



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 11:49 AM UTC

PDB ID : 5NZV / pdb_00005nzv
EMDB ID : EMD-3724
Title : The structure of the COPI coat linkage IV
Authors : Dodonova, S.O.; Aderhold, P.; Kopp, J.; Ganeva, I.; Roehling, S.; Hagen, W.J.H.; Sinning, I.; Wieland, F.; Briggs, J.A.G.
Deposited on : 2017-05-15
Resolution : 17.30 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

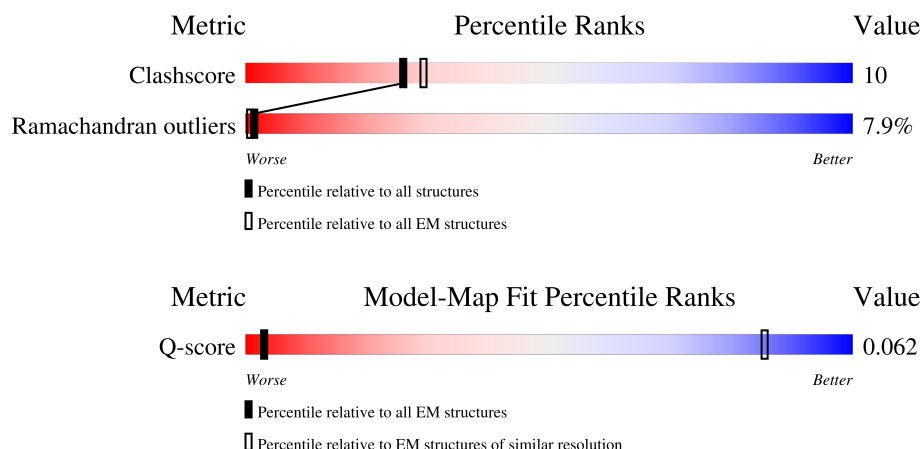
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 17.30 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	34 (16.80 - 17.60)

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

Mol	Chain	Length	Quality of chain
1	A	1262	
1	H	1262	
2	E	308	
2	O	308	
3	B	968	

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Mol	Chain	Length	Quality of chain
3	I	968	
4	C	905	
4	J	905	
5	D	511	
5	N	511	
6	F	181	
6	M	181	
6	P	181	
6	R	181	
6	T	181	
7	G	874	
7	K	874	
7	Q	874	
8	L	177	
8	S	177	
8	U	177	
8	Z	177	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 39958 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Coatomer subunit alpha.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	1126	Total	C	N	O	0	0
			4503	2252	1126	1125		
1	H	1126	Total	C	N	O	0	0
			4503	2252	1126	1125		

There are 76 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1225	LEU	-	expression tag	UNP Q8CIE6
A	1226	GLU	-	expression tag	UNP Q8CIE6
A	1227	VAL	-	expression tag	UNP Q8CIE6
A	1228	LEU	-	expression tag	UNP Q8CIE6
A	1229	PHE	-	expression tag	UNP Q8CIE6
A	1230	GLN	-	expression tag	UNP Q8CIE6
A	1231	GLY	-	expression tag	UNP Q8CIE6
A	1232	PRO	-	expression tag	UNP Q8CIE6
A	1233	SER	-	expression tag	UNP Q8CIE6
A	1234	ALA	-	expression tag	UNP Q8CIE6
A	1235	TRP	-	expression tag	UNP Q8CIE6
A	1236	SER	-	expression tag	UNP Q8CIE6
A	1237	HIS	-	expression tag	UNP Q8CIE6
A	1238	PRO	-	expression tag	UNP Q8CIE6
A	1239	GLN	-	expression tag	UNP Q8CIE6
A	1240	PHE	-	expression tag	UNP Q8CIE6
A	1241	GLU	-	expression tag	UNP Q8CIE6
A	1242	LYS	-	expression tag	UNP Q8CIE6
A	1243	GLY	-	expression tag	UNP Q8CIE6
A	1244	GLY	-	expression tag	UNP Q8CIE6
A	1245	GLY	-	expression tag	UNP Q8CIE6
A	1246	SER	-	expression tag	UNP Q8CIE6
A	1247	GLY	-	expression tag	UNP Q8CIE6
A	1248	GLY	-	expression tag	UNP Q8CIE6
A	1249	GLY	-	expression tag	UNP Q8CIE6
A	1250	SER	-	expression tag	UNP Q8CIE6

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1251	GLY	-	expression tag	UNP Q8CIE6
A	1252	GLY	-	expression tag	UNP Q8CIE6
A	1253	SER	-	expression tag	UNP Q8CIE6
A	1254	ALA	-	expression tag	UNP Q8CIE6
A	1255	TRP	-	expression tag	UNP Q8CIE6
A	1256	SER	-	expression tag	UNP Q8CIE6
A	1257	HIS	-	expression tag	UNP Q8CIE6
A	1258	PRO	-	expression tag	UNP Q8CIE6
A	1259	GLN	-	expression tag	UNP Q8CIE6
A	1260	PHE	-	expression tag	UNP Q8CIE6
A	1261	GLU	-	expression tag	UNP Q8CIE6
A	1262	LYS	-	expression tag	UNP Q8CIE6
H	1225	LEU	-	expression tag	UNP Q8CIE6
H	1226	GLU	-	expression tag	UNP Q8CIE6
H	1227	VAL	-	expression tag	UNP Q8CIE6
H	1228	LEU	-	expression tag	UNP Q8CIE6
H	1229	PHE	-	expression tag	UNP Q8CIE6
H	1230	GLN	-	expression tag	UNP Q8CIE6
H	1231	GLY	-	expression tag	UNP Q8CIE6
H	1232	PRO	-	expression tag	UNP Q8CIE6
H	1233	SER	-	expression tag	UNP Q8CIE6
H	1234	ALA	-	expression tag	UNP Q8CIE6
H	1235	TRP	-	expression tag	UNP Q8CIE6
H	1236	SER	-	expression tag	UNP Q8CIE6
H	1237	HIS	-	expression tag	UNP Q8CIE6
H	1238	PRO	-	expression tag	UNP Q8CIE6
H	1239	GLN	-	expression tag	UNP Q8CIE6
H	1240	PHE	-	expression tag	UNP Q8CIE6
H	1241	GLU	-	expression tag	UNP Q8CIE6
H	1242	LYS	-	expression tag	UNP Q8CIE6
H	1243	GLY	-	expression tag	UNP Q8CIE6
H	1244	GLY	-	expression tag	UNP Q8CIE6
H	1245	GLY	-	expression tag	UNP Q8CIE6
H	1246	SER	-	expression tag	UNP Q8CIE6
H	1247	GLY	-	expression tag	UNP Q8CIE6
H	1248	GLY	-	expression tag	UNP Q8CIE6
H	1249	GLY	-	expression tag	UNP Q8CIE6
H	1250	SER	-	expression tag	UNP Q8CIE6
H	1251	GLY	-	expression tag	UNP Q8CIE6
H	1252	GLY	-	expression tag	UNP Q8CIE6
H	1253	SER	-	expression tag	UNP Q8CIE6
H	1254	ALA	-	expression tag	UNP Q8CIE6

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Chain	Residue	Modelled	Actual	Comment	Reference
H	1255	TRP	-	expression tag	UNP Q8CIE6
H	1256	SER	-	expression tag	UNP Q8CIE6
H	1257	HIS	-	expression tag	UNP Q8CIE6
H	1258	PRO	-	expression tag	UNP Q8CIE6
H	1259	GLN	-	expression tag	UNP Q8CIE6
H	1260	PHE	-	expression tag	UNP Q8CIE6
H	1261	GLU	-	expression tag	UNP Q8CIE6
H	1262	LYS	-	expression tag	UNP Q8CIE6

- Molecule 2 is a protein called Coatomer subunit epsilon.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	E	292	Total	C	N	O	0	0
			1169	584	292	293		
2	O	292	Total	C	N	O	0	0
			1169	584	292	293		

- Molecule 3 is a protein called Coatomer subunit beta.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	B	800	Total	C	N	O	0	0
			3198	1600	800	798		
3	I	800	Total	C	N	O	0	0
			3198	1600	800	798		

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	1	MET	-	initiating methionine	UNP Q9JIF7
B	2	HIS	-	expression tag	UNP Q9JIF7
B	3	HIS	-	expression tag	UNP Q9JIF7
B	4	HIS	-	expression tag	UNP Q9JIF7
B	5	HIS	-	expression tag	UNP Q9JIF7
B	6	HIS	-	expression tag	UNP Q9JIF7
B	7	HIS	-	expression tag	UNP Q9JIF7
B	8	GLU	-	expression tag	UNP Q9JIF7
B	9	ASN	-	expression tag	UNP Q9JIF7
B	10	LEU	-	expression tag	UNP Q9JIF7
B	11	TYR	-	expression tag	UNP Q9JIF7
B	12	PHE	-	expression tag	UNP Q9JIF7
B	13	GLN	-	expression tag	UNP Q9JIF7
B	14	GLY	-	expression tag	UNP Q9JIF7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	15	HIS	-	expression tag	UNP Q9JIF7
I	1	MET	-	initiating methionine	UNP Q9JIF7
I	2	HIS	-	expression tag	UNP Q9JIF7
I	3	HIS	-	expression tag	UNP Q9JIF7
I	4	HIS	-	expression tag	UNP Q9JIF7
I	5	HIS	-	expression tag	UNP Q9JIF7
I	6	HIS	-	expression tag	UNP Q9JIF7
I	7	HIS	-	expression tag	UNP Q9JIF7
I	8	GLU	-	expression tag	UNP Q9JIF7
I	9	ASN	-	expression tag	UNP Q9JIF7
I	10	LEU	-	expression tag	UNP Q9JIF7
I	11	TYR	-	expression tag	UNP Q9JIF7
I	12	PHE	-	expression tag	UNP Q9JIF7
I	13	GLN	-	expression tag	UNP Q9JIF7
I	14	GLY	-	expression tag	UNP Q9JIF7
I	15	HIS	-	expression tag	UNP Q9JIF7

- Molecule 4 is a protein called Coatomer subunit beta'.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	C	843	Total	C	N	O	0	0
			3371	1686	843	842		
4	J	843	Total	C	N	O	0	0
			3371	1686	843	842		

- Molecule 5 is a protein called Coatomer subunit delta.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	D	427	Total	C	N	O	0	0
			1707	854	427	426		
5	N	177	Total	C	N	O	0	0
			706	354	177	175		

- Molecule 6 is a protein called ADP-ribosylation factor 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	F	159	Total	C	N	O	0	0
			635	318	159	158		
6	R	159	Total	C	N	O	0	0
			635	318	159	158		
6	M	159	Total	C	N	O	0	0
			635	318	159	158		

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Mol	Chain	Residues	Atoms				AltConf	Trace
6	P	159	Total	C	N	O	0	0
			635	318	159	158		
6	T	159	Total	C	N	O	0	0
			635	318	159	158		

- Molecule 7 is a protein called Coatomer subunit gamma-1.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	G	798	Total	C	N	O	0	0
			3190	1596	798	796		
7	K	560	Total	C	N	O	0	0
			2239	1120	560	559		
7	Q	560	Total	C	N	O	0	0
			2239	1120	560	559		

- Molecule 8 is a protein called Coatomer subunit zeta-1.

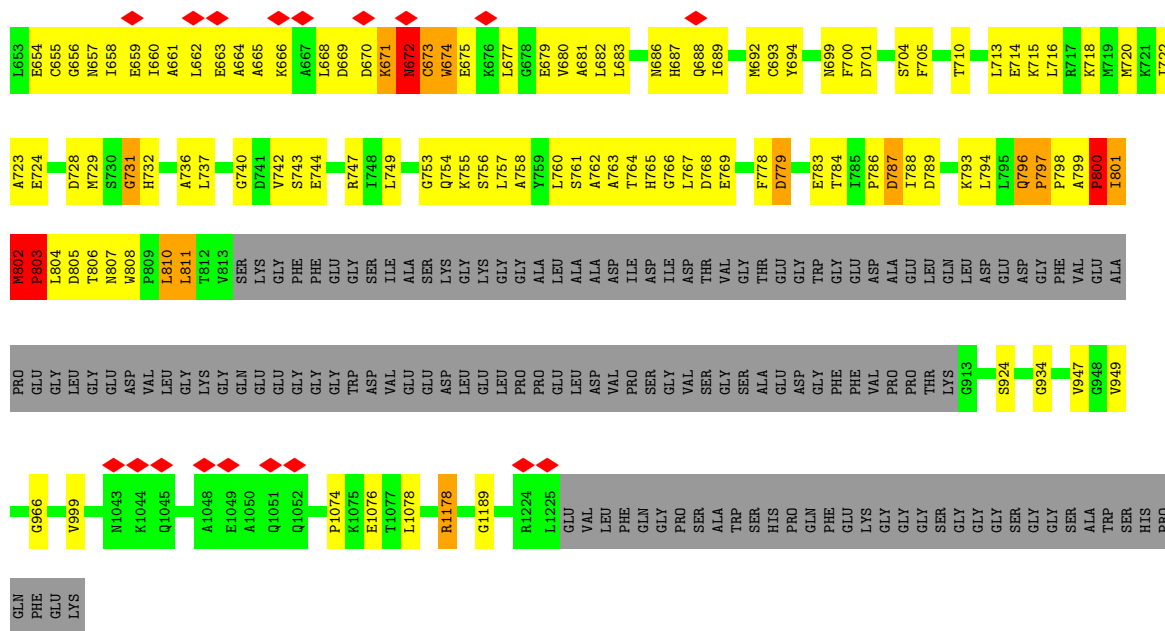
Mol	Chain	Residues	Atoms				AltConf	Trace
8	Z	139	Total	C	N	O	0	0
			555	278	139	138		
8	L	139	Total	C	N	O	0	0
			555	278	139	138		
8	U	139	Total	C	N	O	0	0
			555	278	139	138		
8	S	139	Total	C	N	O	0	0
			555	278	139	138		

3 Residue-property plots

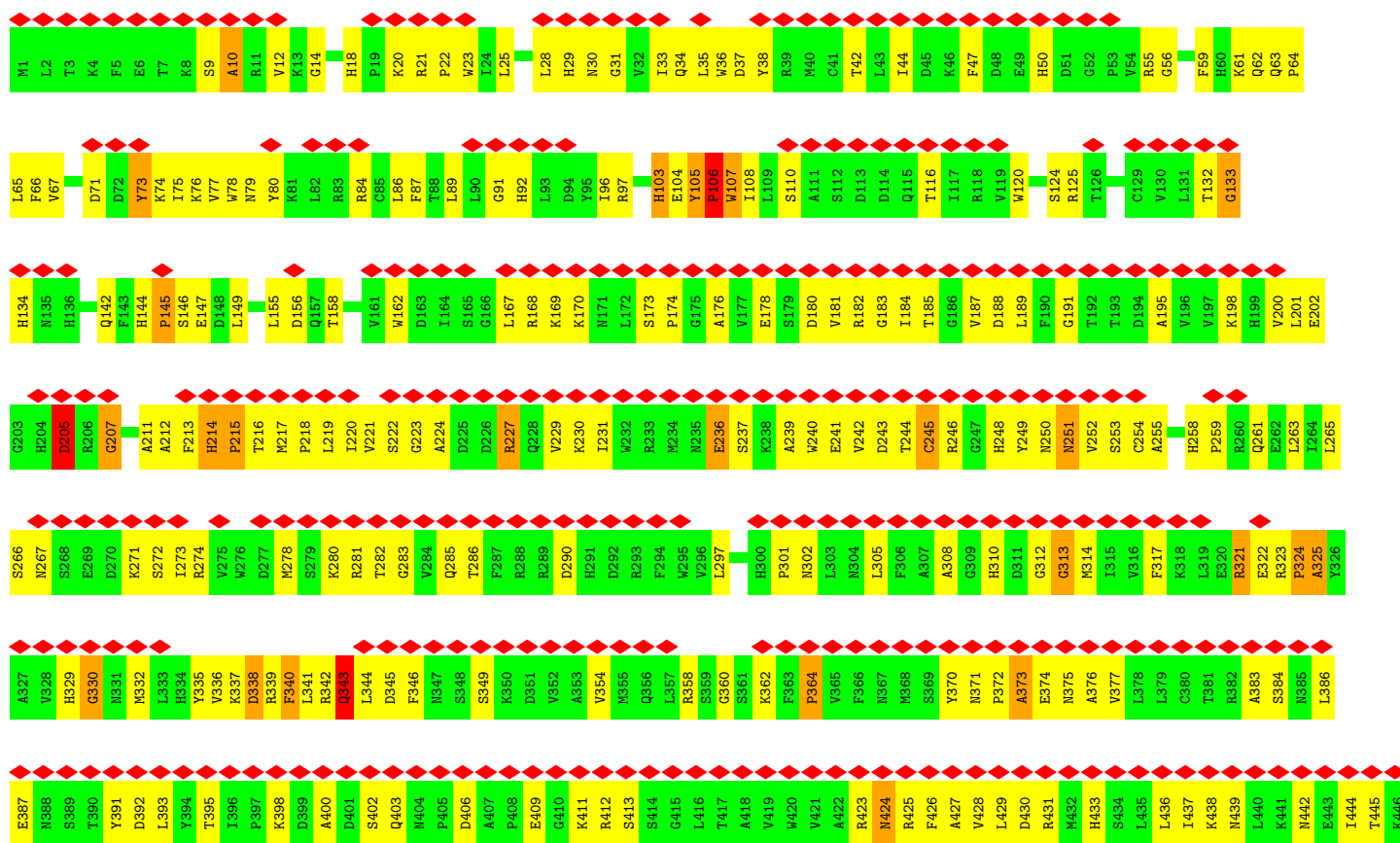
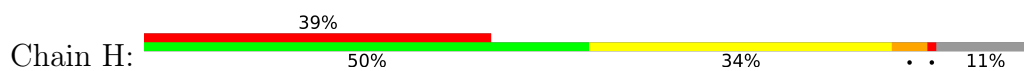
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

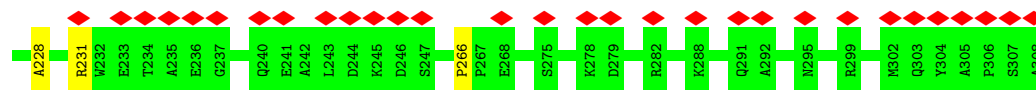
• Molecule 1: Coatomer subunit alpha



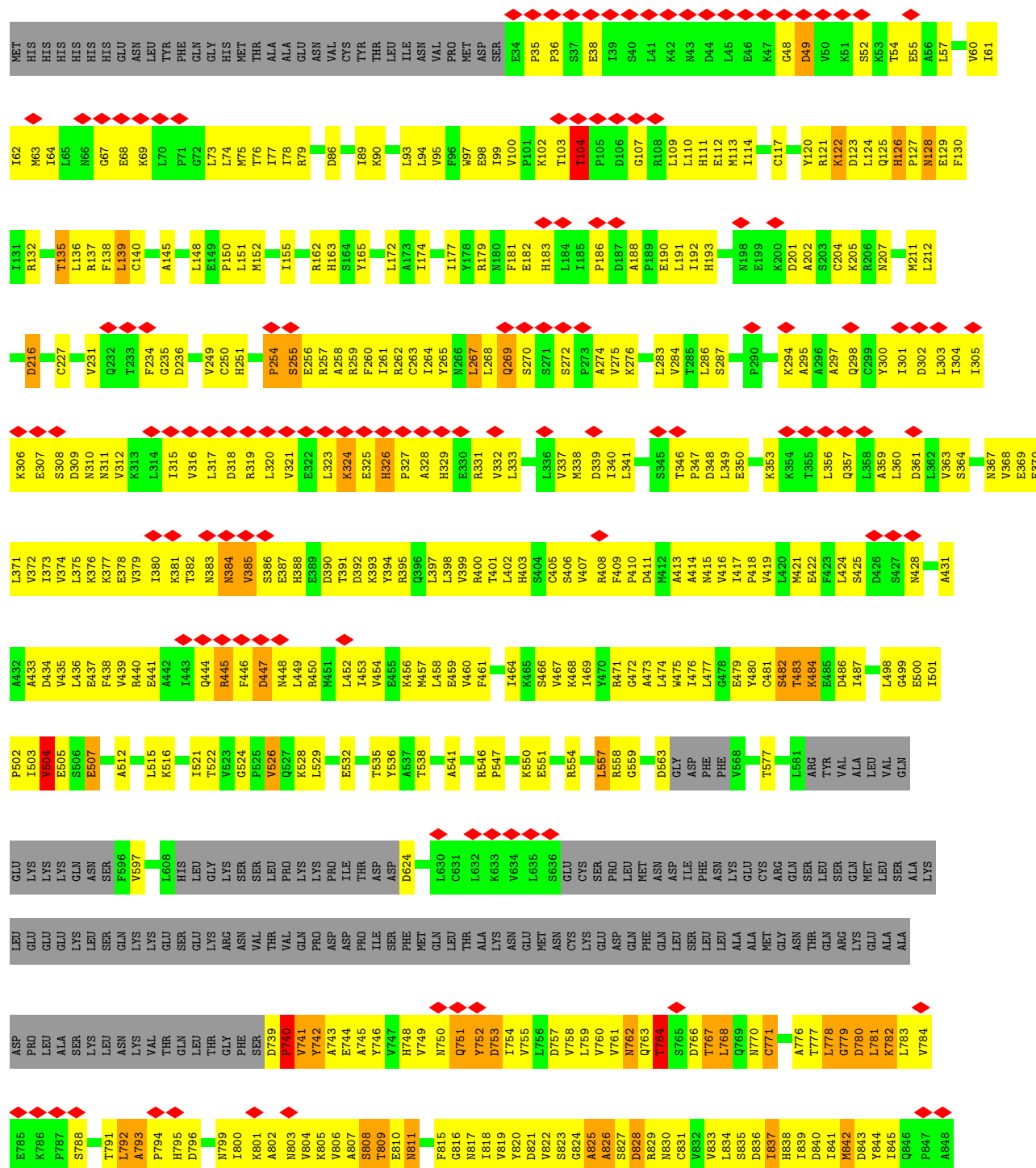


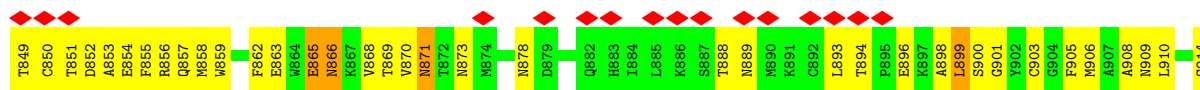
• Molecule 1: Coatomer subunit alpha



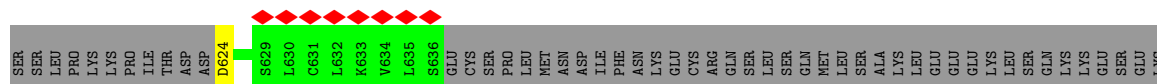
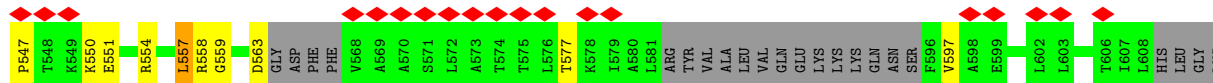
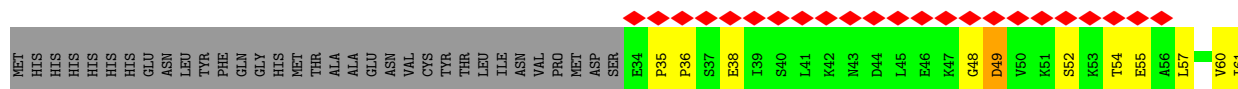


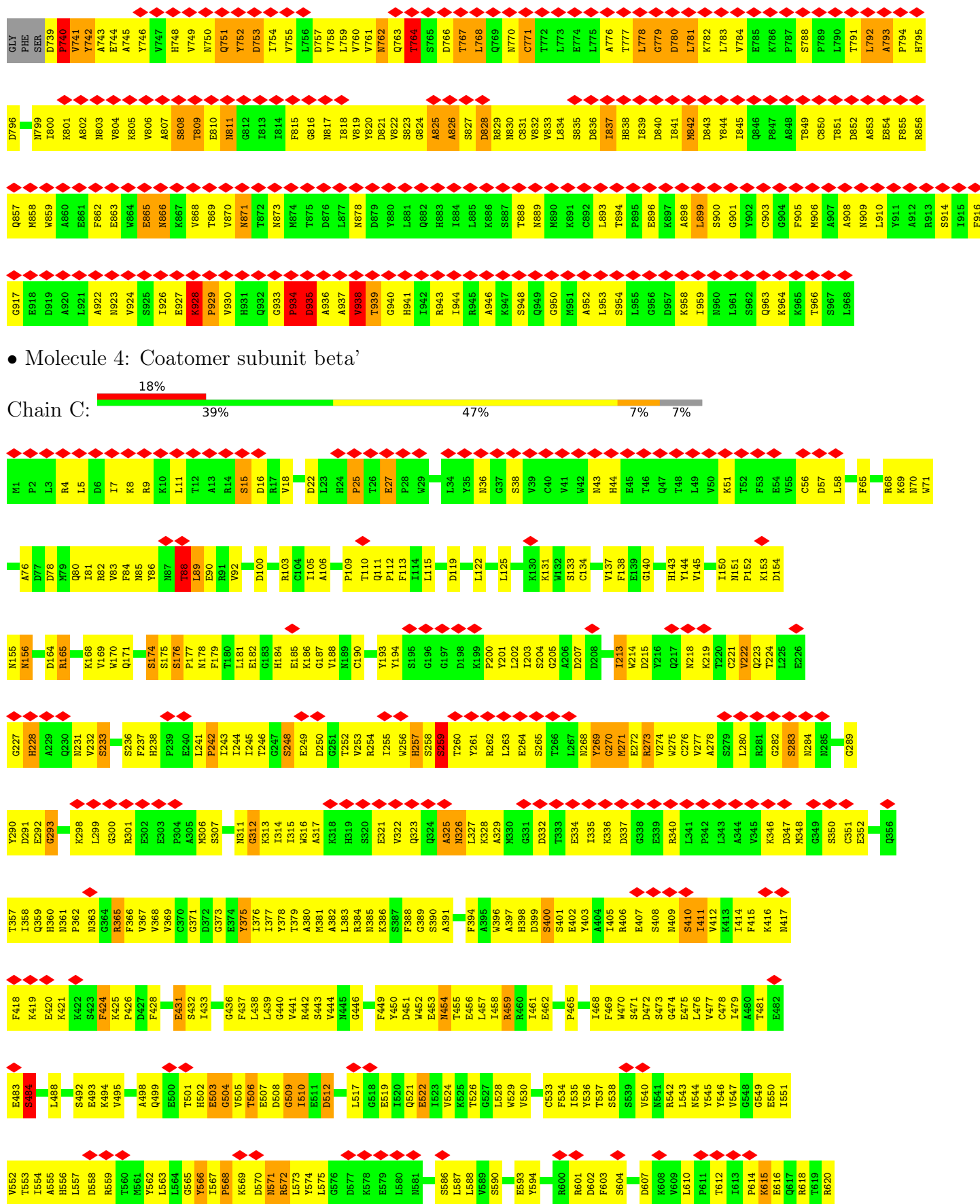
• Molecule 3: Coatomer subunit beta

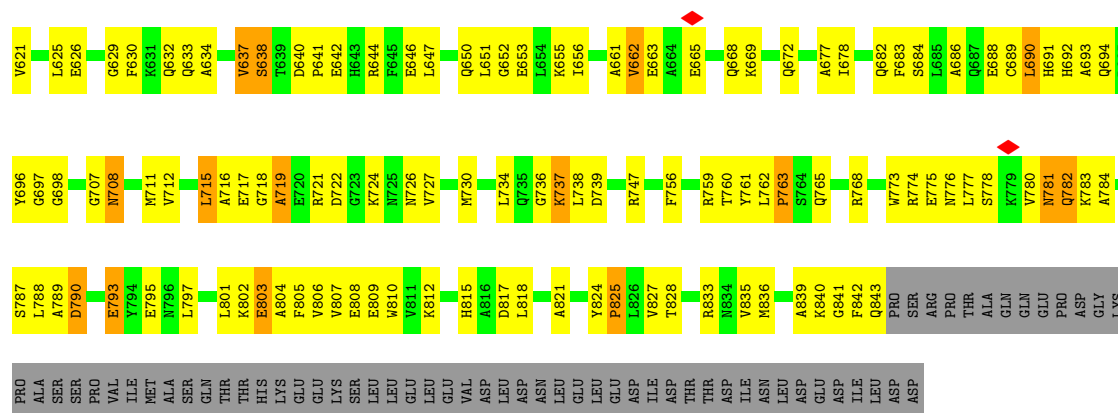




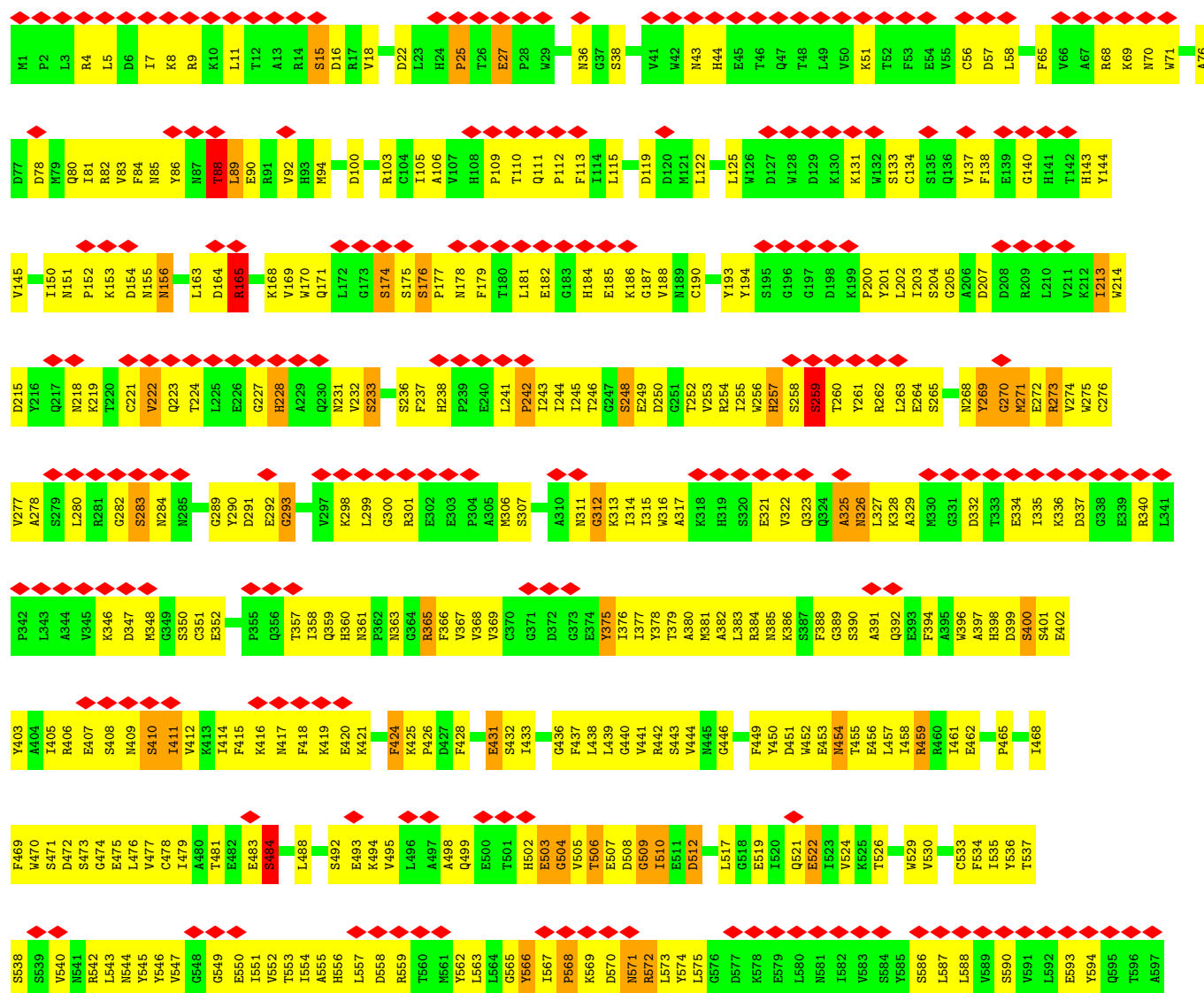
• Molecule 3: Coatomer subunit beta

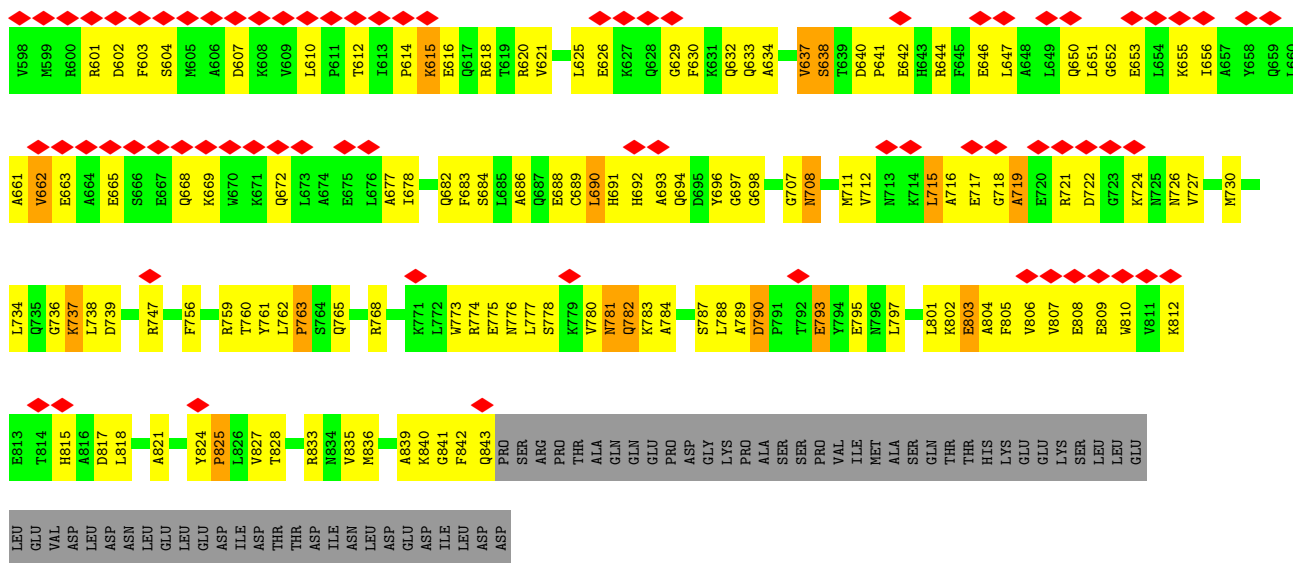




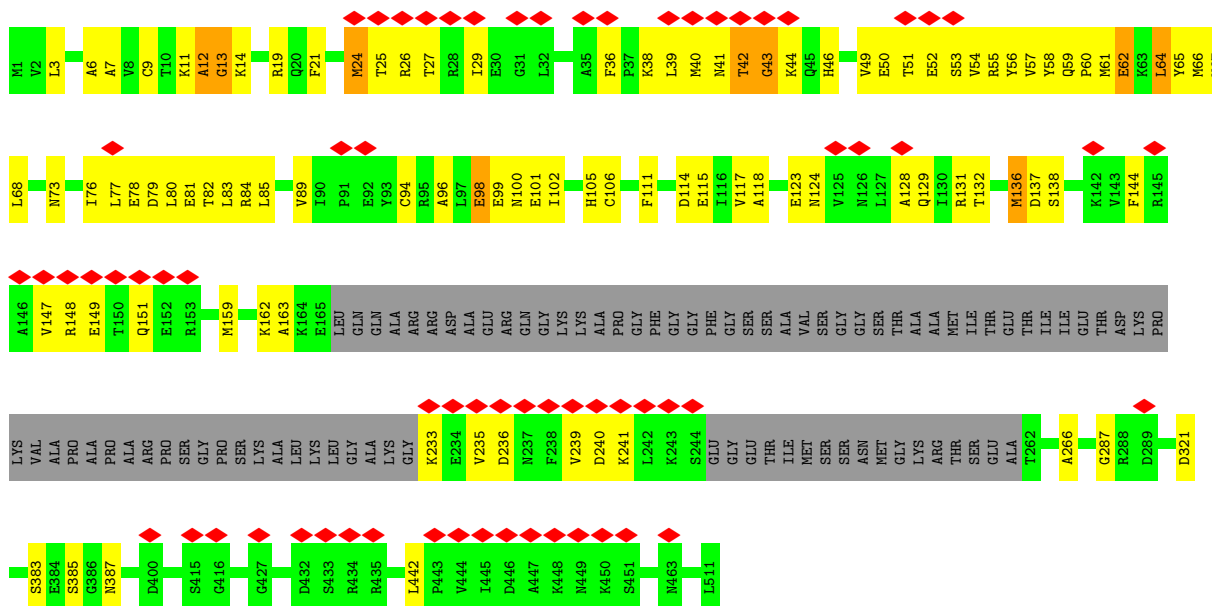


● Molecule 4: Coatomer subunit beta'

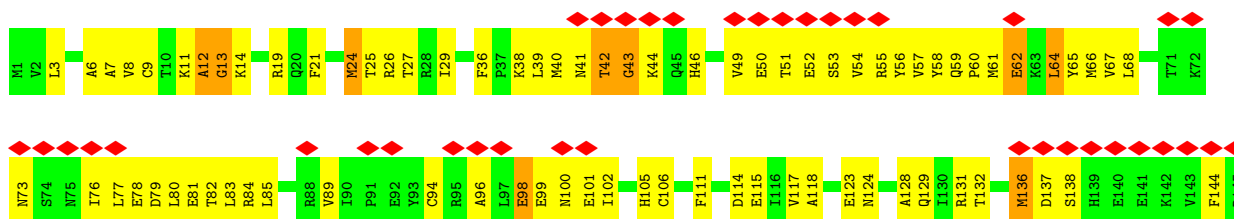


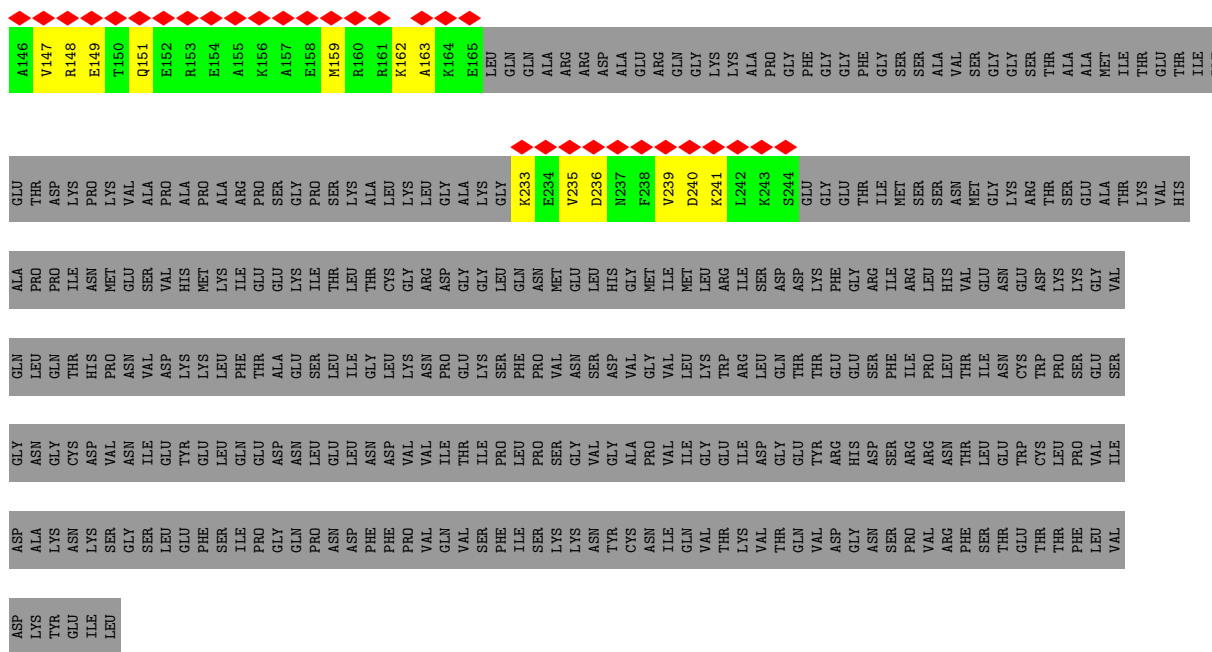


• Molecule 5: Coatomer subunit delta

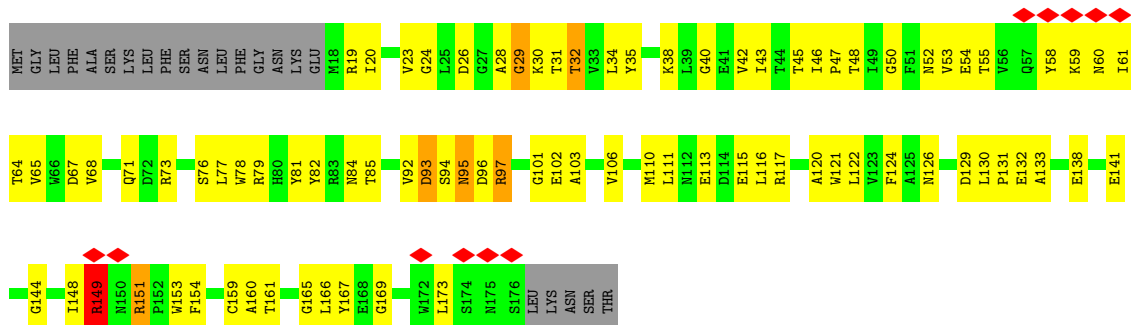


• Molecule 5: Coatomer subunit delta

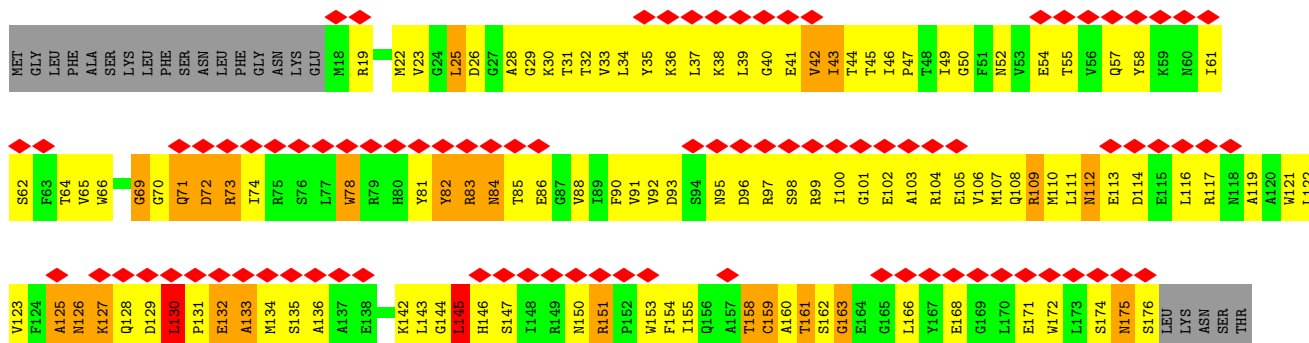




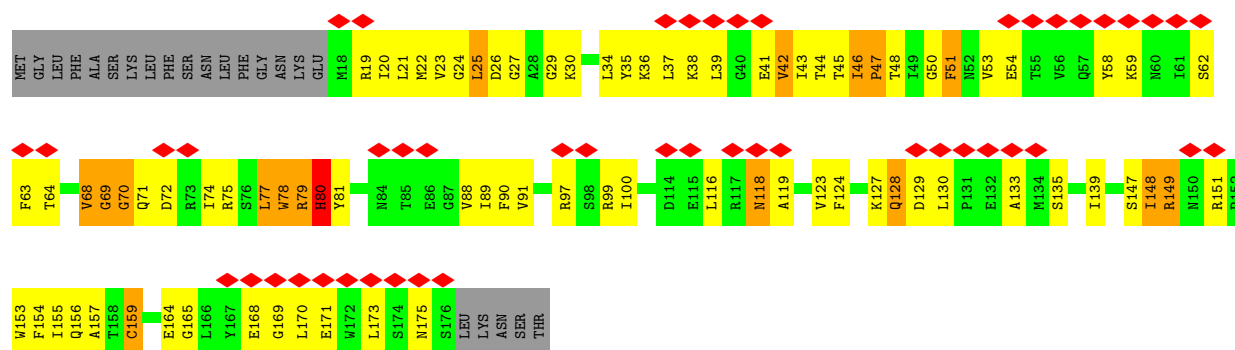
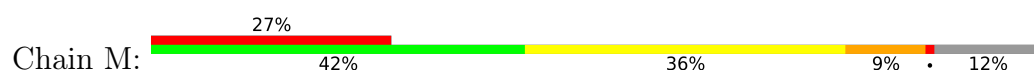
• Molecule 6: ADP-ribosylation factor 1



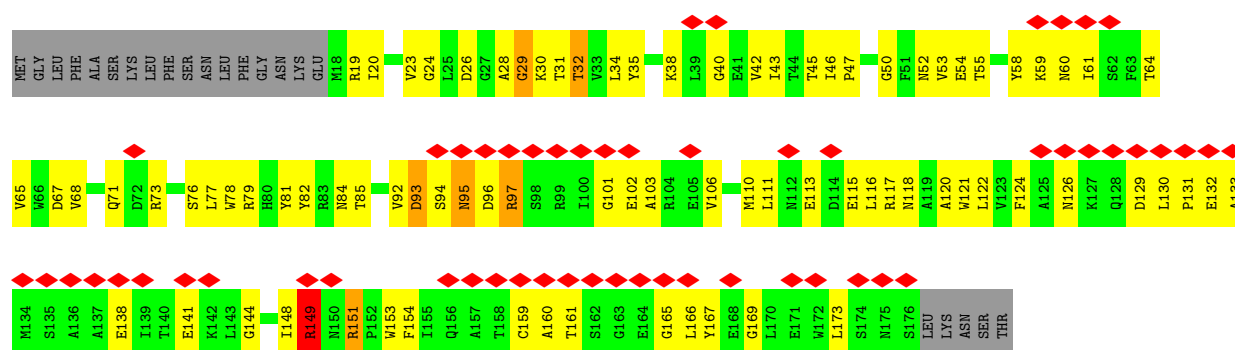
• Molecule 6: ADP-ribosylation factor 1



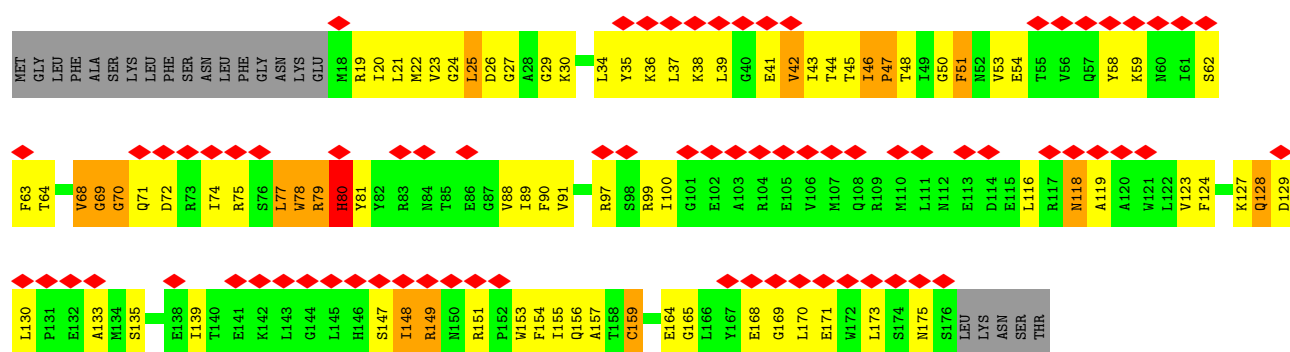
• Molecule 6: ADP-ribosylation factor 1



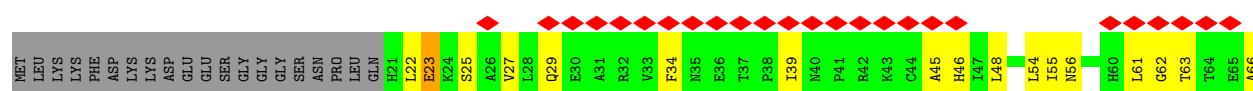
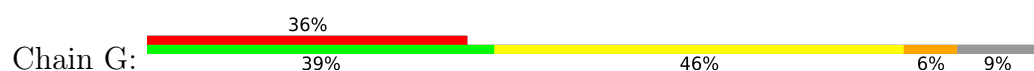
- Molecule 6: ADP-ribosylation factor 1

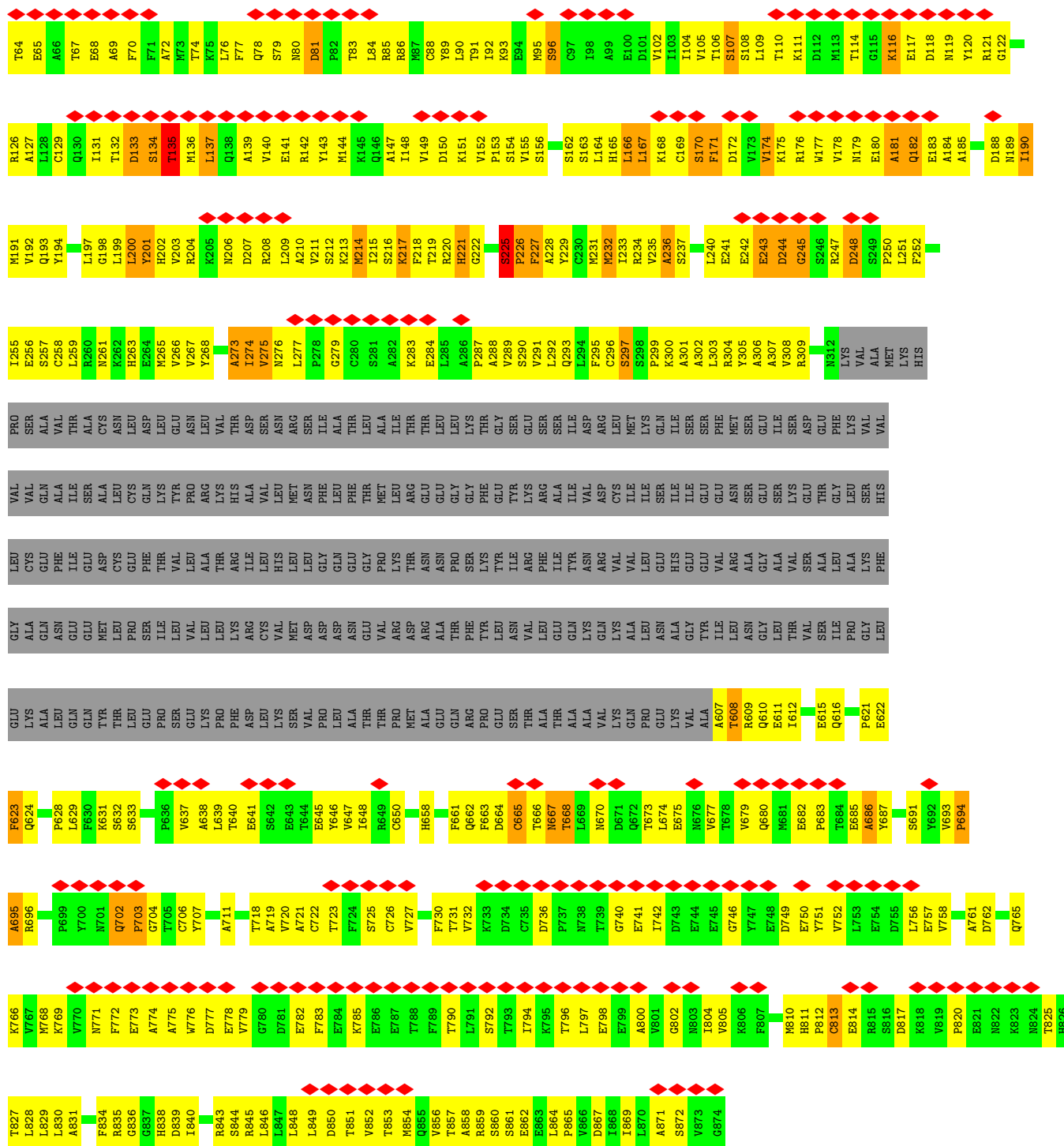


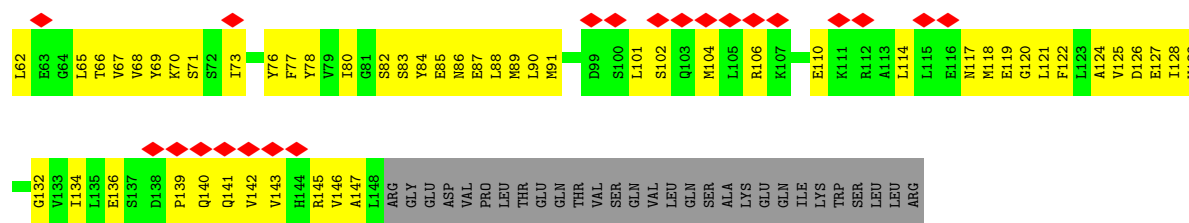
- Molecule 6: ADP-ribosylation factor 1



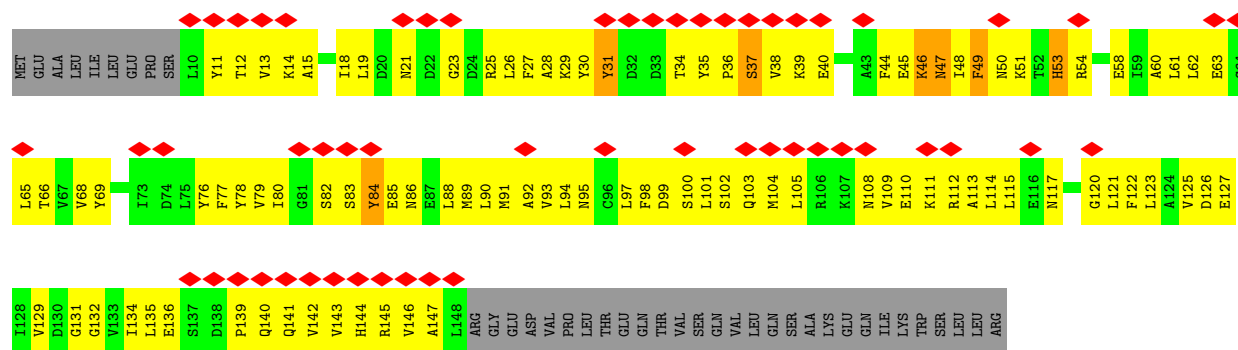
- Molecule 7: Coatomer subunit gamma-1



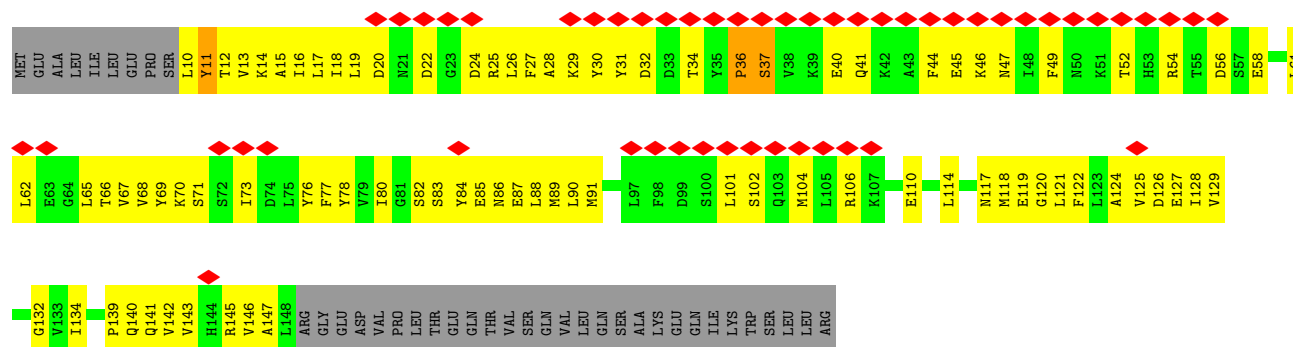




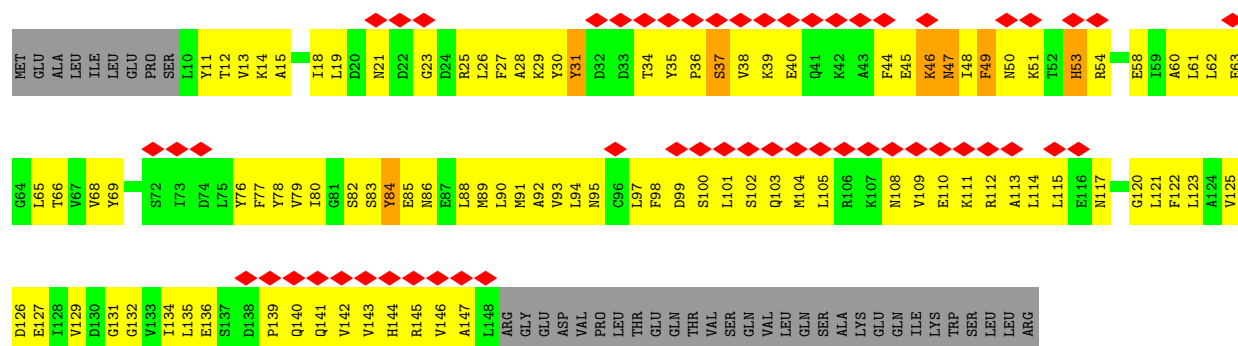
• Molecule 8: Coatomer subunit zeta-1



• Molecule 8: Coatomer subunit zeta-1



• Molecule 8: Coatomer subunit zeta-1



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of subtomograms used	1640	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY; CTF-determination for each individual tilt image was performed using CTFFIND4. Strip-based CTF-correction and tomogram reconstruction was performed in Imod.	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2	Depositor
Minimum defocus (nm)	2500	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.190	Depositor
Minimum map value	-0.199	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.026	Depositor
Recommended contour level	0.035	Depositor
Map size ($\text{\AA}$)	377.36, 377.36, 377.36	wwPDB
Map dimensions	212, 212, 212	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.78, 1.78, 1.78	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	2.48	262/4501 (5.8%)	2.75	423/5623 (7.5%)
1	H	2.48	265/4501 (5.9%)	2.75	422/5623 (7.5%)
2	E	1.59	0/1168	1.38	3/1457 (0.2%)
2	O	1.59	0/1168	1.38	3/1457 (0.2%)
3	B	3.09	367/3193 (11.5%)	2.84	291/3983 (7.3%)
3	I	3.09	370/3193 (11.6%)	2.84	295/3983 (7.4%)
4	C	3.11	368/3370 (10.9%)	2.84	371/4211 (8.8%)
4	J	3.11	363/3370 (10.8%)	2.84	369/4211 (8.8%)
5	D	2.28	74/1704 (4.3%)	2.26	82/2124 (3.9%)
5	N	3.04	75/704 (10.7%)	2.97	74/877 (8.4%)
6	F	2.69	40/634 (6.3%)	3.03	73/791 (9.2%)
6	M	2.74	49/634 (7.7%)	2.80	58/791 (7.3%)
6	P	2.69	42/634 (6.6%)	3.03	72/791 (9.1%)
6	R	3.27	88/634 (13.9%)	3.00	72/791 (9.1%)
6	T	2.74	49/634 (7.7%)	2.80	58/791 (7.3%)
7	G	2.93	308/3188 (9.7%)	2.98	352/3982 (8.8%)
7	K	3.08	247/2237 (11.0%)	3.04	266/2793 (9.5%)
7	Q	3.08	248/2237 (11.1%)	3.04	270/2793 (9.7%)
8	L	3.65	106/554 (19.1%)	2.95	62/691 (9.0%)
8	S	3.65	106/554 (19.1%)	2.95	64/691 (9.3%)
8	U	3.34	83/554 (15.0%)	2.79	58/691 (8.4%)
8	Z	3.33	83/554 (15.0%)	2.79	59/691 (8.5%)
All	All	2.85	3593/39920 (9.0%)	2.78	3797/49836 (7.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	B	0	3
3	I	0	3
All	All	0	6

