALA	N-CA-C	-5.56	103.12	108.07
1	E	213	ASP	CA-C-N	5.56	127.73	120.28
1	E	213	ASP	C-N-CA	5.56	127.73	120.28
1	L	226	GLY	N-CA-C	-5.56	100.00	113.18
1	N	308	GLN	CA-C-N	5.56	132.16	121.54
1	N	308	GLN	C-N-CA	5.56	132.16	121.54
1	B	217	PRO	CA-C-N	5.55	131.97	121.97
1	B	217	PRO	C-N-CA	5.55	131.97	121.97
1	C	154	ALA	O-C-N	-5.55	116.35	122.07
1	O	342	THR	N-CA-C	-5.55	102.18	110.23
1	C	339	PRO	CA-C-N	5.55	128.57	120.91
1	C	339	PRO	C-N-CA	5.55	128.57	120.91
1	C	233	GLY	CA-C-N	5.55	127.98	120.44
1	C	233	GLY	C-N-CA	5.55	127.98	120.44
1	I	155	TRP	CA-C-N	5.55	128.35	120.53
1	I	155	TRP	C-N-CA	5.55	128.35	120.53
1	J	187	MET	N-CA-C	5.54	117.32	111.28
1	M	202	LYS	CA-C-O	5.53	126.35	120.10
1	O	200	MET	CA-C-O	5.53	126.42	120.55
1	N	168	VAL	N-CA-C	-5.53	106.95	113.42
1	Q	180	THR	O-C-N	-5.53	114.96	121.32
1	K	147	ILE	N-CA-C	5.53	120.84	109.34
1	A	261	ILE	CA-C-O	5.53	127.03	121.17
1	D	162	LYS	CA-C-N	5.53	132.10	121.54
1	D	162	LYS	C-N-CA	5.53	132.10	121.54
1	Q	200	MET	CA-C-N	-5.53	112.87	120.28
1	Q	200	MET	C-N-CA	-5.53	112.87	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	169	ILE	N-CA-C	5.52	120.80	108.88
1	G	285	ILE	CA-C-N	5.52	132.08	121.54
1	G	285	ILE	C-N-CA	5.52	132.08	121.54
1	R	162	LYS	N-CA-C	5.52	122.56	110.80
1	R	220	ALA	N-CA-C	5.52	122.56	110.80
1	H	265	TRP	O-C-N	-5.51	116.28	122.12
1	N	270	LEU	N-CA-C	5.51	118.00	111.33
1	M	168	VAL	CA-C-N	5.51	123.71	120.24
1	M	168	VAL	C-N-CA	5.51	123.71	120.24
1	C	343	LEU	N-CA-C	5.51	117.28	111.28
1	J	284	ASP	N-CA-C	-5.51	106.56	113.28
1	Q	162	LYS	CA-C-N	5.51	129.08	120.82
1	Q	162	LYS	C-N-CA	5.51	129.08	120.82
1	N	204	THR	CA-C-N	5.50	127.50	120.56
1	N	204	THR	C-N-CA	5.50	127.50	120.56
1	M	348	THR	N-CA-C	-5.50	105.36	111.36
1	A	178	GLY	CA-C-N	5.50	132.04	121.54
1	A	178	GLY	C-N-CA	5.50	132.04	121.54
1	H	284	ASP	N-CA-C	-5.50	106.57	113.28
1	B	278	SER	CA-C-N	5.50	126.71	119.84
1	B	278	SER	C-N-CA	5.50	126.71	119.84
1	O	219	HIS	N-CA-C	-5.50	105.25	112.72
1	P	160	GLU	N-CA-C	5.50	119.25	112.54
1	F	146	ALA	N-CA-C	5.49	116.62	108.60
1	E	157	LYS	O-C-N	-5.49	116.30	122.12
1	J	270	LEU	N-CA-C	5.49	117.97	111.33
1	L	279	PRO	N-CA-C	-5.49	101.16	112.47
1	M	218	VAL	CA-C-N	5.49	128.19	120.28
1	M	218	VAL	C-N-CA	5.49	128.19	120.28
1	O	165	SER	CA-C-N	5.49	126.70	119.84
1	O	165	SER	C-N-CA	5.49	126.70	119.84
1	B	152	LEU	CA-C-N	5.48	127.63	120.28
1	B	152	LEU	C-N-CA	5.48	127.63	120.28
1	I	230	GLU	N-CA-C	-5.48	99.30	109.06
1	I	199	GLN	CA-C-N	-5.48	112.93	120.28
1	I	199	GLN	C-N-CA	-5.48	112.93	120.28
1	F	256	ILE	N-CA-C	-5.48	97.05	108.88
1	D	293	PHE	N-CA-C	5.48	117.25	111.28
1	F	285	ILE	N-CA-C	-5.48	99.59	107.37
1	O	149	PRO	N-CA-C	-5.47	107.02	113.86
1	J	156	VAL	CA-C-O	5.47	126.74	121.05
1	C	265	TRP	CA-C-O	5.47	126.35	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	331	LYS	O-C-N	-5.47	116.33	122.12
1	Q	148	SER	O-C-N	-5.46	115.67	121.30
1	C	293	PHE	N-CA-C	5.46	117.23	111.28
1	N	216	HIS	N-CA-C	5.46	121.88	109.81
1	J	337	LEU	N-CA-C	5.46	118.40	111.69
1	K	280	THR	N-CA-C	5.45	122.41	110.80
1	O	266	ILE	N-CA-C	5.45	116.17	110.62
1	A	153	ASN	N-CA-C	-5.44	105.35	111.28
1	I	196	ALA	CA-C-O	5.44	126.53	120.82
1	R	342	THR	CA-C-N	5.44	127.83	120.38
1	R	342	THR	C-N-CA	5.44	127.83	120.38
1	H	286	ARG	N-CA-C	-5.44	101.04	109.14
1	Q	199	GLN	N-CA-C	5.44	116.89	111.07
1	B	165	SER	CA-C-N	5.43	126.63	119.84
1	B	165	SER	C-N-CA	5.43	126.63	119.84
1	E	303	THR	CA-C-N	5.43	127.56	120.28
1	E	303	THR	C-N-CA	5.43	127.56	120.28
1	H	234	SER	O-C-N	-5.43	115.96	122.15
1	I	240	THR	N-CA-C	-5.43	99.23	110.80
1	A	151	THR	N-CA-C	-5.43	105.44	111.36
1	A	253	ASN	N-CA-C	-5.43	97.00	108.73
1	C	200	MET	CA-C-O	5.43	126.31	120.55
1	C	316	TRP	CA-C-O	5.43	126.18	120.42
1	M	281	SER	N-CA-C	-5.43	101.72	110.14
1	C	268	LEU	CA-C-N	-5.43	110.77	121.41
1	C	268	LEU	C-N-CA	-5.43	110.77	121.41
1	C	301	ALA	O-C-N	-5.43	116.37	122.12
1	N	348	THR	CA-C-N	5.42	129.28	120.60
1	N	348	THR	C-N-CA	5.42	129.28	120.60
1	B	312	GLU	CA-C-O	5.42	126.30	120.55
1	O	308	GLN	N-CA-C	5.42	117.80	109.07
1	F	280	THR	N-CA-C	5.42	122.34	110.80
1	A	318	THR	CA-C-N	-5.42	112.08	120.31
1	A	318	THR	C-N-CA	-5.42	112.08	120.31
1	N	260	GLU	N-CA-C	5.42	117.19	111.28
1	N	309	ALA	CA-C-N	5.41	131.88	121.54
1	N	309	ALA	C-N-CA	5.41	131.88	121.54
1	K	310	SER	CA-C-N	-5.41	112.61	120.29
1	K	310	SER	C-N-CA	-5.41	112.61	120.29
1	I	270	LEU	N-CA-C	5.41	118.68	111.75
1	P	294	ARG	CA-C-N	5.41	127.97	120.29
1	P	294	ARG	C-N-CA	5.41	127.97	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	310	SER	CA-C-N	5.41	127.53	120.28
1	B	310	SER	C-N-CA	5.41	127.53	120.28
1	M	266	ILE	CA-C-O	5.41	126.57	120.95
1	L	297	VAL	CA-C-N	-5.40	113.04	120.28
1	L	297	VAL	C-N-CA	-5.40	113.04	120.28
1	M	148	SER	O-C-N	-5.40	115.50	121.66
1	Q	228	MET	CA-C-N	5.40	131.85	121.54
1	Q	228	MET	C-N-CA	5.40	131.85	121.54
1	P	271	ASN	N-CA-C	-5.40	105.30	111.07
1	N	244	GLN	CA-C-N	5.40	128.05	120.28
1	N	244	GLN	C-N-CA	5.40	128.05	120.28
1	I	337	LEU	N-CA-C	-5.39	105.06	111.69
1	K	298	ASP	CA-C-N	5.39	127.51	120.28
1	K	298	ASP	C-N-CA	5.39	127.51	120.28
1	I	234	SER	CA-C-N	5.39	127.45	120.44
1	I	234	SER	C-N-CA	5.39	127.45	120.44
1	O	278	SER	CA-C-N	5.39	126.58	119.84
1	O	278	SER	C-N-CA	5.39	126.58	119.84
1	A	232	ARG	CA-C-N	5.39	126.07	120.03
1	A	232	ARG	C-N-CA	5.39	126.07	120.03
1	R	268	LEU	O-C-N	-5.39	116.52	122.07
1	I	316	TRP	O-C-N	-5.38	116.01	122.15
1	N	343	LEU	O-C-N	-5.38	116.41	122.12
1	N	311	GLN	CA-C-N	5.38	127.49	120.28
1	N	311	GLN	C-N-CA	5.38	127.49	120.28
1	H	275	ARG	N-CA-C	5.38	118.94	112.38
1	A	238	GLY	N-CA-C	-5.38	107.69	115.27
1	I	253	ASN	N-CA-C	-5.38	97.12	108.73
1	P	338	GLY	CA-C-N	5.38	126.56	119.84
1	P	338	GLY	C-N-CA	5.38	126.56	119.84
1	G	167	GLU	CA-C-N	5.37	127.91	121.84
1	G	167	GLU	C-N-CA	5.37	127.91	121.84
1	K	316	TRP	CA-C-O	5.37	126.11	120.42
1	O	326	ALA	O-C-N	-5.37	116.34	122.68
1	R	253	ASN	CA-C-O	-5.37	114.83	120.09
1	D	266	ILE	CA-C-N	5.37	127.81	120.46
1	D	266	ILE	C-N-CA	5.37	127.81	120.46
1	F	283	LEU	CA-C-O	5.36	125.97	119.49
1	M	201	LEU	N-CA-C	5.36	117.12	111.28
1	Q	307	GLU	N-CA-C	5.36	117.44	110.53
1	A	339	PRO	CA-C-N	5.35	128.01	120.57
1	A	339	PRO	C-N-CA	5.35	128.01	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	201	LEU	N-CA-C	5.35	117.11	111.28
1	H	293	PHE	O-C-N	-5.35	116.10	122.20
1	L	307	GLU	N-CA-C	5.35	118.28	109.72
1	A	337	LEU	N-CA-C	-5.35	105.11	111.69
1	L	265	TRP	CA-C-N	5.35	127.30	120.56
1	L	265	TRP	C-N-CA	5.35	127.30	120.56
1	I	262	TYR	CA-C-N	5.35	127.45	120.28
1	I	262	TYR	C-N-CA	5.35	127.45	120.28
1	E	319	GLU	CA-C-O	5.35	125.96	119.49
