



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 07:52 AM UTC

PDB ID : 5A1X / pdb_00005a1x
EMDB ID : EMD-2988
Title : The structure of the COPI coat linkage III
Authors : Dodonova, S.O.; Diestelkoetter-Bachert, P.; von Appen, A.; Hagen, W.J.H.; Beck, R.; Beck, M.; Wieland, F.; Briggs, J.A.G.
Deposited on : 2015-05-06
Resolution : 23.00 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:

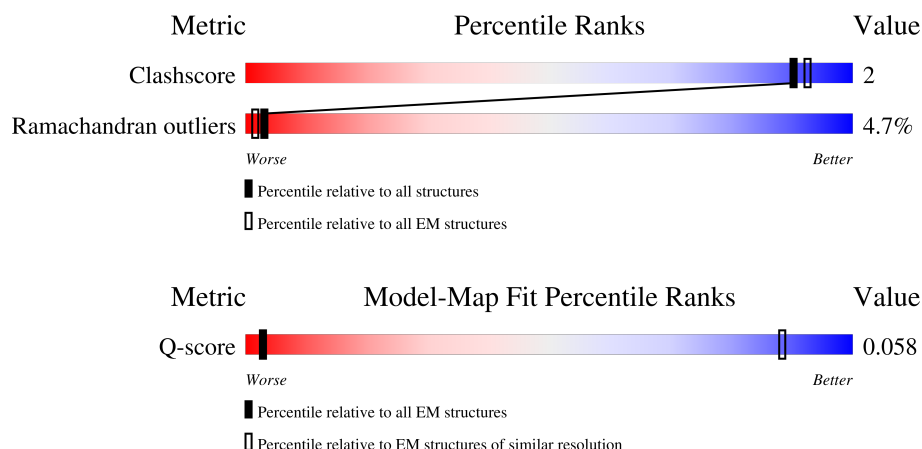
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 23.00 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	17 (22.90 - 23.50)

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	181	34% 86% 12%
1	B	181	18% 86% 12%
1	I	181	22% 86% 12%
1	J	181	12% 86% 12%
2	C	1262	32% 33% 31% 36%

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Mol	Chain	Length	Quality of chain
2	K	1262	
3	D	905	
3	L	905	
4	E	874	
4	M	874	
5	F	177	
5	N	177	
6	G	968	
6	O	968	
7	H	511	
7	P	511	
7	Q	511	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 32592 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 ADP-RIBOSYLATION FACTOR 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	A	159	Total	C	N	O	0	0
			636	318	159	159		
1	B	159	Total	C	N	O	0	0
			636	318	159	159		
1	I	159	Total	C	N	O	0	0
			636	318	159	159		
1	J	159	Total	C	N	O	0	0
			636	318	159	159		

- Molecule 2 is a protein called COATOMER SUBUNIT ALPHA.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	C	813	Total	C	N	O	0	0
			3251	1626	813	812		
2	K	813	Total	C	N	O	0	0
			3251	1626	813	812		

There are 76 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1225	LEU	-	expression tag	UNP Q8CIE6
C	1226	GLU	-	expression tag	UNP Q8CIE6
C	1227	VAL	-	expression tag	UNP Q8CIE6
C	1228	LEU	-	expression tag	UNP Q8CIE6
C	1229	PHE	-	expression tag	UNP Q8CIE6
C	1230	GLN	-	expression tag	UNP Q8CIE6
C	1231	GLY	-	expression tag	UNP Q8CIE6
C	1232	PRO	-	expression tag	UNP Q8CIE6
C	1233	SER	-	expression tag	UNP Q8CIE6
C	1234	ALA	-	expression tag	UNP Q8CIE6
C	1235	TRP	-	expression tag	UNP Q8CIE6
C	1236	SER	-	expression tag	UNP Q8CIE6
C	1237	HIS	-	expression tag	UNP Q8CIE6