All (3593) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	215	ILE	CA-C	-13.81	1.35	1.52
1	A	595	THR	CA-C	-13.62	1.43	1.52
1	H	595	THR	CA-C	-13.59	1.43	1.52
4	J	572	ARG	CA-C	-13.57	1.35	1.52
4	C	572	ARG	CA-C	-13.56	1.35	1.52
6	R	35	TYR	CA-C	-13.50	1.33	1.52
4	C	378	TYR	CA-C	-13.04	1.37	1.52
4	C	416	LYS	CA-C	-13.01	1.37	1.52
4	J	416	LYS	CA-C	-13.00	1.37	1.52
4	J	378	TYR	CA-C	-12.99	1.37	1.52
4	C	384	ARG	CA-C	-12.79	1.37	1.52
4	J	384	ARG	CA-C	-12.77	1.37	1.52
7	Q	211	VAL	CA-C	-12.74	1.36	1.52
7	K	211	VAL	CA-C	-12.71	1.36	1.52
5	D	55	ARG	CA-C	-12.66	1.36	1.52
5	N	55	ARG	CA-C	-12.63	1.36	1.52
7	Q	839	ASP	CA-C	-12.48	1.36	1.52
7	K	839	ASP	CA-C	-12.43	1.36	1.52
7	G	839	ASP	CA-C	-12.43	1.36	1.52
7	Q	214	MET	CA-C	-12.34	1.36	1.52
7	K	214	MET	CA-C	-12.29	1.36	1.52
4	J	377	ILE	CA-C	-12.27	1.38	1.52
4	C	377	ILE	CA-C	-12.23	1.38	1.52
3	I	762	ASN	CA-C	-12.16	1.37	1.53
3	B	762	ASN	CA-C	-12.14	1.37	1.53
3	I	126	HIS	CA-C	-11.79	1.38	1.52
3	B	126	HIS	CA-C	-11.77	1.38	1.52
4	C	449	PHE	CA-C	-11.71	1.38	1.52
4	J	449	PHE	CA-C	-11.62	1.38	1.52
6	R	109	ARG	CA-C	-11.62	1.36	1.52
7	Q	235	VAL	N-CA	-11.41	1.33	1.46
7	K	235	VAL	N-CA	-11.40	1.33	1.46
8	U	19	LEU	CA-C	-11.31	1.39	1.52
1	H	594	PRO	CA-C	-11.30	1.39	1.52
1	A	679	GLU	CA-C	-11.29	1.38	1.52
1	H	679	GLU	CA-C	-11.27	1.38	1.52
4	J	8	LYS	CA-C	-11.27	1.39	1.52
4	C	8	LYS	CA-C	-11.26	1.39	1.52
4	C	223	GLN	CA-C	-11.23	1.39	1.52
5	N	56	TYR	CA-C	-11.23	1.39	1.52
8	Z	19	LEU	CA-C	-11.19	1.39	1.52
4	J	223	GLN	CA-C	-11.16	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	442	PHE	CA-C	-11.15	1.38	1.52
5	D	56	TYR	CA-C	-11.11	1.39	1.52
4	C	573	LEU	CA-C	-10.99	1.39	1.52
4	J	573	LEU	CA-C	-10.95	1.39	1.52
7	K	165	HIS	CA-C	-10.94	1.38	1.52
3	B	378	GLU	CA-C	-10.91	1.38	1.52
7	Q	165	HIS	CA-C	-10.90	1.38	1.52
3	I	378	GLU	CA-C	-10.89	1.38	1.52
3	B	938	VAL	CA-C	-10.84	1.39	1.52
3	I	938	VAL	CA-C	-10.83	1.39	1.52
7	K	771	ASN	CA-C	-10.81	1.42	1.53
7	Q	771	ASN	CA-C	-10.77	1.42	1.53
6	P	148	ILE	CA-C	-10.75	1.43	1.52
7	G	771	ASN	CA-C	-10.72	1.42	1.53
4	J	415	PHE	CA-C	-10.71	1.39	1.52
1	A	612	LEU	N-CA	-10.69	1.33	1.46
3	I	749	VAL	CA-C	-10.69	1.38	1.52
6	F	148	ILE	CA-C	-10.69	1.43	1.52
7	G	112	ASP	CA-C	-10.69	1.38	1.52
4	C	415	PHE	CA-C	-10.68	1.39	1.52
8	L	49	PHE	CA-C	-10.68	1.39	1.52
3	B	749	VAL	CA-C	-10.67	1.39	1.52
3	I	940	GLY	CA-C	-10.67	1.42	1.51
8	S	49	PHE	CA-C	-10.64	1.39	1.52
1	H	612	LEU	N-CA	-10.64	1.33	1.46
3	I	440	ARG	CA-C	-10.62	1.39	1.52
1	A	612	LEU	CA-C	-10.61	1.39	1.52
3	B	940	GLY	CA-C	-10.61	1.42	1.51
1	H	612	LEU	CA-C	-10.59	1.39	1.52
6	R	96	ASP	CA-C	-10.59	1.39	1.52
3	B	440	ARG	CA-C	-10.57	1.39	1.52
6	R	105	GLU	CA-C	-10.53	1.39	1.52
5	N	81	GLU	CA-C	-10.52	1.39	1.52
5	D	81	GLU	CA-C	-10.50	1.39	1.52
3	I	940	GLY	N-CA	-10.49	1.34	1.45
3	B	783	LEU	CA-C	-10.49	1.39	1.52
3	B	940	GLY	N-CA	-10.48	1.34	1.45
3	B	799	ASN	CA-C	-10.46	1.40	1.52
3	I	783	LEU	CA-C	-10.45	1.39	1.52
3	I	799	ASN	CA-C	-10.43	1.40	1.52
4	C	470	TRP	CA-C	-10.40	1.40	1.52
1	H	242	VAL	CA-C	-10.33	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	242	VAL	CA-C	-10.31	1.44	1.52
4	J	470	TRP	CA-C	-10.31	1.40	1.52
4	C	367	VAL	CA-C	-10.27	1.39	1.52
4	C	314	ILE	CA-C	-10.25	1.39	1.52
4	J	314	ILE	CA-C	-10.25	1.39	1.52
6	R	90	PHE	CA-C	-10.24	1.40	1.52
4	J	367	VAL	CA-C	-10.23	1.39	1.52
4	C	213	ILE	CA-C	-10.22	1.40	1.52
8	U	15	ALA	CA-C	-10.21	1.40	1.52
4	J	213	ILE	CA-C	-10.21	1.40	1.52
3	I	300	TYR	CA-C	-10.19	1.39	1.52
3	I	375	LEU	CA-C	-10.18	1.39	1.52
4	J	529	TRP	CA-C	-10.18	1.40	1.52
8	Z	15	ALA	CA-C	-10.17	1.40	1.52
3	B	300	TYR	CA-C	-10.17	1.40	1.52
3	I	941	HIS	CA-C	-10.16	1.40	1.52
8	S	65	LEU	CA-C	-10.15	1.40	1.52
3	B	317	LEU	CA-C	-10.13	1.39	1.52
7	G	174	VAL	CA-C	-10.13	1.39	1.52
4	J	553	THR	CA-C	-10.13	1.40	1.52
6	R	110	MET	CA-C	-10.13	1.39	1.52
4	C	529	TRP	CA-C	-10.12	1.40	1.52
8	L	65	LEU	CA-C	-10.11	1.40	1.52
3	B	375	LEU	CA-C	-10.11	1.39	1.52
7	G	693	VAL	CA-C	-10.10	1.41	1.52
1	H	600	LYS	CA-C	-10.09	1.38	1.52
4	C	545	TYR	CA-C	-10.09	1.40	1.52
6	R	107	MET	CA-C	-10.08	1.39	1.52
1	A	600	LYS	CA-C	-10.07	1.38	1.52
4	J	545	TYR	CA-C	-10.07	1.40	1.52
8	S	142	VAL	CA-C	-10.07	1.40	1.52
3	B	941	HIS	CA-C	-10.06	1.40	1.52
3	I	753	ASP	CA-C	-10.06	1.40	1.52
4	C	553	THR	CA-C	-10.04	1.40	1.52
3	I	317	LEU	CA-C	-10.04	1.39	1.52
7	G	774	ALA	N-CA	-10.03	1.34	1.46
8	U	61	LEU	CA-C	-10.00	1.40	1.52
1	H	243	ASP	CA-C	-9.99	1.40	1.52
3	B	753	ASP	CA-C	-9.99	1.40	1.52
7	Q	234	ARG	CA-C	-9.99	1.39	1.52
8	L	142	VAL	CA-C	-9.98	1.40	1.52
7	Q	774	ALA	N-CA	-9.97	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	379	VAL	CA-C	-9.96	1.40	1.52
8	Z	61	LEU	CA-C	-9.96	1.41	1.52
1	A	243	ASP	CA-C	-9.96	1.40	1.52
7	K	774	ALA	N-CA	-9.95	1.34	1.46
8	U	65	LEU	CA-C	-9.94	1.40	1.52
3	B	349	LEU	CA-C	-9.93	1.39	1.52
7	G	225	SER	CA-C	-9.93	1.41	1.52
7	K	234	ARG	CA-C	-9.90	1.40	1.52
8	Z	65	LEU	CA-C	-9.88	1.40	1.52
3	I	349	LEU	CA-C	-9.88	1.40	1.52
3	I	792	LEU	CA-C	-9.88	1.41	1.53
4	C	221	CYS	CA-C	-9.87	1.40	1.52
3	I	909	ASN	CA-C	-9.86	1.40	1.52
4	J	201	TYR	CA-C	-9.85	1.40	1.52
4	J	221	CYS	CA-C	-9.84	1.40	1.52
1	A	660	ILE	CA-C	-9.83	1.38	1.52
3	B	909	ASN	CA-C	-9.83	1.40	1.52
4	C	414	ILE	CA-C	-9.81	1.40	1.52
1	H	660	ILE	CA-C	-9.81	1.38	1.52
7	Q	217	LYS	CA-C	-9.80	1.40	1.52
4	J	414	ILE	CA-C	-9.79	1.40	1.52
4	J	535	ILE	CA-C	-9.79	1.40	1.52
3	B	792	LEU	CA-C	-9.79	1.41	1.53
7	K	217	LYS	CA-C	-9.79	1.40	1.52
4	C	535	ILE	CA-C	-9.78	1.40	1.52
8	S	26	LEU	CA-C	-9.78	1.40	1.52
4	C	201	TYR	CA-C	-9.77	1.40	1.52
7	K	200	LEU	CA-C	-9.77	1.40	1.52
8	Z	19	LEU	N-CA	-9.75	1.33	1.45
4	C	571	ASN	CA-C	-9.74	1.40	1.53
7	K	773	GLU	CA-C	-9.73	1.40	1.52
4	J	571	ASN	CA-C	-9.73	1.40	1.53
4	J	244	ILE	CA-C	-9.72	1.40	1.52
7	Q	190	ILE	CA-C	-9.72	1.41	1.52
8	U	30	TYR	CA-C	-9.72	1.40	1.52
7	Q	773	GLU	CA-C	-9.71	1.40	1.52
8	Z	30	TYR	CA-C	-9.71	1.40	1.52
7	G	235	VAL	N-CA	-9.71	1.35	1.46
7	Q	200	LEU	CA-C	-9.71	1.40	1.52
8	L	26	LEU	CA-C	-9.70	1.40	1.52
4	C	313	LYS	CA-C	-9.68	1.41	1.52
7	K	190	ILE	CA-C	-9.68	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	244	ILE	CA-C	-9.66	1.40	1.52
8	U	19	LEU	N-CA	-9.66	1.33	1.45
4	J	521	GLN	CA-C	-9.66	1.40	1.52
4	C	521	GLN	CA-C	-9.65	1.40	1.52
4	J	313	LYS	CA-C	-9.65	1.41	1.52
7	G	135	THR	CA-C	-9.60	1.40	1.52
1	A	596	GLU	N-CA	-9.60	1.34	1.46
1	A	631	LYS	CA-C	-9.57	1.40	1.52
4	J	283	SER	CA-C	-9.57	1.44	1.53
1	H	596	GLU	N-CA	-9.56	1.34	1.46
5	N	59	GLN	CA-C	-9.55	1.41	1.52
7	G	773	GLU	CA-C	-9.54	1.40	1.52
1	H	631	LYS	CA-C	-9.54	1.40	1.52
4	C	245	ILE	N-CA	-9.54	1.35	1.46
4	C	283	SER	CA-C	-9.52	1.44	1.53
5	D	59	GLN	CA-C	-9.52	1.41	1.52
8	S	27	PHE	CA-C	-9.51	1.40	1.52
4	J	245	ILE	N-CA	-9.50	1.35	1.46
4	J	262	ARG	CA-C	-9.48	1.41	1.52
8	L	27	PHE	CA-C	-9.46	1.40	1.52
3	I	434	ASP	CA-C	-9.46	1.40	1.52
3	B	434	ASP	CA-C	-9.46	1.40	1.52
4	C	262	ARG	CA-C	-9.46	1.41	1.52
7	Q	210	ALA	CA-C	-9.45	1.40	1.52
4	C	574	TYR	CA-C	-9.45	1.41	1.52
8	S	45	GLU	CA-C	-9.44	1.40	1.52
7	K	731	THR	CA-C	-9.44	1.41	1.52
3	I	379	VAL	CA-C	-9.43	1.40	1.52
7	G	872	SER	CA-C	-9.43	1.40	1.52
7	Q	731	THR	CA-C	-9.42	1.41	1.52
7	K	210	ALA	CA-C	-9.42	1.40	1.52
3	I	869	THR	CA-C	-9.39	1.41	1.52
7	Q	872	SER	CA-C	-9.39	1.40	1.52
4	J	574	TYR	CA-C	-9.39	1.41	1.52
4	C	151	ASN	CA-C	-9.38	1.42	1.52
3	I	372	VAL	CA-C	-9.38	1.40	1.52
6	T	35	TYR	CA-C	-9.36	1.39	1.52
7	G	731	THR	CA-C	-9.36	1.41	1.52
8	L	45	GLU	CA-C	-9.36	1.40	1.52
4	J	256	TRP	CA-C	-9.36	1.41	1.52
6	M	47	PRO	CA-C	-9.35	1.40	1.52
3	B	183	HIS	CA-C	-9.35	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	183	HIS	CA-C	-9.35	1.40	1.52
4	C	256	TRP	CA-C	-9.35	1.41	1.52
6	T	47	PRO	CA-C	-9.35	1.40	1.52
3	B	372	VAL	CA-C	-9.34	1.41	1.52
4	J	151	ASN	CA-C	-9.32	1.42	1.52
1	H	14	GLY	CA-C	-9.32	1.43	1.51
7	K	872	SER	CA-C	-9.31	1.40	1.52
3	B	869	THR	CA-C	-9.31	1.41	1.52
6	M	35	TYR	CA-C	-9.31	1.39	1.52
6	R	58	TYR	CA-C	-9.31	1.41	1.52
4	C	661	ALA	CA-C	-9.29	1.41	1.52
4	J	602	ASP	CA-C	-9.28	1.42	1.53
5	D	50	GLU	CA-C	-9.28	1.41	1.52
7	Q	203	VAL	N-CA	-9.28	1.35	1.46
7	K	203	VAL	N-CA	-9.27	1.35	1.46
5	N	117	VAL	CA-C	-9.26	1.40	1.52
8	L	89	MET	CA-C	-9.26	1.40	1.52
4	C	361	ASN	CA-C	-9.25	1.40	1.52
4	J	661	ALA	CA-C	-9.25	1.41	1.52
4	J	361	ASN	CA-C	-9.23	1.40	1.52
4	J	253	VAL	CA-C	-9.23	1.41	1.52
8	S	89	MET	CA-C	-9.22	1.41	1.52
5	D	117	VAL	CA-C	-9.22	1.40	1.52
4	C	253	VAL	CA-C	-9.22	1.41	1.52
7	Q	202	HIS	CA-C	-9.22	1.40	1.52
1	A	808	TRP	CA-C	-9.21	1.45	1.52
1	H	808	TRP	CA-C	-9.21	1.45	1.52
7	K	202	HIS	CA-C	-9.21	1.40	1.52
5	N	50	GLU	CA-C	-9.20	1.41	1.52
1	A	663	GLU	CA-C	-9.20	1.41	1.52
1	A	14	GLY	CA-C	-9.19	1.43	1.51
7	Q	827	THR	CA-C	-9.19	1.41	1.52
4	C	602	ASP	CA-C	-9.18	1.42	1.53
1	H	230	LYS	CA-C	-9.18	1.41	1.52
3	I	374	VAL	CA-C	-9.18	1.40	1.52
4	J	555	ALA	CA-C	-9.18	1.41	1.52
1	A	230	LYS	CA-C	-9.16	1.41	1.52
4	C	555	ALA	CA-C	-9.16	1.41	1.52
7	G	70	PHE	CA-C	-9.16	1.41	1.52
7	G	827	THR	CA-C	-9.14	1.41	1.52
1	H	663	GLU	CA-C	-9.14	1.41	1.52
1	H	599	PHE	N-CA	-9.13	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	374	VAL	CA-C	-9.13	1.41	1.52
6	R	84	ASN	CA-C	-9.13	1.40	1.52
3	B	849	THR	C-N	9.12	1.44	1.33
1	A	74	LYS	CA-C	-9.12	1.40	1.52
5	N	52	GLU	CA-C	-9.12	1.41	1.53
7	Q	142	ARG	CA-C	-9.11	1.41	1.52
7	K	827	THR	CA-C	-9.11	1.41	1.52
3	I	849	THR	C-N	9.10	1.44	1.33
7	K	142	ARG	CA-C	-9.10	1.41	1.52
7	G	190	ILE	CA-C	-9.09	1.41	1.52
6	M	90	PHE	CA-C	-9.09	1.41	1.52
1	A	599	PHE	N-CA	-9.07	1.35	1.46
7	K	201	TYR	CA-C	-9.07	1.41	1.52
1	H	74	LYS	CA-C	-9.07	1.40	1.52
6	T	90	PHE	CA-C	-9.06	1.41	1.52
1	H	519	ASP	CA-C	-9.04	1.42	1.52
5	D	52	GLU	CA-C	-9.04	1.41	1.53
6	P	54	GLU	CA-C	-9.02	1.41	1.52
3	B	870	VAL	CA-C	-9.01	1.42	1.52
5	D	54	VAL	CA-C	-9.00	1.41	1.52
3	I	398	LEU	CA-C	-9.00	1.41	1.52
3	I	373	ILE	CA-C	-9.00	1.41	1.52
1	A	519	ASP	CA-C	-8.99	1.42	1.52
3	B	398	LEU	CA-C	-8.99	1.41	1.52
4	J	567	ILE	N-CA	-8.98	1.39	1.46
7	G	232	MET	CA-C	-8.98	1.40	1.52
3	I	870	VAL	CA-C	-8.98	1.42	1.52
3	I	368	VAL	N-CA	-8.97	1.35	1.46
5	N	54	VAL	CA-C	-8.97	1.41	1.52
6	F	54	GLU	CA-C	-8.96	1.41	1.52
6	R	33	VAL	N-CA	-8.96	1.36	1.46
6	R	112	ASN	CA-C	-8.96	1.40	1.52
3	B	368	VAL	N-CA	-8.96	1.35	1.46
4	C	567	ILE	N-CA	-8.95	1.39	1.46
7	Q	109	LEU	CA-C	-8.95	1.41	1.52
7	Q	201	TYR	CA-C	-8.95	1.41	1.52
3	B	373	ILE	CA-C	-8.95	1.41	1.52
7	G	180	GLU	N-CA	-8.94	1.35	1.46
7	K	109	LEU	CA-C	-8.92	1.41	1.52
1	A	594	PRO	CA-C	-8.91	1.39	1.52
4	C	630	PHE	CA-C	-8.91	1.44	1.53
8	U	69	TYR	CA-C	-8.90	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	506	LEU	CA-C	-8.88	1.41	1.52
4	C	245	ILE	CA-C	-8.88	1.41	1.52
8	Z	69	TYR	CA-C	-8.87	1.41	1.52
4	C	459	ARG	CA-C	-8.87	1.41	1.52
1	H	610	GLU	N-CA	-8.87	1.35	1.46
4	J	245	ILE	CA-C	-8.87	1.41	1.52
7	Q	251	LEU	CA-C	-8.87	1.41	1.52
4	J	315	ILE	N-CA	-8.86	1.35	1.46
4	J	453	GLU	CA-C	-8.86	1.41	1.52
7	G	89	TYR	CA-C	-8.86	1.41	1.52
1	A	610	GLU	N-CA	-8.86	1.35	1.46
7	K	291	VAL	N-CA	-8.86	1.36	1.46
1	H	674	TRP	CA-C	-8.86	1.41	1.52
3	I	760	VAL	CA-C	-8.85	1.41	1.52
4	J	630	PHE	CA-C	-8.85	1.44	1.53
4	J	459	ARG	CA-C	-8.85	1.41	1.52
6	M	38	LYS	CA-C	-8.84	1.41	1.52
1	A	674	TRP	CA-C	-8.84	1.41	1.52
1	A	285	GLN	CA-C	-8.83	1.41	1.52
4	C	453	GLU	CA-C	-8.83	1.41	1.52
1	H	506	LEU	CA-C	-8.83	1.41	1.52
3	B	760	VAL	CA-C	-8.83	1.41	1.52
1	H	285	GLN	CA-C	-8.83	1.41	1.52
7	Q	291	VAL	N-CA	-8.83	1.36	1.46
6	T	38	LYS	CA-C	-8.82	1.41	1.52
7	K	251	LEU	CA-C	-8.82	1.41	1.52
7	G	90	LEU	CA-C	-8.81	1.41	1.52
8	L	30	TYR	CA-C	-8.78	1.41	1.52
4	C	315	ILE	N-CA	-8.77	1.35	1.46
8	L	100	SER	CA-C	-8.77	1.41	1.52
7	Q	722	CYS	CA-C	-8.77	1.42	1.52
8	S	30	TYR	CA-C	-8.76	1.41	1.52
6	R	106	VAL	N-CA	-8.76	1.36	1.46
6	R	90	PHE	N-CA	-8.75	1.35	1.46
8	L	140	GLN	CA-C	-8.73	1.41	1.52
7	Q	204	ARG	CA-C	-8.73	1.40	1.52
1	A	534	ALA	CA-C	-8.71	1.42	1.52
1	A	611	VAL	CA-C	-8.71	1.41	1.52
6	R	29	GLY	CA-C	-8.71	1.39	1.51
8	S	140	GLN	CA-C	-8.71	1.41	1.52
1	H	505	LEU	CA-C	-8.71	1.42	1.52
1	H	611	VAL	CA-C	-8.70	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	753	ASP	N-CA	-8.69	1.35	1.46
7	K	204	ARG	CA-C	-8.69	1.40	1.52
8	S	100	SER	CA-C	-8.68	1.41	1.52
7	G	163	SER	CA-C	-8.67	1.41	1.52
3	I	750	ASN	N-CA	-8.66	1.35	1.46
1	A	505	LEU	CA-C	-8.66	1.42	1.52
3	B	750	ASN	N-CA	-8.66	1.35	1.46
4	J	778	SER	CA-C	-8.66	1.41	1.52
7	Q	810	MET	CA-C	-8.66	1.41	1.52
7	K	722	CYS	CA-C	-8.65	1.42	1.52
8	U	62	LEU	CA-C	-8.65	1.42	1.52
7	G	722	CYS	CA-C	-8.65	1.42	1.52
8	S	50	ASN	CA-C	-8.65	1.41	1.52
3	B	468	LYS	CA-C	-8.64	1.41	1.52
8	S	141	GLN	CA-C	-8.63	1.41	1.52
8	L	50	ASN	CA-C	-8.63	1.41	1.52
3	I	753	ASP	N-CA	-8.63	1.35	1.46
4	C	778	SER	CA-C	-8.63	1.41	1.52
8	Z	62	LEU	CA-C	-8.63	1.42	1.52
6	T	58	TYR	CA-C	-8.63	1.42	1.52
6	M	58	TYR	CA-C	-8.63	1.42	1.52
1	H	534	ALA	CA-C	-8.63	1.42	1.52
7	G	234	ARG	CA-C	-8.62	1.41	1.52
8	L	141	GLN	CA-C	-8.62	1.41	1.52
3	B	742	TYR	CA-C	-8.61	1.41	1.52
4	J	546	TYR	CA-C	-8.61	1.42	1.52
4	J	534	PHE	CA-C	-8.60	1.42	1.52
4	C	289	GLY	CA-C	-8.60	1.46	1.52
4	C	534	PHE	CA-C	-8.60	1.42	1.52
3	I	468	LYS	CA-C	-8.58	1.42	1.52
3	I	923	ASN	CA-C	-8.58	1.42	1.52
4	C	546	TYR	CA-C	-8.58	1.42	1.52
3	B	923	ASN	CA-C	-8.57	1.42	1.52
8	Z	65	LEU	N-CA	-8.57	1.35	1.45
8	S	13	VAL	CA-C	-8.57	1.42	1.52
7	K	810	MET	CA-C	-8.56	1.41	1.52
4	J	289	GLY	CA-C	-8.56	1.46	1.52
3	B	332	VAL	CA-C	-8.55	1.41	1.52
7	G	810	MET	CA-C	-8.54	1.41	1.52
8	U	65	LEU	N-CA	-8.54	1.35	1.45
4	C	550	GLU	CA-C	-8.53	1.42	1.52
3	I	332	VAL	CA-C	-8.53	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	92	ILE	CA-C	-8.53	1.42	1.52
7	G	726	CYS	CA-C	-8.53	1.42	1.52
3	I	742	TYR	CA-C	-8.53	1.42	1.52
8	L	13	VAL	CA-C	-8.51	1.42	1.52
7	Q	232	MET	CA-C	-8.50	1.41	1.52
7	K	168	LYS	CA-C	-8.50	1.42	1.52
7	K	232	MET	CA-C	-8.49	1.41	1.52
3	I	60	VAL	CA-C	-8.49	1.42	1.52
3	I	759	LEU	N-CA	-8.49	1.35	1.46
7	Q	726	CYS	CA-C	-8.49	1.42	1.52
7	K	726	CYS	CA-C	-8.48	1.42	1.52
4	C	71	TRP	CA-C	-8.48	1.42	1.52
4	J	71	TRP	CA-C	-8.48	1.42	1.52
7	G	214	MET	CA-C	-8.47	1.41	1.52
7	Q	168	LYS	CA-C	-8.47	1.42	1.52
3	I	369	GLU	CA-C	-8.47	1.41	1.52
3	B	801	LYS	CA-C	-8.46	1.42	1.52
3	B	836	ASP	CA-C	-8.46	1.41	1.53
1	A	514	CYS	CA-C	-8.46	1.42	1.52
4	J	550	GLU	CA-C	-8.46	1.42	1.52
3	B	60	VAL	CA-C	-8.45	1.42	1.52
4	C	84	PHE	CA-C	-8.45	1.42	1.52
1	A	596	GLU	CA-C	-8.44	1.41	1.52
1	H	514	CYS	CA-C	-8.44	1.42	1.52
3	I	801	LYS	CA-C	-8.44	1.42	1.52
3	B	374	VAL	N-CA	-8.43	1.36	1.46
1	A	413	SER	CA-C	-8.43	1.42	1.52
7	G	441	GLU	CA-C	-8.43	1.42	1.52
1	H	613	HIS	CA-C	-8.43	1.42	1.52
3	B	759	LEU	N-CA	-8.42	1.35	1.46
7	G	211	VAL	CA-C	-8.42	1.42	1.52
3	B	369	GLU	CA-C	-8.42	1.42	1.52
7	K	163	SER	CA-C	-8.42	1.41	1.52
1	H	596	GLU	CA-C	-8.42	1.41	1.52
8	L	103	GLN	CA-C	-8.41	1.41	1.52
3	I	374	VAL	N-CA	-8.41	1.36	1.46
7	Q	163	SER	CA-C	-8.41	1.41	1.52
8	S	103	GLN	CA-C	-8.41	1.41	1.52
3	I	836	ASP	CA-C	-8.40	1.41	1.53
4	J	84	PHE	CA-C	-8.40	1.42	1.52
8	S	129	VAL	CA-C	-8.40	1.42	1.52
8	L	129	VAL	CA-C	-8.40	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	613	HIS	CA-C	-8.39	1.42	1.52
3	B	380	ILE	CA-C	-8.37	1.42	1.52
1	H	413	SER	CA-C	-8.37	1.42	1.52
3	B	908	ALA	CA-C	-8.37	1.42	1.52
4	J	530	VAL	CA-C	-8.37	1.43	1.52
8	L	48	ILE	N-CA	-8.35	1.36	1.46
7	G	74	THR	CA-C	-8.35	1.41	1.52
3	I	908	ALA	CA-C	-8.35	1.42	1.52
4	C	530	VAL	CA-C	-8.34	1.43	1.52
3	I	418	PRO	CA-C	-8.33	1.39	1.52
4	J	150	ILE	CA-C	-8.33	1.42	1.52
4	J	494	LYS	CA-C	-8.33	1.42	1.52
3	I	380	ILE	CA-C	-8.33	1.42	1.52
4	C	80	GLN	CA-C	-8.32	1.42	1.52
1	H	391	TYR	CA-C	-8.32	1.42	1.52
4	J	80	GLN	CA-C	-8.32	1.42	1.52
1	A	391	TYR	CA-C	-8.32	1.42	1.52
3	B	371	LEU	N-CA	-8.32	1.36	1.46
3	I	754	ILE	N-CA	-8.32	1.35	1.46
3	B	418	PRO	CA-C	-8.32	1.39	1.52
1	H	56	GLY	CA-C	-8.32	1.44	1.51
3	I	371	LEU	N-CA	-8.31	1.36	1.46
4	C	379	THR	N-CA	-8.31	1.35	1.46
4	C	494	LYS	CA-C	-8.31	1.42	1.52
6	R	103	ALA	CA-C	-8.31	1.42	1.52
4	C	760	THR	CA-C	-8.30	1.42	1.52
7	G	91	THR	N-CA	-8.30	1.36	1.46
8	U	142	VAL	CA-C	-8.30	1.42	1.52
3	B	754	ILE	N-CA	-8.29	1.35	1.46
4	C	150	ILE	CA-C	-8.29	1.42	1.52
8	Z	142	VAL	CA-C	-8.29	1.42	1.52
8	S	48	ILE	N-CA	-8.28	1.36	1.46
3	B	61	ILE	CA-C	-8.28	1.42	1.52
7	K	203	VAL	CA-C	-8.28	1.42	1.52
3	I	477	LEU	CA-C	-8.28	1.42	1.52
1	A	588	ARG	CA-C	8.28	1.62	1.52
1	H	588	ARG	CA-C	8.28	1.62	1.52
3	I	76	THR	CA-C	-8.27	1.42	1.52
4	J	760	THR	CA-C	-8.27	1.42	1.52
7	Q	203	VAL	CA-C	-8.27	1.42	1.52
5	N	61	MET	CA-C	-8.26	1.43	1.52
3	B	477	LEU	CA-C	-8.26	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	S	48	ILE	CA-C	-8.26	1.42	1.52
4	J	379	THR	N-CA	-8.25	1.36	1.46
3	B	456	LYS	CA-C	-8.24	1.42	1.52
7	G	476	ILE	CA-C	-8.24	1.42	1.52
3	B	76	THR	CA-C	-8.24	1.42	1.52
3	I	61	ILE	CA-C	-8.23	1.42	1.52
7	G	72	ALA	N-CA	-8.23	1.36	1.46
4	J	154	ASP	CA-C	-8.23	1.42	1.53
1	A	56	GLY	CA-C	-8.22	1.44	1.51
5	D	61	MET	CA-C	-8.22	1.43	1.52
8	L	48	ILE	CA-C	-8.21	1.42	1.52
6	T	171	GLU	CA-C	-8.21	1.42	1.52
8	U	129	VAL	CA-C	-8.21	1.43	1.52
3	I	456	LYS	CA-C	-8.20	1.42	1.52
4	C	154	ASP	CA-C	-8.20	1.42	1.53
1	A	602	ALA	CA-C	-8.20	1.42	1.52
7	K	211	VAL	N-CA	-8.20	1.36	1.46
3	B	417	ILE	CA-C	-8.19	1.45	1.52
1	A	598	LYS	CA-C	-8.19	1.42	1.52
4	C	552	VAL	CA-C	-8.19	1.42	1.52
6	M	171	GLU	CA-C	-8.19	1.42	1.52
8	Z	129	VAL	CA-C	-8.18	1.43	1.52
7	G	173	VAL	N-CA	-8.17	1.37	1.46
7	Q	211	VAL	N-CA	-8.17	1.36	1.46
1	H	598	LYS	CA-C	-8.17	1.42	1.52
1	H	602	ALA	CA-C	-8.17	1.42	1.52
5	D	51	THR	CA-C	-8.17	1.42	1.52
5	N	51	THR	CA-C	-8.16	1.42	1.52
4	J	552	VAL	CA-C	-8.16	1.43	1.52
7	G	143	TYR	CA-C	-8.16	1.42	1.52
3	B	440	ARG	N-CA	-8.15	1.36	1.46
7	G	233	ILE	CA-C	-8.15	1.42	1.52
4	C	383	LEU	CA-C	-8.15	1.42	1.53
7	Q	105	VAL	N-CA	-8.15	1.34	1.46
3	B	275	VAL	CA-C	-8.14	1.43	1.52
3	I	417	ILE	CA-C	-8.14	1.45	1.52
6	M	34	LEU	CA-C	-8.14	1.42	1.52
6	R	154	PHE	CA-C	-8.14	1.42	1.52
3	I	810	GLU	CA-C	-8.13	1.42	1.52
3	B	373	ILE	N-CA	-8.13	1.36	1.46
6	T	34	LEU	CA-C	-8.12	1.42	1.52
3	B	457	MET	N-CA	-8.12	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	254	PHE	CA-C	-8.12	1.42	1.52
3	I	373	ILE	N-CA	-8.11	1.36	1.46
3	B	810	GLU	CA-C	-8.11	1.42	1.52
3	I	457	MET	N-CA	-8.10	1.36	1.46
4	J	383	LEU	CA-C	-8.09	1.42	1.53
7	K	869	ILE	CA-C	-8.09	1.42	1.52
3	I	275	VAL	CA-C	-8.08	1.43	1.52
7	K	105	VAL	N-CA	-8.08	1.34	1.46
3	I	440	ARG	N-CA	-8.08	1.36	1.46
1	A	21	ARG	CA-C	-8.07	1.43	1.52
6	R	38	LYS	CA-C	-8.07	1.42	1.52
4	C	601	ARG	CA-C	-8.06	1.42	1.52
8	U	134	ILE	CA-C	-8.06	1.43	1.52
7	G	730	PHE	CA-C	-8.06	1.43	1.52
1	A	659	GLU	CA-C	-8.06	1.42	1.52
4	C	169	VAL	CA-C	-8.06	1.43	1.52
3	I	339	ASP	CA-C	-8.05	1.42	1.52
1	H	21	ARG	CA-C	-8.05	1.44	1.52
7	G	173	VAL	CA-C	-8.04	1.42	1.52
1	H	675	GLU	CA-C	-8.04	1.42	1.52
1	H	715	LYS	CA-C	-8.04	1.42	1.52
7	Q	869	ILE	CA-C	-8.04	1.42	1.52
8	S	18	ILE	CA-C	-8.03	1.42	1.52
4	J	601	ARG	CA-C	-8.03	1.42	1.52
1	A	191	GLY	CA-C	-8.02	1.40	1.51
7	G	869	ILE	CA-C	-8.02	1.42	1.52
1	A	715	LYS	CA-C	-8.02	1.42	1.52
4	J	359	GLN	CA-C	-8.01	1.42	1.52
8	Z	134	ILE	CA-C	-8.01	1.43	1.52
1	H	213	PHE	CA-C	-8.00	1.43	1.52
4	J	169	VAL	CA-C	-8.00	1.43	1.52
1	H	659	GLU	CA-C	-8.00	1.42	1.52
7	Q	843	ARG	CA-C	-8.00	1.42	1.52
4	C	85	ASN	N-CA	-7.99	1.35	1.46
7	G	141	GLU	N-CA	-7.99	1.36	1.46
7	K	730	PHE	CA-C	-7.99	1.43	1.52
7	K	843	ARG	CA-C	-7.99	1.42	1.52
8	L	18	ILE	CA-C	-7.99	1.42	1.52
8	L	143	VAL	CA-C	-7.99	1.43	1.52
3	I	460	VAL	CA-C	-7.99	1.43	1.52
4	J	360	HIS	CA-C	-7.98	1.42	1.53
1	H	191	GLY	CA-C	-7.98	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	843	ARG	CA-C	-7.97	1.42	1.52
1	A	673	CYS	N-CA	-7.97	1.36	1.46
1	H	673	CYS	N-CA	-7.97	1.36	1.46
1	A	675	GLU	CA-C	-7.96	1.42	1.52
3	B	460	VAL	CA-C	-7.96	1.43	1.52
6	R	23	VAL	CA-C	-7.96	1.43	1.52
1	A	659	GLU	N-CA	-7.96	1.36	1.46
7	Q	84	LEU	CA-C	-7.96	1.42	1.52
8	S	143	VAL	CA-C	-7.96	1.43	1.52
3	B	339	ASP	CA-C	-7.96	1.42	1.52
1	A	213	PHE	CA-C	-7.95	1.43	1.52
7	Q	730	PHE	CA-C	-7.95	1.43	1.52
4	J	419	LYS	CA-C	-7.95	1.42	1.52
4	J	544	ASN	CA-C	-7.95	1.42	1.52
4	C	544	ASN	CA-C	-7.94	1.42	1.52
4	C	360	HIS	CA-C	-7.93	1.42	1.53
3	I	453	ILE	N-CA	-7.93	1.37	1.46
4	C	419	LYS	CA-C	-7.93	1.42	1.52
7	K	84	LEU	CA-C	-7.93	1.42	1.52
3	B	758	VAL	CA-C	-7.92	1.43	1.52
7	G	499	GLY	CA-C	-7.92	1.43	1.52
4	J	379	THR	CA-C	-7.92	1.43	1.52
7	G	237	SER	CA-C	-7.92	1.42	1.52
4	C	359	GLN	CA-C	-7.91	1.42	1.52
7	G	484	HIS	CA-C	-7.91	1.42	1.52
4	J	85	ASN	N-CA	-7.91	1.35	1.46
3	B	379	VAL	N-CA	-7.91	1.37	1.46
7	G	530	PHE	CA-C	-7.91	1.42	1.52
7	K	191	MET	CA-C	-7.91	1.42	1.52
7	Q	191	MET	CA-C	-7.91	1.42	1.52
8	L	101	LEU	CA-C	-7.90	1.42	1.52
3	I	758	VAL	CA-C	-7.90	1.43	1.52
1	H	659	GLU	N-CA	-7.89	1.36	1.46
8	L	44	PHE	CA-C	-7.89	1.42	1.52
4	J	535	ILE	N-CA	-7.88	1.36	1.46
8	L	113	ALA	CA-C	-7.88	1.42	1.52
3	B	453	ILE	N-CA	-7.88	1.37	1.46
8	S	113	ALA	CA-C	-7.88	1.42	1.52
4	C	535	ILE	N-CA	-7.87	1.36	1.46
6	M	90	PHE	N-CA	-7.87	1.36	1.46
7	K	306	ALA	CA-C	-7.86	1.42	1.52
7	G	258	CYS	CA-C	-7.86	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	379	THR	CA-C	-7.86	1.43	1.52
4	C	385	ASN	CA-C	-7.85	1.42	1.52
3	I	318	ASP	CA-C	-7.85	1.42	1.52
7	Q	306	ALA	CA-C	-7.84	1.42	1.52
1	A	428	VAL	N-CA	-7.84	1.37	1.46
4	J	385	ASN	CA-C	-7.84	1.42	1.52
8	S	44	PHE	CA-C	-7.84	1.42	1.52
7	Q	166	LEU	CA-C	-7.83	1.42	1.52
7	Q	182	GLN	CA-C	-7.83	1.42	1.52
8	S	101	LEU	CA-C	-7.83	1.42	1.52
7	K	166	LEU	CA-C	-7.83	1.42	1.52
3	B	770	ASN	CA-C	-7.83	1.43	1.52
7	K	182	GLN	CA-C	-7.83	1.42	1.52
4	J	730	MET	CA-C	-7.83	1.42	1.52
4	C	442	ARG	CA-C	-7.82	1.43	1.52
6	T	90	PHE	N-CA	-7.82	1.36	1.46
7	G	165	HIS	CA-C	-7.82	1.42	1.52
4	C	730	MET	CA-C	-7.81	1.42	1.52
7	K	775	ALA	CA-C	-7.81	1.42	1.52
3	I	77	ILE	CA-C	-7.81	1.42	1.52
1	A	681	ALA	CA-C	-7.81	1.43	1.52
6	R	121	TRP	CA-C	-7.81	1.43	1.52
3	I	770	ASN	CA-C	-7.80	1.43	1.52
3	I	777	THR	CA-C	-7.80	1.43	1.52
3	B	820	TYR	CA-C	-7.80	1.42	1.52
6	R	106	VAL	CA-C	-7.80	1.43	1.52
8	L	105	LEU	CA-C	-7.80	1.42	1.52
1	H	321	ARG	CA-C	-7.80	1.42	1.53
6	T	159	CYS	CA-C	-7.80	1.43	1.52
3	I	820	TYR	CA-C	-7.80	1.42	1.52
6	M	159	CYS	CA-C	-7.79	1.43	1.52
1	H	681	ALA	CA-C	-7.79	1.43	1.52
4	J	380	ALA	CA-C	-7.79	1.43	1.52
1	A	675	GLU	N-CA	-7.79	1.36	1.46
7	Q	775	ALA	CA-C	-7.79	1.42	1.52
6	R	100	ILE	N-CA	-7.78	1.37	1.46
4	C	380	ALA	CA-C	-7.77	1.43	1.52
1	H	428	VAL	N-CA	-7.77	1.37	1.46
4	J	442	ARG	CA-C	-7.77	1.43	1.52
8	U	16	ILE	N-CA	-7.77	1.37	1.46
1	A	321	ARG	CA-C	-7.77	1.42	1.53
1	A	520	ALA	CA-C	-7.77	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	631	LYS	N-CA	-7.77	1.36	1.46
1	H	520	ALA	CA-C	-7.76	1.43	1.52
7	G	178	VAL	N-CA	-7.76	1.37	1.46
3	B	318	ASP	CA-C	-7.76	1.42	1.52
3	B	77	ILE	CA-C	-7.75	1.43	1.52
3	B	447	ASP	CA-C	-7.75	1.42	1.52
3	B	833	VAL	CA-C	-7.75	1.43	1.52
1	H	675	GLU	N-CA	-7.75	1.36	1.46
1	A	631	LYS	N-CA	-7.75	1.36	1.46
3	I	406	SER	CA-C	-7.74	1.42	1.52
4	J	484	SER	CA-C	-7.74	1.42	1.52
8	Z	16	ILE	N-CA	-7.74	1.37	1.46
7	G	775	ALA	CA-C	-7.72	1.42	1.52
8	S	83	SER	CA-C	-7.72	1.43	1.53
8	L	83	SER	CA-C	-7.71	1.43	1.53
3	I	94	LEU	CA-C	-7.71	1.42	1.52
3	I	833	VAL	CA-C	-7.71	1.43	1.52
3	B	870	VAL	N-CA	-7.71	1.37	1.46
8	S	105	LEU	CA-C	-7.71	1.42	1.52
3	B	406	SER	CA-C	-7.71	1.42	1.52
3	I	457	MET	CA-C	-7.71	1.42	1.52
3	B	777	THR	CA-C	-7.70	1.43	1.52
3	I	393	LYS	CA-C	-7.70	1.42	1.52
3	I	761	VAL	N-CA	-7.70	1.37	1.46
3	B	177	ILE	CA-C	-7.70	1.42	1.52
4	J	566	TYR	CA-C	-7.70	1.43	1.52
4	J	573	LEU	N-CA	-7.70	1.36	1.46
7	Q	220	ARG	CA-C	-7.70	1.42	1.52
3	B	761	VAL	N-CA	-7.70	1.37	1.46
6	R	31	THR	CA-C	-7.70	1.42	1.52
3	B	94	LEU	CA-C	-7.68	1.42	1.52
4	C	774	ARG	CA-C	-7.68	1.42	1.52
3	I	177	ILE	CA-C	-7.68	1.42	1.52
3	I	447	ASP	CA-C	-7.68	1.42	1.52
7	G	69	ALA	CA-C	-7.68	1.42	1.52
4	C	484	SER	CA-C	-7.68	1.42	1.52
4	C	566	TYR	CA-C	-7.68	1.43	1.52
3	B	393	LYS	CA-C	-7.67	1.42	1.52
4	C	573	LEU	N-CA	-7.67	1.36	1.46
3	I	870	VAL	N-CA	-7.67	1.37	1.46
3	I	379	VAL	N-CA	-7.67	1.37	1.46
6	R	108	GLN	CA-C	-7.67	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	K	105	VAL	CA-C	-7.67	1.41	1.52
7	K	215	ILE	CA-C	-7.66	1.43	1.52
8	U	68	VAL	CA-C	-7.66	1.43	1.52
8	Z	68	VAL	CA-C	-7.65	1.43	1.52
8	Z	29	LYS	CA-C	-7.64	1.43	1.52
7	Q	105	VAL	CA-C	-7.64	1.41	1.52
4	J	326	ASN	CA-C	-7.63	1.42	1.52
7	Q	164	LEU	CA-C	-7.63	1.42	1.52
3	B	457	MET	CA-C	-7.63	1.42	1.52
3	I	450	ARG	CA-C	-7.63	1.42	1.52
4	C	326	ASN	CA-C	-7.62	1.42	1.52
4	C	690	LEU	CA-C	-7.62	1.43	1.52
6	P	73	ARG	CA-C	-7.62	1.43	1.52
4	J	774	ARG	CA-C	-7.62	1.42	1.52
7	Q	55	ILE	N-CA	-7.62	1.37	1.46
7	Q	215	ILE	CA-C	-7.62	1.43	1.52
7	K	220	ARG	CA-C	-7.61	1.43	1.52
4	J	690	LEU	CA-C	-7.61	1.43	1.52
5	D	235	VAL	CA-C	-7.61	1.43	1.52
5	D	64	LEU	CA-C	-7.61	1.43	1.52
5	N	235	VAL	CA-C	-7.61	1.43	1.52
7	K	164	LEU	CA-C	-7.61	1.42	1.52
4	J	588	LEU	N-CA	-7.60	1.36	1.46
8	S	51	LYS	CA-C	-7.60	1.43	1.52
1	A	486	VAL	CA-C	-7.60	1.43	1.52
3	B	450	ARG	CA-C	-7.60	1.42	1.52
3	B	272	SER	CA-C	-7.60	1.42	1.52
3	B	761	VAL	CA-C	-7.59	1.43	1.52
7	G	475	PHE	CA-C	-7.59	1.43	1.52
4	C	588	LEU	N-CA	-7.59	1.36	1.46
5	N	84	ARG	CA-C	-7.59	1.43	1.52
1	H	486	VAL	CA-C	-7.59	1.43	1.52
4	J	222	VAL	N-CA	-7.59	1.37	1.46
7	G	168	LYS	CA-C	-7.59	1.43	1.52
5	D	84	ARG	CA-C	-7.58	1.43	1.52
4	C	222	VAL	N-CA	-7.58	1.37	1.46
3	I	761	VAL	CA-C	-7.58	1.43	1.52
7	Q	77	PHE	CA-C	-7.58	1.44	1.53
4	C	691	HIS	CA-C	-7.57	1.43	1.52
6	R	37	LEU	N-CA	-7.57	1.37	1.46
8	L	51	LYS	CA-C	-7.56	1.43	1.52
5	N	64	LEU	CA-C	-7.56	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	R	31	THR	N-CA	-7.56	1.37	1.46
8	U	29	LYS	CA-C	-7.56	1.43	1.52
6	R	153	TRP	CA-C	-7.55	1.43	1.52
6	M	89	ILE	CA-C	-7.55	1.43	1.52
6	R	69	GLY	CA-C	-7.55	1.44	1.52
7	K	55	ILE	N-CA	-7.55	1.37	1.46
7	K	77	PHE	CA-C	-7.55	1.44	1.53
3	I	272	SER	CA-C	-7.55	1.42	1.52
7	G	144	MET	CA-C	-7.54	1.43	1.52
8	S	112	ARG	CA-C	-7.54	1.43	1.52
8	U	25	ARG	CA-C	-7.54	1.43	1.52
1	H	23	TRP	CA-C	-7.54	1.43	1.52
8	L	112	ARG	CA-C	-7.53	1.43	1.52
8	Z	25	ARG	CA-C	-7.53	1.43	1.52
1	A	23	TRP	CA-C	-7.52	1.43	1.52
6	F	73	ARG	CA-C	-7.52	1.43	1.52
6	T	89	ILE	CA-C	-7.52	1.43	1.52
4	J	691	HIS	CA-C	-7.51	1.43	1.52
8	S	46	LYS	CA-C	-7.51	1.43	1.52
5	D	236	ASP	CA-C	-7.50	1.43	1.52
7	G	108	SER	N-CA	-7.50	1.37	1.46
3	B	507	GLU	CA-C	-7.50	1.43	1.52
7	G	255	ILE	CA-C	-7.50	1.43	1.52
3	I	745	ALA	CA-C	-7.50	1.43	1.52
3	B	303	LEU	CA-C	-7.50	1.43	1.52
8	S	101	LEU	N-CA	-7.49	1.37	1.46
8	L	101	LEU	N-CA	-7.49	1.37	1.46
3	I	759	LEU	CA-C	-7.49	1.43	1.52
3	B	341	LEU	CA-C	-7.49	1.42	1.52
7	Q	215	ILE	N-CA	-7.49	1.37	1.46
8	Z	46	LYS	CA-C	-7.48	1.43	1.52
1	H	595	THR	N-CA	-7.48	1.35	1.45
3	I	341	LEU	CA-C	-7.48	1.42	1.52
1	A	538	SER	CA-C	-7.48	1.42	1.52
3	B	759	LEU	CA-C	-7.48	1.43	1.52
8	U	46	LYS	CA-C	-7.48	1.43	1.52
4	C	205	GLY	CA-C	-7.47	1.45	1.52
4	C	495	VAL	N-CA	-7.47	1.37	1.46
6	R	26	ASP	N-CA	-7.46	1.36	1.46
7	G	366	SER	CA-C	-7.46	1.43	1.52
1	H	538	SER	CA-C	-7.46	1.42	1.52
4	J	202	LEU	CA-C	-7.46	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	M	169	GLY	CA-C	-7.46	1.44	1.52
3	B	452	LEU	CA-C	-7.46	1.43	1.52
3	I	303	LEU	CA-C	-7.46	1.43	1.52
3	I	507	GLU	CA-C	-7.46	1.43	1.52
7	K	121	ARG	N-CA	-7.45	1.37	1.46
4	J	205	GLY	CA-C	-7.45	1.45	1.52
7	Q	107	SER	N-CA	-7.45	1.37	1.46
4	C	69	LYS	CA-C	-7.44	1.42	1.52
4	J	495	VAL	N-CA	-7.44	1.37	1.46
7	G	80	ASN	CA-C	-7.43	1.42	1.52
3	I	452	LEU	CA-C	-7.43	1.43	1.52
5	N	236	ASP	CA-C	-7.43	1.43	1.52
6	R	42	VAL	C-N	7.43	1.43	1.33
7	K	215	ILE	N-CA	-7.43	1.37	1.46
7	Q	675	GLU	CA-C	-7.43	1.43	1.52
8	L	46	LYS	CA-C	-7.42	1.43	1.52
4	J	69	LYS	CA-C	-7.42	1.42	1.52
1	A	322	GLU	CA-C	-7.42	1.42	1.52
7	K	107	SER	N-CA	-7.42	1.37	1.46
7	Q	774	ALA	CA-C	-7.42	1.43	1.52
4	J	81	ILE	CA-C	-7.42	1.43	1.52
1	A	595	THR	N-CA	-7.42	1.35	1.45
7	K	774	ALA	CA-C	-7.42	1.43	1.52
4	C	81	ILE	CA-C	-7.41	1.43	1.52
8	L	121	LEU	CA-C	-7.41	1.43	1.52
7	G	525	ARG	CA-C	-7.41	1.43	1.52
1	A	673	CYS	CA-C	-7.41	1.43	1.52
4	J	181	LEU	CA-C	-7.41	1.43	1.52
7	G	774	ALA	CA-C	-7.40	1.43	1.52
4	J	717	GLU	N-CA	-7.40	1.37	1.46
4	C	155	ASN	CA-C	-7.40	1.42	1.52
3	B	745	ALA	CA-C	-7.39	1.43	1.52
4	C	181	LEU	CA-C	-7.39	1.43	1.52
4	J	450	TYR	CA-C	-7.39	1.43	1.52
6	T	169	GLY	CA-C	-7.39	1.44	1.52
7	Q	219	THR	CA-C	-7.38	1.43	1.52
4	C	450	TYR	CA-C	-7.38	1.43	1.52
7	G	182	GLN	CA-C	-7.38	1.43	1.52
4	J	155	ASN	CA-C	-7.38	1.42	1.52
1	H	673	CYS	CA-C	-7.38	1.43	1.52
7	K	219	THR	CA-C	-7.38	1.43	1.52
4	J	575	LEU	CA-C	-7.37	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	177	TRP	CA-C	-7.37	1.42	1.52
7	G	675	GLU	CA-C	-7.37	1.43	1.52
3	I	125	GLN	CA-C	-7.37	1.42	1.52
3	B	125	GLN	CA-C	-7.37	1.42	1.52
7	K	611	GLU	CA-C	-7.37	1.43	1.52
4	C	202	LEU	CA-C	-7.37	1.43	1.52
7	K	707	TYR	CA-C	-7.36	1.43	1.52
4	J	316	TRP	CA-C	-7.36	1.43	1.52
1	H	322	GLU	CA-C	-7.36	1.42	1.52
5	N	100	ASN	CA-C	-7.36	1.43	1.52
7	G	251	LEU	CA-C	-7.36	1.43	1.52
7	G	707	TYR	CA-C	-7.36	1.43	1.52
7	Q	707	TYR	CA-C	-7.36	1.43	1.52
7	Q	121	ARG	N-CA	-7.36	1.37	1.46
7	G	174	VAL	N-CA	-7.35	1.37	1.46
6	R	98	SER	CA-C	-7.35	1.43	1.52
7	Q	106	THR	CA-C	-7.35	1.43	1.52
4	C	276	CYS	CA-C	-7.35	1.43	1.52
5	D	100	ASN	CA-C	-7.35	1.43	1.52
6	M	74	ILE	CA-C	-7.35	1.43	1.52
4	C	575	LEU	CA-C	-7.35	1.43	1.52
7	Q	611	GLU	CA-C	-7.35	1.43	1.52
3	B	461	PHE	N-CA	-7.34	1.37	1.46
7	K	36	GLU	CA-C	-7.34	1.43	1.52
7	K	675	GLU	CA-C	-7.34	1.43	1.52
8	S	121	LEU	CA-C	-7.34	1.43	1.52
6	T	74	ILE	CA-C	-7.34	1.43	1.52
7	G	93	LYS	CA-C	-7.33	1.42	1.52
1	A	427	ALA	CA-C	-7.33	1.43	1.52
7	G	179	ASN	CA-C	-7.33	1.43	1.52
7	G	471	LYS	CA-C	-7.33	1.43	1.52
7	G	611	GLU	CA-C	-7.33	1.43	1.52
8	U	91	MET	CA-C	-7.33	1.43	1.52
7	Q	36	GLU	CA-C	-7.33	1.43	1.52
1	H	543	TYR	N-CA	-7.32	1.36	1.45
4	C	563	LEU	CA-C	-7.32	1.43	1.52
6	F	60	ASN	CA-C	-7.32	1.43	1.53
5	N	94	CYS	CA-C	-7.32	1.43	1.52
7	K	106	THR	CA-C	-7.31	1.43	1.52
7	Q	263	HIS	CA-C	-7.31	1.45	1.53
4	C	717	GLU	N-CA	-7.30	1.37	1.46
3	I	461	PHE	N-CA	-7.30	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	276	CYS	CA-C	-7.30	1.43	1.52
6	T	128	GLN	CA-C	-7.30	1.42	1.52
1	H	427	ALA	CA-C	-7.30	1.43	1.52
8	Z	91	MET	CA-C	-7.29	1.43	1.52
6	P	60	ASN	CA-C	-7.29	1.43	1.53
8	U	77	PHE	CA-C	-7.29	1.44	1.52
6	F	149	ARG	CA-C	-7.29	1.43	1.52
1	H	766	GLY	CA-C	-7.29	1.41	1.51
4	J	563	LEU	CA-C	-7.29	1.43	1.52
3	B	182	GLU	CA-C	-7.28	1.43	1.52
3	I	804	VAL	N-CA	-7.28	1.37	1.46
1	A	472	ILE	CA-C	-7.27	1.43	1.52
1	H	683	LEU	N-CA	-7.27	1.37	1.46
1	A	603	LEU	CA-C	-7.27	1.43	1.52
1	A	683	LEU	N-CA	-7.27	1.37	1.46
1	H	472	ILE	CA-C	-7.27	1.43	1.52
1	A	766	GLY	CA-C	-7.27	1.41	1.51
7	K	263	HIS	CA-C	-7.27	1.45	1.53
4	C	316	TRP	CA-C	-7.27	1.43	1.52
4	J	315	ILE	CA-C	-7.26	1.44	1.52
6	T	36	LYS	CA-C	-7.26	1.43	1.52
7	G	88	CYS	CA-C	-7.26	1.43	1.52
7	K	89	TYR	CA-C	-7.26	1.43	1.52
6	R	64	THR	CA-C	-7.26	1.43	1.52
1	H	551	TYR	CA-C	-7.26	1.43	1.52
4	C	260	THR	CA-C	-7.25	1.43	1.53
5	D	94	CYS	CA-C	-7.25	1.43	1.52
7	G	148	ILE	CA-C	-7.25	1.43	1.52
1	A	551	TYR	CA-C	-7.25	1.43	1.52
5	D	80	LEU	CA-C	-7.25	1.43	1.52
1	H	603	LEU	CA-C	-7.25	1.43	1.52
6	M	128	GLN	CA-C	-7.25	1.42	1.52
7	K	309	ARG	CA-C	-7.25	1.44	1.52
1	A	543	TYR	N-CA	-7.24	1.36	1.45
6	M	36	LYS	CA-C	-7.24	1.43	1.52
1	H	21	ARG	N-CA	-7.24	1.40	1.46
1	A	244	THR	N-CA	-7.24	1.37	1.46
7	G	306	ALA	CA-C	-7.24	1.43	1.52
4	J	641	PRO	CA-C	-7.23	1.41	1.52
6	R	155	ILE	N-CA	-7.23	1.37	1.46
4	J	260	THR	CA-C	-7.23	1.43	1.53
5	N	80	LEU	CA-C	-7.23	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	R	171	GLU	N-CA	-7.23	1.37	1.46
1	H	244	THR	N-CA	-7.23	1.37	1.46
6	P	149	ARG	CA-C	-7.23	1.43	1.52
3	B	771	CYS	N-CA	-7.22	1.36	1.46
7	Q	89	TYR	CA-C	-7.22	1.43	1.52
7	G	845	ARG	CA-C	-7.22	1.43	1.52
8	L	93	VAL	N-CA	-7.22	1.37	1.46
3	I	400	ARG	CA-C	-7.22	1.43	1.52
1	A	578	VAL	CA-C	-7.22	1.44	1.52
7	Q	70	PHE	CA-C	-7.22	1.43	1.52
3	B	310	ASN	CA-C	-7.21	1.42	1.52
6	R	36	LYS	N-CA	-7.21	1.37	1.46
1	H	35	LEU	CA-C	-7.21	1.44	1.52
6	F	77	LEU	CA-C	-7.20	1.44	1.52
3	B	837	ILE	N-CA	-7.20	1.37	1.46
8	Z	77	PHE	CA-C	-7.20	1.44	1.52
1	A	35	LEU	CA-C	-7.20	1.44	1.52
3	B	804	VAL	N-CA	-7.20	1.37	1.46
7	K	70	PHE	CA-C	-7.20	1.43	1.52
8	S	91	MET	CA-C	-7.20	1.43	1.52
1	H	578	VAL	CA-C	-7.20	1.44	1.52
6	T	46	ILE	CA-C	-7.20	1.47	1.53
4	J	215	ASP	CA-C	-7.19	1.44	1.52
7	G	750	GLU	CA-C	-7.19	1.44	1.52
3	I	771	CYS	N-CA	-7.19	1.36	1.46
3	B	817	ASN	CA-C	-7.19	1.43	1.52
6	M	46	ILE	CA-C	-7.18	1.47	1.53
4	C	641	PRO	CA-C	-7.18	1.41	1.52
7	K	143	TYR	CA-C	-7.18	1.43	1.52
7	Q	309	ARG	CA-C	-7.18	1.44	1.52
7	Q	845	ARG	CA-C	-7.18	1.43	1.52
4	C	776	ASN	CA-C	-7.17	1.43	1.52
8	L	91	MET	CA-C	-7.17	1.43	1.52
3	I	370	GLU	CA-C	-7.17	1.43	1.52
3	I	435	VAL	CA-C	-7.17	1.44	1.52
6	T	153	TRP	CA-C	-7.17	1.43	1.52
3	B	400	ARG	CA-C	-7.17	1.43	1.52
3	I	182	GLU	CA-C	-7.17	1.43	1.52
7	K	218	PHE	CA-C	-7.17	1.42	1.52
8	S	95	ASN	N-CA	-7.16	1.37	1.46
6	R	85	THR	CA-C	-7.16	1.43	1.52
7	K	845	ARG	CA-C	-7.16	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	P	77	LEU	CA-C	-7.16	1.44	1.52
7	Q	268	TYR	CA-C	-7.16	1.43	1.52
3	I	227	CYS	CA-C	-7.16	1.42	1.52
1	A	21	ARG	N-CA	-7.16	1.41	1.46
7	G	460	GLY	CA-C	-7.16	1.43	1.51
6	R	36	LYS	CA-C	-7.16	1.43	1.52
8	S	93	VAL	N-CA	-7.16	1.37	1.46
4	C	188	VAL	CA-C	-7.15	1.43	1.52
3	B	370	GLU	CA-C	-7.15	1.43	1.52
3	I	800	ILE	CA-C	-7.15	1.44	1.52
4	J	567	ILE	CA-C	-7.15	1.47	1.53
3	I	817	ASN	CA-C	-7.15	1.43	1.52
3	I	948	SER	CA-C	-7.15	1.43	1.52
4	C	471	SER	CA-C	-7.14	1.43	1.53
3	I	310	ASN	CA-C	-7.14	1.43	1.52
3	B	948	SER	CA-C	-7.14	1.43	1.52
3	B	363	VAL	N-CA	-7.14	1.38	1.46
4	C	315	ILE	CA-C	-7.14	1.44	1.52
7	K	268	TYR	CA-C	-7.13	1.43	1.52
8	L	95	ASN	N-CA	-7.13	1.37	1.46
8	U	45	GLU	CA-C	-7.13	1.43	1.52
6	M	153	TRP	CA-C	-7.13	1.44	1.52
3	I	363	VAL	N-CA	-7.13	1.38	1.46
4	J	188	VAL	CA-C	-7.13	1.43	1.52
4	J	776	ASN	CA-C	-7.12	1.43	1.52
7	Q	218	PHE	CA-C	-7.12	1.42	1.52
3	B	435	VAL	CA-C	-7.12	1.44	1.52
8	Z	45	GLU	CA-C	-7.12	1.43	1.52
4	J	543	LEU	CA-C	-7.12	1.44	1.52
8	Z	87	GLU	CA-C	-7.12	1.43	1.52
6	R	43	ILE	CA-C	7.12	1.61	1.52
3	I	837	ILE	N-CA	-7.12	1.37	1.46
4	C	543	LEU	CA-C	-7.11	1.44	1.52
6	M	29	GLY	CA-C	-7.11	1.42	1.51
8	U	27	PHE	CA-C	-7.11	1.43	1.52
8	U	87	GLU	CA-C	-7.11	1.43	1.52
3	B	227	CYS	CA-C	-7.11	1.43	1.52
5	D	61	MET	N-CA	-7.11	1.38	1.46
4	C	215	ASP	CA-C	-7.11	1.44	1.52
4	C	367	VAL	N-CA	-7.11	1.37	1.46
7	Q	143	TYR	CA-C	-7.11	1.43	1.52
4	C	407	GLU	CA-C	-7.10	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	943	ARG	CA-C	-7.10	1.44	1.52
7	K	750	GLU	CA-C	-7.10	1.44	1.52
1	A	66	PHE	CA-C	-7.09	1.44	1.52
8	Z	27	PHE	CA-C	-7.09	1.43	1.52
7	G	397	LEU	CA-C	-7.09	1.43	1.52
4	J	257	HIS	N-CA	-7.09	1.37	1.46
5	N	61	MET	N-CA	-7.09	1.38	1.46
7	G	522	ASN	CA-C	-7.09	1.43	1.52
4	J	471	SER	CA-C	-7.09	1.43	1.53
6	F	166	LEU	CA-C	-7.08	1.43	1.52
6	T	29	GLY	CA-C	-7.08	1.42	1.51
4	C	257	HIS	N-CA	-7.07	1.37	1.46
4	J	327	LEU	CA-C	-7.07	1.43	1.52
5	N	57	VAL	CA-C	-7.07	1.44	1.52
8	Z	102	SER	N-CA	-7.07	1.38	1.46
4	J	367	VAL	N-CA	-7.07	1.37	1.46
7	Q	750	GLU	CA-C	-7.06	1.44	1.52
6	R	111	LEU	N-CA	-7.06	1.37	1.46
1	A	672	ASN	CA-C	-7.06	1.43	1.52
1	H	66	PHE	CA-C	-7.06	1.44	1.52
7	G	255	ILE	N-CA	-7.05	1.38	1.46
7	G	390	TYR	N-CA	-7.05	1.40	1.46
4	J	15	SER	CA-C	-7.05	1.47	1.53
4	J	407	GLU	CA-C	-7.04	1.43	1.52
3	B	800	ILE	CA-C	-7.04	1.44	1.52
1	H	672	ASN	CA-C	-7.04	1.43	1.52
3	I	943	ARG	CA-C	-7.04	1.44	1.52
6	M	77	LEU	CA-C	-7.04	1.43	1.52
4	C	567	ILE	CA-C	-7.04	1.47	1.53
8	U	104	MET	CA-C	-7.04	1.43	1.52
8	U	102	SER	N-CA	-7.04	1.38	1.46
4	J	165	ARG	CA-C	-7.04	1.43	1.52
3	I	409	PHE	CA-C	-7.03	1.44	1.52
4	C	327	LEU	CA-C	-7.03	1.43	1.52
8	Z	104	MET	CA-C	-7.03	1.43	1.52
3	B	437	GLU	CA-C	-7.03	1.43	1.52
7	G	284	GLU	CA-C	-7.02	1.43	1.52
6	P	166	LEU	CA-C	-7.02	1.44	1.52
4	J	840	LYS	CA-C	-7.02	1.44	1.52
6	T	77	LEU	CA-C	-7.02	1.43	1.52
6	F	167	TYR	N-CA	-7.02	1.37	1.46
1	H	757	LEU	CA-C	-7.02	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Q	79	SER	CA-C	-7.01	1.44	1.52
4	C	840	LYS	CA-C	-7.01	1.44	1.52
3	I	381	LYS	N-CA	-7.01	1.37	1.46
7	G	526	ASP	CA-C	-7.01	1.43	1.52
3	I	181	PHE	CA-C	-7.00	1.43	1.52
3	B	381	LYS	N-CA	-7.00	1.37	1.46
7	G	347	THR	CA-C	-7.00	1.43	1.52
4	C	533	CYS	CA-C	-7.00	1.43	1.52
7	K	79	SER	CA-C	-7.00	1.44	1.52
1	A	243	ASP	N-CA	-7.00	1.37	1.46
4	C	15	SER	CA-C	-7.00	1.47	1.53
5	D	57	VAL	CA-C	-6.99	1.44	1.52
6	P	167	TYR	N-CA	-6.99	1.37	1.46
8	L	122	PHE	CA-C	-6.99	1.44	1.52
8	S	123	LEU	CA-C	-6.99	1.43	1.52
7	K	825	THR	C-N	6.99	1.42	1.33
3	B	409	PHE	CA-C	-6.99	1.44	1.52
4	C	165	ARG	CA-C	-6.99	1.43	1.52
3	B	261	ILE	CA-C	-6.99	1.44	1.52
3	B	850	CYS	CA-C	6.98	1.61	1.52
3	I	437	GLU	CA-C	-6.98	1.43	1.52
8	U	27	PHE	N-CA	-6.97	1.37	1.46
8	S	122	PHE	CA-C	-6.97	1.44	1.52
3	B	181	PHE	CA-C	-6.97	1.43	1.52
5	N	236	ASP	N-CA	-6.97	1.38	1.46
8	U	18	ILE	CA-C	-6.97	1.43	1.52
7	G	248	ASP	N-CA	-6.97	1.37	1.46
4	C	190	CYS	CA-C	-6.97	1.44	1.52
6	F	53	VAL	CA-C	-6.97	1.44	1.52
7	G	210	ALA	CA-C	-6.96	1.43	1.52
6	P	53	VAL	CA-C	-6.96	1.44	1.52
5	D	236	ASP	N-CA	-6.96	1.38	1.46
4	C	439	LEU	CA-C	-6.96	1.43	1.52
8	Z	27	PHE	N-CA	-6.96	1.37	1.46
4	J	190	CYS	CA-C	-6.96	1.44	1.52
1	A	757	LEU	CA-C	-6.96	1.43	1.52
1	H	243	ASP	N-CA	-6.96	1.37	1.46
4	J	493	GLU	CA-C	-6.96	1.43	1.52
3	I	261	ILE	CA-C	-6.96	1.44	1.52
4	J	533	CYS	CA-C	-6.96	1.43	1.52
3	B	371	LEU	CA-C	-6.95	1.44	1.52
8	Z	18	ILE	CA-C	-6.95	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	S	99	ASP	CA-C	-6.95	1.44	1.52
3	B	378	GLU	N-CA	-6.95	1.38	1.46
8	Z	69	TYR	N-CA	-6.95	1.37	1.45
6	F	151	ARG	CA-C	-6.95	1.44	1.52
6	P	151	ARG	CA-C	-6.95	1.44	1.52
4	C	493	GLU	CA-C	-6.95	1.43	1.52
7	K	54	LEU	CA-C	-6.95	1.43	1.52
3	I	371	LEU	CA-C	-6.95	1.44	1.52
4	C	534	PHE	N-CA	-6.94	1.37	1.46
7	K	290	SER	CA-C	-6.94	1.44	1.52
8	L	123	LEU	CA-C	-6.93	1.43	1.52
7	Q	825	THR	C-N	6.93	1.42	1.33
4	J	534	PHE	N-CA	-6.93	1.37	1.46
4	C	386	LYS	N-CA	-6.93	1.38	1.46
8	Z	78	TYR	N-CA	-6.93	1.37	1.46
3	I	850	CYS	CA-C	6.92	1.60	1.52
4	C	177	PRO	CA-C	-6.92	1.45	1.52
8	U	69	TYR	N-CA	-6.92	1.37	1.45
4	C	119	ASP	CA-C	-6.92	1.42	1.52
4	J	439	LEU	CA-C	-6.92	1.43	1.52
8	U	78	TYR	N-CA	-6.92	1.37	1.46
4	J	716	ALA	CA-C	-6.92	1.43	1.52
8	S	141	GLN	N-CA	-6.92	1.38	1.46
3	B	399	VAL	N-CA	-6.92	1.38	1.46
4	C	154	ASP	N-CA	-6.92	1.37	1.46
4	C	382	ALA	N-CA	-6.92	1.37	1.46
7	Q	200	LEU	N-CA	-6.92	1.38	1.46
7	Q	290	SER	CA-C	-6.92	1.44	1.52
4	C	593	GLU	CA-C	-6.91	1.43	1.52
8	L	53	HIS	N-CA	-6.91	1.37	1.46
3	I	340	ILE	N-CA	-6.91	1.38	1.46
7	G	825	THR	C-N	6.91	1.42	1.33
8	L	99	ASP	CA-C	-6.91	1.44	1.52
1	H	569	TYR	N-CA	-6.91	1.37	1.46
3	B	340	ILE	N-CA	-6.91	1.38	1.46
8	L	141	GLN	N-CA	-6.91	1.38	1.46
5	N	100	ASN	N-CA	-6.91	1.38	1.46
7	Q	54	LEU	CA-C	-6.91	1.43	1.52
4	C	477	VAL	CA-C	-6.90	1.44	1.52
4	C	716	ALA	CA-C	-6.90	1.43	1.52
3	I	378	GLU	N-CA	-6.90	1.38	1.46
4	J	119	ASP	CA-C	-6.90	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	154	ASP	N-CA	-6.90	1.37	1.46
3	I	399	VAL	N-CA	-6.90	1.38	1.46
7	G	239	GLN	N-CA	-6.89	1.38	1.46
1	A	568	ILE	CA-C	-6.89	1.44	1.52
7	K	200	LEU	N-CA	-6.89	1.38	1.46
4	C	347	ASP	CA-C	-6.88	1.43	1.53
1	H	554	THR	CA-C	6.88	1.60	1.52
4	J	382	ALA	N-CA	-6.88	1.37	1.46
3	I	435	VAL	N-CA	-6.87	1.38	1.46
3	B	435	VAL	N-CA	-6.87	1.38	1.46
3	B	782	LYS	CA-C	-6.87	1.44	1.52
6	T	70	GLY	CA-C	-6.87	1.42	1.51
1	A	569	TYR	N-CA	-6.87	1.37	1.46
4	C	138	PHE	CA-C	-6.87	1.44	1.52
3	B	763	GLN	CA-C	-6.87	1.42	1.52
3	I	763	GLN	CA-C	-6.87	1.42	1.52
6	M	70	GLY	CA-C	-6.87	1.42	1.51
8	L	143	VAL	N-CA	-6.86	1.38	1.46
3	I	782	LYS	CA-C	-6.86	1.44	1.52
7	G	680	GLN	CA-C	-6.86	1.43	1.52
4	J	384	ARG	N-CA	-6.86	1.37	1.45
4	J	138	PHE	CA-C	-6.86	1.44	1.52
4	J	347	ASP	CA-C	-6.86	1.43	1.53
4	J	177	PRO	CA-C	-6.86	1.45	1.52
6	P	68	VAL	CA-C	-6.86	1.44	1.52
4	J	593	GLU	CA-C	-6.86	1.44	1.52
7	G	45	ALA	CA-C	-6.85	1.43	1.52
8	S	23	GLY	CA-C	-6.85	1.42	1.51
8	L	134	ILE	CA-C	-6.85	1.44	1.52
1	H	568	ILE	CA-C	-6.85	1.44	1.52
8	L	23	GLY	CA-C	-6.85	1.42	1.51
1	A	630	GLN	CA-C	-6.85	1.42	1.52
8	L	104	MET	CA-C	-6.85	1.44	1.52
4	J	478	CYS	CA-C	-6.85	1.44	1.52
3	B	958	LYS	CA-C	-6.85	1.44	1.52
7	Q	680	GLN	CA-C	-6.85	1.43	1.52
1	A	554	THR	CA-C	6.84	1.60	1.52
8	S	104	MET	CA-C	-6.84	1.44	1.52
6	T	168	GLU	CA-C	-6.84	1.43	1.52
4	J	386	LYS	N-CA	-6.84	1.38	1.46
3	B	319	ARG	CA-C	-6.84	1.43	1.52
7	K	706	CYS	CA-C	-6.84	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	190	GLU	CA-C	-6.84	1.44	1.52
5	N	27	THR	CA-C	-6.84	1.43	1.52
7	Q	706	CYS	CA-C	-6.84	1.44	1.52
8	S	53	HIS	N-CA	-6.84	1.37	1.46
4	C	418	PHE	CA-C	-6.84	1.44	1.53
7	Q	234	ARG	C-N	-6.84	1.25	1.33
8	S	143	VAL	N-CA	-6.84	1.38	1.46
4	C	202	LEU	N-CA	-6.84	1.37	1.45
5	D	100	ASN	N-CA	-6.84	1.38	1.46
1	A	590	LEU	CA-C	-6.83	1.44	1.52
1	H	590	LEU	CA-C	-6.83	1.44	1.52
6	F	68	VAL	CA-C	-6.83	1.44	1.52
4	J	202	LEU	N-CA	-6.83	1.37	1.45
5	D	27	THR	CA-C	-6.83	1.43	1.52
7	K	680	GLN	CA-C	-6.83	1.43	1.52
8	L	27	PHE	N-CA	-6.82	1.37	1.46
4	C	384	ARG	N-CA	-6.82	1.37	1.45
3	B	190	GLU	CA-C	-6.82	1.44	1.52
4	J	477	VAL	CA-C	-6.82	1.44	1.52
7	G	379	VAL	N-CA	-6.82	1.38	1.46
3	B	163	HIS	CA-C	-6.82	1.44	1.52
4	C	478	CYS	CA-C	-6.82	1.44	1.52
3	I	163	HIS	CA-C	-6.82	1.44	1.52
4	J	263	LEU	CA-C	-6.82	1.44	1.52
1	A	202	GLU	CA-C	-6.81	1.44	1.52
8	S	108	ASN	CA-C	-6.81	1.44	1.52
3	B	416	VAL	CA-C	-6.81	1.44	1.52
3	I	958	LYS	CA-C	-6.81	1.44	1.52
8	S	134	ILE	CA-C	-6.81	1.44	1.52
4	C	263	LEU	CA-C	-6.81	1.44	1.52
7	G	860	SER	CA-C	-6.81	1.44	1.52
8	L	108	ASN	CA-C	-6.81	1.44	1.52
4	J	438	LEU	CA-C	-6.81	1.44	1.52
1	H	630	GLN	CA-C	-6.81	1.42	1.52
1	H	665	ALA	CA-C	-6.81	1.44	1.52
1	A	665	ALA	CA-C	-6.80	1.44	1.52
6	M	88	VAL	CA-C	-6.80	1.43	1.52
8	S	134	ILE	N-CA	-6.80	1.38	1.46
1	H	615	VAL	N-CA	-6.80	1.37	1.46
4	J	390	SER	CA-C	-6.80	1.44	1.52
6	T	88	VAL	CA-C	-6.80	1.43	1.52
7	K	234	ARG	C-N	-6.80	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	319	ARG	CA-C	-6.80	1.44	1.52
7	G	22	LEU	CA-C	-6.79	1.44	1.52
5	N	85	LEU	CA-C	-6.79	1.44	1.52
1	A	629	LEU	CA-C	-6.79	1.43	1.52
3	B	407	VAL	CA-C	-6.79	1.44	1.52
3	I	437	GLU	N-CA	-6.79	1.38	1.46
5	D	85	LEU	CA-C	-6.79	1.44	1.52
4	C	438	LEU	CA-C	-6.78	1.44	1.52
3	I	416	VAL	CA-C	-6.78	1.44	1.52
4	J	439	LEU	N-CA	-6.78	1.37	1.46
4	C	403	TYR	N-CA	-6.78	1.37	1.45
7	G	706	CYS	CA-C	-6.78	1.44	1.52
3	I	407	VAL	CA-C	-6.78	1.44	1.52
6	M	39	LEU	CA-C	-6.78	1.43	1.52
4	J	418	PHE	CA-C	-6.78	1.44	1.53
8	L	54	ARG	CA-C	-6.77	1.44	1.52
6	M	168	GLU	CA-C	-6.77	1.43	1.52
3	B	151	LEU	CA-C	-6.77	1.43	1.52
7	G	72	ALA	CA-C	-6.77	1.44	1.52
4	J	403	TYR	N-CA	-6.77	1.37	1.45
1	H	202	GLU	CA-C	-6.76	1.44	1.52
4	C	554	ILE	CA-C	-6.76	1.44	1.52
7	K	80	ASN	N-CA	-6.76	1.37	1.46
7	G	175	LYS	N-CA	-6.75	1.38	1.46
3	B	755	VAL	N-CA	-6.75	1.38	1.46
6	P	64	THR	CA-C	-6.75	1.44	1.52
1	A	632	LYS	CA-C	-6.75	1.43	1.52
8	Z	77	PHE	N-CA	-6.74	1.37	1.46
3	I	151	LEU	CA-C	-6.74	1.43	1.52
8	U	77	PHE	N-CA	-6.74	1.37	1.46
5	N	53	SER	CA-C	-6.74	1.43	1.53
3	I	755	VAL	N-CA	-6.74	1.38	1.46
8	S	54	ARG	CA-C	-6.74	1.44	1.52
5	D	53	SER	CA-C	-6.74	1.43	1.53
1	H	629	LEU	CA-C	-6.74	1.43	1.52
1	H	632	LYS	CA-C	-6.73	1.43	1.52
8	S	27	PHE	N-CA	-6.73	1.37	1.46
6	F	64	THR	CA-C	-6.73	1.44	1.52
4	J	368	VAL	CA-C	-6.73	1.44	1.52
8	L	109	VAL	N-CA	-6.73	1.38	1.46
1	A	615	VAL	N-CA	-6.73	1.38	1.46
7	G	259	LEU	N-CA	-6.73	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	342	ARG	CA-C	-6.73	1.43	1.52
7	Q	304	ARG	N-CA	-6.73	1.38	1.46
1	A	465	LEU	N-CA	-6.72	1.37	1.46
3	B	437	GLU	N-CA	-6.72	1.38	1.46
1	H	336	VAL	CA-C	-6.72	1.44	1.52
1	A	77	VAL	CA-C	-6.72	1.44	1.52
3	B	850	CYS	N-CA	6.72	1.54	1.46
3	I	469	ILE	CA-C	-6.72	1.44	1.52
6	T	39	LEU	CA-C	-6.72	1.43	1.52
7	G	236	ALA	CA-C	-6.71	1.43	1.52
1	H	687	HIS	CA-C	-6.71	1.44	1.52
4	C	293	GLY	N-CA	-6.71	1.38	1.45
8	L	31	TYR	N-CA	-6.71	1.38	1.46
7	Q	80	ASN	N-CA	-6.71	1.37	1.46
7	G	145	LYS	CA-C	-6.71	1.44	1.52
1	A	687	HIS	CA-C	-6.71	1.44	1.52
7	G	623	PHE	CA-C	-6.71	1.43	1.52
8	L	134	ILE	N-CA	-6.71	1.38	1.46
4	J	554	ILE	CA-C	-6.71	1.44	1.52
5	N	148	ARG	CA-C	-6.70	1.44	1.52
1	H	465	LEU	N-CA	-6.70	1.37	1.46
4	C	293	GLY	CA-C	-6.70	1.42	1.51
7	G	783	PHE	CA-C	-6.70	1.44	1.52
6	T	54	GLU	CA-C	-6.70	1.44	1.52
1	H	620	LEU	N-CA	-6.70	1.37	1.46
4	C	455	THR	CA-C	-6.70	1.43	1.52
7	K	860	SER	CA-C	-6.70	1.44	1.52
1	A	620	LEU	N-CA	-6.70	1.37	1.46
4	C	439	LEU	N-CA	-6.69	1.37	1.46
1	A	569	TYR	CA-C	-6.69	1.44	1.52
7	G	119	ASN	N-CA	-6.69	1.38	1.46
8	S	31	TYR	N-CA	-6.69	1.38	1.46
4	C	390	SER	CA-C	-6.68	1.44	1.52
7	K	255	ILE	CA-C	-6.68	1.44	1.52
4	J	432	SER	CA-C	-6.68	1.44	1.52
1	H	77	VAL	CA-C	-6.68	1.44	1.52
5	N	60	PRO	CA-C	-6.68	1.44	1.52
7	Q	860	SER	CA-C	-6.68	1.44	1.52
5	D	84	ARG	N-CA	-6.68	1.38	1.46
4	J	293	GLY	CA-C	-6.68	1.42	1.51
7	Q	307	ALA	N-CA	-6.68	1.38	1.46
8	S	104	MET	N-CA	-6.68	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	495	VAL	CA-C	-6.68	1.44	1.52
1	A	336	VAL	CA-C	-6.68	1.44	1.52
3	B	964	LYS	CA-C	-6.68	1.44	1.53
6	R	65	VAL	N-CA	-6.68	1.38	1.46
6	M	54	GLU	CA-C	-6.68	1.44	1.52
1	A	672	ASN	N-CA	-6.67	1.37	1.46
5	D	148	ARG	CA-C	-6.67	1.44	1.52
4	J	293	GLY	N-CA	-6.67	1.39	1.45
1	A	305	LEU	CA-C	-6.67	1.44	1.52
4	J	455	THR	CA-C	-6.67	1.43	1.52
3	B	752	TYR	CA-C	-6.67	1.43	1.52
5	D	60	PRO	CA-C	-6.67	1.44	1.52
4	C	368	VAL	CA-C	-6.67	1.44	1.52
7	G	356	SER	CA-C	-6.67	1.44	1.52
3	I	964	LYS	CA-C	-6.67	1.44	1.53
7	Q	255	ILE	CA-C	-6.67	1.44	1.52
3	B	363	VAL	CA-C	-6.66	1.45	1.53
1	H	672	ASN	N-CA	-6.66	1.37	1.46
8	S	90	LEU	N-CA	-6.66	1.38	1.46
1	H	569	TYR	CA-C	-6.66	1.44	1.52
1	A	342	ARG	CA-C	-6.66	1.43	1.52
4	J	232	VAL	CA-C	-6.66	1.44	1.52
3	I	475	TRP	CA-C	-6.65	1.44	1.52
1	H	628	TYR	CA-C	-6.65	1.43	1.52
4	C	243	ILE	CA-C	-6.65	1.44	1.52
7	G	436	LEU	CA-C	-6.65	1.44	1.52
4	J	476	LEU	CA-C	-6.65	1.44	1.52
3	B	469	ILE	CA-C	-6.65	1.44	1.52
7	K	304	ARG	N-CA	-6.65	1.38	1.46
7	G	731	THR	N-CA	-6.65	1.38	1.46
4	C	476	LEU	CA-C	-6.64	1.44	1.52
8	S	109	VAL	N-CA	-6.64	1.38	1.46
8	Z	140	GLN	CA-C	-6.64	1.44	1.52
8	L	90	LEU	N-CA	-6.64	1.38	1.46
4	J	243	ILE	CA-C	-6.64	1.44	1.52
4	J	244	ILE	N-CA	-6.64	1.38	1.46
1	A	699	ASN	CA-C	-6.64	1.43	1.52
8	L	104	MET	N-CA	-6.64	1.38	1.46
3	I	850	CYS	N-CA	6.64	1.54	1.46
3	B	338	MET	CA-C	-6.64	1.44	1.52
7	G	233	ILE	N-CA	-6.64	1.38	1.46
7	K	731	THR	N-CA	-6.63	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	752	TYR	CA-C	-6.63	1.43	1.52
7	Q	623	PHE	CA-C	-6.63	1.43	1.52
3	B	89	ILE	CA-C	-6.63	1.44	1.52
5	D	65	TYR	CA-C	-6.63	1.44	1.52
4	C	187	GLY	CA-C	-6.63	1.44	1.51
7	K	266	VAL	CA-C	-6.63	1.44	1.52
3	B	744	GLU	CA-C	-6.63	1.44	1.52
7	K	307	ALA	N-CA	-6.63	1.38	1.46
1	H	266	SER	CA-C	-6.63	1.44	1.52
4	C	232	VAL	CA-C	-6.62	1.44	1.52
4	C	257	HIS	CA-C	-6.62	1.44	1.52
7	G	176	ARG	CA-C	-6.62	1.43	1.52
3	I	338	MET	CA-C	-6.62	1.44	1.52
1	A	628	TYR	CA-C	-6.62	1.43	1.52
7	K	623	PHE	CA-C	-6.62	1.43	1.52
1	H	699	ASN	CA-C	-6.62	1.43	1.52
3	I	363	VAL	CA-C	-6.62	1.45	1.53
4	C	244	ILE	N-CA	-6.62	1.38	1.46
4	C	272	GLU	N-CA	-6.62	1.37	1.46
3	B	376	LYS	N-CA	-6.62	1.38	1.46
1	A	597	PHE	CA-C	-6.62	1.44	1.52
3	B	894	THR	C-N	6.62	1.41	1.33
8	L	62	LEU	CA-C	-6.62	1.44	1.52
1	A	661	ALA	N-CA	-6.62	1.38	1.46
8	Z	134	ILE	N-CA	-6.62	1.38	1.46
3	I	894	THR	C-N	6.62	1.41	1.33
3	B	415	ASN	CA-C	-6.61	1.44	1.52
4	C	495	VAL	CA-C	-6.61	1.44	1.52
3	I	376	LYS	N-CA	-6.61	1.38	1.46
7	Q	181	ALA	CA-C	-6.61	1.44	1.52
7	K	181	ALA	CA-C	-6.61	1.44	1.52
7	Q	731	THR	N-CA	-6.61	1.38	1.46
4	C	376	ILE	N-CA	-6.61	1.38	1.46
5	N	65	TYR	CA-C	-6.61	1.44	1.52
7	Q	110	THR	CA-C	-6.60	1.44	1.52
7	Q	201	TYR	N-CA	-6.60	1.38	1.46
6	T	22	MET	CA-C	-6.60	1.44	1.52
7	G	107	SER	N-CA	-6.59	1.38	1.46
1	A	266	SER	CA-C	-6.59	1.44	1.52
5	N	84	ARG	N-CA	-6.59	1.38	1.46
8	U	140	GLN	CA-C	-6.59	1.44	1.52
3	B	402	LEU	CA-C	-6.59	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	K	63	THR	CA-C	-6.59	1.44	1.52
8	S	62	LEU	CA-C	-6.59	1.44	1.52
1	A	286	THR	CA-C	-6.59	1.44	1.52
6	M	41	GLU	CA-C	-6.59	1.44	1.52
3	I	402	LEU	CA-C	-6.59	1.44	1.52
1	H	688	GLN	CA-C	-6.58	1.44	1.52
1	H	305	LEU	CA-C	-6.58	1.44	1.52
1	H	661	ALA	N-CA	-6.58	1.38	1.46
7	G	237	SER	N-CA	-6.58	1.38	1.46
8	S	47	ASN	CA-C	-6.58	1.44	1.52
3	I	744	GLU	CA-C	-6.58	1.44	1.52
3	B	475	TRP	CA-C	-6.58	1.44	1.52
1	H	597	PHE	CA-C	-6.58	1.44	1.52
4	J	257	HIS	CA-C	-6.58	1.44	1.52
3	I	89	ILE	CA-C	-6.58	1.44	1.52
3	I	415	ASN	CA-C	-6.58	1.44	1.52
8	U	134	ILE	N-CA	-6.58	1.38	1.46
1	H	286	THR	CA-C	-6.57	1.44	1.52
4	J	69	LYS	N-CA	-6.57	1.37	1.46
4	J	187	GLY	CA-C	-6.57	1.44	1.51
7	K	110	THR	CA-C	-6.57	1.44	1.52
7	K	783	PHE	CA-C	-6.57	1.44	1.52
1	H	619	LYS	CA-C	-6.57	1.44	1.52
4	J	571	ASN	N-CA	-6.57	1.37	1.46
3	B	392	ASP	CA-C	-6.57	1.44	1.52
8	L	47	ASN	CA-C	-6.57	1.44	1.52
4	J	272	GLU	N-CA	-6.57	1.37	1.46
3	I	392	ASP	CA-C	-6.56	1.44	1.52
6	T	41	GLU	CA-C	-6.55	1.44	1.52
6	F	124	PHE	CA-C	-6.55	1.44	1.52
6	P	124	PHE	CA-C	-6.55	1.44	1.52
3	B	754	ILE	CA-C	-6.55	1.44	1.52
7	Q	783	PHE	CA-C	-6.55	1.44	1.52
4	C	546	TYR	N-CA	-6.55	1.38	1.46
6	R	104	ARG	CA-C	-6.55	1.44	1.52
4	J	546	TYR	N-CA	-6.54	1.38	1.46
7	Q	63	THR	CA-C	-6.54	1.44	1.52
7	G	358	ASP	CA-C	-6.54	1.44	1.52
3	I	754	ILE	CA-C	-6.53	1.44	1.52
1	A	688	GLN	CA-C	-6.53	1.44	1.52
3	I	859	TRP	CA-C	-6.53	1.44	1.52
4	C	69	LYS	N-CA	-6.53	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	91	THR	CA-C	-6.53	1.44	1.52
7	Q	266	VAL	CA-C	-6.53	1.44	1.52
8	L	11	TYR	CA-C	-6.53	1.44	1.52
3	B	859	TRP	CA-C	-6.53	1.44	1.52
7	G	249	SER	CA-C	-6.53	1.45	1.52
4	J	765	GLN	CA-C	-6.53	1.43	1.52
3	B	818	ILE	N-CA	-6.53	1.38	1.46
7	G	54	LEU	CA-C	-6.52	1.44	1.52
3	I	844	TYR	CA-C	-6.52	1.44	1.52
1	A	619	LYS	CA-C	-6.52	1.44	1.52
7	Q	139	ALA	CA-C	-6.52	1.44	1.52
7	K	201	TYR	N-CA	-6.52	1.38	1.46
8	S	11	TYR	CA-C	-6.52	1.44	1.52
7	G	167	LEU	CA-C	-6.52	1.43	1.52
1	H	610	GLU	CA-C	-6.52	1.44	1.52
4	C	115	LEU	CA-C	-6.51	1.45	1.52
5	N	105	HIS	CA-C	-6.51	1.44	1.52
8	U	25	ARG	N-CA	-6.51	1.38	1.46
3	B	750	ASN	CA-C	-6.51	1.44	1.52
3	I	760	VAL	N-CA	-6.51	1.38	1.46
4	J	376	ILE	N-CA	-6.51	1.38	1.46
4	C	432	SER	CA-C	-6.50	1.44	1.52
6	R	54	GLU	CA-C	-6.50	1.44	1.52
4	J	669	LYS	CA-C	-6.50	1.44	1.52
3	B	823	SER	CA-C	-6.50	1.44	1.52
8	Z	15	ALA	N-CA	-6.50	1.37	1.46
4	C	261	TYR	CA-C	-6.50	1.43	1.53
3	I	818	ILE	N-CA	-6.50	1.38	1.46
4	C	458	ILE	CA-C	-6.49	1.43	1.52
7	K	840	ILE	N-CA	-6.49	1.38	1.46
3	I	750	ASN	CA-C	-6.49	1.44	1.52
7	Q	177	TRP	CA-C	-6.49	1.41	1.52
6	M	154	PHE	N-CA	-6.49	1.38	1.46
6	M	22	MET	CA-C	-6.49	1.44	1.52
4	J	458	ILE	CA-C	-6.48	1.43	1.52
3	B	370	GLU	N-CA	-6.48	1.38	1.46
8	Z	121	LEU	CA-C	-6.48	1.44	1.52
7	G	176	ARG	N-CA	-6.47	1.38	1.46
8	Z	25	ARG	N-CA	-6.47	1.38	1.46
4	J	115	LEU	CA-C	-6.47	1.45	1.52
8	U	28	ALA	CA-C	-6.47	1.44	1.52
4	C	9	ARG	N-CA	-6.47	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	669	LYS	CA-C	-6.47	1.44	1.52
4	C	571	ASN	N-CA	-6.47	1.37	1.46
3	B	760	VAL	N-CA	-6.47	1.38	1.46
5	D	105	HIS	CA-C	-6.47	1.44	1.52
3	I	472	GLY	CA-C	-6.47	1.44	1.52
8	L	145	ARG	CA-C	-6.47	1.44	1.52
8	U	15	ALA	N-CA	-6.47	1.37	1.46
7	K	177	TRP	CA-C	-6.46	1.41	1.52
7	K	648	ILE	CA-C	-6.46	1.44	1.52
1	A	245	CYS	CA-C	-6.46	1.44	1.52
4	J	261	TYR	CA-C	-6.46	1.44	1.53
4	J	441	VAL	CA-C	-6.46	1.44	1.52
4	C	519	GLU	CA-C	-6.46	1.44	1.52
7	G	84	LEU	N-CA	-6.46	1.38	1.46
1	H	134	HIS	N-CA	-6.46	1.38	1.46
1	H	200	VAL	CA-C	-6.46	1.44	1.52
3	B	844	TYR	CA-C	-6.46	1.44	1.52
7	K	139	ALA	CA-C	-6.46	1.44	1.52
8	U	46	LYS	N-CA	-6.46	1.38	1.46
7	Q	840	ILE	N-CA	-6.46	1.38	1.46
4	C	642	GLU	CA-C	-6.46	1.44	1.52
1	H	245	CYS	CA-C	-6.46	1.44	1.52
4	J	574	TYR	N-CA	-6.46	1.38	1.46
8	U	121	LEU	CA-C	-6.46	1.44	1.52
1	H	664	ALA	CA-C	-6.45	1.44	1.52
3	I	370	GLU	N-CA	-6.45	1.38	1.46
4	C	547	VAL	N-CA	-6.45	1.38	1.46
8	Z	28	ALA	CA-C	-6.45	1.44	1.52
4	C	441	VAL	CA-C	-6.45	1.44	1.52
4	C	231	ASN	CA-C	-6.45	1.44	1.52
3	I	854	GLU	CA-C	-6.45	1.44	1.52
1	A	518	LEU	CA-C	-6.44	1.44	1.52
3	I	414	ALA	CA-C	-6.44	1.44	1.52
1	A	134	HIS	N-CA	-6.44	1.38	1.46
1	A	573	VAL	CA-C	-6.44	1.44	1.52
4	C	765	GLN	CA-C	-6.44	1.43	1.52
1	H	573	VAL	CA-C	-6.44	1.44	1.52
1	A	613	HIS	N-CA	-6.43	1.38	1.46
7	G	840	ILE	N-CA	-6.43	1.38	1.46
6	R	168	GLU	CA-C	-6.43	1.44	1.52
1	H	36	TRP	CA-C	-6.43	1.44	1.52
1	A	200	VAL	CA-C	-6.43	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	102	ILE	N-CA	-6.43	1.38	1.46
7	Q	648	ILE	CA-C	-6.43	1.44	1.52
4	J	642	GLU	CA-C	-6.43	1.44	1.52
3	B	854	GLU	CA-C	-6.43	1.44	1.52
6	T	154	PHE	N-CA	-6.43	1.38	1.46
7	G	149	VAL	N-CA	-6.43	1.39	1.46
1	A	664	ALA	CA-C	-6.42	1.44	1.52
3	I	152	MET	N-CA	-6.42	1.40	1.46
4	C	574	TYR	N-CA	-6.42	1.38	1.46
4	C	778	SER	N-CA	-6.42	1.38	1.46
4	J	231	ASN	CA-C	-6.42	1.44	1.52
5	N	102	ILE	N-CA	-6.42	1.38	1.46
5	D	151	GLN	CA-C	-6.42	1.44	1.52
1	H	613	HIS	N-CA	-6.42	1.38	1.46
5	N	118	ALA	N-CA	-6.42	1.38	1.46
8	S	46	LYS	N-CA	-6.42	1.38	1.46
1	A	610	GLU	CA-C	-6.42	1.44	1.52
7	G	175	LYS	CA-C	-6.41	1.44	1.52
4	C	76	ALA	CA-C	-6.41	1.44	1.52
7	K	167	LEU	N-CA	-6.41	1.38	1.46
7	K	242	GLU	CA-C	-6.41	1.44	1.52
1	H	518	LEU	CA-C	-6.41	1.44	1.52
7	Q	242	GLU	CA-C	-6.41	1.44	1.52
6	T	23	VAL	CA-C	-6.41	1.45	1.52
3	I	439	VAL	CA-C	-6.41	1.45	1.52
4	J	547	VAL	N-CA	-6.41	1.38	1.46
6	F	19	ARG	CA-C	-6.40	1.45	1.52
6	P	19	ARG	CA-C	-6.40	1.45	1.52
3	I	823	SER	CA-C	-6.40	1.44	1.52
7	Q	209	LEU	CA-C	-6.40	1.44	1.52
1	A	807	ASN	CA-C	-6.40	1.44	1.52
3	B	472	GLY	CA-C	-6.40	1.45	1.52
1	H	807	ASN	CA-C	-6.40	1.44	1.52
3	I	122	LYS	CA-C	-6.40	1.44	1.52
4	J	778	SER	N-CA	-6.40	1.38	1.46
3	B	394	TYR	CA-C	-6.40	1.44	1.52
7	G	144	MET	N-CA	-6.40	1.38	1.46
7	Q	828	LEU	CA-C	-6.40	1.45	1.52
4	C	378	TYR	N-CA	-6.39	1.38	1.45
5	D	14	LYS	N-CA	-6.39	1.38	1.46
7	K	828	LEU	CA-C	-6.39	1.45	1.52
3	I	297	ALA	CA-C	-6.39	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	378	TYR	N-CA	-6.39	1.38	1.45
1	A	535	TRP	CA-C	-6.39	1.45	1.52
8	L	46	LYS	N-CA	-6.39	1.38	1.46
4	J	668	GLN	CA-C	-6.39	1.44	1.52
8	S	145	ARG	CA-C	-6.39	1.44	1.52
8	Z	120	GLY	CA-C	-6.39	1.45	1.52
7	K	612	ILE	CA-C	-6.38	1.44	1.52
4	J	568	PRO	CA-C	-6.38	1.41	1.52
4	C	568	PRO	CA-C	-6.38	1.41	1.52
3	B	122	LYS	CA-C	-6.38	1.44	1.52
4	C	761	TYR	CA-C	-6.38	1.44	1.53
8	L	99	ASP	N-CA	-6.38	1.38	1.46
8	S	99	ASP	N-CA	-6.38	1.38	1.46
7	K	209	LEU	CA-C	-6.38	1.44	1.52
6	M	23	VAL	CA-C	-6.38	1.45	1.52
3	I	394	TYR	CA-C	-6.38	1.44	1.52
7	Q	844	SER	CA-C	-6.38	1.45	1.52
4	C	446	GLY	CA-C	-6.37	1.46	1.52
7	G	348	LEU	N-CA	-6.37	1.38	1.46
3	B	763	GLN	N-CA	-6.37	1.38	1.46
6	R	32	THR	CA-C	-6.37	1.44	1.52
4	C	668	GLN	CA-C	-6.37	1.44	1.52
8	U	142	VAL	N-CA	-6.37	1.39	1.46
5	D	68	LEU	CA-C	-6.37	1.44	1.52
6	R	19	ARG	CA-C	-6.37	1.45	1.52
1	A	487	LYS	CA-C	-6.37	1.45	1.52
7	Q	167	LEU	N-CA	-6.37	1.38	1.46
4	J	391	ALA	CA-C	-6.36	1.44	1.53
6	P	103	ALA	CA-C	-6.36	1.44	1.52
8	U	17	LEU	CA-C	-6.36	1.45	1.52
1	H	473	THR	N-CA	-6.36	1.38	1.46
3	B	152	MET	N-CA	-6.36	1.40	1.46
4	C	272	GLU	CA-C	-6.36	1.44	1.52
3	I	763	GLN	N-CA	-6.36	1.38	1.46
1	A	36	TRP	CA-C	-6.36	1.44	1.52
7	G	612	ILE	CA-C	-6.36	1.44	1.52
8	Z	46	LYS	N-CA	-6.36	1.38	1.46
1	H	574	LYS	N-CA	-6.36	1.38	1.46
5	D	115	GLU	CA-C	-6.36	1.44	1.52
7	K	65	GLU	N-CA	-6.36	1.38	1.46
4	J	9	ARG	N-CA	-6.36	1.38	1.46
7	G	487	VAL	CA-C	-6.35	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	648	ILE	CA-C	-6.35	1.44	1.52
8	Z	17	LEU	CA-C	-6.35	1.45	1.52
1	H	535	TRP	CA-C	-6.35	1.45	1.52
5	N	151	GLN	CA-C	-6.35	1.44	1.52
7	Q	612	ILE	CA-C	-6.35	1.44	1.52
8	S	51	LYS	N-CA	-6.35	1.38	1.46
3	B	297	ALA	CA-C	-6.35	1.44	1.52
3	B	174	ILE	CA-C	-6.35	1.44	1.52
4	J	76	ALA	CA-C	-6.35	1.44	1.52
5	N	14	LYS	N-CA	-6.35	1.38	1.46
1	A	644	ASP	CA-C	-6.35	1.44	1.52
1	A	574	LYS	N-CA	-6.34	1.38	1.46
8	Z	142	VAL	N-CA	-6.34	1.39	1.46
3	I	174	ILE	CA-C	-6.34	1.44	1.52
3	I	438	PHE	CA-C	-6.34	1.44	1.52
3	B	439	VAL	CA-C	-6.34	1.45	1.52
7	G	844	SER	CA-C	-6.34	1.45	1.52
3	I	411	ASP	CA-C	-6.34	1.47	1.53
4	J	519	GLU	CA-C	-6.34	1.44	1.52
8	U	120	GLY	CA-C	-6.34	1.45	1.52
7	Q	828	LEU	N-CA	-6.34	1.38	1.46
4	C	255	ILE	CA-C	-6.34	1.44	1.52
4	C	588	LEU	CA-C	-6.34	1.44	1.52
6	F	116	LEU	N-CA	-6.34	1.38	1.46
1	A	329	HIS	CA-C	-6.34	1.45	1.52
4	C	306	MET	CA-C	-6.34	1.44	1.52
6	R	55	THR	CA-C	-6.34	1.45	1.52
7	G	610	GLN	N-CA	-6.33	1.38	1.46
4	J	306	MET	CA-C	-6.33	1.44	1.52
1	A	134	HIS	CA-C	-6.33	1.44	1.52
3	I	941	HIS	N-CA	-6.33	1.38	1.46
5	N	115	GLU	CA-C	-6.33	1.44	1.52
3	B	778	LEU	N-CA	-6.33	1.38	1.46
6	F	103	ALA	CA-C	-6.33	1.44	1.52
7	G	828	LEU	CA-C	-6.33	1.45	1.52
7	K	828	LEU	N-CA	-6.33	1.38	1.46
1	H	346	PHE	CA-C	-6.33	1.44	1.52
5	N	239	VAL	CA-C	-6.33	1.45	1.52
7	K	83	THR	CA-C	-6.33	1.44	1.52
1	A	654	GLU	CA-C	-6.33	1.44	1.52
4	J	272	GLU	CA-C	-6.33	1.44	1.52
4	J	446	GLY	CA-C	-6.32	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	438	PHE	CA-C	-6.32	1.44	1.52
4	C	391	ALA	CA-C	-6.32	1.44	1.53
1	H	134	HIS	CA-C	-6.32	1.44	1.52
5	D	118	ALA	N-CA	-6.32	1.38	1.46
5	N	99	GLU	CA-C	-6.32	1.44	1.52
1	H	487	LYS	CA-C	-6.32	1.45	1.52
3	B	207	ASN	CA-C	-6.32	1.44	1.52
4	J	588	LEU	CA-C	-6.32	1.44	1.52
4	C	377	ILE	N-CA	-6.31	1.39	1.46
5	D	99	GLU	CA-C	-6.31	1.44	1.52
7	Q	65	GLU	N-CA	-6.31	1.38	1.46
7	Q	83	THR	CA-C	-6.31	1.44	1.52
7	G	76	LEU	N-CA	-6.31	1.38	1.46
6	M	170	LEU	CA-C	-6.31	1.44	1.52
4	J	711	MET	CA-C	-6.31	1.44	1.52
4	J	255	ILE	CA-C	-6.31	1.44	1.52
6	P	61	ILE	N-CA	-6.31	1.38	1.46
1	A	274	ARG	CA-C	-6.31	1.45	1.52
3	B	453	ILE	CA-C	-6.31	1.44	1.52
7	G	73	MET	CA-C	-6.31	1.44	1.52
1	H	343	GLN	CA-C	-6.31	1.44	1.52
7	K	844	SER	CA-C	-6.30	1.45	1.52
8	Z	14	LYS	CA-C	-6.30	1.44	1.52
3	I	453	ILE	CA-C	-6.30	1.44	1.52
1	A	473	THR	N-CA	-6.30	1.38	1.46
7	G	118	ASP	N-CA	-6.30	1.38	1.46
3	I	778	LEU	N-CA	-6.30	1.38	1.46
5	N	68	LEU	CA-C	-6.30	1.45	1.52
1	A	451	PRO	CA-C	-6.29	1.45	1.52
1	H	654	GLU	CA-C	-6.29	1.44	1.52
6	T	78	TRP	CA-C	-6.29	1.43	1.52
1	A	346	PHE	CA-C	-6.29	1.44	1.52
4	C	711	MET	CA-C	-6.29	1.44	1.52
7	G	401	LEU	CA-C	-6.29	1.44	1.52
8	L	51	LYS	N-CA	-6.29	1.38	1.46
7	G	521	ASP	CA-C	-6.29	1.45	1.53
3	B	941	HIS	N-CA	-6.29	1.38	1.46
6	R	126	ASN	CA-C	-6.29	1.44	1.53
7	K	189	ASN	CA-C	-6.29	1.44	1.52
5	D	239	VAL	CA-C	-6.29	1.45	1.52
1	H	451	PRO	CA-C	-6.28	1.45	1.52
1	H	644	ASP	CA-C	-6.28	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	397	LEU	CA-C	-6.28	1.44	1.52
4	J	377	ILE	N-CA	-6.28	1.39	1.46
7	G	80	ASN	N-CA	-6.28	1.38	1.46
6	R	39	LEU	CA-C	-6.28	1.43	1.52
1	H	329	HIS	CA-C	-6.28	1.45	1.52
6	M	78	TRP	CA-C	-6.28	1.43	1.52
4	J	586	SER	CA-C	-6.28	1.44	1.52
3	B	474	LEU	CA-C	-6.27	1.44	1.52
7	K	174	VAL	N-CA	-6.27	1.39	1.46
1	A	360	GLY	CA-C	-6.27	1.43	1.51
3	B	406	SER	N-CA	-6.27	1.38	1.46
7	G	71	PHE	CA-C	-6.27	1.44	1.52
7	Q	189	ASN	CA-C	-6.27	1.44	1.52
4	J	498	ALA	CA-C	-6.27	1.44	1.52
6	P	116	LEU	N-CA	-6.27	1.38	1.46
1	H	274	ARG	CA-C	-6.27	1.45	1.52
1	H	360	GLY	CA-C	-6.27	1.43	1.51
3	B	411	ASP	CA-C	-6.26	1.47	1.53
7	G	82	PRO	CA-C	-6.26	1.43	1.52
3	I	207	ASN	CA-C	-6.26	1.44	1.52
6	F	61	ILE	N-CA	-6.26	1.38	1.46
6	R	86	GLU	N-CA	-6.26	1.38	1.46
3	B	307	GLU	CA-C	-6.26	1.45	1.52
7	G	456	LEU	CA-C	-6.26	1.44	1.52
3	B	414	ALA	CA-C	-6.25	1.44	1.52
3	B	834	LEU	CA-C	-6.25	1.44	1.52
8	U	40	GLU	CA-C	-6.25	1.44	1.52
4	C	586	SER	CA-C	-6.25	1.44	1.52
3	I	397	LEU	CA-C	-6.25	1.44	1.52
3	I	834	LEU	CA-C	-6.25	1.44	1.52
8	U	14	LYS	CA-C	-6.25	1.44	1.52
6	T	170	LEU	CA-C	-6.25	1.44	1.52
4	C	498	ALA	CA-C	-6.25	1.44	1.52
7	G	289	VAL	CA-C	-6.25	1.45	1.52
7	G	398	MET	CA-C	-6.25	1.44	1.52
7	G	417	ILE	CA-C	-6.25	1.44	1.52
7	K	252	PHE	N-CA	-6.25	1.38	1.46
7	K	854	MET	CA-C	-6.25	1.44	1.52
7	Q	174	VAL	N-CA	-6.24	1.39	1.46
4	J	761	TYR	CA-C	-6.24	1.45	1.53
8	Z	40	GLU	CA-C	-6.24	1.44	1.52
3	I	307	GLU	CA-C	-6.24	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	P	110	MET	CA-C	-6.24	1.44	1.52
1	A	343	GLN	CA-C	-6.23	1.44	1.52
1	A	37	ASP	CA-C	-6.23	1.45	1.53
1	A	464	LEU	CA-C	-6.22	1.45	1.53
3	I	135	THR	CA-C	-6.22	1.44	1.52
3	I	474	LEU	CA-C	-6.22	1.45	1.52
7	Q	116	LYS	CA-C	-6.22	1.44	1.52
4	C	352	GLU	N-CA	-6.22	1.38	1.46
7	G	509	ILE	N-CA	-6.22	1.38	1.46
7	Q	199	LEU	CA-C	-6.22	1.45	1.52
4	J	559	ARG	N-CA	-6.22	1.37	1.45
8	Z	31	TYR	CA-C	-6.22	1.45	1.52
7	Q	252	PHE	N-CA	-6.22	1.38	1.46
7	Q	292	LEU	CA-C	-6.22	1.44	1.52
7	Q	778	GLU	CA-C	-6.22	1.44	1.52
8	S	97	LEU	N-CA	-6.22	1.39	1.46
7	G	828	LEU	N-CA	-6.22	1.38	1.46
7	K	116	LYS	CA-C	-6.22	1.44	1.52
8	L	142	VAL	N-CA	-6.22	1.39	1.46
3	I	896	GLU	CA-C	-6.22	1.45	1.52
8	Z	89	MET	CA-C	-6.21	1.44	1.52
8	L	93	VAL	CA-C	-6.21	1.44	1.52
7	K	778	GLU	CA-C	-6.21	1.44	1.52
7	G	235	VAL	CA-C	-6.21	1.45	1.52
7	K	199	LEU	CA-C	-6.21	1.45	1.52
1	A	601	LEU	N-CA	-6.21	1.38	1.46
7	G	142	ARG	CA-C	-6.21	1.45	1.52
3	I	406	SER	N-CA	-6.21	1.38	1.46
7	G	294	LEU	CA-C	-6.21	1.45	1.52
7	Q	152	VAL	N-CA	-6.21	1.42	1.46
7	G	854	MET	CA-C	-6.21	1.44	1.52
8	U	26	LEU	CA-C	-6.21	1.44	1.52
8	S	93	VAL	CA-C	-6.21	1.44	1.52
7	K	292	LEU	CA-C	-6.20	1.44	1.52
4	C	775	GLU	CA-C	-6.20	1.44	1.52
6	M	48	THR	CA-C	-6.20	1.45	1.52
5	N	117	VAL	N-CA	-6.20	1.38	1.46
7	G	470	SER	CA-C	-6.20	1.44	1.52
5	D	117	VAL	N-CA	-6.19	1.38	1.46
8	L	90	LEU	CA-C	-6.19	1.44	1.52
3	B	135	THR	CA-C	-6.19	1.44	1.52
3	B	264	ILE	CA-C	-6.19	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	K	303	LEU	CA-C	-6.19	1.44	1.52
4	J	275	TRP	CA-C	-6.19	1.45	1.53
7	G	778	GLU	CA-C	-6.19	1.44	1.52
1	H	464	LEU	CA-C	-6.19	1.45	1.53
7	G	432	LYS	CA-C	-6.19	1.44	1.52
4	J	775	GLU	CA-C	-6.19	1.44	1.52
8	U	101	LEU	CA-C	-6.19	1.44	1.52
3	B	259	ARG	CA-C	-6.18	1.44	1.52
3	I	259	ARG	CA-C	-6.18	1.44	1.52
7	G	307	ALA	CA-C	-6.18	1.44	1.52
7	K	152	VAL	N-CA	-6.18	1.42	1.46
4	C	274	VAL	CA-C	-6.18	1.45	1.52
3	I	473	ALA	CA-C	-6.18	1.45	1.52
3	I	818	ILE	CA-C	-6.18	1.45	1.52
3	B	858	MET	N-CA	-6.18	1.38	1.46
4	C	264	GLU	N-CA	-6.18	1.38	1.46
3	B	54	THR	CA-C	-6.18	1.44	1.52
4	J	352	GLU	N-CA	-6.18	1.38	1.46
7	G	670	ASN	C-N	6.17	1.41	1.33
1	H	601	LEU	N-CA	-6.17	1.38	1.46
4	J	274	VAL	CA-C	-6.17	1.45	1.52
7	Q	206	ASN	N-CA	-6.17	1.38	1.46
1	H	37	ASP	CA-C	-6.17	1.45	1.53
3	I	78	ILE	N-CA	-6.17	1.39	1.46
7	Q	610	GLN	N-CA	-6.17	1.38	1.46
6	F	110	MET	CA-C	-6.17	1.44	1.52
3	I	264	ILE	CA-C	-6.17	1.45	1.52
8	Z	101	LEU	CA-C	-6.17	1.44	1.52
7	Q	854	MET	CA-C	-6.16	1.45	1.52
3	B	473	ALA	CA-C	-6.16	1.45	1.52
1	H	614	MET	CA-C	-6.16	1.44	1.52
8	U	89	MET	CA-C	-6.16	1.44	1.52
7	K	610	GLN	N-CA	-6.16	1.39	1.46
7	K	779	VAL	N-CA	-6.16	1.39	1.46
3	I	298	GLN	CA-C	-6.16	1.45	1.52
8	S	142	VAL	N-CA	-6.16	1.39	1.46
4	C	559	ARG	N-CA	-6.15	1.37	1.45
6	R	43	ILE	C-N	6.15	1.42	1.33
6	R	108	GLN	N-CA	-6.15	1.39	1.46
4	J	715	LEU	CA-C	-6.15	1.44	1.52
1	A	614	MET	CA-C	-6.15	1.44	1.52
7	Q	140	VAL	N-CA	-6.15	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	S	90	LEU	CA-C	-6.15	1.44	1.52
3	B	78	ILE	N-CA	-6.15	1.39	1.46
7	G	779	VAL	N-CA	-6.15	1.39	1.46
4	J	264	GLU	N-CA	-6.14	1.38	1.46
6	T	48	THR	CA-C	-6.14	1.45	1.52
3	B	804	VAL	CA-C	-6.14	1.45	1.52
5	D	54	VAL	N-CA	-6.14	1.39	1.46
6	R	99	ARG	CA-C	-6.14	1.44	1.52
1	H	542	ILE	CA-C	-6.14	1.45	1.52
3	I	155	ILE	CA-C	-6.14	1.44	1.52
8	U	31	TYR	CA-C	-6.14	1.45	1.52
7	Q	303	LEU	CA-C	-6.14	1.44	1.52
3	I	54	THR	CA-C	-6.13	1.44	1.52
3	B	818	ILE	CA-C	-6.13	1.45	1.52
7	G	141	GLU	CA-C	-6.13	1.44	1.52
3	I	212	LEU	CA-C	-6.13	1.45	1.52
4	C	715	LEU	CA-C	-6.13	1.44	1.52
7	K	206	ASN	N-CA	-6.13	1.39	1.46
3	I	858	MET	N-CA	-6.13	1.38	1.46
3	I	139	LEU	N-CA	-6.12	1.38	1.46
7	Q	779	VAL	N-CA	-6.12	1.39	1.46
4	C	275	TRP	CA-C	-6.12	1.45	1.53
6	F	26	ASP	CA-C	-6.12	1.44	1.52
7	G	254	PHE	N-CA	-6.12	1.39	1.46
8	L	97	LEU	N-CA	-6.12	1.39	1.46
6	P	26	ASP	CA-C	-6.12	1.44	1.52
8	L	77	PHE	N-CA	-6.12	1.38	1.46
1	A	542	ILE	CA-C	-6.12	1.45	1.52
3	B	896	GLU	CA-C	-6.12	1.45	1.52