1	F	155	TRP	CA-C-N	5.35	128.07	120.53
1	F	155	TRP	C-N-CA	5.35	128.07	120.53
1	K	168	VAL	N-CA-C	-5.35	107.17	113.42
1	K	194	HIS	CA-C-O	5.34	129.29	121.86
1	H	167	GLU	N-CA-C	5.34	122.17	110.80
1	H	346	MET	N-CA-C	5.34	116.78	111.07
1	Q	277	TYR	N-CA-C	-5.34	100.47	108.96
1	R	285	ILE	N-CA-C	-5.34	98.81	106.55
1	O	160	GLU	N-CA-C	5.34	119.05	112.54
1	R	272	LYS	N-CA-C	-5.34	105.54	111.36
1	A	155	TRP	CA-C-N	5.33	128.05	120.53
1	A	155	TRP	C-N-CA	5.33	128.05	120.53
1	K	315	ASN	CA-C-N	-5.33	112.72	120.29
1	K	315	ASN	C-N-CA	-5.33	112.72	120.29
1	B	339	PRO	CA-C-N	5.33	128.13	120.56
1	B	339	PRO	C-N-CA	5.33	128.13	120.56
1	I	344	GLU	O-C-N	-5.33	116.47	122.12
1	G	238	GLY	CA-C-N	5.33	131.71	121.54
1	G	238	GLY	C-N-CA	5.33	131.71	121.54
1	F	344	GLU	O-C-N	-5.32	116.48	122.12
1	K	204	THR	CA-C-N	5.32	127.26	120.56
1	K	204	THR	C-N-CA	5.32	127.26	120.56
1	Q	313	VAL	CA-C-O	5.32	126.81	121.17
1	A	316	TRP	O-C-N	-5.32	116.09	122.15
1	Q	328	PRO	CA-C-N	-5.32	113.21	120.44
1	Q	328	PRO	C-N-CA	-5.32	113.21	120.44
1	H	282	ILE	O-C-N	-5.32	116.50	121.87
1	K	293	PHE	N-CA-C	5.32	117.08	111.28
1	I	294	ARG	CA-C-N	5.31	127.84	120.29
1	I	294	ARG	C-N-CA	5.31	127.84	120.29
1	D	319	GLU	CA-C-O	5.31	125.92	119.49
1	P	189	ASN	N-CA-C	-5.31	104.92	111.40
1	K	146	ALA	CA-C-N	5.31	131.53	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	146	ALA	C-N-CA	5.31	131.53	121.97
1	L	221	GLY	CA-C-N	5.31	125.61	119.93
1	L	221	GLY	C-N-CA	5.31	125.61	119.93
1	O	321	LEU	N-CA-C	-5.31	107.17	113.97
1	P	249	TRP	O-C-N	-5.31	116.49	122.12
1	J	187	MET	O-C-N	-5.30	116.50	122.12
1	Q	292	PRO	CA-C-N	5.30	127.64	120.38
1	Q	292	PRO	C-N-CA	5.30	127.64	120.38
1	I	279	PRO	CA-C-N	5.30	131.66	121.54
1	I	279	PRO	C-N-CA	5.30	131.66	121.54
1	A	292	PRO	CA-C-O	5.29	129.14	122.15
1	D	182	GLN	N-CA-C	5.29	117.96	111.82
1	B	155	TRP	CA-C-N	5.29	127.99	120.53
1	B	155	TRP	C-N-CA	5.29	127.99	120.53
1	H	228	MET	N-CA-C	5.29	117.84	109.96
1	K	309	ALA	N-CA-C	5.29	117.90	109.02
1	C	144	HIS	N-CA-C	-5.29	99.54	110.80
1	J	275	ARG	N-CA-C	5.29	118.83	112.38
1	L	200	MET	N-CA-C	5.28	117.04	111.28
1	O	180	THR	N-CA-C	-5.28	103.48	110.40
1	E	199	GLN	N-CA-C	5.28	116.72	111.07
1	A	348	THR	N-CA-C	-5.28	105.69	111.82
1	O	249	TRP	CA-C-N	5.28	127.79	120.29
1	O	249	TRP	C-N-CA	5.28	127.79	120.29
1	A	179	ALA	N-CA-C	5.28	122.04	110.80
1	G	262	TYR	CA-C-N	5.27	127.35	120.28
1	G	262	TYR	C-N-CA	5.27	127.35	120.28
1	D	150	ARG	CA-C-O	5.27	126.00	120.42
1	H	316	TRP	CA-C-O	5.27	126.00	120.42
1	I	327	ASN	CA-C-N	5.27	124.90	119.05
1	I	327	ASN	C-N-CA	5.27	124.90	119.05
1	O	207	GLU	CA-C-O	5.27	126.03	119.97
1	B	348	THR	N-CA-C	-5.27	105.71	111.82
1	Q	316	TRP	O-C-N	-5.26	116.15	122.15
1	C	318	THR	CA-C-N	-5.26	112.70	120.28
1	C	318	THR	C-N-CA	-5.26	112.70	120.28
1	R	163	ALA	N-CA-C	5.26	122.00	110.80
1	M	326	ALA	N-CA-C	-5.26	103.59	110.53
1	D	260	GLU	O-C-N	-5.26	116.55	122.12
1	N	284	ASP	N-CA-C	-5.25	106.87	113.28
1	H	218	VAL	N-CA-C	-5.25	100.77	108.85
1	H	303	THR	CA-C-N	5.25	127.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	303	THR	C-N-CA	5.25	127.31	120.28
1	A	228	MET	CA-C-N	5.24	131.56	121.54
1	A	228	MET	C-N-CA	5.24	131.56	121.54
1	P	287	GLN	CA-C-N	5.24	130.10	121.87
1	P	287	GLN	C-N-CA	5.24	130.10	121.87
1	P	346	MET	N-CA-C	5.24	116.68	111.07
1	J	183	ASP	N-CA-C	-5.24	105.25	111.69
1	K	281	SER	CA-C-O	5.24	128.00	120.51
1	L	187	MET	O-C-N	-5.24	116.57	122.12
1	I	314	LYS	CA-C-N	-5.24	113.27	120.28
1	I	314	LYS	C-N-CA	-5.24	113.27	120.28
1	R	325	ASN	N-CA-C	-5.24	104.27	111.81
1	G	310	SER	CA-C-O	5.23	128.00	120.51
1	F	338	GLY	N-CA-C	-5.23	101.67	112.34
1	A	330	CYS	CA-C-N	5.23	127.55	120.38
1	A	330	CYS	C-N-CA	5.23	127.55	120.38
1	M	185	ASN	N-CA-C	-5.23	105.58	111.28
1	Q	249	TRP	O-C-N	-5.23	116.58	122.12
1	D	321	LEU	CA-C-O	5.23	124.56	118.97
1	M	312	GLU	CA-C-N	-5.23	113.00	120.42
1	M	312	GLU	C-N-CA	-5.23	113.00	120.42
1	Q	175	LEU	CA-C-N	5.22	128.01	120.38
1	Q	175	LEU	C-N-CA	5.22	128.01	120.38
1	O	314	LYS	CA-C-N	-5.22	113.28	120.28
1	O	314	LYS	C-N-CA	-5.22	113.28	120.28
1	G	270	LEU	N-CA-C	5.22	117.64	111.33
1	J	275	ARG	CA-C-N	-5.22	111.58	121.54
1	J	275	ARG	C-N-CA	-5.22	111.58	121.54
1	J	338	GLY	CA-C-O	-5.22	114.06	121.52
1	O	290	LYS	N-CA-C	-5.22	104.51	111.87
1	E	272	LYS	N-CA-C	-5.21	105.68	111.36
1	F	253	ASN	N-CA-C	-5.21	97.16	108.74
1	A	312	GLU	CA-C-O	5.21	126.07	120.55
1	E	281	SER	CA-C-O	5.21	126.81	121.23
1	G	282	ILE	O-C-N	-5.21	116.61	121.87
1	J	336	ALA	N-CA-C	5.21	118.80	112.23
1	C	251	THR	N-CA-C	-5.21	106.78	112.72
1	A	275	ARG	N-CA-C	5.21	118.73	112.38
1	G	169	ILE	O-C-N	-5.21	115.17	121.10
1	O	282	ILE	CA-C-N	5.21	130.67	120.99
1	O	282	ILE	C-N-CA	5.21	130.67	120.99
1	A	236	ILE	O-C-N	-5.20	116.61	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	180	THR	N-CA-C	-5.20	99.80	109.06
1	E	262	TYR	N-CA-C	-5.20	105.61	111.28
1	B	174	ALA	N-CA-C	-5.20	105.69	111.36
1	B	281	SER	CA-C-O	5.20	127.94	120.51
1	H	279	PRO	CA-C-N	5.20	131.47	121.54
1	H	279	PRO	C-N-CA	5.20	131.47	121.54
1	B	281	SER	O-C-N	-5.20	115.68	122.59
1	D	261	ILE	CA-C-O	5.20	126.35	120.95
1	E	312	GLU	CA-C-N	-5.20	114.01	120.56
1	E	312	GLU	C-N-CA	-5.20	114.01	120.56
1	K	205	ILE	N-CA-C	-5.20	105.43	110.42
1	L	178	GLY	CA-C-N	5.20	131.46	121.54
1	L	178	GLY	C-N-CA	5.20	131.46	121.54
1	E	169	ILE	CA-C-O	-5.19	112.99	119.95
1	A	321	LEU	N-CA-C	-5.19	107.32	113.97
1	B	223	ILE	N-CA-C	5.19	116.38	109.37
1	D	257	PRO	CA-C-N	5.19	127.19	120.70
1	D	257	PRO	C-N-CA	5.19	127.19	120.70
1	I	312	GLU	CA-C-N	-5.19	113.05	120.42
1	I	312	GLU	C-N-CA	-5.19	113.05	120.42
1	N	170	PRO	N-CA-C	-5.19	106.77	113.57
1	N	237	ALA	N-CA-C	-5.19	106.20	112.54
1	Q	294	ARG	CA-C-O	5.19	126.27	120.82
1	E	266	ILE	CA-C-N	5.19	127.57	120.46
1	E	266	ILE	C-N-CA	5.19	127.57	120.46
1	G	184	LEU	CA-C-N	5.19	127.23	120.28
1	G	184	LEU	C-N-CA	5.19	127.23	120.28
1	P	303	THR	CA-C-N	5.19	127.23	120.28
1	P	303	THR	C-N-CA	5.19	127.23	120.28
1	R	288	GLY	O-C-N	5.19	126.96	121.77
1	L	150	ARG	N-CA-C	-5.19	105.63	111.28
1	M	265	TRP	N-CA-C	5.18	116.62	111.07
1	I	320	THR	N-CA-C	-5.18	106.81	113.23
1	K	312	GLU	CA-C-N	-5.18	113.93	120.56
1	K	312	GLU	C-N-CA	-5.18	113.93	120.56
1	C	151	THR	N-CA-C	-5.18	105.72	111.36
1	F	200	MET	O-C-N	-5.18	116.63	122.12
1	I	203	GLU	N-CA-C	-5.18	105.64	111.28
1	I	208	GLU	O-C-N	5.18	127.61	122.12
1	R	168	VAL	N-CA-C	-5.18	107.36	113.42
1	B	172	PHE	O-C-N	-5.17	116.25	122.15
1	L	346	MET	N-CA-C	5.17	116.60	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	179	ALA	N-CA-C	5.17	121.81	110.80
1	G	314	LYS	CA-C-N	-5.17	113.35	120.28
1	G	314	LYS	C-N-CA	-5.17	113.35	120.28