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

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Chain	Residue	Modelled	Actual	Comment	Reference
K	1242	LYS	-	expression tag	UNP Q8CIE6
K	1243	GLY	-	expression tag	UNP Q8CIE6
K	1244	GLY	-	expression tag	UNP Q8CIE6
K	1245	GLY	-	expression tag	UNP Q8CIE6
K	1246	SER	-	expression tag	UNP Q8CIE6
K	1247	GLY	-	expression tag	UNP Q8CIE6
K	1248	GLY	-	expression tag	UNP Q8CIE6
K	1249	GLY	-	expression tag	UNP Q8CIE6
K	1250	SER	-	expression tag	UNP Q8CIE6
K	1251	GLY	-	expression tag	UNP Q8CIE6
K	1252	GLY	-	expression tag	UNP Q8CIE6
K	1253	SER	-	expression tag	UNP Q8CIE6
K	1254	ALA	-	expression tag	UNP Q8CIE6
K	1255	TRP	-	expression tag	UNP Q8CIE6
K	1256	SER	-	expression tag	UNP Q8CIE6
K	1257	HIS	-	expression tag	UNP Q8CIE6
K	1258	PRO	-	expression tag	UNP Q8CIE6
K	1259	GLN	-	expression tag	UNP Q8CIE6
K	1260	PHE	-	expression tag	UNP Q8CIE6
K	1261	GLU	-	expression tag	UNP Q8CIE6
K	1262	LYS	-	expression tag	UNP Q8CIE6

- Molecule 3 is a protein called COATOMER SUBUNIT BETA'.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	D	803	Total	C	N	O	0	0
			3211	1606	803	802		
3	L	803	Total	C	N	O	0	0
			3211	1606	803	802		

- Molecule 4 is a protein called COATOMER SUBUNIT GAMMA-1.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	E	550	Total	C	N	O	0	0
			2199	1100	550	549		
4	M	824	Total	C	N	O	0	0
			3294	1648	824	822		

- Molecule 5 is a protein called COATOMER SUBUNIT ZETA-1.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	F	139	Total	C	N	O	0	0
			555	278	139	138		
5	N	139	Total	C	N	O	0	0
			555	278	139	138		

- Molecule 6 is a protein called COATOMER SUBUNIT BETA.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	G	813	Total	C	N	O	0	0
			3250	1626	813	811		
6	O	813	Total	C	N	O	0	0
			3250	1626	813	811		

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	-14	MET	-	expression tag	UNP Q9JIF7
G	-13	HIS	-	expression tag	UNP Q9JIF7
G	-12	HIS	-	expression tag	UNP Q9JIF7
G	-11	HIS	-	expression tag	UNP Q9JIF7
G	-10	HIS	-	expression tag	UNP Q9JIF7
G	-9	HIS	-	expression tag	UNP Q9JIF7
G	-8	HIS	-	expression tag	UNP Q9JIF7
G	-7	GLU	-	expression tag	UNP Q9JIF7
G	-6	ASN	-	expression tag	UNP Q9JIF7
G	-5	LEU	-	expression tag	UNP Q9JIF7
G	-4	TYR	-	expression tag	UNP Q9JIF7
G	-3	PHE	-	expression tag	UNP Q9JIF7
G	-2	GLN	-	expression tag	UNP Q9JIF7
G	-1	GLY	-	expression tag	UNP Q9JIF7
G	0	HIS	-	expression tag	UNP Q9JIF7
O	-14	MET	-	expression tag	UNP Q9JIF7
O	-13	HIS	-	expression tag	UNP Q9JIF7
O	-12	HIS	-	expression tag	UNP Q9JIF7
O	-11	HIS	-	expression tag	UNP Q9JIF7
O	-10	HIS	-	expression tag	UNP Q9JIF7
O	-9	HIS	-	expression tag	UNP Q9JIF7
O	-8	HIS	-	expression tag	UNP Q9JIF7
O	-7	GLU	-	expression tag	UNP Q9JIF7
O	-6	ASN	-	expression tag	UNP Q9JIF7
O	-5	LEU	-	expression tag	UNP Q9JIF7
O	-4	TYR	-	expression tag	UNP Q9JIF7
O	-3	PHE	-	expression tag	UNP Q9JIF7

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Chain	Residue	Modelled	Actual	Comment	Reference
O	-2	GLN	-	expression tag	UNP Q9JIF7
O	-1	GLY	-	expression tag	UNP Q9JIF7
O	0	HIS	-	expression tag	UNP Q9JIF7