4	J	81	ILE	N-CA	-6.12	1.39	1.46
7	G	484	HIS	N-CA	-6.12	1.38	1.46
8	Z	26	LEU	CA-C	-6.12	1.45	1.52
1	H	10	ALA	CA-C	-6.12	1.44	1.52
1	A	244	THR	CA-C	-6.12	1.45	1.52
7	G	473	ILE	CA-C	-6.12	1.45	1.52
8	Z	66	THR	N-CA	-6.12	1.37	1.46
3	I	458	LEU	CA-C	-6.12	1.44	1.52
7	G	252	PHE	N-CA	-6.11	1.39	1.46
7	G	67	THR	CA-C	-6.11	1.44	1.52
3	B	298	GLN	CA-C	-6.11	1.45	1.52
3	B	924	VAL	N-CA	-6.11	1.39	1.46
7	Q	167	LEU	CA-C	-6.11	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	212	LEU	CA-C	-6.11	1.45	1.52
3	I	804	VAL	CA-C	-6.11	1.45	1.52
4	J	719	ALA	CA-C	-6.11	1.44	1.52
3	B	117	CYS	CA-C	-6.11	1.44	1.52
3	B	377	LYS	CA-C	-6.11	1.44	1.52
6	F	102	GLU	N-CA	-6.11	1.38	1.46
7	Q	844	SER	N-CA	-6.11	1.39	1.46
8	S	50	ASN	N-CA	-6.11	1.39	1.46
3	I	117	CYS	CA-C	-6.10	1.44	1.52
4	J	131	LYS	CA-C	-6.10	1.44	1.52
3	B	155	ILE	CA-C	-6.10	1.44	1.52
4	C	5	LEU	CA-C	-6.10	1.45	1.52
8	U	66	THR	N-CA	-6.10	1.37	1.46
3	B	55	GLU	CA-C	-6.10	1.45	1.52
3	I	784	VAL	N-CA	-6.10	1.38	1.46
4	C	417	ASN	CA-C	-6.10	1.44	1.53
7	K	844	SER	N-CA	-6.09	1.39	1.46
4	C	590	SER	CA-C	-6.09	1.44	1.52
7	Q	259	LEU	N-CA	-6.09	1.39	1.46
7	G	529	THR	CA-C	-6.09	1.45	1.52
4	J	454	ASN	CA-C	-6.09	1.44	1.52
1	H	283	GLY	CA-C	-6.08	1.43	1.51
7	G	486	GLU	N-CA	-6.08	1.39	1.46
3	I	55	GLU	CA-C	-6.08	1.45	1.52
1	A	10	ALA	CA-C	-6.08	1.44	1.52
6	R	26	ASP	CA-C	-6.08	1.45	1.52
7	K	191	MET	N-CA	-6.08	1.39	1.46
3	B	139	LEU	N-CA	-6.08	1.38	1.46
7	K	259	LEU	N-CA	-6.08	1.39	1.46
8	L	50	ASN	N-CA	-6.08	1.39	1.46
4	C	719	ALA	CA-C	-6.08	1.44	1.52
4	J	417	ASN	CA-C	-6.08	1.44	1.53
3	I	398	LEU	N-CA	-6.08	1.39	1.46
7	G	169	CYS	N-CA	-6.07	1.39	1.46
1	H	244	THR	CA-C	-6.07	1.45	1.52
1	H	431	ARG	CA-C	-6.07	1.45	1.53
4	J	499	GLN	CA-C	-6.07	1.44	1.52
3	B	398	LEU	N-CA	-6.07	1.39	1.46
4	C	454	ASN	CA-C	-6.07	1.44	1.52
3	I	402	LEU	N-CA	-6.07	1.39	1.46
3	B	784	VAL	N-CA	-6.07	1.38	1.46
4	J	185	GLU	CA-C	-6.07	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Q	109	LEU	N-CA	-6.07	1.38	1.46
7	G	108	SER	CA-C	-6.06	1.44	1.52
5	N	54	VAL	N-CA	-6.06	1.39	1.46
7	G	136	MET	N-CA	-6.06	1.38	1.46
1	A	599	PHE	CA-C	-6.06	1.45	1.52
7	G	46	HIS	CA-C	-6.06	1.45	1.52
7	K	140	VAL	N-CA	-6.06	1.38	1.46
7	Q	191	MET	N-CA	-6.06	1.39	1.46
7	K	167	LEU	CA-C	-6.05	1.44	1.52
6	T	25	LEU	CA-C	-6.05	1.45	1.53
8	S	77	PHE	N-CA	-6.05	1.38	1.46
8	Z	141	GLN	N-CA	-6.05	1.39	1.46
1	H	453	CYS	N-CA	-6.05	1.39	1.46
4	J	358	ILE	N-CA	-6.05	1.39	1.46
6	P	102	GLU	N-CA	-6.05	1.39	1.46
4	J	590	SER	CA-C	-6.05	1.45	1.52
4	C	312	GLY	CA-C	-6.05	1.43	1.51
1	A	283	GLY	CA-C	-6.05	1.43	1.51
4	C	224	THR	N-CA	-6.05	1.38	1.46
3	I	100	VAL	CA-C	-6.05	1.46	1.52
6	T	37	LEU	N-CA	-6.05	1.39	1.46
3	B	402	LEU	N-CA	-6.04	1.39	1.46
4	C	185	GLU	CA-C	-6.04	1.45	1.52
6	M	37	LEU	N-CA	-6.04	1.39	1.46
1	H	599	PHE	CA-C	-6.04	1.45	1.52
3	I	137	ARG	CA-C	-6.04	1.45	1.52
8	L	84	TYR	N-CA	-6.04	1.38	1.46
1	A	628	TYR	N-CA	-6.04	1.38	1.46
3	B	100	VAL	CA-C	-6.04	1.46	1.52
3	I	924	VAL	N-CA	-6.04	1.39	1.46
3	B	137	ARG	CA-C	-6.03	1.45	1.52
5	D	55	ARG	N-CA	-6.03	1.38	1.46
4	C	131	LYS	CA-C	-6.03	1.44	1.52
5	N	83	LEU	CA-C	-6.03	1.45	1.52
1	A	453	CYS	N-CA	-6.03	1.39	1.46
7	G	211	VAL	N-CA	-6.03	1.39	1.46
1	A	431	ARG	CA-C	-6.03	1.46	1.53
8	S	84	TYR	N-CA	-6.03	1.38	1.46
4	J	5	LEU	CA-C	-6.03	1.45	1.52
7	Q	670	ASN	C-N	6.03	1.41	1.33
1	A	246	ARG	CA-C	-6.03	1.45	1.52
7	K	188	ASP	CA-C	-6.03	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	464	LEU	N-CA	-6.03	1.40	1.46
3	I	764	THR	CA-C	-6.03	1.44	1.52
7	G	143	TYR	N-CA	-6.02	1.39	1.46
7	G	844	SER	N-CA	-6.02	1.39	1.46
1	H	628	TYR	N-CA	-6.02	1.38	1.46
3	I	743	ALA	CA-C	-6.02	1.45	1.52
6	P	85	THR	CA-C	-6.02	1.44	1.53
7	G	151	LYS	CA-C	-6.02	1.44	1.52
3	I	357	GLN	CA-C	-6.02	1.45	1.52
6	F	85	THR	CA-C	-6.02	1.44	1.53
7	K	109	LEU	N-CA	-6.02	1.39	1.46
4	J	105	ILE	CA-C	-6.02	1.45	1.52
7	G	138	GLN	CA-C	-6.02	1.45	1.52
8	S	38	VAL	CA-C	-6.02	1.45	1.52
7	G	864	LEU	N-CA	-6.02	1.40	1.46
4	J	224	THR	N-CA	-6.02	1.38	1.46
4	C	81	ILE	N-CA	-6.01	1.39	1.46
4	C	472	ASP	N-CA	-6.01	1.38	1.46
7	G	857	THR	CA-C	-6.01	1.45	1.52
8	L	29	LYS	CA-C	-6.01	1.45	1.52
7	Q	188	ASP	CA-C	-6.01	1.45	1.53
7	G	75	LYS	N-CA	-6.01	1.38	1.46
6	M	171	GLU	N-CA	-6.01	1.39	1.46
4	C	358	ILE	N-CA	-6.01	1.39	1.46
1	A	722	ILE	CA-C	-6.00	1.45	1.52
1	A	589	VAL	CA-C	-6.00	1.45	1.52
3	B	826	ALA	CA-C	-6.00	1.44	1.52
6	R	46	ILE	N-CA	-6.00	1.41	1.47
8	L	38	VAL	CA-C	-6.00	1.45	1.52
3	I	826	ALA	CA-C	-6.00	1.44	1.52
4	J	134	CYS	CA-C	-6.00	1.45	1.52
1	A	464	LEU	N-CA	-6.00	1.41	1.46
4	J	562	TYR	CA-C	-6.00	1.45	1.52
3	B	405	CYS	CA-C	-6.00	1.45	1.52
3	I	377	LYS	CA-C	-6.00	1.45	1.52
4	C	499	GLN	CA-C	-6.00	1.45	1.52
8	Z	125	VAL	CA-C	-6.00	1.45	1.52
1	A	544	THR	CA-C	-5.99	1.45	1.52
4	C	134	CYS	CA-C	-5.99	1.45	1.52
3	I	459	GLU	N-CA	-5.99	1.39	1.46
5	N	55	ARG	N-CA	-5.99	1.38	1.46
7	Q	289	VAL	N-CA	-5.99	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	123	ASP	CA-C	-5.99	1.45	1.52
4	J	472	ASP	N-CA	-5.99	1.39	1.46
7	Q	52	LEU	CA-C	-5.99	1.45	1.52
3	B	764	THR	CA-C	-5.99	1.44	1.52
4	C	562	TYR	CA-C	-5.99	1.45	1.52
1	H	47	PHE	CA-C	-5.99	1.45	1.52
4	J	312	GLY	CA-C	-5.99	1.43	1.51
3	I	839	ILE	CA-C	-5.99	1.44	1.52
8	U	141	GLN	N-CA	-5.99	1.39	1.46
3	B	458	LEU	CA-C	-5.99	1.45	1.52
7	G	250	PRO	CA-C	-5.99	1.43	1.52
7	K	289	VAL	N-CA	-5.99	1.39	1.46
3	B	743	ALA	CA-C	-5.98	1.45	1.52
1	H	544	THR	CA-C	-5.98	1.45	1.52
4	J	736	GLY	CA-C	-5.98	1.43	1.51
1	A	648	ARG	CA-C	-5.98	1.45	1.52
6	R	28	ALA	CA-C	-5.98	1.45	1.52
6	T	171	GLU	N-CA	-5.98	1.39	1.46
3	B	392	ASP	N-CA	-5.98	1.39	1.46
4	J	620	ARG	CA-C	-5.98	1.45	1.52
8	U	143	VAL	CA-C	-5.98	1.45	1.52
1	H	648	ARG	CA-C	-5.98	1.45	1.52
8	U	125	VAL	CA-C	-5.98	1.45	1.52
7	K	179	ASN	N-CA	-5.97	1.39	1.46
4	C	620	ARG	CA-C	-5.97	1.45	1.52
5	D	83	LEU	CA-C	-5.97	1.45	1.52
7	G	79	SER	CA-C	-5.97	1.44	1.53
7	Q	174	VAL	CA-C	-5.97	1.45	1.52
7	K	732	VAL	N-CA	-5.97	1.39	1.46
7	K	857	THR	CA-C	-5.97	1.45	1.52
3	B	863	GLU	CA-C	-5.97	1.45	1.52
7	Q	179	ASN	N-CA	-5.97	1.39	1.46
8	U	47	ASN	CA-C	-5.96	1.45	1.52
3	B	305	ILE	N-CA	-5.96	1.39	1.46
7	G	231	MET	CA-C	-5.96	1.45	1.52
7	K	670	ASN	C-N	5.96	1.41	1.33
7	K	92	ILE	CA-C	-5.96	1.45	1.52
3	I	845	ILE	CA-C	-5.96	1.45	1.52
3	I	863	GLU	CA-C	-5.96	1.45	1.52
7	Q	857	THR	CA-C	-5.96	1.45	1.52
3	B	79	ARG	CA-C	-5.96	1.45	1.52
3	B	121	ARG	CA-C	-5.96	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	246	ARG	CA-C	-5.96	1.45	1.52
3	I	467	VAL	CA-C	-5.96	1.45	1.52
3	B	191	LEU	CA-C	-5.96	1.45	1.52
4	C	575	LEU	N-CA	-5.96	1.38	1.45
8	Z	143	VAL	CA-C	-5.96	1.45	1.52
1	H	722	ILE	CA-C	-5.96	1.45	1.52
4	J	809	GLU	CA-C	-5.96	1.45	1.52
6	F	60	ASN	N-CA	-5.95	1.37	1.46
1	A	680	VAL	N-CA	-5.95	1.39	1.46
3	B	839	ILE	CA-C	-5.95	1.45	1.52
4	J	551	ILE	N-CA	-5.95	1.39	1.46
4	J	618	ARG	CA-C	-5.95	1.45	1.52
3	B	234	PHE	CA-C	-5.95	1.45	1.52
7	K	52	LEU	CA-C	-5.95	1.45	1.52
8	S	14	LYS	CA-C	-5.95	1.45	1.52
4	J	369	VAL	N-CA	-5.94	1.39	1.46
7	K	83	THR	N-CA	-5.94	1.38	1.46
4	C	736	GLY	CA-C	-5.94	1.43	1.51
3	B	459	GLU	N-CA	-5.94	1.39	1.46
7	Q	92	ILE	CA-C	-5.94	1.45	1.52
4	C	809	GLU	CA-C	-5.94	1.45	1.52
6	P	60	ASN	N-CA	-5.94	1.37	1.46
7	Q	139	ALA	N-CA	-5.94	1.39	1.46
3	B	856	ARG	CA-C	-5.93	1.45	1.52
7	G	292	LEU	N-CA	-5.93	1.39	1.46
7	G	707	TYR	N-CA	-5.93	1.38	1.45
3	B	845	ILE	CA-C	-5.93	1.45	1.52
4	C	105	ILE	CA-C	-5.93	1.45	1.52
1	H	146	SER	CA-C	-5.93	1.44	1.52
4	J	109	PRO	CA-C	-5.93	1.44	1.52
7	G	539	GLN	CA-C	-5.93	1.44	1.52
8	Z	37	SER	CA-C	-5.93	1.44	1.52
3	I	392	ASP	N-CA	-5.93	1.39	1.46
1	H	254	CYS	CA-C	-5.93	1.45	1.52
7	G	164	LEU	CA-C	-5.93	1.45	1.52
3	B	204	CYS	N-CA	-5.92	1.39	1.46
3	I	856	ARG	CA-C	-5.92	1.45	1.52
8	S	29	LYS	CA-C	-5.92	1.45	1.52
4	C	780	VAL	CA-C	-5.92	1.45	1.52
7	G	215	ILE	N-CA	-5.92	1.39	1.46
1	H	680	VAL	N-CA	-5.92	1.39	1.46
3	B	357	GLN	CA-C	-5.92	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	618	ARG	CA-C	-5.92	1.45	1.52
3	I	762	ASN	N-CA	-5.92	1.39	1.46
4	J	780	VAL	CA-C	-5.92	1.45	1.52
3	B	123	ASP	CA-C	-5.92	1.45	1.52
3	B	467	VAL	CA-C	-5.92	1.45	1.52
8	U	37	SER	CA-C	-5.92	1.44	1.52
7	Q	732	VAL	N-CA	-5.92	1.39	1.46
1	A	146	SER	CA-C	-5.92	1.44	1.52
4	C	556	HIS	N-CA	-5.92	1.38	1.46
3	I	79	ARG	CA-C	-5.92	1.45	1.52
1	A	47	PHE	CA-C	-5.92	1.45	1.52
8	Z	143	VAL	N-CA	-5.91	1.39	1.46
3	I	204	CYS	N-CA	-5.91	1.39	1.46
4	J	236	SER	CA-C	-5.91	1.45	1.52
1	A	36	TRP	N-CA	-5.91	1.38	1.46
6	R	105	GLU	N-CA	-5.91	1.39	1.46
8	L	14	LYS	CA-C	-5.91	1.45	1.52
7	K	174	VAL	CA-C	-5.91	1.45	1.52
1	H	231	ILE	CA-C	-5.91	1.45	1.52
4	J	316	TRP	N-CA	-5.91	1.38	1.45
6	P	67	ASP	CA-C	-5.91	1.45	1.52
6	F	67	ASP	CA-C	-5.90	1.45	1.52
1	H	267	ASN	N-CA	-5.90	1.38	1.45
3	I	121	ARG	CA-C	-5.90	1.45	1.52
6	F	92	VAL	CA-C	-5.90	1.45	1.52
7	G	622	GLU	CA-C	-5.90	1.44	1.52
8	U	16	ILE	CA-C	-5.90	1.45	1.52
7	G	732	VAL	N-CA	-5.90	1.39	1.46
7	K	707	TYR	N-CA	-5.90	1.38	1.45
8	Z	47	ASN	CA-C	-5.90	1.45	1.52
3	I	305	ILE	N-CA	-5.90	1.39	1.46
6	R	145	LEU	CA-C	-5.90	1.44	1.52
7	K	622	GLU	CA-C	-5.90	1.44	1.52
7	K	640	THR	CA-C	-5.90	1.45	1.52
7	Q	622	GLU	CA-C	-5.90	1.44	1.52
3	B	834	LEU	N-CA	-5.89	1.38	1.45
4	C	109	PRO	CA-C	-5.89	1.44	1.52
7	G	442	PHE	N-CA	-5.89	1.39	1.46
8	U	143	VAL	N-CA	-5.89	1.39	1.46
1	A	254	CYS	CA-C	-5.89	1.45	1.52
3	B	388	HIS	CA-C	-5.89	1.45	1.52
7	G	162	SER	N-CA	-5.89	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	Z	16	ILE	CA-C	-5.89	1.45	1.52
7	G	751	TYR	CA-C	-5.89	1.45	1.52
4	J	556	HIS	N-CA	-5.89	1.38	1.46
3	B	140	CYS	CA-C	-5.89	1.45	1.52
3	I	405	CYS	CA-C	-5.89	1.45	1.52
6	R	47	PRO	CA-C	-5.88	1.44	1.52
3	I	140	CYS	CA-C	-5.88	1.45	1.52
6	P	92	VAL	CA-C	-5.88	1.45	1.52
1	A	267	ASN	N-CA	-5.88	1.38	1.45
4	J	575	LEU	N-CA	-5.88	1.38	1.45
7	G	191	MET	N-CA	-5.88	1.39	1.46
1	A	630	GLN	N-CA	-5.88	1.38	1.46
7	G	136	MET	CA-C	-5.88	1.44	1.52
3	I	191	LEU	CA-C	-5.88	1.45	1.52
7	Q	864	LEU	N-CA	-5.88	1.40	1.46
3	B	315	ILE	CA-C	-5.88	1.45	1.52
3	B	395	ARG	CA-C	-5.88	1.45	1.52
4	C	369	VAL	N-CA	-5.88	1.39	1.46
8	Z	129	VAL	N-CA	-5.88	1.39	1.46
1	H	589	VAL	CA-C	-5.88	1.45	1.52
7	Q	83	THR	N-CA	-5.87	1.38	1.46
3	B	762	ASN	N-CA	-5.87	1.39	1.46
3	B	802	ALA	CA-C	-5.87	1.45	1.52
4	C	316	TRP	N-CA	-5.87	1.38	1.45
3	I	399	VAL	CA-C	-5.87	1.45	1.52
3	I	234	PHE	CA-C	-5.87	1.45	1.52
3	B	428	ASN	CA-C	-5.87	1.45	1.52
3	B	441	GLU	CA-C	-5.87	1.45	1.52
7	G	81	ASP	CA-C	-5.87	1.45	1.52
3	I	802	ALA	CA-C	-5.87	1.45	1.52
8	U	129	VAL	N-CA	-5.87	1.39	1.46
7	Q	233	ILE	CA-C	-5.87	1.45	1.52
3	B	372	VAL	C-N	-5.87	1.26	1.33
7	G	508	SER	CA-C	-5.87	1.45	1.52
4	C	587	LEU	CA-C	-5.86	1.45	1.52
5	D	159	MET	CA-C	-5.86	1.45	1.52
7	G	640	THR	CA-C	-5.86	1.45	1.52
7	Q	202	HIS	N-CA	-5.86	1.39	1.46
7	Q	707	TYR	N-CA	-5.86	1.38	1.45
1	A	231	ILE	CA-C	-5.86	1.45	1.52
8	L	117	ASN	CA-C	-5.86	1.45	1.52
1	H	36	TRP	N-CA	-5.86	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	K	139	ALA	N-CA	-5.86	1.39	1.46
5	N	118	ALA	CA-C	-5.86	1.45	1.52
7	Q	176	ARG	CA-C	-5.86	1.44	1.52
4	C	521	GLN	N-CA	-5.85	1.39	1.46
3	I	388	HIS	CA-C	-5.85	1.45	1.52
8	S	117	ASN	CA-C	-5.85	1.45	1.52
1	A	224	ALA	CA-C	-5.85	1.45	1.52
4	C	550	GLU	N-CA	-5.85	1.38	1.45
7	K	46	HIS	CA-C	-5.85	1.45	1.52
7	K	184	ALA	N-CA	-5.85	1.39	1.46
3	I	395	ARG	CA-C	-5.85	1.45	1.52
3	B	263	CYS	CA-C	-5.85	1.45	1.52
7	G	249	SER	C-O	-5.85	1.19	1.24
1	H	224	ALA	CA-C	-5.85	1.45	1.52
4	C	15	SER	N-CA	-5.85	1.40	1.46
5	D	81	GLU	N-CA	-5.85	1.39	1.46
6	R	107	MET	N-CA	-5.85	1.38	1.46
1	A	620	LEU	CA-C	-5.84	1.45	1.52
3	B	321	VAL	N-CA	-5.84	1.39	1.46
7	G	662	GLN	CA-C	-5.84	1.45	1.52
3	I	372	VAL	C-N	-5.84	1.26	1.33
3	I	834	LEU	N-CA	-5.84	1.38	1.45
5	N	159	MET	CA-C	-5.84	1.45	1.52
7	Q	640	THR	CA-C	-5.84	1.45	1.52
4	C	236	SER	CA-C	-5.84	1.45	1.52
7	K	864	LEU	N-CA	-5.84	1.40	1.46
3	B	286	LEU	N-CA	-5.84	1.39	1.46
3	B	399	VAL	CA-C	-5.84	1.45	1.52
5	D	118	ALA	CA-C	-5.84	1.45	1.52
6	R	33	VAL	CA-C	-5.84	1.45	1.52
5	N	81	GLU	N-CA	-5.84	1.39	1.46
3	B	75	MET	N-CA	-5.84	1.39	1.46
7	K	241	GLU	CA-C	-5.84	1.44	1.52
7	Q	184	ALA	N-CA	-5.84	1.39	1.46
7	G	674	LEU	CA-C	-5.84	1.45	1.52
1	H	212	ALA	CA-C	-5.84	1.45	1.52
3	I	315	ILE	CA-C	-5.84	1.45	1.52
3	I	441	GLU	CA-C	-5.84	1.45	1.52
1	H	683	LEU	CA-C	-5.83	1.45	1.52
7	Q	241	GLU	CA-C	-5.83	1.44	1.52
7	K	176	ARG	CA-C	-5.83	1.44	1.52
1	H	630	GLN	N-CA	-5.83	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Q	674	LEU	CA-C	-5.83	1.45	1.52
7	K	650	CYS	CA-C	-5.83	1.45	1.52
3	I	138	PHE	N-CA	-5.83	1.39	1.46
4	J	587	LEU	CA-C	-5.83	1.45	1.52
3	I	263	CYS	CA-C	-5.83	1.45	1.52
7	K	674	LEU	CA-C	-5.82	1.45	1.52
1	A	679	GLU	N-CA	-5.82	1.39	1.46
1	A	683	LEU	CA-C	-5.82	1.45	1.52
3	I	75	MET	N-CA	-5.82	1.39	1.46
3	I	286	LEU	N-CA	-5.82	1.39	1.46
7	Q	662	GLN	CA-C	-5.82	1.45	1.52
8	Z	119	GLU	CA-C	-5.82	1.45	1.52
7	K	233	ILE	CA-C	-5.82	1.45	1.52
6	F	38	LYS	CA-C	-5.82	1.45	1.52
1	H	679	GLU	N-CA	-5.82	1.39	1.46
3	I	321	VAL	N-CA	-5.82	1.39	1.46
3	I	851	THR	CA-C	-5.82	1.45	1.52
4	J	521	GLN	N-CA	-5.82	1.39	1.46
4	C	322	VAL	CA-C	-5.81	1.46	1.53
8	U	62	LEU	N-CA	-5.81	1.38	1.46
3	B	138	PHE	N-CA	-5.81	1.39	1.46
5	D	6	ALA	CA-C	-5.81	1.45	1.52
8	Z	62	LEU	N-CA	-5.81	1.38	1.46
8	U	119	GLU	CA-C	-5.81	1.45	1.52
1	A	682	LEU	CA-C	-5.81	1.45	1.52
5	D	82	THR	N-CA	-5.80	1.39	1.46
7	G	443	ILE	CA-C	-5.80	1.45	1.52
7	G	531	TYR	CA-C	-5.80	1.45	1.52
7	G	721	ALA	CA-C	-5.80	1.45	1.52
8	U	146	VAL	CA-C	-5.80	1.46	1.52
7	Q	46	HIS	CA-C	-5.80	1.45	1.52
4	J	603	PHE	N-CA	-5.80	1.39	1.46
3	B	61	ILE	N-CA	-5.80	1.39	1.46
3	B	851	THR	CA-C	-5.80	1.45	1.52
1	H	564	LEU	CA-C	-5.80	1.45	1.52
7	Q	155	VAL	N-CA	-5.80	1.39	1.46
7	Q	162	SER	CA-C	-5.80	1.45	1.52
7	K	64	THR	CA-C	-5.79	1.45	1.52
4	J	15	SER	N-CA	-5.79	1.40	1.46
4	J	550	GLU	N-CA	-5.79	1.39	1.45
4	C	783	LYS	CA-C	-5.79	1.45	1.52
8	Z	146	VAL	CA-C	-5.79	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Q	64	THR	CA-C	-5.79	1.45	1.52
1	A	564	LEU	CA-C	-5.79	1.45	1.52
4	C	551	ILE	N-CA	-5.79	1.39	1.46
7	Q	732	VAL	CA-C	-5.79	1.45	1.52
3	B	855	PHE	CA-C	-5.79	1.45	1.52
3	I	262	ARG	N-CA	-5.79	1.39	1.46
7	K	202	HIS	N-CA	-5.79	1.39	1.46
3	I	188	ALA	N-CA	-5.79	1.41	1.46
3	I	283	LEU	CA-C	-5.79	1.45	1.52
3	I	428	ASN	CA-C	-5.79	1.45	1.52
5	N	6	ALA	CA-C	-5.79	1.45	1.52
5	N	82	THR	N-CA	-5.79	1.39	1.46
6	P	38	LYS	CA-C	-5.79	1.45	1.52
8	U	70	LYS	N-CA	-5.78	1.38	1.46
8	U	124	ALA	CA-C	-5.78	1.45	1.52
4	C	603	PHE	N-CA	-5.78	1.39	1.46
4	C	836	MET	CA-C	-5.78	1.45	1.52
6	R	122	LEU	CA-C	-5.78	1.45	1.52
8	L	144	HIS	N-CA	-5.78	1.39	1.46
1	H	620	LEU	CA-C	-5.78	1.45	1.52
3	I	855	PHE	CA-C	-5.78	1.45	1.52
4	J	322	VAL	CA-C	-5.78	1.46	1.53
8	S	39	LYS	CA-C	-5.78	1.45	1.52
7	G	256	GLU	CA-C	-5.78	1.45	1.52
6	R	122	LEU	N-CA	-5.78	1.39	1.46
8	S	139	PRO	CA-C	-5.78	1.42	1.52
7	K	155	VAL	N-CA	-5.78	1.39	1.46
7	Q	683	PRO	C-N	5.78	1.41	1.33
6	M	25	LEU	CA-C	-5.77	1.45	1.53
7	Q	769	LYS	CA-C	-5.77	1.45	1.52
3	B	778	LEU	CA-C	-5.77	1.45	1.52
7	G	137	LEU	N-CA	-5.77	1.39	1.46
7	G	378	VAL	CA-C	-5.77	1.45	1.52
7	G	732	VAL	CA-C	-5.77	1.45	1.52
4	J	783	LYS	CA-C	-5.77	1.45	1.52
7	G	769	LYS	CA-C	-5.77	1.45	1.52
1	H	521	LEU	CA-C	-5.77	1.45	1.52
8	U	44	PHE	CA-C	-5.76	1.45	1.52
3	B	267	LEU	CA-C	-5.76	1.44	1.52
3	I	61	ILE	N-CA	-5.76	1.39	1.46
3	I	267	LEU	CA-C	-5.76	1.44	1.52
8	S	144	HIS	CA-C	-5.76	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	212	ALA	CA-C	-5.76	1.45	1.52
8	Z	70	LYS	N-CA	-5.76	1.38	1.46
7	K	769	LYS	CA-C	-5.76	1.45	1.52
4	J	182	GLU	CA-C	-5.76	1.45	1.53
4	J	510	ILE	CA-C	-5.76	1.45	1.52
8	S	83	SER	N-CA	-5.76	1.38	1.46
1	A	536	ASP	CA-C	-5.76	1.45	1.52
4	C	298	LYS	CA-C	-5.76	1.45	1.52
7	K	683	PRO	C-N	5.76	1.41	1.33
8	L	139	PRO	CA-C	-5.76	1.42	1.52
1	H	682	LEU	CA-C	-5.76	1.45	1.52
4	C	625	LEU	CA-C	-5.75	1.45	1.52
4	C	644	ARG	CA-C	-5.75	1.45	1.52
8	S	144	HIS	N-CA	-5.75	1.39	1.46
3	B	283	LEU	CA-C	-5.75	1.45	1.52
8	Z	44	PHE	CA-C	-5.75	1.45	1.52
7	K	67	THR	CA-C	-5.75	1.45	1.52
8	L	83	SER	N-CA	-5.75	1.38	1.46
3	I	374	VAL	C-O	-5.75	1.17	1.24
3	I	391	THR	CA-C	-5.75	1.44	1.52
7	Q	231	MET	CA-C	-5.75	1.45	1.52
3	B	172	LEU	CA-C	-5.75	1.45	1.52
3	B	262	ARG	N-CA	-5.75	1.39	1.46
7	G	104	ILE	CA-C	-5.75	1.45	1.52
7	K	732	VAL	CA-C	-5.75	1.45	1.52
5	N	102	ILE	CA-C	-5.75	1.45	1.52
4	C	542	ARG	CA-C	-5.75	1.45	1.52
1	H	536	ASP	CA-C	-5.75	1.45	1.52
1	H	586	ARG	C-N	5.75	1.40	1.33
3	I	414	ALA	C-O	-5.75	1.17	1.24
7	G	383	ILE	CA-C	-5.75	1.45	1.52
3	B	391	THR	CA-C	-5.74	1.44	1.52
3	I	376	LYS	CA-C	-5.74	1.45	1.52
4	J	644	ARG	CA-C	-5.74	1.45	1.52
3	B	94	LEU	N-CA	-5.74	1.39	1.46
7	G	234	ARG	C-N	-5.74	1.26	1.33
4	C	182	GLU	CA-C	-5.74	1.45	1.53
4	C	510	ILE	CA-C	-5.74	1.45	1.52
8	S	82	SER	CA-C	-5.74	1.45	1.52
3	B	376	LYS	CA-C	-5.74	1.45	1.52
7	K	662	GLN	CA-C	-5.74	1.45	1.52
1	H	496	TRP	CA-C	-5.74	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	542	ARG	CA-C	-5.74	1.45	1.52
4	J	836	MET	CA-C	-5.74	1.45	1.52
7	Q	751	TYR	CA-C	-5.74	1.45	1.52
3	B	136	LEU	CA-C	-5.74	1.45	1.52
7	Q	721	ALA	CA-C	-5.74	1.45	1.52
3	I	136	LEU	CA-C	-5.74	1.45	1.52
4	J	625	LEU	CA-C	-5.74	1.45	1.52
7	Q	67	THR	CA-C	-5.74	1.45	1.52
7	G	727	VAL	CA-C	-5.73	1.45	1.52
7	K	162	SER	CA-C	-5.73	1.45	1.52
7	K	776	TRP	N-CA	-5.73	1.39	1.46
4	J	298	LYS	CA-C	-5.73	1.45	1.52
7	Q	91	THR	CA-C	-5.73	1.45	1.52
3	B	95	VAL	CA-C	-5.73	1.45	1.52
4	C	737	LYS	CA-C	-5.73	1.45	1.52
3	I	95	VAL	CA-C	-5.73	1.45	1.52
6	P	71	GLN	CA-C	-5.73	1.45	1.53
7	K	212	SER	N-CA	-5.73	1.39	1.46
1	H	658	ILE	CA-C	-5.73	1.43	1.52
4	C	214	TRP	CA-C	-5.73	1.45	1.52
1	H	325	ALA	C-N	5.73	1.40	1.33
6	R	110	MET	N-CA	-5.72	1.39	1.46
4	J	259	SER	CA-C	-5.72	1.45	1.52
7	K	231	MET	CA-C	-5.72	1.45	1.52
3	I	778	LEU	CA-C	-5.72	1.45	1.52
5	N	132	THR	CA-C	-5.72	1.45	1.52
7	Q	776	TRP	N-CA	-5.72	1.39	1.46
4	J	536	TYR	CA-C	-5.72	1.45	1.52
7	Q	650	CYS	CA-C	-5.72	1.45	1.52
3	B	258	ALA	CA-C	-5.71	1.45	1.52
5	D	102	ILE	CA-C	-5.71	1.45	1.52
8	L	144	HIS	CA-C	-5.71	1.45	1.52
5	D	132	THR	CA-C	-5.71	1.45	1.52
6	F	71	GLN	CA-C	-5.71	1.45	1.53
8	Z	28	ALA	N-CA	-5.71	1.39	1.46
5	N	77	LEU	CA-C	-5.71	1.45	1.52
5	N	144	PHE	CA-C	-5.71	1.45	1.52
6	R	25	LEU	CA-C	-5.71	1.45	1.53
8	L	98	PHE	CA-C	-5.71	1.45	1.52
7	Q	256	GLU	CA-C	-5.71	1.45	1.52
1	A	521	LEU	CA-C	-5.71	1.45	1.52
6	F	42	VAL	CA-C	-5.71	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	258	ALA	CA-C	-5.71	1.45	1.52
3	B	374	VAL	C-O	-5.71	1.17	1.24
4	C	259	SER	CA-C	-5.71	1.45	1.52
4	J	610	LEU	N-CA	-5.71	1.40	1.46
3	B	188	ALA	N-CA	-5.70	1.41	1.46
7	K	721	ALA	CA-C	-5.70	1.45	1.52
6	M	100	ILE	N-CA	-5.70	1.39	1.46
1	H	145	PRO	CA-C	-5.70	1.44	1.52
1	H	594	PRO	C-N	-5.70	1.26	1.34
3	I	310	ASN	N-CA	-5.70	1.39	1.46
4	C	398	HIS	CA-C	-5.70	1.44	1.52
7	G	776	TRP	N-CA	-5.70	1.39	1.46
3	B	953	LEU	CA-C	-5.70	1.45	1.52
7	K	256	GLU	CA-C	-5.70	1.45	1.52
1	H	663	GLU	N-CA	-5.70	1.39	1.46
7	K	217	LYS	N-CA	-5.70	1.39	1.46
4	J	406	ARG	CA-C	-5.70	1.45	1.52
7	Q	727	VAL	CA-C	-5.70	1.45	1.52
3	B	415	ASN	N-CA	-5.69	1.39	1.46
8	Z	124	ALA	CA-C	-5.69	1.45	1.52
8	L	39	LYS	CA-C	-5.69	1.45	1.52
4	J	841	GLY	CA-C	-5.69	1.45	1.51
7	G	683	PRO	C-N	5.69	1.41	1.33
8	S	98	PHE	CA-C	-5.69	1.45	1.52
3	B	310	ASN	N-CA	-5.69	1.39	1.46
7	G	243	GLU	CA-C	-5.69	1.45	1.52
3	I	953	LEU	CA-C	-5.69	1.45	1.52
4	C	193	TYR	CA-C	-5.68	1.45	1.52
8	L	82	SER	CA-C	-5.68	1.46	1.52
8	L	92	ALA	CA-C	-5.68	1.45	1.52
1	H	506	LEU	N-CA	-5.68	1.39	1.45
4	J	249	GLU	CA-C	-5.68	1.45	1.53
1	A	658	ILE	CA-C	-5.68	1.43	1.52
4	C	406	ARG	CA-C	-5.68	1.45	1.52
8	U	28	ALA	N-CA	-5.68	1.39	1.46
3	I	172	LEU	CA-C	-5.68	1.45	1.52
8	U	82	SER	CA-C	-5.68	1.45	1.52
7	G	76	LEU	CA-C	-5.68	1.45	1.52
7	G	249	SER	C-N	-5.68	1.26	1.33
6	R	113	GLU	N-CA	-5.68	1.38	1.46
1	H	38	TYR	CA-C	-5.68	1.45	1.52
7	Q	192	VAL	N-CA	-5.68	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	T	100	ILE	N-CA	-5.68	1.39	1.46
8	L	40	GLU	CA-C	-5.68	1.45	1.52
1	H	660	ILE	N-CA	-5.68	1.39	1.46
1	A	663	GLU	N-CA	-5.68	1.39	1.46
4	C	7	ILE	N-CA	-5.68	1.39	1.46
7	Q	194	TYR	N-CA	-5.68	1.39	1.46
1	A	325	ALA	C-N	5.67	1.40	1.33
7	Q	217	LYS	N-CA	-5.67	1.39	1.46
3	B	303	LEU	N-CA	-5.67	1.39	1.46
1	A	506	LEU	N-CA	-5.67	1.39	1.45
4	C	536	TYR	CA-C	-5.67	1.45	1.52
3	I	124	LEU	CA-C	-5.67	1.45	1.52
6	P	42	VAL	CA-C	-5.67	1.46	1.52
3	B	422	GLU	N-CA	-5.67	1.39	1.46
3	I	303	LEU	N-CA	-5.67	1.39	1.46
3	I	422	GLU	N-CA	-5.67	1.39	1.46
7	G	93	LYS	N-CA	-5.67	1.39	1.46
7	K	154	SER	CA-C	-5.67	1.45	1.52
8	S	92	ALA	CA-C	-5.67	1.45	1.52
1	H	201	LEU	CA-C	-5.67	1.46	1.52
3	I	57	LEU	CA-C	-5.67	1.45	1.52
8	S	40	GLU	CA-C	-5.67	1.45	1.52
5	D	144	PHE	CA-C	-5.66	1.45	1.52
4	J	193	TYR	CA-C	-5.66	1.46	1.52
1	A	145	PRO	CA-C	-5.66	1.44	1.52
1	A	681	ALA	N-CA	-5.66	1.39	1.46
7	K	107	SER	CA-C	-5.66	1.45	1.52
7	Q	107	SER	CA-C	-5.66	1.45	1.52
3	B	124	LEU	CA-C	-5.66	1.45	1.52
7	K	194	TYR	N-CA	-5.66	1.39	1.46
4	J	433	ILE	CA-C	-5.66	1.45	1.52
4	C	777	LEU	CA-C	-5.66	1.45	1.52
4	J	402	GLU	CA-C	-5.66	1.45	1.52
4	C	433	ILE	CA-C	-5.66	1.45	1.52
1	A	570	VAL	C-O	-5.66	1.18	1.24
3	B	148	LEU	CA-C	-5.66	1.45	1.52
3	B	871	ASN	N-CA	-5.66	1.38	1.46
4	C	402	GLU	CA-C	-5.66	1.45	1.52
7	G	638	ALA	CA-C	-5.66	1.45	1.52
1	H	680	VAL	CA-C	-5.66	1.45	1.52
3	I	793	ALA	C-N	-5.66	1.26	1.33
3	I	871	ASN	N-CA	-5.66	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	660	ILE	N-CA	-5.65	1.39	1.46
5	D	147	VAL	CA-C	-5.65	1.46	1.52
7	K	91	THR	CA-C	-5.65	1.45	1.52
7	Q	212	SER	N-CA	-5.65	1.39	1.46
1	A	38	TYR	CA-C	-5.65	1.45	1.52
6	F	141	GLU	CA-C	-5.65	1.45	1.52
7	G	650	CYS	CA-C	-5.65	1.45	1.52
1	A	609	ASP	CA-C	-5.65	1.45	1.52
1	A	744	GLU	CA-C	-5.65	1.45	1.52
4	C	841	GLY	CA-C	-5.65	1.45	1.51
7	K	751	TYR	CA-C	-5.65	1.45	1.52
7	Q	216	SER	CA-C	-5.65	1.45	1.52
8	S	28	ALA	CA-C	-5.65	1.45	1.52
1	A	586	ARG	C-N	5.65	1.40	1.33
1	A	680	VAL	CA-C	-5.65	1.45	1.52
3	B	781	LEU	N-CA	-5.64	1.39	1.46
1	H	681	ALA	N-CA	-5.64	1.39	1.46
8	U	126	ASP	CA-C	-5.64	1.45	1.52
1	A	496	TRP	CA-C	-5.64	1.46	1.52
6	F	19	ARG	N-CA	-5.64	1.39	1.46
3	I	94	LEU	N-CA	-5.64	1.39	1.46
7	Q	154	SER	CA-C	-5.64	1.45	1.52
4	J	214	TRP	CA-C	-5.64	1.45	1.52
8	Z	82	SER	CA-C	-5.64	1.45	1.52
7	Q	52	LEU	N-CA	-5.64	1.39	1.46
3	I	415	ASN	N-CA	-5.64	1.39	1.46
5	N	57	VAL	N-CA	-5.64	1.39	1.46
1	A	594	PRO	C-N	-5.64	1.27	1.34
3	I	361	ASP	N-CA	-5.64	1.39	1.46
4	J	7	ILE	N-CA	-5.63	1.39	1.46
4	J	737	LYS	CA-C	-5.63	1.45	1.52
5	N	240	ASP	CA-C	-5.63	1.45	1.52
6	F	93	ASP	CA-C	-5.63	1.45	1.52
7	K	192	VAL	N-CA	-5.63	1.39	1.46
3	B	793	ALA	C-N	-5.63	1.26	1.33
4	C	291	ASP	CA-C	-5.63	1.45	1.52
7	K	638	ALA	CA-C	-5.63	1.45	1.52
7	Q	155	VAL	CA-C	-5.63	1.45	1.52
4	C	612	THR	N-CA	-5.63	1.39	1.46
6	R	123	VAL	N-CA	-5.63	1.39	1.46
7	K	840	ILE	CA-C	-5.63	1.45	1.52
3	I	835	SER	CA-C	-5.63	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	241	LEU	CA-C	-5.63	1.45	1.52
4	J	254	ARG	CA-C	-5.63	1.45	1.52
6	P	19	ARG	N-CA	-5.63	1.39	1.46
5	D	77	LEU	CA-C	-5.62	1.45	1.52
7	Q	632	SER	CA-C	-5.62	1.45	1.52
1	A	692	MET	CA-C	-5.62	1.45	1.52
4	C	241	LEU	CA-C	-5.62	1.45	1.52
4	C	610	LEU	N-CA	-5.62	1.40	1.46
7	G	215	ILE	C-O	-5.62	1.17	1.24
7	G	532	LEU	N-CA	-5.62	1.39	1.46
6	R	172	TRP	CA-C	-5.62	1.45	1.52
5	N	147	VAL	CA-C	-5.62	1.46	1.52
3	B	57	LEU	CA-C	-5.62	1.45	1.52
7	Q	638	ALA	CA-C	-5.62	1.45	1.52
1	H	560	ILE	CA-C	-5.62	1.45	1.52
4	J	458	ILE	N-CA	-5.62	1.39	1.46
6	R	127	LYS	CA-C	-5.62	1.46	1.53
8	Z	126	ASP	CA-C	-5.62	1.45	1.52
7	K	632	SER	CA-C	-5.62	1.45	1.52
1	A	436	LEU	N-CA	-5.61	1.39	1.45
3	B	361	ASP	N-CA	-5.61	1.39	1.46
4	C	232	VAL	N-CA	-5.61	1.39	1.46
7	K	727	VAL	CA-C	-5.61	1.45	1.52
3	I	413	ALA	CA-C	-5.61	1.45	1.52
3	I	781	LEU	N-CA	-5.61	1.39	1.46
6	P	141	GLU	CA-C	-5.61	1.45	1.52
7	G	840	ILE	CA-C	-5.61	1.45	1.52
3	B	413	ALA	CA-C	-5.61	1.45	1.52
7	G	374	GLU	CA-C	-5.61	1.48	1.53
7	K	752	VAL	CA-C	-5.61	1.45	1.52
7	Q	702	GLN	CA-C	-5.61	1.45	1.52
1	A	452	ASN	CA-C	-5.61	1.45	1.52
1	A	794	LEU	CA-C	-5.61	1.47	1.53
1	A	445	THR	CA-C	-5.61	1.45	1.52
4	C	203	ILE	N-CA	-5.61	1.39	1.46
4	C	458	ILE	N-CA	-5.61	1.39	1.46
7	K	44	CYS	N-CA	-5.61	1.39	1.46
7	K	52	LEU	N-CA	-5.61	1.39	1.46
1	H	609	ASP	CA-C	-5.61	1.45	1.52
1	H	794	LEU	CA-C	-5.61	1.47	1.53
1	A	220	ILE	CA-C	-5.61	1.46	1.52
3	B	414	ALA	C-O	-5.61	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	57	VAL	N-CA	-5.61	1.39	1.46
6	R	109	ARG	N-CA	-5.61	1.38	1.46
8	L	14	LYS	N-CA	-5.61	1.39	1.46
1	A	147	GLU	N-CA	-5.60	1.39	1.46
7	K	702	GLN	CA-C	-5.60	1.45	1.52
7	Q	752	VAL	CA-C	-5.60	1.45	1.52
5	D	240	ASP	CA-C	-5.60	1.45	1.52
8	U	49	PHE	CA-C	-5.60	1.45	1.52
4	J	777	LEU	CA-C	-5.60	1.45	1.52
6	R	22	MET	CA-C	-5.59	1.45	1.52
4	J	291	ASP	CA-C	-5.59	1.45	1.52
8	L	28	ALA	CA-C	-5.59	1.45	1.52
1	A	201	LEU	CA-C	-5.59	1.46	1.52
4	C	825	PRO	C-N	5.59	1.40	1.33
1	H	445	THR	CA-C	-5.59	1.45	1.52
1	H	570	VAL	C-O	-5.59	1.18	1.24
4	J	203	ILE	N-CA	-5.59	1.39	1.46
4	J	612	THR	N-CA	-5.59	1.39	1.46
7	G	92	ILE	N-CA	-5.59	1.39	1.46
8	U	30	TYR	N-CA	-5.59	1.39	1.46
3	B	835	SER	CA-C	-5.59	1.46	1.52
6	P	93	ASP	CA-C	-5.59	1.46	1.52
3	B	439	VAL	N-CA	-5.59	1.40	1.46
4	C	436	GLY	CA-C	-5.59	1.45	1.52
6	R	101	GLY	CA-C	-5.59	1.45	1.52
7	K	216	SER	CA-C	-5.59	1.45	1.52
1	H	436	LEU	N-CA	-5.59	1.39	1.45
3	I	148	LEU	CA-C	-5.59	1.45	1.52
4	J	655	LYS	CA-C	-5.59	1.45	1.52
8	S	14	LYS	N-CA	-5.59	1.39	1.46
4	C	254	ARG	CA-C	-5.58	1.45	1.52
3	I	326	HIS	N-CA	-5.58	1.40	1.46
4	J	357	THR	CA-C	-5.58	1.45	1.52
7	G	804	ILE	C-N	5.58	1.40	1.33
7	K	155	VAL	CA-C	-5.58	1.45	1.52
4	J	825	PRO	C-N	5.58	1.40	1.33
8	Z	30	TYR	N-CA	-5.58	1.39	1.46
4	J	232	VAL	N-CA	-5.58	1.39	1.46
7	Q	265	MET	N-CA	-5.58	1.39	1.46
3	B	356	LEU	CA-C	-5.58	1.45	1.52
4	C	655	LYS	CA-C	-5.58	1.45	1.52
1	H	220	ILE	CA-C	-5.58	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	138	PHE	CA-C	-5.58	1.45	1.52
3	B	803	ASN	N-CA	-5.58	1.38	1.45
8	Z	49	PHE	CA-C	-5.58	1.45	1.52
3	B	312	VAL	CA-C	-5.58	1.45	1.52
3	I	99	ILE	CA-C	-5.58	1.45	1.52
3	I	302	ASP	CA-C	-5.58	1.45	1.52
1	H	692	MET	CA-C	-5.57	1.45	1.52
8	U	66	THR	CA-C	-5.57	1.45	1.52
1	H	80	TYR	CA-C	-5.57	1.46	1.52
7	Q	111	LYS	N-CA	-5.57	1.39	1.46
3	B	138	PHE	CA-C	-5.57	1.45	1.52
8	Z	41	GLN	N-CA	-5.57	1.39	1.46
4	J	398	HIS	CA-C	-5.57	1.45	1.52
4	J	555	ALA	N-CA	-5.57	1.39	1.46
7	Q	44	CYS	N-CA	-5.57	1.39	1.46
7	Q	804	ILE	C-N	5.57	1.40	1.33
3	B	302	ASP	CA-C	-5.57	1.45	1.52
4	J	176	SER	N-CA	-5.57	1.40	1.46
5	N	49	VAL	CA-C	-5.57	1.45	1.52
4	C	556	HIS	CA-C	-5.57	1.45	1.52
7	G	88	CYS	N-CA	-5.57	1.39	1.46
4	J	677	ALA	CA-C	-5.57	1.45	1.52
7	Q	106	THR	N-CA	-5.57	1.39	1.46
4	C	249	GLU	CA-C	-5.56	1.45	1.52
7	K	56	ASN	CA-C	-5.56	1.45	1.52
7	G	309	ARG	CA-C	-5.56	1.45	1.52
7	K	804	ILE	C-N	5.56	1.40	1.33
8	L	49	PHE	N-CA	-5.56	1.39	1.46
4	C	538	SER	CA-C	-5.56	1.45	1.52
4	J	538	SER	CA-C	-5.56	1.45	1.52
1	A	80	TYR	CA-C	-5.56	1.46	1.52
3	B	408	ARG	N-CA	-5.56	1.39	1.46
3	I	350	GLU	N-CA	-5.56	1.39	1.46
3	I	356	LEU	CA-C	-5.56	1.45	1.52
4	J	207	ASP	CA-C	-5.56	1.44	1.52
4	C	110	THR	CA-C	-5.56	1.45	1.52
4	C	555	ALA	N-CA	-5.56	1.39	1.46
8	Z	145	ARG	CA-C	-5.56	1.45	1.52
7	Q	840	ILE	CA-C	-5.56	1.45	1.52
4	J	110	THR	CA-C	-5.56	1.45	1.52
1	A	623	GLN	N-CA	-5.55	1.39	1.46
3	B	99	ILE	CA-C	-5.55	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	49	VAL	CA-C	-5.55	1.45	1.52
7	G	188	ASP	CA-C	-5.55	1.46	1.53
7	G	543	ASN	CA-C	-5.55	1.45	1.52
8	Z	66	THR	CA-C	-5.55	1.45	1.52
8	U	41	GLN	N-CA	-5.55	1.39	1.46
8	U	145	ARG	CA-C	-5.55	1.45	1.52
7	G	632	SER	CA-C	-5.55	1.45	1.52
3	I	803	ASN	N-CA	-5.55	1.38	1.45
1	H	744	GLU	CA-C	-5.55	1.45	1.52
7	G	55	ILE	N-CA	-5.55	1.39	1.46
7	K	265	MET	N-CA	-5.55	1.39	1.46
7	K	302	ALA	N-CA	-5.55	1.39	1.46
1	H	147	GLU	N-CA	-5.55	1.39	1.46
3	I	461	PHE	CA-C	-5.55	1.45	1.52
3	B	337	VAL	N-CA	-5.54	1.40	1.46
3	I	312	VAL	CA-C	-5.54	1.45	1.52
1	A	560	ILE	CA-C	-5.54	1.45	1.52
6	F	29	GLY	N-CA	-5.54	1.37	1.45
7	G	152	VAL	CA-C	-5.54	1.47	1.52
3	I	431	ALA	CA-C	-5.54	1.45	1.52
8	L	110	GLU	CA-C	-5.54	1.45	1.53
1	H	705	PHE	CA-C	-5.54	1.45	1.52
1	A	705	PHE	CA-C	-5.54	1.45	1.52
3	I	353	LYS	N-CA	-5.54	1.39	1.46
5	N	78	GLU	N-CA	-5.54	1.39	1.46
4	C	207	ASP	CA-C	-5.54	1.44	1.52
4	C	357	THR	CA-C	-5.54	1.46	1.52
4	C	677	ALA	CA-C	-5.54	1.45	1.52
7	G	403	THR	CA-C	-5.54	1.45	1.52
7	G	421	ILE	CA-C	-5.54	1.46	1.52
3	I	857	GLN	N-CA	-5.54	1.39	1.46
4	J	436	GLY	CA-C	-5.54	1.45	1.52
1	A	578	VAL	C-N	5.53	1.41	1.33
7	G	682	GLU	CA-C	5.53	1.59	1.52
7	Q	147	ALA	CA-C	-5.53	1.45	1.52
8	S	49	PHE	N-CA	-5.53	1.39	1.46
3	B	192	ILE	CA-C	-5.53	1.46	1.52
1	H	452	ASN	CA-C	-5.53	1.45	1.52
3	I	439	VAL	N-CA	-5.53	1.40	1.46
7	K	258	CYS	CA-C	-5.53	1.45	1.52
1	H	578	VAL	C-N	5.53	1.41	1.33
8	S	28	ALA	N-CA	-5.53	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	326	HIS	N-CA	-5.53	1.40	1.46
3	B	796	ASP	CA-C	-5.53	1.46	1.52
4	C	688	GLU	CA-C	-5.53	1.45	1.52
7	G	262	LYS	CA-C	-5.53	1.45	1.52
4	J	522	GLU	CA-C	-5.52	1.46	1.52
1	A	253	SER	CA-C	-5.52	1.45	1.52
6	R	34	LEU	CA-C	-5.52	1.45	1.52
7	K	148	ILE	CA-C	-5.52	1.45	1.52
1	H	313	GLY	CA-C	-5.52	1.44	1.52
1	H	623	GLN	N-CA	-5.52	1.39	1.46
1	A	718	LYS	CA-C	-5.52	1.45	1.52
3	B	318	ASP	N-CA	-5.52	1.39	1.46
5	D	78	GLU	N-CA	-5.52	1.39	1.46
8	Z	76	TYR	CA-C	-5.52	1.46	1.52
3	I	337	VAL	N-CA	-5.52	1.40	1.46
3	B	857	GLN	N-CA	-5.52	1.39	1.46
7	G	691	SER	C-N	5.52	1.40	1.33
8	U	17	LEU	N-CA	-5.52	1.39	1.45
8	S	110	GLU	CA-C	-5.52	1.45	1.53
3	B	950	GLY	CA-C	-5.51	1.46	1.52
3	I	274	ALA	CA-C	-5.51	1.45	1.52
3	I	359	ALA	N-CA	-5.51	1.39	1.46
7	Q	302	ALA	N-CA	-5.51	1.39	1.46
6	T	20	ILE	CA-C	-5.51	1.45	1.52
1	H	285	GLN	N-CA	-5.51	1.39	1.46
4	J	323	GLN	CA-C	-5.51	1.45	1.52
3	B	274	ALA	CA-C	-5.51	1.45	1.52
3	B	333	LEU	CA-C	-5.51	1.45	1.52
3	B	421	MET	CA-C	-5.51	1.45	1.52
7	G	365	SER	CA-C	-5.51	1.45	1.52
1	H	253	SER	CA-C	-5.51	1.45	1.52
7	Q	258	CYS	CA-C	-5.51	1.45	1.52
1	A	439	ASN	CA-C	-5.51	1.45	1.52
4	C	506	THR	CA-C	-5.51	1.46	1.52
7	K	111	LYS	N-CA	-5.51	1.39	1.46
7	K	133	ASP	CA-C	-5.51	1.45	1.52
7	K	147	ALA	CA-C	-5.51	1.45	1.52
4	C	176	SER	N-CA	-5.51	1.41	1.46
3	B	353	LYS	N-CA	-5.51	1.39	1.46
4	C	400	SER	CA-C	-5.51	1.45	1.52
7	G	192	VAL	N-CA	-5.51	1.40	1.46
6	R	134	MET	C-N	5.51	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	716	LEU	N-CA	-5.50	1.39	1.46
4	C	248	SER	CA-C	-5.50	1.45	1.52
7	K	104	ILE	CA-C	-5.50	1.45	1.52
7	K	198	GLY	CA-C	-5.50	1.46	1.52
4	J	556	HIS	CA-C	-5.50	1.46	1.52
7	Q	56	ASN	CA-C	-5.50	1.45	1.52
3	B	304	ILE	CA-C	-5.50	1.45	1.52
1	H	716	LEU	N-CA	-5.50	1.39	1.46
5	D	3	LEU	CA-C	-5.50	1.46	1.52
7	G	68	GLU	N-CA	-5.50	1.39	1.46
8	Z	17	LEU	N-CA	-5.50	1.39	1.45
1	H	722	ILE	N-CA	-5.50	1.39	1.46
1	A	512	VAL	CA-C	-5.50	1.46	1.52
4	C	483	GLU	CA-C	-5.50	1.45	1.52
4	J	483	GLU	CA-C	-5.50	1.45	1.52
1	A	75	ILE	N-CA	-5.49	1.39	1.46
7	G	84	LEU	CA-C	-5.49	1.45	1.52
7	K	102	VAL	N-CA	-5.49	1.39	1.46
1	H	595	THR	C-N	-5.49	1.26	1.34
3	I	476	ILE	CA-C	-5.49	1.45	1.52
7	Q	102	VAL	N-CA	-5.49	1.39	1.46
1	A	313	GLY	CA-C	-5.49	1.44	1.52
3	I	192	ILE	CA-C	-5.49	1.46	1.52
3	I	287	SER	CA-C	-5.49	1.45	1.52
3	I	421	MET	CA-C	-5.49	1.45	1.52
4	C	537	THR	CA-C	-5.49	1.45	1.52
5	N	58	TYR	CA-C	-5.49	1.46	1.52
3	B	98	GLU	CA-C	-5.49	1.46	1.52
5	D	58	TYR	CA-C	-5.49	1.46	1.52
8	Z	122	PHE	N-CA	-5.49	1.39	1.46
8	L	123	LEU	N-CA	-5.49	1.39	1.46
3	I	950	GLY	CA-C	-5.49	1.46	1.52
3	B	431	ALA	CA-C	-5.49	1.45	1.52
4	J	248	SER	CA-C	-5.49	1.45	1.52
3	B	287	SER	CA-C	-5.49	1.45	1.52
3	B	476	ILE	CA-C	-5.49	1.45	1.52
7	G	160	LEU	CA-C	-5.49	1.45	1.52
1	H	499	ASP	CA-C	-5.49	1.45	1.52
3	I	408	ARG	N-CA	-5.49	1.39	1.46
4	J	688	GLU	CA-C	-5.49	1.45	1.52
7	Q	682	GLU	CA-C	5.49	1.59	1.52
8	U	122	PHE	N-CA	-5.48	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Q	148	ILE	CA-C	-5.48	1.45	1.52
8	L	28	ALA	N-CA	-5.48	1.39	1.46
6	R	65	VAL	CA-C	-5.48	1.45	1.52
3	B	350	GLU	N-CA	-5.48	1.39	1.46
4	C	718	GLY	CA-C	-5.48	1.46	1.52
1	H	718	LYS	CA-C	-5.48	1.45	1.52
3	I	316	VAL	CA-C	-5.48	1.44	1.52
4	J	537	THR	CA-C	-5.48	1.45	1.52
1	A	694	TYR	N-CA	-5.48	1.39	1.46
3	B	461	PHE	CA-C	-5.48	1.45	1.52
7	Q	104	ILE	CA-C	-5.48	1.45	1.52
7	K	771	ASN	N-CA	-5.47	1.39	1.46
3	I	304	ILE	CA-C	-5.47	1.45	1.52
3	I	333	LEU	CA-C	-5.47	1.45	1.52
4	C	143	HIS	N-CA	-5.47	1.39	1.46
7	G	137	LEU	CA-C	-5.47	1.45	1.52
6	R	55	THR	N-CA	-5.47	1.39	1.46
7	Q	771	ASN	N-CA	-5.47	1.39	1.46
1	H	428	VAL	CA-C	-5.47	1.46	1.52
7	Q	133	ASP	CA-C	-5.47	1.45	1.52
6	T	91	VAL	CA-C	-5.47	1.46	1.52
1	A	428	VAL	CA-C	-5.47	1.46	1.52
7	K	106	THR	N-CA	-5.47	1.39	1.46
7	K	682	GLU	CA-C	5.47	1.59	1.52
3	I	326	HIS	CA-C	-5.47	1.46	1.52
4	J	143	HIS	N-CA	-5.47	1.39	1.46
4	C	522	GLU	CA-C	-5.47	1.46	1.52
3	I	852	ASP	N-CA	-5.47	1.39	1.46
1	A	229	VAL	N-CA	-5.47	1.39	1.46
6	M	20	ILE	CA-C	-5.47	1.45	1.52
3	I	796	ASP	CA-C	-5.47	1.46	1.52
4	J	506	THR	CA-C	-5.47	1.46	1.52
3	B	852	ASP	N-CA	-5.46	1.39	1.46
6	T	89	ILE	N-CA	-5.46	1.39	1.46
8	L	120	GLY	CA-C	-5.46	1.46	1.52
1	A	626	ILE	N-CA	-5.46	1.39	1.46
7	G	178	VAL	CA-C	-5.46	1.45	1.52
1	H	694	TYR	N-CA	-5.46	1.39	1.46
3	I	910	LEU	CA-C	-5.46	1.46	1.52
1	H	598	LYS	N-CA	-5.46	1.39	1.46
4	C	570	ASP	CA-C	-5.46	1.45	1.52
7	Q	198	GLY	CA-C	-5.46	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	701	ASP	CA-C	-5.46	1.45	1.52
7	G	191	MET	CA-C	-5.45	1.45	1.52
7	K	859	ARG	CA-C	-5.45	1.46	1.52
7	G	647	VAL	CA-C	-5.45	1.46	1.52
6	P	29	GLY	N-CA	-5.45	1.37	1.45
7	K	166	LEU	C-O	-5.45	1.17	1.24
7	Q	148	ILE	N-CA	-5.45	1.40	1.46
1	A	701	ASP	CA-C	-5.45	1.45	1.52
7	G	478	ASN	CA-C	-5.45	1.45	1.52
8	L	114	LEU	N-CA	-5.45	1.39	1.46
1	H	229	VAL	N-CA	-5.45	1.40	1.46
4	J	440	GLY	CA-C	-5.45	1.48	1.52
8	U	76	TYR	CA-C	-5.45	1.46	1.52
3	B	326	HIS	CA-C	-5.45	1.46	1.52
6	M	91	VAL	CA-C	-5.45	1.46	1.52
3	B	910	LEU	CA-C	-5.45	1.46	1.52
4	J	400	SER	CA-C	-5.45	1.45	1.52
4	C	323	GLN	CA-C	-5.44	1.46	1.52
3	I	318	ASP	N-CA	-5.44	1.39	1.46
7	G	68	GLU	CA-C	-5.44	1.45	1.52
1	H	75	ILE	N-CA	-5.44	1.39	1.46
1	H	512	VAL	CA-C	-5.44	1.46	1.52
8	S	120	GLY	CA-C	-5.44	1.46	1.52
8	S	114	LEU	N-CA	-5.44	1.39	1.46
3	B	819	VAL	N-CA	-5.44	1.39	1.46
1	H	439	ASN	CA-C	-5.44	1.46	1.52
7	Q	250	PRO	CA-C	-5.44	1.44	1.52
1	A	677	LEU	CA-C	-5.44	1.45	1.52
4	C	90	GLU	CA-C	-5.43	1.46	1.52
4	C	554	ILE	N-CA	-5.43	1.40	1.46
7	K	180	GLU	CA-C	-5.43	1.45	1.52
6	M	89	ILE	N-CA	-5.43	1.39	1.46
5	N	114	ASP	CA-C	-5.43	1.45	1.52
6	P	77	LEU	N-CA	-5.43	1.39	1.46
7	Q	751	TYR	N-CA	-5.43	1.39	1.46
7	Q	859	ARG	CA-C	-5.43	1.46	1.52
1	A	595	THR	C-N	-5.43	1.26	1.34
8	U	91	MET	N-CA	-5.43	1.39	1.46
7	Q	691	SER	C-N	5.43	1.40	1.33
3	I	98	GLU	CA-C	-5.43	1.46	1.52
3	I	311	ASN	CA-C	-5.43	1.45	1.52
4	J	642	GLU	N-CA	-5.43	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	756	PHE	CA-C	-5.43	1.46	1.52
1	A	662	LEU	C-N	-5.43	1.26	1.33
4	C	642	GLU	N-CA	-5.43	1.39	1.46
3	I	755	VAL	CA-C	-5.43	1.46	1.52
8	S	123	LEU	N-CA	-5.43	1.39	1.46
1	A	107	TRP	C-N	5.43	1.41	1.33
1	A	598	LYS	N-CA	-5.43	1.39	1.46
7	G	859	ARG	CA-C	-5.43	1.46	1.52
4	C	440	GLY	CA-C	-5.43	1.48	1.52
7	G	520	ASP	CA-C	-5.43	1.45	1.52
3	I	369	GLU	C-N	-5.43	1.26	1.33
1	A	499	ASP	CA-C	-5.42	1.45	1.52
3	B	755	VAL	CA-C	-5.42	1.46	1.52
7	G	800	ALA	CA-C	-5.42	1.45	1.52
7	K	305	TYR	CA-C	-5.42	1.46	1.52
4	J	570	ASP	CA-C	-5.42	1.45	1.52
8	Z	91	MET	N-CA	-5.42	1.39	1.46
1	H	669	ASP	N-CA	-5.42	1.39	1.46
3	I	126	HIS	C-N	-5.42	1.25	1.33
3	I	810	GLU	N-CA	-5.42	1.38	1.46
4	J	143	HIS	CA-C	-5.42	1.46	1.52
3	B	35	PRO	CA-C	5.42	1.57	1.52
3	I	74	LEU	CA-C	-5.42	1.45	1.52
8	U	128	ILE	CA-C	-5.42	1.46	1.52
6	F	77	LEU	N-CA	-5.42	1.39	1.46
4	J	57	ASP	CA-C	-5.42	1.46	1.52
1	A	285	GLN	N-CA	-5.41	1.39	1.46
5	D	149	GLU	N-CA	-5.41	1.40	1.46
3	I	340	ILE	CA-C	-5.41	1.46	1.52
4	J	181	LEU	N-CA	-5.41	1.39	1.45
4	C	143	HIS	CA-C	-5.41	1.46	1.52
3	I	276	LYS	N-CA	-5.41	1.39	1.46
5	N	149	GLU	N-CA	-5.41	1.40	1.46
1	A	669	ASP	N-CA	-5.41	1.39	1.46
7	Q	166	LEU	C-O	-5.41	1.17	1.24
1	A	444	ILE	CA-C	-5.41	1.47	1.53
1	H	662	LEU	C-N	-5.41	1.26	1.33
3	B	276	LYS	N-CA	-5.41	1.39	1.46
3	B	369	GLU	C-N	-5.41	1.26	1.33
4	J	505	VAL	CA-C	-5.41	1.46	1.52
4	J	218	ASN	CA-C	-5.40	1.45	1.52
8	U	127	GLU	N-CA	-5.40	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	97	TRP	CA-C	-5.40	1.45	1.52
4	C	213	ILE	N-CA	-5.40	1.39	1.46
4	C	218	ASN	CA-C	-5.40	1.45	1.52
4	C	607	ASP	CA-C	-5.40	1.45	1.52
4	C	781	ASN	CA-C	-5.40	1.45	1.52
3	I	819	VAL	N-CA	-5.40	1.39	1.46
4	C	773	TRP	CA-C	-5.40	1.46	1.52
1	H	444	ILE	CA-C	-5.40	1.47	1.53
1	A	651	LEU	CA-C	-5.40	1.45	1.52
7	K	691	SER	C-N	5.40	1.40	1.33
3	I	235	GLY	CA-C	-5.40	1.47	1.52
4	J	718	GLY	CA-C	-5.40	1.46	1.52
1	A	722	ILE	N-CA	-5.40	1.39	1.46
7	G	230	CYS	CA-C	-5.40	1.46	1.52
4	J	90	GLU	CA-C	-5.40	1.46	1.52
4	J	554	ILE	N-CA	-5.40	1.40	1.46
4	J	662	VAL	CA-C	-5.40	1.45	1.52
6	P	65	VAL	N-CA	-5.40	1.39	1.46
3	B	316	VAL	CA-C	-5.40	1.44	1.52
3	B	359	ALA	N-CA	-5.40	1.39	1.46
1	H	133	GLY	CA-C	-5.40	1.44	1.51
1	A	255	ALA	N-CA	-5.39	1.40	1.46
7	G	772	PHE	CA-C	-5.39	1.46	1.52
7	G	848	LEU	CA-C	-5.39	1.46	1.52
1	H	255	ALA	N-CA	-5.39	1.40	1.46
7	Q	305	TYR	CA-C	-5.39	1.46	1.52
6	F	65	VAL	N-CA	-5.39	1.39	1.46
7	K	751	TYR	N-CA	-5.39	1.39	1.46
8	L	15	ALA	CA-C	-5.39	1.46	1.52
1	H	651	LEU	CA-C	-5.39	1.45	1.52
6	T	53	VAL	CA-C	-5.39	1.46	1.52
7	K	683	PRO	CA-C	5.39	1.58	1.52
4	C	181	LEU	N-CA	-5.39	1.39	1.45
7	Q	772	PHE	CA-C	-5.39	1.46	1.52
3	B	311	ASN	CA-C	-5.38	1.45	1.52
7	G	723	THR	CA-C	-5.38	1.46	1.52
1	H	677	LEU	CA-C	-5.38	1.45	1.52
3	I	454	VAL	N-CA	-5.38	1.40	1.46
4	C	57	ASP	CA-C	-5.38	1.46	1.52
6	M	26	ASP	CA-C	-5.38	1.45	1.52
7	K	250	PRO	CA-C	-5.38	1.44	1.52
5	N	3	LEU	CA-C	-5.38	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	133	GLY	CA-C	-5.38	1.44	1.51
7	K	848	LEU	CA-C	-5.38	1.46	1.52
7	K	856	VAL	CA-C	-5.38	1.46	1.52
3	I	97	TRP	CA-C	-5.38	1.45	1.52
3	B	126	HIS	C-N	-5.38	1.25	1.33
3	B	922	ALA	CA-C	-5.38	1.46	1.52
4	C	761	TYR	N-CA	-5.38	1.40	1.46
8	Z	127	GLU	N-CA	-5.37	1.39	1.46
7	Q	180	GLU	CA-C	-5.37	1.45	1.52
6	T	26	ASP	CA-C	-5.37	1.45	1.52
7	K	772	PHE	CA-C	-5.37	1.46	1.52
3	I	130	PHE	CA-C	-5.37	1.45	1.52
3	B	235	GLY	CA-C	-5.37	1.47	1.52
7	K	295	PHE	CA-C	-5.37	1.45	1.52
4	J	607	ASP	CA-C	-5.37	1.45	1.52
3	I	35	PRO	CA-C	5.37	1.57	1.52
3	B	810	GLU	N-CA	-5.36	1.38	1.46
7	K	723	THR	CA-C	-5.36	1.46	1.52
7	K	800	ALA	CA-C	-5.36	1.45	1.52
8	L	91	MET	N-CA	-5.36	1.39	1.46
3	I	62	ILE	N-CA	-5.36	1.40	1.46
4	J	122	LEU	CA-C	-5.36	1.46	1.52
7	G	212	SER	CA-C	-5.36	1.46	1.52
7	Q	723	THR	CA-C	-5.36	1.46	1.52
3	B	74	LEU	CA-C	-5.36	1.45	1.52
8	L	38	VAL	N-CA	-5.36	1.40	1.46
1	H	641	PHE	CA-C	-5.36	1.46	1.52
4	J	83	VAL	CA-C	-5.36	1.46	1.52
7	Q	108	SER	CA-C	-5.36	1.45	1.52
5	D	114	ASP	CA-C	-5.36	1.45	1.52
8	S	91	MET	N-CA	-5.36	1.39	1.46
3	I	449	LEU	CA-C	-5.36	1.45	1.52
8	S	15	ALA	CA-C	-5.36	1.46	1.52
7	G	771	ASN	N-CA	-5.36	1.40	1.46
1	H	626	ILE	N-CA	-5.36	1.39	1.46
7	Q	295	PHE	CA-C	-5.36	1.45	1.52
4	J	262	ARG	N-CA	-5.35	1.39	1.45
8	S	66	THR	CA-C	-5.35	1.45	1.52
4	C	122	LEU	CA-C	-5.35	1.46	1.52
7	Q	169	CYS	N-CA	-5.35	1.40	1.46
4	C	70	ASN	CA-C	-5.35	1.46	1.52
4	C	459	ARG	N-CA	-5.35	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	K	90	LEU	N-CA	-5.35	1.40	1.46
8	U	29	LYS	N-CA	-5.35	1.39	1.46
1	A	657	ASN	CA-C	-5.35	1.45	1.52
4	C	810	TRP	N-CA	-5.35	1.40	1.46
3	I	193	HIS	N-CA	-5.35	1.39	1.46
3	I	922	ALA	CA-C	-5.35	1.46	1.52
4	J	478	CYS	N-CA	-5.35	1.39	1.46
4	J	761	TYR	N-CA	-5.35	1.40	1.46
7	Q	90	LEU	N-CA	-5.35	1.40	1.46
7	G	477	TYR	N-CA	-5.35	1.39	1.46
3	B	340	ILE	CA-C	-5.34	1.46	1.52
8	Z	128	ILE	CA-C	-5.34	1.46	1.52
8	U	78	TYR	CA-C	-5.34	1.46	1.52
3	B	151	LEU	N-CA	-5.34	1.39	1.46
4	J	27	GLU	CA-C	-5.34	1.46	1.52
6	M	53	VAL	CA-C	-5.34	1.46	1.52
4	J	368	VAL	N-CA	-5.34	1.40	1.46
4	J	424	PHE	N-CA	-5.34	1.39	1.46
3	B	454	VAL	N-CA	-5.34	1.40	1.46
4	C	83	VAL	CA-C	-5.34	1.46	1.52
7	G	249	SER	N-CA	-5.34	1.42	1.46
8	S	38	VAL	N-CA	-5.34	1.40	1.46
3	B	193	HIS	N-CA	-5.34	1.40	1.46
8	L	95	ASN	CA-C	-5.34	1.46	1.52
1	H	689	ILE	N-CA	-5.34	1.40	1.46
3	B	305	ILE	CA-C	-5.34	1.45	1.52
7	G	210	ALA	N-CA	-5.34	1.40	1.46
8	L	94	LEU	N-CA	-5.34	1.40	1.46
4	J	773	TRP	CA-C	-5.34	1.46	1.52
4	J	810	TRP	N-CA	-5.34	1.40	1.46
7	G	293	GLN	CA-C	-5.33	1.46	1.52
3	I	77	ILE	N-CA	-5.33	1.40	1.46
7	Q	848	LEU	CA-C	-5.33	1.46	1.52
4	C	27	GLU	CA-C	-5.33	1.46	1.52
8	Z	78	TYR	CA-C	-5.33	1.46	1.52
4	J	70	ASN	CA-C	-5.33	1.46	1.52
7	K	148	ILE	N-CA	-5.33	1.40	1.46
8	L	66	THR	CA-C	-5.33	1.46	1.52
4	J	213	ILE	N-CA	-5.33	1.39	1.46
4	J	781	ASN	CA-C	-5.33	1.45	1.52
4	J	437	PHE	CA-C	-5.33	1.45	1.52
6	P	76	SER	CA-C	-5.33	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	U	24	ASP	N-CA	-5.33	1.38	1.45
4	C	337	ASP	CA-C	-5.33	1.45	1.52
7	Q	683	PRO	CA-C	5.33	1.58	1.52
1	A	689	ILE	N-CA	-5.33	1.40	1.46
3	B	77	ILE	N-CA	-5.33	1.40	1.46
8	Z	24	ASP	N-CA	-5.33	1.38	1.45
7	K	169	CYS	N-CA	-5.33	1.40	1.46
8	L	146	VAL	CA-C	-5.33	1.46	1.53
1	H	147	GLU	CA-C	-5.33	1.46	1.52
3	I	305	ILE	CA-C	-5.33	1.45	1.52
4	J	317	ALA	CA-C	-5.33	1.46	1.52
4	C	262	ARG	N-CA	-5.32	1.39	1.45
4	C	376	ILE	CA-C	-5.32	1.46	1.52
1	H	267	ASN	CA-C	-5.32	1.46	1.52
4	C	505	VAL	CA-C	-5.32	1.46	1.52
3	B	130	PHE	CA-C	-5.32	1.45	1.52
3	I	817	ASN	N-CA	-5.32	1.39	1.46
1	A	641	PHE	CA-C	-5.32	1.46	1.52
4	C	271	MET	CA-C	-5.32	1.44	1.52
4	J	237	PHE	CA-C	-5.32	1.46	1.52
4	C	734	LEU	CA-C	-5.32	1.45	1.52
5	D	7	ALA	CA-C	-5.32	1.46	1.52
7	G	399	ASN	CA-C	-5.32	1.46	1.52
7	Q	40	ASN	CA-C	-5.32	1.46	1.52
7	K	40	ASN	CA-C	-5.31	1.46	1.52
8	S	94	LEU	N-CA	-5.31	1.40	1.46
1	A	147	GLU	CA-C	-5.31	1.46	1.52
3	I	301	ILE	N-CA	-5.31	1.40	1.46
8	S	25	ARG	CA-C	-5.31	1.46	1.52
4	C	512	ASP	CA-C	-5.31	1.47	1.53
7	Q	237	SER	N-CA	-5.31	1.39	1.46
4	C	437	PHE	CA-C	-5.31	1.45	1.52
1	H	107	TRP	C-N	5.31	1.41	1.33
4	J	273	ARG	N-CA	-5.31	1.39	1.46
7	Q	800	ALA	CA-C	-5.31	1.45	1.52
4	C	153	LYS	CA-C	-5.31	1.46	1.52
7	K	237	SER	N-CA	-5.31	1.39	1.46
6	F	76	SER	CA-C	-5.31	1.45	1.52
5	N	163	ALA	CA-C	-5.31	1.46	1.52
7	K	108	SER	CA-C	-5.30	1.45	1.52
6	M	72	ASP	CA-C	-5.30	1.45	1.52
1	H	681	ALA	C-O	-5.30	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	S	146	VAL	CA-C	-5.30	1.46	1.53
4	C	662	VAL	CA-C	-5.30	1.46	1.52
6	R	119	ALA	CA-C	-5.30	1.46	1.52
8	Z	124	ALA	N-CA	-5.30	1.39	1.46
6	P	31	THR	N-CA	-5.30	1.39	1.46
3	B	419	VAL	N-CA	-5.30	1.40	1.46
3	B	449	LEU	CA-C	-5.30	1.45	1.52
3	I	419	VAL	N-CA	-5.30	1.40	1.46
4	J	337	ASP	CA-C	-5.30	1.45	1.52
4	J	468	ILE	CA-C	-5.30	1.46	1.52
6	R	116	LEU	CA-C	-5.30	1.45	1.52
8	Z	29	LYS	N-CA	-5.30	1.39	1.46
7	K	163	SER	N-CA	-5.30	1.40	1.46
4	J	271	MET	CA-C	-5.30	1.44	1.52
3	B	268	LEU	CA-C	-5.30	1.45	1.53
5	D	163	ALA	CA-C	-5.30	1.46	1.52
7	K	216	SER	N-CA	-5.30	1.39	1.46
4	J	640	ASP	CA-C	-5.30	1.46	1.52
7	Q	237	SER	CA-C	-5.30	1.46	1.52
8	L	80	ILE	CA-C	-5.29	1.46	1.52
1	H	758	ALA	N-CA	-5.29	1.40	1.46
1	A	442	ASN	CA-C	-5.29	1.45	1.53
6	R	30	LYS	N-CA	-5.29	1.40	1.46
7	G	480	VAL	N-CA	-5.29	1.40	1.46
7	G	533	ASN	N-CA	-5.29	1.39	1.46
4	J	632	GLN	CA-C	-5.29	1.46	1.52
1	A	392	ASP	N-CA	-5.29	1.39	1.46
1	A	693	CYS	CA-C	-5.29	1.46	1.52
4	C	237	PHE	CA-C	-5.29	1.46	1.52
7	G	56	ASN	CA-C	-5.29	1.46	1.52
4	J	153	LYS	CA-C	-5.29	1.46	1.52
8	U	110	GLU	CA-C	-5.29	1.46	1.52
1	H	668	LEU	CA-C	-5.29	1.45	1.52
4	C	186	LYS	N-CA	-5.29	1.39	1.46
1	H	391	TYR	N-CA	-5.29	1.39	1.46
4	C	557	LEU	CA-C	-5.28	1.46	1.52
4	C	632	GLN	CA-C	-5.28	1.46	1.52
1	H	265	LEU	CA-C	-5.28	1.46	1.52
1	H	429	LEU	CA-C	-5.28	1.46	1.52
4	C	478	CYS	N-CA	-5.28	1.40	1.46
7	G	683	PRO	CA-C	5.28	1.58	1.52
3	I	800	ILE	N-CA	-5.28	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	512	ASP	CA-C	-5.28	1.47	1.53
7	K	84	LEU	N-CA	-5.28	1.40	1.46
1	A	391	TYR	N-CA	-5.28	1.39	1.46
4	C	368	VAL	N-CA	-5.28	1.40	1.46
8	Z	110	GLU	CA-C	-5.28	1.46	1.52
7	K	637	VAL	CA-C	-5.28	1.46	1.52
3	B	474	LEU	N-CA	-5.28	1.40	1.46
4	C	273	ARG	N-CA	-5.28	1.39	1.46
4	C	424	PHE	N-CA	-5.28	1.39	1.46
4	C	640	ASP	CA-C	-5.28	1.46	1.52
3	I	151	LEU	N-CA	-5.28	1.39	1.46
3	I	192	ILE	N-CA	-5.28	1.40	1.46
4	J	492	SER	CA-C	-5.28	1.46	1.52
8	S	139	PRO	N-CA	-5.28	1.40	1.47
1	H	693	CYS	CA-C	-5.27	1.46	1.52
1	A	668	LEU	CA-C	-5.27	1.45	1.52
8	L	89	MET	N-CA	-5.27	1.39	1.46
6	M	159	CYS	N-CA	-5.27	1.39	1.46
4	J	678	ILE	N-CA	-5.27	1.40	1.46
4	J	186	LYS	N-CA	-5.27	1.39	1.46
7	Q	163	SER	N-CA	-5.27	1.40	1.46
1	A	211	ALA	CA-C	-5.27	1.46	1.52
3	B	381	LYS	CA-C	-5.27	1.46	1.52
3	B	771	CYS	CA-C	-5.27	1.45	1.52
3	I	52	SER	N-CA	-5.27	1.39	1.46
3	I	268	LEU	CA-C	-5.27	1.45	1.53
4	J	469	PHE	N-CA	-5.27	1.39	1.46
7	Q	51	ILE	CA-C	-5.27	1.46	1.52
6	F	31	THR	N-CA	-5.27	1.39	1.46
1	H	392	ASP	N-CA	-5.27	1.39	1.46
8	L	39	LYS	N-CA	-5.27	1.40	1.46
1	A	587	PRO	C-N	5.26	1.40	1.33
7	G	637	VAL	CA-C	-5.26	1.46	1.52
1	H	471	SER	CA-C	-5.26	1.45	1.52
6	T	72	ASP	CA-C	-5.26	1.45	1.52
1	A	267	ASN	CA-C	-5.26	1.46	1.52
1	A	412	ARG	CA-C	-5.26	1.46	1.52
5	N	7	ALA	CA-C	-5.26	1.46	1.52
1	A	430	ASP	CA-C	-5.26	1.46	1.52
4	C	443	SER	CA-C	-5.26	1.45	1.52
7	Q	856	VAL	CA-C	-5.26	1.46	1.52
1	A	263	LEU	CA-C	-5.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	474	LEU	C-N	5.26	1.40	1.33
7	G	532	LEU	CA-C	-5.26	1.46	1.52
1	A	466	LEU	N-CA	-5.26	1.39	1.46
7	G	725	SER	CA-C	-5.26	1.46	1.52
1	H	442	ASN	CA-C	-5.26	1.45	1.53
1	H	587	PRO	C-N	5.26	1.40	1.33
3	I	382	THR	CA-C	-5.26	1.45	1.52
3	B	817	ASN	N-CA	-5.26	1.39	1.46
7	G	63	THR	CA-C	-5.26	1.46	1.52
7	K	830	LEU	C-N	5.26	1.40	1.33
3	I	317	LEU	C-N	-5.26	1.26	1.34
3	I	966	THR	CA-C	5.25	1.59	1.52
3	B	62	ILE	N-CA	-5.25	1.40	1.46
7	G	73	MET	N-CA	-5.25	1.39	1.46
3	I	205	LYS	CA-C	-5.25	1.46	1.52
4	J	459	ARG	N-CA	-5.25	1.39	1.46
7	Q	637	VAL	CA-C	-5.25	1.46	1.52
3	B	93	LEU	CA-C	-5.25	1.46	1.52
8	U	124	ALA	N-CA	-5.25	1.40	1.46
3	B	394	TYR	N-CA	-5.25	1.40	1.46
7	G	145	LYS	N-CA	-5.25	1.40	1.46
4	J	782	GLN	CA-C	-5.25	1.45	1.52
3	B	205	LYS	CA-C	-5.25	1.46	1.52
7	G	483	GLU	CA-C	-5.25	1.46	1.53
3	I	93	LEU	CA-C	-5.25	1.46	1.52
4	C	468	ILE	CA-C	-5.25	1.46	1.52
4	C	656	ILE	N-CA	-5.25	1.40	1.46
7	G	291	VAL	CA-C	-5.25	1.46	1.52
3	I	771	CYS	CA-C	-5.25	1.45	1.52
1	A	519	ASP	N-CA	-5.25	1.40	1.46
8	S	94	LEU	CA-C	-5.25	1.46	1.52
3	B	301	ILE	N-CA	-5.24	1.40	1.46
4	C	739	ASP	N-CA	-5.24	1.40	1.46
4	J	376	ILE	CA-C	-5.24	1.46	1.52
7	Q	84	LEU	N-CA	-5.24	1.40	1.46
8	S	89	MET	N-CA	-5.24	1.40	1.46
6	R	35	TYR	N-CA	-5.24	1.39	1.46
3	B	52	SER	N-CA	-5.24	1.40	1.46
1	H	466	LEU	N-CA	-5.24	1.39	1.46
3	I	381	LYS	CA-C	-5.24	1.46	1.52
3	I	959	ILE	N-CA	-5.24	1.40	1.46
7	G	294	LEU	N-CA	-5.24	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	856	VAL	CA-C	-5.24	1.46	1.52
1	H	519	ASP	N-CA	-5.24	1.40	1.46
7	Q	683	PRO	N-CA	5.24	1.52	1.46
3	B	382	THR	CA-C	-5.24	1.45	1.52
7	Q	216	SER	N-CA	-5.24	1.39	1.46
7	G	146	GLN	N-CA	-5.23	1.40	1.46
6	T	20	ILE	N-CA	-5.23	1.40	1.46
1	A	265	LEU	CA-C	-5.23	1.46	1.52
4	C	469	PHE	N-CA	-5.23	1.39	1.46
7	K	639	LEU	CA-C	-5.23	1.45	1.52
4	J	557	LEU	CA-C	-5.23	1.46	1.52
4	C	678	ILE	N-CA	-5.23	1.40	1.46
7	K	86	ARG	CA-C	-5.23	1.45	1.52
7	K	237	SER	CA-C	-5.23	1.46	1.52
3	I	776	ALA	CA-C	-5.23	1.45	1.52
7	Q	227	PHE	N-CA	-5.23	1.39	1.46
4	C	317	ALA	CA-C	-5.23	1.46	1.52
7	K	233	ILE	N-CA	-5.23	1.40	1.46
3	B	317	LEU	C-N	-5.23	1.26	1.34
7	K	227	PHE	N-CA	-5.23	1.39	1.46
6	T	159	CYS	N-CA	-5.23	1.39	1.46
1	A	471	SER	CA-C	-5.22	1.45	1.52
7	K	85	ARG	N-CA	-5.22	1.40	1.46
3	I	394	TYR	N-CA	-5.22	1.40	1.46
7	Q	830	LEU	C-N	5.22	1.40	1.33
1	A	429	LEU	CA-C	-5.22	1.46	1.52
7	G	113	MET	N-CA	-5.22	1.40	1.46
7	G	297	SER	CA-C	-5.22	1.45	1.52
3	I	284	VAL	CA-C	-5.22	1.45	1.52
3	I	471	ARG	N-CA	-5.22	1.40	1.46
4	J	739	ASP	N-CA	-5.22	1.40	1.46
8	S	95	ASN	CA-C	-5.22	1.46	1.52
1	H	412	ARG	CA-C	-5.22	1.46	1.52
4	J	156	ASN	N-CA	-5.22	1.39	1.46
4	J	734	LEU	CA-C	-5.22	1.46	1.52
1	A	120	TRP	C-N	5.22	1.40	1.33
4	C	425	LYS	CA-C	-5.22	1.46	1.52
8	L	139	PRO	N-CA	-5.22	1.40	1.47
5	N	106	CYS	CA-C	-5.22	1.46	1.52
3	B	272	SER	C-N	-5.21	1.27	1.34
7	G	90	LEU	N-CA	-5.21	1.40	1.46
8	L	25	ARG	CA-C	-5.21	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	L	94	LEU	CA-C	-5.21	1.46	1.52
1	H	661	ALA	CA-C	-5.21	1.46	1.52
1	H	704	SER	CA-C	-5.21	1.46	1.52
5	N	241	LYS	CA-C	-5.21	1.46	1.52
7	Q	44	CYS	CA-C	-5.21	1.46	1.52
7	Q	86	ARG	CA-C	-5.21	1.45	1.52
8	S	80	ILE	CA-C	-5.21	1.46	1.52
5	D	162	LYS	CA-C	-5.21	1.46	1.52
7	G	751	TYR	N-CA	-5.21	1.39	1.45
4	J	292	GLU	CA-C	-5.21	1.45	1.52
4	J	481	THR	CA-C	-5.21	1.47	1.53
3	B	403	HIS	CA-C	-5.21	1.46	1.52
3	I	181	PHE	N-CA	-5.21	1.39	1.46
4	J	425	LYS	CA-C	-5.21	1.46	1.52
5	N	129	GLN	CA-C	-5.21	1.46	1.52
6	T	48	THR	N-CA	-5.21	1.39	1.46
3	B	855	PHE	N-CA	-5.21	1.40	1.46
4	C	756	PHE	CA-C	-5.21	1.46	1.52
1	H	615	VAL	CA-C	-5.21	1.46	1.52
7	Q	85	ARG	N-CA	-5.21	1.40	1.46
3	B	201	ASP	CA-C	-5.21	1.46	1.52
4	C	156	ASN	N-CA	-5.21	1.39	1.46
1	H	657	ASN	CA-C	-5.21	1.45	1.52
7	K	34	PHE	CA-C	-5.21	1.46	1.52
6	T	78	TRP	N-CA	-5.21	1.39	1.46
1	A	438	LYS	CA-C	-5.20	1.46	1.52
1	A	638	ALA	CA-C	-5.20	1.46	1.52
7	K	872	SER	C-O	-5.20	1.18	1.24
4	J	450	TYR	N-CA	-5.20	1.39	1.45
3	B	800	ILE	N-CA	-5.20	1.40	1.46
7	G	27	VAL	N-CA	-5.20	1.40	1.46
7	G	34	PHE	CA-C	-5.20	1.45	1.52
7	K	202	HIS	C-N	-5.20	1.27	1.33
1	H	430	ASP	CA-C	-5.20	1.46	1.52
6	P	138	GLU	CA-C	-5.20	1.46	1.52
3	B	776	ALA	CA-C	-5.20	1.45	1.52
1	H	211	ALA	CA-C	-5.20	1.46	1.52
3	I	272	SER	C-N	-5.20	1.27	1.34
4	C	492	SER	CA-C	-5.20	1.46	1.52
7	K	51	ILE	CA-C	-5.20	1.46	1.52
8	L	15	ALA	N-CA	-5.20	1.39	1.46
3	I	202	ALA	CA-C	-5.20	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	162	TRP	CA-C	-5.19	1.46	1.52
4	C	292	GLU	CA-C	-5.19	1.45	1.52
1	A	639	LEU	N-CA	-5.19	1.40	1.46
3	B	811	ASN	N-CA	-5.19	1.39	1.46
4	C	450	TYR	N-CA	-5.19	1.39	1.45
1	H	91	GLY	CA-C	-5.19	1.47	1.52
1	H	120	TRP	C-N	5.19	1.40	1.33
3	I	201	ASP	CA-C	-5.19	1.46	1.52
3	I	811	ASN	N-CA	-5.19	1.39	1.46
5	D	129	GLN	CA-C	-5.19	1.46	1.52
5	D	241	LYS	CA-C	-5.19	1.46	1.52
7	G	174	VAL	C-N	-5.19	1.27	1.33
7	G	872	SER	C-O	-5.19	1.18	1.24
3	I	855	PHE	N-CA	-5.19	1.40	1.46
1	A	681	ALA	C-O	-5.19	1.18	1.24
4	C	481	THR	CA-C	-5.19	1.47	1.53
8	U	80	ILE	CA-C	-5.19	1.46	1.52
1	A	34	GLN	CA-C	-5.19	1.46	1.52
3	I	190	GLU	N-CA	-5.19	1.40	1.46
8	S	39	LYS	N-CA	-5.19	1.40	1.46
3	B	284	VAL	CA-C	-5.19	1.45	1.52
7	Q	233	ILE	N-CA	-5.19	1.40	1.46
6	F	138	GLU	CA-C	-5.18	1.46	1.52
1	H	465	LEU	CA-C	-5.18	1.45	1.52
3	I	474	LEU	N-CA	-5.18	1.40	1.46
4	J	815	HIS	N-CA	-5.18	1.40	1.46
3	B	190	GLU	N-CA	-5.18	1.40	1.46
3	B	192	ILE	N-CA	-5.18	1.40	1.46
4	C	817	ASP	CA-C	-5.18	1.45	1.52
4	J	647	LEU	CA-C	-5.18	1.46	1.52
4	J	817	ASP	CA-C	-5.18	1.45	1.52
7	Q	202	HIS	C-N	-5.18	1.27	1.33
4	C	647	LEU	CA-C	-5.18	1.46	1.52
7	K	44	CYS	CA-C	-5.18	1.46	1.52
7	K	850	ASP	CA-C	-5.18	1.45	1.52
1	H	34	GLN	CA-C	-5.18	1.46	1.52
5	D	106	CYS	CA-C	-5.18	1.46	1.52
1	H	474	LEU	C-N	5.18	1.40	1.33
4	J	258	SER	N-CA	-5.18	1.40	1.46
7	Q	835	ARG	CA-C	-5.18	1.46	1.52
3	B	473	ALA	N-CA	-5.17	1.40	1.46
4	C	529	TRP	N-CA	-5.17	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	704	SER	CA-C	-5.17	1.46	1.52
3	B	959	ILE	N-CA	-5.17	1.40	1.46
6	R	40	GLY	CA-C	-5.17	1.44	1.51
7	K	683	PRO	N-CA	5.17	1.52	1.46
3	I	260	PHE	CA-C	-5.17	1.46	1.52
7	Q	34	PHE	CA-C	-5.17	1.46	1.52
1	A	629	LEU	N-CA	-5.17	1.39	1.46
7	G	639	LEU	CA-C	-5.17	1.45	1.52
3	B	304	ILE	N-CA	-5.17	1.40	1.46
3	B	782	LYS	N-CA	-5.17	1.39	1.45
1	H	629	LEU	N-CA	-5.17	1.39	1.46
5	N	79	ASP	N-CA	-5.17	1.40	1.46
5	N	162	LYS	CA-C	-5.17	1.46	1.52
7	Q	725	SER	CA-C	-5.17	1.46	1.52
3	B	90	LYS	CA-C	-5.17	1.46	1.52
3	B	966	THR	CA-C	5.17	1.59	1.52
4	C	340	ARG	C-N	5.17	1.39	1.32
7	G	75	LYS	CA-C	-5.17	1.45	1.52
7	G	830	LEU	C-N	5.17	1.40	1.33
1	H	263	LEU	CA-C	-5.17	1.46	1.52
1	H	561	ILE	CA-C	-5.17	1.46	1.52
3	I	403	HIS	CA-C	-5.17	1.46	1.52
3	I	938	VAL	N-CA	-5.17	1.39	1.46
4	J	443	SER	CA-C	-5.17	1.46	1.52
1	A	758	ALA	N-CA	-5.17	1.40	1.46
3	I	165	TYR	CA-C	-5.17	1.46	1.52
7	Q	639	LEU	CA-C	-5.17	1.45	1.52
4	C	65	PHE	CA-C	-5.16	1.46	1.52
5	D	129	GLN	N-CA	-5.16	1.40	1.46
1	H	438	LYS	CA-C	-5.16	1.46	1.52
7	Q	872	SER	C-O	-5.16	1.18	1.24
4	J	340	ARG	C-N	5.16	1.39	1.32
6	R	128	GLN	CA-C	-5.16	1.46	1.52
7	K	197	LEU	CA-C	-5.16	1.45	1.52
3	I	90	LYS	CA-C	-5.16	1.46	1.52
4	J	529	TRP	N-CA	-5.16	1.39	1.46
8	S	15	ALA	N-CA	-5.16	1.39	1.46
1	A	543	TYR	CA-C	-5.16	1.46	1.52
3	B	269	GLN	N-CA	-5.16	1.39	1.46
3	B	471	ARG	N-CA	-5.16	1.40	1.46
3	B	963	GLN	CA-C	-5.16	1.46	1.52
6	F	96	ASP	CA-C	-5.16	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	G	147	ALA	N-CA	-5.16	1.40	1.46
3	I	782	LYS	N-CA	-5.16	1.39	1.45
1	A	465	LEU	CA-C	-5.16	1.45	1.52
8	Z	88	LEU	N-CA	-5.16	1.40	1.46
1	H	110	SER	CA-C	-5.16	1.46	1.52
1	H	162	TRP	CA-C	-5.16	1.46	1.52
1	H	639	LEU	N-CA	-5.16	1.40	1.46
4	J	194	TYR	CA-C	-5.16	1.46	1.52
4	C	111	GLN	CA-C	-5.16	1.45	1.53
7	K	43	LYS	CA-C	-5.16	1.46	1.52
7	K	835	ARG	CA-C	-5.16	1.46	1.52
1	A	91	GLY	CA-C	-5.15	1.47	1.52
7	K	725	SER	CA-C	-5.15	1.46	1.52
7	Q	658	HIS	CA-C	-5.15	1.46	1.52
1	A	286	THR	N-CA	-5.15	1.39	1.46
1	A	561	ILE	CA-C	-5.15	1.46	1.52
7	G	239	GLN	CA-C	-5.15	1.46	1.52
7	G	850	ASP	CA-C	-5.15	1.45	1.52
4	J	506	THR	N-CA	-5.15	1.40	1.46
7	Q	88	CYS	N-CA	-5.15	1.40	1.46
3	B	181	PHE	N-CA	-5.15	1.39	1.46
6	P	79	ARG	CA-C	-5.15	1.45	1.52
6	T	35	TYR	N-CA	-5.15	1.39	1.46
4	C	258	SER	N-CA	-5.15	1.40	1.46
1	H	638	ALA	CA-C	-5.15	1.46	1.52
8	S	135	LEU	N-CA	-5.15	1.39	1.46
4	C	782	GLN	CA-C	-5.15	1.45	1.52
7	G	534	VAL	CA-C	-5.15	1.46	1.52
8	L	125	VAL	N-CA	-5.15	1.40	1.46
1	H	65	LEU	CA-C	-5.15	1.46	1.52
3	I	963	GLN	CA-C	-5.15	1.46	1.52
4	J	65	PHE	CA-C	-5.15	1.46	1.52
4	J	656	ILE	N-CA	-5.15	1.40	1.46
7	G	214	MET	N-CA	-5.15	1.40	1.46
1	A	553	VAL	C-N	5.14	1.40	1.33
7	K	255	ILE	N-CA	-5.14	1.40	1.46
6	M	20	ILE	N-CA	-5.14	1.40	1.46
4	J	144	TYR	CA-C	-5.14	1.46	1.52
8	S	109	VAL	CA-C	-5.14	1.45	1.52
6	M	78	TRP	N-CA	-5.14	1.39	1.46
1	H	553	VAL	C-N	5.14	1.40	1.33
3	I	473	ALA	N-CA	-5.14	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	615	VAL	CA-C	-5.14	1.46	1.52
4	J	179	PHE	CA-C	-5.14	1.46	1.52
8	U	88	LEU	N-CA	-5.14	1.40	1.46
7	Q	197	LEU	CA-C	-5.14	1.45	1.52
1	H	286	THR	N-CA	-5.14	1.39	1.46
1	H	344	LEU	N-CA	-5.14	1.38	1.46
3	I	304	ILE	N-CA	-5.14	1.40	1.46
4	J	420	GLU	CA-C	-5.14	1.46	1.52
1	A	661	ALA	CA-C	-5.14	1.46	1.52
8	Z	80	ILE	CA-C	-5.14	1.46	1.52
8	S	66	THR	N-CA	-5.14	1.39	1.46
1	A	344	LEU	N-CA	-5.13	1.38	1.46
3	B	117	CYS	N-CA	-5.13	1.40	1.46
5	D	9	CYS	CA-C	-5.13	1.46	1.52
4	J	325	ALA	N-CA	-5.13	1.39	1.46
4	J	457	LEU	CA-C	-5.13	1.46	1.52
7	Q	850	ASP	CA-C	-5.13	1.45	1.52
1	A	658	ILE	N-CA	-5.13	1.39	1.46
4	J	621	VAL	N-CA	-5.13	1.40	1.46
7	Q	300	LYS	CA-C	-5.13	1.45	1.53
4	C	815	HIS	N-CA	-5.13	1.40	1.46
3	I	417	ILE	N-CA	-5.13	1.40	1.46
1	A	626	ILE	CA-C	-5.13	1.46	1.52
3	B	202	ALA	CA-C	-5.13	1.46	1.52
6	F	28	ALA	CA-C	-5.13	1.45	1.52
6	M	35	TYR	N-CA	-5.13	1.39	1.46
4	J	646	GLU	CA-C	-5.13	1.46	1.52
3	I	269	GLN	N-CA	-5.12	1.39	1.46
3	B	938	VAL	N-CA	-5.12	1.40	1.46
4	J	111	GLN	CA-C	-5.12	1.45	1.52
3	B	52	SER	CA-C	-5.12	1.46	1.52
4	C	179	PHE	CA-C	-5.12	1.46	1.52
4	C	420	GLU	CA-C	-5.12	1.46	1.52
4	C	530	VAL	N-CA	-5.12	1.39	1.46
5	N	129	GLN	N-CA	-5.12	1.40	1.46
4	C	616	GLU	N-CA	-5.12	1.40	1.46
7	K	88	CYS	N-CA	-5.12	1.40	1.46
1	A	542	ILE	N-CA	-5.12	1.40	1.46
3	B	308	SER	N-CA	-5.12	1.39	1.46
3	B	375	LEU	N-CA	-5.12	1.40	1.46
3	B	845	ILE	N-CA	-5.12	1.40	1.46
4	C	242	PRO	N-CA	-5.12	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	L	135	LEU	N-CA	-5.12	1.39	1.46
6	M	48	THR	N-CA	-5.12	1.39	1.46
6	M	75	ARG	N-CA	-5.12	1.40	1.46
5	N	9	CYS	CA-C	-5.12	1.46	1.52
1	A	521	LEU	N-CA	-5.12	1.40	1.46
4	C	194	TYR	CA-C	-5.12	1.46	1.52
5	D	9	CYS	N-CA	-5.12	1.39	1.45
3	B	417	ILE	N-CA	-5.12	1.40	1.46
6	M	19	ARG	N-CA	-5.12	1.40	1.46
8	U	45	GLU	N-CA	-5.12	1.40	1.46
7	K	300	LYS	CA-C	-5.11	1.45	1.53
3	I	371	LEU	C-O	-5.11	1.18	1.24
7	G	70	PHE	N-CA	-5.11	1.40	1.46
8	L	105	LEU	N-CA	-5.11	1.39	1.46
3	I	117	CYS	N-CA	-5.11	1.40	1.46
7	G	227	PHE	N-CA	-5.11	1.40	1.46
7	G	440	CYS	CA-C	-5.11	1.46	1.52
8	S	145	ARG	N-CA	-5.11	1.39	1.46
7	Q	228	ALA	CA-C	-5.11	1.46	1.52
3	B	306	LYS	N-CA	-5.11	1.40	1.46
3	B	745	ALA	N-CA	-5.11	1.39	1.46
3	B	165	TYR	CA-C	-5.11	1.46	1.52
7	G	121	ARG	N-CA	-5.11	1.40	1.46
8	L	66	THR	N-CA	-5.11	1.39	1.46
1	H	552	ALA	N-CA	-5.11	1.40	1.46
3	B	371	LEU	C-O	-5.10	1.18	1.24
7	G	683	PRO	N-CA	5.10	1.52	1.46
8	Z	45	GLU	N-CA	-5.10	1.40	1.46
3	I	317	LEU	C-O	-5.10	1.18	1.24
1	H	626	ILE	CA-C	-5.10	1.46	1.52
3	B	260	PHE	CA-C	-5.10	1.46	1.52
7	G	48	LEU	CA-C	-5.10	1.46	1.52
7	K	306	ALA	N-CA	-5.10	1.40	1.46
4	C	397	ALA	N-CA	-5.10	1.40	1.46
4	C	644	ARG	N-CA	-5.10	1.40	1.46
6	P	96	ASP	CA-C	-5.10	1.46	1.52
5	D	79	ASP	N-CA	-5.10	1.40	1.46
8	L	30	TYR	N-CA	-5.10	1.39	1.46
4	J	530	VAL	N-CA	-5.09	1.39	1.46
4	C	361	ASN	N-CA	-5.09	1.38	1.45
1	A	65	LEU	CA-C	-5.09	1.46	1.52
4	C	144	TYR	CA-C	-5.09	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	F	79	ARG	CA-C	-5.09	1.45	1.52
7	G	658	HIS	CA-C	-5.09	1.46	1.52
6	R	154	PHE	N-CA	-5.09	1.39	1.46
6	T	75	ARG	N-CA	-5.09	1.40	1.46
4	C	457	LEU	CA-C	-5.09	1.46	1.52
7	Q	43	LYS	CA-C	-5.09	1.46	1.52
8	S	125	VAL	N-CA	-5.09	1.40	1.46
7	Q	766	LYS	CA-C	-5.09	1.46	1.52
4	C	621	VAL	N-CA	-5.09	1.40	1.46
5	D	162	LYS	N-CA	-5.09	1.40	1.46
7	G	175	LYS	C-N	-5.09	1.27	1.34
1	H	542	ILE	N-CA	-5.08	1.40	1.46
3	I	52	SER	CA-C	-5.08	1.46	1.52
4	J	616	GLU	N-CA	-5.08	1.40	1.46
1	A	110	SER	CA-C	-5.08	1.46	1.52
3	B	124	LEU	N-CA	-5.08	1.39	1.46
3	B	317	LEU	C-O	-5.08	1.18	1.24
7	K	228	ALA	CA-C	-5.08	1.46	1.52
3	I	745	ALA	N-CA	-5.08	1.39	1.46
7	Q	119	ASN	N-CA	-5.08	1.40	1.46
1	A	413	SER	N-CA	-5.08	1.40	1.46
4	C	689	CYS	CA-C	-5.08	1.46	1.52
3	I	375	LEU	N-CA	-5.08	1.40	1.46
5	N	162	LYS	N-CA	-5.08	1.40	1.46
1	A	682	LEU	N-CA	-5.08	1.40	1.46
6	R	103	ALA	N-CA	-5.08	1.40	1.46
5	N	27	THR	C-O	-5.08	1.17	1.24
4	C	780	VAL	N-CA	-5.08	1.40	1.46
6	R	97	ARG	N-CA	-5.08	1.39	1.46
4	J	544	ASN	N-CA	-5.08	1.39	1.45
8	S	105	LEU	N-CA	-5.08	1.39	1.46
3	B	319	ARG	N-CA	-5.08	1.40	1.46
1	H	476	ASP	CA-C	5.08	1.55	1.52
3	B	746	TYR	CA-C	-5.08	1.46	1.52
7	K	301	ALA	CA-C	-5.08	1.46	1.52
6	M	47	PRO	N-CA	-5.08	1.41	1.47
1	H	658	ILE	N-CA	-5.08	1.39	1.46
3	I	124	LEU	N-CA	-5.08	1.39	1.46
7	G	401	LEU	N-CA	-5.07	1.40	1.46
7	G	835	ARG	CA-C	-5.07	1.46	1.52
5	N	128	ALA	CA-C	-5.07	1.46	1.52
1	A	476	ASP	CA-C	5.07	1.54	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	325	ALA	N-CA	-5.07	1.39	1.46
4	J	51	LYS	CA-C	-5.07	1.46	1.52
8	S	30	TYR	N-CA	-5.07	1.40	1.46
4	C	646	GLU	CA-C	-5.07	1.46	1.52
5	D	27	THR	C-O	-5.07	1.17	1.24
7	K	119	ASN	N-CA	-5.07	1.40	1.46
7	Q	69	ALA	CA-C	-5.07	1.46	1.52
1	A	314	MET	C-N	5.07	1.40	1.33
4	J	38	SER	CA-C	-5.07	1.46	1.52
6	P	28	ALA	CA-C	-5.07	1.45	1.52
3	B	211	MET	N-CA	-5.07	1.40	1.46
3	B	535	THR	C-N	5.07	1.40	1.33
4	C	125	LEU	CA-C	-5.07	1.46	1.52
7	G	296	CYS	CA-C	-5.07	1.46	1.52
1	H	521	LEU	N-CA	-5.07	1.40	1.46
6	P	111	LEU	CA-C	-5.07	1.45	1.52
1	A	552	ALA	N-CA	-5.06	1.40	1.46
3	B	385	VAL	CA-C	-5.06	1.46	1.52
7	K	126	ARG	N-CA	-5.06	1.40	1.46
7	K	868	ILE	CA-C	-5.06	1.46	1.52
1	H	413	SER	N-CA	-5.06	1.40	1.46
3	B	295	ALA	CA-C	-5.06	1.46	1.52
4	C	501	THR	N-CA	-5.06	1.39	1.46
3	I	746	TYR	CA-C	-5.06	1.46	1.52
7	Q	255	ILE	N-CA	-5.06	1.40	1.46
4	C	334	GLU	C-N	5.06	1.40	1.33
7	G	868	ILE	CA-C	-5.06	1.46	1.52
3	I	295	ALA	CA-C	-5.06	1.46	1.52
7	Q	798	GLU	CA-C	-5.06	1.46	1.52
4	C	68	ARG	CA-C	-5.06	1.46	1.52
5	D	66	MET	CA-C	-5.06	1.46	1.52
7	G	156	SER	N-CA	-5.05	1.40	1.46
7	G	509	ILE	CA-C	-5.05	1.45	1.52
6	R	125	ALA	CA-C	-5.05	1.46	1.52
3	I	306	LYS	N-CA	-5.05	1.40	1.46
4	J	334	GLU	C-N	5.05	1.40	1.33
7	Q	287	PRO	CA-C	-5.05	1.45	1.52
6	T	130	LEU	CA-C	-5.05	1.47	1.52
3	I	319	ARG	N-CA	-5.05	1.40	1.46
1	A	508	LYS	CA-C	-5.05	1.46	1.52
3	B	265	TYR	N-CA	-5.05	1.40	1.46
7	G	348	LEU	CA-C	-5.05	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	R	113	GLU	CA-C	-5.05	1.46	1.52
4	J	242	PRO	N-CA	-5.05	1.40	1.47
4	J	644	ARG	N-CA	-5.05	1.40	1.46
4	J	689	CYS	CA-C	-5.05	1.46	1.52
6	P	118	ASN	CA-C	-5.05	1.47	1.53
7	G	285	LEU	N-CA	-5.05	1.40	1.46
7	K	658	HIS	CA-C	-5.05	1.46	1.52
6	M	130	LEU	CA-C	-5.05	1.47	1.52
1	H	682	LEU	N-CA	-5.05	1.40	1.46
3	I	385	VAL	CA-C	-5.05	1.46	1.52
4	C	38	SER	CA-C	-5.05	1.46	1.52
7	K	287	PRO	CA-C	-5.05	1.45	1.52
1	H	561	ILE	N-CA	-5.05	1.40	1.46
3	I	835	SER	N-CA	-5.05	1.39	1.45
4	J	314	ILE	N-CA	-5.05	1.40	1.46
4	J	738	LEU	CA-C	-5.05	1.46	1.52
5	N	9	CYS	N-CA	-5.05	1.39	1.45
4	J	780	VAL	N-CA	-5.04	1.40	1.46
4	C	137	VAL	CA-C	-5.04	1.46	1.52
3	I	845	ILE	N-CA	-5.04	1.40	1.46
4	J	137	VAL	CA-C	-5.04	1.46	1.52
4	J	397	ALA	N-CA	-5.04	1.40	1.46
7	Q	301	ALA	CA-C	-5.04	1.46	1.52
1	H	84	ARG	CA-C	-5.04	1.46	1.52
7	Q	126	ARG	N-CA	-5.04	1.40	1.46
4	J	125	LEU	CA-C	-5.04	1.46	1.52
4	C	626	GLU	N-CA	-5.04	1.40	1.46
7	K	798	GLU	CA-C	-5.04	1.46	1.52
8	L	109	VAL	CA-C	-5.04	1.45	1.52
3	I	300	TYR	N-CA	-5.04	1.40	1.46
3	I	434	ASP	C-N	-5.04	1.27	1.33
4	J	399	ASP	N-CA	-5.04	1.40	1.46
5	N	8	VAL	CA-C	-5.04	1.46	1.52
7	Q	144	MET	CA-C	-5.04	1.46	1.52
4	C	259	SER	N-CA	-5.04	1.39	1.46
4	C	314	ILE	N-CA	-5.04	1.40	1.46
3	B	104	THR	CA-C	-5.04	1.46	1.52
3	B	835	SER	N-CA	-5.04	1.39	1.45
6	R	85	THR	N-CA	-5.04	1.39	1.45
7	K	141	GLU	CA-C	-5.04	1.46	1.52
3	I	265	TYR	N-CA	-5.04	1.40	1.46
3	I	832	VAL	CA-C	-5.04	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	U	141	GLN	CA-C	-5.04	1.46	1.52
7	Q	141	GLU	CA-C	-5.04	1.46	1.52
1	A	149	LEU	CA-C	-5.03	1.46	1.52
6	R	30	LYS	CA-C	-5.03	1.46	1.52
1	H	508	LYS	CA-C	-5.03	1.46	1.52
7	G	798	GLU	CA-C	-5.03	1.46	1.52
8	L	145	ARG	N-CA	-5.03	1.39	1.46
7	Q	137	LEU	CA-C	-5.03	1.46	1.52
6	T	19	ARG	N-CA	-5.03	1.40	1.46
6	T	47	PRO	N-CA	-5.03	1.41	1.47
6	P	54	GLU	N-CA	-5.03	1.39	1.45
3	B	294	LYS	N-CA	-5.03	1.40	1.46
7	G	479	ARG	CA-C	-5.03	1.46	1.52
3	I	104	THR	CA-C	-5.03	1.46	1.52
4	C	51	LYS	CA-C	-5.03	1.46	1.52
7	K	766	LYS	CA-C	-5.03	1.46	1.52
5	N	66	MET	CA-C	-5.03	1.46	1.52
7	Q	306	ALA	N-CA	-5.03	1.40	1.46
8	S	37	SER	N-CA	-5.03	1.39	1.46
6	F	111	LEU	CA-C	-5.02	1.45	1.52
3	I	946	ALA	CA-C	-5.02	1.46	1.52
4	C	9	ARG	CA-C	-5.02	1.46	1.52
7	G	146	GLN	CA-C	-5.02	1.46	1.52
7	K	137	LEU	CA-C	-5.02	1.46	1.52
1	H	149	LEU	CA-C	-5.02	1.46	1.52
7	G	39	ILE	N-CA	-5.02	1.41	1.46
8	Z	141	GLN	CA-C	-5.02	1.46	1.52
3	I	308	SER	N-CA	-5.02	1.39	1.46
4	J	361	ASN	N-CA	-5.02	1.38	1.45
4	C	178	ASN	CA-C	-5.02	1.46	1.52
4	C	399	ASP	N-CA	-5.02	1.40	1.46
7	K	839	ASP	N-CA	-5.02	1.39	1.45
3	I	535	THR	C-N	5.02	1.40	1.33
4	C	544	ASN	N-CA	-5.02	1.39	1.45
1	H	314	MET	C-N	5.02	1.40	1.33
4	J	94	MET	CA-C	-5.01	1.46	1.52
1	A	84	ARG	CA-C	-5.01	1.46	1.52
1	H	679	GLU	C-O	-5.01	1.18	1.24
4	C	115	LEU	N-CA	-5.01	1.40	1.46
5	D	82	THR	CA-C	-5.01	1.46	1.52
4	J	360	HIS	N-CA	-5.01	1.39	1.45
4	C	738	LEU	CA-C	-5.01	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	128	ALA	CA-C	-5.01	1.46	1.52
4	J	9	ARG	CA-C	-5.01	1.46	1.52
7	G	104	ILE	N-CA	-5.01	1.40	1.46
1	H	74	LYS	N-CA	-5.01	1.39	1.46
4	C	633	GLN	N-CA	-5.01	1.40	1.46
3	I	211	MET	N-CA	-5.01	1.40	1.46
4	J	259	SER	N-CA	-5.01	1.39	1.46
3	B	852	ASP	CA-C	-5.00	1.46	1.52
7	G	307	ALA	N-CA	-5.00	1.40	1.46
8	L	53	HIS	CA-C	-5.00	1.46	1.52
5	N	82	THR	CA-C	-5.00	1.46	1.52
7	Q	668	THR	CA-C	-5.00	1.46	1.52
4	C	314	ILE	C-N	-5.00	1.27	1.33
4	C	360	HIS	N-CA	-5.00	1.39	1.45
1	H	624	SER	CA-C	-5.00	1.46	1.52
3	I	294	LYS	N-CA	-5.00	1.40	1.46
4	J	68	ARG	CA-C	-5.00	1.46	1.52
7	Q	293	GLN	CA-C	-5.00	1.46	1.52
1	A	67	VAL	CA-C	-5.00	1.46	1.52
4	C	506	THR	N-CA	-5.00	1.40	1.46
6	R	61	ILE	CA-C	-5.00	1.46	1.52
7	K	166	LEU	N-CA	-5.00	1.40	1.46
1	H	543	TYR	CA-C	-5.00	1.46	1.52