1	I	320	THR	CA-C-O	5.17	125.32	119.27
1	E	349	ALA	CA-C-O	5.17	125.91	119.97
1	I	169	ILE	O-C-N	-5.17	115.21	121.10
1	H	322	LEU	N-CA-C	-5.16	105.55	111.07
1	L	210	ALA	CA-C-N	5.16	127.20	120.28
1	L	210	ALA	C-N-CA	5.16	127.20	120.28
1	P	150	ARG	N-CA-C	-5.16	105.65	111.28
1	O	322	LEU	N-CA-C	-5.16	105.55	111.07
1	F	312	GLU	CA-C-N	-5.16	114.06	120.56
1	F	312	GLU	C-N-CA	-5.16	114.06	120.56
1	C	271	ASN	CA-C-O	5.16	126.01	120.70
1	D	231	PRO	N-CA-C	5.16	123.09	112.47
1	N	339	PRO	N-CA-C	5.16	123.09	112.47
1	K	312	GLU	CA-C-O	5.15	126.01	120.55
1	B	226	GLY	CA-C-N	5.14	131.36	121.54
1	B	226	GLY	C-N-CA	5.14	131.36	121.54
1	H	203	GLU	N-CA-C	-5.14	105.67	111.28
1	M	213	ASP	CA-C-O	5.14	126.00	120.55
1	K	260	GLU	CA-C-O	5.14	126.00	120.55
1	C	220	ALA	CA-C-N	5.14	129.94	121.87
1	C	220	ALA	C-N-CA	5.14	129.94	121.87
1	O	177	GLU	CA-C-N	5.14	131.49	121.41
1	O	177	GLU	C-N-CA	5.14	131.49	121.41
1	K	338	GLY	N-CA-C	-5.14	101.86	112.34
1	O	344	GLU	N-CA-C	5.14	116.88	111.28
1	B	180	THR	O-C-N	-5.14	115.41	121.32
1	O	277	TYR	N-CA-C	-5.13	99.63	108.56
1	A	290	LYS	N-CA-C	5.13	119.18	113.02
1	G	158	VAL	CA-C-O	5.13	126.29	120.95
1	I	147	ILE	N-CA-C	5.13	120.01	109.34
1	P	321	LEU	N-CA-C	-5.13	107.40	113.97
1	E	169	ILE	O-C-N	-5.13	115.25	121.10
1	O	183	ASP	N-CA-C	-5.13	105.14	111.40
1	B	155	TRP	CA-C-O	5.13	126.20	120.82
1	E	279	PRO	CA-C-N	5.13	131.33	121.54
1	E	279	PRO	C-N-CA	5.13	131.33	121.54
1	L	237	ALA	CA-C-O	5.13	125.69	119.38
1	D	243	LEU	CA-C-O	-5.12	115.42	120.90
1	D	256	ILE	N-CA-C	-5.12	97.81	108.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	296	TYR	N-CA-C	5.12	116.55	111.07
1	N	230	GLU	N-CA-C	5.12	121.13	109.81
1	A	220	ALA	N-CA-C	5.12	117.31	110.35
1	A	331	LYS	CA-C-N	5.12	127.14	120.28
1	A	331	LYS	C-N-CA	5.12	127.14	120.28
1	D	292	PRO	CA-C-O	5.12	128.47	122.12
1	R	186	THR	CA-C-N	-5.12	113.79	120.44
1	R	186	THR	C-N-CA	-5.12	113.79	120.44
1	I	237	ALA	N-CA-C	-5.12	106.30	112.54
1	Q	257	PRO	CA-C-N	5.12	127.09	120.70
1	Q	257	PRO	C-N-CA	5.12	127.09	120.70
1	A	219	HIS	N-CA-C	-5.11	104.87	111.71
1	D	180	THR	CA-C-N	-5.11	113.46	119.84
1	D	180	THR	C-N-CA	-5.11	113.46	119.84
1	G	205	ILE	CA-C-O	5.11	126.72	121.05
1	P	265	TRP	O-C-N	-5.11	116.81	122.07
1	Q	256	ILE	N-CA-C	-5.10	97.86	108.88
1	A	230	GLU	CA-C-N	5.10	126.22	119.84
1	A	230	GLU	C-N-CA	5.10	126.22	119.84
1	B	284	ASP	N-CA-C	-5.10	107.06	113.28
1	H	274	VAL	N-CA-C	5.10	115.82	110.62
1	P	200	MET	CA-C-O	5.10	125.96	120.55
1	L	229	ARG	N-CA-C	5.10	121.66	110.80
1	B	154	ALA	O-C-N	-5.10	116.82	122.07
1	D	177	GLU	CA-C-N	5.09	131.40	121.41
1	D	177	GLU	C-N-CA	5.09	131.40	121.41
1	P	299	ARG	CA-C-O	5.09	125.95	120.55
1	A	185	ASN	N-CA-C	-5.09	105.73	111.28
1	J	149	PRO	N-CA-C	-5.09	107.50	113.86
1	O	192	GLY	CA-C-N	5.09	131.39	121.41
1	O	192	GLY	C-N-CA	5.09	131.39	121.41
1	E	285	ILE	CA-C-O	5.09	127.14	120.78
1	P	268	LEU	O-C-N	-5.09	116.74	122.03
1	C	282	ILE	O-C-N	-5.09	116.73	121.87
1	H	260	GLU	N-CA-C	5.09	116.83	111.28
1	K	194	HIS	N-CA-C	-5.09	101.89	109.11
1	M	209	ALA	O-C-N	-5.09	116.83	122.07
1	R	275	ARG	CA-C-N	-5.09	114.17	122.26
1	R	275	ARG	C-N-CA	-5.09	114.17	122.26
1	Q	217	PRO	CA-C-N	5.08	128.96	120.62
1	Q	217	PRO	C-N-CA	5.08	128.96	120.62
1	M	350	CYS	O-C-N	-5.08	115.99	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	268	LEU	N-CA-C	5.08	116.51	110.97
1	J	186	THR	CA-C-N	-5.08	113.47	120.28
1	J	186	THR	C-N-CA	-5.08	113.47	120.28
1	B	318	THR	CA-C-N	-5.08	112.97	120.28
1	B	318	THR	C-N-CA	-5.08	112.97	120.28
1	G	288	GLY	CA-C-N	5.08	126.19	119.84
1	G	288	GLY	C-N-CA	5.08	126.19	119.84
1	R	144	HIS	CA-C-N	5.08	131.24	121.54
1	R	144	HIS	C-N-CA	5.08	131.24	121.54
1	I	313	VAL	CA-C-O	5.08	126.23	120.85
1	B	307	GLU	CA-C-N	5.08	131.23	121.54
1	B	307	GLU	C-N-CA	5.08	131.23	121.54
1	M	147	ILE	N-CA-C	5.08	119.90	109.34
1	G	238	GLY	CA-C-O	5.07	123.97	119.56
1	G	267	ILE	CA-C-N	5.07	127.39	120.54
1	G	267	ILE	C-N-CA	5.07	127.39	120.54
1	C	165	SER	CA-C-N	5.07	126.18	119.84
1	C	165	SER	C-N-CA	5.07	126.18	119.84
1	D	321	LEU	N-CA-C	-5.07	107.48	113.97
1	C	302	LYS	CA-C-O	5.07	125.92	120.55
1	D	153	ASN	N-CA-C	-5.07	105.76	111.28
1	D	170	PRO	N-CA-C	-5.07	106.93	113.57
1	F	318	THR	CA-C-O	-5.07	115.18	120.55
1	I	288	GLY	N-CA-C	5.07	122.67	112.34
1	N	235	ASP	CA-C-N	5.06	129.32	120.86
1	N	235	ASP	C-N-CA	5.06	129.32	120.86
1	J	170	PRO	N-CA-C	-5.06	106.94	113.57
1	Q	315	ASN	N-CA-C	5.06	116.61	111.14
1	B	246	GLN	N-CA-C	-5.06	105.45	110.97
1	O	165	SER	N-CA-C	5.06	119.89	109.11
1	K	312	GLU	O-C-N	-5.06	116.76	122.12
1	M	262	TYR	CA-C-N	5.06	127.06	120.28
1	M	262	TYR	C-N-CA	5.06	127.06	120.28
1	F	339	PRO	CA-C-N	5.05	127.88	120.91
1	F	339	PRO	C-N-CA	5.05	127.88	120.91
1	H	205	ILE	O-C-N	-5.05	116.96	121.91
1	I	325	ASN	CA-C-O	5.05	125.26	119.35
1	M	314	LYS	CA-C-N	-5.05	113.51	120.28
1	M	314	LYS	C-N-CA	-5.05	113.51	120.28
1	B	279	PRO	N-CA-C	5.05	122.87	112.47
1	K	299	ARG	CA-C-O	5.05	125.90	120.55
1	N	150	ARG	N-CA-C	-5.05	105.78	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	249	TRP	O-C-N	-5.05	116.77	122.12
1	B	276	MET	N-CA-C	-5.04	100.06	110.80
1	J	280	THR	N-CA-C	5.04	117.52	109.81
1	N	265	TRP	CA-C-O	5.04	125.89	120.55
1	C	211	GLU	CA-C-O	-5.04	115.21	120.55
1	M	300	PHE	O-C-N	-5.04	116.88	122.07
1	Q	237	ALA	N-CA-C	-5.04	106.39	112.54
1	P	321	LEU	CA-C-O	5.04	124.36	118.97
1	O	204	THR	CA-C-N	-5.04	114.22	120.56
1	O	204	THR	C-N-CA	-5.04	114.22	120.56
1	B	238	GLY	N-CA-C	-5.03	108.38	114.92
1	I	294	ARG	CA-C-O	5.03	125.88	120.55
1	A	183	ASP	N-CA-C	-5.03	105.27	111.40
1	I	230	GLU	CA-C-O	-5.03	115.86	120.94
1	K	143	VAL	CA-C-N	5.03	129.86	122.77
1	K	143	VAL	C-N-CA	5.03	129.86	122.77
1	Q	310	SER	N-CA-C	5.03	117.52	110.23
1	A	276	MET	N-CA-C	-5.02	107.54	113.97
1	P	191	VAL	CA-C-N	5.02	126.64	120.51
1	P	191	VAL	C-N-CA	5.02	126.64	120.51
1	A	226	GLY	CA-C-N	5.02	131.13	121.54
1	A	226	GLY	C-N-CA	5.02	131.13	121.54
1	C	348	THR	N-CA-C	-5.02	106.00	111.82
1	R	195	GLN	N-CA-C	5.01	117.40	111.33
1	D	178	GLY	CA-C-N	5.01	131.11	121.54
1	D	178	GLY	C-N-CA	5.01	131.11	121.54
1	R	206	ASN	N-CA-C	5.01	116.74	111.28
1	H	285	ILE	CA-C-N	5.01	130.37	122.36
1	H	285	ILE	C-N-CA	5.01	130.37	122.36
1	I	282	ILE	CA-C-N	5.01	130.31	120.99
1	I	282	ILE	C-N-CA	5.01	130.31	120.99
1	J	308	GLN	N-CA-C	5.01	121.47	110.80
1	Q	271	ASN	N-CA-C	5.01	116.43	111.07
1	A	309	ALA	CA-C-N	5.01	131.10	121.54
1	A	309	ALA	C-N-CA	5.01	131.10	121.54
1	F	319	GLU	CA-C-O	5.00	125.54	119.49
1	M	169	ILE	CA-C-O	-5.00	114.60	118.85
1	C	216	HIS	N-CA-C	-5.00	97.66	108.81
1	M	183	ASP	N-CA-C	-5.00	105.30	111.40