All (3797) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	693	VAL	CA-C-N	-22.65	91.53	119.84
7	G	693	VAL	C-N-CA	-22.65	91.53	119.84
1	H	586	ARG	CA-C-N	21.50	141.38	120.31
1	H	586	ARG	C-N-CA	21.50	141.38	120.31
7	G	277	LEU	CA-C-N	-19.07	96.01	119.84
7	G	277	LEU	C-N-CA	-19.07	96.01	119.84
3	I	933	GLY	CA-C-N	-19.00	96.09	119.84
3	I	933	GLY	C-N-CA	-19.00	96.09	119.84
1	A	586	ARG	CA-C-N	18.98	141.35	120.66
1	A	586	ARG	C-N-CA	18.98	141.35	120.66
3	B	933	GLY	CA-C-N	-18.94	96.16	119.84
3	B	933	GLY	C-N-CA	-18.94	96.16	119.84
7	Q	117	GLU	CA-C-N	18.11	146.01	120.29
7	Q	117	GLU	C-N-CA	18.11	146.01	120.29
7	K	117	GLU	CA-C-N	18.09	145.98	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	117	GLU	C-N-CA	18.09	145.98	120.29
3	I	326	HIS	N-CA-C	-16.44	85.09	108.76
3	B	326	HIS	N-CA-C	-16.43	85.09	108.76
7	K	225	SER	CA-C-N	16.06	139.91	119.84
7	K	225	SER	C-N-CA	16.06	139.91	119.84
7	Q	225	SER	CA-C-N	16.04	139.89	119.84
7	Q	225	SER	C-N-CA	16.04	139.89	119.84
3	I	841	ILE	N-CA-C	15.44	126.32	110.72
3	B	841	ILE	N-CA-C	15.42	126.30	110.72
1	H	338	ASP	N-CA-C	-15.38	91.40	111.24
1	A	338	ASP	N-CA-C	-15.36	91.42	111.24
7	G	804	ILE	N-CA-C	15.13	124.75	110.53
7	Q	804	ILE	N-CA-C	15.02	124.65	110.53
7	K	804	ILE	N-CA-C	14.99	124.62	110.53
7	Q	277	LEU	CA-C-N	-14.86	101.27	119.84
7	Q	277	LEU	C-N-CA	-14.86	101.27	119.84
7	K	277	LEU	CA-C-N	-14.85	101.27	119.84
7	K	277	LEU	C-N-CA	-14.85	101.27	119.84
1	A	595	THR	CA-C-O	14.84	130.22	119.68
3	I	325	GLU	CA-C-N	14.82	136.15	122.37
3	I	325	GLU	C-N-CA	14.82	136.15	122.37
1	H	595	THR	CA-C-O	14.81	130.20	119.68
3	B	325	GLU	CA-C-N	14.80	136.13	122.37
3	B	325	GLU	C-N-CA	14.80	136.13	122.37
1	H	214	HIS	CA-C-N	14.60	138.09	119.84
1	H	214	HIS	C-N-CA	14.60	138.09	119.84
1	A	214	HIS	CA-C-N	14.59	138.07	119.84
1	A	214	HIS	C-N-CA	14.59	138.07	119.84
3	I	760	VAL	N-CA-C	-14.47	87.85	108.11
3	B	760	VAL	N-CA-C	-14.47	87.85	108.11
1	H	229	VAL	N-CA-C	-14.43	87.91	108.11
1	A	229	VAL	N-CA-C	-14.42	87.92	108.11
1	A	227	ARG	N-CA-C	-14.27	95.81	111.07
1	H	227	ARG	N-CA-C	-14.27	95.80	111.07
7	G	665	CYS	N-CA-C	14.16	127.84	107.88
7	G	609	ARG	CA-C-N	14.15	139.25	120.28
7	G	609	ARG	C-N-CA	14.15	139.25	120.28
6	F	121	TRP	N-CA-C	14.15	130.06	109.69
6	P	121	TRP	N-CA-C	14.14	130.06	109.69
6	P	59	LYS	CA-C-N	14.11	142.36	122.46
6	P	59	LYS	C-N-CA	14.11	142.36	122.46
7	K	609	ARG	CA-C-N	14.10	139.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	609	ARG	C-N-CA	14.10	139.18	120.28
6	F	59	LYS	CA-C-N	14.10	142.33	122.46
6	F	59	LYS	C-N-CA	14.10	142.33	122.46
7	Q	609	ARG	CA-C-N	14.09	139.16	120.28
7	Q	609	ARG	C-N-CA	14.09	139.16	120.28
6	R	88	VAL	N-CA-C	14.08	126.09	108.06
1	H	630	GLN	N-CA-C	-14.02	96.66	114.04
1	A	630	GLN	N-CA-C	-13.99	96.70	114.04
1	A	797	PRO	CA-C-N	-13.93	102.43	119.84
1	A	797	PRO	C-N-CA	-13.93	102.43	119.84
1	H	797	PRO	CA-C-N	-13.89	102.47	119.84
1	H	797	PRO	C-N-CA	-13.89	102.47	119.84
7	G	178	VAL	N-CA-C	13.82	126.37	110.62
8	U	58	GLU	N-CA-C	-13.65	95.88	111.03
8	Z	58	GLU	N-CA-C	-13.61	95.92	111.03
4	C	416	LYS	N-CA-C	-13.43	87.02	108.90
4	J	416	LYS	N-CA-C	-13.42	87.03	108.90
1	A	736	ALA	N-CA-C	13.25	125.80	111.36
1	H	736	ALA	N-CA-C	13.23	125.78	111.36
7	Q	629	LEU	CA-C-N	13.21	138.41	120.44
7	Q	629	LEU	C-N-CA	13.21	138.41	120.44
7	K	629	LEU	CA-C-N	13.19	138.38	120.44
7	K	629	LEU	C-N-CA	13.19	138.38	120.44
7	G	629	LEU	CA-C-N	13.11	138.28	120.44
7	G	629	LEU	C-N-CA	13.11	138.28	120.44
1	H	768	ASP	CA-C-N	13.11	137.48	120.44
1	H	768	ASP	C-N-CA	13.11	137.48	120.44
1	A	768	ASP	CA-C-N	13.09	137.45	120.44
1	A	768	ASP	C-N-CA	13.09	137.45	120.44
3	B	414	ALA	CA-C-N	12.87	137.53	120.28
3	B	414	ALA	C-N-CA	12.87	137.53	120.28
3	I	414	ALA	CA-C-N	12.86	137.51	120.28
3	I	414	ALA	C-N-CA	12.86	137.51	120.28
3	B	940	GLY	N-CA-C	-12.79	90.53	111.38
3	I	940	GLY	N-CA-C	-12.78	90.55	111.38
6	R	159	CYS	N-CA-C	-12.69	90.64	108.54
3	I	926	ILE	N-CA-C	12.54	126.18	108.12
3	B	926	ILE	N-CA-C	12.54	126.18	108.12
7	Q	665	CYS	N-CA-C	12.48	127.64	108.42
7	K	665	CYS	N-CA-C	12.45	127.60	108.42
1	A	343	GLN	N-CA-C	-12.42	84.34	110.80
1	H	343	GLN	N-CA-C	-12.40	84.39	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	P	61	ILE	N-CA-C	-12.30	90.77	108.36
6	F	61	ILE	N-CA-C	-12.28	90.80	108.36
1	A	504	ALA	N-CA-C	-12.23	89.46	109.40
1	H	504	ALA	N-CA-C	-12.23	89.46	109.40
4	C	246	THR	CA-C-N	12.21	133.93	121.35
4	C	246	THR	C-N-CA	12.21	133.93	121.35
4	J	441	VAL	N-CA-C	-12.21	90.26	108.46
7	G	225	SER	CA-C-O	-12.21	111.35	119.29
8	S	58	GLU	N-CA-C	-12.21	97.48	111.03
4	C	441	VAL	N-CA-C	-12.21	90.27	108.46
3	I	257	ARG	N-CA-C	12.18	125.72	111.11
4	J	246	THR	CA-C-N	12.16	133.88	121.35
4	J	246	THR	C-N-CA	12.16	133.88	121.35
3	B	257	ARG	N-CA-C	12.16	125.70	111.11
8	L	58	GLU	N-CA-C	-12.15	97.54	111.03
7	G	459	LEU	CA-C-N	12.14	133.71	119.99
7	G	459	LEU	C-N-CA	12.14	133.71	119.99
3	I	759	LEU	N-CA-C	-12.08	89.21	108.90
1	H	242	VAL	N-CA-C	-12.07	93.29	106.21
3	B	759	LEU	N-CA-C	-12.06	89.23	108.90
1	A	242	VAL	N-CA-C	-12.05	93.31	106.21
4	J	559	ARG	N-CA-C	-12.04	91.20	109.14
4	C	559	ARG	N-CA-C	-12.03	91.22	109.14
3	I	145	ALA	N-CA-C	11.94	124.30	111.28
3	B	145	ALA	N-CA-C	11.91	124.27	111.28
7	K	247	ARG	N-CA-C	-11.87	96.92	111.40
7	Q	247	ARG	N-CA-C	-11.85	96.94	111.40
7	Q	240	LEU	CA-C-N	11.75	136.48	120.38
7	Q	240	LEU	C-N-CA	11.75	136.48	120.38
7	K	240	LEU	CA-C-N	11.74	136.46	120.38
7	K	240	LEU	C-N-CA	11.74	136.46	120.38
3	I	761	VAL	N-CA-C	-11.71	91.61	108.48
7	Q	24	LYS	N-CA-C	11.71	124.12	111.36
3	B	761	VAL	N-CA-C	-11.70	91.64	108.48
7	K	24	LYS	N-CA-C	11.66	124.07	111.36
7	G	96	SER	N-CA-C	11.64	135.59	110.80
7	G	205	LYS	N-CA-C	-11.55	98.66	111.14
5	N	19	ARG	CA-C-N	11.52	137.82	122.84
5	N	19	ARG	C-N-CA	11.52	137.82	122.84
5	D	61	MET	N-CA-C	-11.48	87.93	107.80
4	C	653	GLU	N-CA-C	-11.47	92.64	109.15
5	D	19	ARG	CA-C-N	11.46	137.75	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	19	ARG	C-N-CA	11.46	137.75	122.84
5	N	61	MET	N-CA-C	-11.45	87.98	107.80
4	J	653	GLU	N-CA-C	-11.44	92.67	109.15
7	G	95	MET	N-CA-C	11.40	126.44	112.54
1	A	339	ARG	N-CA-C	-11.39	92.10	109.41
1	H	547	ASN	N-CA-C	-11.38	99.75	112.72
7	K	829	LEU	N-CA-C	-11.37	89.87	108.41
1	A	547	ASN	N-CA-C	-11.36	99.77	112.72
1	H	339	ARG	N-CA-C	-11.36	92.14	109.41
1	A	554	THR	N-CA-C	11.35	127.10	108.26
7	Q	829	LEU	N-CA-C	-11.35	89.91	108.41
1	H	554	THR	N-CA-C	11.33	127.06	108.26
1	H	528	ILE	N-CA-C	-11.32	92.76	108.27
7	G	829	LEU	N-CA-C	-11.32	89.96	108.41
1	A	528	ILE	N-CA-C	-11.31	92.77	108.27
5	D	56	TYR	N-CA-C	-11.31	89.64	108.76
7	Q	131	ILE	N-CA-C	11.31	125.23	111.09
5	N	56	TYR	N-CA-C	-11.30	89.66	108.76
7	K	131	ILE	N-CA-C	11.28	125.19	111.09
5	N	14	LYS	CA-C-N	11.28	138.07	121.72
5	N	14	LYS	C-N-CA	11.28	138.07	121.72
5	D	14	LYS	CA-C-N	11.26	138.05	121.72
5	D	14	LYS	C-N-CA	11.26	138.05	121.72
4	C	113	PHE	N-CA-C	11.25	127.84	109.95
4	J	113	PHE	N-CA-C	11.22	127.79	109.95
5	D	36	PHE	CA-C-N	11.20	130.62	118.97
5	D	36	PHE	C-N-CA	11.20	130.62	118.97
5	N	36	PHE	CA-C-N	11.17	130.59	118.97
5	N	36	PHE	C-N-CA	11.17	130.59	118.97
7	G	117	GLU	N-CA-C	-11.13	90.81	108.63
1	A	207	GLY	N-CA-C	-11.10	101.41	111.95
3	B	749	VAL	N-CA-C	-11.07	91.39	107.77
8	S	14	LYS	N-CA-C	-11.04	97.93	111.40
7	G	141	GLU	N-CA-C	11.03	124.68	111.33
3	I	749	VAL	N-CA-C	-11.03	91.45	107.77
8	L	14	LYS	N-CA-C	-11.02	97.96	111.40
1	H	207	GLY	N-CA-C	-11.01	101.49	111.95
1	H	302	ASN	N-CA-C	-10.98	100.37	113.88
1	A	321	ARG	N-CA-C	-10.96	90.41	108.49
1	H	321	ARG	N-CA-C	-10.94	90.44	108.49
1	A	302	ASN	N-CA-C	-10.94	100.43	113.88
3	B	750	ASN	N-CA-C	-10.92	90.43	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	234	PHE	CA-C-N	10.92	130.40	119.92
3	B	234	PHE	C-N-CA	10.92	130.40	119.92
3	I	750	ASN	N-CA-C	-10.92	90.43	108.34
3	I	234	PHE	CA-C-N	10.92	130.40	119.92
3	I	234	PHE	C-N-CA	10.92	130.40	119.92
1	A	86	LEU	N-CA-C	10.89	122.72	111.07
3	I	905	PHE	CA-C-N	10.82	136.98	121.50
3	I	905	PHE	C-N-CA	10.82	136.98	121.50
5	D	118	ALA	N-CA-C	-10.82	90.89	108.52
5	N	118	ALA	N-CA-C	-10.80	90.91	108.52
7	G	693	VAL	N-CA-C	10.79	118.83	108.15
3	B	905	PHE	CA-C-N	10.79	136.92	121.50
3	B	905	PHE	C-N-CA	10.79	136.92	121.50
1	H	491	VAL	CA-C-N	10.78	142.12	121.54
1	H	491	VAL	C-N-CA	10.78	142.12	121.54
6	R	122	LEU	N-CA-C	-10.75	88.96	107.99
1	A	491	VAL	CA-C-N	10.74	142.06	121.54
1	A	491	VAL	C-N-CA	10.74	142.06	121.54
6	M	62	SER	CA-C-N	10.74	137.34	122.19
6	M	62	SER	C-N-CA	10.74	137.34	122.19
3	B	894	THR	O-C-N	10.73	129.36	121.85
6	T	62	SER	CA-C-N	10.73	137.32	122.19
6	T	62	SER	C-N-CA	10.73	137.32	122.19
1	H	802	MET	CA-C-N	10.72	133.24	119.84
1	H	802	MET	C-N-CA	10.72	133.24	119.84
7	K	120	TYR	CA-C-N	10.71	134.36	120.44
7	K	120	TYR	C-N-CA	10.71	134.36	120.44
3	I	894	THR	O-C-N	10.71	129.35	121.85
1	A	802	MET	CA-C-N	10.70	133.22	119.84
1	A	802	MET	C-N-CA	10.70	133.22	119.84
6	R	78	TRP	N-CA-C	-10.70	99.16	111.03
4	J	176	SER	N-CA-C	-10.69	98.55	108.07
7	Q	120	TYR	CA-C-N	10.69	134.34	120.44
7	Q	120	TYR	C-N-CA	10.69	134.34	120.44
4	C	176	SER	N-CA-C	-10.66	98.58	108.07
1	H	86	LEU	N-CA-C	10.65	122.64	111.14
3	I	256	GLU	N-CA-C	10.65	125.79	113.01
3	B	256	GLU	N-CA-C	10.63	125.77	113.01
7	G	815	ARG	N-CA-C	-10.61	97.41	111.74
1	H	656	GLY	N-CA-C	-10.61	99.62	115.32
1	A	656	GLY	N-CA-C	-10.59	99.64	115.32
7	Q	814	GLU	N-CA-C	-10.59	96.42	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	838	HIS	CA-C-N	10.59	137.56	120.94
7	Q	838	HIS	C-N-CA	10.59	137.56	120.94
7	K	814	GLU	N-CA-C	-10.57	96.44	111.56
7	K	838	HIS	CA-C-N	10.57	137.54	120.94
7	K	838	HIS	C-N-CA	10.57	137.54	120.94
7	G	838	HIS	CA-C-N	10.56	137.53	120.94
7	G	838	HIS	C-N-CA	10.56	137.53	120.94
3	I	444	GLN	N-CA-C	10.53	122.76	111.28
6	T	155	ILE	N-CA-C	-10.52	93.44	108.17
3	B	444	GLN	N-CA-C	10.51	122.74	111.28
7	G	535	LEU	CA-C-N	10.51	134.11	120.44
7	G	535	LEU	C-N-CA	10.51	134.11	120.44
7	G	435	GLY	CA-C-N	10.51	134.36	120.28
7	G	435	GLY	C-N-CA	10.51	134.36	120.28
7	G	207	ASP	N-CA-C	10.50	127.39	108.48
7	G	813	CYS	N-CA-C	10.50	122.10	108.24
6	M	155	ILE	N-CA-C	-10.49	93.48	108.17
7	K	152	VAL	N-CA-C	-10.47	98.03	107.56
7	Q	152	VAL	N-CA-C	-10.43	98.07	107.56
6	M	41	GLU	CA-C-N	10.38	140.65	121.97
6	M	41	GLU	C-N-CA	10.38	140.65	121.97
1	H	216	THR	N-CA-C	-10.36	100.63	113.38
1	A	216	THR	N-CA-C	-10.35	100.65	113.38
6	T	41	GLU	CA-C-N	10.35	140.60	121.97
6	T	41	GLU	C-N-CA	10.35	140.60	121.97
1	A	631	LYS	N-CA-C	-10.32	88.82	110.80
4	J	567	ILE	N-CA-C	-10.32	97.33	107.55
4	C	567	ILE	N-CA-C	-10.31	97.34	107.55
8	S	61	LEU	CA-C-N	-10.31	106.87	122.74
8	S	61	LEU	C-N-CA	-10.31	106.87	122.74
1	H	631	LYS	N-CA-C	-10.30	88.86	110.80
3	I	928	LYS	CA-C-N	10.29	132.70	119.84
3	I	928	LYS	C-N-CA	10.29	132.70	119.84
8	L	61	LEU	CA-C-N	-10.29	106.90	122.74
8	L	61	LEU	C-N-CA	-10.29	106.90	122.74
3	B	928	LYS	CA-C-N	10.28	132.69	119.84
3	B	928	LYS	C-N-CA	10.28	132.69	119.84
1	A	589	VAL	N-CA-C	-10.26	93.66	108.53
1	H	589	VAL	N-CA-C	-10.26	93.66	108.53
6	F	24	GLY	N-CA-C	-10.26	101.58	112.04
3	B	754	ILE	N-CA-C	-10.25	93.71	108.36
3	I	754	ILE	N-CA-C	-10.24	93.72	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	317	PHE	CA-C-N	10.23	137.76	122.93
1	A	317	PHE	C-N-CA	10.23	137.76	122.93
7	K	283	LYS	CA-C-N	10.22	133.98	120.28
7	K	283	LYS	C-N-CA	10.22	133.98	120.28
1	H	317	PHE	CA-C-N	10.22	137.76	122.93
1	H	317	PHE	C-N-CA	10.22	137.76	122.93
6	P	24	GLY	N-CA-C	-10.21	101.63	112.04
7	Q	283	LYS	CA-C-N	10.17	133.91	120.28
7	Q	283	LYS	C-N-CA	10.17	133.91	120.28
4	J	4	ARG	N-CA-C	-10.16	98.85	112.26
1	H	104	GLU	N-CA-C	-10.15	99.77	111.03
4	C	4	ARG	N-CA-C	-10.15	98.87	112.26
1	A	104	GLU	N-CA-C	-10.13	99.78	111.03
1	H	243	ASP	N-CA-C	-10.10	92.38	109.24
1	H	36	TRP	N-CA-C	-10.10	92.38	109.24
1	A	36	TRP	N-CA-C	-10.09	92.40	109.24
1	A	243	ASP	N-CA-C	-10.09	92.40	109.24
6	T	72	ASP	N-CA-C	10.07	123.19	111.11
6	M	72	ASP	N-CA-C	10.06	123.18	111.11
3	I	811	ASN	N-CA-C	-10.00	92.05	109.06
3	B	811	ASN	N-CA-C	-10.00	92.07	109.06
7	G	828	LEU	N-CA-C	-9.99	92.98	109.07
7	K	828	LEU	N-CA-C	-9.99	92.98	109.07
7	Q	828	LEU	N-CA-C	-9.97	93.02	109.07
6	R	30	LYS	CA-C-N	9.95	133.61	120.28
6	R	30	LYS	C-N-CA	9.95	133.61	120.28
6	T	63	PHE	N-CA-C	9.95	125.98	109.46
3	B	483	THR	N-CA-C	-9.94	99.52	112.24
4	J	221	CYS	N-CA-C	-9.93	91.21	108.20
4	C	221	CYS	N-CA-C	-9.93	91.22	108.20
6	M	63	PHE	N-CA-C	9.93	125.94	109.46
1	H	430	ASP	N-CA-C	-9.92	92.72	108.90
4	J	396	TRP	N-CA-C	-9.92	94.54	110.32
4	C	396	TRP	N-CA-C	-9.91	94.56	110.32
3	I	483	THR	N-CA-C	-9.91	99.55	112.24
4	C	379	THR	N-CA-C	-9.90	93.21	108.96
4	J	204	SER	CA-C-N	-9.90	115.35	122.18
4	J	204	SER	C-N-CA	-9.90	115.35	122.18
4	J	379	THR	N-CA-C	-9.90	93.22	108.96
1	A	59	PHE	CA-C-N	9.88	133.28	120.44
1	A	59	PHE	C-N-CA	9.88	133.28	120.44
1	A	430	ASP	N-CA-C	-9.88	92.80	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	255	SER	CA-C-N	9.87	140.72	121.18
3	I	255	SER	C-N-CA	9.87	140.72	121.18
7	Q	129	CYS	N-CA-C	9.86	123.26	111.82
1	A	272	SER	N-CA-C	9.86	125.42	109.85
1	H	272	SER	N-CA-C	9.86	125.42	109.85
3	B	255	SER	CA-C-N	9.85	140.69	121.18
3	B	255	SER	C-N-CA	9.85	140.69	121.18
4	C	204	SER	CA-C-N	-9.85	115.38	122.18
4	C	204	SER	C-N-CA	-9.85	115.38	122.18
7	K	129	CYS	N-CA-C	9.85	123.25	111.82
7	G	536	GLU	N-CA-C	-9.84	100.54	111.07
1	H	59	PHE	CA-C-N	9.84	133.23	120.44
1	H	59	PHE	C-N-CA	9.84	133.23	120.44
7	G	693	VAL	CA-C-O	-9.83	114.19	120.88
1	A	301	PRO	N-CA-C	-9.82	102.11	114.68
1	H	301	PRO	N-CA-C	-9.81	102.12	114.68
3	B	120	TYR	CA-C-N	9.77	133.38	120.28
3	B	120	TYR	C-N-CA	9.77	133.38	120.28
4	C	92	VAL	N-CA-C	9.77	119.72	110.53
3	I	369	GLU	CA-C-N	9.77	133.38	120.28
3	I	369	GLU	C-N-CA	9.77	133.38	120.28
3	B	369	GLU	CA-C-N	9.77	133.37	120.28
3	B	369	GLU	C-N-CA	9.77	133.37	120.28
4	C	151	ASN	N-CA-C	-9.76	94.97	109.42
3	I	120	TYR	CA-C-N	9.76	133.36	120.28
3	I	120	TYR	C-N-CA	9.76	133.36	120.28
4	J	269	TYR	N-CA-C	-9.75	98.13	111.87
4	J	92	VAL	N-CA-C	9.74	119.69	110.53
4	J	151	ASN	N-CA-C	-9.74	95.00	109.42
4	C	269	TYR	N-CA-C	-9.74	98.14	111.87
4	C	315	ILE	N-CA-C	-9.74	94.54	108.17
1	H	587	PRO	N-CA-C	9.70	126.31	111.57
4	J	315	ILE	N-CA-C	-9.69	94.60	108.17
7	G	498	PHE	N-CA-C	9.64	121.79	111.28
1	A	519	ASP	N-CA-C	-9.63	91.57	108.13
1	H	519	ASP	N-CA-C	-9.61	91.61	108.13
4	J	311	ASN	N-CA-C	-9.60	100.77	111.14
4	C	551	ILE	N-CA-C	-9.59	94.69	108.11
6	F	95	ASN	N-CA-C	-9.56	101.73	113.97
4	J	551	ILE	N-CA-C	-9.56	94.73	108.11
1	A	241	GLU	CA-C-N	9.55	130.63	121.65
1	A	241	GLU	C-N-CA	9.55	130.63	121.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	F	166	LEU	CA-C-N	9.54	134.81	120.31
6	F	166	LEU	C-N-CA	9.54	134.81	120.31
1	H	241	GLU	CA-C-N	9.54	130.62	121.65
1	H	241	GLU	C-N-CA	9.54	130.62	121.65
4	C	311	ASN	N-CA-C	-9.54	100.84	111.14
6	P	95	ASN	N-CA-C	-9.53	101.77	113.97
5	D	235	VAL	CA-C-N	9.51	132.81	120.44
5	D	235	VAL	C-N-CA	9.51	132.81	120.44
6	P	166	LEU	CA-C-N	9.51	134.76	120.31
6	P	166	LEU	C-N-CA	9.51	134.76	120.31
1	A	803	PRO	N-CA-C	9.50	132.05	112.47
1	H	803	PRO	N-CA-C	9.49	132.03	112.47
5	N	235	VAL	CA-C-N	9.49	132.78	120.44
5	N	235	VAL	C-N-CA	9.49	132.78	120.44
4	J	245	ILE	N-CA-C	-9.48	94.83	108.11
4	C	245	ILE	N-CA-C	-9.48	94.84	108.11
5	D	89	VAL	N-CA-C	9.47	119.44	110.53
6	P	97	ARG	N-CA-C	-9.47	90.62	110.80
6	F	97	ARG	N-CA-C	-9.47	90.63	110.80
1	H	337	LYS	N-CA-C	9.47	123.96	110.23
1	A	337	LYS	N-CA-C	9.46	123.95	110.23
7	G	274	ILE	N-CA-C	9.46	125.52	111.89
5	N	89	VAL	N-CA-C	9.43	119.39	110.53
4	C	554	ILE	N-CA-C	-9.39	101.70	110.53
6	T	130	LEU	N-CA-C	-9.37	97.85	109.65
6	M	130	LEU	N-CA-C	-9.37	97.85	109.65
4	J	554	ILE	N-CA-C	-9.37	101.73	110.53
4	J	808	GLU	N-CA-C	9.35	121.08	111.07
1	H	198	LYS	N-CA-C	-9.32	90.95	110.80
4	J	412	VAL	N-CA-C	9.31	121.18	108.89
1	A	198	LYS	N-CA-C	-9.31	90.97	110.80
3	I	414	ALA	O-C-N	9.31	131.77	122.09
7	G	201	TYR	N-CA-C	-9.30	100.83	110.97
8	Z	62	LEU	N-CA-C	-9.29	93.26	109.06
4	C	412	VAL	N-CA-C	9.29	121.16	108.89
4	C	808	GLU	N-CA-C	9.28	121.00	111.07
8	U	62	LEU	N-CA-C	-9.27	93.30	109.06
1	H	625	ILE	N-CA-C	-9.26	103.66	112.83
1	A	625	ILE	N-CA-C	-9.26	103.66	112.83
1	H	600	LYS	N-CA-C	-9.26	101.75	113.23
3	I	821	ASP	N-CA-C	9.26	124.40	108.76
1	A	496	TRP	N-CA-C	-9.25	95.23	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	496	TRP	N-CA-C	-9.25	95.24	109.85
6	T	53	VAL	N-CA-C	-9.24	94.81	108.12
1	H	429	LEU	N-CA-C	-9.24	95.29	109.24
1	A	429	LEU	N-CA-C	-9.24	95.29	109.24
1	A	600	LYS	N-CA-C	-9.23	101.78	113.23
1	H	108	ILE	N-CA-C	9.23	122.21	108.46
1	A	108	ILE	N-CA-C	9.22	122.20	108.46
3	B	821	ASP	N-CA-C	9.22	124.34	108.76
6	M	53	VAL	N-CA-C	-9.22	94.85	108.12
1	H	453	CYS	N-CA-C	-9.21	100.92	112.72
1	H	599	PHE	CA-C-O	-9.21	111.14	120.82
1	A	453	CYS	N-CA-C	-9.20	100.94	112.72
1	A	599	PHE	CA-C-O	-9.20	111.16	120.82
5	D	136	MET	N-CA-C	-9.17	91.26	110.80
5	N	136	MET	N-CA-C	-9.17	91.26	110.80
1	A	588	ARG	N-CA-C	9.14	123.40	109.23
3	B	216	ASP	CA-C-N	9.14	132.53	120.28
3	B	216	ASP	C-N-CA	9.14	132.53	120.28
1	H	588	ARG	N-CA-C	9.14	123.39	109.23
3	I	216	ASP	CA-C-N	9.12	132.50	120.28
3	I	216	ASP	C-N-CA	9.12	132.50	120.28
7	G	523	GLU	N-CA-C	-9.12	100.96	112.90
1	A	467	ARG	N-CA-C	-9.11	98.02	110.68
1	H	467	ARG	N-CA-C	-9.10	98.03	110.68
3	B	414	ALA	O-C-N	9.10	131.76	122.12
1	H	240	TRP	CA-C-N	9.09	138.90	121.54
1	H	240	TRP	C-N-CA	9.09	138.90	121.54
1	A	240	TRP	CA-C-N	9.08	138.88	121.54
1	A	240	TRP	C-N-CA	9.08	138.88	121.54
1	H	714	GLU	N-CA-C	9.08	120.79	111.07
4	J	85	ASN	N-CA-C	-9.08	94.39	109.46
1	A	714	GLU	N-CA-C	9.07	120.78	111.07
7	G	831	ALA	N-CA-C	9.07	123.29	109.23
7	K	831	ALA	N-CA-C	9.07	123.29	109.23
1	H	598	LYS	N-CA-C	-9.07	101.39	111.28
1	A	598	LYS	N-CA-C	-9.07	101.40	111.28
7	Q	736	ASP	N-CA-C	-9.06	94.90	109.40
7	G	736	ASP	N-CA-C	-9.05	94.92	109.40
7	K	736	ASP	N-CA-C	-9.04	94.93	109.40
6	P	106	VAL	CA-C-N	9.04	134.06	120.31
6	P	106	VAL	C-N-CA	9.04	134.06	120.31
7	Q	120	TYR	CA-C-O	9.04	130.01	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	831	ALA	N-CA-C	9.04	123.25	109.23
7	K	120	TYR	CA-C-O	9.04	130.00	120.42
4	C	85	ASN	N-CA-C	-9.03	94.46	109.46
4	J	546	TYR	N-CA-C	-9.03	93.80	108.52
6	F	106	VAL	CA-C-N	9.03	134.03	120.31
6	F	106	VAL	C-N-CA	9.03	134.03	120.31
4	C	546	TYR	N-CA-C	-9.03	93.81	108.52
8	S	88	LEU	N-CA-C	9.03	121.12	111.28
3	I	67	GLY	N-CA-C	-9.02	91.80	113.18
3	B	67	GLY	N-CA-C	-9.02	91.80	113.18
6	R	61	ILE	N-CA-C	-9.01	95.48	108.36
3	I	35	PRO	N-CA-C	9.00	121.68	110.70
8	L	88	LEU	N-CA-C	8.99	121.08	111.28
1	A	779	ASP	N-CA-C	-8.97	89.98	109.81
7	G	749	ASP	N-CA-C	-8.97	95.43	109.07
3	B	35	PRO	N-CA-C	8.96	121.63	110.70
1	H	511	ILE	N-CA-C	-8.96	94.55	108.44
1	A	606	ARG	CA-C-N	8.96	133.45	120.82
1	A	606	ARG	C-N-CA	8.96	133.45	120.82
7	K	749	ASP	N-CA-C	-8.96	95.45	109.07
7	Q	749	ASP	N-CA-C	-8.96	95.46	109.07
1	A	511	ILE	N-CA-C	-8.95	94.56	108.44
1	H	779	ASP	N-CA-C	-8.95	90.03	109.81
4	J	170	TRP	CA-C-N	8.95	136.85	122.81
4	J	170	TRP	C-N-CA	8.95	136.85	122.81
7	G	836	GLY	N-CA-C	-8.94	102.83	115.43
6	P	161	THR	N-CA-C	-8.94	100.70	113.21
4	C	170	TRP	CA-C-N	8.93	136.84	122.81
4	C	170	TRP	C-N-CA	8.93	136.84	122.81
1	H	606	ARG	CA-C-N	8.93	133.42	120.82
1	H	606	ARG	C-N-CA	8.93	133.42	120.82
1	A	67	VAL	N-CA-C	-8.93	95.62	108.48
6	F	161	THR	N-CA-C	-8.93	100.71	113.21
3	I	331	ARG	CA-C-N	8.93	133.12	120.53
3	I	331	ARG	C-N-CA	8.93	133.12	120.53
3	B	331	ARG	CA-C-N	8.92	133.11	120.53
3	B	331	ARG	C-N-CA	8.92	133.11	120.53
3	B	748	HIS	N-CA-C	-8.92	95.40	109.50
4	J	722	ASP	N-CA-C	8.92	121.97	111.71
6	P	79	ARG	N-CA-C	8.92	121.97	111.71
3	I	748	HIS	N-CA-C	-8.91	95.42	109.50
3	B	269	GLN	N-CA-C	-8.91	91.82	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	722	ASP	N-CA-C	8.90	121.95	111.71
1	H	67	VAL	N-CA-C	-8.90	95.67	108.48
7	K	836	GLY	N-CA-C	-8.89	102.89	115.43
7	G	462	GLU	N-CA-C	8.89	120.74	111.14
1	A	507	ALA	N-CA-C	-8.89	95.56	109.07
3	I	269	GLN	N-CA-C	-8.89	91.86	110.80
7	Q	836	GLY	N-CA-C	-8.89	102.89	115.43
1	A	740	GLY	N-CA-C	-8.88	92.13	113.18
7	G	731	THR	N-CA-C	-8.88	94.77	109.07
7	Q	731	THR	N-CA-C	-8.88	94.77	109.07
6	F	165	GLY	CA-C-N	8.88	131.98	120.44
6	F	165	GLY	C-N-CA	8.88	131.98	120.44
1	H	740	GLY	N-CA-C	-8.88	92.15	113.18
6	P	165	GLY	CA-C-N	8.88	131.98	120.44
6	P	165	GLY	C-N-CA	8.88	131.98	120.44
1	H	507	ALA	N-CA-C	-8.87	95.59	109.07
6	M	79	ARG	N-CA-C	-8.87	101.58	111.07
7	K	731	THR	N-CA-C	-8.86	94.80	109.07
6	F	79	ARG	N-CA-C	8.86	121.90	111.71
1	A	522	CYS	N-CA-C	-8.85	95.67	108.60
7	K	244	ASP	N-CA-C	-8.85	91.96	110.80
6	T	79	ARG	N-CA-C	-8.84	101.61	111.07
6	R	166	LEU	N-CA-C	8.83	120.59	110.97
7	Q	244	ASP	N-CA-C	-8.82	92.00	110.80
3	B	49	ASP	N-CA-C	-8.82	92.01	110.80
1	H	522	CYS	N-CA-C	-8.82	95.73	108.60
7	G	134	SER	N-CA-C	8.81	120.88	111.28
3	I	49	ASP	N-CA-C	-8.80	92.06	110.80
1	A	249	TYR	N-CA-C	-8.79	97.45	110.46
3	I	843	ASP	N-CA-C	8.79	120.48	111.07
3	B	843	ASP	N-CA-C	8.78	120.47	111.07
7	K	853	THR	N-CA-C	-8.78	95.63	109.50
1	H	249	TYR	N-CA-C	-8.77	97.47	110.46
7	Q	853	THR	N-CA-C	-8.77	95.64	109.50
3	B	840	ASP	CA-C-N	8.75	132.85	120.42
3	B	840	ASP	C-N-CA	8.75	132.85	120.42
6	M	91	VAL	CA-C-N	8.75	135.11	122.94
6	M	91	VAL	C-N-CA	8.75	135.11	122.94
3	I	840	ASP	CA-C-N	8.74	132.83	120.42
3	I	840	ASP	C-N-CA	8.74	132.83	120.42
3	B	792	LEU	N-CA-C	-8.73	93.50	109.56
6	R	161	THR	N-CA-C	-8.73	101.85	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	853	THR	N-CA-C	-8.72	95.73	109.50
6	T	91	VAL	CA-C-N	8.71	135.05	122.94
6	T	91	VAL	C-N-CA	8.71	135.05	122.94
1	A	587	PRO	N-CA-C	8.71	126.31	111.77
3	B	871	ASN	N-CA-C	-8.70	92.27	110.80
3	I	792	LEU	N-CA-C	-8.70	93.55	109.56
3	I	871	ASN	N-CA-C	-8.70	92.28	110.80
1	H	77	VAL	N-CA-C	-8.68	95.61	108.12
6	R	99	ARG	N-CA-C	-8.67	102.41	113.16
1	H	406	ASP	N-CA-C	-8.66	99.57	112.04
8	Z	129	VAL	N-CA-C	-8.65	94.68	108.95
4	C	202	LEU	N-CA-C	-8.65	96.11	109.52
1	A	77	VAL	N-CA-C	-8.65	95.67	108.12
8	U	129	VAL	N-CA-C	-8.64	94.70	108.95
4	J	202	LEU	N-CA-C	-8.63	96.14	109.52
8	L	60	ALA	CA-C-N	8.63	135.16	122.99
8	L	60	ALA	C-N-CA	8.63	135.16	122.99
1	A	406	ASP	N-CA-C	-8.62	99.62	112.04
8	S	60	ALA	CA-C-N	8.62	135.15	122.99
8	S	60	ALA	C-N-CA	8.62	135.15	122.99
6	R	71	GLN	N-CA-C	-8.61	94.85	108.63
3	B	804	VAL	N-CA-C	-8.61	95.56	108.99
7	K	609	ARG	CA-C-O	8.61	129.67	120.55
7	Q	640	THR	N-CA-C	-8.60	94.88	109.24
7	G	640	THR	N-CA-C	-8.60	94.88	109.24
3	B	893	LEU	N-CA-C	8.59	120.42	111.14
7	K	640	THR	N-CA-C	-8.59	94.90	109.24
3	I	893	LEU	N-CA-C	8.59	120.41	111.14
6	R	150	ASN	CA-C-N	8.58	142.75	121.80
6	R	150	ASN	C-N-CA	8.58	142.75	121.80
3	I	804	VAL	N-CA-C	-8.58	95.60	108.99
1	A	647	THR	CA-C-N	8.56	131.75	120.28
1	A	647	THR	C-N-CA	8.56	131.75	120.28
1	H	647	THR	CA-C-N	8.56	131.75	120.28
1	H	647	THR	C-N-CA	8.56	131.75	120.28
1	H	236	GLU	N-CA-C	-8.54	92.61	110.80
1	H	509	HIS	N-CA-C	-8.54	95.48	109.40
1	A	509	HIS	N-CA-C	-8.54	95.48	109.40
7	G	609	ARG	CA-C-O	8.53	129.59	120.55
1	H	371	ASN	N-CA-C	-8.53	90.00	108.93
7	Q	609	ARG	CA-C-O	8.52	129.58	120.55
1	A	236	GLU	N-CA-C	-8.52	92.66	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	371	ASN	N-CA-C	-8.51	90.03	108.93
1	A	105	TYR	CA-C-N	-8.49	109.23	119.84
1	A	105	TYR	C-N-CA	-8.49	109.23	119.84
7	K	762	ASP	N-CA-C	-8.49	102.70	113.23
4	C	682	GLN	CA-C-N	8.48	131.65	120.28
4	C	682	GLN	C-N-CA	8.48	131.65	120.28
3	I	837	ILE	N-CA-C	-8.48	91.69	109.34
3	B	837	ILE	N-CA-C	-8.47	91.71	109.34
1	H	515	ASN	N-CA-C	-8.47	97.22	110.36
3	I	850	CYS	N-CA-C	8.47	121.47	108.42
3	I	740	PRO	N-CA-C	-8.47	95.02	112.47
4	J	682	GLN	CA-C-N	8.46	131.62	120.28
4	J	682	GLN	C-N-CA	8.46	131.62	120.28
7	G	858	ALA	N-CA-C	-8.46	95.11	109.24
1	H	105	TYR	CA-C-N	-8.46	109.27	119.84
1	H	105	TYR	C-N-CA	-8.46	109.27	119.84
1	A	515	ASN	N-CA-C	-8.46	97.25	110.36
7	K	858	ALA	N-CA-C	-8.45	95.12	109.24
7	Q	858	ALA	N-CA-C	-8.46	95.12	109.24
3	B	850	CYS	N-CA-C	8.45	121.44	108.42
7	Q	762	ASP	N-CA-C	-8.45	102.75	113.23
6	R	96	ASP	N-CA-C	-8.45	94.96	108.73
3	B	740	PRO	N-CA-C	-8.44	95.09	112.47
1	H	132	THR	N-CA-C	-8.43	96.22	109.72
7	G	150	ASP	CA-C-N	8.43	137.65	121.54
7	G	150	ASP	C-N-CA	8.43	137.65	121.54
1	A	132	THR	N-CA-C	-8.43	96.23	109.72
4	C	262	ARG	N-CA-C	-8.43	96.55	109.95
7	G	762	ASP	N-CA-C	-8.41	102.80	113.23
4	J	262	ARG	N-CA-C	-8.41	96.58	109.95
3	B	800	ILE	N-CA-C	-8.38	95.97	108.46
5	D	131	ARG	CA-C-N	8.38	131.85	120.38
5	D	131	ARG	C-N-CA	8.38	131.85	120.38
7	G	197	LEU	N-CA-C	8.38	120.41	111.28
7	G	368	MET	N-CA-C	8.38	120.41	111.28
3	B	103	THR	N-CA-C	-8.37	104.10	112.97
6	R	130	LEU	CA-C-N	8.36	130.30	119.84
6	R	130	LEU	C-N-CA	8.36	130.30	119.84
3	I	103	THR	N-CA-C	-8.37	104.10	112.97
4	C	807	VAL	N-CA-C	8.35	119.22	111.45
5	N	131	ARG	CA-C-N	8.35	131.82	120.38
5	N	131	ARG	C-N-CA	8.35	131.82	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	U	29	LYS	N-CA-C	-8.35	93.91	108.69
4	J	446	GLY	N-CA-C	-8.34	98.53	110.96
8	Z	29	LYS	N-CA-C	-8.34	93.93	108.69
4	C	110	THR	N-CA-C	-8.33	100.87	112.45
4	C	446	GLY	N-CA-C	-8.33	98.56	110.96
6	R	42	VAL	CA-C-N	8.32	136.95	121.97
6	R	42	VAL	C-N-CA	8.32	136.95	121.97
3	I	554	ARG	CA-C-N	8.32	128.95	120.38
3	I	554	ARG	C-N-CA	8.32	128.95	120.38
4	J	807	VAL	N-CA-C	8.32	119.19	111.45
3	I	800	ILE	N-CA-C	-8.31	96.07	108.46
6	F	159	CYS	N-CA-C	-8.31	93.10	110.80
6	P	159	CYS	N-CA-C	-8.31	93.10	110.80
4	J	110	THR	N-CA-C	-8.31	100.91	112.45
5	D	50	GLU	N-CA-C	-8.30	94.73	108.76
5	N	50	GLU	N-CA-C	-8.30	94.73	108.76
3	B	554	ARG	CA-C-N	8.29	128.91	120.38
3	B	554	ARG	C-N-CA	8.29	128.91	120.38
7	G	797	LEU	CA-C-N	8.28	131.38	120.28
7	G	797	LEU	C-N-CA	8.28	131.38	120.28
8	Z	16	ILE	N-CA-C	-8.28	96.19	108.12
4	C	155	ASN	CA-C-N	8.28	137.35	121.54
4	C	155	ASN	C-N-CA	8.28	137.35	121.54
1	A	87	PHE	N-CA-C	-8.28	95.68	108.76
8	L	48	ILE	N-CA-C	8.28	118.31	110.53
4	J	155	ASN	CA-C-N	8.27	137.34	121.54
4	J	155	ASN	C-N-CA	8.27	137.34	121.54
7	K	797	LEU	CA-C-N	8.27	131.36	120.28
7	K	797	LEU	C-N-CA	8.27	131.36	120.28
8	L	35	TYR	N-CA-C	-8.27	97.63	109.62
8	U	11	TYR	N-CA-C	-8.27	93.19	110.80
6	R	106	VAL	N-CA-C	8.27	118.36	110.42
8	Z	11	TYR	N-CA-C	-8.27	93.19	110.80
8	U	16	ILE	N-CA-C	-8.26	96.22	108.12
4	C	492	SER	N-CA-C	8.26	120.36	111.36
7	Q	797	LEU	CA-C-N	8.26	131.34	120.28
7	Q	797	LEU	C-N-CA	8.26	131.34	120.28
8	S	35	TYR	N-CA-C	-8.26	97.65	109.62
4	J	492	SER	N-CA-C	8.25	120.35	111.36
4	J	233	SER	N-CA-C	-8.24	102.38	111.36
4	J	442	ARG	N-CA-C	-8.24	95.80	109.07
4	J	793	GLU	CA-C-N	8.24	131.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	793	GLU	C-N-CA	8.24	131.33	120.28
4	C	793	GLU	CA-C-N	8.24	131.32	120.28
4	C	793	GLU	C-N-CA	8.24	131.32	120.28
1	H	387	GLU	N-CA-C	-8.24	102.24	111.14
1	A	457	PHE	N-CA-C	-8.24	93.26	110.80
6	R	58	TYR	N-CA-C	-8.23	94.59	108.26
1	H	457	PHE	N-CA-C	-8.23	93.27	110.80
7	Q	242	GLU	N-CA-C	-8.23	103.26	113.38
8	S	48	ILE	N-CA-C	8.23	118.27	110.53
1	H	87	PHE	N-CA-C	-8.23	95.76	108.76
4	C	233	SER	N-CA-C	-8.23	102.39	111.36
4	C	442	ARG	N-CA-C	-8.23	95.82	109.07
3	I	446	PHE	N-CA-C	-8.21	103.40	113.50
7	K	667	ASN	N-CA-C	-8.21	93.32	110.80
7	Q	667	ASN	N-CA-C	-8.21	93.32	110.80
7	G	667	ASN	N-CA-C	-8.21	93.32	110.80
7	K	645	GLU	N-CA-C	-8.20	102.28	111.71
3	B	446	PHE	N-CA-C	-8.20	103.42	113.50
7	Q	645	GLU	N-CA-C	-8.19	102.29	111.71
3	I	744	GLU	N-CA-C	-8.19	96.56	109.50
7	Q	74	THR	N-CA-C	8.19	120.21	111.28
7	K	242	GLU	N-CA-C	-8.19	103.31	113.38
1	A	387	GLU	N-CA-C	-8.19	102.30	111.14
3	B	744	GLU	N-CA-C	-8.18	96.58	109.50
6	R	144	GLY	N-CA-C	-8.18	93.79	113.18
7	K	74	THR	N-CA-C	8.18	120.19	111.28
1	H	436	LEU	N-CA-C	-8.17	96.96	109.95
1	A	409	GLU	N-CA-C	-8.16	102.35	112.88
1	A	436	LEU	N-CA-C	-8.16	96.98	109.95
6	T	100	ILE	N-CA-C	8.16	118.20	110.53
4	C	327	LEU	N-CA-C	-8.15	96.19	108.99
7	K	831	ALA	CA-C-N	8.15	133.84	121.04
7	K	831	ALA	C-N-CA	8.15	133.84	121.04
7	Q	695	ALA	N-CA-C	-8.15	95.29	108.41
7	K	695	ALA	N-CA-C	-8.15	95.29	108.41
1	H	392	ASP	N-CA-C	-8.15	94.99	108.76
1	H	409	GLU	N-CA-C	-8.15	102.37	112.88
7	Q	693	VAL	CA-C-N	8.14	130.01	119.84
7	Q	693	VAL	C-N-CA	8.14	130.01	119.84
4	J	327	LEU	N-CA-C	-8.13	96.22	108.99
1	H	329	HIS	N-CA-C	-8.13	96.62	109.23
1	A	392	ASP	N-CA-C	-8.13	95.02	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	215	ILE	N-CA-C	-8.13	102.89	110.53
7	G	831	ALA	CA-C-N	8.13	133.81	121.04
7	G	831	ALA	C-N-CA	8.13	133.81	121.04
6	M	100	ILE	N-CA-C	8.12	118.17	110.53
7	Q	831	ALA	CA-C-N	8.12	133.79	121.04
7	Q	831	ALA	C-N-CA	8.12	133.79	121.04
1	H	664	ALA	CA-C-N	8.12	131.16	120.28
1	H	664	ALA	C-N-CA	8.12	131.16	120.28
7	G	298	SER	CA-C-N	8.12	129.99	119.84
7	G	298	SER	C-N-CA	8.12	129.99	119.84
1	A	493	TYR	CA-C-N	8.12	133.57	123.10
1	A	493	TYR	C-N-CA	8.12	133.57	123.10
8	S	30	TYR	N-CA-C	-8.12	94.32	108.20
4	J	106	ALA	N-CA-C	-8.12	96.68	109.50
8	Z	22	ASP	N-CA-C	-8.11	103.47	112.72
1	A	664	ALA	CA-C-N	8.11	131.15	120.28
1	A	664	ALA	C-N-CA	8.11	131.15	120.28
4	C	106	ALA	N-CA-C	-8.11	96.69	109.50
4	J	522	GLU	CA-C-N	8.11	133.66	123.12
4	J	522	GLU	C-N-CA	8.11	133.66	123.12
3	B	795	HIS	CA-C-N	8.11	136.42	122.64
3	B	795	HIS	C-N-CA	8.11	136.42	122.64
1	A	329	HIS	N-CA-C	-8.10	96.67	109.23
3	I	795	HIS	CA-C-N	8.10	136.42	122.64
3	I	795	HIS	C-N-CA	8.10	136.42	122.64
8	U	22	ASP	N-CA-C	-8.10	103.48	112.72
8	L	30	TYR	N-CA-C	-8.10	94.35	108.20
1	A	596	GLU	N-CA-C	8.10	121.02	111.71
7	Q	96	SER	N-CA-C	8.09	128.04	110.80
7	K	845	ARG	N-CA-C	-8.08	95.34	108.52
1	H	596	GLU	N-CA-C	8.08	121.00	111.71
7	K	693	VAL	CA-C-N	8.08	129.94	119.84
7	K	693	VAL	C-N-CA	8.08	129.94	119.84
4	C	522	GLU	CA-C-N	8.08	133.62	123.12
4	C	522	GLU	C-N-CA	8.08	133.62	123.12
7	Q	849	LEU	N-CA-C	-8.07	93.61	110.80
8	Z	25	ARG	N-CA-C	-8.07	94.41	108.69
1	H	493	TYR	CA-C-N	8.06	133.50	123.10
1	H	493	TYR	C-N-CA	8.06	133.50	123.10
7	K	96	SER	N-CA-C	8.05	127.96	110.80
7	G	485	GLU	N-CA-C	-8.05	102.46	111.07
3	I	829	ARG	N-CA-C	-8.05	104.06	114.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	U	25	ARG	N-CA-C	-8.05	94.44	108.69
3	B	829	ARG	N-CA-C	-8.05	104.06	114.04
1	A	636	GLU	N-CA-C	-8.05	102.49	111.82
7	K	849	LEU	N-CA-C	-8.05	93.66	110.80
7	Q	845	ARG	N-CA-C	-8.05	95.40	108.52
7	G	845	ARG	N-CA-C	-8.04	95.42	108.52
7	G	510	LEU	N-CA-C	-8.03	102.48	111.07
7	G	849	LEU	N-CA-C	-8.03	93.70	110.80
7	Q	206	ASN	N-CA-C	-8.03	93.86	107.99
4	J	530	VAL	N-CA-C	-8.02	95.46	106.85
7	Q	817	ASP	CA-C-N	8.02	132.10	120.71
7	Q	817	ASP	C-N-CA	8.02	132.10	120.71
7	K	206	ASN	N-CA-C	-8.01	93.89	107.99
1	H	636	GLU	N-CA-C	-8.01	102.53	111.82
1	H	767	LEU	CA-C-N	8.01	132.48	120.31
1	H	767	LEU	C-N-CA	8.01	132.48	120.31
6	T	154	PHE	N-CA-C	-8.01	96.10	108.76
6	M	154	PHE	N-CA-C	-8.01	96.11	108.76
1	H	413	SER	N-CA-C	-8.01	97.57	108.38
1	A	655	CYS	N-CA-C	-8.00	101.85	111.69
7	G	484	HIS	N-CA-C	-8.00	93.75	110.80
4	C	530	VAL	N-CA-C	-8.00	95.49	106.85
1	H	655	CYS	N-CA-C	-8.00	101.85	111.69
1	A	413	SER	N-CA-C	-8.00	97.58	108.38
7	G	189	ASN	CA-C-N	8.00	130.80	120.56
7	G	189	ASN	C-N-CA	8.00	130.80	120.56
7	G	817	ASP	CA-C-N	8.00	132.07	120.71
7	G	817	ASP	C-N-CA	8.00	132.07	120.71
1	H	532	SER	CA-C-N	7.99	132.61	121.26
1	H	532	SER	C-N-CA	7.99	132.61	121.26
1	A	532	SER	CA-C-N	7.99	132.61	121.26
1	A	532	SER	C-N-CA	7.99	132.61	121.26
3	B	822	VAL	N-CA-C	-7.99	96.93	108.11
7	K	682	GLU	CA-C-N	7.99	130.58	120.51
7	K	682	GLU	C-N-CA	7.99	130.58	120.51
7	K	817	ASP	CA-C-N	7.99	132.05	120.71
7	K	817	ASP	C-N-CA	7.99	132.05	120.71
3	B	385	VAL	CA-C-N	7.99	136.79	121.54
3	B	385	VAL	C-N-CA	7.99	136.79	121.54
4	J	549	GLY	N-CA-C	-7.98	104.54	114.92
7	Q	682	GLU	CA-C-N	7.98	130.57	120.51
7	Q	682	GLU	C-N-CA	7.98	130.57	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	385	VAL	CA-C-N	7.98	136.78	121.54
3	I	385	VAL	C-N-CA	7.98	136.78	121.54
7	G	682	GLU	CA-C-N	7.98	130.56	120.51
7	G	682	GLU	C-N-CA	7.98	130.56	120.51
1	H	622	GLY	N-CA-C	-7.98	94.28	113.18
1	A	622	GLY	N-CA-C	-7.97	94.28	113.18
1	A	767	LEU	CA-C-N	7.97	132.43	120.31
1	A	767	LEU	C-N-CA	7.97	132.43	120.31
4	C	549	GLY	N-CA-C	-7.97	104.56	114.92
3	I	822	VAL	N-CA-C	-7.96	96.97	108.11
7	G	120	TYR	CA-C-N	7.96	130.79	120.44
7	G	120	TYR	C-N-CA	7.96	130.79	120.44
6	R	30	LYS	CA-C-O	7.96	128.98	120.55
8	Z	30	TYR	N-CA-C	-7.95	94.60	108.20
4	C	517	LEU	N-CA-C	7.95	121.09	111.40
8	U	30	TYR	N-CA-C	-7.94	94.62	108.20
4	J	517	LEU	N-CA-C	7.94	121.08	111.40
6	T	149	ARG	N-CA-C	-7.92	93.93	110.80
4	J	348	MET	N-CA-C	-7.92	97.70	108.86
4	J	546	TYR	O-C-N	7.92	132.61	123.27
3	I	816	GLY	N-CA-C	-7.91	97.50	110.95
4	J	178	ASN	N-CA-C	-7.91	102.74	111.36
4	C	348	MET	N-CA-C	-7.90	97.72	108.86
3	B	816	GLY	N-CA-C	-7.90	97.52	110.95
4	C	254	ARG	N-CA-C	-7.90	97.02	109.50
6	M	149	ARG	N-CA-C	-7.90	93.98	110.80
1	A	553	VAL	CA-C-N	7.89	134.07	122.39
1	A	553	VAL	C-N-CA	7.89	134.07	122.39
1	H	543	TYR	N-CA-C	-7.89	97.33	109.24
1	H	553	VAL	CA-C-N	7.89	134.07	122.39
1	H	553	VAL	C-N-CA	7.89	134.07	122.39
3	B	908	ALA	CA-C-N	-7.88	112.12	123.00
3	B	908	ALA	C-N-CA	-7.88	112.12	123.00
4	J	254	ARG	N-CA-C	-7.87	97.06	109.50
1	H	55	ARG	CA-C-N	-7.87	115.55	121.61
1	H	55	ARG	C-N-CA	-7.87	115.55	121.61
4	J	103	ARG	N-CA-C	7.87	121.00	111.40
1	A	73	TYR	N-CA-C	-7.87	94.05	110.80
4	C	546	TYR	O-C-N	7.86	132.55	123.27
3	I	908	ALA	CA-C-N	-7.86	112.15	123.00
3	I	908	ALA	C-N-CA	-7.86	112.15	123.00
1	H	73	TYR	N-CA-C	-7.86	94.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	178	ASN	N-CA-C	-7.86	102.80	111.36
1	A	543	TYR	N-CA-C	-7.85	97.38	109.24
4	C	103	ARG	N-CA-C	7.84	120.97	111.40
1	A	50	HIS	CA-C-N	7.83	131.12	120.54
1	A	50	HIS	C-N-CA	7.83	131.12	120.54
4	C	839	ALA	N-CA-C	7.82	119.44	111.07
1	A	55	ARG	CA-C-N	-7.82	115.59	121.61
1	A	55	ARG	C-N-CA	-7.82	115.59	121.61
7	G	253	ASP	CA-C-N	7.80	130.58	120.44
7	G	253	ASP	C-N-CA	7.80	130.58	120.44
8	Z	56	ASP	N-CA-C	-7.80	97.31	108.07
1	H	50	HIS	CA-C-N	7.80	131.07	120.54
1	H	50	HIS	C-N-CA	7.80	131.07	120.54
7	G	178	VAL	CA-C-O	-7.80	112.94	121.05
1	A	149	LEU	N-CA-C	-7.80	98.06	110.14
7	G	506	LEU	N-CA-C	7.79	127.03	109.81
1	H	149	LEU	N-CA-C	-7.79	98.06	110.14
3	B	390	ASP	N-CA-C	-7.79	102.83	113.18
8	U	56	ASP	N-CA-C	-7.78	97.33	108.07
8	Z	85	GLU	CA-C-N	7.78	132.90	121.31
8	Z	85	GLU	C-N-CA	7.78	132.90	121.31
4	J	839	ALA	N-CA-C	7.78	119.39	111.07
3	I	878	ASN	N-CA-C	-7.77	99.00	111.04
1	A	97	ARG	N-CA-C	7.77	121.25	111.69
3	I	390	ASP	N-CA-C	-7.77	102.85	113.18
6	T	59	LYS	N-CA-C	-7.76	101.99	113.40
4	C	175	SER	CA-C-N	7.76	133.31	122.06
4	C	175	SER	C-N-CA	7.76	133.31	122.06
3	B	928	LYS	N-CA-C	7.76	126.95	109.81
7	K	215	ILE	N-CA-C	-7.76	103.24	110.53
1	H	97	ARG	N-CA-C	7.76	121.23	111.69
3	I	928	LYS	N-CA-C	7.76	126.95	109.81
8	U	85	GLU	CA-C-N	7.76	132.87	121.31
8	U	85	GLU	C-N-CA	7.76	132.87	121.31
1	A	797	PRO	N-CA-C	7.75	120.16	110.70
1	H	797	PRO	N-CA-C	7.74	120.14	110.70
3	I	550	LYS	N-CA-C	-7.74	103.68	113.43
3	B	878	ASN	N-CA-C	-7.73	99.05	111.04
6	M	59	LYS	N-CA-C	-7.73	102.04	113.40
3	I	758	VAL	N-CA-C	-7.73	96.29	108.81
1	H	737	LEU	N-CA-C	7.72	119.78	111.36
7	Q	215	ILE	N-CA-C	-7.72	103.27	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	550	LYS	N-CA-C	-7.72	103.70	113.43
3	B	370	GLU	N-CA-C	-7.72	102.86	111.28
4	C	316	TRP	N-CA-C	-7.72	98.00	109.81
3	B	758	VAL	N-CA-C	-7.71	96.32	108.81
4	J	175	SER	CA-C-N	7.71	133.24	122.06
4	J	175	SER	C-N-CA	7.71	133.24	122.06
4	J	538	SER	N-CA-C	-7.71	97.57	109.52
5	D	266	ALA	CA-C-N	-7.71	112.44	120.38
5	D	266	ALA	C-N-CA	-7.71	112.44	120.38
3	I	370	GLU	N-CA-C	-7.71	102.88	111.28
8	Z	86	ASN	CA-C-N	7.70	130.60	120.28
8	Z	86	ASN	C-N-CA	7.70	130.60	120.28
7	K	63	THR	N-CA-C	7.70	119.31	111.07
1	A	737	LEU	N-CA-C	7.70	119.75	111.36
4	C	27	GLU	N-CA-C	-7.70	92.80	109.81
8	U	86	ASN	CA-C-N	7.69	130.59	120.28
8	U	86	ASN	C-N-CA	7.69	130.59	120.28
4	J	27	GLU	N-CA-C	-7.69	92.81	109.81
5	N	147	VAL	N-CA-C	7.69	117.81	110.42
8	S	111	LYS	N-CA-C	-7.69	102.90	111.28
4	C	538	SER	N-CA-C	-7.69	97.60	109.52
1	A	562	ARG	N-CA-C	-7.68	97.38	108.60
4	J	316	TRP	N-CA-C	-7.68	98.06	109.81
4	J	569	LYS	CA-C-N	7.68	133.54	120.72
4	J	569	LYS	C-N-CA	7.68	133.54	120.72
3	B	536	TYR	N-CA-C	-7.67	102.86	111.07
3	I	536	TYR	N-CA-C	-7.67	102.86	111.07
5	D	147	VAL	N-CA-C	7.67	117.78	110.42
1	H	562	ARG	N-CA-C	-7.67	97.40	108.60
8	L	111	LYS	N-CA-C	-7.67	102.92	111.28
7	G	129	CYS	N-CA-C	7.67	120.53	111.71
1	H	78	TRP	N-CA-C	-7.67	96.03	109.06
1	A	78	TRP	N-CA-C	-7.66	96.04	109.06
7	K	104	ILE	CA-C-O	7.66	128.91	120.95
6	R	41	GLU	CA-C-N	7.66	135.75	121.97
6	R	41	GLU	C-N-CA	7.66	135.75	121.97
4	J	574	TYR	N-CA-C	-7.65	96.93	109.40
4	C	569	LYS	CA-C-N	7.65	133.49	120.72
4	C	569	LYS	C-N-CA	7.65	133.49	120.72
6	F	96	ASP	N-CA-C	-7.65	97.11	109.96
6	P	96	ASP	N-CA-C	-7.64	97.12	109.96
4	C	574	TYR	N-CA-C	-7.64	96.95	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	772	PHE	CA-C-O	-7.64	112.83	120.70
6	F	30	LYS	N-CA-C	-7.63	102.97	111.28
7	Q	63	THR	N-CA-C	7.62	119.23	111.07
7	Q	772	PHE	CA-C-O	-7.62	112.85	120.70
7	K	772	PHE	CA-C-O	-7.62	112.85	120.70
7	G	218	PHE	N-CA-C	-7.60	102.94	111.07
4	J	237	PHE	N-CA-C	-7.60	96.84	109.46
6	T	169	GLY	N-CA-C	-7.60	103.68	112.50
4	C	237	PHE	N-CA-C	-7.60	96.85	109.46
7	Q	104	ILE	CA-C-O	7.60	128.85	120.95
1	A	487	LYS	CA-C-N	7.59	135.64	121.97
1	A	487	LYS	C-N-CA	7.59	135.64	121.97
1	H	221	VAL	N-CA-C	-7.59	97.15	108.46
6	P	30	LYS	N-CA-C	-7.59	103.01	111.28
7	G	419	ASP	N-CA-C	7.59	119.19	111.07
7	Q	777	ASP	CA-C-N	7.58	130.44	120.28
7	Q	777	ASP	C-N-CA	7.58	130.44	120.28
1	H	200	VAL	N-CA-C	-7.58	97.52	108.36
7	K	777	ASP	CA-C-N	7.58	130.43	120.28
7	K	777	ASP	C-N-CA	7.58	130.43	120.28
4	J	472	ASP	N-CA-C	-7.57	96.17	108.52
5	N	77	LEU	CA-C-N	7.57	130.28	120.44
5	N	77	LEU	C-N-CA	7.57	130.28	120.44
1	A	221	VAL	N-CA-C	-7.57	97.18	108.46
6	M	169	GLY	N-CA-C	-7.57	103.72	112.50
7	G	673	THR	N-CA-C	-7.57	96.19	109.06
4	J	8	LYS	N-CA-C	-7.57	97.50	109.23
7	G	777	ASP	CA-C-N	7.57	130.42	120.28
7	G	777	ASP	C-N-CA	7.57	130.42	120.28
5	D	56	TYR	CA-C-N	-7.56	112.62	123.06
5	D	56	TYR	C-N-CA	-7.56	112.62	123.06
1	H	617	ASN	N-CA-C	7.56	121.94	112.03
3	I	927	GLU	N-CA-C	7.56	123.76	111.37
7	K	673	THR	N-CA-C	-7.56	96.22	109.06
1	H	602	ALA	CA-C-N	7.56	130.41	120.28
1	H	602	ALA	C-N-CA	7.56	130.41	120.28
1	H	487	LYS	CA-C-N	7.55	135.57	121.97
1	H	487	LYS	C-N-CA	7.55	135.57	121.97
1	A	617	ASN	N-CA-C	7.55	121.92	112.03
4	C	472	ASP	N-CA-C	-7.55	96.21	108.52
7	Q	673	THR	N-CA-C	-7.55	96.22	109.06
4	C	8	LYS	N-CA-C	-7.55	97.53	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	24	MET	CA-C-N	7.55	135.96	121.54
5	D	24	MET	C-N-CA	7.55	135.96	121.54
5	D	77	LEU	CA-C-N	7.55	130.25	120.44
5	D	77	LEU	C-N-CA	7.55	130.25	120.44
6	T	69	GLY	N-CA-C	-7.54	95.31	113.18
1	A	602	ALA	CA-C-N	7.54	130.38	120.28
1	A	602	ALA	C-N-CA	7.54	130.38	120.28
6	T	156	GLN	CA-C-N	7.54	131.50	120.95
6	T	156	GLN	C-N-CA	7.54	131.50	120.95
4	C	424	PHE	N-CA-C	-7.54	94.75	110.80
5	N	24	MET	CA-C-N	7.54	135.93	121.54
5	N	24	MET	C-N-CA	7.54	135.93	121.54
8	S	13	VAL	N-CA-C	-7.53	96.70	108.23
1	A	557	ASP	N-CA-C	7.53	122.09	110.42
3	I	782	LYS	N-CA-C	-7.53	97.17	108.99
3	B	927	GLU	N-CA-C	7.53	123.72	111.37
4	J	594	TYR	N-CA-C	-7.53	103.01	111.07
5	N	56	TYR	CA-C-N	-7.53	112.67	123.06
5	N	56	TYR	C-N-CA	-7.53	112.67	123.06
1	A	200	VAL	N-CA-C	-7.53	97.59	108.36
3	I	414	ALA	CA-C-O	-7.53	112.84	120.90
3	B	782	LYS	N-CA-C	-7.53	97.17	108.99
4	J	424	PHE	N-CA-C	-7.53	94.77	110.80
1	H	557	ASP	N-CA-C	7.52	122.08	110.42
4	C	594	TYR	N-CA-C	-7.52	103.02	111.07
7	G	39	ILE	N-CA-C	-7.52	97.07	107.75
8	L	13	VAL	N-CA-C	-7.52	96.72	108.23
6	M	69	GLY	N-CA-C	-7.52	95.36	113.18
6	M	156	GLN	CA-C-N	7.51	131.47	120.95
6	M	156	GLN	C-N-CA	7.51	131.47	120.95
4	J	58	LEU	N-CA-C	-7.51	99.92	110.29
3	B	48	GLY	N-CA-C	-7.50	95.39	113.18
7	G	498	PHE	CA-C-N	7.50	128.12	119.94
7	G	498	PHE	C-N-CA	7.50	128.12	119.94
1	H	540	VAL	CA-C-N	-7.50	112.55	123.05
1	H	540	VAL	C-N-CA	-7.50	112.55	123.05
4	C	368	VAL	N-CA-C	-7.50	97.61	108.11
7	G	54	LEU	CA-C-N	7.50	131.07	120.42
7	G	54	LEU	C-N-CA	7.50	131.07	120.42
7	G	433	GLU	CA-C-N	7.50	130.19	120.44
7	G	433	GLU	C-N-CA	7.50	130.19	120.44
3	I	48	GLY	N-CA-C	-7.50	95.42	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	245	CYS	N-CA-C	-7.49	97.03	109.24
4	J	174	SER	N-CA-C	-7.49	94.84	110.80
1	A	324	PRO	CA-C-N	7.49	135.84	121.54
1	A	324	PRO	C-N-CA	7.49	135.84	121.54
4	C	7	ILE	N-CA-C	-7.49	97.24	108.17
3	I	504	VAL	N-CA-C	7.49	124.91	109.34
7	Q	132	THR	N-CA-C	7.49	121.47	110.17
8	U	69	TYR	N-CA-C	-7.48	97.70	109.07
3	B	504	VAL	N-CA-C	7.48	124.89	109.34
4	C	58	LEU	N-CA-C	-7.48	99.97	110.29
7	Q	80	ASN	N-CA-C	-7.48	94.88	110.80
4	C	174	SER	N-CA-C	-7.47	94.88	110.80
1	A	540	VAL	CA-C-N	-7.47	112.59	123.05
1	A	540	VAL	C-N-CA	-7.47	112.59	123.05
4	C	456	GLU	CA-C-N	-7.47	112.48	122.42
4	C	456	GLU	C-N-CA	-7.47	112.48	122.42
8	L	18	ILE	O-C-N	7.47	130.95	123.18
8	Z	69	TYR	N-CA-C	-7.47	97.72	109.07
7	K	80	ASN	N-CA-C	-7.47	94.89	110.80
1	H	325	ALA	N-CA-C	7.47	126.71	110.80
7	K	132	THR	N-CA-C	7.47	121.45	110.17
1	A	245	CYS	N-CA-C	-7.46	97.07	109.24
1	A	325	ALA	N-CA-C	7.46	126.70	110.80
1	H	324	PRO	CA-C-N	7.46	135.80	121.54
1	H	324	PRO	C-N-CA	7.46	135.80	121.54
6	P	35	TYR	CA-C-N	7.46	130.14	120.44
6	P	35	TYR	C-N-CA	7.46	130.14	120.44
5	N	29	ILE	N-CA-C	-7.46	93.82	109.34
4	J	7	ILE	N-CA-C	-7.46	97.28	108.17
6	F	35	TYR	CA-C-N	7.46	130.13	120.44
6	F	35	TYR	C-N-CA	7.46	130.13	120.44
5	D	29	ILE	N-CA-C	-7.45	93.84	109.34
4	J	456	GLU	CA-C-N	-7.45	112.51	122.42
4	J	456	GLU	C-N-CA	-7.45	112.51	122.42
4	J	368	VAL	N-CA-C	-7.45	97.69	108.11
8	S	18	ILE	O-C-N	7.45	130.92	123.18
3	B	410	PRO	N-CA-C	-7.44	97.14	112.47
1	H	437	ILE	N-CA-C	-7.44	97.58	108.89
1	A	437	ILE	N-CA-C	-7.44	97.58	108.89
4	J	78	ASP	N-CA-C	-7.44	103.93	113.16
5	D	76	ILE	N-CA-C	7.42	117.55	110.42
7	K	37	THR	CA-C-N	7.42	129.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	37	THR	C-N-CA	7.42	129.12	119.84
7	G	414	LYS	CA-C-N	7.42	130.09	120.44
7	G	414	LYS	C-N-CA	7.42	130.09	120.44
3	I	410	PRO	N-CA-C	-7.42	97.18	112.47
7	Q	616	GLN	CA-C-N	7.41	130.21	120.28
7	Q	616	GLN	C-N-CA	7.41	130.21	120.28
3	B	851	THR	CA-C-N	7.41	130.21	120.28
3	B	851	THR	C-N-CA	7.41	130.21	120.28
7	G	683	PRO	N-CA-C	7.41	125.64	112.01
4	J	407	GLU	N-CA-C	-7.40	98.55	110.32
4	C	78	ASP	N-CA-C	-7.40	103.98	113.16
4	J	290	TYR	N-CA-C	-7.40	98.16	109.41
7	G	319	PRO	CA-C-N	7.40	130.20	120.28
7	G	319	PRO	C-N-CA	7.40	130.20	120.28
4	J	88	THR	N-CA-C	-7.40	95.04	110.80
1	A	423	ARG	CA-C-N	7.40	135.67	121.54
1	A	423	ARG	C-N-CA	7.40	135.67	121.54
4	C	88	THR	N-CA-C	-7.40	95.04	110.80
4	J	683	PHE	N-CA-C	7.40	119.34	111.28
7	Q	37	THR	CA-C-N	7.40	129.09	119.84
7	Q	37	THR	C-N-CA	7.40	129.09	119.84
4	C	526	THR	N-CA-C	-7.39	97.94	108.96
7	K	616	GLN	CA-C-N	7.39	130.19	120.28
7	K	616	GLN	C-N-CA	7.39	130.19	120.28
4	C	290	TYR	N-CA-C	-7.39	98.17	109.41
7	G	525	ARG	CA-C-N	7.39	130.19	120.28
7	G	525	ARG	C-N-CA	7.39	130.19	120.28
4	C	407	GLU	N-CA-C	-7.39	98.57	110.32
6	R	151	ARG	N-CA-C	7.39	126.14	109.81
4	J	526	THR	N-CA-C	-7.39	97.95	108.96
7	G	800	ALA	CA-C-N	7.38	130.57	120.46
7	G	800	ALA	C-N-CA	7.38	130.57	120.46
7	G	616	GLN	CA-C-N	7.38	130.17	120.28
7	G	616	GLN	C-N-CA	7.38	130.17	120.28
7	K	683	PRO	N-CA-C	7.38	125.59	112.01
1	H	423	ARG	CA-C-N	7.38	135.63	121.54
1	H	423	ARG	C-N-CA	7.38	135.63	121.54
3	I	833	VAL	N-CA-C	-7.38	97.78	108.11
1	H	280	LYS	N-CA-C	-7.37	103.25	114.16
3	I	851	THR	CA-C-N	7.37	130.16	120.28
3	I	851	THR	C-N-CA	7.37	130.16	120.28
4	C	683	PHE	N-CA-C	7.37	119.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	L	102	SER	CA-C-N	7.37	130.15	120.28
8	L	102	SER	C-N-CA	7.37	130.15	120.28
7	G	494	ALA	CA-C-O	7.36	128.35	120.55
3	B	833	VAL	N-CA-C	-7.36	97.81	108.11
5	N	76	ILE	N-CA-C	7.36	117.48	110.42
4	C	314	ILE	N-CA-C	-7.35	97.25	107.99
6	R	146	HIS	N-CA-C	-7.35	104.29	113.18
1	A	280	LYS	N-CA-C	-7.35	103.28	114.16
7	K	800	ALA	CA-C-N	7.35	130.53	120.46
7	K	800	ALA	C-N-CA	7.35	130.53	120.46
6	M	148	ILE	CA-C-N	7.35	135.57	121.54
6	M	148	ILE	C-N-CA	7.35	135.57	121.54
7	Q	683	PRO	N-CA-C	7.35	125.53	112.01
1	A	426	PHE	N-CA-C	-7.35	99.03	110.42
4	J	218	ASN	N-CA-C	-7.34	102.44	111.40
8	S	102	SER	CA-C-N	7.34	130.12	120.28
8	S	102	SER	C-N-CA	7.34	130.12	120.28
4	J	314	ILE	N-CA-C	-7.34	97.28	107.99
4	J	545	TYR	N-CA-C	-7.33	97.87	109.23
1	H	386	LEU	N-CA-C	-7.33	98.74	108.19
1	H	426	PHE	N-CA-C	-7.33	99.07	110.42
4	J	661	ALA	N-CA-C	-7.33	103.23	111.07
1	A	105	TYR	N-CA-C	-7.32	93.51	109.11
6	T	148	ILE	CA-C-N	7.32	135.53	121.54
6	T	148	ILE	C-N-CA	7.32	135.53	121.54
1	H	105	TYR	N-CA-C	-7.32	93.53	109.11
1	A	155	LEU	N-CA-C	-7.31	104.38	112.72
4	C	575	LEU	N-CA-C	-7.31	98.30	109.85
4	C	726	ASN	N-CA-C	7.31	119.25	111.28
1	H	188	ASP	CA-C-N	7.31	133.22	120.87
1	H	188	ASP	C-N-CA	7.31	133.22	120.87
4	C	218	ASN	N-CA-C	-7.31	102.48	111.40
7	G	300	LYS	N-CA-C	-7.31	95.23	110.80
7	Q	800	ALA	CA-C-N	7.31	130.47	120.46
7	Q	800	ALA	C-N-CA	7.31	130.47	120.46
1	A	188	ASP	CA-C-N	7.30	133.21	120.87
1	A	188	ASP	C-N-CA	7.30	133.21	120.87
1	H	155	LEU	N-CA-C	-7.30	104.40	112.72
1	H	332	MET	CA-C-N	7.30	132.89	122.09
1	H	332	MET	C-N-CA	7.30	132.89	122.09
4	J	575	LEU	N-CA-C	-7.30	98.32	109.85
4	J	726	ASN	N-CA-C	7.30	119.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	807	ALA	N-CA-C	-7.29	103.55	114.64
4	C	545	TYR	N-CA-C	-7.29	97.92	109.23
4	J	36	ASN	N-CA-C	-7.29	101.54	112.04
3	I	807	ALA	N-CA-C	-7.29	103.57	114.64
1	A	386	LEU	N-CA-C	-7.28	98.80	108.19
4	C	36	ASN	N-CA-C	-7.28	101.56	112.04
1	A	332	MET	CA-C-N	7.28	132.86	122.09
1	A	332	MET	C-N-CA	7.28	132.86	122.09
4	C	661	ALA	N-CA-C	-7.28	103.28	111.07
1	A	89	LEU	N-CA-C	-7.27	97.57	108.99
1	H	636	GLU	CA-C-N	7.27	130.75	120.42
1	H	636	GLU	C-N-CA	7.27	130.75	120.42
1	H	89	LEU	N-CA-C	-7.27	97.58	108.99
4	J	469	PHE	N-CA-C	-7.26	97.11	109.24
4	C	469	PHE	N-CA-C	-7.26	97.11	109.24
4	C	244	ILE	N-CA-C	-7.26	97.65	108.46
1	H	516	ARG	CA-C-N	7.25	135.40	121.54
1	H	516	ARG	C-N-CA	7.25	135.40	121.54
4	J	630	PHE	N-CA-C	-7.25	99.48	109.71
1	A	393	LEU	N-CA-C	-7.25	97.92	109.59
7	G	796	THR	CA-C-N	7.25	130.58	120.29
7	G	796	THR	C-N-CA	7.25	130.58	120.29
7	K	844	SER	N-CA-C	-7.25	96.46	108.34
6	M	159	CYS	N-CA-C	-7.25	97.59	109.40
4	J	244	ILE	N-CA-C	-7.24	97.67	108.46
7	G	529	THR	CA-C-N	7.24	130.57	120.29
7	G	529	THR	C-N-CA	7.24	130.57	120.29
7	G	844	SER	N-CA-C	-7.24	96.47	108.34
8	S	127	GLU	N-CA-C	7.24	119.25	111.36
4	C	630	PHE	N-CA-C	-7.24	99.51	109.71
4	J	397	ALA	N-CA-C	-7.24	97.45	108.67
1	H	393	LEU	N-CA-C	-7.23	97.95	109.59
6	T	159	CYS	N-CA-C	-7.23	97.62	109.40
7	K	796	THR	CA-C-N	7.23	130.55	120.29
7	K	796	THR	C-N-CA	7.23	130.55	120.29
3	B	414	ALA	CA-C-O	-7.22	112.83	120.63
7	G	107	SER	CA-C-N	7.22	129.96	120.28
7	G	107	SER	C-N-CA	7.22	129.96	120.28
7	Q	844	SER	N-CA-C	-7.22	96.49	108.34
4	J	774	ARG	N-CA-C	-7.22	103.41	111.28
7	Q	796	THR	CA-C-N	7.22	130.55	120.29
7	Q	796	THR	C-N-CA	7.22	130.55	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	56	CYS	N-CA-C	-7.22	97.70	107.88
5	D	98	GLU	N-CA-C	-7.22	95.42	110.80
6	M	26	ASP	N-CA-C	-7.22	100.32	110.50
1	H	548	HIS	N-CA-C	-7.22	98.09	109.50
4	C	774	ARG	N-CA-C	-7.22	103.41	111.28
7	Q	263	HIS	CA-C-N	7.22	129.95	120.28
7	Q	263	HIS	C-N-CA	7.22	129.95	120.28
4	J	651	LEU	N-CA-C	7.22	119.23	111.36
5	N	98	GLU	N-CA-C	-7.22	95.43	110.80
1	A	636	GLU	CA-C-N	7.21	130.67	120.42
1	A	636	GLU	C-N-CA	7.21	130.67	120.42
7	G	838	HIS	CA-C-O	7.21	128.81	120.80
7	G	851	THR	N-CA-C	-7.21	101.22	110.53
1	A	516	ARG	CA-C-N	7.21	135.31	121.54
1	A	516	ARG	C-N-CA	7.21	135.31	121.54
4	C	651	LEU	N-CA-C	7.21	119.22	111.36
7	K	851	THR	N-CA-C	-7.21	101.23	110.53
8	L	127	GLU	N-CA-C	7.21	119.22	111.36
4	J	56	CYS	N-CA-C	-7.20	97.72	107.88
4	C	397	ALA	N-CA-C	-7.20	97.51	108.67
7	K	263	HIS	CA-C-N	7.20	129.93	120.28
7	K	263	HIS	C-N-CA	7.20	129.93	120.28
7	Q	851	THR	N-CA-C	-7.20	101.24	110.53
1	A	548	HIS	N-CA-C	-7.20	98.13	109.50
6	R	93	ASP	N-CA-C	7.19	119.99	108.41
6	T	26	ASP	N-CA-C	-7.19	100.36	110.50
7	K	859	ARG	N-CA-C	-7.19	98.09	109.23
3	I	821	ASP	CA-C-N	7.18	132.54	123.14
3	I	821	ASP	C-N-CA	7.18	132.54	123.14
4	J	507	GLU	N-CA-C	-7.17	103.54	111.36
5	D	383	SER	CA-C-N	-7.17	113.52	122.84
5	D	383	SER	C-N-CA	-7.17	113.52	122.84
7	G	80	ASN	N-CA-C	-7.17	103.85	112.59
7	G	431	SER	N-CA-C	-7.16	102.98	112.72
7	Q	859	ARG	N-CA-C	-7.15	98.14	109.23
7	Q	177	TRP	N-CA-C	7.15	121.70	113.19
6	T	64	THR	N-CA-C	7.15	120.39	108.73
6	R	25	LEU	N-CA-C	7.15	119.79	110.43
1	A	570	VAL	O-C-N	-7.14	114.83	122.83
7	K	177	TRP	N-CA-C	7.14	121.69	113.19
1	A	395	THR	CA-C-N	7.13	124.73	120.24
1	A	395	THR	C-N-CA	7.13	124.73	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	507	GLU	N-CA-C	-7.13	103.59	111.36
1	H	395	THR	CA-C-N	7.13	124.73	120.24
1	H	395	THR	C-N-CA	7.13	124.73	120.24
7	G	704	GLY	N-CA-C	-7.13	97.29	110.97
3	B	821	ASP	CA-C-N	7.12	132.47	123.14
3	B	821	ASP	C-N-CA	7.12	132.47	123.14
5	N	233	LYS	CA-C-N	7.12	129.70	120.44
5	N	233	LYS	C-N-CA	7.12	129.70	120.44
7	G	859	ARG	N-CA-C	-7.12	98.20	109.23
7	Q	704	GLY	N-CA-C	-7.12	97.31	110.97
5	D	233	LYS	CA-C-N	7.11	129.69	120.44
5	D	233	LYS	C-N-CA	7.11	129.69	120.44
6	M	64	THR	N-CA-C	7.11	120.32	108.73
3	I	249	VAL	N-CA-C	7.11	117.87	110.62
3	B	249	VAL	N-CA-C	7.11	117.87	110.62
4	J	293	GLY	N-CA-C	-7.11	100.69	111.42
7	G	242	GLU	N-CA-C	-7.11	104.76	113.50
4	C	693	ALA	CA-C-N	7.10	132.22	122.07
4	C	693	ALA	C-N-CA	7.10	132.22	122.07
1	H	570	VAL	O-C-N	-7.10	114.88	122.83
7	Q	768	MET	N-CA-C	-7.10	98.28	109.50
7	K	704	GLY	N-CA-C	-7.10	97.34	110.97
1	H	568	ILE	N-CA-C	-7.10	97.44	108.44
7	G	670	ASN	N-CA-C	-7.09	104.60	113.18
4	J	693	ALA	CA-C-N	7.09	132.22	122.07
4	J	693	ALA	C-N-CA	7.09	132.22	122.07
1	A	724	GLU	N-CA-C	-7.09	103.48	111.07
7	Q	670	ASN	N-CA-C	-7.09	104.60	113.18
4	C	686	ALA	CA-C-N	7.09	129.78	120.28
4	C	686	ALA	C-N-CA	7.09	129.78	120.28
1	H	766	GLY	N-CA-C	-7.09	96.38	113.18
7	K	768	MET	N-CA-C	-7.09	98.30	109.50
7	G	768	MET	N-CA-C	-7.08	98.31	109.50
3	I	853	ALA	CA-C-N	7.08	131.07	120.31
3	I	853	ALA	C-N-CA	7.08	131.07	120.31
7	Q	248	ASP	CA-C-N	-7.08	111.00	119.78
7	Q	248	ASP	C-N-CA	-7.08	111.00	119.78
1	A	766	GLY	N-CA-C	-7.08	96.41	113.18
3	B	853	ALA	CA-C-N	7.07	131.06	120.31
3	B	853	ALA	C-N-CA	7.07	131.06	120.31
1	H	724	GLU	N-CA-C	-7.07	103.50	111.07
4	C	293	GLY	N-CA-C	-7.07	100.75	111.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	248	ASP	CA-C-N	-7.07	111.02	119.78
7	K	248	ASP	C-N-CA	-7.07	111.02	119.78
7	K	670	ASN	N-CA-C	-7.07	104.63	113.18
4	J	686	ALA	CA-C-N	7.07	129.75	120.28
4	J	686	ALA	C-N-CA	7.07	129.75	120.28
7	Q	258	CYS	CA-C-N	7.07	129.63	120.44
7	Q	258	CYS	C-N-CA	7.07	129.63	120.44
1	H	31	GLY	N-CA-C	-7.07	105.33	115.64
3	I	251	HIS	N-CA-C	-7.07	103.66	111.36
4	J	540	VAL	N-CA-C	-7.06	105.84	112.83
4	C	365	ARG	N-CA-C	7.06	125.83	110.80
1	A	31	GLY	N-CA-C	-7.06	105.33	115.64
1	A	568	ILE	N-CA-C	-7.06	97.50	108.44
7	G	132	THR	N-CA-C	7.06	125.83	110.80
3	B	251	HIS	N-CA-C	-7.05	103.67	111.36
3	I	806	VAL	N-CA-C	7.05	124.00	109.34
3	B	806	VAL	N-CA-C	7.05	124.00	109.34
4	J	365	ARG	N-CA-C	7.05	125.81	110.80
1	A	391	TYR	N-CA-C	-7.04	97.47	109.24
3	I	479	GLU	N-CA-C	7.04	118.61	111.07
4	C	213	ILE	CA-C-N	-7.04	111.32	122.73
4	C	213	ILE	C-N-CA	-7.04	111.32	122.73
7	G	116	LYS	N-CA-C	7.04	125.80	110.80
6	P	40	GLY	N-CA-C	-7.04	106.31	114.69
7	Q	706	CYS	N-CA-C	-7.04	98.61	109.24
4	J	213	ILE	CA-C-N	-7.04	111.33	122.73
4	J	213	ILE	C-N-CA	-7.04	111.33	122.73
1	H	391	TYR	N-CA-C	-7.04	97.49	109.24
7	Q	846	LEU	N-CA-C	-7.04	97.77	109.24
8	S	29	LYS	N-CA-C	-7.03	96.24	108.69
7	K	258	CYS	CA-C-N	7.03	129.58	120.44
7	K	258	CYS	C-N-CA	7.03	129.58	120.44
8	L	29	LYS	N-CA-C	-7.03	96.25	108.69
3	I	526	VAL	CA-C-N	7.03	129.70	120.28
3	I	526	VAL	C-N-CA	7.03	129.70	120.28
8	U	15	ALA	N-CA-C	-7.03	97.60	108.42
3	B	479	GLU	N-CA-C	7.03	118.59	111.07
8	Z	15	ALA	N-CA-C	-7.03	97.60	108.42
6	F	40	GLY	N-CA-C	-7.02	106.33	114.69
7	G	721	ALA	N-CA-C	-7.02	97.78	109.07
1	A	383	ALA	CA-C-N	7.01	134.94	121.54
1	A	383	ALA	C-N-CA	7.01	134.94	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	721	ALA	N-CA-C	-7.01	97.78	109.07
7	K	706	CYS	N-CA-C	-7.01	98.65	109.24
4	J	698	GLY	CA-C-N	7.01	129.67	120.28
4	J	698	GLY	C-N-CA	7.01	129.67	120.28
7	G	706	CYS	N-CA-C	-7.01	98.66	109.24
8	L	136	GLU	N-CA-C	7.00	119.78	110.53
7	K	846	LEU	N-CA-C	-7.00	97.83	109.24
4	C	540	VAL	N-CA-C	-7.00	105.90	112.83
4	C	698	GLY	CA-C-N	7.00	129.66	120.28
4	C	698	GLY	C-N-CA	7.00	129.66	120.28
1	A	428	VAL	N-CA-C	-7.00	97.46	108.86
3	I	763	GLN	CA-C-N	7.00	134.90	121.54
3	I	763	GLN	C-N-CA	7.00	134.90	121.54
1	H	383	ALA	CA-C-N	6.99	134.90	121.54
1	H	383	ALA	C-N-CA	6.99	134.90	121.54
3	I	405	CYS	CA-C-N	6.99	129.65	120.28
3	I	405	CYS	C-N-CA	6.99	129.65	120.28
3	B	763	GLN	CA-C-N	6.99	134.89	121.54
3	B	763	GLN	C-N-CA	6.99	134.89	121.54
7	K	721	ALA	N-CA-C	-6.99	97.81	109.07
3	I	742	TYR	N-CA-C	-6.99	97.57	109.24
3	B	526	VAL	CA-C-N	6.99	129.64	120.28
3	B	526	VAL	C-N-CA	6.99	129.64	120.28
1	A	444	ILE	N-CA-C	-6.99	96.46	107.15
3	B	742	TYR	N-CA-C	-6.99	97.57	109.24
1	H	340	PHE	CA-C-N	6.98	134.88	121.54
1	H	340	PHE	C-N-CA	6.98	134.88	121.54
7	G	846	LEU	N-CA-C	-6.98	97.86	109.24
1	H	444	ILE	N-CA-C	-6.98	96.47	107.15
8	S	136	GLU	N-CA-C	6.98	119.74	110.53
3	B	405	CYS	CA-C-N	6.98	129.63	120.28
3	B	405	CYS	C-N-CA	6.98	129.63	120.28
4	C	546	TYR	CA-C-N	6.98	133.38	122.70
4	C	546	TYR	C-N-CA	6.98	133.38	122.70
1	H	428	VAL	N-CA-C	-6.98	97.49	108.86
1	H	1178	ARG	CA-C-N	6.98	128.86	120.14
1	H	1178	ARG	C-N-CA	6.98	128.86	120.14
6	F	154	PHE	N-CA-C	-6.97	99.61	110.42
6	P	154	PHE	N-CA-C	-6.97	99.62	110.42
1	A	340	PHE	CA-C-N	6.97	134.84	121.54
1	A	340	PHE	C-N-CA	6.97	134.84	121.54
1	A	1178	ARG	CA-C-N	6.97	128.85	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1178	ARG	C-N-CA	6.97	128.85	120.14
7	K	794	ILE	N-CA-C	-6.97	99.15	108.35
7	Q	794	ILE	N-CA-C	-6.96	99.16	108.35
1	H	597	PHE	CA-C-N	6.96	129.61	120.28
1	H	597	PHE	C-N-CA	6.96	129.61	120.28
7	Q	210	ALA	CA-C-N	6.96	129.99	120.46
7	Q	210	ALA	C-N-CA	6.96	129.99	120.46
7	K	210	ALA	CA-C-N	6.95	129.99	120.46
7	K	210	ALA	C-N-CA	6.95	129.99	120.46
1	H	464	LEU	N-CA-C	-6.95	101.80	112.99
1	A	464	LEU	N-CA-C	-6.95	101.80	112.99
4	J	546	TYR	CA-C-N	6.95	133.33	122.70
4	J	546	TYR	C-N-CA	6.95	133.33	122.70
3	B	428	ASN	N-CA-C	6.94	118.93	111.36
3	B	819	VAL	CA-C-N	6.94	133.98	122.73
3	B	819	VAL	C-N-CA	6.94	133.98	122.73
4	C	788	LEU	N-CA-C	6.94	120.97	108.48
4	J	377	ILE	CA-C-N	-6.94	111.91	122.81
4	J	377	ILE	C-N-CA	-6.94	111.91	122.81
4	J	788	LEU	N-CA-C	6.94	120.98	108.48
7	G	794	ILE	N-CA-C	-6.94	99.19	108.35
1	A	178	GLU	N-CA-C	-6.94	99.17	108.74
7	G	240	LEU	N-CA-C	6.94	119.69	111.71
3	I	819	VAL	CA-C-N	6.94	133.97	122.73
3	I	819	VAL	C-N-CA	6.94	133.97	122.73
3	I	428	ASN	N-CA-C	6.93	118.92	111.36
4	J	213	ILE	CA-C-O	-6.93	112.82	120.72
1	A	597	PHE	CA-C-N	6.93	129.56	120.28
1	A	597	PHE	C-N-CA	6.93	129.56	120.28
3	B	482	SER	N-CA-C	6.93	125.55	110.80
3	I	482	SER	N-CA-C	6.92	125.55	110.80
8	L	80	ILE	CA-C-N	6.92	134.97	121.41
8	L	80	ILE	C-N-CA	6.92	134.97	121.41
8	Z	65	LEU	N-CA-C	-6.92	98.65	109.72
1	H	178	GLU	N-CA-C	-6.92	99.19	108.74
1	A	312	GLY	N-CA-C	-6.91	106.09	114.66
8	L	37	SER	CA-C-N	6.91	130.24	120.42
8	L	37	SER	C-N-CA	6.91	130.24	120.42
8	U	139	PRO	N-CA-C	6.91	122.62	113.57
4	C	397	ALA	CA-C-N	6.91	130.47	120.38
4	C	397	ALA	C-N-CA	6.91	130.47	120.38
8	S	37	SER	CA-C-N	6.91	130.23	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	S	37	SER	C-N-CA	6.91	130.23	120.42
7	K	865	PRO	N-CA-C	6.91	122.97	113.65
4	C	593	GLU	CA-C-N	6.91	129.42	120.44
4	C	593	GLU	C-N-CA	6.91	129.42	120.44
3	I	828	ASP	N-CA-C	-6.91	96.09	110.80
6	P	29	GLY	N-CA-C	-6.91	105.34	115.63
4	J	397	ALA	CA-C-N	6.90	130.46	120.38
4	J	397	ALA	C-N-CA	6.90	130.46	120.38
1	A	76	LYS	N-CA-C	-6.90	98.59	109.50
6	F	29	GLY	N-CA-C	-6.90	105.35	115.63
4	J	89	LEU	N-CA-C	-6.90	96.10	110.80
7	G	539	GLN	N-CA-C	-6.90	99.68	109.96
3	B	828	ASP	N-CA-C	-6.90	96.11	110.80
1	H	312	GLY	N-CA-C	-6.89	106.11	114.66
8	U	65	LEU	N-CA-C	-6.89	98.69	109.72
4	J	593	GLU	CA-C-N	6.89	129.40	120.44
4	J	593	GLU	C-N-CA	6.89	129.40	120.44
6	F	26	ASP	N-CA-C	6.89	121.43	112.89
4	C	377	ILE	CA-C-N	-6.89	112.00	122.81
4	C	377	ILE	C-N-CA	-6.89	112.00	122.81
7	Q	865	PRO	N-CA-C	6.89	122.95	113.65
4	C	89	LEU	N-CA-C	-6.88	96.14	110.80
3	I	63	MET	CA-C-N	6.88	130.20	120.42
3	I	63	MET	C-N-CA	6.88	130.20	120.42
4	C	213	ILE	CA-C-O	-6.88	112.87	120.72
7	G	23	GLU	CA-C-N	6.88	130.06	120.29
7	G	23	GLU	C-N-CA	6.88	130.06	120.29
6	P	26	ASP	N-CA-C	6.88	121.42	112.89
8	Z	139	PRO	N-CA-C	6.88	122.58	113.57
8	S	80	ILE	CA-C-N	6.88	134.89	121.41
8	S	80	ILE	C-N-CA	6.88	134.89	121.41
6	R	91	VAL	CA-C-N	6.88	132.50	122.94
6	R	91	VAL	C-N-CA	6.88	132.50	122.94
3	I	407	VAL	N-CA-C	-6.88	103.82	110.42
6	T	147	SER	N-CA-C	-6.87	104.86	113.18
3	B	250	CYS	N-CA-C	6.87	119.61	111.71
1	H	76	LYS	N-CA-C	-6.87	98.65	109.50
4	J	9	ARG	N-CA-C	-6.87	95.90	107.99
4	J	535	ILE	N-CA-C	-6.87	98.54	108.36
4	C	111	GLN	N-CA-C	-6.86	100.59	110.40
6	M	147	SER	N-CA-C	-6.86	104.88	113.18
3	B	63	MET	CA-C-N	6.86	130.16	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	63	MET	C-N-CA	6.86	130.16	120.42
1	H	799	ALA	CA-C-O	-6.86	113.33	120.87
3	I	250	CYS	N-CA-C	6.86	119.59	111.71
7	G	865	PRO	N-CA-C	6.85	122.90	113.65
4	C	301	ARG	N-CA-C	-6.85	99.82	110.17
6	R	46	ILE	CA-C-N	6.85	128.40	119.84
6	R	46	ILE	C-N-CA	6.85	128.40	119.84
4	J	795	GLU	N-CA-C	-6.85	98.90	109.52
4	C	795	GLU	N-CA-C	-6.85	98.91	109.52
4	C	246	THR	N-CA-C	-6.85	98.68	109.50
6	R	25	LEU	CA-C-N	6.85	131.65	121.72
6	R	25	LEU	C-N-CA	6.85	131.65	121.72
3	B	407	VAL	N-CA-C	-6.84	103.85	110.42
1	A	747	ARG	CA-C-N	6.84	129.84	120.46
1	A	747	ARG	C-N-CA	6.84	129.84	120.46
4	C	509	GLY	N-CA-C	-6.84	99.82	112.62
4	C	747	ARG	N-CA-C	6.84	118.39	111.07
4	C	535	ILE	N-CA-C	-6.84	98.58	108.36
7	G	703	PRO	CA-C-N	6.84	133.03	121.47
7	G	703	PRO	C-N-CA	6.84	133.03	121.47
4	J	747	ARG	N-CA-C	6.84	118.39	111.07
4	C	282	GLY	N-CA-C	-6.84	104.86	115.73
1	H	370	TYR	N-CA-C	-6.84	100.36	110.48
4	J	301	ARG	N-CA-C	-6.84	99.84	110.17
4	C	9	ARG	N-CA-C	-6.84	95.96	107.99
4	J	509	GLY	N-CA-C	-6.84	99.84	112.62
7	K	703	PRO	CA-C-N	6.83	133.02	121.47
7	K	703	PRO	C-N-CA	6.83	133.02	121.47
4	J	246	THR	N-CA-C	-6.83	98.70	109.50
1	H	189	LEU	N-CA-C	6.83	119.38	110.43
4	J	322	VAL	N-CA-C	-6.83	102.49	110.21
4	C	474	GLY	CA-C-N	6.83	134.58	121.54
4	C	474	GLY	C-N-CA	6.83	134.58	121.54
7	K	838	HIS	CA-C-O	6.83	128.77	120.92
1	H	747	ARG	CA-C-N	6.83	129.81	120.46
1	H	747	ARG	C-N-CA	6.83	129.81	120.46
1	A	370	TYR	N-CA-C	-6.83	100.38	110.48
4	C	322	VAL	N-CA-C	-6.82	102.50	110.21
3	B	259	ARG	N-CA-C	-6.82	103.84	111.28
7	G	292	LEU	N-CA-C	6.82	118.37	111.07
7	Q	703	PRO	CA-C-N	6.82	132.99	121.47
7	Q	703	PRO	C-N-CA	6.82	132.99	121.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	474	GLY	CA-C-N	6.82	134.56	121.54
4	J	474	GLY	C-N-CA	6.82	134.56	121.54
4	J	282	GLY	N-CA-C	-6.81	104.90	115.73
4	C	394	PHE	N-CA-C	6.81	119.79	109.23
4	J	394	PHE	N-CA-C	6.81	119.78	109.23
4	C	383	LEU	N-CA-C	-6.81	102.80	111.92
3	I	788	SER	N-CA-C	6.81	122.01	112.75
7	G	296	CYS	CA-C-N	6.80	134.54	121.54
7	G	296	CYS	C-N-CA	6.80	134.54	121.54
1	A	687	HIS	N-CA-C	-6.80	104.88	113.72
6	F	46	ILE	CA-C-N	6.80	128.34	119.84
6	F	46	ILE	C-N-CA	6.80	128.34	119.84
7	G	686	ALA	N-CA-C	6.80	125.28	110.80
4	J	383	LEU	N-CA-C	-6.80	102.81	111.92
1	A	799	ALA	CA-C-O	-6.79	113.39	120.87
3	B	936	ALA	N-CA-C	-6.79	102.05	112.99
7	Q	686	ALA	N-CA-C	6.79	125.27	110.80
6	R	92	VAL	N-CA-C	6.79	118.58	108.46
1	H	687	HIS	N-CA-C	-6.79	104.90	113.72
3	B	939	THR	N-CA-C	-6.79	96.35	110.80
7	Q	838	HIS	CA-C-O	6.79	128.72	120.92
3	B	788	SER	N-CA-C	6.78	121.97	112.75
3	I	259	ARG	N-CA-C	-6.78	103.89	111.28
4	J	661	ALA	O-C-N	6.78	129.05	122.07
3	I	936	ALA	N-CA-C	-6.78	102.08	112.99
4	J	323	GLN	CA-C-N	6.78	131.44	120.60
4	J	323	GLN	C-N-CA	6.78	131.44	120.60
4	C	323	GLN	CA-C-N	6.78	131.44	120.60
4	C	323	GLN	C-N-CA	6.78	131.44	120.60
3	B	757	ASP	N-CA-C	-6.77	98.58	109.96
1	A	189	LEU	N-CA-C	6.77	119.29	110.43
7	G	264	GLU	N-CA-C	6.77	118.66	111.28
3	I	939	THR	N-CA-C	-6.76	96.39	110.80
7	K	686	ALA	N-CA-C	6.76	125.20	110.80
7	K	834	PHE	CA-C-N	6.76	130.31	120.71
7	K	834	PHE	C-N-CA	6.76	130.31	120.71
6	F	58	TYR	N-CA-C	6.76	119.48	108.26
7	G	118	ASP	CA-C-O	6.75	127.58	120.42
3	I	757	ASP	N-CA-C	-6.75	98.61	109.96
3	B	857	GLN	N-CA-C	-6.75	103.92	111.28
7	G	542	LEU	CA-C-N	6.75	129.22	120.44
7	G	542	LEU	C-N-CA	6.75	129.22	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	R	146	HIS	CA-C-N	6.74	134.42	121.54
6	R	146	HIS	C-N-CA	6.74	134.42	121.54
4	C	661	ALA	O-C-N	6.74	129.01	122.07
5	D	57	VAL	N-CA-C	-6.74	98.77	108.48
7	G	382	ALA	CA-C-N	6.74	129.69	120.46
7	G	382	ALA	C-N-CA	6.74	129.69	120.46
7	Q	834	PHE	CA-C-N	6.74	130.28	120.71
7	Q	834	PHE	C-N-CA	6.74	130.28	120.71
6	P	46	ILE	CA-C-N	6.73	128.26	119.84
6	P	46	ILE	C-N-CA	6.73	128.26	119.84
4	C	150	ILE	N-CA-C	-6.72	98.69	108.71
7	G	25	SER	N-CA-C	6.72	118.61	111.28
6	P	58	TYR	N-CA-C	6.72	119.42	108.26
7	G	533	ASN	CA-C-N	6.72	129.96	120.42
7	G	533	ASN	C-N-CA	6.72	129.96	120.42
5	N	57	VAL	N-CA-C	-6.72	98.80	108.48
8	Z	140	GLN	N-CA-C	6.72	118.68	111.36
7	K	220	ARG	N-CA-C	-6.72	98.97	109.25
6	R	37	LEU	N-CA-C	6.71	118.25	111.07
7	K	297	SER	N-CA-C	6.71	125.09	110.80
4	J	150	ILE	N-CA-C	-6.71	98.71	108.71
7	Q	297	SER	N-CA-C	6.70	125.07	110.80
1	H	793	LYS	N-CA-C	6.69	119.19	108.41
7	Q	220	ARG	N-CA-C	-6.69	99.01	109.25
3	I	857	GLN	N-CA-C	-6.69	103.99	111.28
7	G	61	LEU	CA-C-N	6.69	126.69	120.34
7	G	61	LEU	C-N-CA	6.69	126.69	120.34
8	U	140	GLN	N-CA-C	6.69	118.65	111.36
4	C	65	PHE	N-CA-C	-6.68	98.83	109.59
7	K	78	GLN	N-CA-C	-6.68	103.59	113.61
1	A	793	LYS	N-CA-C	6.67	119.16	108.41
7	G	834	PHE	CA-C-N	6.67	130.19	120.71
7	G	834	PHE	C-N-CA	6.67	130.19	120.71
6	R	171	GLU	N-CA-C	6.67	118.44	111.03
1	H	760	LEU	CA-C-N	6.67	129.52	120.44
1	H	760	LEU	C-N-CA	6.67	129.52	120.44
7	Q	283	LYS	N-CA-C	6.67	119.16	111.02
1	A	760	LEU	CA-C-N	6.67	129.51	120.44
1	A	760	LEU	C-N-CA	6.67	129.51	120.44
4	J	65	PHE	N-CA-C	-6.67	98.85	109.59
4	J	111	GLN	CA-C-N	6.67	128.18	119.84
4	J	111	GLN	C-N-CA	6.67	128.18	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	273	ILE	O-C-N	-6.66	116.06	123.26
3	B	323	LEU	CA-C-N	6.66	129.87	120.28
3	B	323	LEU	C-N-CA	6.66	129.87	120.28
4	C	711	MET	N-CA-C	-6.66	104.02	111.28
7	G	119	ASN	CA-C-N	6.66	129.75	120.29
7	G	119	ASN	C-N-CA	6.66	129.75	120.29
7	K	283	LYS	N-CA-C	6.66	119.14	111.02
7	K	812	PRO	CA-C-O	-6.66	113.32	121.31
7	G	54	LEU	N-CA-C	-6.65	104.11	111.36
1	A	273	ILE	O-C-N	-6.65	116.08	123.26
7	G	136	MET	N-CA-C	-6.65	104.64	112.89
7	K	740	GLY	N-CA-C	6.65	123.24	111.73
4	J	711	MET	N-CA-C	-6.65	104.03	111.28
3	B	524	GLY	CA-C-N	6.65	126.90	119.32
3	B	524	GLY	C-N-CA	6.65	126.90	119.32
3	I	323	LEU	CA-C-N	6.65	129.85	120.28
3	I	323	LEU	C-N-CA	6.65	129.85	120.28
4	J	650	GLN	CA-C-N	6.65	129.73	120.29
4	J	650	GLN	C-N-CA	6.65	129.73	120.29
1	A	25	LEU	N-CA-C	-6.64	98.89	109.59
7	G	871	ALA	CA-C-N	6.64	129.19	120.28
7	G	871	ALA	C-N-CA	6.64	129.19	120.28
4	C	650	GLN	CA-C-N	6.64	129.72	120.29
4	C	650	GLN	C-N-CA	6.64	129.72	120.29
4	C	111	GLN	CA-C-N	6.64	128.14	119.84
4	C	111	GLN	C-N-CA	6.64	128.14	119.84
6	R	42	VAL	N-CA-C	6.64	123.15	109.34
1	A	28	LEU	N-CA-C	-6.64	99.86	110.14
1	H	96	ILE	N-CA-C	6.64	117.40	107.51
3	I	753	ASP	CA-C-O	6.64	127.66	120.43
7	Q	150	ASP	CA-C-N	6.64	134.22	121.54
7	Q	150	ASP	C-N-CA	6.64	134.22	121.54
1	H	28	LEU	N-CA-C	-6.63	99.86	110.14
8	U	18	ILE	CA-C-O	6.63	126.97	120.27
7	Q	78	GLN	N-CA-C	-6.63	103.67	113.61
7	G	740	GLY	N-CA-C	6.63	123.20	111.73
7	G	812	PRO	CA-C-O	-6.63	113.36	121.31
7	K	756	LEU	N-CA-C	-6.63	98.60	109.40
3	I	917	GLY	N-CA-C	6.62	124.17	115.36
1	H	25	LEU	N-CA-C	-6.62	98.93	109.59
3	B	753	ASP	CA-C-O	6.62	127.64	120.43
3	B	917	GLY	N-CA-C	6.62	124.16	115.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	812	PRO	CA-C-O	-6.62	113.37	121.31
1	A	96	ILE	N-CA-C	6.62	117.37	107.51
7	G	700	TYR	N-CA-C	6.62	119.88	109.96
7	K	871	ALA	CA-C-N	6.62	129.15	120.28
7	K	871	ALA	C-N-CA	6.62	129.15	120.28
7	Q	756	LEU	N-CA-C	-6.62	98.62	109.40
1	H	71	ASP	CA-C-N	6.61	129.04	120.44
1	H	71	ASP	C-N-CA	6.61	129.04	120.44
8	Z	18	ILE	CA-C-O	6.61	126.95	120.27
4	J	426	PRO	N-CA-C	-6.61	101.96	111.22
7	Q	871	ALA	CA-C-N	6.61	129.13	120.28
7	Q	871	ALA	C-N-CA	6.61	129.13	120.28
3	I	863	GLU	CA-C-N	6.60	129.13	120.28
3	I	863	GLU	C-N-CA	6.60	129.13	120.28
8	L	62	LEU	CA-C-N	6.60	134.15	121.54
8	L	62	LEU	C-N-CA	6.60	134.15	121.54
4	J	715	LEU	CA-C-N	6.60	129.13	120.28
4	J	715	LEU	C-N-CA	6.60	129.13	120.28
5	N	83	LEU	CA-C-N	6.60	129.13	120.28
5	N	83	LEU	C-N-CA	6.60	129.13	120.28
6	F	45	THR	N-CA-C	-6.60	98.69	108.79
7	Q	740	GLY	N-CA-C	6.60	123.15	111.73
8	S	62	LEU	CA-C-N	6.60	134.14	121.54
8	S	62	LEU	C-N-CA	6.60	134.14	121.54
7	G	756	LEU	N-CA-C	-6.59	98.65	109.40
5	D	83	LEU	CA-C-N	6.59	129.11	120.28
5	D	83	LEU	C-N-CA	6.59	129.11	120.28
6	P	45	THR	N-CA-C	-6.59	98.70	108.79
7	G	250	PRO	CA-C-N	6.59	129.00	120.44
7	G	250	PRO	C-N-CA	6.59	129.00	120.44
6	R	155	ILE	N-CA-C	-6.59	98.95	108.17
4	J	802	LYS	N-CA-C	6.59	124.83	110.80
4	C	715	LEU	CA-C-N	6.58	129.10	120.28
4	C	715	LEU	C-N-CA	6.58	129.10	120.28
7	G	247	ARG	N-CA-C	-6.58	104.97	112.87
7	K	150	ASP	CA-C-N	6.58	134.11	121.54
7	K	150	ASP	C-N-CA	6.58	134.11	121.54
4	J	736	GLY	N-CA-C	-6.58	97.58	113.18
3	B	863	GLU	CA-C-N	6.58	129.10	120.28
3	B	863	GLU	C-N-CA	6.58	129.10	120.28
4	C	802	LYS	N-CA-C	6.58	124.82	110.80
3	B	755	VAL	N-CA-C	-6.58	98.15	108.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	426	PRO	N-CA-C	-6.58	102.01	111.22
6	R	41	GLU	N-CA-C	-6.57	100.56	110.28
3	I	524	GLY	CA-C-N	6.57	126.81	119.32
3	I	524	GLY	C-N-CA	6.57	126.81	119.32
4	J	640	ASP	O-C-N	-6.56	117.25	121.85
6	F	82	TYR	N-CA-C	-6.56	98.53	108.96
4	J	803	GLU	N-CA-C	6.56	124.77	110.80
1	A	71	ASP	CA-C-N	6.55	128.95	120.44
1	A	71	ASP	C-N-CA	6.55	128.95	120.44
5	D	385	SER	N-CA-C	-6.55	102.35	110.41
7	G	494	ALA	CA-C-N	6.55	129.06	120.28
7	G	494	ALA	C-N-CA	6.55	129.06	120.28
4	C	736	GLY	N-CA-C	-6.54	97.67	113.18
7	G	263	HIS	CA-C-N	6.54	129.05	120.28
7	G	263	HIS	C-N-CA	6.54	129.05	120.28
1	A	144	HIS	CA-C-N	6.54	128.02	119.84
1	A	144	HIS	C-N-CA	6.54	128.02	119.84
4	C	335	ILE	CA-C-N	6.54	130.63	120.75
4	C	335	ILE	C-N-CA	6.54	130.63	120.75
4	C	803	GLU	N-CA-C	6.54	124.74	110.80
7	G	785	LYS	N-CA-C	-6.54	99.36	109.24
3	I	755	VAL	N-CA-C	-6.54	98.21	108.81
4	J	411	ILE	N-CA-C	-6.54	95.73	109.34
4	C	185	GLU	N-CA-C	-6.54	103.91	112.41
8	S	110	GLU	CA-C-N	6.54	129.04	120.28
8	S	110	GLU	C-N-CA	6.54	129.04	120.28
4	J	697	GLY	N-CA-C	6.54	120.08	112.50
4	J	708	ASN	CA-C-N	6.54	129.04	120.28
4	J	708	ASN	C-N-CA	6.54	129.04	120.28
7	Q	220	ARG	CA-C-N	6.54	134.03	121.54
7	Q	220	ARG	C-N-CA	6.54	134.03	121.54
4	C	697	GLY	N-CA-C	6.54	120.08	112.50
4	C	411	ILE	N-CA-C	-6.54	95.75	109.34
4	C	419	LYS	N-CA-C	-6.54	98.33	109.24
7	G	318	HIS	N-CA-C	6.54	121.64	112.75
4	J	133	SER	CA-C-O	-6.54	114.44	121.56
7	Q	785	LYS	N-CA-C	-6.53	99.38	109.24
7	K	220	ARG	CA-C-N	6.53	134.01	121.54
7	K	220	ARG	C-N-CA	6.53	134.01	121.54
4	J	419	LYS	N-CA-C	-6.53	98.33	109.24
6	P	82	TYR	N-CA-C	-6.53	98.58	108.96
7	K	785	LYS	N-CA-C	-6.53	99.38	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	724	LYS	N-CA-C	-6.53	98.34	109.24
1	A	595	THR	CA-C-N	6.53	129.68	120.28
1	A	595	THR	C-N-CA	6.53	129.68	120.28
7	G	217	LYS	N-CA-C	-6.52	104.00	112.68
4	J	335	ILE	CA-C-N	6.52	130.60	120.75
4	J	335	ILE	C-N-CA	6.52	130.60	120.75
7	Q	168	LYS	N-CA-C	-6.52	103.86	110.97
4	C	133	SER	CA-C-O	-6.52	114.45	121.56
4	C	708	ASN	CA-C-N	6.52	129.02	120.28
4	C	708	ASN	C-N-CA	6.52	129.02	120.28
4	C	724	LYS	N-CA-C	-6.52	98.35	109.24
3	B	364	SER	N-CA-C	-6.52	102.42	111.81
7	K	168	LYS	N-CA-C	-6.52	103.86	110.97
1	H	595	THR	CA-C-N	6.52	129.66	120.28
1	H	595	THR	C-N-CA	6.52	129.66	120.28
1	A	402	SER	N-CA-C	-6.51	96.75	108.48
8	L	110	GLU	CA-C-N	6.51	129.01	120.28
8	L	110	GLU	C-N-CA	6.51	129.01	120.28
4	J	185	GLU	N-CA-C	-6.51	103.94	112.41
3	I	364	SER	N-CA-C	-6.51	102.44	111.81
5	N	53	SER	N-CA-C	-6.51	104.64	112.58
6	M	22	MET	CA-C-N	-6.51	113.55	122.92
6	M	22	MET	C-N-CA	-6.51	113.55	122.92
4	C	640	ASP	O-C-N	-6.50	117.30	121.85
1	H	731	GLY	CA-C-N	6.50	131.58	120.72
1	H	731	GLY	C-N-CA	6.50	131.58	120.72
7	K	178	VAL	CA-C-O	6.50	127.73	120.64
1	H	144	HIS	CA-C-N	6.50	127.97	119.84
1	H	144	HIS	C-N-CA	6.50	127.97	119.84
7	Q	178	VAL	CA-C-O	6.50	127.72	120.64
1	A	731	GLY	CA-C-N	6.49	131.56	120.72
1	A	731	GLY	C-N-CA	6.49	131.56	120.72
7	K	813	CYS	N-CA-C	6.49	124.63	110.80
1	H	402	SER	N-CA-C	-6.49	96.79	108.48
7	Q	813	CYS	N-CA-C	6.48	124.61	110.80
4	C	696	TYR	N-CA-C	6.48	118.34	111.28
4	J	696	TYR	N-CA-C	6.48	118.34	111.28
4	C	105	ILE	N-CA-C	-6.47	98.81	108.46
7	G	161	VAL	CA-C-O	6.47	127.50	120.57
7	Q	288	ALA	CA-C-N	6.47	128.72	120.56
7	Q	288	ALA	C-N-CA	6.47	128.72	120.56
7	Q	40	ASN	N-CA-C	-6.47	95.51	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	L	85	GLU	CA-C-N	6.47	133.90	121.54
8	L	85	GLU	C-N-CA	6.47	133.90	121.54
1	A	758	ALA	CA-C-O	-6.47	113.69	120.55
7	K	183	GLU	CA-C-O	6.47	127.28	120.42
7	K	670	ASN	CA-C-N	6.47	129.27	120.54
7	K	670	ASN	C-N-CA	6.47	129.27	120.54
1	A	621	VAL	CA-C-N	6.46	134.07	121.41
1	A	621	VAL	C-N-CA	6.46	134.07	121.41
6	T	22	MET	CA-C-N	-6.46	113.62	122.92
6	T	22	MET	C-N-CA	-6.46	113.62	122.92
7	G	111	LYS	N-CA-C	-6.46	104.24	111.28
4	J	588	LEU	N-CA-C	-6.46	97.05	110.80
1	H	621	VAL	CA-C-N	6.46	134.07	121.41
1	H	621	VAL	C-N-CA	6.46	134.07	121.41
7	K	40	ASN	N-CA-C	-6.46	95.55	109.81
4	J	176	SER	O-C-N	-6.46	115.17	121.56
1	H	611	VAL	CA-C-N	6.45	128.93	120.28
1	H	611	VAL	C-N-CA	6.45	128.93	120.28
5	D	53	SER	N-CA-C	-6.45	104.71	112.58
3	B	803	ASN	N-CA-C	-6.45	100.94	110.48
4	C	202	LEU	O-C-N	6.45	131.53	123.15
6	M	68	VAL	N-CA-C	6.45	117.12	107.51
7	K	273	ALA	N-CA-C	6.45	118.39	111.36
4	J	602	ASP	CA-C-N	6.45	128.82	120.44
4	J	602	ASP	C-N-CA	6.45	128.82	120.44
3	I	803	ASN	N-CA-C	-6.44	100.94	110.48
8	S	85	GLU	CA-C-N	6.44	133.84	121.54
8	S	85	GLU	C-N-CA	6.44	133.84	121.54
7	G	355	SER	CA-C-N	6.44	128.81	120.44
7	G	355	SER	C-N-CA	6.44	128.81	120.44
1	H	758	ALA	CA-C-O	-6.44	113.73	120.55
4	J	615	LYS	CA-C-N	6.43	128.90	120.28
4	J	615	LYS	C-N-CA	6.43	128.90	120.28
7	Q	670	ASN	CA-C-N	6.43	129.23	120.54
7	Q	670	ASN	C-N-CA	6.43	129.23	120.54
3	B	935	ASP	N-CA-C	6.43	124.50	110.80
4	C	602	ASP	CA-C-N	6.43	128.80	120.44
4	C	602	ASP	C-N-CA	6.43	128.80	120.44
1	H	424	ASN	N-CA-C	6.43	124.50	110.80
3	I	236	ASP	N-CA-C	6.43	118.29	111.28
1	A	611	VAL	CA-C-N	6.43	128.89	120.28
1	A	611	VAL	C-N-CA	6.43	128.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	588	LEU	N-CA-C	-6.43	97.11	110.80
7	K	288	ALA	CA-C-N	6.43	128.66	120.56
7	K	288	ALA	C-N-CA	6.43	128.66	120.56
3	B	849	THR	N-CA-C	6.42	119.17	109.41
8	L	141	GLN	CA-C-N	6.42	128.65	120.56
8	L	141	GLN	C-N-CA	6.42	128.65	120.56
6	T	62	SER	N-CA-C	6.42	119.69	107.75
7	Q	273	ALA	N-CA-C	6.42	118.36	111.36
4	C	662	VAL	N-CA-C	-6.42	95.99	109.34
1	H	677	LEU	N-CA-C	6.42	118.35	111.36
3	I	849	THR	N-CA-C	6.42	119.16	109.41
3	I	935	ASP	N-CA-C	6.42	124.47	110.80
1	A	424	ASN	N-CA-C	6.42	124.46	110.80
1	A	732	HIS	CA-C-N	6.41	128.88	120.28
1	A	732	HIS	C-N-CA	6.41	128.88	120.28
4	C	615	LYS	CA-C-N	6.41	128.87	120.28
4	C	615	LYS	C-N-CA	6.41	128.87	120.28
6	F	32	THR	CA-C-N	6.41	128.87	120.60
6	F	32	THR	C-N-CA	6.41	128.87	120.60
4	J	184	HIS	N-CA-C	6.41	118.83	110.43
3	B	236	ASP	N-CA-C	6.41	118.27	111.28
6	M	62	SER	N-CA-C	6.41	119.67	107.75
1	H	732	HIS	CA-C-N	6.41	128.87	120.28
1	H	732	HIS	C-N-CA	6.41	128.87	120.28
3	I	528	LYS	CA-C-N	6.41	128.87	120.28
3	I	528	LYS	C-N-CA	6.41	128.87	120.28
4	J	105	ILE	N-CA-C	-6.41	98.92	108.46
7	G	509	ILE	CA-C-N	6.40	128.76	120.44
7	G	509	ILE	C-N-CA	6.40	128.76	120.44
7	G	811	HIS	CA-C-N	6.40	126.16	119.76
7	G	811	HIS	C-N-CA	6.40	126.16	119.76
4	C	661	ALA	CA-C-N	6.40	133.50	121.97
4	C	661	ALA	C-N-CA	6.40	133.50	121.97
4	J	111	GLN	N-CA-C	-6.40	100.65	110.32
4	J	202	LEU	O-C-N	6.40	131.47	123.15
4	C	176	SER	O-C-N	-6.40	115.22	121.56
4	J	151	ASN	CA-C-O	-6.40	114.53	119.46
7	Q	183	GLU	CA-C-O	6.40	127.20	120.42
7	G	670	ASN	CA-C-N	6.40	129.18	120.54
7	G	670	ASN	C-N-CA	6.40	129.18	120.54
1	H	629	LEU	N-CA-C	-6.40	104.63	112.88
3	B	914	SER	CA-C-N	6.39	131.25	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	914	SER	C-N-CA	6.39	131.25	120.64
7	G	537	GLN	CA-C-O	-6.39	113.64	120.42
1	H	400	ALA	CA-C-N	6.39	128.85	120.28
1	H	400	ALA	C-N-CA	6.39	128.85	120.28
6	P	32	THR	CA-C-N	6.39	128.85	120.60
6	P	32	THR	C-N-CA	6.39	128.85	120.60
3	B	528	LYS	CA-C-N	6.39	128.84	120.28
3	B	528	LYS	C-N-CA	6.39	128.84	120.28
7	K	156	SER	N-CA-C	-6.39	104.31	111.28
4	J	662	VAL	N-CA-C	-6.39	96.05	109.34
4	C	488	LEU	N-CA-C	6.38	119.94	109.85
1	A	400	ALA	CA-C-N	6.38	128.83	120.28
1	A	400	ALA	C-N-CA	6.38	128.83	120.28
7	G	104	ILE	CA-C-O	6.38	127.58	120.95
7	K	189	ASN	N-CA-C	-6.38	98.58	109.24
1	A	677	LEU	N-CA-C	6.38	118.31	111.36
4	J	661	ALA	CA-C-N	6.38	133.45	121.97
4	J	661	ALA	C-N-CA	6.38	133.45	121.97
3	B	64	ILE	CA-C-N	6.37	128.82	120.28
3	B	64	ILE	C-N-CA	6.37	128.82	120.28
5	N	54	VAL	CA-C-N	6.37	130.53	121.42
5	N	54	VAL	C-N-CA	6.37	130.53	121.42
7	G	130	GLN	N-CA-C	-6.37	104.42	111.36
7	G	484	HIS	CA-C-N	6.37	128.72	120.44
7	G	484	HIS	C-N-CA	6.37	128.72	120.44
4	J	488	LEU	N-CA-C	6.37	119.91	109.85
7	Q	189	ASN	N-CA-C	-6.37	98.60	109.24
3	I	914	SER	CA-C-N	6.37	131.21	120.64
3	I	914	SER	C-N-CA	6.37	131.21	120.64
4	C	184	HIS	N-CA-C	6.37	118.77	110.43
3	I	64	ILE	CA-C-N	6.37	128.81	120.28
3	I	64	ILE	C-N-CA	6.37	128.81	120.28
1	A	574	LYS	CA-C-N	6.36	133.88	121.41
1	A	574	LYS	C-N-CA	6.36	133.88	121.41
4	C	43	ASN	CA-C-N	6.36	129.44	120.28
4	C	43	ASN	C-N-CA	6.36	129.44	120.28
7	Q	156	SER	N-CA-C	-6.36	104.34	111.28
4	J	524	VAL	CA-C-N	-6.36	111.79	120.44
4	J	524	VAL	C-N-CA	-6.36	111.79	120.44
1	A	604	ILE	N-CA-C	-6.36	104.30	110.72
5	D	54	VAL	CA-C-N	6.36	130.51	121.42
5	D	54	VAL	C-N-CA	6.36	130.51	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	151	ASN	CA-C-O	-6.36	114.57	119.46
4	J	100	ASP	CA-C-N	6.36	132.97	121.97
4	J	100	ASP	C-N-CA	6.36	132.97	121.97
4	C	100	ASP	CA-C-N	6.35	132.96	121.97
4	C	100	ASP	C-N-CA	6.35	132.96	121.97
7	K	292	LEU	N-CA-C	6.35	119.01	111.33
1	H	158	THR	CA-C-N	6.35	131.77	122.94
1	H	158	THR	C-N-CA	6.35	131.77	122.94
1	H	574	LYS	CA-C-N	6.35	133.85	121.41
1	H	574	LYS	C-N-CA	6.35	133.85	121.41
8	S	141	GLN	CA-C-N	6.35	128.56	120.56
8	S	141	GLN	C-N-CA	6.35	128.56	120.56
4	C	524	VAL	CA-C-N	-6.35	111.81	120.44
4	C	524	VAL	C-N-CA	-6.35	111.81	120.44
4	J	367	VAL	CA-C-N	-6.35	114.83	123.14
4	J	367	VAL	C-N-CA	-6.35	114.83	123.14
7	Q	811	HIS	CA-C-N	6.35	126.11	119.76
7	Q	811	HIS	C-N-CA	6.35	126.11	119.76
3	B	896	GLU	N-CA-C	-6.35	98.04	108.76
1	H	20	LYS	N-CA-C	-6.35	106.17	114.04
1	A	629	LEU	N-CA-C	-6.34	104.70	112.88
4	C	414	ILE	CA-C-O	-6.34	113.57	120.67
6	M	48	THR	CA-C-O	6.34	128.27	121.55
4	C	164	ASP	N-CA-C	-6.34	105.65	113.19
7	K	811	HIS	CA-C-N	6.34	126.10	119.76
7	K	811	HIS	C-N-CA	6.34	126.10	119.76
1	A	519	ASP	CA-C-N	-6.33	113.99	122.42
1	A	519	ASP	C-N-CA	-6.33	113.99	122.42
3	I	896	GLU	N-CA-C	-6.33	98.06	108.76
4	J	835	VAL	CA-C-N	6.33	128.67	120.44
4	J	835	VAL	C-N-CA	6.33	128.67	120.44
6	T	48	THR	CA-C-O	6.33	128.26	121.55
4	J	43	ASN	CA-C-N	6.32	129.38	120.28
4	J	43	ASN	C-N-CA	6.32	129.38	120.28
1	A	80	TYR	N-CA-C	-6.32	104.02	111.03
3	B	557	LEU	N-CA-C	-6.32	104.39	111.28
4	C	367	VAL	CA-C-N	-6.32	114.86	123.14
4	C	367	VAL	C-N-CA	-6.32	114.86	123.14
5	N	123	GLU	N-CA-C	6.32	117.96	111.14
7	Q	292	LEU	N-CA-C	6.31	118.97	111.33
1	A	158	THR	CA-C-N	6.31	131.72	122.94
1	A	158	THR	C-N-CA	6.31	131.72	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	226	PRO	CA-C-N	6.31	128.65	120.44
7	G	226	PRO	C-N-CA	6.31	128.65	120.44
8	Z	141	GLN	N-CA-C	-6.31	104.32	111.07
1	A	20	LYS	N-CA-C	-6.31	106.22	114.04
7	K	222	GLY	N-CA-C	-6.31	98.23	113.18
7	Q	871	ALA	N-CA-C	6.31	117.95	111.14
8	S	21	ASN	N-CA-C	-6.31	104.50	111.82
1	H	42	THR	CA-C-N	6.31	129.78	120.95
1	H	42	THR	C-N-CA	6.31	129.78	120.95
7	Q	222	GLY	N-CA-C	-6.31	98.23	113.18
1	H	116	THR	CA-C-N	6.30	131.75	122.99
1	H	116	THR	C-N-CA	6.30	131.75	122.99
1	H	487	LYS	O-C-N	6.30	130.41	123.22
4	J	504	GLY	N-CA-C	6.30	128.11	113.18
7	G	279	GLY	N-CA-C	-6.30	103.06	114.46
1	H	80	TYR	N-CA-C	-6.30	104.04	111.03
1	H	604	ILE	N-CA-C	-6.30	104.36	110.72
3	I	557	LEU	N-CA-C	-6.30	104.42	111.28
4	J	414	ILE	CA-C-O	-6.30	113.62	120.67
8	U	141	GLN	N-CA-C	-6.29	104.33	111.07
1	H	519	ASP	CA-C-N	-6.29	114.05	122.42
1	H	519	ASP	C-N-CA	-6.29	114.05	122.42
1	H	578	VAL	CA-C-O	-6.29	114.50	121.23
1	A	578	VAL	CA-C-O	-6.29	114.50	121.23
4	J	629	GLY	N-CA-C	-6.29	106.01	115.32
1	A	42	THR	CA-C-N	6.28	129.75	120.95
1	A	42	THR	C-N-CA	6.28	129.75	120.95
3	B	842	MET	CA-C-N	6.28	128.61	120.44
3	B	842	MET	C-N-CA	6.28	128.61	120.44
4	C	835	VAL	CA-C-N	6.28	128.61	120.44
4	C	835	VAL	C-N-CA	6.28	128.61	120.44
4	C	629	GLY	N-CA-C	-6.28	106.02	115.32
1	A	487	LYS	O-C-N	6.27	130.37	123.22
1	H	173	SER	N-CA-C	6.27	113.86	108.22
4	J	153	LYS	N-CA-C	-6.27	104.36	111.07
1	A	116	THR	CA-C-N	6.27	131.71	122.99
1	A	116	THR	C-N-CA	6.27	131.71	122.99
7	G	369	SER	N-CA-C	6.27	118.92	111.71
3	I	842	MET	CA-C-N	6.27	128.59	120.44
3	I	842	MET	C-N-CA	6.27	128.59	120.44
3	B	532	GLU	N-CA-C	6.27	117.77	111.07
4	C	504	GLY	N-CA-C	6.27	128.03	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	173	SER	N-CA-C	6.26	113.86	108.22
5	D	123	GLU	N-CA-C	6.26	117.91	111.14
4	J	567	ILE	CA-C-O	6.26	124.01	119.25
1	A	804	LEU	CA-C-N	6.26	133.49	121.54
1	A	804	LEU	C-N-CA	6.26	133.49	121.54
8	Z	141	GLN	CA-C-N	6.26	128.44	120.56
8	Z	141	GLN	C-N-CA	6.26	128.44	120.56
3	I	743	ALA	N-CA-C	-6.25	98.79	109.24
4	C	567	ILE	CA-C-O	6.25	124.00	119.25
8	L	21	ASN	N-CA-C	-6.25	104.57	111.82
1	H	297	LEU	N-CA-C	-6.25	99.80	109.24
3	B	743	ALA	N-CA-C	-6.25	98.80	109.24
1	H	804	LEU	CA-C-N	6.25	133.47	121.54
1	H	804	LEU	C-N-CA	6.25	133.47	121.54
4	C	153	LYS	N-CA-C	-6.25	104.39	111.07
3	I	532	GLU	N-CA-C	6.24	117.75	111.07
3	B	110	LEU	N-CA-C	-6.24	104.58	111.82
1	H	249	TYR	CA-C-N	6.24	133.45	121.54
1	H	249	TYR	C-N-CA	6.24	133.45	121.54
8	U	141	GLN	CA-C-N	6.24	128.42	120.56
8	U	141	GLN	C-N-CA	6.24	128.42	120.56
1	A	239	ALA	CA-C-N	6.24	133.45	121.54
1	A	239	ALA	C-N-CA	6.24	133.45	121.54
6	R	52	ASN	N-CA-C	6.24	118.46	107.61
1	H	239	ALA	CA-C-N	6.23	133.45	121.54
1	H	239	ALA	C-N-CA	6.23	133.45	121.54
1	H	438	LYS	N-CA-C	-6.23	98.22	108.76
7	K	871	ALA	N-CA-C	6.23	117.87	111.14
7	Q	169	CYS	N-CA-C	-6.23	104.41	111.07
1	H	666	LYS	N-CA-C	-6.23	104.49	111.28
8	L	38	VAL	CA-C-N	6.22	128.53	120.44
8	L	38	VAL	C-N-CA	6.22	128.53	120.44
1	A	297	LEU	N-CA-C	-6.22	99.85	109.24
1	A	666	LYS	N-CA-C	-6.22	104.50	111.28
8	S	115	LEU	CA-C-N	6.22	128.62	120.28
8	S	115	LEU	C-N-CA	6.22	128.62	120.28
7	Q	169	CYS	O-C-N	6.22	128.47	122.07
1	A	438	LYS	N-CA-C	-6.22	98.25	108.76
7	K	169	CYS	N-CA-C	-6.21	104.42	111.07
3	B	894	THR	CA-C-N	6.21	127.43	120.66
3	B	894	THR	C-N-CA	6.21	127.43	120.66
3	I	784	VAL	CA-C-O	-6.21	113.01	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	164	ASP	N-CA-C	-6.21	105.68	113.20
8	S	38	VAL	CA-C-N	6.21	128.51	120.44
8	S	38	VAL	C-N-CA	6.21	128.51	120.44
3	B	784	VAL	CA-C-O	-6.21	113.02	120.78
4	C	602	ASP	N-CA-C	-6.21	100.20	109.83
3	I	894	THR	CA-C-N	6.21	127.43	120.66
3	I	894	THR	C-N-CA	6.21	127.43	120.66
7	K	169	CYS	O-C-N	6.21	128.47	122.07
4	C	569	LYS	N-CA-C	-6.21	104.43	111.07
1	A	1189	GLY	N-CA-C	-6.21	106.76	115.32
3	I	262	ARG	N-CA-C	-6.20	104.43	111.07
5	D	101	GLU	CA-C-N	6.20	128.96	120.46
5	D	101	GLU	C-N-CA	6.20	128.96	120.46
7	G	871	ALA	N-CA-C	6.20	117.84	111.14
7	K	750	GLU	N-CA-C	-6.20	99.62	109.23
3	I	110	LEU	N-CA-C	-6.20	104.63	111.82
7	K	308	VAL	CA-C-N	-6.20	114.25	122.99
7	K	308	VAL	C-N-CA	-6.20	114.25	122.99
7	Q	308	VAL	CA-C-N	-6.20	114.25	122.99
7	Q	308	VAL	C-N-CA	-6.20	114.25	122.99
1	A	249	TYR	CA-C-N	6.20	133.38	121.54
1	A	249	TYR	C-N-CA	6.20	133.38	121.54
7	G	624	GLN	N-CA-C	-6.20	100.22	109.83
1	A	662	LEU	CA-C-N	6.20	129.09	120.29
1	A	662	LEU	C-N-CA	6.20	129.09	120.29
8	L	115	LEU	CA-C-N	6.20	128.58	120.28
8	L	115	LEU	C-N-CA	6.20	128.58	120.28
3	B	262	ARG	N-CA-C	-6.19	104.44	111.07
3	I	460	VAL	CA-C-N	6.19	128.49	120.44
3	I	460	VAL	C-N-CA	6.19	128.49	120.44
1	A	800	PRO	CA-C-N	6.19	133.12	121.97
1	A	800	PRO	C-N-CA	6.19	133.12	121.97
1	H	800	PRO	CA-C-N	6.19	133.12	121.97
1	H	800	PRO	C-N-CA	6.19	133.12	121.97
6	T	68	VAL	N-CA-C	6.19	117.03	107.99
4	C	718	GLY	CA-C-N	6.19	128.57	120.28
4	C	718	GLY	C-N-CA	6.19	128.57	120.28
4	C	727	VAL	CA-C-N	6.19	128.57	120.28
4	C	727	VAL	C-N-CA	6.19	128.57	120.28
7	G	750	GLU	N-CA-C	-6.19	99.64	109.23
4	J	569	LYS	N-CA-C	-6.19	104.45	111.07
4	J	727	VAL	CA-C-N	6.19	128.57	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	727	VAL	C-N-CA	6.19	128.57	120.28
8	L	46	LYS	CA-C-N	-6.19	112.48	120.65
8	L	46	LYS	C-N-CA	-6.19	112.48	120.65
1	H	1189	GLY	N-CA-C	-6.18	106.79	115.32
7	Q	750	GLU	N-CA-C	-6.18	99.64	109.23
3	B	433	ALA	CA-C-N	6.18	128.48	120.44
3	B	433	ALA	C-N-CA	6.18	128.48	120.44
7	K	624	GLN	N-CA-C	-6.18	100.25	109.83
4	J	602	ASP	N-CA-C	-6.18	100.25	109.83
4	J	718	GLY	CA-C-N	6.18	128.56	120.28
4	J	718	GLY	C-N-CA	6.18	128.56	120.28
5	N	101	GLU	CA-C-N	6.18	128.93	120.46
5	N	101	GLU	C-N-CA	6.18	128.93	120.46
3	B	349	LEU	CA-C-N	6.18	128.56	120.28
3	B	349	LEU	C-N-CA	6.18	128.56	120.28
3	B	460	VAL	CA-C-N	6.18	128.47	120.44
3	B	460	VAL	C-N-CA	6.18	128.47	120.44
3	B	321	VAL	N-CA-C	-6.17	104.32	110.62
6	M	171	GLU	CA-C-N	6.17	128.84	120.38
6	M	171	GLU	C-N-CA	6.17	128.84	120.38
7	Q	624	GLN	N-CA-C	-6.17	100.26	109.83
8	S	38	VAL	N-CA-C	-6.17	104.48	110.72
8	S	46	LYS	CA-C-N	-6.17	112.50	120.65
8	S	46	LYS	C-N-CA	-6.17	112.50	120.65
7	G	746	GLY	CA-C-O	-6.17	115.06	121.91
1	H	662	LEU	CA-C-N	6.17	129.05	120.29
1	H	662	LEU	C-N-CA	6.17	129.05	120.29
3	I	349	LEU	CA-C-N	6.17	128.54	120.28
3	I	349	LEU	C-N-CA	6.17	128.54	120.28
6	R	57	GLN	N-CA-C	-6.17	99.15	108.96
7	Q	746	GLY	CA-C-O	-6.17	115.06	121.91
6	T	171	GLU	CA-C-N	6.17	128.83	120.38
6	T	171	GLU	C-N-CA	6.17	128.83	120.38
3	I	412	MET	N-CA-C	6.16	115.58	108.49
1	A	267	ASN	N-CA-C	-6.16	99.32	108.99
4	C	716	ALA	N-CA-C	-6.16	104.56	111.28
4	C	572	ARG	N-CA-C	-6.16	99.94	109.24
8	L	38	VAL	N-CA-C	-6.16	104.50	110.72
3	I	433	ALA	CA-C-N	6.16	128.45	120.44
3	I	433	ALA	C-N-CA	6.16	128.45	120.44
8	U	67	VAL	N-CA-C	-6.16	98.76	107.75
1	A	611	VAL	O-C-N	6.16	128.17	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	746	GLY	CA-C-O	-6.15	115.08	121.91
4	C	626	GLU	N-CA-C	-6.15	104.58	111.28
4	J	378	TYR	O-C-N	6.15	131.19	123.19
8	S	34	THR	N-CA-C	-6.15	107.61	114.62
4	J	145	VAL	CA-C-N	6.15	129.02	120.29
4	J	145	VAL	C-N-CA	6.15	129.02	120.29
4	J	716	ALA	N-CA-C	-6.15	104.58	111.28
1	A	458	TYR	N-CA-C	-6.15	100.18	109.95
7	K	68	GLU	N-CA-C	-6.15	104.58	111.28
3	I	321	VAL	N-CA-C	-6.15	104.35	110.62
8	Z	67	VAL	N-CA-C	-6.14	98.78	107.75
7	Q	646	TYR	N-CA-C	-6.14	99.70	109.23
3	I	434	ASP	CA-C-N	6.14	128.30	120.56
3	I	434	ASP	C-N-CA	6.14	128.30	120.56
4	C	145	VAL	CA-C-N	6.14	129.01	120.29
4	C	145	VAL	C-N-CA	6.14	129.01	120.29
7	Q	208	ARG	CA-C-O	6.14	127.02	120.70
4	C	738	LEU	CA-C-N	6.14	128.42	120.44
4	C	738	LEU	C-N-CA	6.14	128.42	120.44
7	G	175	LYS	CA-C-N	6.13	129.11	120.28
7	G	175	LYS	C-N-CA	6.13	129.11	120.28
1	H	611	VAL	O-C-N	6.13	128.15	121.83
1	H	35	LEU	N-CA-C	-6.13	98.91	108.90
1	H	267	ASN	N-CA-C	-6.13	99.36	108.99
4	J	572	ARG	N-CA-C	-6.13	99.98	109.24
1	H	78	TRP	CA-C-N	6.12	130.82	122.19
1	H	78	TRP	C-N-CA	6.12	130.82	122.19
4	J	738	LEU	CA-C-N	6.12	128.40	120.44
4	J	738	LEU	C-N-CA	6.12	128.40	120.44
3	B	434	ASP	CA-C-N	6.12	128.27	120.56
3	B	434	ASP	C-N-CA	6.12	128.27	120.56
8	Z	19	LEU	N-CA-C	-6.12	99.93	109.72
1	H	458	TYR	N-CA-C	-6.12	100.22	109.95
7	K	208	ARG	CA-C-O	6.12	127.00	120.70
1	A	533	GLY	N-CA-C	-6.12	99.59	111.03
8	Z	32	ASP	N-CA-C	-6.12	99.93	109.72
4	J	84	PHE	N-CA-C	-6.12	100.04	109.52
5	N	55	ARG	N-CA-C	-6.12	100.54	110.20
4	C	361	ASN	N-CA-C	-6.11	101.22	110.39
7	G	679	VAL	N-CA-C	6.11	116.68	107.75
7	K	646	TYR	N-CA-C	-6.11	99.75	109.23
3	I	132	ARG	CA-C-N	6.11	126.77	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	132	ARG	C-N-CA	6.11	126.77	119.98
4	J	626	GLU	N-CA-C	-6.11	104.62	111.28
3	B	815	PHE	CA-C-N	6.11	127.33	120.42
3	B	815	PHE	C-N-CA	6.11	127.33	120.42
1	A	35	LEU	N-CA-C	-6.11	98.94	108.90
3	I	412	MET	CA-C-O	6.11	124.59	120.19
7	Q	68	GLU	N-CA-C	-6.11	104.62	111.28
3	B	90	LYS	N-CA-C	-6.11	104.70	111.36
7	K	54	LEU	N-CA-C	-6.11	104.70	111.36
8	U	19	LEU	N-CA-C	-6.10	99.95	109.72
8	U	32	ASP	N-CA-C	-6.10	99.95	109.72
8	Z	18	ILE	N-CA-C	-6.10	98.74	107.77
7	Q	679	VAL	N-CA-C	6.10	116.66	107.75
7	K	679	VAL	N-CA-C	6.10	116.65	107.75
6	R	45	THR	N-CA-C	-6.10	106.20	113.21
1	H	533	GLY	N-CA-C	-6.09	99.63	111.03
4	C	84	PHE	N-CA-C	-6.09	100.08	109.52
7	K	732	VAL	N-CA-C	-6.09	99.64	108.17
4	J	361	ASN	N-CA-C	-6.09	101.25	110.39
7	G	732	VAL	N-CA-C	-6.09	99.64	108.17
6	F	132	GLU	CA-C-N	6.09	132.21	121.80
6	F	132	GLU	C-N-CA	6.09	132.21	121.80
4	C	378	TYR	O-C-N	6.09	131.10	123.19
7	K	261	ASN	N-CA-C	6.09	118.63	110.35
7	Q	261	ASN	N-CA-C	6.09	118.63	110.35
7	Q	732	VAL	N-CA-C	-6.09	99.65	108.17
1	A	18	HIS	CA-C-N	6.09	125.78	119.82
1	A	18	HIS	C-N-CA	6.09	125.78	119.82
4	C	824	TYR	CA-C-O	-6.09	111.82	120.16
8	U	18	ILE	N-CA-C	-6.09	98.76	107.77
8	L	34	THR	N-CA-C	-6.08	107.68	114.62
6	P	132	GLU	CA-C-N	6.08	132.21	121.80
6	P	132	GLU	C-N-CA	6.08	132.21	121.80
8	Z	31	TYR	N-CA-C	-6.08	104.57	111.14
3	I	90	LYS	N-CA-C	-6.08	104.73	111.36
7	Q	54	LEU	N-CA-C	-6.08	104.73	111.36
3	B	231	VAL	CA-C-N	6.08	129.04	120.28
3	B	231	VAL	C-N-CA	6.08	129.04	120.28
1	A	30	ASN	N-CA-C	-6.08	105.72	113.01
5	D	55	ARG	N-CA-C	-6.08	100.60	110.20
1	H	30	ASN	N-CA-C	-6.08	105.72	113.01
5	N	62	GLU	CA-C-N	6.08	133.15	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	62	GLU	C-N-CA	6.08	133.15	121.54
3	B	132	ARG	CA-C-N	6.08	126.72	119.98
3	B	132	ARG	C-N-CA	6.08	126.72	119.98
3	B	460	VAL	O-C-N	6.08	127.86	121.91
4	J	824	TYR	CA-C-O	-6.07	111.84	120.16
7	Q	685	GLU	N-CA-C	-6.07	98.38	108.34
1	H	18	HIS	CA-C-N	6.07	125.77	119.82
1	H	18	HIS	C-N-CA	6.07	125.77	119.82
3	I	456	LYS	CA-C-N	6.07	128.41	120.28
3	I	456	LYS	C-N-CA	6.07	128.41	120.28
1	A	635	PRO	N-CA-C	-6.07	99.97	112.47
3	B	49	ASP	CA-C-N	6.07	128.77	120.46
3	B	49	ASP	C-N-CA	6.07	128.77	120.46
4	C	278	ALA	N-CA-C	-6.07	99.47	108.99
5	D	62	GLU	CA-C-N	6.07	133.12	121.54
5	D	62	GLU	C-N-CA	6.07	133.12	121.54
7	K	782	GLU	N-CA-C	-6.07	104.02	112.45
6	P	52	ASN	N-CA-C	-6.06	99.52	109.40
7	Q	782	GLU	N-CA-C	-6.06	104.02	112.45
6	F	52	ASN	N-CA-C	-6.06	99.52	109.40
1	A	78	TRP	CA-C-N	6.06	130.73	122.19
1	A	78	TRP	C-N-CA	6.06	130.73	122.19
7	G	685	GLU	N-CA-C	-6.06	98.41	108.34
7	G	208	ARG	N-CA-C	6.05	119.14	111.69
7	G	224	LYS	N-CA-C	6.05	120.76	112.04
1	H	806	THR	N-CA-C	-6.05	104.24	111.69
3	I	258	ALA	N-CA-C	6.05	117.88	111.28
8	Z	36	PRO	CA-C-N	6.05	133.10	121.54
8	Z	36	PRO	C-N-CA	6.05	133.10	121.54
7	K	685	GLU	N-CA-C	-6.05	98.41	108.34
4	J	278	ALA	N-CA-C	-6.05	99.49	108.99
7	G	372	SER	CA-C-N	6.05	133.10	121.54
7	G	372	SER	C-N-CA	6.05	133.10	121.54
4	J	573	LEU	CA-C-N	6.05	132.02	122.94
4	J	573	LEU	C-N-CA	6.05	132.02	122.94
7	Q	118	ASP	CA-C-O	6.05	126.83	120.42
1	H	635	PRO	N-CA-C	-6.05	100.01	112.47
1	H	376	ALA	CA-C-N	6.05	131.42	122.71
1	H	376	ALA	C-N-CA	6.05	131.42	122.71
3	B	456	LYS	CA-C-N	6.04	128.38	120.28
3	B	456	LYS	C-N-CA	6.04	128.38	120.28
3	B	256	GLU	CA-C-O	6.04	126.91	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	815	PHE	CA-C-N	6.04	127.25	120.42
3	I	815	PHE	C-N-CA	6.04	127.25	120.42
1	A	376	ALA	CA-C-N	6.04	131.41	122.71
1	A	376	ALA	C-N-CA	6.04	131.41	122.71
8	U	36	PRO	CA-C-N	6.04	133.08	121.54
8	U	36	PRO	C-N-CA	6.04	133.08	121.54
1	A	156	ASP	N-CA-C	-6.04	104.43	112.94
3	B	258	ALA	N-CA-C	6.04	117.86	111.28
3	I	231	VAL	CA-C-N	6.04	128.98	120.28
3	I	231	VAL	C-N-CA	6.04	128.98	120.28
4	J	381	MET	CA-C-N	6.04	128.87	120.29
4	J	381	MET	C-N-CA	6.04	128.87	120.29
8	U	31	TYR	N-CA-C	-6.04	104.62	111.14
4	C	573	LEU	CA-C-N	6.04	131.99	122.94
4	C	573	LEU	C-N-CA	6.04	131.99	122.94
7	G	782	GLU	N-CA-C	-6.04	104.06	112.45
3	I	73	LEU	CA-C-N	6.03	128.65	120.38
3	I	73	LEU	C-N-CA	6.03	128.65	120.38
8	Z	76	TYR	CA-C-O	6.03	126.87	120.36
4	J	352	GLU	N-CA-C	-6.03	97.95	110.80
4	J	402	GLU	N-CA-C	-6.03	99.97	108.96
7	G	396	VAL	N-CA-C	-6.03	104.63	110.72
6	P	106	VAL	N-CA-C	6.03	116.77	110.62
3	I	49	ASP	CA-C-N	6.03	128.72	120.46
3	I	49	ASP	C-N-CA	6.03	128.72	120.46
6	P	81	TYR	N-CA-C	-6.03	105.58	113.17
1	H	156	ASP	N-CA-C	-6.03	104.44	112.94
1	H	251	ASN	CA-C-N	6.03	132.81	121.97
1	H	251	ASN	C-N-CA	6.03	132.81	121.97
3	I	256	GLU	CA-C-O	6.03	126.88	119.05
3	I	460	VAL	O-C-N	6.03	127.82	121.91
4	C	352	GLU	N-CA-C	-6.02	97.97	110.80
8	L	143	VAL	N-CA-C	-6.02	104.64	110.42
4	J	573	LEU	N-CA-C	-6.02	99.89	109.59
8	U	76	TYR	CA-C-O	6.02	126.86	120.36
3	B	73	LEU	CA-C-N	6.02	128.63	120.38
3	B	73	LEU	C-N-CA	6.02	128.63	120.38
7	G	805	VAL	O-C-N	6.02	127.81	121.91
5	D	60	PRO	N-CA-C	-6.02	101.03	111.32
1	A	251	ASN	CA-C-N	6.02	132.80	121.97
1	A	251	ASN	C-N-CA	6.02	132.80	121.97
4	C	381	MET	CA-C-N	6.01	128.83	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	381	MET	C-N-CA	6.01	128.83	120.29
8	L	129	VAL	N-CA-C	-6.01	99.50	108.46
6	T	90	PHE	CA-C-N	-6.01	114.61	122.37
6	T	90	PHE	C-N-CA	-6.01	114.61	122.37
1	A	599	PHE	N-CA-C	6.01	117.50	111.07
6	F	81	TYR	N-CA-C	-6.01	105.60	113.17
5	N	60	PRO	N-CA-C	-6.01	101.05	111.32
1	H	599	PHE	N-CA-C	6.01	117.50	111.07
1	H	607	LYS	CA-C-N	6.00	131.27	122.08
1	H	607	LYS	C-N-CA	6.00	131.27	122.08
1	H	744	GLU	N-CA-C	-6.00	104.80	111.71
3	I	436	LEU	N-CA-C	-6.00	104.65	111.07
1	A	806	THR	N-CA-C	-6.00	104.31	111.69
4	C	402	GLU	N-CA-C	-6.00	100.02	108.96
4	C	573	LEU	N-CA-C	-6.00	99.93	109.59
6	R	54	GLU	N-CA-C	-6.00	99.93	109.23
1	A	79	ASN	CA-C-O	-6.00	113.76	120.54
3	B	181	PHE	CA-C-N	6.00	132.99	121.54
3	B	181	PHE	C-N-CA	6.00	132.99	121.54
1	H	765	HIS	N-CA-C	-5.99	105.93	113.18
3	I	181	PHE	CA-C-N	5.99	132.99	121.54
3	I	181	PHE	C-N-CA	5.99	132.99	121.54
5	N	26	ARG	CA-C-N	5.99	130.19	120.60
5	N	26	ARG	C-N-CA	5.99	130.19	120.60
1	A	789	ASP	N-CA-C	-5.99	89.64	107.37
6	F	106	VAL	N-CA-C	5.99	116.73	110.62
7	G	531	TYR	N-CA-C	-5.99	104.83	111.36
5	N	68	LEU	CA-C-N	-5.99	113.72	122.58
5	N	68	LEU	C-N-CA	-5.99	113.72	122.58
1	A	765	HIS	N-CA-C	-5.99	105.93	113.18
7	G	371	ILE	N-CA-C	-5.99	99.54	108.46
4	J	812	LYS	CA-C-N	5.99	128.31	120.28
4	J	812	LYS	C-N-CA	5.99	128.31	120.28
4	C	154	ASP	N-CA-C	-5.99	93.77	107.48
4	C	812	LYS	CA-C-N	5.99	128.30	120.28
4	C	812	LYS	C-N-CA	5.99	128.30	120.28
5	D	26	ARG	CA-C-N	5.99	130.18	120.60
5	D	26	ARG	C-N-CA	5.99	130.18	120.60
7	K	118	ASP	CA-C-O	5.99	126.77	120.42
7	K	255	ILE	N-CA-C	5.99	116.17	110.42
7	Q	711	ALA	N-CA-C	-5.99	100.43	109.95
8	S	143	VAL	N-CA-C	-5.99	104.67	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	448	ASN	CA-C-N	5.98	128.58	120.38
3	I	448	ASN	C-N-CA	5.98	128.58	120.38
1	H	29	HIS	N-CA-C	-5.98	105.90	112.72
4	J	143	HIS	CA-C-N	5.98	129.33	120.90
4	J	143	HIS	C-N-CA	5.98	129.33	120.90
8	S	129	VAL	N-CA-C	-5.98	99.55	108.46
3	B	436	LEU	N-CA-C	-5.98	104.67	111.07
7	K	711	ALA	N-CA-C	-5.98	100.45	109.95
3	I	360	LEU	CA-C-N	5.98	128.89	120.28
3	I	360	LEU	C-N-CA	5.98	128.89	120.28
1	A	607	LYS	CA-C-N	5.98	131.22	122.08
1	A	607	LYS	C-N-CA	5.98	131.22	122.08
4	J	818	LEU	CA-C-O	-5.98	114.54	120.70
1	A	720	MET	N-CA-C	-5.97	104.85	111.36
5	D	68	LEU	CA-C-N	-5.97	113.74	122.58
5	D	68	LEU	C-N-CA	-5.97	113.74	122.58
7	G	207	ASP	CA-C-N	5.97	130.79	120.58
7	G	207	ASP	C-N-CA	5.97	130.79	120.58
6	P	34	LEU	N-CA-C	5.97	117.46	111.07
3	B	150	PRO	N-CA-C	-5.97	104.60	114.75
4	J	90	GLU	N-CA-C	-5.97	99.51	109.24
1	H	789	ASP	N-CA-C	-5.97	89.71	107.37
1	A	29	HIS	N-CA-C	-5.97	105.92	112.72
4	C	90	GLU	N-CA-C	-5.96	99.52	109.24
7	Q	805	VAL	O-C-N	5.96	127.75	121.91
7	G	168	LYS	N-CA-C	-5.96	103.75	111.02
1	H	720	MET	N-CA-C	-5.96	104.86	111.36
4	J	154	ASP	N-CA-C	-5.96	93.83	107.48
4	J	410	SER	N-CA-C	-5.96	98.10	110.80
1	A	744	GLU	N-CA-C	-5.96	104.86	111.71
3	B	448	ASN	CA-C-N	5.96	128.54	120.38
3	B	448	ASN	C-N-CA	5.96	128.54	120.38
5	N	11	LYS	N-CA-C	5.96	119.38	111.75
4	C	410	SER	N-CA-C	-5.96	98.11	110.80
4	C	143	HIS	CA-C-N	5.96	129.30	120.90
4	C	143	HIS	C-N-CA	5.96	129.30	120.90
3	B	258	ALA	CA-C-N	5.96	128.26	120.28
3	B	258	ALA	C-N-CA	5.96	128.26	120.28
3	B	360	LEU	CA-C-N	5.96	128.85	120.28
3	B	360	LEU	C-N-CA	5.96	128.85	120.28
1	H	79	ASN	CA-C-O	-5.95	113.81	120.54
7	G	711	ALA	N-CA-C	-5.95	100.49	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	M	90	PHE	CA-C-N	-5.95	114.69	122.37
6	M	90	PHE	C-N-CA	-5.95	114.69	122.37
3	I	150	PRO	N-CA-C	-5.95	104.63	114.75
3	B	306	LYS	CA-C-N	5.95	129.56	120.82
3	B	306	LYS	C-N-CA	5.95	129.56	120.82
7	K	805	VAL	O-C-N	5.95	127.74	121.91
4	J	277	VAL	N-CA-C	-5.95	99.23	108.44
3	I	559	GLY	N-CA-C	5.94	119.39	112.50
7	G	120	TYR	CA-C-O	5.94	126.72	120.42
3	B	559	GLY	N-CA-C	5.94	119.39	112.50
7	G	135	THR	CA-C-O	5.94	126.84	120.55
1	H	310	HIS	CA-C-N	5.94	128.51	120.44
1	H	310	HIS	C-N-CA	5.94	128.51	120.44
1	A	729	MET	N-CA-C	-5.94	107.27	114.75
6	R	113	GLU	N-CA-C	-5.94	100.82	110.20
1	A	310	HIS	CA-C-N	5.93	128.51	120.44
1	A	310	HIS	C-N-CA	5.93	128.51	120.44
5	D	11	LYS	N-CA-C	5.93	119.35	111.75
1	H	75	ILE	N-CA-C	-5.93	99.20	107.80
7	Q	255	ILE	N-CA-C	5.93	116.12	110.42
6	F	144	GLY	CA-C-N	5.93	128.82	120.28
6	F	144	GLY	C-N-CA	5.93	128.82	120.28
7	K	54	LEU	CA-C-N	5.93	128.15	120.56
7	K	54	LEU	C-N-CA	5.93	128.15	120.56
6	M	80	HIS	N-CA-C	5.93	123.44	110.80
4	J	707	GLY	CA-C-O	-5.93	117.25	121.88
4	J	721	ARG	N-CA-C	5.93	117.75	111.28
1	A	75	ILE	N-CA-C	-5.93	99.20	107.80
4	C	134	CYS	N-CA-C	-5.93	97.56	107.99
7	Q	861	SER	N-CA-C	-5.93	105.23	112.88
6	T	80	HIS	N-CA-C	5.93	123.43	110.80
8	Z	80	ILE	O-C-N	5.93	129.58	123.18
3	B	421	MET	CA-C-N	5.93	128.15	120.44
3	B	421	MET	C-N-CA	5.93	128.15	120.44
4	C	277	VAL	N-CA-C	-5.93	99.25	108.44
3	B	401	THR	CA-C-N	5.92	128.22	120.28
3	B	401	THR	C-N-CA	5.92	128.22	120.28
1	A	335	TYR	N-CA-C	-5.92	100.30	109.24
2	E	266	PRO	O-C-N	5.92	123.93	121.15
4	C	721	ARG	N-CA-C	5.92	117.73	111.28
3	I	258	ALA	CA-C-N	5.91	128.21	120.28
3	I	258	ALA	C-N-CA	5.91	128.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	U	118	MET	N-CA-C	5.91	119.68	112.23
1	A	744	GLU	CA-C-N	5.91	128.20	120.28
1	A	744	GLU	C-N-CA	5.91	128.20	120.28
6	P	144	GLY	CA-C-N	5.91	128.79	120.28
6	P	144	GLY	C-N-CA	5.91	128.79	120.28
8	U	80	ILE	O-C-N	5.91	129.56	123.18
3	B	428	ASN	CA-C-N	5.91	128.47	120.38
3	B	428	ASN	C-N-CA	5.91	128.47	120.38
7	K	861	SER	N-CA-C	-5.91	105.26	112.88
7	Q	661	PHE	N-CA-C	-5.91	98.89	108.52
7	K	686	ALA	CA-C-N	5.91	132.82	121.54
7	K	686	ALA	C-N-CA	5.91	132.82	121.54
1	H	335	TYR	N-CA-C	-5.90	100.33	109.24
6	F	55	THR	N-CA-C	-5.90	100.09	109.59
8	Z	118	MET	N-CA-C	5.90	119.67	112.23
1	H	330	GLY	CA-C-N	5.90	130.76	122.08
1	H	330	GLY	C-N-CA	5.90	130.76	122.08
8	U	71	SER	N-CA-C	-5.90	100.34	109.14
4	J	134	CYS	N-CA-C	-5.90	97.61	107.99
1	A	330	GLY	CA-C-N	5.90	130.75	122.08
1	A	330	GLY	C-N-CA	5.90	130.75	122.08
1	H	729	MET	N-CA-C	-5.90	107.32	114.75
4	J	44	HIS	CA-C-N	5.90	128.46	120.38
4	J	44	HIS	C-N-CA	5.90	128.46	120.38
3	I	306	LYS	CA-C-N	5.90	129.49	120.82
3	I	306	LYS	C-N-CA	5.90	129.49	120.82
3	I	428	ASN	CA-C-N	5.90	128.46	120.38
3	I	428	ASN	C-N-CA	5.90	128.46	120.38
4	C	44	HIS	CA-C-N	5.89	128.46	120.38
4	C	44	HIS	C-N-CA	5.89	128.46	120.38
7	K	154	SER	CA-C-N	5.89	128.79	120.42
7	K	154	SER	C-N-CA	5.89	128.79	120.42
7	G	631	LYS	N-CA-C	-5.89	99.18	108.14
7	G	861	SER	N-CA-C	-5.89	105.28	112.88
6	P	55	THR	N-CA-C	-5.89	100.10	109.59
7	G	62	GLY	CA-C-N	5.89	128.17	120.28
7	G	62	GLY	C-N-CA	5.89	128.17	120.28
7	G	434	THR	N-CA-C	5.89	117.37	111.07
7	K	263	HIS	N-CA-C	-5.89	97.58	108.24
7	K	661	PHE	N-CA-C	-5.89	98.92	108.52
7	Q	686	ALA	CA-C-N	5.89	132.78	121.54
7	Q	686	ALA	C-N-CA	5.89	132.78	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	R	23	VAL	N-CA-C	-5.88	100.21	108.80
8	L	126	ASP	CA-C-N	-5.88	111.94	120.29
8	L	126	ASP	C-N-CA	-5.88	111.94	120.29
7	Q	95	MET	N-CA-C	5.88	119.71	112.54
3	I	889	ASN	N-CA-C	-5.88	103.34	111.28
3	B	889	ASN	N-CA-C	-5.88	103.34	111.28
4	C	782	GLN	N-CA-C	-5.88	98.28	110.80
7	G	29	GLN	CA-C-N	5.88	130.00	120.60
7	G	29	GLN	C-N-CA	5.88	130.00	120.60
7	K	631	LYS	N-CA-C	-5.88	99.20	108.14
7	Q	54	LEU	CA-C-N	5.88	128.08	120.56
7	Q	54	LEU	C-N-CA	5.88	128.08	120.56
4	C	154	ASP	CA-C-N	5.88	130.53	121.19
4	C	154	ASP	C-N-CA	5.88	130.53	121.19
7	K	95	MET	N-CA-C	5.88	119.71	112.54
4	J	782	GLN	N-CA-C	-5.88	98.28	110.80
5	N	115	GLU	N-CA-C	-5.88	104.79	111.14
6	P	121	TRP	CA-C-N	5.88	131.29	123.00
6	P	121	TRP	C-N-CA	5.88	131.29	123.00
7	Q	263	HIS	N-CA-C	-5.88	97.60	108.24
6	F	121	TRP	CA-C-N	5.88	131.28	123.00
6	F	121	TRP	C-N-CA	5.88	131.28	123.00
7	G	686	ALA	CA-C-N	5.88	132.76	121.54
7	G	686	ALA	C-N-CA	5.88	132.76	121.54
8	Z	71	SER	N-CA-C	-5.88	100.39	109.14
7	G	283	LYS	CA-C-N	5.87	128.15	120.28
7	G	283	LYS	C-N-CA	5.87	128.15	120.28
8	Z	140	GLN	CA-C-N	5.87	128.07	120.44
8	Z	140	GLN	C-N-CA	5.87	128.07	120.44
3	I	401	THR	CA-C-N	5.87	128.15	120.28
3	I	401	THR	C-N-CA	5.87	128.15	120.28
7	Q	154	SER	CA-C-N	5.87	128.76	120.42
7	Q	154	SER	C-N-CA	5.87	128.76	120.42
4	C	476	LEU	N-CA-C	-5.87	100.13	109.76
7	G	661	PHE	N-CA-C	-5.87	98.95	108.52
6	P	130	LEU	O-C-N	5.87	126.64	121.18
7	Q	279	GLY	N-CA-C	-5.87	99.26	113.18
4	J	476	LEU	N-CA-C	-5.87	100.13	109.76
2	O	266	PRO	O-C-N	5.87	123.91	121.15
7	Q	608	THR	CA-C-N	5.87	128.14	120.28
7	Q	608	THR	C-N-CA	5.87	128.14	120.28
8	S	126	ASP	CA-C-N	-5.87	111.96	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	S	126	ASP	C-N-CA	-5.87	111.96	120.29
6	F	130	LEU	O-C-N	5.87	126.63	121.18
7	G	181	ALA	N-CA-C	5.87	117.34	111.07
6	P	115	GLU	CA-C-N	5.87	132.65	122.32
6	P	115	GLU	C-N-CA	5.87	132.65	122.32
3	I	421	MET	CA-C-N	5.86	128.06	120.44
3	I	421	MET	C-N-CA	5.86	128.06	120.44
4	J	152	PRO	CA-C-N	5.86	128.06	120.44
4	J	152	PRO	C-N-CA	5.86	128.06	120.44
7	Q	631	LYS	N-CA-C	-5.86	99.23	108.14
6	R	83	ARG	CA-C-N	5.86	132.74	121.54
6	R	83	ARG	C-N-CA	5.86	132.74	121.54
8	S	27	PHE	N-CA-C	-5.86	98.73	108.75
4	J	154	ASP	CA-C-N	5.86	130.51	121.19
4	J	154	ASP	C-N-CA	5.86	130.51	121.19
3	I	369	GLU	N-CA-C	5.86	117.75	111.36
6	F	115	GLU	CA-C-N	5.86	132.62	122.32
6	F	115	GLU	C-N-CA	5.86	132.62	122.32
7	G	179	ASN	CA-C-O	5.86	126.97	120.82
4	J	571	ASN	CA-C-N	-5.86	112.72	122.21
4	J	571	ASN	C-N-CA	-5.86	112.72	122.21
6	F	160	ALA	N-CA-C	-5.85	103.57	112.99
1	H	531	LYS	CA-C-N	5.85	131.81	121.80
1	H	531	LYS	C-N-CA	5.85	131.81	121.80
1	H	47	PHE	N-CA-C	-5.85	99.11	109.06
7	K	279	GLY	N-CA-C	-5.85	99.32	113.18
4	C	152	PRO	CA-C-N	5.85	128.04	120.44
4	C	152	PRO	C-N-CA	5.85	128.04	120.44
5	D	115	GLU	N-CA-C	-5.85	104.83	111.14
3	I	923	ASN	N-CA-C	-5.85	98.75	108.34
6	P	116	LEU	CA-C-N	5.85	132.71	121.54
6	P	116	LEU	C-N-CA	5.85	132.71	121.54
1	A	934	GLY	N-CA-C	-5.85	107.03	115.27
3	B	369	GLU	N-CA-C	5.85	117.73	111.36
7	G	293	GLN	CA-C-N	5.85	128.04	120.44
7	G	293	GLN	C-N-CA	5.85	128.04	120.44
7	G	428	ASN	CA-C-N	5.84	129.41	120.82
7	G	428	ASN	C-N-CA	5.84	129.41	120.82
1	H	744	GLU	CA-C-N	5.84	128.11	120.28
1	H	744	GLU	C-N-CA	5.84	128.11	120.28
6	P	20	ILE	N-CA-C	-5.84	100.06	108.48
1	A	258	HIS	CA-C-N	5.84	127.14	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	258	HIS	C-N-CA	5.84	127.14	119.84
4	C	571	ASN	CA-C-N	-5.84	112.75	122.21
4	C	571	ASN	C-N-CA	-5.84	112.75	122.21
8	L	27	PHE	N-CA-C	-5.84	98.76	108.75
4	C	82	ARG	N-CA-C	-5.84	100.27	109.50
4	C	707	GLY	CA-C-O	-5.84	117.33	121.88
6	F	20	ILE	N-CA-C	-5.84	100.07	108.48
1	A	47	PHE	N-CA-C	-5.84	99.14	109.06
1	A	65	LEU	N-CA-C	-5.84	99.86	108.79
6	F	116	LEU	CA-C-N	5.84	132.69	121.54
6	F	116	LEU	C-N-CA	5.84	132.69	121.54
7	K	608	THR	CA-C-N	5.84	128.10	120.28
7	K	608	THR	C-N-CA	5.84	128.10	120.28
1	H	65	LEU	N-CA-C	-5.84	99.86	108.79
8	U	140	GLN	CA-C-N	5.84	128.03	120.44
8	U	140	GLN	C-N-CA	5.84	128.03	120.44
8	L	104	MET	N-CA-C	-5.83	104.83	111.07
6	P	160	ALA	N-CA-C	-5.83	103.60	112.99
3	B	384	ASN	N-CA-C	5.83	123.22	110.80
1	A	120	TRP	N-CA-C	5.83	118.89	109.40
3	I	129	GLU	N-CA-C	5.83	117.71	111.36
4	J	82	ARG	N-CA-C	-5.83	100.30	109.50
7	G	843	ARG	N-CA-C	-5.82	98.92	108.76
1	A	531	LYS	CA-C-N	5.82	131.76	121.80
1	A	531	LYS	C-N-CA	5.82	131.76	121.80
1	H	258	HIS	CA-C-N	5.82	127.12	119.84
1	H	258	HIS	C-N-CA	5.82	127.12	119.84
1	H	450	VAL	CA-C-N	5.82	126.16	119.93
1	H	450	VAL	C-N-CA	5.82	126.16	119.93
1	H	934	GLY	N-CA-C	-5.82	107.06	115.27
1	A	181	VAL	N-CA-C	-5.82	104.68	110.62
7	K	843	ARG	N-CA-C	-5.82	98.93	108.76
8	L	110	GLU	N-CA-C	-5.82	100.72	108.34
4	J	256	TRP	N-CA-C	-5.82	100.42	109.72
3	B	923	ASN	N-CA-C	-5.81	98.81	108.34
4	C	256	TRP	N-CA-C	-5.81	100.42	109.72
1	A	450	VAL	CA-C-N	5.81	126.15	119.93
1	A	450	VAL	C-N-CA	5.81	126.15	119.93
7	G	867	ASP	CA-C-N	5.81	127.88	120.56
7	G	867	ASP	C-N-CA	5.81	127.88	120.56
1	H	577	ASN	N-CA-C	-5.81	98.43	110.80
1	H	670	ASP	N-CA-C	-5.81	106.00	112.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	S	104	MET	N-CA-C	-5.81	104.85	111.07
1	A	577	ASN	N-CA-C	-5.81	98.43	110.80
8	S	110	GLU	N-CA-C	-5.80	100.73	108.34
6	F	169	GLY	N-CA-C	-5.80	105.77	112.50
6	R	117	ARG	N-CA-C	-5.80	105.46	112.54
6	R	122	LEU	CA-C-O	5.80	126.67	120.46
3	I	384	ASN	N-CA-C	5.80	123.16	110.80
4	J	801	LEU	CA-C-O	-5.80	114.78	122.44
6	P	169	GLY	N-CA-C	-5.80	105.77	112.50
1	A	670	ASP	N-CA-C	-5.79	106.02	112.57
4	C	508	ASP	N-CA-C	-5.79	105.87	113.17
1	H	120	TRP	N-CA-C	5.79	118.84	109.40
1	H	181	VAL	N-CA-C	-5.79	104.71	110.62
3	B	129	GLU	N-CA-C	5.79	117.67	111.36
1	H	784	THR	N-CA-C	-5.79	99.93	108.79
3	I	849	THR	CA-C-O	-5.79	114.86	121.58
7	Q	221	HIS	CA-C-N	5.79	132.75	121.41
7	Q	221	HIS	C-N-CA	5.79	132.75	121.41
7	Q	843	ARG	N-CA-C	-5.79	98.98	108.76
1	A	784	THR	N-CA-C	-5.79	99.94	108.79
7	G	608	THR	CA-C-N	5.79	128.03	120.28
7	G	608	THR	C-N-CA	5.79	128.03	120.28
7	K	221	HIS	CA-C-N	5.79	132.75	121.41
7	K	221	HIS	C-N-CA	5.79	132.75	121.41
1	H	796	GLN	CA-C-N	-5.79	114.42	120.38
1	H	796	GLN	C-N-CA	-5.79	114.42	120.38
4	C	456	GLU	CA-C-O	-5.78	113.61	120.43
7	K	26	ALA	CA-C-N	5.78	128.38	120.46
7	K	26	ALA	C-N-CA	5.78	128.38	120.46
3	I	512	ALA	N-CA-C	5.78	117.26	111.07
4	J	456	GLU	CA-C-O	-5.78	113.61	120.43
4	J	533	CYS	CA-C-N	-5.78	114.96	123.05
4	J	533	CYS	C-N-CA	-5.78	114.96	123.05
7	K	306	ALA	N-CA-C	-5.78	105.06	111.36
3	B	849	THR	CA-C-O	-5.78	114.88	121.58
4	C	801	LEU	CA-C-O	-5.78	114.81	122.44
4	J	508	ASP	N-CA-C	-5.78	105.89	113.17
7	G	104	ILE	N-CA-C	5.77	116.51	110.62
1	A	248	HIS	N-CA-C	-5.77	98.50	110.80
4	C	375	TYR	N-CA-C	5.77	117.93	108.52
7	Q	306	ALA	N-CA-C	-5.77	105.07	111.36
4	C	228	HIS	N-CA-C	5.77	123.09	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	916	PHE	N-CA-C	-5.77	104.91	112.41
1	H	374	GLU	N-CA-C	-5.77	106.63	113.38
1	H	638	ALA	N-CA-C	-5.77	104.99	111.28
7	Q	867	ASP	CA-C-N	5.77	127.83	120.56
7	Q	867	ASP	C-N-CA	5.77	127.83	120.56
1	A	374	GLU	N-CA-C	-5.77	106.63	113.38
3	B	916	PHE	N-CA-C	-5.77	104.91	112.41
4	C	417	ASN	CA-C-N	5.77	130.32	122.19
4	C	417	ASN	C-N-CA	5.77	130.32	122.19
4	C	261	TYR	N-CA-C	-5.76	105.55	112.58
1	H	248	HIS	N-CA-C	-5.76	98.52	110.80
4	J	228	HIS	N-CA-C	5.76	123.08	110.80
8	U	83	SER	N-CA-C	-5.76	98.32	108.23
4	C	504	GLY	CA-C-N	5.76	130.33	123.19
4	C	504	GLY	C-N-CA	5.76	130.33	123.19
1	H	681	ALA	N-CA-C	-5.76	104.91	111.07
1	A	554	THR	CA-C-N	5.76	132.53	121.54
1	A	554	THR	C-N-CA	5.76	132.53	121.54
4	C	533	CYS	CA-C-N	-5.76	114.99	123.05
4	C	533	CYS	C-N-CA	-5.76	114.99	123.05
3	I	130	PHE	CA-C-N	5.75	127.81	120.56
3	I	130	PHE	C-N-CA	5.75	127.81	120.56
1	A	638	ALA	N-CA-C	-5.75	105.02	111.28
4	J	300	GLY	N-CA-C	5.75	121.57	111.57
7	Q	26	ALA	CA-C-N	5.75	128.34	120.46
7	Q	26	ALA	C-N-CA	5.75	128.34	120.46
1	A	796	GLN	CA-C-N	-5.75	114.46	120.38
1	A	796	GLN	C-N-CA	-5.75	114.46	120.38
6	M	30	LYS	CA-C-N	5.75	127.98	120.28
6	M	30	LYS	C-N-CA	5.75	127.98	120.28
4	C	300	GLY	N-CA-C	5.75	121.57	111.57
4	J	522	GLU	N-CA-C	5.75	118.14	109.23
4	C	529	TRP	N-CA-C	-5.74	99.88	109.24
6	R	26	ASP	N-CA-C	-5.74	100.46	109.25
7	K	867	ASP	CA-C-N	5.74	127.80	120.56
7	K	867	ASP	C-N-CA	5.74	127.80	120.56
4	J	375	TYR	N-CA-C	5.74	117.88	108.52
1	A	681	ALA	N-CA-C	-5.74	104.93	111.07
7	G	325	CYS	N-CA-C	5.74	117.53	111.28
7	G	373	ASP	N-CA-C	-5.74	98.58	110.80
7	G	757	GLU	N-CA-C	-5.74	100.54	109.72
6	R	62	SER	CA-C-N	5.74	130.28	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	R	62	SER	C-N-CA	5.74	130.28	122.19
4	J	417	ASN	CA-C-N	5.74	130.28	122.19
4	J	417	ASN	C-N-CA	5.74	130.28	122.19
1	A	106	PRO	CA-C-N	5.73	132.39	122.64
1	A	106	PRO	C-N-CA	5.73	132.39	122.64
7	K	675	GLU	N-CA-C	-5.73	100.58	109.24
6	T	30	LYS	CA-C-N	5.73	127.96	120.28
6	T	30	LYS	C-N-CA	5.73	127.96	120.28
7	G	675	GLU	N-CA-C	-5.73	100.58	109.24
1	H	554	THR	CA-C-N	5.73	132.49	121.54
1	H	554	THR	C-N-CA	5.73	132.49	121.54
7	Q	208	ARG	N-CA-C	5.73	117.33	111.14
8	Z	83	SER	N-CA-C	-5.73	98.37	108.23
3	B	512	ALA	N-CA-C	5.73	117.20	111.07
3	B	799	ASN	CA-C-N	-5.73	114.98	122.94
3	B	799	ASN	C-N-CA	-5.73	114.98	122.94
4	C	522	GLU	N-CA-C	5.73	118.11	109.23
4	C	567	ILE	CA-C-N	5.73	125.58	119.28
4	C	567	ILE	C-N-CA	5.73	125.58	119.28
4	J	504	GLY	CA-C-N	5.73	130.29	123.19
4	J	504	GLY	C-N-CA	5.73	130.29	123.19
4	J	567	ILE	CA-C-N	5.73	125.58	119.28
4	J	567	ILE	C-N-CA	5.73	125.58	119.28
7	K	208	ARG	N-CA-C	5.73	117.32	111.14
3	B	937	ALA	N-CA-C	-5.72	98.62	110.80
4	J	529	TRP	N-CA-C	-5.72	99.92	109.24
4	C	784	ALA	N-CA-C	-5.72	105.05	111.28
3	I	770	ASN	CA-C-N	5.71	132.45	121.54
3	I	770	ASN	C-N-CA	5.71	132.45	121.54
4	J	261	TYR	N-CA-C	-5.71	105.61	112.58
1	A	549	ILE	CA-C-O	-5.71	114.45	120.39
3	I	799	ASN	CA-C-N	-5.71	115.00	122.94
3	I	799	ASN	C-N-CA	-5.71	115.00	122.94
1	H	106	PRO	CA-C-N	5.71	132.34	122.64
1	H	106	PRO	C-N-CA	5.71	132.34	122.64
3	I	937	ALA	N-CA-C	-5.71	98.64	110.80
7	Q	290	SER	CA-C-O	5.71	126.81	120.82
3	B	770	ASN	CA-C-N	5.70	132.44	121.54
3	B	770	ASN	C-N-CA	5.70	132.44	121.54
1	H	549	ILE	CA-C-O	-5.70	114.46	120.39
1	H	180	ASP	N-CA-C	-5.70	106.67	113.97
8	L	19	LEU	CA-C-O	-5.70	114.67	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	110	LEU	CA-C-N	5.70	132.42	121.54
3	B	110	LEU	C-N-CA	5.70	132.42	121.54
3	I	110	LEU	CA-C-N	5.70	132.42	121.54
3	I	110	LEU	C-N-CA	5.70	132.42	121.54
7	Q	675	GLU	N-CA-C	-5.70	100.64	109.24
4	C	268	ASN	N-CA-C	5.70	117.99	108.02
7	K	290	SER	CA-C-O	5.70	126.80	120.82
3	B	130	PHE	CA-C-N	5.69	127.73	120.56
3	B	130	PHE	C-N-CA	5.69	127.73	120.56
4	C	368	VAL	CA-C-O	5.69	126.37	120.39
4	C	768	ARG	N-CA-C	5.69	117.16	111.07
3	I	865	GLU	N-CA-C	5.69	122.92	110.80
7	K	135	THR	N-CA-C	5.69	122.92	110.80
1	A	12	VAL	N-CA-C	5.69	115.79	107.37
4	J	268	ASN	N-CA-C	5.69	117.97	108.02
7	G	830	LEU	N-CA-C	5.68	118.48	109.50
1	H	12	VAL	N-CA-C	5.68	115.78	107.37
3	I	327	PRO	N-CA-C	-5.68	106.60	114.27
7	Q	830	LEU	N-CA-C	5.68	118.48	109.50
4	J	784	ALA	N-CA-C	-5.68	105.09	111.28
7	Q	135	THR	N-CA-C	5.68	122.90	110.80
4	C	227	GLY	CA-C-N	5.68	132.39	121.54
4	C	227	GLY	C-N-CA	5.68	132.39	121.54
6	F	34	LEU	N-CA-C	5.68	117.47	111.28
3	I	127	PRO	CA-C-N	5.68	132.39	121.54
3	I	127	PRO	C-N-CA	5.68	132.39	121.54
4	J	840	LYS	CA-C-N	5.68	126.41	119.99
4	J	840	LYS	C-N-CA	5.68	126.41	119.99
3	B	127	PRO	CA-C-N	5.68	132.38	121.54
3	B	127	PRO	C-N-CA	5.68	132.38	121.54
4	C	840	LYS	CA-C-N	5.68	126.41	119.99
4	C	840	LYS	C-N-CA	5.68	126.41	119.99
1	H	650	SER	CA-C-N	5.68	127.89	120.28
1	H	650	SER	C-N-CA	5.68	127.89	120.28
3	I	809	THR	CA-C-N	-5.68	113.69	122.09
3	I	809	THR	C-N-CA	-5.68	113.69	122.09
4	J	768	ARG	N-CA-C	5.68	117.14	111.07
1	H	245	CYS	O-C-N	5.67	129.68	123.27
3	B	865	GLU	N-CA-C	5.67	122.88	110.80
3	B	809	THR	CA-C-N	-5.67	113.70	122.09
3	B	809	THR	C-N-CA	-5.67	113.70	122.09
6	T	124	PHE	CA-C-N	5.67	129.96	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	T	124	PHE	C-N-CA	5.67	129.96	122.42
1	A	180	ASP	N-CA-C	-5.67	106.71	113.97
1	A	650	SER	CA-C-N	5.67	127.87	120.28
1	A	650	SER	C-N-CA	5.67	127.87	120.28
7	G	692	TYR	CA-C-N	-5.67	117.02	123.25
7	G	692	TYR	C-N-CA	-5.67	117.02	123.25
7	G	103	ILE	N-CA-C	5.67	118.99	111.17
5	D	49	VAL	N-CA-C	-5.66	100.32	108.42
3	B	447	ASP	N-CA-C	5.66	122.86	110.80
3	B	791	THR	N-CA-C	-5.66	100.75	109.52
5	N	49	VAL	N-CA-C	-5.66	100.33	108.42
7	K	830	LEU	N-CA-C	5.66	118.44	109.50
4	J	227	GLY	CA-C-N	5.66	132.35	121.54
4	J	227	GLY	C-N-CA	5.66	132.35	121.54
4	J	252	THR	N-CA-C	-5.66	100.48	109.59
3	B	327	PRO	N-CA-C	-5.66	106.64	114.27
7	G	379	VAL	CA-C-O	-5.66	115.07	120.95
6	R	46	ILE	N-CA-C	-5.65	103.76	109.02
1	A	803	PRO	CA-C-N	5.65	132.33	121.54
1	A	803	PRO	C-N-CA	5.65	132.33	121.54
7	Q	81	ASP	CA-C-N	5.65	125.32	119.05
7	Q	81	ASP	C-N-CA	5.65	125.32	119.05
6	M	124	PHE	CA-C-N	5.65	129.93	122.42
6	M	124	PHE	C-N-CA	5.65	129.93	122.42
3	I	791	THR	N-CA-C	-5.65	100.77	109.52
4	J	368	VAL	CA-C-O	5.65	126.32	120.39
8	S	19	LEU	CA-C-O	-5.65	114.73	121.11
4	C	433	ILE	N-CA-C	-5.65	100.05	108.46
7	K	81	ASP	CA-C-N	5.65	125.32	119.05
7	K	81	ASP	C-N-CA	5.65	125.32	119.05
5	N	66	MET	N-CA-C	-5.65	100.50	109.59
5	D	66	MET	N-CA-C	-5.64	100.50	109.59
1	H	803	PRO	CA-C-N	5.64	132.32	121.54
1	H	803	PRO	C-N-CA	5.64	132.32	121.54
3	I	926	ILE	O-C-N	-5.64	117.11	123.20
3	I	447	ASP	N-CA-C	5.64	122.81	110.80
4	C	252	THR	N-CA-C	-5.64	100.51	109.59
3	I	121	ARG	N-CA-C	-5.64	105.14	111.28
1	A	245	CYS	O-C-N	5.64	129.64	123.27
7	G	312	ASN	CA-C-N	5.64	129.79	120.94
7	G	312	ASN	C-N-CA	5.64	129.79	120.94
1	A	38	TYR	N-CA-C	5.63	118.19	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	474	LEU	N-CA-C	5.63	117.10	111.07
8	Z	70	LYS	CA-C-N	5.63	131.37	122.36
8	Z	70	LYS	C-N-CA	5.63	131.37	122.36
7	K	176	ARG	CA-C-N	5.63	134.70	121.52
7	K	176	ARG	C-N-CA	5.63	134.70	121.52
1	A	478	GLN	CA-C-N	5.63	132.30	121.54
1	A	478	GLN	C-N-CA	5.63	132.30	121.54
1	H	478	GLN	CA-C-N	5.63	132.29	121.54
1	H	478	GLN	C-N-CA	5.63	132.29	121.54
4	J	433	ILE	N-CA-C	-5.63	100.07	108.46
3	B	926	ILE	O-C-N	-5.63	117.12	123.20
7	G	139	ALA	N-CA-C	5.63	122.79	110.80
1	H	37	ASP	N-CA-C	-5.63	97.28	107.75
5	D	12	ALA	N-CA-C	5.62	122.78	110.80
1	A	124	SER	CA-C-N	5.62	132.28	121.54
1	A	124	SER	C-N-CA	5.62	132.28	121.54
5	N	12	ALA	N-CA-C	5.62	122.77	110.80
1	H	107	TRP	N-CA-C	5.62	119.22	110.17
1	A	37	ASP	N-CA-C	-5.62	97.30	107.75
1	A	107	TRP	N-CA-C	5.62	119.22	110.17
1	A	146	SER	N-CA-C	-5.62	101.33	109.59
7	G	506	LEU	CA-C-O	-5.62	112.46	120.16
1	H	611	VAL	CA-C-O	5.62	126.81	120.85
3	I	412	MET	O-C-N	-5.62	118.89	123.11
4	J	187	GLY	N-CA-C	-5.62	102.06	110.38
4	J	412	VAL	CA-C-O	-5.62	114.45	120.85
5	N	111	PHE	N-CA-C	-5.62	105.16	111.28
7	G	457	HIS	N-CA-C	-5.62	105.06	111.07
3	I	474	LEU	N-CA-C	5.62	117.08	111.07
7	G	765	GLN	N-CA-C	-5.61	100.03	109.07
3	I	254	PRO	CA-C-N	5.61	132.26	121.54
3	I	254	PRO	C-N-CA	5.61	132.26	121.54
8	U	20	ASP	N-CA-C	-5.61	103.51	110.41
7	Q	176	ARG	CA-C-N	5.61	134.65	121.52
7	Q	176	ARG	C-N-CA	5.61	134.65	121.52
1	H	184	ILE	CA-C-N	5.61	132.25	121.54
1	H	184	ILE	C-N-CA	5.61	132.25	121.54
4	C	818	LEU	CA-C-O	-5.61	114.48	120.42
4	J	444	VAL	CA-C-N	5.61	130.37	122.46
4	J	444	VAL	C-N-CA	5.61	130.37	122.46
7	G	827	THR	CA-C-N	-5.61	115.27	123.00
7	G	827	THR	C-N-CA	-5.61	115.27	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	254	PRO	CA-C-N	5.60	132.24	121.54
3	B	254	PRO	C-N-CA	5.60	132.24	121.54
4	C	412	VAL	CA-C-O	-5.60	114.46	120.85
4	C	461	ILE	CA-C-N	5.60	132.24	121.54
4	C	461	ILE	C-N-CA	5.60	132.24	121.54
7	G	120	TYR	N-CA-C	5.60	117.47	111.36
7	G	499	GLY	N-CA-C	-5.60	105.71	112.49
7	K	610	GLN	N-CA-C	-5.60	105.17	111.28
1	H	124	SER	CA-C-N	5.60	132.24	121.54
1	H	124	SER	C-N-CA	5.60	132.24	121.54
8	S	84	TYR	N-CA-C	-5.60	98.86	110.80
1	A	184	ILE	CA-C-N	5.60	132.24	121.54
1	A	184	ILE	C-N-CA	5.60	132.24	121.54
1	H	38	TYR	N-CA-C	5.60	118.15	111.71
7	K	827	THR	CA-C-N	-5.60	115.27	123.00
7	K	827	THR	C-N-CA	-5.60	115.27	123.00
8	L	84	TYR	N-CA-C	-5.60	98.87	110.80
7	Q	610	GLN	N-CA-C	-5.60	105.18	111.28
5	D	111	PHE	N-CA-C	-5.60	105.18	111.28
7	G	251	LEU	N-CA-C	-5.59	105.08	111.07
7	G	358	ASP	CA-C-N	5.59	127.71	120.44
7	G	358	ASP	C-N-CA	5.59	127.71	120.44
7	G	610	GLN	N-CA-C	-5.59	105.18	111.28
3	I	842	MET	CA-C-O	5.59	126.48	120.55
6	R	35	TYR	N-CA-C	5.59	119.82	112.89
8	L	68	VAL	N-CA-C	5.59	117.46	108.85
7	Q	765	GLN	N-CA-C	-5.59	100.07	109.07
7	K	765	GLN	N-CA-C	-5.59	100.07	109.07
3	B	842	MET	CA-C-O	5.59	126.47	120.55
1	H	146	SER	N-CA-C	-5.59	101.38	109.59
8	S	68	VAL	N-CA-C	5.59	117.45	108.85
8	U	70	LYS	CA-C-N	5.58	131.29	122.36
8	U	70	LYS	C-N-CA	5.58	131.29	122.36
3	B	448	ASN	CA-C-O	5.58	126.45	120.70
3	B	834	LEU	CA-C-N	5.58	131.86	122.87
3	B	834	LEU	C-N-CA	5.58	131.86	122.87
7	K	190	ILE	N-CA-C	5.58	115.78	110.53
1	H	274	ARG	N-CA-C	-5.58	100.79	109.72
4	J	367	VAL	N-CA-C	-5.58	100.41	108.89
1	A	611	VAL	CA-C-O	5.58	126.76	120.85
4	J	828	THR	CA-C-N	5.58	126.36	120.11
4	J	828	THR	C-N-CA	5.58	126.36	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	118	ASP	CA-C-N	5.58	127.69	120.44
7	G	118	ASP	C-N-CA	5.58	127.69	120.44
1	H	586	ARG	O-C-N	5.58	127.73	121.32
1	A	44	ILE	N-CA-C	-5.57	105.41	110.82
1	A	274	ARG	N-CA-C	-5.57	100.80	109.72
7	K	612	ILE	N-CA-C	-5.57	104.94	110.62
8	L	61	LEU	CA-C-O	-5.57	114.34	120.36
4	J	461	ILE	CA-C-N	5.57	132.19	121.54
4	J	461	ILE	C-N-CA	5.57	132.19	121.54
1	A	763	ALA	N-CA-C	5.57	117.35	111.28
3	B	121	ARG	N-CA-C	-5.57	105.21	111.28
3	B	515	LEU	N-CA-C	-5.57	101.04	108.34
7	G	382	ALA	N-CA-C	-5.57	105.11	111.07
3	I	535	THR	CA-C-N	5.57	127.68	120.44
3	I	535	THR	C-N-CA	5.57	127.68	120.44
7	K	647	VAL	N-CA-C	5.57	115.88	107.75
5	N	13	GLY	N-CA-C	-5.57	107.96	115.36
1	A	372	PRO	CA-C-O	-5.57	115.25	121.32
4	C	367	VAL	N-CA-C	-5.57	100.43	108.89
7	K	193	GLN	N-CA-C	-5.57	105.21	111.28
1	A	483	LEU	N-CA-C	-5.56	105.13	111.14
7	Q	193	GLN	N-CA-C	-5.56	105.22	111.28
3	B	952	ALA	N-CA-C	5.56	117.34	111.28
4	C	187	GLY	N-CA-C	-5.56	102.15	110.38
3	I	448	ASN	CA-C-O	5.56	126.43	120.70
4	C	828	THR	CA-C-N	5.56	126.34	120.11
4	C	828	THR	C-N-CA	5.56	126.34	120.11
4	C	432	SER	N-CA-C	-5.56	100.87	108.38
7	Q	827	THR	CA-C-N	-5.56	115.33	123.00
7	Q	827	THR	C-N-CA	-5.56	115.33	123.00
1	H	33	ILE	N-CA-C	-5.56	100.48	108.48
3	I	826	ALA	CA-C-N	5.56	132.16	121.54
3	I	826	ALA	C-N-CA	5.56	132.16	121.54
7	Q	647	VAL	N-CA-C	5.56	115.86	107.75
3	B	535	THR	CA-C-N	5.55	127.66	120.44
3	B	535	THR	C-N-CA	5.55	127.66	120.44
7	K	149	VAL	CA-C-N	-5.55	114.36	122.19
7	K	149	VAL	C-N-CA	-5.55	114.36	122.19
1	H	44	ILE	N-CA-C	-5.55	105.43	110.82
3	I	834	LEU	CA-C-N	5.55	131.81	122.87
3	I	834	LEU	C-N-CA	5.55	131.81	122.87
7	Q	190	ILE	N-CA-C	5.55	115.75	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	103	THR	CA-C-N	5.55	135.35	121.80
3	B	103	THR	C-N-CA	5.55	135.35	121.80
7	Q	234	ARG	CA-C-O	5.55	126.44	120.55
1	A	586	ARG	O-C-N	5.55	127.70	121.32
6	R	100	ILE	N-CA-C	-5.55	105.31	110.53
1	H	452	ASN	N-CA-C	-5.55	98.98	110.80
1	H	763	ALA	N-CA-C	5.55	117.33	111.28
4	J	432	SER	N-CA-C	-5.55	100.89	108.38
7	G	546	TYR	N-CA-C	5.55	117.01	111.07
7	G	547	ILE	CA-C-N	5.55	127.71	120.28
7	G	547	ILE	C-N-CA	5.55	127.71	120.28
7	G	142	ARG	N-CA-C	-5.55	105.15	111.14
3	I	103	THR	CA-C-N	5.55	135.33	121.80
3	I	103	THR	C-N-CA	5.55	135.33	121.80
7	Q	612	ILE	N-CA-C	-5.55	104.96	110.62
1	A	452	ASN	N-CA-C	-5.54	98.99	110.80
3	B	826	ALA	CA-C-N	5.54	132.13	121.54
3	B	826	ALA	C-N-CA	5.54	132.13	121.54
4	C	444	VAL	CA-C-N	5.54	130.28	122.46
4	C	444	VAL	C-N-CA	5.54	130.28	122.46
7	G	612	ILE	N-CA-C	-5.54	104.97	110.62
8	Z	20	ASP	N-CA-C	-5.54	103.59	110.41
4	J	238	HIS	CA-C-O	-5.54	114.83	119.76
1	A	33	ILE	N-CA-C	-5.54	100.50	108.48
4	C	222	VAL	CA-C-N	-5.54	112.33	121.80
4	C	222	VAL	C-N-CA	-5.54	112.33	121.80
8	S	61	LEU	CA-C-O	-5.54	114.38	120.36
4	C	238	HIS	CA-C-O	-5.54	114.83	119.76
5	D	13	GLY	N-CA-C	-5.54	107.99	115.36
1	H	483	LEU	N-CA-C	-5.54	105.16	111.14
3	I	324	LYS	CA-C-N	5.54	130.41	122.21
3	I	324	LYS	C-N-CA	5.54	130.41	122.21
3	B	324	LYS	CA-C-N	5.54	130.40	122.21
3	B	324	LYS	C-N-CA	5.54	130.40	122.21
4	C	663	GLU	N-CA-C	-5.54	101.45	109.59
5	N	21	PHE	N-CA-C	-5.54	104.65	111.40
1	A	173	SER	CA-C-O	-5.53	115.00	120.26
7	Q	149	VAL	CA-C-N	-5.53	114.39	122.19
7	Q	149	VAL	C-N-CA	-5.53	114.39	122.19
3	I	952	ALA	N-CA-C	5.53	117.31	111.28
7	G	400	PHE	CA-C-N	5.53	127.69	120.28
7	G	400	PHE	C-N-CA	5.53	127.69	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	100	ASP	N-CA-C	-5.53	101.01	109.41
8	Z	80	ILE	CA-C-N	5.53	132.25	121.41
8	Z	80	ILE	C-N-CA	5.53	132.25	121.41
3	I	515	LEU	N-CA-C	-5.53	101.10	108.34
1	H	743	SER	CA-C-N	5.53	128.24	120.28
1	H	743	SER	C-N-CA	5.53	128.24	120.28
7	Q	790	THR	CA-C-N	5.53	130.53	122.85
7	Q	790	THR	C-N-CA	5.53	130.53	122.85
3	B	437	GLU	CA-C-N	5.52	128.00	120.54
3	B	437	GLU	C-N-CA	5.52	128.00	120.54
5	D	21	PHE	N-CA-C	-5.52	104.66	111.40
4	J	222	VAL	CA-C-N	-5.52	112.36	121.80
4	J	222	VAL	C-N-CA	-5.52	112.36	121.80
4	J	663	GLU	N-CA-C	-5.52	101.47	109.59
7	Q	719	ALA	N-CA-C	5.52	120.94	113.21
4	J	534	PHE	CA-C-O	5.52	126.39	120.32
4	C	203	ILE	N-CA-C	-5.52	99.86	108.86
4	C	534	PHE	CA-C-O	5.52	126.39	120.32
7	G	259	LEU	CA-C-O	-5.52	115.03	120.82
1	H	167	LEU	N-CA-C	-5.52	99.05	110.80
7	Q	51	ILE	CA-C-N	5.52	127.67	120.28
7	Q	51	ILE	C-N-CA	5.52	127.67	120.28
8	U	80	ILE	CA-C-N	5.52	132.22	121.41
8	U	80	ILE	C-N-CA	5.52	132.22	121.41
3	B	360	LEU	CA-C-O	5.51	126.33	120.10
1	H	223	GLY	N-CA-C	-5.51	100.70	111.12
3	I	437	GLU	CA-C-N	5.51	127.99	120.54
3	I	437	GLU	C-N-CA	5.51	127.99	120.54
7	K	790	THR	CA-C-N	5.51	130.51	122.85
7	K	790	THR	C-N-CA	5.51	130.51	122.85
1	H	261	GLN	CA-C-N	5.51	132.07	121.54
1	H	261	GLN	C-N-CA	5.51	132.07	121.54
1	H	769	GLU	N-CA-C	5.51	116.97	111.07
1	A	769	GLU	N-CA-C	5.51	116.96	111.07
7	K	234	ARG	CA-C-O	5.51	126.39	120.55
3	I	954	SER	N-CA-C	-5.51	105.27	111.28
4	J	18	VAL	N-CA-C	-5.51	99.22	107.37
1	A	167	LEU	N-CA-C	-5.51	99.07	110.80
3	B	954	SER	N-CA-C	-5.50	105.28	111.28
7	K	51	ILE	CA-C-N	5.50	127.65	120.28
7	K	51	ILE	C-N-CA	5.50	127.65	120.28
1	A	743	SER	CA-C-N	5.50	128.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	743	SER	C-N-CA	5.50	128.20	120.28
7	K	771	ASN	CA-C-N	-5.50	112.96	120.44
7	K	771	ASN	C-N-CA	-5.50	112.96	120.44
3	I	360	LEU	CA-C-O	5.50	126.32	120.10
1	A	103	HIS	N-CA-C	5.50	122.52	110.80
8	U	70	LYS	N-CA-C	-5.50	101.15	108.74
7	Q	825	THR	CA-C-O	-5.50	115.03	121.46
6	F	130	LEU	N-CA-C	-5.50	99.49	109.44
7	G	771	ASN	CA-C-N	-5.50	112.96	120.44
7	G	771	ASN	C-N-CA	-5.50	112.96	120.44
8	L	26	LEU	CA-C-N	-5.50	112.26	121.94
8	L	26	LEU	C-N-CA	-5.50	112.26	121.94
1	H	947	VAL	N-CA-C	-5.50	101.15	108.96
1	A	223	GLY	N-CA-C	-5.50	100.73	111.12
1	H	103	HIS	N-CA-C	5.50	122.51	110.80
1	H	372	PRO	CA-C-O	-5.50	115.33	121.32
3	B	868	VAL	N-CA-C	-5.50	100.37	108.23
7	Q	771	ASN	CA-C-N	-5.50	112.97	120.44
7	Q	771	ASN	C-N-CA	-5.50	112.97	120.44
4	C	625	LEU	CA-C-N	5.49	127.64	120.28
4	C	625	LEU	C-N-CA	5.49	127.64	120.28
4	J	25	PRO	CA-C-N	5.49	132.03	121.54
4	J	25	PRO	C-N-CA	5.49	132.03	121.54
7	G	463	GLY	N-CA-C	5.49	123.54	112.34
7	K	825	THR	CA-C-O	-5.49	115.03	121.46
8	L	76	TYR	CA-C-O	5.49	126.97	120.66
1	H	966	GLY	CA-C-N	-5.49	114.06	122.62
1	H	966	GLY	C-N-CA	-5.49	114.06	122.62
4	J	100	ASP	N-CA-C	-5.49	101.06	109.41
4	J	203	ILE	N-CA-C	-5.49	99.91	108.86
6	M	123	VAL	CA-C-N	5.49	129.97	122.84
6	M	123	VAL	C-N-CA	5.49	129.97	122.84
1	H	173	SER	CA-C-O	-5.49	115.05	120.26
3	I	128	ASN	CA-C-N	5.49	128.08	120.29
3	I	128	ASN	C-N-CA	5.49	128.08	120.29
8	S	76	TYR	CA-C-O	5.49	126.97	120.66
6	P	130	LEU	N-CA-C	-5.49	99.51	109.44
3	I	309	ASP	CA-C-O	5.48	128.35	120.51
1	A	180	ASP	CA-C-N	5.48	127.97	120.46
1	A	180	ASP	C-N-CA	5.48	127.97	120.46
1	A	713	LEU	N-CA-C	5.48	120.45	113.55
1	H	713	LEU	N-CA-C	5.48	120.45	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	328	ALA	CA-C-N	5.48	132.01	121.54
3	I	328	ALA	C-N-CA	5.48	132.01	121.54
7	K	267	VAL	N-CA-C	-5.48	105.16	110.42
3	I	868	VAL	N-CA-C	-5.48	100.40	108.23
6	P	71	GLN	N-CA-C	-5.47	103.47	110.53
1	A	599	PHE	CA-C-N	-5.47	112.03	121.66
1	A	599	PHE	C-N-CA	-5.47	112.03	121.66
7	G	790	THR	CA-C-N	5.47	130.46	122.85
7	G	790	THR	C-N-CA	5.47	130.46	122.85
7	G	811	HIS	CA-C-O	-5.47	113.48	119.61
1	H	599	PHE	CA-C-N	-5.47	112.03	121.66
1	H	599	PHE	C-N-CA	-5.47	112.03	121.66
7	G	719	ALA	N-CA-C	5.47	120.87	113.21
4	J	452	TRP	N-CA-C	-5.47	105.61	114.09
1	A	966	GLY	CA-C-N	-5.47	114.09	122.62
1	A	966	GLY	C-N-CA	-5.47	114.09	122.62
8	Z	70	LYS	N-CA-C	-5.47	101.19	108.74
8	S	26	LEU	CA-C-N	-5.47	112.31	121.94
8	S	26	LEU	C-N-CA	-5.47	112.31	121.94
4	C	25	PRO	CA-C-N	5.47	131.98	121.54
4	C	25	PRO	C-N-CA	5.47	131.98	121.54
1	A	261	GLN	CA-C-N	5.46	131.97	121.54
1	A	261	GLN	C-N-CA	5.46	131.97	121.54
8	L	146	VAL	N-CA-C	-5.46	101.53	109.29
6	T	123	VAL	CA-C-N	5.46	129.94	122.84
6	T	123	VAL	C-N-CA	5.46	129.94	122.84
1	A	723	ALA	CA-C-N	5.46	127.54	120.44
1	A	723	ALA	C-N-CA	5.46	127.54	120.44
3	B	128	ASN	CA-C-N	5.46	128.05	120.29
3	B	128	ASN	C-N-CA	5.46	128.05	120.29
1	A	688	GLN	N-CA-C	-5.46	105.22	111.07
3	B	309	ASP	CA-C-O	5.46	128.32	120.51
7	K	811	HIS	CA-C-O	-5.46	113.49	119.61
1	H	180	ASP	CA-C-N	5.46	127.94	120.46
1	H	180	ASP	C-N-CA	5.46	127.94	120.46
7	Q	267	VAL	N-CA-C	-5.46	105.18	110.42
4	C	18	VAL	N-CA-C	-5.46	99.29	107.37
7	K	719	ALA	N-CA-C	5.46	120.85	113.21
4	J	572	ARG	CA-C-N	5.46	130.84	122.93
4	J	572	ARG	C-N-CA	5.46	130.84	122.93
7	G	825	THR	CA-C-O	-5.46	115.08	121.46
6	F	71	GLN	N-CA-C	-5.46	103.49	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	811	HIS	CA-C-O	-5.45	113.50	119.61
7	G	443	ILE	N-CA-C	-5.45	104.64	110.36
4	J	385	ASN	N-CA-C	-5.45	101.58	109.59
7	G	169	CYS	N-CA-C	-5.45	105.03	110.97
7	G	406	ARG	CA-C-N	5.45	127.52	120.44
7	G	406	ARG	C-N-CA	5.45	127.52	120.44
5	N	235	VAL	O-C-N	5.45	127.25	121.91
3	B	745	ALA	N-CA-C	-5.45	100.46	108.79
4	J	625	LEU	CA-C-N	5.45	127.58	120.28
4	J	625	LEU	C-N-CA	5.45	127.58	120.28
6	R	175	ASN	N-CA-C	5.45	122.40	110.80
1	A	947	VAL	N-CA-C	-5.44	101.23	108.96
3	B	938	VAL	N-CA-C	-5.44	98.02	109.34
4	C	366	PHE	CA-C-N	-5.44	114.52	122.68
4	C	366	PHE	C-N-CA	-5.44	114.52	122.68
4	C	385	ASN	N-CA-C	-5.44	101.59	109.59
4	C	452	TRP	N-CA-C	-5.44	105.66	114.09
4	C	572	ARG	CA-C-N	5.44	130.82	122.93
4	C	572	ARG	C-N-CA	5.44	130.82	122.93
7	G	325	CYS	CA-C-N	5.44	127.51	120.44
7	G	325	CYS	C-N-CA	5.44	127.51	120.44
7	K	117	GLU	CA-C-O	5.44	128.18	121.87
1	H	688	GLN	N-CA-C	-5.44	105.25	111.07
4	J	307	SER	N-CA-C	-5.44	100.45	108.99
8	Z	77	PHE	N-CA-C	-5.44	100.84	109.59
3	I	808	SER	N-CA-C	5.44	122.38	110.80
3	B	934	PRO	N-CA-C	5.44	123.67	112.47
3	I	745	ALA	N-CA-C	-5.44	100.47	108.79
8	S	146	VAL	N-CA-C	-5.44	101.57	109.29
7	G	852	VAL	N-CA-C	-5.43	100.61	108.71
3	B	808	SER	N-CA-C	5.43	122.37	110.80
4	C	307	SER	N-CA-C	-5.43	100.46	108.99
6	M	21	LEU	CA-C-N	5.43	130.66	123.05
6	M	21	LEU	C-N-CA	5.43	130.66	123.05
4	J	572	ARG	O-C-N	5.43	129.74	123.17
6	T	21	LEU	CA-C-N	5.43	130.66	123.05
6	T	21	LEU	C-N-CA	5.43	130.66	123.05
7	K	632	SER	N-CA-C	-5.43	101.10	109.52
7	Q	117	GLU	CA-C-O	5.43	128.17	121.87
3	B	328	ALA	CA-C-N	5.43	131.91	121.54
3	B	328	ALA	C-N-CA	5.43	131.91	121.54
3	I	538	THR	CA-C-N	5.43	127.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	538	THR	C-N-CA	5.43	127.56	120.28
4	J	260	THR	N-CA-C	-5.43	104.22	112.04
1	A	205	ASP	N-CA-C	-5.43	99.24	110.80
3	B	538	THR	CA-C-N	5.43	127.55	120.28
3	B	538	THR	C-N-CA	5.43	127.55	120.28
7	G	503	GLU	CA-C-N	5.43	131.90	121.54
7	G	503	GLU	C-N-CA	5.43	131.90	121.54
8	U	86	ASN	N-CA-C	5.43	117.95	110.35
4	C	479	ILE	CA-C-N	5.42	130.21	122.72
4	C	479	ILE	C-N-CA	5.42	130.21	122.72
7	G	209	LEU	CA-C-O	5.42	126.30	120.55
3	I	938	VAL	N-CA-C	-5.42	98.06	109.34
4	C	506	THR	N-CA-C	-5.42	106.14	114.16
1	H	569	TYR	CA-C-N	-5.42	114.21	121.80
1	H	569	TYR	C-N-CA	-5.42	114.21	121.80
7	Q	632	SER	N-CA-C	-5.42	101.11	109.52
7	Q	852	VAL	N-CA-C	-5.42	100.64	108.71
4	C	260	THR	N-CA-C	-5.42	104.24	112.04
4	J	366	PHE	CA-C-N	-5.42	114.56	122.68
4	J	366	PHE	C-N-CA	-5.42	114.56	122.68
8	U	77	PHE	N-CA-C	-5.42	100.87	109.59
7	G	632	SER	N-CA-C	-5.41	101.13	109.52
6	P	102	GLU	CA-C-N	5.41	127.48	120.44
6	P	102	GLU	C-N-CA	5.41	127.48	120.44
7	Q	757	GLU	N-CA-C	-5.41	100.58	109.40
4	C	692	HIS	N-CA-C	-5.41	105.38	111.28
4	J	506	THR	N-CA-C	-5.41	106.15	114.16
1	H	723	ALA	CA-C-N	5.41	127.47	120.44
1	H	723	ALA	C-N-CA	5.41	127.47	120.44
4	J	479	ILE	CA-C-N	5.41	130.19	122.72
4	J	479	ILE	C-N-CA	5.41	130.19	122.72
7	Q	83	THR	N-CA-C	-5.41	105.54	111.82
7	K	852	VAL	N-CA-C	-5.41	100.65	108.71
3	I	934	PRO	N-CA-C	5.41	123.61	112.47
7	Q	296	CYS	CA-C-N	5.41	131.87	121.54
7	Q	296	CYS	C-N-CA	5.41	131.87	121.54
5	D	235	VAL	O-C-N	5.41	127.21	121.91
7	K	757	GLU	N-CA-C	-5.41	100.59	109.40
7	K	284	GLU	CA-C-N	5.40	127.52	120.28
7	K	284	GLU	C-N-CA	5.40	127.52	120.28
4	C	572	ARG	O-C-N	5.40	129.71	123.17
8	Z	86	ASN	N-CA-C	5.40	117.91	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	220	ARG	CA-C-O	-5.40	114.23	120.49
1	H	205	ASP	N-CA-C	-5.40	99.30	110.80
6	F	102	GLU	CA-C-N	5.40	127.46	120.44
6	F	102	GLU	C-N-CA	5.40	127.46	120.44
4	J	652	GLY	N-CA-C	5.40	123.21	114.90
7	K	83	THR	N-CA-C	-5.39	105.56	111.82
6	P	122	LEU	N-CA-C	5.39	117.20	108.41
7	G	296	CYS	O-C-N	5.39	127.83	122.12
1	H	568	ILE	CA-C-N	5.39	131.47	122.73
1	H	568	ILE	C-N-CA	5.39	131.47	122.73
3	B	529	LEU	CA-C-N	5.39	127.35	120.56
3	B	529	LEU	C-N-CA	5.39	127.35	120.56
4	J	692	HIS	N-CA-C	-5.39	105.40	111.28
7	Q	213	LYS	CA-C-N	5.39	127.50	120.28
7	Q	213	LYS	C-N-CA	5.39	127.50	120.28
6	P	113	GLU	CA-C-N	5.39	130.70	122.24
6	P	113	GLU	C-N-CA	5.39	130.70	122.24
1	A	569	TYR	CA-C-N	-5.39	114.26	121.80
1	A	569	TYR	C-N-CA	-5.39	114.26	121.80
7	K	178	VAL	CA-C-N	5.38	127.50	120.28
7	K	178	VAL	C-N-CA	5.38	127.50	120.28
4	J	431	GLU	N-CA-C	-5.38	99.33	110.80
1	A	568	ILE	CA-C-N	5.38	131.45	122.73
1	A	568	ILE	C-N-CA	5.38	131.45	122.73
8	U	68	VAL	N-CA-C	-5.38	100.57	108.11
1	A	76	LYS	CA-C-N	-5.38	115.51	122.99
1	A	76	LYS	C-N-CA	-5.38	115.51	122.99
5	D	124	ASN	CA-C-N	5.38	131.66	121.97
5	D	124	ASN	C-N-CA	5.38	131.66	121.97
6	M	19	ARG	N-CA-C	-5.38	99.75	108.41
4	J	11	LEU	N-CA-C	-5.38	100.26	108.76
4	J	604	SER	CA-C-N	5.38	127.49	120.28
4	J	604	SER	C-N-CA	5.38	127.49	120.28
4	J	697	GLY	CA-C-N	5.38	125.92	120.00
4	J	697	GLY	C-N-CA	5.38	125.92	120.00
7	Q	178	VAL	CA-C-N	5.38	127.49	120.28
7	Q	178	VAL	C-N-CA	5.38	127.49	120.28
4	C	524	VAL	N-CA-C	5.38	115.83	107.28
6	R	29	GLY	N-CA-C	-5.38	100.44	113.18
7	K	220	ARG	CA-C-O	-5.38	114.25	120.49
7	Q	284	GLU	CA-C-N	5.38	127.48	120.28
7	Q	284	GLU	C-N-CA	5.38	127.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	265	SER	N-CA-C	5.38	117.01	108.79
4	C	717	GLU	CA-C-N	5.37	125.94	119.98
4	C	717	GLU	C-N-CA	5.37	125.94	119.98
7	K	296	CYS	CA-C-N	5.37	131.80	121.54
7	K	296	CYS	C-N-CA	5.37	131.80	121.54
4	J	524	VAL	N-CA-C	5.37	115.83	107.28
8	U	44	PHE	N-CA-C	-5.37	105.50	111.36
6	T	42	VAL	CA-C-N	5.37	131.64	121.97
6	T	42	VAL	C-N-CA	5.37	131.64	121.97
4	C	604	SER	CA-C-N	5.37	127.48	120.28
4	C	604	SER	C-N-CA	5.37	127.48	120.28
1	H	149	LEU	CA-C-N	-5.37	115.47	122.51
1	H	149	LEU	C-N-CA	-5.37	115.47	122.51
6	T	97	ARG	N-CA-C	-5.37	106.40	113.17
7	K	213	LYS	CA-C-N	5.37	127.48	120.28
7	K	213	LYS	C-N-CA	5.37	127.48	120.28
6	T	19	ARG	N-CA-C	-5.37	99.77	108.41
4	C	652	GLY	N-CA-C	5.37	123.16	114.90
8	Z	44	PHE	N-CA-C	-5.37	105.51	111.36
8	Z	68	VAL	N-CA-C	-5.37	100.60	108.11
4	J	759	ARG	N-CA-C	5.37	116.94	111.14
1	A	219	LEU	N-CA-C	-5.36	102.94	110.50
4	C	11	LEU	N-CA-C	-5.36	100.29	108.76
4	J	65	PHE	CA-C-O	-5.36	115.02	120.71
6	F	122	LEU	N-CA-C	5.36	117.15	108.41
3	I	320	LEU	CA-C-N	5.36	127.81	120.46
3	I	320	LEU	C-N-CA	5.36	127.81	120.46
4	C	265	SER	N-CA-C	5.36	116.99	108.79
6	F	113	GLU	CA-C-N	5.36	130.66	122.24
6	F	113	GLU	C-N-CA	5.36	130.66	122.24
6	M	42	VAL	CA-C-N	5.36	131.62	121.97
6	M	42	VAL	C-N-CA	5.36	131.62	121.97
6	M	97	ARG	N-CA-C	-5.36	106.42	113.17
1	H	219	LEU	N-CA-C	-5.36	102.94	110.50
1	H	220	ILE	N-CA-C	-5.36	100.12	108.86
7	G	222	GLY	N-CA-C	-5.36	104.25	111.54
3	B	320	LEU	CA-C-N	5.36	127.80	120.46
3	B	320	LEU	C-N-CA	5.36	127.80	120.46
4	C	431	GLU	N-CA-C	-5.36	99.39	110.80
1	A	149	LEU	CA-C-N	-5.35	115.50	122.51
1	A	149	LEU	C-N-CA	-5.35	115.50	122.51
4	C	22	ASP	N-CA-C	-5.35	100.58	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	759	ARG	N-CA-C	5.35	116.92	111.14
5	D	55	ARG	CA-C-N	-5.35	114.50	122.74
5	D	55	ARG	C-N-CA	-5.35	114.50	122.74
5	N	124	ASN	CA-C-N	5.35	131.60	121.97
5	N	124	ASN	C-N-CA	5.35	131.60	121.97
6	P	94	SER	N-CA-C	-5.35	106.94	112.93
6	P	115	GLU	O-C-N	5.35	127.79	122.12
1	H	623	GLN	N-CA-C	-5.35	101.16	108.38
1	H	76	LYS	CA-C-N	-5.35	115.56	122.99
1	H	76	LYS	C-N-CA	-5.35	115.56	122.99
1	A	220	ILE	N-CA-C	-5.34	100.15	108.86
3	B	836	ASP	N-CA-C	-5.34	102.55	110.46
4	C	697	GLY	CA-C-N	5.34	125.88	120.00
4	C	697	GLY	C-N-CA	5.34	125.88	120.00
1	H	494	VAL	N-CA-C	-5.34	100.78	108.53
3	I	836	ASP	N-CA-C	-5.34	102.55	110.46
7	G	177	TRP	CA-C-N	5.34	128.06	120.53
7	G	177	TRP	C-N-CA	5.34	128.06	120.53
5	N	55	ARG	CA-C-N	-5.34	114.51	122.74
5	N	55	ARG	C-N-CA	-5.34	114.51	122.74
1	H	86	LEU	CA-C-N	5.34	131.88	121.63
1	H	86	LEU	C-N-CA	5.34	131.88	121.63
5	N	51	THR	CA-C-N	5.34	129.94	122.36
5	N	51	THR	C-N-CA	5.34	129.94	122.36
1	A	811	LEU	CA-C-N	5.34	127.43	120.28
1	A	811	LEU	C-N-CA	5.34	127.43	120.28
4	C	421	LYS	CA-C-O	5.34	126.17	120.46
1	A	403	GLN	CA-C-N	5.34	128.46	120.83
1	A	403	GLN	C-N-CA	5.34	128.46	120.83
6	F	94	SER	N-CA-C	-5.34	106.95	112.93
7	G	99	ALA	CA-C-N	5.34	131.74	121.54
7	G	99	ALA	C-N-CA	5.34	131.74	121.54
1	A	222	SER	N-CA-C	5.34	117.50	109.23
7	G	148	ILE	N-CA-C	-5.34	105.18	110.62
3	I	529	LEU	CA-C-N	5.33	127.28	120.56
3	I	529	LEU	C-N-CA	5.33	127.28	120.56
4	J	421	LYS	CA-C-O	5.33	126.17	120.46
6	P	115	GLU	N-CA-C	-5.33	105.47	111.28
3	B	794	PRO	CA-C-O	-5.33	115.52	121.23
4	J	717	GLU	CA-C-N	5.33	125.90	119.98
4	J	717	GLU	C-N-CA	5.33	125.90	119.98
1	A	810	LEU	CA-C-N	5.33	131.72	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	810	LEU	C-N-CA	5.33	131.72	121.54
4	C	314	ILE	CA-C-N	-5.33	116.58	123.19
4	C	314	ILE	C-N-CA	-5.33	116.58	123.19
1	H	810	LEU	CA-C-N	5.33	131.72	121.54
1	H	810	LEU	C-N-CA	5.33	131.72	121.54
4	J	22	ASP	N-CA-C	-5.33	100.63	108.99
6	F	115	GLU	N-CA-C	-5.33	105.47	111.28
4	J	314	ILE	CA-C-N	-5.33	116.59	123.19
4	J	314	ILE	C-N-CA	-5.33	116.59	123.19
1	A	487	LYS	N-CA-C	-5.32	100.05	108.73
6	F	115	GLU	O-C-N	5.32	127.76	122.12
1	H	222	SER	N-CA-C	5.32	117.48	109.23
8	L	79	VAL	CA-C-O	-5.32	114.71	120.67
4	J	299	LEU	N-CA-C	5.32	119.33	112.41
1	A	623	GLN	N-CA-C	-5.32	101.20	108.38
7	G	288	ALA	CA-C-N	5.32	127.26	120.56
7	G	288	ALA	C-N-CA	5.32	127.26	120.56
3	I	794	PRO	CA-C-O	-5.32	115.54	121.23
3	B	794	PRO	N-CA-C	5.32	119.22	111.03
5	D	51	THR	CA-C-N	5.32	129.91	122.36
5	D	51	THR	C-N-CA	5.32	129.91	122.36
6	F	23	VAL	O-C-N	5.32	128.85	123.00
7	G	410	GLY	N-CA-C	-5.32	100.58	113.18
7	Q	62	GLY	CA-C-N	5.32	127.35	120.44
7	Q	62	GLY	C-N-CA	5.32	127.35	120.44
7	K	147	ALA	CA-C-N	5.31	127.74	120.46
7	K	147	ALA	C-N-CA	5.31	127.74	120.46
1	H	811	LEU	CA-C-N	5.31	127.40	120.28
1	H	811	LEU	C-N-CA	5.31	127.40	120.28
8	S	79	VAL	CA-C-O	-5.31	114.72	120.67
4	J	231	ASN	CA-C-N	-5.31	115.73	122.37
4	J	231	ASN	C-N-CA	-5.31	115.73	122.37
7	G	56	ASN	N-CA-C	-5.31	105.49	111.28
4	C	231	ASN	CA-C-N	-5.31	115.73	122.37
4	C	231	ASN	C-N-CA	-5.31	115.73	122.37
4	C	712	VAL	CA-C-O	-5.31	115.43	120.95
7	G	242	GLU	CA-C-N	5.31	131.68	121.54
7	G	242	GLU	C-N-CA	5.31	131.68	121.54
7	G	412	GLU	CA-C-N	5.31	127.39	120.28
7	G	412	GLU	C-N-CA	5.31	127.39	120.28
1	H	513	ILE	CA-C-O	5.31	126.11	120.48
1	A	764	THR	N-CA-C	5.30	119.01	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	F	101	GLY	CA-C-O	5.30	126.21	120.75
7	G	514	LYS	CA-C-N	5.30	127.82	120.29
7	G	514	LYS	C-N-CA	5.30	127.82	120.29
7	K	663	PHE	CA-C-N	5.30	130.04	122.72
7	K	663	PHE	C-N-CA	5.30	130.04	122.72
1	H	377	VAL	N-CA-C	5.30	116.30	108.45
7	Q	122	GLY	CA-C-N	5.30	124.94	119.05
7	Q	122	GLY	C-N-CA	5.30	124.94	119.05
1	H	403	GLN	CA-C-N	5.30	128.41	120.83
1	H	403	GLN	C-N-CA	5.30	128.41	120.83
1	H	487	LYS	N-CA-C	-5.30	100.09	108.73
4	C	65	PHE	CA-C-O	-5.30	115.09	120.71
1	H	764	THR	N-CA-C	5.30	119.01	112.54
1	A	494	VAL	N-CA-C	-5.30	100.85	108.53
4	C	503	GLU	CA-C-N	5.30	131.80	121.41
4	C	503	GLU	C-N-CA	5.30	131.80	121.41
4	C	763	PRO	CA-C-N	5.30	130.88	122.61
4	C	763	PRO	C-N-CA	5.30	130.88	122.61
8	Z	106	ARG	N-CA-C	-5.30	102.18	113.20
5	N	6	ALA	N-CA-C	-5.30	100.26	108.90
5	N	53	SER	CA-C-N	-5.30	115.62	122.99
5	N	53	SER	C-N-CA	-5.30	115.62	122.99
6	P	133	ALA	CA-C-N	5.30	132.04	122.02
6	P	133	ALA	C-N-CA	5.30	132.04	122.02
7	Q	147	ALA	CA-C-N	5.30	127.72	120.46
7	Q	147	ALA	C-N-CA	5.30	127.72	120.46
3	B	778	LEU	CA-C-N	5.29	131.79	121.41
3	B	778	LEU	C-N-CA	5.29	131.79	121.41
3	I	778	LEU	CA-C-N	5.29	131.79	121.41
3	I	778	LEU	C-N-CA	5.29	131.79	121.41
4	J	503	GLU	CA-C-N	5.29	131.79	121.41
4	J	503	GLU	C-N-CA	5.29	131.79	121.41
1	A	191	GLY	N-CA-C	-5.29	100.63	113.18
1	A	377	VAL	N-CA-C	5.29	116.28	108.45
3	B	825	ALA	N-CA-C	5.29	122.07	110.80
7	K	62	GLY	CA-C-N	5.29	127.32	120.44
7	K	62	GLY	C-N-CA	5.29	127.32	120.44
4	C	542	ARG	N-CA-C	-5.29	101.07	109.59
4	J	542	ARG	N-CA-C	-5.29	101.07	109.59
6	P	101	GLY	CA-C-O	5.29	126.20	120.75
7	Q	663	PHE	CA-C-N	5.29	130.02	122.72
7	Q	663	PHE	C-N-CA	5.29	130.02	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	209	LEU	CA-C-N	5.29	127.37	120.28
7	G	209	LEU	C-N-CA	5.29	127.37	120.28
1	H	191	GLY	N-CA-C	-5.29	100.64	113.18
1	A	461	THR	CA-C-N	5.29	129.43	120.86
1	A	461	THR	C-N-CA	5.29	129.43	120.86
4	J	763	PRO	CA-C-N	5.29	130.86	122.61
4	J	763	PRO	C-N-CA	5.29	130.86	122.61
8	U	106	ARG	N-CA-C	-5.29	102.20	113.20
5	D	6	ALA	N-CA-C	-5.29	100.28	108.90
7	G	403	THR	O-C-N	5.29	127.72	122.12
6	T	89	ILE	CA-C-N	-5.29	115.60	123.11
6	T	89	ILE	C-N-CA	-5.29	115.60	123.11
7	G	527	ARG	N-CA-C	-5.29	105.41	111.07
7	K	122	GLY	CA-C-N	5.29	124.92	119.05
7	K	122	GLY	C-N-CA	5.29	124.92	119.05
5	D	53	SER	CA-C-N	-5.28	115.64	122.99
5	D	53	SER	C-N-CA	-5.28	115.64	122.99
1	A	86	LEU	CA-C-N	5.28	131.77	121.63
1	A	86	LEU	C-N-CA	5.28	131.77	121.63
4	J	386	LYS	CA-C-O	-5.28	115.26	120.70
3	I	794	PRO	N-CA-C	5.28	119.16	111.03
4	J	790	ASP	CA-C-O	-5.28	112.93	120.16
1	H	461	THR	CA-C-N	5.28	129.41	120.86
1	H	461	THR	C-N-CA	5.28	129.41	120.86
4	C	299	LEU	N-CA-C	5.28	119.27	112.41
5	D	321	ASP	CA-C-N	5.28	130.37	121.14
5	D	321	ASP	C-N-CA	5.28	130.37	121.14
7	G	740	GLY	CA-C-N	5.28	131.62	121.54
7	G	740	GLY	C-N-CA	5.28	131.62	121.54
7	K	859	ARG	O-C-N	-5.28	117.15	123.27
6	M	89	ILE	CA-C-N	-5.28	115.62	123.11
6	M	89	ILE	C-N-CA	-5.28	115.62	123.11
3	I	825	ALA	N-CA-C	5.28	122.04	110.80
6	P	23	VAL	O-C-N	5.27	128.80	123.00
6	F	133	ALA	CA-C-N	5.27	131.99	122.02
6	F	133	ALA	C-N-CA	5.27	131.99	122.02
6	R	22	MET	N-CA-C	-5.27	99.93	108.52
3	I	750	ASN	CA-C-N	5.27	131.61	121.54
3	I	750	ASN	C-N-CA	5.27	131.61	121.54
4	J	712	VAL	CA-C-O	-5.27	115.47	120.95
4	C	476	LEU	CA-C-N	-5.27	114.35	122.68
4	C	476	LEU	C-N-CA	-5.27	114.35	122.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	67	VAL	CA-C-O	5.27	126.57	120.67
8	L	11	TYR	CA-C-N	5.27	131.60	121.54
8	L	11	TYR	C-N-CA	5.27	131.60	121.54
3	I	387	GLU	N-CA-C	-5.27	99.28	109.24
8	U	114	LEU	N-CA-C	-5.27	105.43	111.07
3	B	387	GLU	N-CA-C	-5.26	99.29	109.24
4	C	790	ASP	CA-C-O	-5.26	112.95	120.16
6	F	102	GLU	N-CA-C	-5.26	105.62	111.36
5	N	51	THR	N-CA-C	-5.26	101.08	109.23
8	S	11	TYR	CA-C-N	5.26	131.59	121.54
8	S	11	TYR	C-N-CA	5.26	131.59	121.54
6	R	105	GLU	CA-C-N	-5.26	113.93	120.56
6	R	105	GLU	C-N-CA	-5.26	113.93	120.56
1	A	230	LYS	N-CA-C	-5.26	100.83	109.40
1	H	566	LEU	N-CA-C	-5.26	98.19	109.81
5	N	67	VAL	CA-C-O	5.25	126.56	120.67
6	P	110	MET	N-CA-C	-5.25	105.63	111.36
3	B	750	ASN	CA-C-N	5.25	131.57	121.54
3	B	750	ASN	C-N-CA	5.25	131.57	121.54
7	G	615	GLU	CA-C-N	5.25	127.32	120.28
7	G	615	GLU	C-N-CA	5.25	127.32	120.28
3	I	906	MET	N-CA-C	5.25	118.11	109.76
4	J	476	LEU	CA-C-N	-5.25	114.38	122.68
4	J	476	LEU	C-N-CA	-5.25	114.38	122.68
7	G	663	PHE	CA-C-N	5.25	129.97	122.72
7	G	663	PHE	C-N-CA	5.25	129.97	122.72
1	A	566	LEU	N-CA-C	-5.25	98.21	109.81
6	R	145	LEU	N-CA-C	5.25	121.98	110.80
7	K	702	GLN	N-CA-C	5.25	121.41	109.81
6	F	110	MET	N-CA-C	-5.25	105.64	111.36
8	Z	114	LEU	N-CA-C	-5.25	105.46	111.07
4	J	672	GLN	CA-C-O	5.25	126.11	120.55
7	Q	859	ARG	O-C-N	-5.24	117.19	123.27
1	A	513	ILE	CA-C-O	5.24	126.03	120.48
4	C	386	LYS	CA-C-O	-5.24	115.31	120.70
1	H	779	ASP	CA-C-N	5.24	125.53	119.92
1	H	779	ASP	C-N-CA	5.24	125.53	119.92
4	C	391	ALA	O-C-N	5.24	128.84	122.14
6	M	139	ILE	N-CA-C	5.24	115.96	110.62
3	I	453	ILE	CA-C-N	5.24	127.64	120.46
3	I	453	ILE	C-N-CA	5.24	127.64	120.46
6	R	65	VAL	CA-C-N	5.24	129.65	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	R	65	VAL	C-N-CA	5.24	129.65	122.84
6	R	142	LYS	N-CA-C	-5.24	105.65	111.36
7	K	740	GLY	CA-C-N	5.24	131.54	121.54
7	K	740	GLY	C-N-CA	5.24	131.54	121.54
8	S	80	ILE	O-C-N	5.24	128.84	123.18
1	A	779	ASP	CA-C-N	5.23	125.52	119.92
1	A	779	ASP	C-N-CA	5.23	125.52	119.92
4	J	459	ARG	N-CA-C	-5.23	100.36	108.42
7	Q	702	GLN	N-CA-C	5.23	121.37	109.81
7	K	615	GLU	CA-C-N	5.23	127.29	120.28
7	K	615	GLU	C-N-CA	5.23	127.29	120.28
6	M	22	MET	N-CA-C	-5.23	99.99	108.52
1	H	230	LYS	N-CA-C	-5.23	100.88	109.40
4	C	672	GLN	CA-C-O	5.22	126.09	120.55
5	D	51	THR	N-CA-C	-5.22	101.13	109.23
6	F	126	ASN	N-CA-C	-5.22	102.43	109.95
3	B	906	MET	N-CA-C	5.22	118.06	109.76
7	Q	609	ARG	N-CA-C	-5.22	105.59	111.28
7	G	802	GLY	N-CA-C	-5.22	106.09	112.77
1	H	1078	LEU	N-CA-C	-5.22	105.67	111.36
4	J	634	ALA	N-CA-C	-5.22	105.59	111.28
7	Q	740	GLY	CA-C-N	5.22	131.51	121.54
7	Q	740	GLY	C-N-CA	5.22	131.51	121.54
7	G	86	ARG	N-CA-C	5.22	116.65	111.07
6	T	22	MET	N-CA-C	-5.22	100.02	108.52
7	G	223	LEU	N-CA-C	5.21	118.18	110.46
7	G	446	CYS	CA-C-N	5.21	131.50	121.54
7	G	446	CYS	C-N-CA	5.21	131.50	121.54
7	G	859	ARG	O-C-N	-5.21	117.22	123.27
6	P	102	GLU	N-CA-C	-5.21	105.68	111.36
7	Q	615	GLU	CA-C-N	5.21	127.26	120.28
7	Q	615	GLU	C-N-CA	5.21	127.26	120.28
3	B	453	ILE	CA-C-N	5.21	127.59	120.46
3	B	453	ILE	C-N-CA	5.21	127.59	120.46
7	G	815	ARG	CA-C-N	-5.21	113.81	122.92
7	G	815	ARG	C-N-CA	-5.21	113.81	122.92
1	A	635	PRO	CA-C-N	5.20	128.22	120.31
1	A	635	PRO	C-N-CA	5.20	128.22	120.31
1	A	761	SER	CA-C-N	5.20	127.20	120.44
1	A	761	SER	C-N-CA	5.20	127.20	120.44
1	H	358	ARG	N-CA-C	-5.20	104.27	110.41
7	K	127	ALA	CA-C-O	5.20	125.93	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	391	ALA	O-C-N	5.20	128.80	122.14
7	Q	153	PRO	CA-C-N	5.20	127.20	120.44
7	Q	153	PRO	C-N-CA	5.20	127.20	120.44
4	C	634	ALA	N-CA-C	-5.20	105.61	111.28
5	D	67	VAL	CA-C-N	5.20	130.73	122.62
5	D	67	VAL	C-N-CA	5.20	130.73	122.62
4	C	459	ARG	N-CA-C	-5.19	100.42	108.42
7	K	114	THR	N-CA-C	-5.19	106.45	112.89
1	H	761	SER	CA-C-N	5.19	127.19	120.44
1	H	761	SER	C-N-CA	5.19	127.19	120.44
1	A	358	ARG	N-CA-C	-5.19	104.28	110.41
8	Z	117	ASN	CA-C-N	5.19	129.50	120.68
8	Z	117	ASN	C-N-CA	5.19	129.50	120.68
6	P	126	ASN	N-CA-C	-5.19	102.48	109.95
1	H	762	ALA	N-CA-C	5.19	116.62	111.07
4	J	827	VAL	CA-C-N	5.19	134.45	121.80
4	J	827	VAL	C-N-CA	5.19	134.45	121.80
6	T	139	ILE	N-CA-C	5.19	115.91	110.62
7	K	609	ARG	N-CA-C	-5.18	105.63	111.28
1	H	635	PRO	CA-C-N	5.18	128.19	120.31
1	H	635	PRO	C-N-CA	5.18	128.19	120.31
5	N	67	VAL	CA-C-N	5.18	130.71	122.62
5	N	67	VAL	C-N-CA	5.18	130.71	122.62
1	H	662	LEU	CA-C-O	5.18	126.04	120.55
8	U	117	ASN	CA-C-N	5.18	129.49	120.68
8	U	117	ASN	C-N-CA	5.18	129.49	120.68
1	A	710	THR	N-CA-C	5.18	119.31	112.89
5	D	81	GLU	N-CA-C	-5.18	105.63	111.28
4	C	555	ALA	N-CA-C	-5.18	100.44	108.42
7	Q	114	THR	N-CA-C	-5.18	106.47	112.89
7	Q	758	VAL	CA-C-N	5.18	132.44	122.03
7	Q	758	VAL	C-N-CA	5.18	132.44	122.03
7	K	153	PRO	CA-C-N	5.18	127.17	120.44
7	K	153	PRO	C-N-CA	5.18	127.17	120.44
1	H	495	ILE	CA-C-O	5.18	125.83	120.39
3	I	464	ILE	CA-C-N	5.18	131.09	121.62
3	I	464	ILE	C-N-CA	5.18	131.09	121.62
1	A	495	ILE	CA-C-O	5.17	125.82	120.39
1	H	280	LYS	CA-C-N	5.17	131.42	121.54
1	H	280	LYS	C-N-CA	5.17	131.42	121.54
1	H	578	VAL	N-CA-C	5.17	116.25	109.58
7	Q	150	ASP	N-CA-C	5.17	118.05	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	662	LEU	CA-C-O	5.17	126.03	120.55
4	C	637	VAL	O-C-N	5.17	127.16	121.83
4	C	827	VAL	CA-C-N	5.17	134.42	121.80
4	C	827	VAL	C-N-CA	5.17	134.42	121.80
6	T	78	TRP	CA-C-O	5.17	125.75	119.49
3	B	464	ILE	CA-C-N	5.17	131.08	121.62
3	B	464	ILE	C-N-CA	5.17	131.08	121.62
4	C	58	LEU	CA-C-N	5.17	125.17	119.90
4	C	58	LEU	C-N-CA	5.17	125.17	119.90
7	K	151	LYS	CA-C-N	-5.17	119.08	122.60
7	K	151	LYS	C-N-CA	-5.17	119.08	122.60
7	K	664	ASP	O-C-N	-5.17	117.43	123.27
1	A	280	LYS	CA-C-N	5.17	131.41	121.54
1	A	280	LYS	C-N-CA	5.17	131.41	121.54
1	A	1078	LEU	N-CA-C	-5.17	105.65	111.28
7	G	607	ALA	CA-C-N	5.17	131.41	121.54
7	G	607	ALA	C-N-CA	5.17	131.41	121.54
7	K	150	ASP	N-CA-C	5.17	118.03	109.46
8	L	80	ILE	O-C-N	5.17	128.76	123.18
1	A	778	PHE	O-C-N	5.16	127.46	122.09
7	G	609	ARG	N-CA-C	-5.16	105.65	111.28
3	I	333	LEU	N-CA-C	-5.16	105.73	111.36
4	J	828	THR	N-CA-C	-5.16	98.40	109.81
4	C	828	THR	N-CA-C	-5.16	98.40	109.81
4	J	555	ALA	N-CA-C	-5.16	100.47	108.42
6	T	99	ARG	CA-C-O	5.16	125.39	119.35
1	A	308	ALA	CA-C-N	5.16	127.36	122.36
1	A	308	ALA	C-N-CA	5.16	127.36	122.36
1	A	578	VAL	N-CA-C	5.16	116.23	109.58
4	C	336	LYS	N-CA-C	5.16	117.36	110.35
1	A	456	ILE	CA-C-N	5.16	131.39	121.54
1	A	456	ILE	C-N-CA	5.16	131.39	121.54
5	N	81	GLU	N-CA-C	-5.16	105.66	111.28
7	K	758	VAL	CA-C-N	5.15	132.39	122.03
7	K	758	VAL	C-N-CA	5.15	132.39	122.03
1	H	700	PHE	CA-C-N	5.15	127.18	120.28
1	H	700	PHE	C-N-CA	5.15	127.18	120.28
7	K	118	ASP	N-CA-C	-5.15	105.75	111.36
1	H	742	VAL	CA-C-N	5.15	130.45	122.26
1	H	742	VAL	C-N-CA	5.15	130.45	122.26
4	C	633	GLN	N-CA-C	-5.15	105.75	111.36
1	H	710	THR	N-CA-C	5.15	119.28	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	762	ALA	N-CA-C	5.15	116.58	111.07
7	G	647	VAL	N-CA-C	5.15	115.88	108.93
6	R	97	ARG	N-CA-C	-5.15	106.40	113.30
7	Q	664	ASP	O-C-N	-5.15	117.45	123.27
1	A	700	PHE	CA-C-N	5.15	127.18	120.28
1	A	700	PHE	C-N-CA	5.15	127.18	120.28
3	B	390	ASP	CA-C-O	5.15	126.36	119.47
4	J	637	VAL	O-C-N	5.15	127.13	121.83
4	C	405	ILE	CA-C-N	5.14	130.25	123.05
4	C	405	ILE	C-N-CA	5.14	130.25	123.05
6	F	129	ASP	N-CA-C	-5.14	105.67	111.28
6	P	120	ALA	N-CA-C	-5.14	99.40	108.20
1	A	742	VAL	CA-C-N	5.14	130.44	122.26
1	A	742	VAL	C-N-CA	5.14	130.44	122.26
1	H	308	ALA	CA-C-N	5.14	127.35	122.36
1	H	308	ALA	C-N-CA	5.14	127.35	122.36
4	J	241	LEU	N-CA-C	-5.14	98.44	109.81
7	Q	64	THR	CA-C-O	5.14	126.22	120.82
7	G	141	GLU	CA-C-O	-5.14	115.08	120.63
1	H	427	ALA	N-CA-C	-5.14	101.10	108.60
1	H	456	ILE	CA-C-N	5.14	131.36	121.54
1	H	456	ILE	C-N-CA	5.14	131.36	121.54
6	P	173	LEU	N-CA-C	5.14	116.57	111.07
6	P	129	ASP	N-CA-C	-5.14	105.68	111.28
8	Z	90	LEU	CA-C-N	5.14	127.16	120.28
8	Z	90	LEU	C-N-CA	5.14	127.16	120.28
1	H	364	PRO	CA-C-N	5.14	128.75	121.66
1	H	364	PRO	C-N-CA	5.14	128.75	121.66
3	B	333	LEU	N-CA-C	-5.13	105.76	111.36
6	M	78	TRP	CA-C-O	5.13	125.70	119.49
7	Q	127	ALA	CA-C-O	5.13	125.86	120.42
7	Q	802	GLY	N-CA-C	-5.13	106.20	112.77
4	J	336	LYS	N-CA-C	5.13	117.33	110.35
7	K	802	GLY	N-CA-C	-5.13	106.20	112.77
1	A	427	ALA	N-CA-C	-5.13	101.11	108.60
6	F	120	ALA	N-CA-C	-5.13	99.43	108.20
7	G	758	VAL	CA-C-N	5.13	132.34	122.03
7	G	758	VAL	C-N-CA	5.13	132.34	122.03
7	K	607	ALA	CA-C-N	5.13	131.34	121.54
7	K	607	ALA	C-N-CA	5.13	131.34	121.54
1	H	602	ALA	N-CA-C	-5.13	105.60	111.14
1	A	578	VAL	CA-C-N	-5.12	115.25	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	578	VAL	C-N-CA	-5.12	115.25	122.94
4	C	241	LEU	N-CA-C	-5.12	98.48	109.81
1	A	364	PRO	CA-C-N	5.12	128.73	121.66
1	A	364	PRO	C-N-CA	5.12	128.73	121.66
8	L	45	GLU	N-CA-C	-5.12	105.69	111.28
6	T	41	GLU	O-C-N	5.12	129.40	123.30
1	H	787	ASP	CA-C-N	5.12	131.19	121.97
1	H	787	ASP	C-N-CA	5.12	131.19	121.97
3	I	390	ASP	CA-C-O	5.12	126.33	119.47
4	J	405	ILE	CA-C-N	5.12	130.22	123.05
4	J	405	ILE	C-N-CA	5.12	130.22	123.05
4	J	633	GLN	N-CA-C	-5.12	105.78	111.36
6	R	73	ARG	N-CA-C	-5.12	105.78	111.36
7	K	64	THR	CA-C-O	5.12	126.20	120.82
3	I	777	THR	N-CA-C	-5.12	102.81	110.23
8	U	90	LEU	CA-C-N	5.12	127.14	120.28
8	U	90	LEU	C-N-CA	5.12	127.14	120.28
7	Q	309	ARG	CA-C-N	5.12	131.32	121.54
7	Q	309	ARG	C-N-CA	5.12	131.32	121.54
7	Q	607	ALA	CA-C-N	5.12	131.32	121.54
7	Q	607	ALA	C-N-CA	5.12	131.32	121.54
7	Q	257	SER	CA-C-N	5.12	127.14	120.28
7	Q	257	SER	C-N-CA	5.12	127.14	120.28
6	R	133	ALA	N-CA-C	-5.12	99.90	110.80
6	M	99	ARG	CA-C-O	5.12	125.33	119.35
7	Q	151	LYS	CA-C-N	-5.12	119.12	122.60
7	Q	151	LYS	C-N-CA	-5.12	119.12	122.60
7	G	96	SER	O-C-N	-5.11	115.79	122.59
7	K	309	ARG	CA-C-N	5.11	131.31	121.54
7	K	309	ARG	C-N-CA	5.11	131.31	121.54
8	S	45	GLU	N-CA-C	-5.11	105.71	111.28
1	H	1076	GLU	N-CA-C	5.11	116.54	111.07
7	K	148	ILE	N-CA-C	-5.11	105.41	110.62
7	K	792	SER	N-CA-C	5.11	120.15	113.30
7	G	317	LYS	N-CA-C	-5.11	101.31	109.23
3	B	445	ARG	N-CA-C	5.11	121.68	110.80
1	H	578	VAL	CA-C-N	-5.11	115.28	122.94
1	H	578	VAL	C-N-CA	-5.11	115.28	122.94
4	J	171	GLN	N-CA-C	-5.11	101.55	109.72
7	Q	236	ALA	CA-C-O	5.11	125.84	119.97
7	Q	72	ALA	N-CA-C	5.10	116.53	111.07
3	I	38	GLU	N-CA-C	-5.10	105.72	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	U	52	THR	CA-C-N	5.10	131.29	121.54
8	U	52	THR	C-N-CA	5.10	131.29	121.54
7	Q	118	ASP	N-CA-C	-5.10	105.80	111.36
8	S	89	MET	CA-C-O	5.10	125.83	120.42
3	I	440	ARG	CA-C-N	5.10	127.12	120.28
3	I	440	ARG	C-N-CA	5.10	127.12	120.28
3	B	424	LEU	CA-C-N	5.10	131.28	121.54
3	B	424	LEU	C-N-CA	5.10	131.28	121.54
3	B	777	THR	N-CA-C	-5.10	102.84	110.23
4	C	171	GLN	N-CA-C	-5.10	101.56	109.72
1	A	787	ASP	CA-C-N	5.10	131.15	121.97
1	A	787	ASP	C-N-CA	5.10	131.15	121.97
6	F	50	GLY	CA-C-N	5.10	128.01	120.82
6	F	50	GLY	C-N-CA	5.10	128.01	120.82
7	G	23	GLU	N-CA-C	-5.10	99.94	110.80
6	M	51	PHE	N-CA-C	5.10	121.65	110.80
6	F	173	LEU	N-CA-C	5.09	116.52	111.07
8	Z	52	THR	CA-C-N	5.09	131.27	121.54
8	Z	52	THR	C-N-CA	5.09	131.27	121.54
6	M	157	ALA	N-CA-C	5.09	117.60	109.96
4	J	58	LEU	CA-C-N	5.09	125.10	119.90
4	J	58	LEU	C-N-CA	5.09	125.10	119.90
7	K	257	SER	CA-C-N	5.09	127.10	120.28
7	K	257	SER	C-N-CA	5.09	127.10	120.28
4	J	835	VAL	N-CA-C	5.09	115.71	110.36
3	I	107	GLY	N-CA-C	-5.09	101.11	113.18
3	I	424	LEU	CA-C-N	5.09	131.26	121.54
3	I	424	LEU	C-N-CA	5.09	131.26	121.54
3	B	440	ARG	CA-C-N	5.09	127.10	120.28
3	B	440	ARG	C-N-CA	5.09	127.10	120.28
8	L	78	TYR	N-CA-C	5.09	117.71	109.06
7	G	213	LYS	N-CA-C	-5.09	105.92	111.82
7	G	364	ILE	CA-C-N	5.09	127.61	120.28
7	G	364	ILE	C-N-CA	5.09	127.61	120.28
3	I	179	ARG	N-CA-C	5.09	116.63	111.14
3	B	107	GLY	N-CA-C	-5.08	101.13	113.18
7	Q	212	SER	N-CA-C	-5.08	105.63	111.07
7	Q	790	THR	N-CA-C	-5.08	100.12	108.41
1	A	679	GLU	N-CA-C	-5.08	105.65	111.14
3	B	38	GLU	N-CA-C	-5.08	105.74	111.28
3	B	776	ALA	CA-C-N	5.08	127.92	120.71
3	B	776	ALA	C-N-CA	5.08	127.92	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	236	ALA	CA-C-O	5.08	125.81	119.97
6	M	41	GLU	O-C-N	5.08	129.35	123.30
3	I	445	ARG	N-CA-C	5.08	121.62	110.80
3	I	776	ALA	CA-C-N	5.08	127.93	120.71
3	I	776	ALA	C-N-CA	5.08	127.93	120.71
5	N	78	GLU	CA-C-O	5.08	126.16	120.82
1	A	652	ALA	N-CA-C	-5.08	105.74	111.28
7	G	790	THR	N-CA-C	-5.08	100.13	108.41
6	R	102	GLU	CA-C-O	5.08	125.80	120.42
1	H	431	ARG	N-CA-C	-5.08	101.96	109.83
8	U	14	LYS	N-CA-C	-5.08	105.20	111.40
7	K	307	ALA	N-CA-C	-5.08	105.64	111.07
6	T	51	PHE	N-CA-C	5.08	121.61	110.80
1	A	1076	GLU	N-CA-C	5.08	116.50	111.07
8	L	37	SER	CA-C-O	5.08	127.77	120.51
6	R	66	TRP	N-CA-C	5.07	116.88	108.20
1	H	778	PHE	O-C-N	5.07	127.37	122.09
8	U	45	GLU	N-CA-C	-5.07	105.83	111.36
7	Q	38	PRO	N-CA-C	5.07	122.92	112.47
7	Q	792	SER	N-CA-C	5.07	120.10	113.30
5	N	137	ASP	N-CA-C	-5.07	102.66	108.49
7	K	790	THR	N-CA-C	-5.07	100.14	108.41
1	A	431	ARG	N-CA-C	-5.07	101.97	109.83
5	D	78	GLU	CA-C-O	5.07	126.14	120.82
6	T	157	ALA	N-CA-C	5.07	117.56	109.96
7	K	212	SER	N-CA-C	-5.07	105.65	111.07
8	L	89	MET	CA-C-O	5.07	125.79	120.42
1	H	652	ALA	N-CA-C	-5.07	105.76	111.28
1	A	438	LYS	O-C-N	-5.07	117.38	123.31
5	D	98	GLU	CA-C-N	5.07	127.07	120.28
5	D	98	GLU	C-N-CA	5.07	127.07	120.28
3	I	346	THR	N-CA-C	-5.07	98.61	109.81
5	N	129	GLN	N-CA-C	-5.07	105.76	111.28
7	Q	148	ILE	N-CA-C	-5.07	105.45	110.62
1	A	142	GLN	CA-C-N	5.06	129.80	121.39
1	A	142	GLN	C-N-CA	5.06	129.80	121.39
5	D	26	ARG	N-CA-C	-5.06	101.72	108.86
8	Z	45	GLU	N-CA-C	-5.06	105.84	111.36
6	M	54	GLU	N-CA-C	-5.06	101.38	109.07
3	I	188	ALA	N-CA-C	5.06	119.83	113.25
3	I	866	ASN	O-C-N	-5.06	117.49	123.41
5	N	26	ARG	N-CA-C	-5.06	101.72	108.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	P	50	GLY	CA-C-N	5.06	127.96	120.82
6	P	50	GLY	C-N-CA	5.06	127.96	120.82
3	B	346	THR	N-CA-C	-5.06	98.62	109.81
7	K	38	PRO	N-CA-C	5.06	122.89	112.47
7	K	742	ILE	N-CA-C	-5.06	100.24	107.78
4	C	835	VAL	N-CA-C	5.06	115.67	110.36
4	C	528	LEU	N-CA-C	5.06	116.93	108.99
7	G	742	ILE	N-CA-C	-5.06	100.25	107.78
7	G	862	GLU	CA-C-N	5.05	127.47	120.29
7	G	862	GLU	C-N-CA	5.05	127.47	120.29
7	Q	742	ILE	N-CA-C	-5.05	100.25	107.78
4	C	765	GLN	N-CA-C	-5.05	106.38	112.54
7	K	72	ALA	N-CA-C	5.05	116.48	111.07
1	H	462	GLY	CA-C-O	-5.05	116.83	121.63
7	G	332	LEU	N-CA-C	-5.05	105.78	111.28
1	H	679	GLU	N-CA-C	-5.05	105.69	111.14
3	I	546	ARG	N-CA-C	5.05	118.05	109.06
4	J	719	ALA	N-CA-C	-5.05	105.78	111.28
1	A	602	ALA	N-CA-C	-5.05	105.69	111.14
4	C	68	ARG	CA-C-O	5.05	126.12	120.82
4	J	808	GLU	CA-C-N	5.05	127.04	120.28
4	J	808	GLU	C-N-CA	5.05	127.04	120.28
8	S	37	SER	CA-C-O	5.05	127.73	120.51
6	T	54	GLU	N-CA-C	-5.05	101.40	109.07
3	B	234	PHE	N-CA-C	5.05	118.24	110.42
7	Q	307	ALA	N-CA-C	-5.05	105.67	111.07
8	S	78	TYR	N-CA-C	5.05	117.64	109.06
2	E	130	ASP	N-CA-C	-5.04	106.82	112.87
7	G	247	ARG	CA-C-N	-5.04	111.90	121.54
7	G	247	ARG	C-N-CA	-5.04	111.90	121.54
7	G	354	GLU	N-CA-C	-5.04	103.74	110.55
3	B	546	ARG	N-CA-C	5.04	118.03	109.06
3	B	866	ASN	O-C-N	-5.04	117.51	123.41
3	I	234	PHE	N-CA-C	5.04	118.23	110.42
4	J	588	LEU	CA-C-N	5.04	127.37	120.46
4	J	588	LEU	C-N-CA	5.04	127.37	120.46
7	G	66	ALA	CA-C-N	5.04	127.03	120.28
7	G	66	ALA	C-N-CA	5.04	127.03	120.28
4	J	203	ILE	CA-C-N	5.04	130.61	122.29
4	J	203	ILE	C-N-CA	5.04	130.61	122.29
4	C	790	ASP	O-C-N	-5.04	115.53	121.32
1	H	244	THR	N-CA-C	-5.04	100.69	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	K	862	GLU	CA-C-N	5.04	127.44	120.29
7	K	862	GLU	C-N-CA	5.04	127.44	120.29
1	H	732	HIS	CA-C-O	5.04	125.58	119.38
1	H	142	GLN	CA-C-N	5.04	129.75	121.39
1	H	142	GLN	C-N-CA	5.04	129.75	121.39
4	C	777	LEU	CA-C-N	5.03	127.02	120.28
4	C	777	LEU	C-N-CA	5.03	127.02	120.28
5	N	98	GLU	CA-C-N	5.03	127.03	120.28
5	N	98	GLU	C-N-CA	5.03	127.03	120.28
5	D	137	ASP	N-CA-C	-5.03	102.70	108.49
8	Z	140	GLN	CA-C-O	5.03	125.75	120.42
1	H	924	SER	CA-C-N	5.03	129.23	120.68
1	H	924	SER	C-N-CA	5.03	129.23	120.68
1	A	404	ASN	CA-C-N	5.03	126.03	120.45
1	A	404	ASN	C-N-CA	5.03	126.03	120.45
1	A	924	SER	CA-C-N	5.03	129.23	120.68
1	A	924	SER	C-N-CA	5.03	129.23	120.68
7	G	792	SER	N-CA-C	5.03	120.04	113.30
3	B	179	ARG	N-CA-C	5.03	116.57	111.14
4	C	16	ASP	CA-C-N	5.03	130.31	122.17
4	C	16	ASP	C-N-CA	5.03	130.31	122.17
4	C	203	ILE	CA-C-N	5.03	130.59	122.29
4	C	203	ILE	C-N-CA	5.03	130.59	122.29
8	Z	14	LYS	N-CA-C	-5.03	105.27	111.40
2	O	228	ALA	N-CA-C	-5.03	105.80	111.28
4	J	684	SER	CA-C-O	5.03	126.10	120.82
1	A	1074	PRO	CA-C-N	5.02	129.22	120.68
1	A	1074	PRO	C-N-CA	5.02	129.22	120.68
4	J	565	GLY	CA-C-N	-5.02	116.02	123.05
4	J	565	GLY	C-N-CA	-5.02	116.02	123.05
4	C	588	LEU	CA-C-N	5.02	127.34	120.46
4	C	588	LEU	C-N-CA	5.02	127.34	120.46
4	C	808	GLU	CA-C-N	5.02	127.01	120.28
4	C	808	GLU	C-N-CA	5.02	127.01	120.28
5	D	129	GLN	N-CA-C	-5.02	105.81	111.28
5	D	287	GLY	N-CA-C	-5.02	105.89	112.82
4	J	16	ASP	CA-C-N	5.02	130.31	122.17
4	J	16	ASP	C-N-CA	5.02	130.31	122.17
3	B	182	GLU	CA-C-N	5.02	131.13	121.54
3	B	182	GLU	C-N-CA	5.02	131.13	121.54
3	I	208	ALA	N-CA-C	-5.02	105.81	111.28
4	J	168	LYS	N-CA-C	-5.02	100.72	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	362	PRO	CA-C-N	5.02	131.12	121.54
4	C	362	PRO	C-N-CA	5.02	131.12	121.54
7	K	182	GLN	N-CA-C	5.02	116.75	111.28
1	A	732	HIS	CA-C-O	5.02	125.55	119.38
4	C	168	LYS	N-CA-C	-5.02	100.72	108.90
1	H	693	CYS	CA-C-N	5.01	127.50	120.28
1	H	693	CYS	C-N-CA	5.01	127.50	120.28
8	Z	136	GLU	N-CA-C	5.01	116.43	108.96
2	O	130	ASP	N-CA-C	-5.01	106.86	112.87
8	U	140	GLN	CA-C-O	5.01	125.73	120.42
4	J	552	VAL	CA-C-O	-5.01	115.47	121.28
1	A	693	CYS	CA-C-N	5.01	127.49	120.28
1	A	693	CYS	C-N-CA	5.01	127.49	120.28
4	C	565	GLY	CA-C-N	-5.01	116.04	123.05
4	C	565	GLY	C-N-CA	-5.01	116.04	123.05
4	C	684	SER	CA-C-O	5.01	126.08	120.82
1	H	588	ARG	O-C-N	-5.01	117.46	123.27
1	H	1074	PRO	CA-C-N	5.01	129.19	120.68
1	H	1074	PRO	C-N-CA	5.01	129.19	120.68
4	J	392	GLN	N-CA-C	-5.01	100.13	110.80
7	Q	132	THR	CA-C-N	5.01	130.63	122.07
7	Q	132	THR	C-N-CA	5.01	130.63	122.07
1	A	244	THR	N-CA-C	-5.01	100.74	108.90
4	C	312	GLY	N-CA-C	-5.01	101.31	113.18
1	H	438	LYS	O-C-N	-5.01	117.45	123.31
6	F	48	THR	N-CA-C	5.00	117.48	107.62
3	B	919	ASP	N-CA-C	-5.00	101.55	109.76
3	I	182	GLU	CA-C-N	5.00	131.10	121.54
3	I	182	GLU	C-N-CA	5.00	131.10	121.54
4	J	312	GLY	N-CA-C	-5.00	101.32	113.18
4	J	672	GLN	CA-C-N	5.00	127.40	120.29
4	J	672	GLN	C-N-CA	5.00	127.40	120.29
7	Q	93	LYS	N-CA-C	-5.00	105.83	111.28
7	Q	862	GLU	CA-C-N	5.00	127.40	120.29
7	Q	862	GLU	C-N-CA	5.00	127.40	120.29
1	A	462	GLY	CA-C-O	-5.00	116.88	121.63
2	E	228	ALA	N-CA-C	-5.00	105.83	111.28
7	G	238	LYS	CA-C-N	5.00	126.94	120.44
7	G	238	LYS	C-N-CA	5.00	126.94	120.44
4	J	790	ASP	O-C-N	-5.00	115.57	121.32
7	Q	167	LEU	CA-C-N	5.00	127.25	120.65
7	Q	167	LEU	C-N-CA	5.00	127.25	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	S	47	ASN	CA-C-N	-5.00	114.16	120.56
8	S	47	ASN	C-N-CA	-5.00	114.16	120.56