There are no chirality outliers.

All (118) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	269	GLY	Mainchain
1	A	277	TYR	Mainchain
1	A	279	PRO	Peptide
1	A	284	ASP	Mainchain
1	A	288	GLY	Mainchain
1	A	325	ASN	Mainchain
1	A	343	LEU	Mainchain,Peptide
1	A	350	CYS	Mainchain
1	B	269	GLY	Mainchain
1	B	279	PRO	Peptide
1	B	293	PHE	Mainchain
1	B	343	LEU	Mainchain,Peptide
1	B	350	CYS	Mainchain
1	C	255	PRO	Mainchain
1	C	269	GLY	Mainchain
1	C	279	PRO	Peptide
1	C	343	LEU	Mainchain,Peptide
1	C	350	CYS	Mainchain
1	D	161	GLU	Mainchain,Peptide
1	D	167	GLU	Mainchain
1	D	168	VAL	Mainchain
1	D	181	PRO	Mainchain
1	D	242	THR	Mainchain
1	D	269	GLY	Mainchain
1	D	279	PRO	Peptide
1	D	325	ASN	Mainchain
1	D	343	LEU	Mainchain,Peptide
1	D	350	CYS	Mainchain
1	E	279	PRO	Peptide
1	E	343	LEU	Mainchain
1	F	143	VAL	Mainchain
1	F	161	GLU	Mainchain,Peptide
1	F	168	VAL	Mainchain
1	F	277	TYR	Mainchain
1	F	279	PRO	Peptide
1	F	284	ASP	Mainchain
1	F	292	PRO	Mainchain
1	F	350	CYS	Mainchain
1	G	279	PRO	Peptide
1	G	317	MET	Mainchain,Peptide
1	H	175	LEU	Mainchain
1	H	181	PRO	Mainchain
1	H	228	MET	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
1	H	242	THR	Mainchain,Peptide
1	H	269	GLY	Mainchain
1	H	279	PRO	Peptide
1	H	293	PHE	Mainchain
1	H	310	SER	Mainchain,Peptide
1	H	326	ALA	Mainchain
1	H	342	THR	Mainchain,Peptide
1	I	161	GLU	Mainchain
1	I	176	SER	Mainchain
1	I	277	TYR	Mainchain,Peptide
1	I	279	PRO	Peptide
1	J	168	VAL	Mainchain,Peptide
1	J	175	LEU	Mainchain
1	J	240	THR	Mainchain
1	J	242	THR	Mainchain,Peptide
1	J	279	PRO	Peptide
1	J	290	LYS	Mainchain
1	J	291	GLU	Mainchain
1	J	310	SER	Mainchain,Peptide
1	J	321	LEU	Mainchain
1	K	161	GLU	Mainchain,Peptide
1	K	162	LYS	Mainchain
1	K	269	GLY	Mainchain
1	K	279	PRO	Peptide
1	L	168	VAL	Mainchain
1	L	216	HIS	Mainchain
1	L	226	GLY	Mainchain
1	L	279	PRO	Peptide
1	L	284	ASP	Mainchain
1	L	321	LEU	Mainchain
1	M	167	GLU	Mainchain
1	M	176	SER	Mainchain,Peptide
1	M	279	PRO	Peptide
1	M	342	THR	Mainchain
1	N	240	THR	Mainchain,Peptide
1	N	279	PRO	Peptide
1	N	291	GLU	Mainchain
1	N	342	THR	Mainchain
1	O	161	GLU	Mainchain
1	O	176	SER	Mainchain
1	O	227	GLN	Mainchain
1	O	279	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	O	343	LEU	Mainchain,Peptide
1	P	269	GLY	Mainchain
1	P	279	PRO	Peptide
1	P	309	ALA	Peptide
1	P	310	SER	Mainchain
1	P	326	ALA	Mainchain
1	Q	279	PRO	Peptide
1	Q	343	LEU	Mainchain
1	R	227	GLN	Mainchain
1	R	242	THR	Mainchain
1	R	279	PRO	Peptide
1	R	310	SER	Mainchain,Peptide
1	R	321	LEU	Mainchain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	840	419	219	10	0
1	B	840	419	219	7	0
1	C	840	419	219	3	0
1	D	840	419	219	8	0
1	E	840	419	219	8	0
1	F	840	419	219	5	0
1	G	840	419	219	8	0
1	H	840	419	219	6	0
1	I	840	419	219	4	0
1	J	840	419	219	3	0
1	K	840	419	219	8	0
1	L	840	419	219	2	0
1	M	840	419	219	12	0
1	N	840	419	219	4	0
1	O	840	419	219	4	0
1	P	840	419	219	7	0
1	Q	840	419	219	6	0
1	R	840	419	219	6	0
All	All	15120	7542	3942	111	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 6.