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	B	898	ALA	Peptide
3	B	903	CYS	Peptide
3	B	938	VAL	Mainchain
3	I	898	ALA	Peptide
3	I	903	CYS	Peptide
3	I	938	VAL	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	4503	0	1194	39	0
1	H	4503	0	1194	39	0
2	E	1169	0	303	0	0
2	O	1169	0	303	0	0
3	B	3198	0	810	60	0
3	I	3198	0	810	57	0
4	C	3371	0	919	30	0
4	J	3371	0	919	30	0
5	D	1707	0	450	8	0
5	N	706	0	182	9	0
6	F	635	0	181	4	0
6	M	635	0	181	21	0
6	P	635	0	181	4	0
6	R	635	0	181	39	0
6	T	635	0	181	22	0
7	G	3190	0	822	65	0
7	K	2239	0	573	42	0
7	Q	2239	0	572	43	0
8	L	555	0	148	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	S	555	0	148	3	0
8	U	555	0	147	15	0
8	Z	555	0	147	14	0
All	All	39958	0	10546	515	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 10.

All (515) 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)
7:G:107:SER:N	6:R:50:GLY:HA3	1.16	1.48
7:G:107:SER:H	6:R:50:GLY:CA	1.31	1.44
7:K:107:SER:N	6:M:50:GLY:HA3	1.28	1.44
7:Q:107:SER:N	6:T:50:GLY:HA3	1.28	1.43
7:Q:167:LEU:CA	7:Q:170:SER:O	1.73	1.35
7:K:167:LEU:CA	7:K:170:SER:O	1.73	1.33
1:H:145:PRO:CA	1:H:215:PRO:O	1.80	1.29
1:A:145:PRO:CA	1:A:215:PRO:O	1.80	1.27
1:A:503:VAL:O	1:A:514:CYS:O	1.53	1.25
4:C:269:TYR:O	4:C:271:MET:N	1.68	1.25
6:R:143:LEU:C	6:R:145:LEU:H	1.23	1.24
4:J:269:TYR:O	4:J:271:MET:N	1.68	1.23
1:H:503:VAL:O	1:H:514:CYS:O	1.53	1.22
7:Q:107:SER:H	6:T:50:GLY:CA	1.53	1.21
6:R:71:GLN:O	6:R:74:ILE:N	1.74	1.21
7:K:107:SER:H	6:M:50:GLY:CA	1.53	1.20
3:I:778:LEU:O	3:I:809:THR:O	1.58	1.20
3:B:778:LEU:O	3:B:809:THR:O	1.58	1.19
5:N:13:GLY:HA2	5:N:38:LYS:CA	1.74	1.18
3:B:781:LEU:O	3:B:808:SER:O	1.63	1.16
5:D:13:GLY:HA2	5:D:38:LYS:CA	1.74	1.16
7:G:167:LEU:CA	7:G:170:SER:O	1.95	1.14
3:I:778:LEU:O	3:I:809:THR:C	1.91	1.13
3:I:781:LEU:O	3:I:808:SER:O	1.63	1.13
7:Q:190:ILE:CA	7:Q:225:SER:CA	2.26	1.13
7:K:190:ILE:CA	7:K:225:SER:CA	2.26	1.12
3:B:778:LEU:O	3:B:809:THR:C	1.91	1.11
8:Z:11:TYR:CA	8:Z:132:GLY:HA3	1.84	1.07
8:U:11:TYR:CA	8:U:132:GLY:HA3	1.84	1.06
8:S:31:TYR:CA	8:S:131:GLY:O	2.03	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:159:CYS:O	6:R:162:SER:N	1.88	1.05
8:L:31:TYR:CA	8:L:131:GLY:O	2.03	1.05
3:B:526:VAL:CA	3:B:597:VAL:CA	2.35	1.04
3:I:526:VAL:CA	3:I:597:VAL:CA	2.35	1.04
8:Z:12:THR:H	8:Z:132:GLY:CA	1.72	1.03
6:R:130:LEU:O	6:R:132:GLU:N	1.92	1.02
8:U:12:THR:H	8:U:132:GLY:CA	1.72	1.02
6:R:143:LEU:C	6:R:145:LEU:N	1.99	1.02
7:G:276:ASN:O	7:G:281:SER:O	1.75	1.02
7:Q:167:LEU:C	7:Q:170:SER:O	2.03	1.02
7:K:167:LEU:C	7:K:170:SER:O	2.03	1.01
3:I:778:LEU:C	3:I:809:THR:O	2.04	1.00
3:B:778:LEU:C	3:B:809:THR:O	2.04	0.99
6:R:126:ASN:CA	6:R:158:THR:O	2.10	0.99
7:Q:190:ILE:C	7:Q:225:SER:CA	2.34	0.99
7:K:190:ILE:C	7:K:225:SER:CA	2.34	0.98
7:Q:677:VAL:O	7:Q:694:PRO:CA	2.11	0.98
7:K:677:VAL:O	7:K:694:PRO:CA	2.11	0.98
3:I:541:ALA:CA	3:I:624:ASP:N	2.29	0.96
3:B:541:ALA:CA	3:B:624:ASP:N	2.29	0.95
8:Z:12:THR:N	8:Z:132:GLY:CA	2.30	0.95
8:U:12:THR:N	8:U:132:GLY:CA	2.30	0.94
1:H:105:TYR:O	1:H:106:PRO:C	2.08	0.94
8:U:11:TYR:CA	8:U:132:GLY:CA	2.41	0.94
3:B:824:GLY:CA	3:B:830:ASN:O	2.16	0.93
8:Z:11:TYR:CA	8:Z:132:GLY:CA	2.41	0.93
3:B:766:ASP:O	3:B:768:LEU:N	2.00	0.93
3:I:766:ASP:O	3:I:768:LEU:N	2.00	0.93
3:I:824:GLY:CA	3:I:830:ASN:O	2.16	0.93
8:Z:12:THR:N	8:Z:132:GLY:O	2.02	0.92
1:A:495:ILE:O	1:A:502:HIS:O	1.87	0.92
1:H:495:ILE:O	1:H:502:HIS:O	1.87	0.91
6:R:125:ALA:O	6:R:158:THR:O	1.89	0.91
7:K:107:SER:CA	6:M:50:GLY:HA3	2.00	0.91
7:G:301:ALA:C	7:G:303:LEU:H	1.79	0.90
1:H:503:VAL:O	1:H:514:CYS:C	2.15	0.90
7:Q:107:SER:CA	6:T:50:GLY:HA3	2.00	0.90
7:G:107:SER:H	6:R:50:GLY:C	1.79	0.89
8:U:12:THR:N	8:U:132:GLY:O	2.02	0.89
1:A:105:TYR:O	1:A:106:PRO:C	2.08	0.89
3:B:767:THR:CA	3:B:792:LEU:H	1.85	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:106:THR:C	6:R:50:GLY:HA3	1.98	0.89
3:I:767:THR:CA	3:I:792:LEU:H	1.85	0.89
1:A:503:VAL:O	1:A:514:CYS:C	2.15	0.89
3:I:781:LEU:CA	3:I:805:LYS:O	2.22	0.88
1:A:105:TYR:O	1:A:107:TRP:N	2.06	0.88
7:Q:167:LEU:O	7:Q:170:SER:O	1.92	0.87
1:H:105:TYR:O	1:H:107:TRP:N	2.06	0.87
7:G:198:GLY:O	7:G:201:TYR:N	2.07	0.87
1:A:671:LYS:O	1:A:674:TRP:N	2.08	0.87
7:K:167:LEU:O	7:K:170:SER:O	1.92	0.86
3:I:483:THR:O	3:I:484:LYS:C	2.18	0.86
7:Q:107:SER:N	6:T:50:GLY:CA	2.24	0.86
3:B:781:LEU:CA	3:B:805:LYS:O	2.22	0.86
3:B:483:THR:O	3:B:484:LYS:C	2.18	0.86
7:G:107:SER:N	6:R:50:GLY:CA	2.05	0.86
3:B:767:THR:C	3:B:792:LEU:H	1.84	0.86
3:I:767:THR:C	3:I:792:LEU:H	1.84	0.86
6:R:130:LEU:C	6:R:132:GLU:H	1.82	0.86
7:Q:190:ILE:O	7:Q:225:SER:CA	2.23	0.86
7:K:190:ILE:O	7:K:225:SER:CA	2.23	0.85
1:H:671:LYS:O	1:H:674:TRP:N	2.08	0.85
6:R:78:TRP:O	6:R:81:TYR:O	1.95	0.85
7:K:190:ILE:CA	7:K:225:SER:N	2.40	0.85
3:I:483:THR:O	3:I:487:ILE:N	2.09	0.85
1:H:214:HIS:O	1:H:217:MET:N	2.11	0.84
8:U:11:TYR:C	8:U:132:GLY:HA3	2.02	0.84
8:Z:11:TYR:C	8:Z:132:GLY:HA3	2.02	0.84
3:B:483:THR:O	3:B:487:ILE:N	2.09	0.84
1:A:671:LYS:O	1:A:673:CYS:N	2.11	0.84
7:Q:190:ILE:CA	7:Q:225:SER:N	2.40	0.84
1:H:671:LYS:O	1:H:673:CYS:N	2.11	0.84
3:B:824:GLY:HA2	3:B:830:ASN:O	1.78	0.83
8:U:12:THR:H	8:U:132:GLY:C	1.86	0.83
3:I:740:PRO:O	3:I:741:VAL:C	2.18	0.83
3:B:739:ASP:O	3:B:740:PRO:O	1.96	0.83
7:K:107:SER:N	6:M:50:GLY:CA	2.24	0.83
3:I:824:GLY:HA2	3:I:830:ASN:O	1.78	0.83
1:A:214:HIS:O	1:A:217:MET:N	2.11	0.83
8:Z:12:THR:H	8:Z:132:GLY:C	1.86	0.83
3:I:739:ASP:O	3:I:740:PRO:O	1.95	0.83
5:N:41:ASN:O	5:N:43:GLY:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:496:TRP:CA	1:A:502:HIS:CA	2.59	0.81
3:B:766:ASP:C	3:B:768:LEU:H	1.89	0.81
5:D:41:ASN:O	5:D:43:GLY:N	2.12	0.81
6:T:79:ARG:O	6:T:81:TYR:N	2.13	0.81
8:Z:13:VAL:H	8:Z:132:GLY:HA2	1.46	0.81
6:M:79:ARG:O	6:M:81:TYR:N	2.13	0.80
3:B:740:PRO:O	3:B:741:VAL:C	2.18	0.80
1:H:496:TRP:CA	1:H:502:HIS:CA	2.59	0.80
5:D:13:GLY:CA	5:D:38:LYS:CA	2.60	0.80
1:H:749:LEU:O	1:H:753:GLY:N	2.15	0.80
8:U:13:VAL:H	8:U:132:GLY:HA2	1.46	0.79
3:I:766:ASP:C	3:I:768:LEU:H	1.89	0.79
3:B:483:THR:O	3:B:486:ASP:N	2.17	0.78
3:I:483:THR:O	3:I:486:ASP:N	2.17	0.78
1:A:749:LEU:O	1:A:753:GLY:N	2.15	0.78
1:H:671:LYS:O	1:H:672:ASN:C	2.26	0.78
5:N:13:GLY:CA	5:N:38:LYS:CA	2.60	0.77
8:U:12:THR:N	8:U:132:GLY:HA3	2.00	0.77
7:G:301:ALA:C	7:G:303:LEU:N	2.41	0.77
7:G:277:LEU:O	7:G:280:CYS:N	2.16	0.76
4:J:637:VAL:O	4:J:638:SER:O	2.03	0.76
4:C:637:VAL:O	4:C:638:SER:O	2.03	0.76
1:A:671:LYS:O	1:A:672:ASN:C	2.26	0.76
1:H:671:LYS:C	1:H:673:CYS:N	2.39	0.75
8:Z:12:THR:N	8:Z:132:GLY:C	2.44	0.75
5:N:41:ASN:C	5:N:43:GLY:H	1.95	0.75
7:G:105:VAL:O	7:G:107:SER:N	2.17	0.75
8:Z:12:THR:H	8:Z:132:GLY:HA2	1.51	0.75
6:M:77:LEU:O	6:M:80:HIS:N	2.20	0.74
8:U:12:THR:N	8:U:132:GLY:C	2.44	0.74
3:I:766:ASP:C	3:I:768:LEU:N	2.45	0.74
6:T:77:LEU:O	6:T:80:HIS:N	2.20	0.74
7:G:247:ARG:O	7:G:248:ASP:C	2.24	0.74
7:G:167:LEU:C	7:G:170:SER:O	2.30	0.74
3:I:563:ASP:C	3:I:577:THR:C	2.55	0.73
4:J:269:TYR:C	4:J:271:MET:N	2.44	0.73
3:B:563:ASP:C	3:B:577:THR:C	2.55	0.73
5:D:41:ASN:C	5:D:43:GLY:H	1.95	0.73
1:H:800:PRO:O	4:J:805:PHE:O	2.05	0.73
8:U:10:LEU:O	8:U:11:TYR:C	2.32	0.73
1:A:671:LYS:C	1:A:673:CYS:N	2.39	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:143:LEU:O	6:R:145:LEU:N	2.22	0.72
6:R:174:SER:O	6:R:176:SER:N	2.21	0.72
1:A:800:PRO:O	4:C:805:PHE:O	2.05	0.72
8:Z:10:LEU:O	8:Z:11:TYR:C	2.32	0.72
8:U:12:THR:H	8:U:132:GLY:HA2	1.51	0.72
7:G:215:ILE:O	7:G:219:THR:N	2.22	0.72
3:I:928:LYS:O	3:I:934:PRO:O	2.08	0.71
6:P:29:GLY:HA2	6:P:32:THR:H	1.56	0.71
6:F:29:GLY:HA2	6:F:32:THR:H	1.56	0.71
8:Z:12:THR:N	8:Z:132:GLY:HA3	2.00	0.71
1:H:801:ILE:O	4:J:805:PHE:N	2.24	0.70
4:C:269:TYR:C	4:C:271:MET:N	2.44	0.70
6:R:71:GLN:C	6:R:74:ILE:H	2.00	0.70
1:H:496:TRP:CA	1:H:502:HIS:N	2.54	0.70
1:A:801:ILE:O	4:C:805:PHE:N	2.24	0.70
3:B:928:LYS:O	3:B:934:PRO:O	2.08	0.70
7:G:215:ILE:O	7:G:217:LYS:N	2.25	0.70
7:K:135:THR:C	7:K:137:LEU:H	2.00	0.70
1:A:496:TRP:CA	1:A:502:HIS:N	2.54	0.70
7:G:337:ASN:O	7:G:340:ILE:N	2.25	0.69
5:N:39:LEU:C	5:N:41:ASN:H	2.00	0.69
1:H:214:HIS:O	1:H:217:MET:CA	2.40	0.69
5:D:39:LEU:C	5:D:41:ASN:H	2.00	0.69
7:K:133:ASP:O	7:K:134:SER:O	2.10	0.69
3:B:766:ASP:C	3:B:768:LEU:N	2.45	0.69
7:Q:133:ASP:O	7:Q:134:SER:O	2.10	0.69
7:G:172:ASP:O	7:G:175:LYS:N	2.26	0.68
1:A:214:HIS:O	1:A:217:MET:CA	2.40	0.68
7:G:247:ARG:O	7:G:248:ASP:O	2.12	0.68
1:H:754:GLN:C	1:H:756:SER:H	2.02	0.67
7:Q:107:SER:CA	6:T:50:GLY:O	2.43	0.67
7:K:107:SER:CA	6:M:50:GLY:O	2.43	0.67
8:U:10:LEU:O	8:U:11:TYR:O	2.13	0.67
1:A:754:GLN:C	1:A:756:SER:H	2.02	0.67
7:Q:135:THR:C	7:Q:137:LEU:H	2.00	0.67
3:I:929:PRO:CA	3:I:935:ASP:O	2.44	0.66
8:Z:10:LEU:O	8:Z:11:TYR:O	2.13	0.66
1:H:214:HIS:O	1:H:217:MET:O	2.14	0.66
3:B:779:GLY:O	3:B:808:SER:O	2.14	0.66
3:I:779:GLY:O	3:I:808:SER:O	2.13	0.66
1:A:749:LEU:O	1:A:753:GLY:CA	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:929:PRO:CA	3:B:935:ASP:O	2.44	0.66
7:G:277:LEU:CA	7:G:280:CYS:CA	2.73	0.65
1:H:749:LEU:O	1:H:753:GLY:CA	2.44	0.65
3:B:739:ASP:O	3:B:740:PRO:C	2.38	0.65
6:R:71:GLN:O	6:R:72:ASP:C	2.39	0.65
1:A:214:HIS:O	1:A:217:MET:C	2.40	0.65
6:R:69:GLY:C	6:R:71:GLN:H	2.04	0.65
7:G:167:LEU:O	7:G:170:SER:O	2.15	0.65
3:I:739:ASP:O	3:I:740:PRO:C	2.38	0.65
1:A:214:HIS:O	1:A:217:MET:O	2.14	0.65
6:R:71:GLN:O	6:R:74:ILE:CA	2.44	0.65
3:I:112:GLU:O	3:I:114:ILE:N	2.30	0.65
3:B:112:GLU:O	3:B:114:ILE:N	2.30	0.64
7:G:172:ASP:O	7:G:173:VAL:C	2.36	0.64
3:I:563:ASP:C	3:I:577:THR:CA	2.71	0.64
1:H:214:HIS:O	1:H:217:MET:C	2.40	0.64
3:B:557:LEU:O	3:B:558:ARG:C	2.41	0.64
3:I:557:LEU:O	3:I:558:ARG:C	2.41	0.64
3:I:766:ASP:O	3:I:792:LEU:O	2.16	0.64
3:B:563:ASP:C	3:B:577:THR:CA	2.71	0.64
7:K:243:GLU:O	7:K:245:GLY:N	2.31	0.63
6:M:116:LEU:O	6:M:118:ASN:N	2.32	0.63
1:A:803:PRO:N	4:C:803:GLU:H	1.97	0.63
3:B:766:ASP:O	3:B:792:LEU:O	2.16	0.63
7:G:215:ILE:C	7:G:217:LYS:N	2.55	0.63
7:Q:243:GLU:O	7:Q:245:GLY:N	2.31	0.63
3:B:824:GLY:HA3	3:B:830:ASN:O	1.96	0.63
7:G:215:ILE:C	7:G:217:LYS:H	2.05	0.63
7:G:277:LEU:CA	7:G:280:CYS:C	2.72	0.63
6:T:116:LEU:O	6:T:118:ASN:N	2.32	0.63
6:M:24:GLY:O	6:M:68:VAL:O	2.17	0.62
6:R:82:TYR:O	6:R:83:ARG:C	2.39	0.62
7:Q:107:SER:CA	6:T:50:GLY:CA	2.75	0.62
1:H:227:ARG:O	1:H:245:CYS:O	2.18	0.62
6:T:24:GLY:O	6:T:68:VAL:O	2.17	0.62
3:I:824:GLY:HA3	3:I:830:ASN:O	1.96	0.62
3:B:563:ASP:C	3:B:577:THR:O	2.43	0.62
1:A:671:LYS:C	1:A:673:CYS:H	2.06	0.62
3:I:563:ASP:C	3:I:577:THR:O	2.43	0.62
8:Z:11:TYR:C	8:Z:132:GLY:CA	2.69	0.61
1:A:227:ARG:O	1:A:245:CYS:O	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:107:SER:CA	6:M:50:GLY:CA	2.75	0.61
1:H:803:PRO:N	4:J:803:GLU:H	1.97	0.61
4:C:269:TYR:O	4:C:271:MET:CA	2.49	0.61
3:B:899:LEU:O	3:B:900:SER:C	2.43	0.61
1:H:671:LYS:C	1:H:673:CYS:H	2.06	0.61
7:G:337:ASN:O	7:G:338:ARG:C	2.39	0.61
4:J:269:TYR:O	4:J:271:MET:CA	2.49	0.61
4:J:269:TYR:C	4:J:271:MET:H	2.02	0.61
3:I:899:LEU:O	3:I:900:SER:C	2.44	0.60
1:A:205:ASP:H	1:A:207:GLY:H	1.49	0.60
4:C:269:TYR:C	4:C:271:MET:H	2.02	0.60
4:C:506:THR:C	4:C:509:GLY:H	2.10	0.60
8:U:11:TYR:C	8:U:132:GLY:CA	2.69	0.60
7:K:135:THR:O	7:K:137:LEU:N	2.35	0.60
4:J:506:THR:C	4:J:509:GLY:H	2.10	0.60
7:Q:135:THR:O	7:Q:137:LEU:N	2.35	0.60
3:B:102:LYS:C	3:B:104:THR:H	2.09	0.59
7:G:198:GLY:C	7:G:201:TYR:H	2.07	0.59
7:G:215:ILE:O	7:G:218:PHE:N	2.36	0.59
1:H:205:ASP:H	1:H:207:GLY:H	1.49	0.59
6:R:159:CYS:O	6:R:162:SER:CA	2.50	0.59
6:T:128:GLN:H	6:T:159:CYS:CA	2.16	0.59
3:B:740:PRO:O	3:B:742:TYR:N	2.35	0.59
6:M:128:GLN:H	6:M:159:CYS:CA	2.16	0.59
3:I:102:LYS:C	3:I:104:THR:H	2.10	0.58
7:G:198:GLY:C	7:G:200:LEU:N	2.58	0.58
4:J:174:SER:C	4:J:176:SER:H	2.12	0.58
3:B:526:VAL:CA	3:B:597:VAL:N	2.67	0.58
3:I:740:PRO:O	3:I:742:TYR:N	2.35	0.58
3:I:112:GLU:C	3:I:114:ILE:H	2.12	0.58
6:M:25:LEU:C	6:M:69:GLY:HA2	2.29	0.58
6:T:78:TRP:O	6:T:79:ARG:C	2.46	0.58
6:T:47:PRO:C	6:T:69:GLY:HA3	2.29	0.57
1:H:754:GLN:C	1:H:756:SER:N	2.62	0.57
3:B:504:VAL:O	3:B:507:GLU:N	2.37	0.57
3:B:112:GLU:C	3:B:114:ILE:H	2.12	0.57
6:M:47:PRO:C	6:M:69:GLY:HA3	2.29	0.57
3:I:526:VAL:CA	3:I:597:VAL:N	2.67	0.57
6:T:25:LEU:C	6:T:69:GLY:HA2	2.29	0.57
1:A:754:GLN:O	1:A:756:SER:N	2.38	0.57
7:G:274:ILE:O	7:G:275:VAL:C	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:541:ALA:N	3:B:624:ASP:N	2.53	0.56
7:G:387:CYS:O	7:G:391:PRO:CA	2.53	0.56
6:R:71:GLN:C	6:R:73:ARG:N	2.60	0.56
1:H:495:ILE:O	1:H:502:HIS:C	2.49	0.56
1:H:754:GLN:O	1:H:756:SER:N	2.38	0.56
7:Q:135:THR:C	7:Q:137:LEU:N	2.58	0.56
7:G:277:LEU:CA	7:G:280:CYS:N	2.69	0.56
7:K:274:ILE:O	7:K:276:ASN:N	2.39	0.56
3:I:779:GLY:HA2	3:I:811:ASN:H	1.70	0.56
1:A:495:ILE:O	1:A:502:HIS:C	2.49	0.56
3:B:767:THR:O	3:B:768:LEU:C	2.49	0.56
5:N:41:ASN:C	5:N:43:GLY:N	2.60	0.56
3:B:779:GLY:HA2	3:B:811:ASN:H	1.70	0.56
6:R:135:SER:O	6:R:136:ALA:C	2.48	0.56
7:Q:274:ILE:O	7:Q:276:ASN:N	2.39	0.56
3:I:504:VAL:O	3:I:507:GLU:N	2.37	0.55
6:R:69:GLY:O	6:R:71:GLN:N	2.34	0.55
4:C:174:SER:C	4:C:176:SER:H	2.12	0.55
6:M:78:TRP:O	6:M:79:ARG:C	2.46	0.55
6:M:173:LEU:C	6:M:175:ASN:H	2.15	0.55
3:I:541:ALA:N	3:I:624:ASP:N	2.53	0.55
7:G:172:ASP:C	7:G:175:LYS:H	2.14	0.55
4:J:269:TYR:O	4:J:270:GLY:C	2.48	0.55
3:I:324:LYS:C	3:I:326:HIS:H	2.15	0.55
7:Q:665:CYS:O	7:Q:703:PRO:CA	2.55	0.54
1:A:496:TRP:CA	1:A:502:HIS:H	2.20	0.54
3:B:928:LYS:C	3:B:934:PRO:O	2.51	0.54
7:G:198:GLY:O	7:G:199:LEU:C	2.49	0.54
3:I:928:LYS:C	3:I:934:PRO:O	2.51	0.54
5:N:39:LEU:C	5:N:41:ASN:N	2.66	0.54
7:G:106:THR:CA	6:R:50:GLY:HA3	2.36	0.54
7:G:726:CYS:O	7:G:753:LEU:O	2.25	0.54
7:Q:107:SER:H	6:T:50:GLY:HA3	0.67	0.54
4:C:568:PRO:C	4:C:571:ASN:H	2.16	0.54
7:K:665:CYS:O	7:K:703:PRO:CA	2.56	0.54
6:T:173:LEU:C	6:T:175:ASN:H	2.15	0.54
4:C:375:TYR:O	4:C:388:PHE:CA	2.56	0.54
3:I:767:THR:O	3:I:768:LEU:C	2.49	0.54
1:H:343:GLN:CA	1:H:354:VAL:H	2.21	0.53
3:B:324:LYS:C	3:B:326:HIS:H	2.15	0.53
1:A:343:GLN:N	1:A:354:VAL:H	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:277:LEU:C	7:G:280:CYS:N	2.66	0.53
1:A:343:GLN:CA	1:A:354:VAL:H	2.21	0.53
3:B:767:THR:CA	3:B:792:LEU:N	2.65	0.53
4:J:568:PRO:C	4:J:571:ASN:H	2.16	0.53
6:F:149:ARG:C	6:F:151:ARG:H	2.15	0.53
4:J:375:TYR:O	4:J:388:PHE:CA	2.56	0.53
1:H:321:ARG:H	1:H:338:ASP:CA	2.22	0.53
5:D:42:THR:O	5:D:43:GLY:C	2.50	0.53
3:I:767:THR:CA	3:I:792:LEU:C	2.83	0.52
7:G:247:ARG:O	7:G:251:LEU:N	2.37	0.52
7:G:666:THR:O	7:G:667:ASN:C	2.49	0.52
4:J:637:VAL:O	4:J:638:SER:C	2.52	0.52
4:C:637:VAL:O	4:C:638:SER:C	2.52	0.52
7:G:246:SER:C	7:G:248:ASP:N	2.66	0.52
7:G:666:THR:O	7:G:668:THR:N	2.43	0.52
1:A:321:ARG:H	1:A:338:ASP:CA	2.22	0.52
3:I:767:THR:CA	3:I:793:ALA:N	2.73	0.52
1:H:802:MET:O	4:J:804:ALA:CA	2.58	0.52
1:A:802:MET:O	4:C:804:ALA:CA	2.58	0.52
7:G:665:CYS:O	7:G:703:PRO:CA	2.57	0.52
1:H:343:GLN:N	1:H:354:VAL:H	2.06	0.52
5:N:42:THR:O	5:N:43:GLY:C	2.50	0.52
6:T:173:LEU:C	6:T:175:ASN:N	2.68	0.52
3:B:767:THR:CA	3:B:793:ALA:N	2.73	0.52
6:M:173:LEU:C	6:M:175:ASN:N	2.68	0.52
1:H:496:TRP:CA	1:H:502:HIS:H	2.20	0.52
3:B:767:THR:CA	3:B:792:LEU:C	2.83	0.51
7:K:666:THR:O	7:K:667:ASN:C	2.53	0.51
3:I:767:THR:CA	3:I:792:LEU:N	2.65	0.51
7:Q:666:THR:O	7:Q:667:ASN:C	2.53	0.51
1:A:754:GLN:C	1:A:756:SER:N	2.62	0.51
7:Q:274:ILE:O	7:Q:275:VAL:C	2.52	0.51
4:C:86:TYR:C	4:C:88:THR:H	2.19	0.51
7:K:274:ILE:O	7:K:275:VAL:C	2.52	0.51
6:M:77:LEU:O	6:M:80:HIS:CA	2.59	0.51
6:R:71:GLN:O	6:R:73:ARG:N	2.43	0.51
6:P:149:ARG:C	6:P:151:ARG:H	2.16	0.51
7:Q:244:ASP:O	7:Q:245:GLY:C	2.54	0.51
3:B:483:THR:O	3:B:484:LYS:O	2.28	0.51
6:T:77:LEU:O	6:T:80:HIS:CA	2.59	0.51
7:K:135:THR:O	7:K:136:MET:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:127:LYS:H	6:R:159:CYS:CA	2.24	0.51
4:J:86:TYR:C	4:J:88:THR:H	2.19	0.50
7:K:665:CYS:O	7:K:702:GLN:C	2.54	0.50
7:Q:243:GLU:C	7:Q:245:GLY:N	2.69	0.50
7:K:244:ASP:O	7:K:245:GLY:C	2.54	0.50
7:G:211:VAL:O	7:G:215:ILE:N	2.45	0.50
3:I:751:GLN:C	3:I:753:ASP:H	2.19	0.50
3:B:751:GLN:C	3:B:753:ASP:H	2.19	0.50
4:J:459:ARG:CA	4:J:509:GLY:HA3	2.42	0.50
7:K:695:ALA:O	7:K:696:ARG:C	2.55	0.50
7:Q:135:THR:O	7:Q:136:MET:C	2.54	0.50
4:C:459:ARG:CA	4:C:509:GLY:HA3	2.42	0.49
5:D:39:LEU:C	5:D:41:ASN:N	2.66	0.49
7:G:172:ASP:C	7:G:174:VAL:N	2.66	0.49
3:I:483:THR:O	3:I:484:LYS:O	2.28	0.49
7:K:243:GLU:C	7:K:245:GLY:N	2.69	0.49
7:Q:665:CYS:O	7:Q:702:GLN:C	2.54	0.49
6:R:159:CYS:C	6:R:161:THR:N	2.68	0.49
6:R:69:GLY:C	6:R:71:GLN:N	2.65	0.49
7:K:273:ALA:C	7:K:275:VAL:H	2.21	0.49
3:B:762:ASN:C	3:B:764:THR:H	2.18	0.48
7:Q:172:ASP:O	7:Q:175:LYS:N	2.46	0.48
7:G:277:LEU:CA	7:G:280:CYS:H	2.26	0.48
4:J:375:TYR:N	4:J:389:GLY:O	2.41	0.48
7:G:441:GLU:O	7:G:444:GLU:O	2.32	0.48
7:Q:273:ALA:C	7:Q:275:VAL:H	2.21	0.48
7:G:107:SER:CA	6:R:50:GLY:HA3	2.24	0.48
7:Q:133:ASP:O	7:Q:134:SER:C	2.53	0.48
7:G:460:GLY:HA2	7:G:494:ALA:CA	2.44	0.48
7:K:172:ASP:O	7:K:175:LYS:N	2.46	0.48
3:B:112:GLU:C	3:B:114:ILE:N	2.72	0.48
7:Q:666:THR:O	7:Q:668:THR:N	2.47	0.47
7:Q:695:ALA:O	7:Q:696:ARG:C	2.55	0.47
3:I:112:GLU:C	3:I:114:ILE:N	2.72	0.47
3:B:482:SER:C	3:B:484:LYS:N	2.71	0.47
7:K:666:THR:O	7:K:668:THR:N	2.47	0.47
7:G:116:LYS:O	7:G:118:ASP:N	2.48	0.47
7:G:301:ALA:O	7:G:303:LEU:N	2.48	0.47
3:B:779:GLY:O	3:B:808:SER:C	2.58	0.47
7:G:176:ARG:C	7:G:178:VAL:H	2.21	0.47
3:I:779:GLY:O	3:I:808:SER:C	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:267:LEU:C	3:B:269:GLN:H	2.24	0.46
7:K:133:ASP:O	7:K:134:SER:C	2.53	0.46
3:I:267:LEU:C	3:I:269:GLN:H	2.23	0.46
7:G:276:ASN:O	7:G:281:SER:C	2.56	0.46
7:G:665:CYS:O	7:G:703:PRO:N	2.48	0.46
5:N:62:GLU:C	5:N:64:LEU:H	2.23	0.46
3:B:842:MET:O	3:B:888:THR:O	2.34	0.46
6:R:109:ARG:C	6:R:112:ASN:H	2.23	0.46
7:K:665:CYS:O	7:K:702:GLN:O	2.34	0.46
4:C:233:SER:H	4:C:248:SER:CA	2.28	0.46
3:I:842:MET:O	3:I:888:THR:O	2.34	0.46
3:I:762:ASN:C	3:I:764:THR:H	2.18	0.46
4:J:233:SER:H	4:J:248:SER:CA	2.29	0.46
5:D:62:GLU:C	5:D:64:LEU:H	2.23	0.45
7:G:215:ILE:O	7:G:216:SER:C	2.60	0.45
7:G:298:SER:O	7:G:300:LYS:N	2.50	0.45
6:R:25:LEU:C	6:R:70:GLY:H	2.24	0.45
7:Q:166:LEU:O	7:Q:170:SER:N	2.42	0.45
1:H:373:ALA:C	1:H:375:ASN:N	2.75	0.45
7:Q:665:CYS:O	7:Q:702:GLN:O	2.34	0.45
1:H:321:ARG:N	1:H:338:ASP:O	2.50	0.45
6:R:160:ALA:C	6:R:163:GLY:H	2.24	0.44
4:C:375:TYR:N	4:C:389:GLY:O	2.41	0.44
7:G:726:CYS:O	7:G:753:LEU:N	2.44	0.44
3:I:482:SER:C	3:I:484:LYS:N	2.71	0.44
7:G:277:LEU:C	7:G:280:CYS:H	2.24	0.44
7:Q:107:SER:CA	6:T:50:GLY:C	2.91	0.44
1:A:373:ALA:C	1:A:375:ASN:N	2.75	0.44
1:A:9:SER:C	1:A:313:GLY:HA2	2.43	0.43
7:K:226:PRO:O	7:K:229:TYR:N	2.51	0.43
8:L:49:PHE:O	8:L:53:HIS:N	2.51	0.43
1:H:9:SER:C	1:H:313:GLY:HA2	2.43	0.43
6:F:29:GLY:CA	6:F:32:THR:H	2.26	0.43
7:K:181:ALA:O	7:K:185:ALA:N	2.51	0.43
1:H:502:HIS:C	1:H:504:ALA:H	2.27	0.43
1:H:749:LEU:O	1:H:753:GLY:HA2	2.18	0.43
7:Q:171:PHE:O	7:Q:174:VAL:N	2.52	0.43
1:A:321:ARG:N	1:A:338:ASP:O	2.50	0.43
4:C:257:HIS:C	4:C:259:SER:H	2.26	0.43
4:C:484:SER:CA	4:C:522:GLU:H	2.32	0.43
4:C:715:LEU:O	4:C:719:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:171:PHE:O	7:K:174:VAL:N	2.52	0.43
7:Q:181:ALA:O	7:Q:185:ALA:N	2.51	0.43
7:K:107:SER:CA	6:M:50:GLY:C	2.91	0.43
7:K:135:THR:C	7:K:137:LEU:N	2.58	0.43
6:P:29:GLY:CA	6:P:32:THR:H	2.26	0.43
1:A:502:HIS:C	1:A:504:ALA:H	2.27	0.43
4:C:280:LEU:C	4:C:283:SER:H	2.27	0.43
7:G:430:GLU:C	7:G:432:LYS:H	2.26	0.43
7:G:274:ILE:O	7:G:275:VAL:O	2.37	0.43
7:K:107:SER:H	6:M:50:GLY:HA3	0.67	0.43
4:J:280:LEU:C	4:J:283:SER:H	2.27	0.43
8:S:46:LYS:O	8:S:47:ASN:C	2.59	0.43
1:A:749:LEU:O	1:A:753:GLY:HA2	2.18	0.42
7:G:246:SER:C	7:G:248:ASP:H	2.27	0.42
4:J:484:SER:CA	4:J:522:GLU:H	2.32	0.42
4:J:510:ILE:C	4:J:512:ASP:H	2.27	0.42
7:G:107:SER:N	6:R:50:GLY:O	2.52	0.42
4:J:257:HIS:C	4:J:259:SER:H	2.26	0.42
8:S:49:PHE:O	8:S:53:HIS:N	2.51	0.42
7:G:529:THR:O	7:G:533:ASN:N	2.52	0.42
7:K:200:LEU:O	7:K:201:TYR:C	2.60	0.42
3:B:780:ASP:C	3:B:808:SER:N	2.78	0.42
4:C:510:ILE:C	4:C:512:ASP:H	2.27	0.42
7:Q:226:PRO:O	7:Q:229:TYR:N	2.51	0.42
6:R:70:GLY:O	6:R:72:ASP:N	2.52	0.42
4:J:715:LEU:O	4:J:719:ALA:N	2.51	0.42
4:J:690:LEU:O	4:J:694:GLN:N	2.53	0.42
7:G:702:GLN:O	7:G:703:PRO:C	2.60	0.42
4:J:842:PHE:O	4:J:843:GLN:C	2.62	0.42
4:C:690:LEU:O	4:C:694:GLN:N	2.53	0.42
4:C:842:PHE:O	4:C:843:GLN:C	2.62	0.42
6:M:27:GLY:C	6:M:45:THR:O	2.63	0.42
3:I:780:ASP:C	3:I:808:SER:N	2.78	0.42
7:K:232:MET:O	7:K:236:ALA:N	2.53	0.41
8:L:46:LYS:O	8:L:47:ASN:C	2.59	0.41
3:I:866:ASN:O	3:I:944:ILE:O	2.39	0.41
8:U:12:THR:N	8:U:132:GLY:HA2	2.20	0.41
6:R:130:LEU:C	6:R:132:GLU:N	2.51	0.41
7:Q:200:LEU:O	7:Q:201:TYR:C	2.60	0.41
7:Q:232:MET:O	7:Q:236:ALA:N	2.53	0.41
3:B:135:THR:O	3:B:139:LEU:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:27:GLY:H	6:M:46:ILE:CA	2.34	0.41
3:I:135:THR:O	3:I:139:LEU:N	2.52	0.41
3:I:779:GLY:N	3:I:809:THR:O	2.22	0.41
4:J:163:LEU:C	4:J:165:ARG:N	2.78	0.41
6:F:93:ASP:C	6:F:95:ASN:H	2.29	0.41
4:C:371:GLY:C	4:C:373:GLY:H	2.29	0.41
3:B:767:THR:CA	3:B:793:ALA:CA	2.99	0.41
3:B:866:ASN:O	3:B:944:ILE:O	2.39	0.41
7:G:105:VAL:C	7:G:107:SER:N	2.79	0.41
6:P:93:ASP:C	6:P:95:ASN:H	2.29	0.41
7:G:522:ASN:C	7:G:525:ARG:H	2.29	0.41
6:R:82:TYR:C	6:R:83:ARG:O	2.61	0.41
7:K:182:GLN:C	7:K:185:ALA:H	2.28	0.41
1:H:598:LYS:O	1:H:602:ALA:N	2.54	0.41
3:I:767:THR:CA	3:I:793:ALA:CA	2.99	0.41
4:J:213:ILE:O	4:J:222:VAL:N	2.54	0.41
1:A:598:LYS:O	1:A:602:ALA:N	2.54	0.41
3:B:122:LYS:O	3:B:126:HIS:N	2.54	0.41
3:B:767:THR:C	3:B:792:LEU:N	2.65	0.40
4:J:15:SER:H	4:J:293:GLY:HA2	1.86	0.40
4:J:566:TYR:CA	4:J:572:ARG:O	2.69	0.40
7:Q:182:GLN:C	7:Q:185:ALA:H	2.29	0.40
7:Q:214:MET:C	7:Q:217:LYS:H	2.29	0.40
4:C:269:TYR:O	4:C:270:GLY:C	2.48	0.40
7:K:214:MET:C	7:K:217:LYS:H	2.29	0.40
4:C:15:SER:H	4:C:293:GLY:HA2	1.86	0.40
4:C:213:ILE:O	4:C:222:VAL:N	2.54	0.40
6:R:159:CYS:C	6:R:162:SER:H	2.21	0.40
3:B:782:LYS:N	3:B:805:LYS:O	2.55	0.40
6:T:27:GLY:C	6:T:45:THR:O	2.63	0.40
6:T:79:ARG:O	6:T:81:TYR:O	2.39	0.40
3:B:767:THR:C	3:B:768:LEU:O	2.64	0.40
4:C:566:TYR:CA	4:C:572:ARG:O	2.69	0.40
6:T:27:GLY:H	6:T:46:ILE:CA	2.34	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	1122/1262 (89%)	891 (79%)	120 (11%)	111 (10%)	0	7
1	H	1122/1262 (89%)	891 (79%)	119 (11%)	112 (10%)	0	7
2	E	290/308 (94%)	276 (95%)	9 (3%)	5 (2%)	7	36
2	O	290/308 (94%)	276 (95%)	9 (3%)	5 (2%)	7	36
3	B	790/968 (82%)	648 (82%)	68 (9%)	74 (9%)	0	8
3	I	790/968 (82%)	648 (82%)	68 (9%)	74 (9%)	0	8
4	C	841/905 (93%)	681 (81%)	91 (11%)	69 (8%)	0	9
4	J	841/905 (93%)	680 (81%)	92 (11%)	69 (8%)	0	9
5	D	421/511 (82%)	386 (92%)	20 (5%)	15 (4%)	2	20
5	N	173/511 (34%)	144 (83%)	16 (9%)	13 (8%)	1	10
6	F	157/181 (87%)	134 (85%)	14 (9%)	9 (6%)	1	14
6	M	157/181 (87%)	127 (81%)	12 (8%)	18 (12%)	0	5
6	P	157/181 (87%)	134 (85%)	14 (9%)	9 (6%)	1	14
6	R	157/181 (87%)	120 (76%)	17 (11%)	20 (13%)	0	4
6	T	157/181 (87%)	127 (81%)	12 (8%)	18 (12%)	0	5
7	G	794/874 (91%)	678 (85%)	61 (8%)	55 (7%)	1	11
7	K	556/874 (64%)	475 (85%)	43 (8%)	38 (7%)	1	11
7	Q	556/874 (64%)	475 (85%)	43 (8%)	38 (7%)	1	11
8	L	137/177 (77%)	117 (85%)	11 (8%)	9 (7%)	1	12
8	S	137/177 (77%)	117 (85%)	11 (8%)	9 (7%)	1	12
8	U	137/177 (77%)	119 (87%)	11 (8%)	7 (5%)	1	15
8	Z	137/177 (77%)	119 (87%)	11 (8%)	7 (5%)	1	15
All	All	9919/12143 (82%)	8263 (83%)	872 (9%)	784 (8%)	1	10