All (111) 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)
1:F:179:ALA:O	1:F:259:GLY:HA3	2.08	0.54
1:G:175:LEU:C	1:G:177:GLU:H	2.17	0.53
1:Q:179:ALA:O	1:Q:259:GLY:HA2	2.10	0.52
1:A:166:PRO:C	1:A:168:VAL:H	2.17	0.52
1:Q:179:ALA:C	1:Q:259:GLY:HA2	2.36	0.50
1:M:293:PHE:C	1:M:296:TYR:H	2.20	0.50
1:I:282:ILE:C	1:I:284:ASP:H	2.19	0.50
1:R:181:PRO:O	1:R:185:ASN:N	2.45	0.50
1:O:176:SER:C	1:O:178:GLY:H	2.19	0.49
1:H:303:THR:O	1:H:307:GLU:N	2.46	0.48
1:K:340:GLY:C	1:K:342:THR:H	2.20	0.48
1:G:293:PHE:C	1:G:296:TYR:H	2.22	0.48
1:P:181:PRO:O	1:P:185:ASN:N	2.43	0.48
1:Q:316:TRP:O	1:Q:317:MET:C	2.54	0.48
1:R:185:ASN:O	1:R:189:ASN:N	2.46	0.47
1:L:185:ASN:O	1:L:189:ASN:N	2.48	0.47
1:D:316:TRP:O	1:D:317:MET:C	2.56	0.47
1:E:284:ASP:C	1:E:286:ARG:H	2.22	0.47
1:P:212:TRP:O	1:P:216:HIS:N	2.48	0.47
1:O:187:MET:O	1:O:191:VAL:N	2.48	0.46
1:A:311:GLN:O	1:A:312:GLU:C	2.55	0.46
1:G:284:ASP:C	1:G:286:ARG:H	2.24	0.46
1:I:316:TRP:O	1:I:317:MET:C	2.55	0.46
1:I:180:THR:CA	1:I:259:GLY:HA3	2.47	0.45
1:I:180:THR:C	1:I:259:GLY:HA3	2.41	0.45
1:K:273:ILE:O	1:K:277:TYR:N	2.49	0.45
1:O:316:TRP:O	1:O:317:MET:C	2.56	0.45
1:B:316:TRP:O	1:B:317:MET:C	2.57	0.45
1:K:316:TRP:O	1:K:317:MET:C	2.54	0.45
1:B:272:LYS:O	1:B:276:MET:N	2.50	0.45
1:F:157:LYS:O	1:F:161:GLU:N	2.49	0.45
1:H:254:PRO:C	1:H:256:ILE:H	2.24	0.45
1:R:229:ARG:O	1:R:230:GLU:C	2.60	0.45
1:G:297:VAL:O	1:G:301:ALA:N	2.49	0.45
1:K:293:PHE:C	1:K:296:TYR:H	2.25	0.45
1:R:212:TRP:O	1:R:216:HIS:N	2.50	0.45
1:D:272:LYS:O	1:D:276:MET:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:173:SER:C	1:M:176:SER:H	2.25	0.44
1:M:297:VAL:O	1:M:301:ALA:N	2.51	0.44
1:P:324:GLN:C	1:P:326:ALA:H	2.25	0.44
1:M:165:SER:C	1:M:167:GLU:H	2.26	0.44
1:F:316:TRP:O	1:F:317:MET:C	2.57	0.43
1:A:316:TRP:O	1:A:317:MET:C	2.58	0.43
1:E:228:MET:O	1:E:229:ARG:C	2.61	0.43
1:K:300:PHE:O	1:K:304:LEU:N	2.46	0.43
1:B:185:ASN:O	1:B:189:ASN:N	2.51	0.43
1:L:212:TRP:O	1:L:216:HIS:N	2.51	0.43
1:H:212:TRP:O	1:H:216:HIS:N	2.51	0.43
1:H:295:ASP:O	1:H:299:ARG:N	2.50	0.43
1:D:311:GLN:O	1:D:312:GLU:C	2.56	0.43
1:N:212:TRP:O	1:N:216:HIS:N	2.52	0.43
1:P:300:PHE:O	1:P:304:LEU:N	2.48	0.43
1:K:212:TRP:O	1:K:216:HIS:N	2.52	0.43
1:M:166:PRO:C	1:M:168:VAL:H	2.27	0.42
1:P:347:MET:O	1:P:351:GLN:N	2.52	0.42
1:A:333:ILE:O	1:A:337:LEU:N	2.53	0.42
1:C:316:TRP:O	1:C:317:MET:C	2.57	0.42
1:K:297:VAL:O	1:K:301:ALA:N	2.49	0.42
1:M:176:SER:C	1:M:178:GLY:H	2.27	0.42
1:D:249:TRP:C	1:D:252:HIS:H	2.27	0.42
1:J:293:PHE:O	1:J:296:TYR:N	2.52	0.42
1:P:298:ASP:C	1:P:301:ALA:H	2.28	0.42
1:Q:172:PHE:O	1:Q:176:SER:N	2.52	0.42
1:Q:187:MET:O	1:Q:191:VAL:N	2.53	0.42
1:A:149:PRO:O	1:A:153:ASN:N	2.52	0.42
1:E:153:ASN:O	1:E:157:LYS:N	2.53	0.42
1:G:212:TRP:O	1:G:216:HIS:N	2.53	0.42
1:M:170:PRO:O	1:M:174:ALA:N	2.51	0.42
1:F:153:ASN:O	1:F:157:LYS:N	2.53	0.42
1:G:173:SER:C	1:G:176:SER:H	2.28	0.42
1:B:303:THR:O	1:B:307:GLU:N	2.53	0.42
1:N:181:PRO:O	1:N:185:ASN:N	2.45	0.42
1:N:185:ASN:O	1:N:189:ASN:N	2.52	0.42
1:N:295:ASP:O	1:N:296:TYR:C	2.60	0.42
1:R:249:TRP:C	1:R:252:HIS:H	2.28	0.42
1:A:287:GLN:H	1:A:326:ALA:CA	2.33	0.41
1:B:314:LYS:O	1:B:315:ASN:C	2.60	0.41
1:H:181:PRO:O	1:H:185:ASN:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:288:GLY:O	1:J:289:PRO:O	2.38	0.41
1:D:246:GLN:O	1:D:249:TRP:N	2.53	0.41
1:B:284:ASP:C	1:B:286:ARG:H	2.28	0.41
1:C:233:GLY:O	1:C:237:ALA:N	2.53	0.41
1:C:311:GLN:O	1:C:312:GLU:C	2.59	0.41
1:G:196:ALA:O	1:G:197:ALA:C	2.60	0.41
1:O:218:VAL:C	1:O:220:ALA:H	2.28	0.41
1:A:246:GLN:O	1:A:249:TRP:N	2.53	0.41
1:D:243:LEU:O	1:D:244:GLN:C	2.62	0.41
1:E:159:VAL:O	1:E:163:ALA:N	2.53	0.41
1:E:295:ASP:O	1:E:299:ARG:N	2.53	0.41
1:G:300:PHE:O	1:G:304:LEU:N	2.48	0.41
1:B:159:VAL:O	1:B:163:ALA:N	2.53	0.41
1:J:212:TRP:O	1:J:216:HIS:N	2.54	0.41
1:M:300:PHE:O	1:M:304:LEU:N	2.48	0.41
1:M:327:ASN:O	1:M:328:PRO:C	2.63	0.41
1:F:243:LEU:O	1:F:244:GLN:C	2.62	0.41
1:H:348:THR:C	1:H:351:GLN:H	2.29	0.41
1:M:316:TRP:O	1:M:317:MET:C	2.55	0.41
1:A:153:ASN:O	1:A:157:LYS:N	2.54	0.41
1:E:185:ASN:O	1:E:189:ASN:N	2.54	0.41
1:K:289:PRO:C	1:K:291:GLU:H	2.29	0.41
1:A:259:GLY:O	1:A:263:LYS:N	2.54	0.40
1:Q:212:TRP:O	1:Q:216:HIS:N	2.53	0.40
1:R:333:ILE:O	1:R:337:LEU:N	2.54	0.40
1:A:249:TRP:C	1:A:252:HIS:H	2.29	0.40
1:D:180:THR:C	1:D:259:GLY:HA3	2.47	0.40
1:M:212:TRP:O	1:M:216:HIS:N	2.54	0.40
1:M:269:GLY:O	1:M:270:LEU:C	2.63	0.40
1:P:333:ILE:O	1:P:337:LEU:N	2.53	0.40
1:D:172:PHE:O	1:D:176:SER:N	2.55	0.40
1:E:149:PRO:O	1:E:153:ASN:N	2.52	0.40
1:E:333:ILE:O	1:E:337:LEU:N	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	208/210 (99%)	168 (81%)	20 (10%)	20 (10%)	0	7
1	B	208/210 (99%)	170 (82%)	23 (11%)	15 (7%)	1	11
1	C	208/210 (99%)	167 (80%)	24 (12%)	17 (8%)	0	9
1	D	208/210 (99%)	169 (81%)	19 (9%)	20 (10%)	0	7
1	E	208/210 (99%)	169 (81%)	22 (11%)	17 (8%)	0	9
1	F	208/210 (99%)	170 (82%)	25 (12%)	13 (6%)	1	13
1	G	208/210 (99%)	176 (85%)	21 (10%)	11 (5%)	1	15
1	H	208/210 (99%)	174 (84%)	17 (8%)	17 (8%)	0	9
1	I	208/210 (99%)	169 (81%)	24 (12%)	15 (7%)	1	11
1	J	208/210 (99%)	173 (83%)	17 (8%)	18 (9%)	0	9
1	K	208/210 (99%)	171 (82%)	18 (9%)	19 (9%)	0	8
1	L	208/210 (99%)	173 (83%)	20 (10%)	15 (7%)	1	11
1	M	208/210 (99%)	176 (85%)	17 (8%)	15 (7%)	1	11
1	N	208/210 (99%)	179 (86%)	20 (10%)	9 (4%)	2	17
1	O	208/210 (99%)	168 (81%)	28 (14%)	12 (6%)	1	14
1	P	208/210 (99%)	177 (85%)	13 (6%)	18 (9%)	0	9
1	Q	208/210 (99%)	178 (86%)	15 (7%)	15 (7%)	1	11
1	R	208/210 (99%)	177 (85%)	11 (5%)	20 (10%)	0	7
All	All	3744/3780 (99%)	3104 (83%)	354 (10%)	286 (8%)	1	10