All (784) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	63	GLN
1	A	64	PRO
1	A	92	HIS
1	A	106	PRO
1	A	125	ARG
1	A	169	LYS
1	A	174	PRO
1	A	187	VAL
1	A	215	PRO
1	A	237	SER
1	A	250	ASN
1	A	252	VAL
1	A	271	LYS
1	A	278	MET
1	A	281	ARG
1	A	324	PRO
1	A	325	ALA
1	A	341	LEU
1	A	343	GLN
1	A	384	SER
1	A	454	ASP
1	A	457	PHE
1	A	466	LEU
1	A	479	GLN
1	A	492	LYS
1	A	566	LEU
1	A	583	ARG
1	A	584	GLU
1	A	592	ILE
1	A	593	ASP
1	A	619	LYS
1	A	642	VAL
1	A	671	LYS
1	A	728	ASP
1	A	779	ASP
1	A	788	ILE
1	A	796	GLN
1	A	797	PRO
1	A	798	PRO
1	A	803	PRO
1	A	805	ASP
1	A	811	LEU
1	A	949	VAL

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Mol	Chain	Res	Type
1	A	999	VAL
2	E	111	SER
2	E	231	ARG
3	B	36	PRO
3	B	68	GLU
3	B	109	LEU
3	B	111	HIS
3	B	113	MET
3	B	254	PRO
3	B	255	SER
3	B	329	HIS
3	B	348	ASP
3	B	367	ASN
3	B	385	VAL
3	B	386	SER
3	B	466	SER
3	B	480	TYR
3	B	484	LYS
3	B	500	GLU
3	B	501	ILE
3	B	502	PRO
3	B	503	ILE
3	B	505	GLU
3	B	521	ILE
3	B	522	THR
3	B	547	PRO
3	B	767	THR
3	B	771	CYS
3	B	826	ALA
3	B	831	CYS
3	B	865	GLU
3	B	899	LEU
3	B	929	PRO
3	B	930	VAL
3	B	934	PRO
3	B	935	ASP
3	B	938	VAL
4	C	27	GLU
4	C	89	LEU
4	C	200	PRO
4	C	228	HIS
4	C	270	GLY