All (286) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	144	HIS
1	A	147	ILE
1	A	167	GLU
1	A	179	ALA

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Mol	Chain	Res	Type
1	A	225	PRO
1	A	227	GLN
1	A	279	PRO
1	A	280	THR
1	A	288	GLY
1	A	289	PRO
1	A	308	GLN
1	A	309	ALA
1	B	144	HIS
1	B	179	ALA
1	B	218	VAL
1	B	225	PRO
1	B	279	PRO
1	B	280	THR
1	B	281	SER
1	C	147	ILE
1	C	225	PRO
1	C	226	GLY
1	C	229	ARG
1	C	255	PRO
1	C	279	PRO
1	C	280	THR
1	C	281	SER
1	C	286	ARG
1	D	147	ILE
1	D	225	PRO
1	D	228	MET
1	D	240	THR
1	D	279	PRO
1	D	280	THR
1	D	308	GLN
1	E	167	GLU
1	E	216	HIS
1	E	218	VAL
1	E	225	PRO
1	E	239	THR
1	E	280	THR
1	E	289	PRO
1	F	279	PRO
1	F	280	THR
1	F	289	PRO
1	G	179	ALA

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Mol	Chain	Res	Type
1	G	257	PRO
1	G	279	PRO
1	G	280	THR
1	G	326	ALA
1	H	147	ILE
1	H	217	PRO
1	H	229	ARG
1	H	289	PRO
1	H	309	ALA
1	H	323	VAL
1	H	339	PRO
1	I	225	PRO
1	I	226	GLY
1	I	279	PRO
1	I	280	THR
1	I	281	SER
1	I	309	ALA
1	J	144	HIS
1	J	179	ALA
1	J	216	HIS
1	J	279	PRO
1	J	289	PRO
1	K	146	ALA
1	K	216	HIS
1	K	279	PRO
1	K	280	THR
1	K	281	SER
1	K	289	PRO
1	K	292	PRO
1	L	147	ILE
1	L	166	PRO
1	L	179	ALA
1	L	220	ALA
1	L	229	ARG
1	L	289	PRO
1	M	225	PRO
1	M	279	PRO
1	M	280	THR
1	M	292	PRO
1	N	147	ILE
1	N	229	ARG
1	N	231	PRO

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Mol	Chain	Res	Type
1	N	279	PRO
1	N	289	PRO
1	N	309	ALA
1	O	225	PRO
1	O	228	MET
1	O	229	ARG
1	O	276	MET
1	O	279	PRO
1	O	280	THR
1	O	309	ALA
1	P	147	ILE
1	P	164	PHE
1	P	165	SER
1	P	166	PRO
1	P	217	PRO
1	P	279	PRO
1	P	289	PRO
1	P	308	GLN
1	P	309	ALA
1	Q	225	PRO
1	Q	228	MET
1	Q	279	PRO
1	Q	280	THR
1	Q	309	ALA
1	R	145	GLN
1	R	147	ILE
1	R	165	SER
1	R	166	PRO
1	R	179	ALA
1	R	217	PRO
1	R	220	ALA
1	R	222	PRO
1	R	289	PRO
1	A	226	GLY
1	A	281	SER
1	A	326	ALA
1	B	226	GLY
1	B	227	GLN
1	B	289	PRO
1	B	326	ALA
1	C	145	GLN
1	C	167	GLU

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Mol	Chain	Res	Type
1	C	217	PRO
1	D	220	ALA
1	D	226	GLY
1	D	281	SER
1	D	288	GLY
1	D	289	PRO
1	E	147	ILE
1	E	230	GLU
1	E	288	GLY
1	F	144	HIS
1	F	179	ALA
1	F	241	SER
1	G	229	ARG
1	G	285	ILE
1	H	144	HIS
1	H	179	ALA
1	H	252	HIS
1	H	279	PRO
1	H	280	THR
1	I	288	GLY
1	J	147	ILE
1	J	220	ALA
1	J	228	MET
1	J	229	ARG
1	K	177	GLU
1	K	228	MET
1	K	310	SER
1	K	342	THR
1	L	225	PRO
1	L	341	ALA
1	M	257	PRO
1	N	310	SER
1	O	193	GLY
1	O	226	GLY
1	P	218	VAL
1	P	226	GLY
1	Q	177	GLU
1	Q	229	ARG
1	Q	288	GLY
1	Q	289	PRO
1	R	178	GLY
1	R	221	GLY