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Mol	Chain	Res	Type
4	C	273	ARG
4	C	325	ALA
4	C	326	ASN
4	C	328	LYS
4	C	329	ALA
4	C	332	ASP
4	C	350	SER
4	C	363	ASN
4	C	365	ARG
4	C	400	SER
4	C	410	SER
4	C	411	ILE
4	C	424	PHE
4	C	451	ASP
4	C	462	GLU
4	C	475	GLU
4	C	484	SER
4	C	502	HIS
4	C	614	PRO
4	C	615	LYS
4	C	638	SER
4	C	762	LEU
4	C	781	ASN
4	C	782	GLN
4	C	789	ALA
4	C	790	ASP
4	C	806	VAL
4	C	825	PRO
4	C	833	ARG
5	D	12	ALA
5	D	44	LYS
5	D	73	ASN
5	D	96	ALA
6	F	97	ARG
6	F	117	ARG
6	F	131	PRO
7	G	77	PHE
7	G	100	GLU
7	G	106	THR
7	G	132	THR
7	G	151	LYS
7	G	171	PHE

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Mol	Chain	Res	Type
7	G	243	GLU
7	G	261	ASN
7	G	275	VAL
7	G	277	LEU
7	G	283	LYS
7	G	299	PRO
7	G	373	ASP
7	G	394	HIS
7	G	446	CYS
7	G	484	HIS
7	G	608	THR
7	G	621	PRO
7	G	686	ALA
7	G	741	GLU
6	R	42	VAL
6	R	43	ILE
6	R	130	LEU
6	R	131	PRO
6	R	145	LEU
6	R	147	SER
6	R	151	ARG
6	R	175	ASN
8	Z	36	PRO
8	Z	37	SER
8	Z	84	TYR
7	K	134	SER
7	K	135	THR
7	K	170	SER
7	K	171	PHE
7	K	207	ASP
7	K	221	HIS
7	K	225	SER
7	K	226	PRO
7	K	227	PHE
7	K	243	GLU
7	K	275	VAL
7	K	299	PRO
7	K	608	THR
7	K	621	PRO
7	K	741	GLU
7	K	813	CYS
8	L	37	SER

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Mol	Chain	Res	Type
8	L	84	TYR
8	L	147	ALA
6	M	42	VAL
6	M	43	ILE
6	M	44	THR
6	M	51	PHE
6	M	71	GLN
6	M	80	HIS
6	M	118	ASN
6	M	149	ARG
1	H	63	GLN
1	H	64	PRO
1	H	92	HIS
1	H	106	PRO
1	H	125	ARG
1	H	169	LYS
1	H	174	PRO
1	H	187	VAL
1	H	215	PRO
1	H	237	SER
1	H	250	ASN
1	H	252	VAL
1	H	271	LYS
1	H	278	MET
1	H	281	ARG
1	H	324	PRO
1	H	325	ALA
1	H	341	LEU
1	H	343	GLN
1	H	384	SER
1	H	454	ASP
1	H	457	PHE
1	H	466	LEU
1	H	479	GLN
1	H	492	LYS
1	H	566	LEU
1	H	583	ARG
1	H	584	GLU
1	H	592	ILE
1	H	593	ASP
1	H	619	LYS
1	H	642	VAL

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Mol	Chain	Res	Type
1	H	671	LYS
1	H	728	ASP
1	H	779	ASP
1	H	788	ILE
1	H	796	GLN
1	H	797	PRO
1	H	798	PRO
1	H	803	PRO
1	H	805	ASP
1	H	811	LEU
1	H	949	VAL
1	H	999	VAL
2	O	111	SER
2	O	231	ARG
3	I	36	PRO
3	I	68	GLU
3	I	109	LEU
3	I	111	HIS
3	I	113	MET
3	I	254	PRO
3	I	255	SER
3	I	329	HIS
3	I	348	ASP
3	I	367	ASN
3	I	385	VAL
3	I	386	SER
3	I	466	SER
3	I	480	TYR
3	I	484	LYS
3	I	500	GLU
3	I	501	ILE
3	I	502	PRO
3	I	503	ILE
3	I	505	GLU
3	I	521	ILE
3	I	522	THR
3	I	547	PRO
3	I	767	THR
3	I	771	CYS
3	I	826	ALA
3	I	831	CYS
3	I	865	GLU

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Mol	Chain	Res	Type
3	I	899	LEU
3	I	929	PRO
3	I	930	VAL
3	I	934	PRO
3	I	935	ASP
3	I	938	VAL
4	J	27	GLU
4	J	89	LEU
4	J	200	PRO
4	J	228	HIS
4	J	270	GLY
4	J	273	ARG
4	J	325	ALA
4	J	326	ASN
4	J	328	LYS
4	J	329	ALA
4	J	332	ASP
4	J	350	SER
4	J	363	ASN
4	J	365	ARG
4	J	400	SER
4	J	410	SER
4	J	411	ILE
4	J	424	PHE
4	J	451	ASP
4	J	462	GLU
4	J	475	GLU
4	J	484	SER
4	J	502	HIS
4	J	614	PRO
4	J	615	LYS
4	J	638	SER
4	J	762	LEU
4	J	781	ASN
4	J	782	GLN
4	J	789	ALA
4	J	790	ASP
4	J	806	VAL
4	J	825	PRO
4	J	833	ARG
5	N	12	ALA
5	N	44	LYS

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Mol	Chain	Res	Type
5	N	73	ASN
5	N	96	ALA
6	P	97	ARG
6	P	117	ARG
6	P	131	PRO
8	U	36	PRO
8	U	37	SER
8	U	84	TYR
7	Q	134	SER
7	Q	135	THR
7	Q	170	SER
7	Q	171	PHE
7	Q	207	ASP
7	Q	221	HIS
7	Q	225	SER
7	Q	226	PRO
7	Q	227	PHE
7	Q	243	GLU
7	Q	275	VAL
7	Q	299	PRO
7	Q	608	THR
7	Q	621	PRO
7	Q	686	ALA
7	Q	741	GLU
7	Q	813	CYS
8	S	37	SER
8	S	84	TYR
8	S	147	ALA
6	T	42	VAL
6	T	43	ILE
6	T	44	THR
6	T	51	PHE
6	T	71	GLN
6	T	80	HIS
6	T	118	ASN
6	T	149	ARG
1	A	10	ALA
1	A	185	THR
1	A	282	THR
1	A	290	ASP
1	A	345	ASP
1	A	373	ALA

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Mol	Chain	Res	Type
1	A	425	ARG
1	A	498	ALA
1	A	546	SER
1	A	564	LEU
1	A	572	ARG
1	A	622	GLY
1	A	624	SER
1	A	632	LYS
1	A	672	ASN
1	A	787	ASP
1	A	800	PRO
1	A	1178	ARG
3	B	49	ASP
3	B	69	LYS
3	B	162	ARG
3	B	186	PRO
3	B	383	ASN
3	B	445	ARG
3	B	498	LEU
3	B	499	GLY
3	B	551	GLU
3	B	740	PRO
3	B	741	VAL
3	B	751	GLN
3	B	764	THR
3	B	828	ASP
3	B	838	HIS
3	B	862	PHE
3	B	873	ASN
3	B	939	THR
4	C	88	THR
4	C	219	LYS
4	C	428	PHE
4	C	465	PRO
4	C	503	GLU
4	C	504	GLY
4	C	558	ASP
4	C	665	GLU
4	C	787	SER
4	C	793	GLU
4	C	797	LEU
5	D	24	MET

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Mol	Chain	Res	Type
5	D	25	THR
5	D	42	THR
5	D	98	GLU
5	D	136	MET
5	D	387	ASN
5	D	442	LEU
7	G	96	SER
7	G	98	ILE
7	G	105	VAL
7	G	116	LYS
7	G	216	SER
7	G	278	PRO
7	G	310	THR
7	G	463	GLY
7	G	467	ASN
7	G	522	ASN
7	G	633	SER
7	G	718	THR
6	R	72	ASP
6	R	82	TYR
6	R	84	ASN
6	R	95	ASN
6	R	132	GLU
6	R	133	ALA
8	Z	73	ILE
7	K	38	PRO
7	K	116	LYS
7	K	245	GLY
7	K	297	SER
7	K	633	SER
7	K	686	ALA
7	K	718	THR
8	L	12	THR
8	L	69	TYR
8	L	132	GLY
6	M	70	GLY
6	M	129	ASP
6	M	164	GLU
1	H	10	ALA
1	H	185	THR
1	H	282	THR
1	H	290	ASP

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Mol	Chain	Res	Type
1	H	345	ASP
1	H	373	ALA
1	H	425	ARG
1	H	498	ALA
1	H	546	SER
1	H	564	LEU
1	H	572	ARG
1	H	622	GLY
1	H	624	SER
1	H	632	LYS
1	H	672	ASN
1	H	787	ASP
1	H	800	PRO
1	H	1178	ARG
3	I	49	ASP
3	I	69	LYS
3	I	162	ARG
3	I	186	PRO
3	I	383	ASN
3	I	445	ARG
3	I	498	LEU
3	I	499	GLY
3	I	551	GLU
3	I	740	PRO
3	I	741	VAL
3	I	751	GLN
3	I	764	THR
3	I	828	ASP
3	I	838	HIS
3	I	862	PHE
3	I	873	ASN
3	I	939	THR
4	J	88	THR
4	J	219	LYS
4	J	428	PHE
4	J	465	PRO
4	J	503	GLU
4	J	504	GLY
4	J	558	ASP
4	J	665	GLU
4	J	787	SER
4	J	793	GLU

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Mol	Chain	Res	Type
4	J	797	LEU
5	N	24	MET
5	N	25	THR
5	N	42	THR
5	N	98	GLU
5	N	136	MET
8	U	73	ILE
7	Q	38	PRO
7	Q	116	LYS
7	Q	245	GLY
7	Q	297	SER
7	Q	633	SER
7	Q	718	THR
8	S	12	THR
8	S	69	TYR
8	S	132	GLY
6	T	70	GLY
6	T	129	ASP
6	T	164	GLU
1	A	61	LYS
1	A	62	GLN
1	A	168	ARG
1	A	176	ALA
1	A	183	GLY
1	A	218	PRO
1	A	251	ASN
1	A	323	ARG
1	A	340	PHE
1	A	349	SER
1	A	362	LYS
1	A	433	HIS
1	A	481	ARG
1	A	527	ASN
1	A	555	THR
1	A	585	CYS
1	A	686	ASN
1	A	731	GLY
1	A	755	LYS
3	B	216	ASP
3	B	779	GLY
3	B	871	ASN
4	C	140	GLY

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Mol	Chain	Res	Type
4	C	156	ASN
4	C	250	ASP
4	C	259	SER
4	C	351	CYS
4	C	408	SER
4	C	454	ASN
4	C	708	ASN
4	C	763	PRO
5	D	46	HIS
5	D	138	SER
6	F	47	PRO
6	F	84	ASN
6	F	149	ARG
7	G	170	SER
7	G	282	ALA
7	G	297	SER
7	G	391	PRO
7	G	393	LYS
7	G	445	ASP
7	G	447	GLU
7	G	504	GLU
7	G	505	MET
7	G	628	PRO
7	G	641	GLU
7	G	687	TYR
7	G	720	VAL
7	G	761	ALA
6	R	114	ASP
8	Z	147	ALA
7	K	96	SER
7	K	248	ASP
7	K	628	PRO
7	K	641	GLU
7	K	687	TYR
7	K	720	VAL
7	K	761	ALA
8	L	36	PRO
6	M	127	LYS
6	M	135	SER
6	M	165	GLY
1	H	61	LYS
1	H	62	GLN

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Mol	Chain	Res	Type
1	H	168	ARG
1	H	176	ALA
1	H	183	GLY
1	H	218	PRO
1	H	251	ASN
1	H	323	ARG
1	H	340	PHE
1	H	349	SER
1	H	362	LYS
1	H	433	HIS
1	H	481	ARG
1	H	527	ASN
1	H	555	THR
1	H	585	CYS
1	H	686	ASN
1	H	731	GLY
1	H	755	LYS
3	I	216	ASP
3	I	779	GLY
3	I	871	ASN
4	J	140	GLY
4	J	156	ASN
4	J	250	ASP
4	J	259	SER
4	J	351	CYS
4	J	408	SER
4	J	454	ASN
4	J	708	ASN
4	J	763	PRO
5	N	46	HIS
5	N	138	SER
6	P	47	PRO
6	P	84	ASN
6	P	149	ARG
8	U	147	ALA
7	Q	96	SER
7	Q	248	ASP
7	Q	628	PRO
7	Q	641	GLU
7	Q	687	TYR
7	Q	720	VAL
7	Q	761	ALA

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Mol	Chain	Res	Type
8	S	36	PRO
6	T	127	LYS
6	T	135	SER
6	T	165	GLY
1	A	73	TYR
1	A	103	HIS
1	A	170	LYS
1	A	205	ASP
1	A	236	GLU
1	A	330	GLY
1	A	398	LYS
1	A	411	LYS
1	A	424	ASN
1	A	488	ILE
1	A	556	GLY
1	A	783	GLU
1	A	786	PRO
1	A	801	ILE
2	E	113	ASP
3	B	128	ASN
3	B	384	ASN
3	B	425	SER
3	B	447	ASP
3	B	481	CYS
3	B	504	VAL
3	B	752	TYR
3	B	768	LEU
3	B	780	ASP
3	B	827	SER
3	B	837	ILE
3	B	901	GLY
3	B	928	LYS
4	C	165	ARG
4	C	321	GLU
4	C	346	LYS
4	C	401	SER
4	C	409	ASN
4	C	431	GLU
4	C	662	VAL
4	C	821	ALA
6	F	153	TRP
7	G	23	GLU

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Mol	Chain	Res	Type
7	G	428	ASN
7	G	623	PHE
6	R	44	THR
6	R	129	ASP
6	R	158	THR
8	Z	34	THR
7	K	76	LEU
7	K	623	PHE
8	L	86	ASN
6	M	119	ALA
6	M	133	ALA
1	H	73	TYR
1	H	103	HIS
1	H	170	LYS
1	H	205	ASP
1	H	236	GLU
1	H	330	GLY
1	H	398	LYS
1	H	411	LYS
1	H	424	ASN
1	H	488	ILE
1	H	556	GLY
1	H	783	GLU
1	H	786	PRO
1	H	801	ILE
2	O	113	ASP
3	I	128	ASN
3	I	384	ASN
3	I	425	SER
3	I	447	ASP
3	I	481	CYS
3	I	504	VAL
3	I	752	TYR
3	I	768	LEU
3	I	780	ASP
3	I	827	SER
3	I	837	ILE
3	I	901	GLY
3	I	928	LYS
4	J	165	ARG
4	J	321	GLU
4	J	346	LYS

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Mol	Chain	Res	Type
4	J	401	SER
4	J	409	ASN
4	J	431	GLU
4	J	662	VAL
4	J	821	ALA
6	P	153	TRP
8	U	34	THR
7	Q	76	LEU
7	Q	623	PHE
8	S	86	ASN
6	T	119	ALA
6	T	133	ALA
1	A	182	ARG
1	A	195	ALA
1	A	364	PRO
1	A	452	ASN
1	A	517	LYS
1	A	531	LYS
1	A	621	VAL
1	A	644	ASP
1	A	810	LEU
3	B	270	SER
3	B	347	PRO
3	B	825	ALA
4	C	242	PRO
4	C	284	ASN
4	C	473	SER
4	C	737	LYS
5	D	40	MET
5	D	43	GLY
6	F	78	TRP
7	G	99	ALA
7	G	226	PRO
7	G	248	ASP
7	K	40	ASN
7	K	81	ASP
8	L	63	GLU
6	M	151	ARG
1	H	182	ARG
1	H	195	ALA
1	H	364	PRO
1	H	452	ASN

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Mol	Chain	Res	Type
1	H	517	LYS
1	H	531	LYS
1	H	621	VAL
1	H	644	ASP
1	H	810	LEU
3	I	270	SER
3	I	347	PRO
3	I	825	ALA
4	J	242	PRO
4	J	284	ASN
4	J	473	SER
4	J	737	LYS
5	N	40	MET
5	N	43	GLY
6	P	78	TRP
7	Q	40	ASN
7	Q	81	ASP
8	S	63	GLU
6	T	151	ARG
1	A	643	LYS
1	A	802	MET
3	B	86	ASP
3	B	104	THR
4	C	25	PRO
7	G	152	VAL
6	R	49	ILE
8	Z	54	ARG
7	K	37	THR
7	K	694	PRO
1	H	643	LYS
1	H	802	MET
3	I	86	ASP
3	I	104	THR
4	J	25	PRO
8	U	54	ARG
7	Q	37	THR
7	Q	694	PRO
4	C	312	GLY
7	K	274	ILE
4	J	312	GLY
7	Q	274	ILE
1	A	22	PRO

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Mol	Chain	Res	Type
1	A	503	VAL
1	A	615	VAL
2	E	213	SER
4	C	112	PRO
6	R	163	GLY
6	M	148	ILE
1	H	22	PRO
1	H	503	VAL
1	H	615	VAL
2	O	213	SER
4	J	112	PRO
6	T	148	ILE
1	A	133	GLY
1	A	259	PRO
6	F	43	ILE
7	G	820	PRO
7	K	820	PRO
1	H	133	GLY
1	H	259	PRO
6	P	43	ILE
7	Q	820	PRO
7	G	694	PRO
2	E	45	SER
3	B	516	LYS
1	H	575	GLY
2	O	45	SER
3	I	516	LYS

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-3724. These allow visual inspection of the internal detail of the map and identification of artifacts.

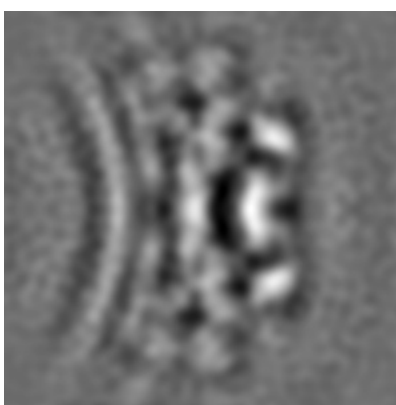
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

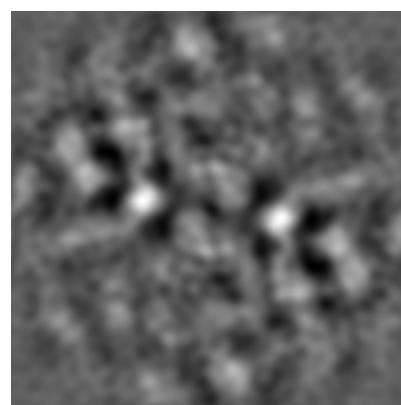
6.1.1 Primary map



X



Y



Z

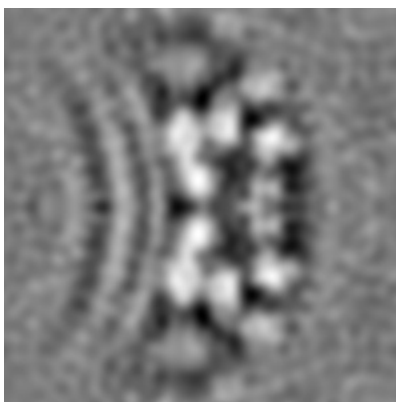
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

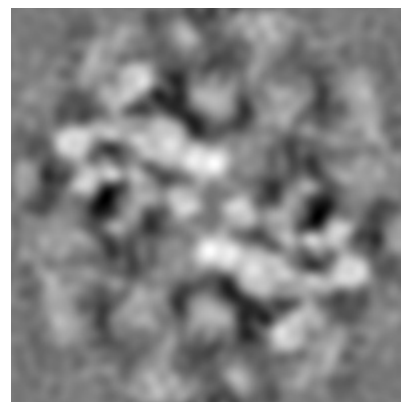
6.2.1 Primary map



X Index: 106



Y Index: 106



Z Index: 106

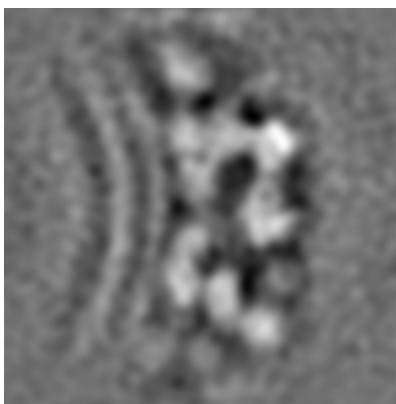
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

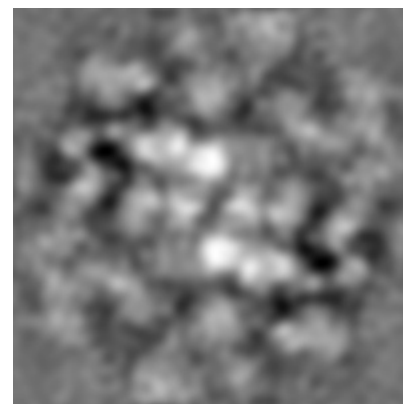
6.3.1 Primary map



X Index: 106



Y Index: 100

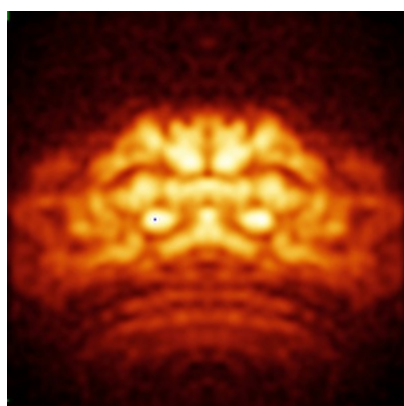


Z Index: 101

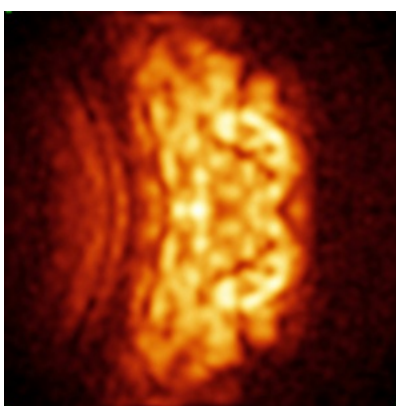
The images above show the largest variance slices of the map in three orthogonal directions.

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

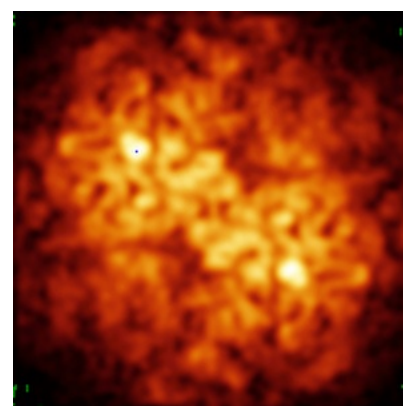
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.035. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

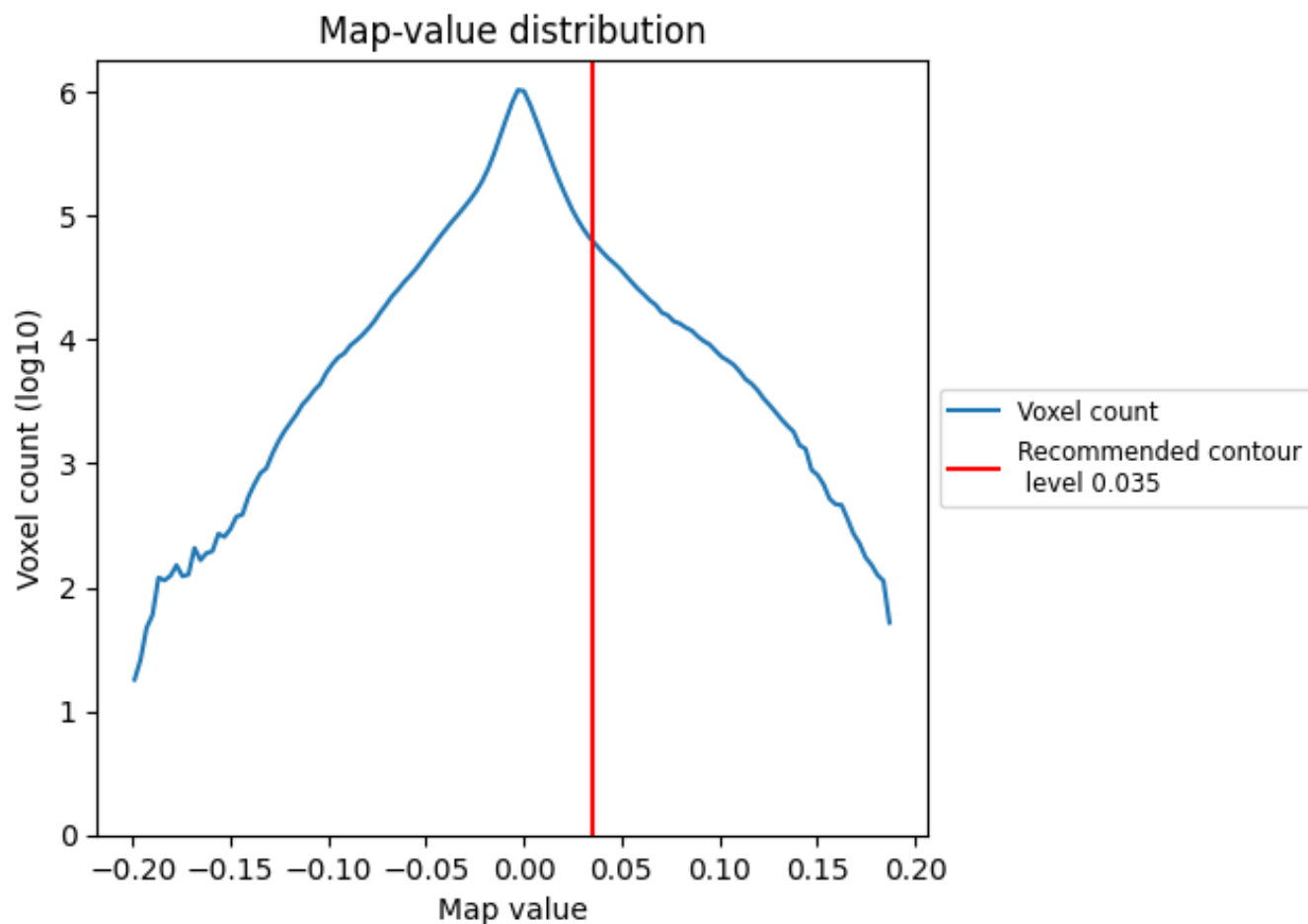
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

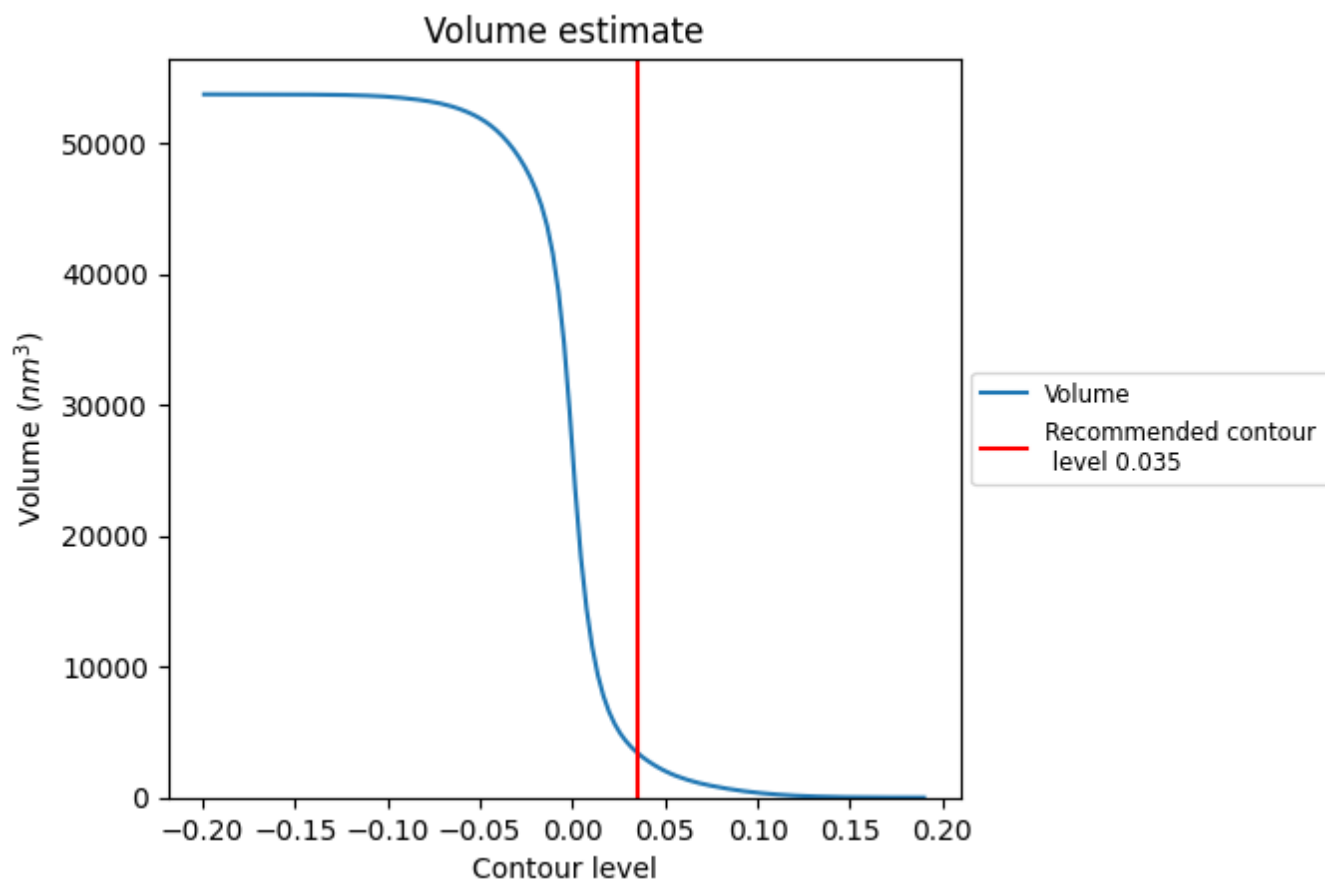
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

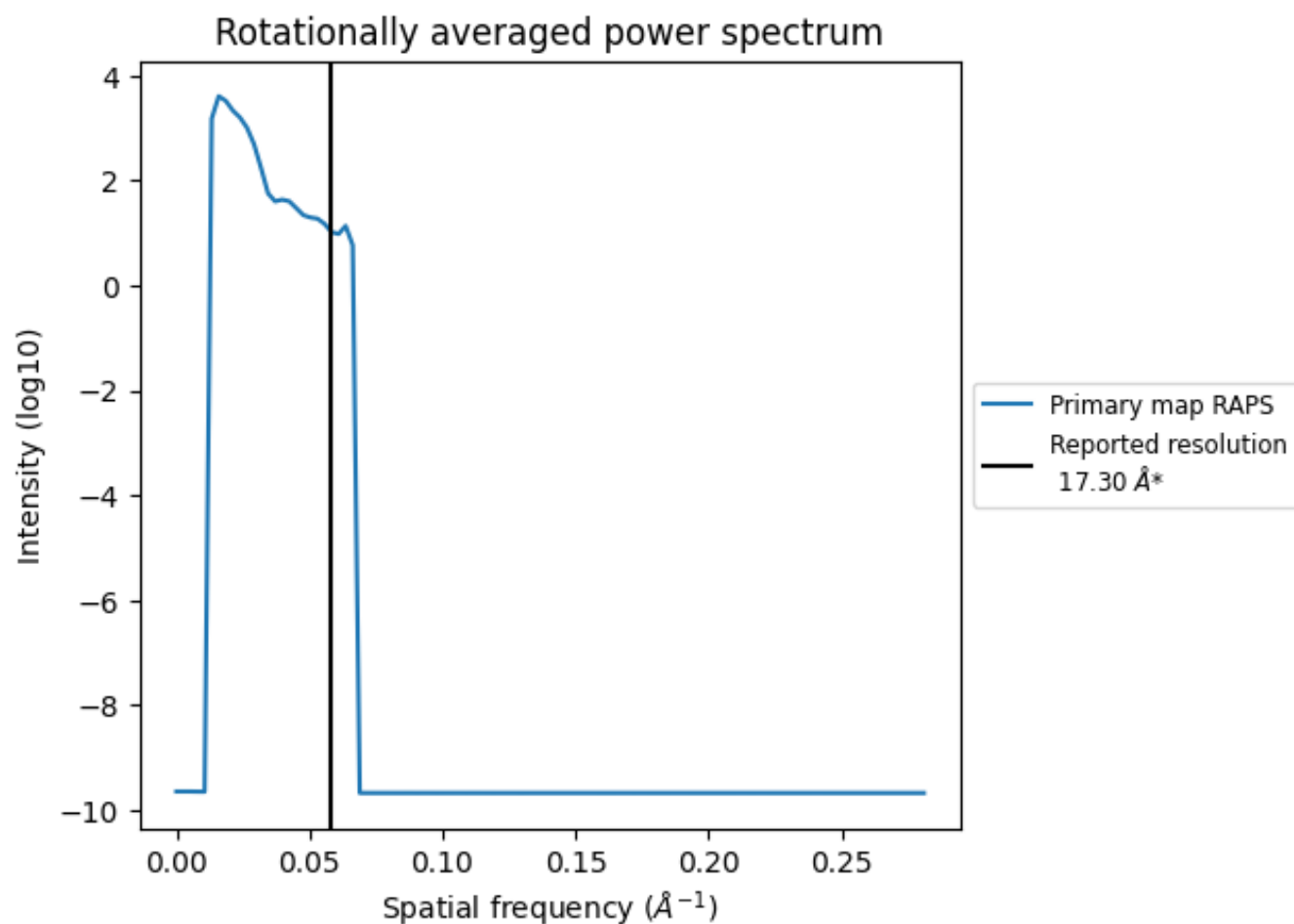
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3439 nm³; this corresponds to an approximate mass of 3106 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

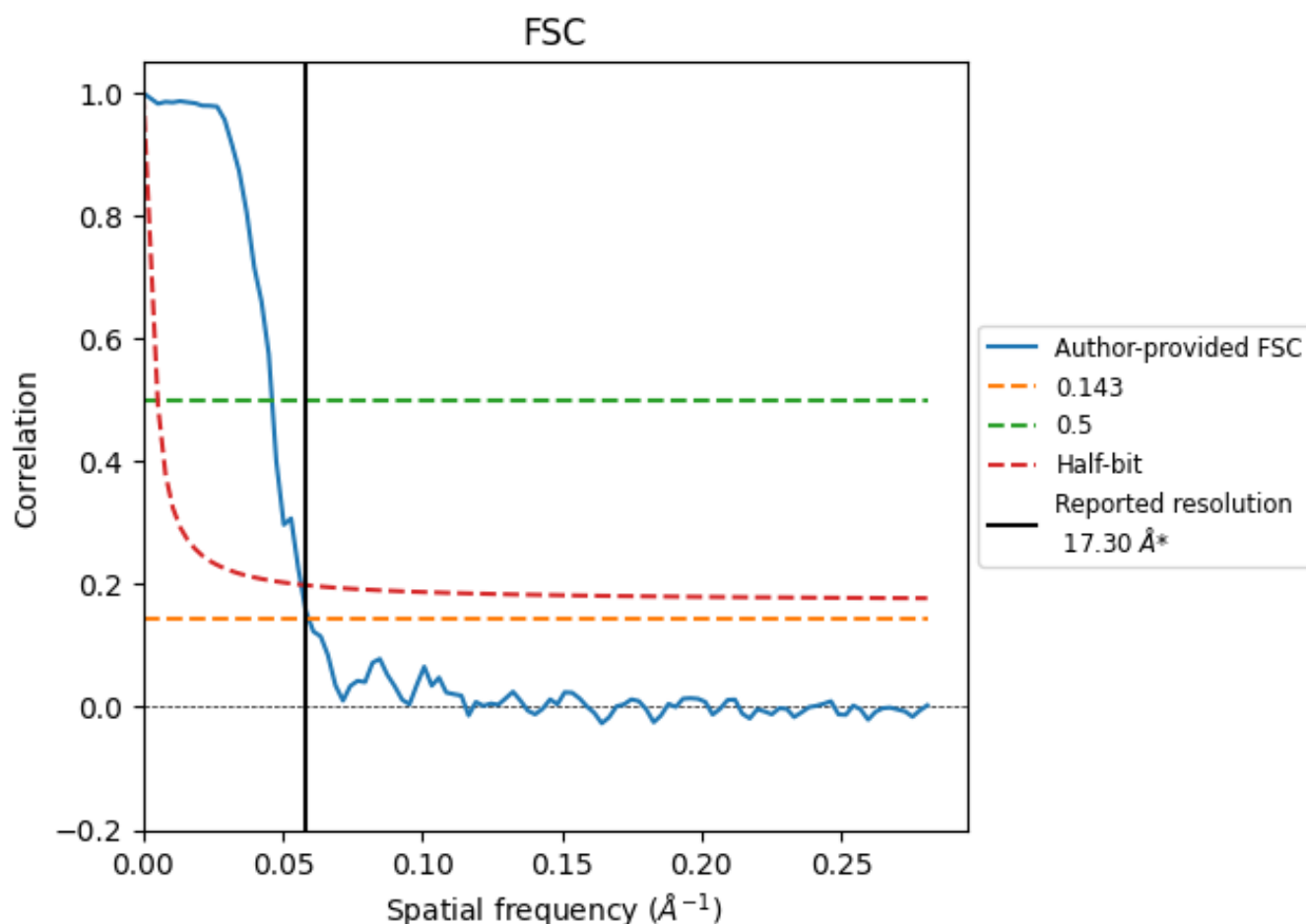


*Reported resolution corresponds to spatial frequency of 0.058 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.058 Å⁻¹

8.2 Resolution estimates [i](#)

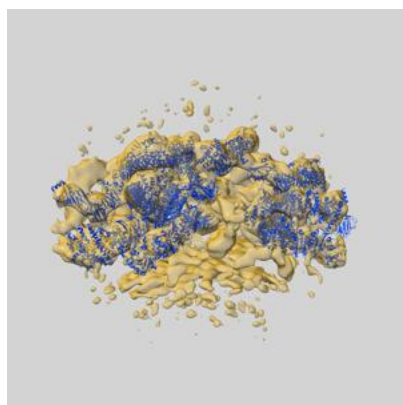
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	17.30	-	-
Author-provided FSC curve	16.86	21.65	17.67
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

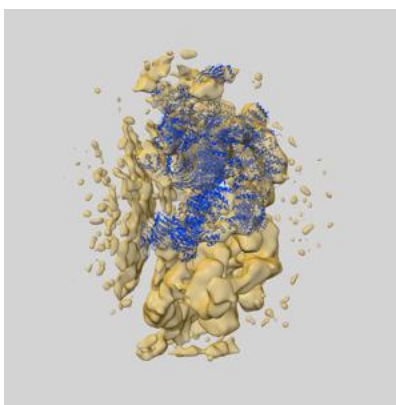
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-3724 and PDB model 5NZV. Per-residue inclusion information can be found in section 3 on page 9.

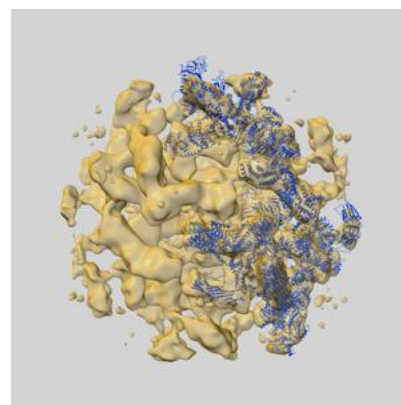
9.1 Map-model overlay [i](#)



X



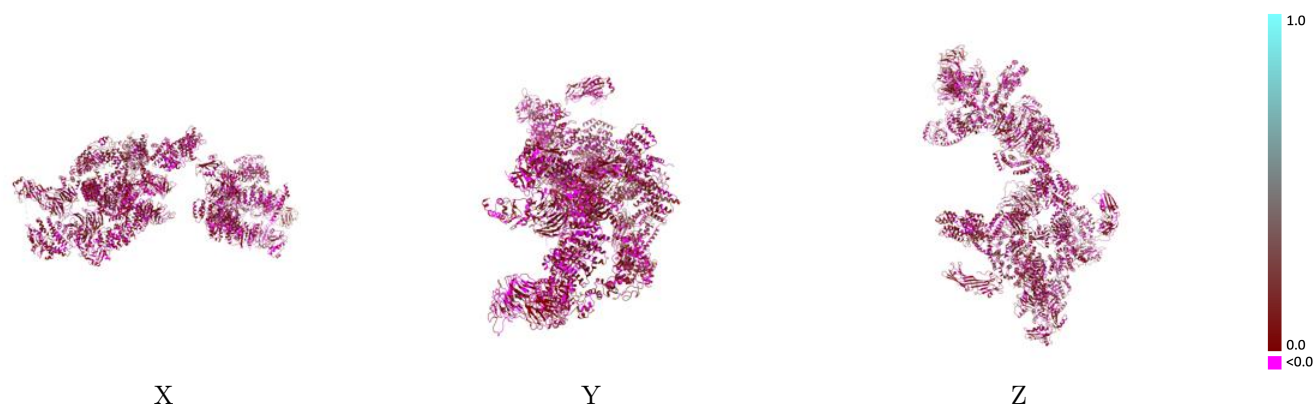
Y



Z

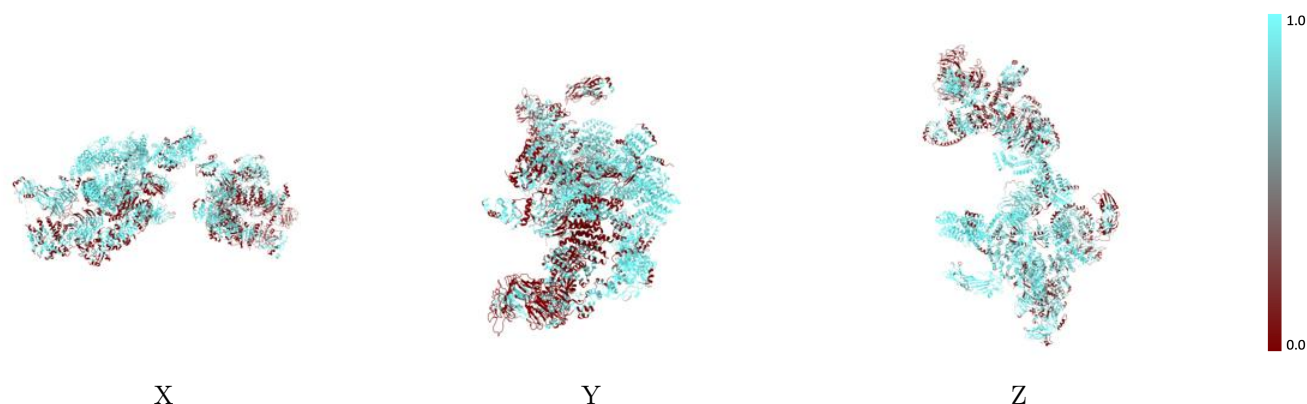
The images above show the 3D surface view of the map at the recommended contour level 0.035 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



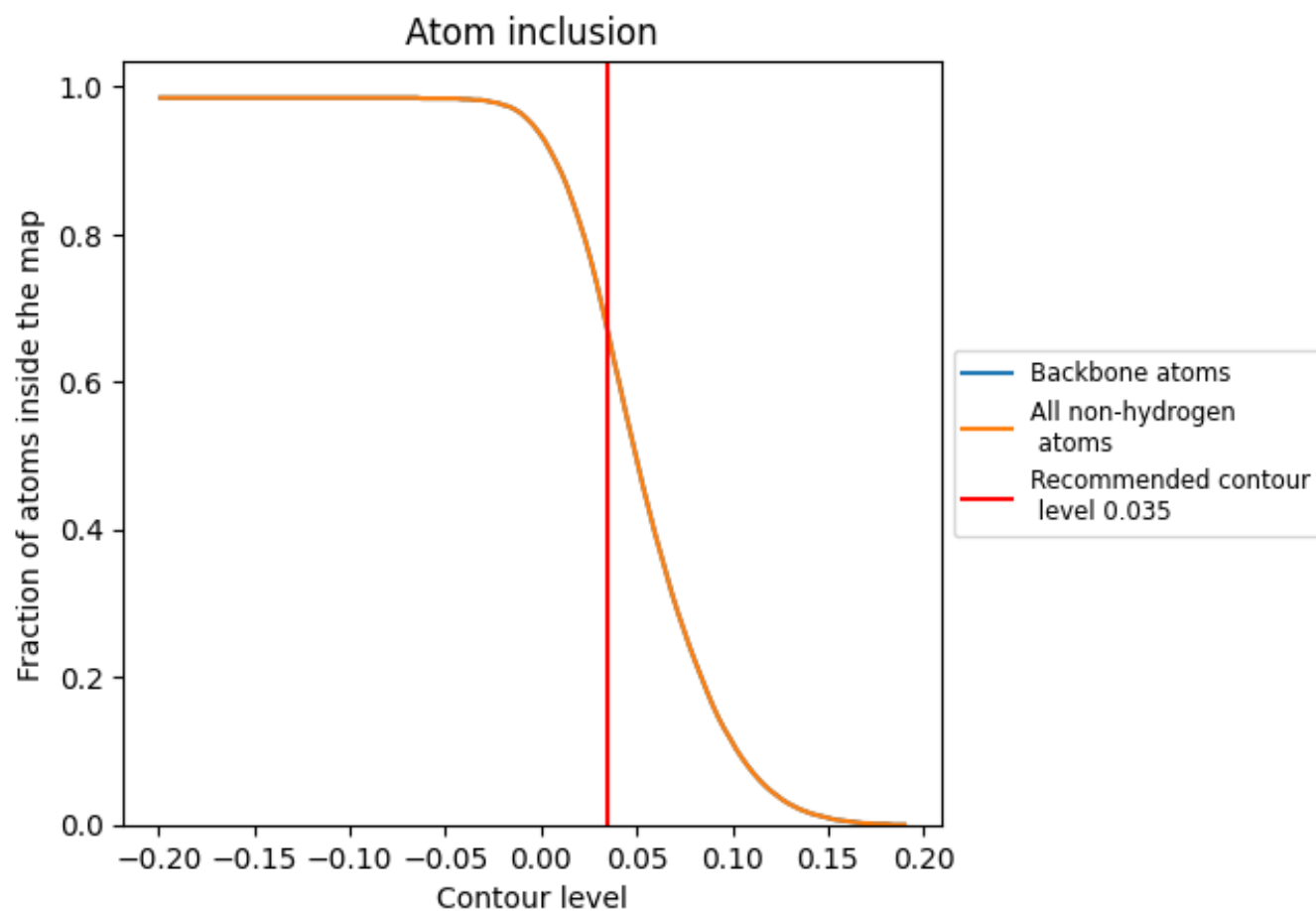
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.035).

9.4 Atom inclusion [i](#)



At the recommended contour level, 67% of all backbone atoms, 67% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.035) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6680	 0.0620
A	 0.9060	 0.0780
B	 0.8000	 0.0730
C	 0.7840	 0.0790
D	 0.8280	 0.0730
E	 0.9160	 0.0920
F	 0.9310	 0.0660
G	 0.5780	 0.0480
H	 0.5560	 0.0460
I	 0.3850	 0.0440
J	 0.6170	 0.0610
K	 0.5590	 0.0640
L	 0.5930	 0.0520
M	 0.6770	 0.0670
N	 0.5980	 0.0550
O	 0.7850	 0.0570
P	 0.6210	 0.0640
Q	 0.5760	 0.0600
R	 0.4270	 0.0720
S	 0.5980	 0.0460
T	 0.5020	 0.0490
U	 0.5960	 0.0740
Z	 0.6760	 0.0480