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Mol	Chain	Res	Type
1	R	229	ARG
1	R	279	PRO
1	A	222	PRO
1	A	310	SER
1	B	166	PRO
1	C	227	GLN
1	C	289	PRO
1	D	179	ALA
1	D	231	PRO
1	D	310	SER
1	E	229	ARG
1	F	177	GLU
1	F	229	ARG
1	F	281	SER
1	F	292	PRO
1	F	339	PRO
1	G	240	THR
1	G	292	PRO
1	H	292	PRO
1	I	220	ALA
1	I	231	PRO
1	I	255	PRO
1	J	225	PRO
1	J	255	PRO
1	J	340	GLY
1	K	229	ARG
1	L	279	PRO
1	L	340	GLY
1	M	143	VAL
1	M	228	MET
1	M	252	HIS
1	O	231	PRO
1	O	339	PRO
1	P	143	VAL
1	P	257	PRO
1	P	291	GLU
1	Q	167	GLU
1	Q	239	THR
1	R	167	GLU
1	R	255	PRO
1	R	310	SER
1	A	229	ARG

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Mol	Chain	Res	Type
1	B	147	ILE
1	B	229	ARG
1	C	179	ALA
1	C	230	GLU
1	C	257	PRO
1	E	341	ALA
1	G	230	GLU
1	H	192	GLY
1	H	256	ILE
1	I	192	GLY
1	I	240	THR
1	J	166	PRO
1	J	276	MET
1	K	241	SER
1	K	257	PRO
1	L	276	MET
1	M	178	GLY
1	M	310	SER
1	M	339	PRO
1	P	254	PRO
1	Q	257	PRO
1	R	254	PRO
1	R	292	PRO
1	A	257	PRO
1	D	180	THR
1	E	231	PRO
1	F	217	PRO
1	G	167	GLU
1	H	167	GLU
1	I	167	GLU
1	I	285	ILE
1	J	281	SER
1	J	310	SER
1	K	227	GLN
1	K	255	PRO
1	L	255	PRO
1	L	257	PRO
1	M	230	GLU
1	M	323	VAL
1	N	341	ALA
1	P	216	HIS
1	P	310	SER

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Mol	Chain	Res	Type
1	P	339	PRO
1	Q	227	GLN
1	Q	240	THR
1	A	339	PRO
1	E	193	GLY
1	E	217	PRO
1	E	257	PRO
1	J	291	GLU
1	K	143	VAL
1	K	256	ILE
1	L	143	VAL
1	L	232	ARG
1	M	218	VAL
1	M	220	ALA
1	O	218	VAL
1	B	285	ILE
1	D	230	GLU
1	D	257	PRO
1	E	285	ILE
1	D	193	GLY
1	F	147	ILE
1	I	289	PRO
1	J	230	GLU
1	K	339	PRO
1	R	223	ILE
1	H	230	GLU
1	N	230	GLU
1	Q	230	GLU
1	R	216	HIS
1	D	218	VAL

5.3.2 Protein sidechains ⓘ

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 [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

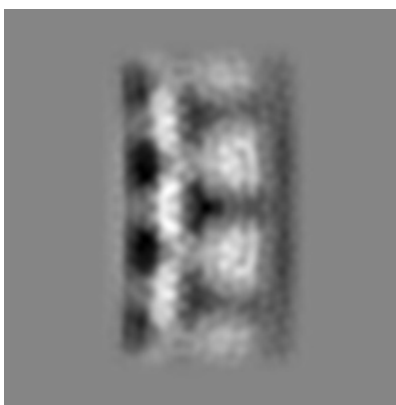
6 Tomogram visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2706. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

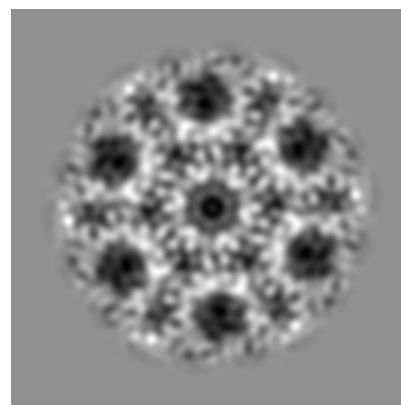
6.1 Orthogonal projections [i](#)



X



Y



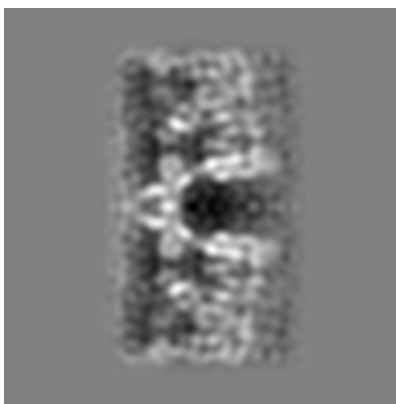
Z

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

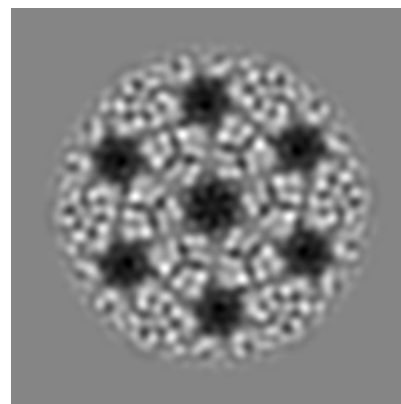
6.2 Central slices [i](#)



X Index: 70



Y Index: 70



Z Index: 70

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

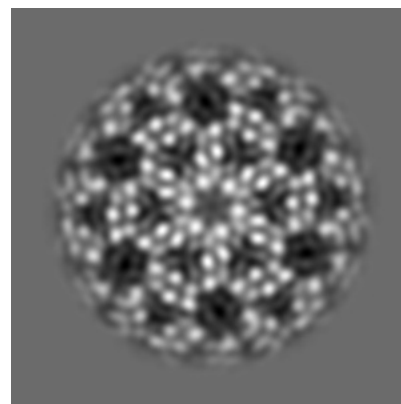
6.3 Largest variance slices [i](#)



X Index: 69



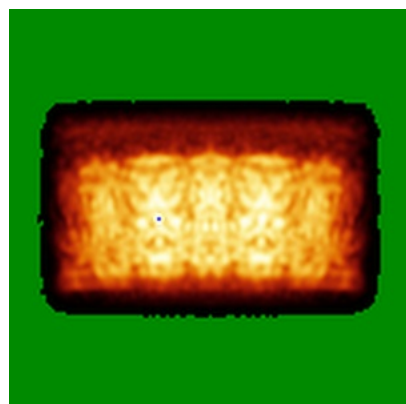
Y Index: 52



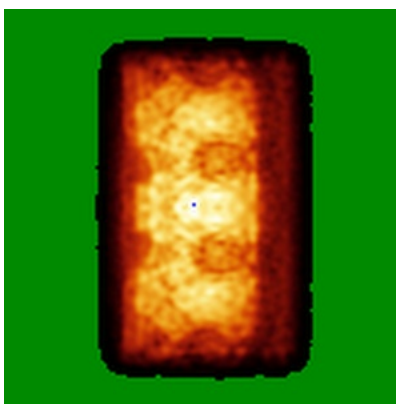
Z Index: 62

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

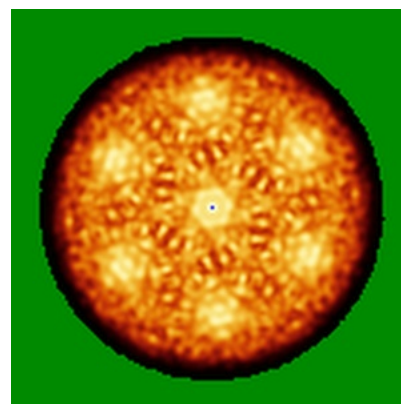
6.4 Orthogonal standard-deviation projections (False-color) [i](#)



X



Y



Z

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

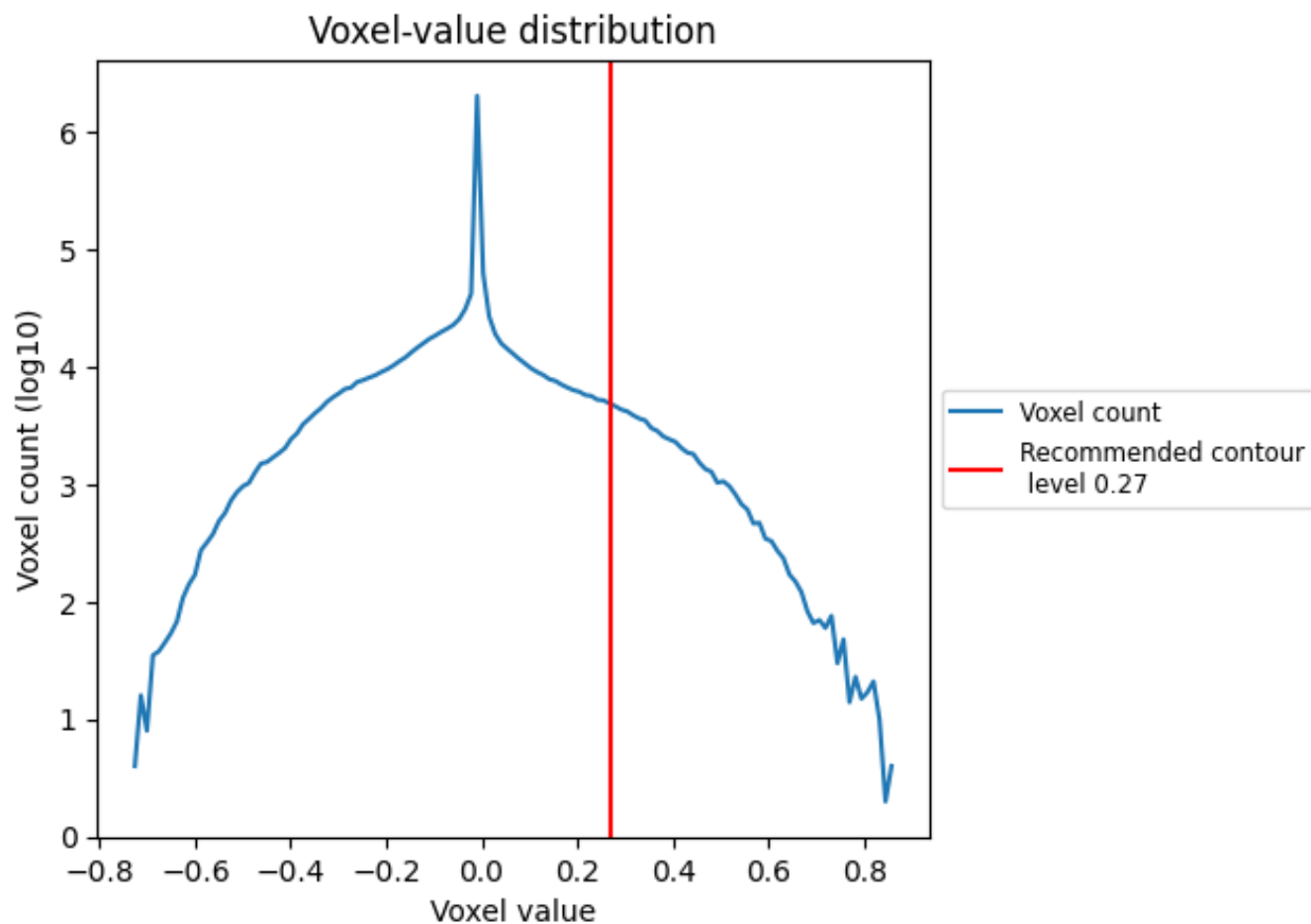
6.5 Mask visualisation [i](#)

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

7 Tomogram analysis [i](#)

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

7.1 Voxel-value distribution [i](#)



The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.

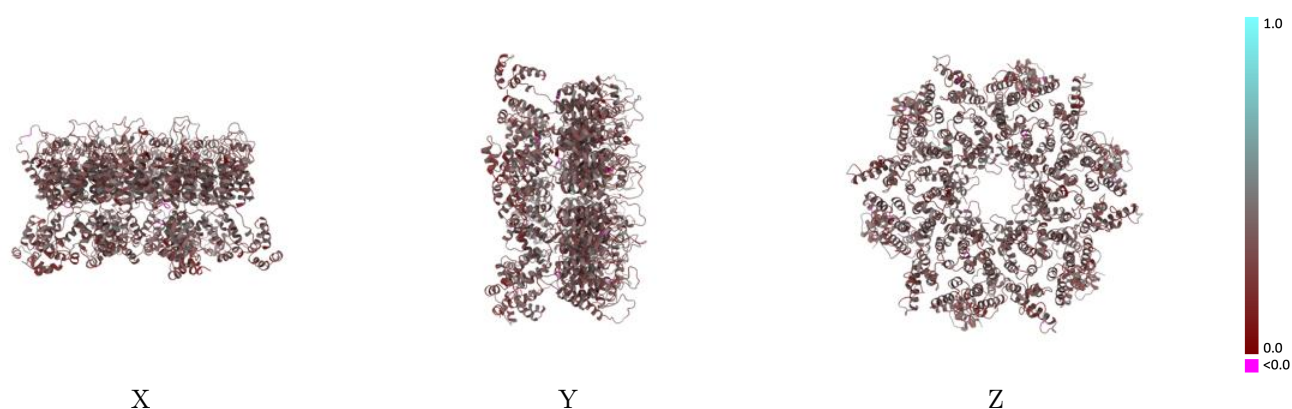
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-2706 and PDB model 4USN. Per-residue inclusion information can be found in section 3 on page 7.

8.1 Map-model overlay [i](#)

This section was not generated.

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

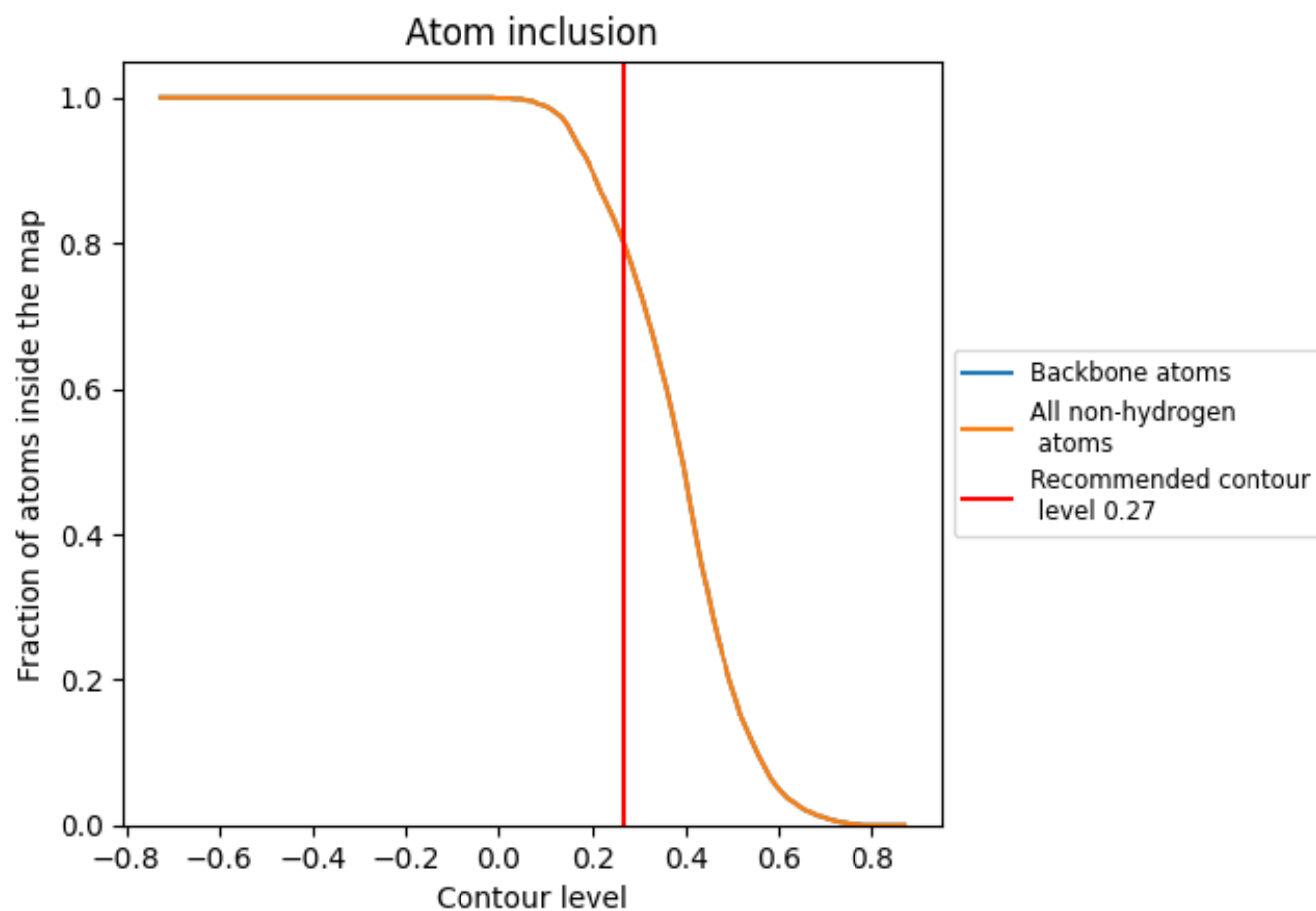


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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

This section was not generated.

8.4 Atom inclusion [i](#)



At the recommended contour level, 80% of all backbone atoms, 80% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.27) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.7980	 0.3140
A	 0.8110	 0.3180
B	 0.8040	 0.3190
C	 0.8080	 0.3240
D	 0.7990	 0.3240
E	 0.8160	 0.3200
F	 0.8010	 0.3220
G	 0.8120	 0.3180
H	 0.7790	 0.3070
I	 0.8020	 0.3130
J	 0.7810	 0.3080
K	 0.8010	 0.3150
L	 0.7740	 0.2990
M	 0.8090	 0.3230
N	 0.7880	 0.3080
O	 0.8080	 0.3120
P	 0.7800	 0.3020
Q	 0.7940	 0.3140
R	 0.7830	 0.3050