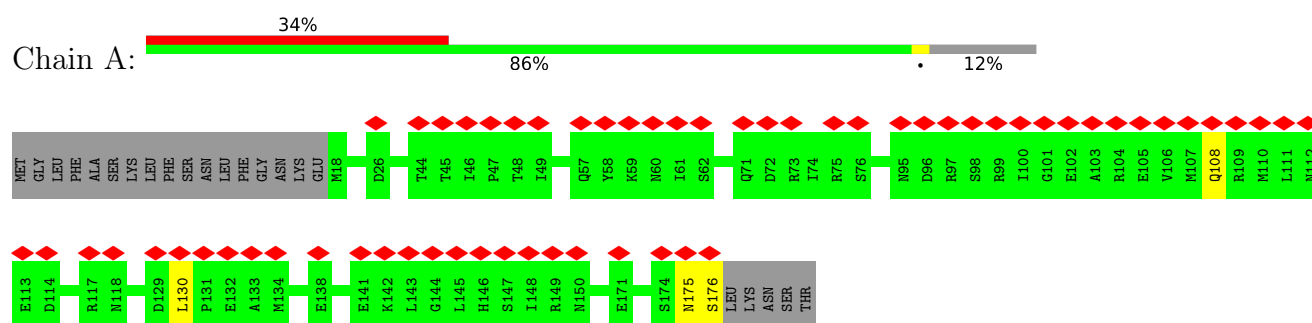
- Molecule 7 is a protein called COATOMER SUBUNIT DELTA.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	H	380	Total	C	N	O	0	0
			1520	760	380	380		
7	P	380	Total	C	N	O	0	0
			1520	760	380	380		
7	Q	245	Total	C	N	O	0	0
			981	490	245	246		

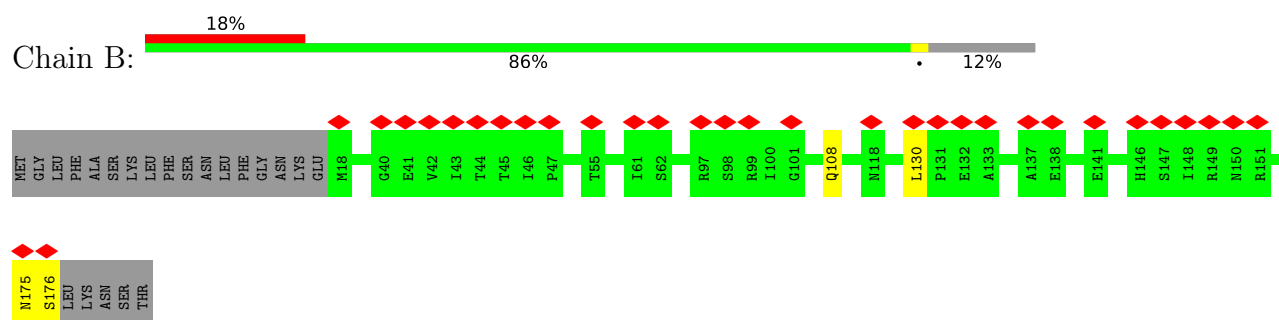
3 Residue-property plots [i](#)

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.

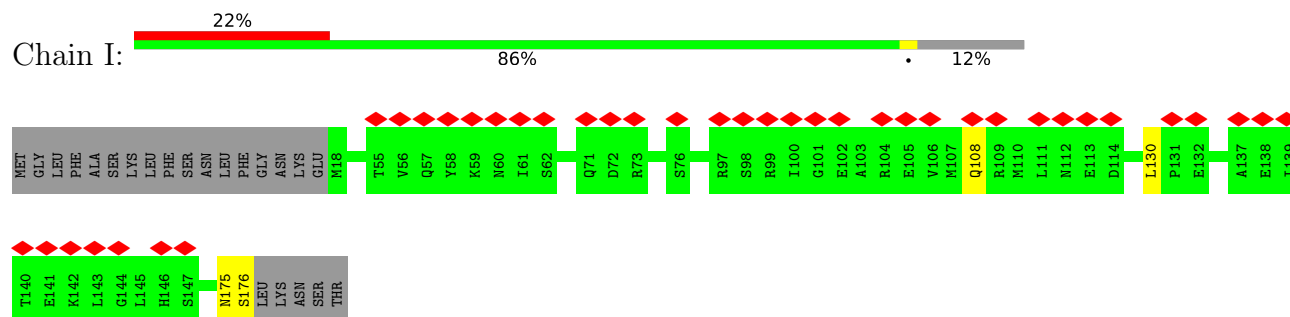
• Molecule 1: ADP-RIBOSYLATION FACTOR 1



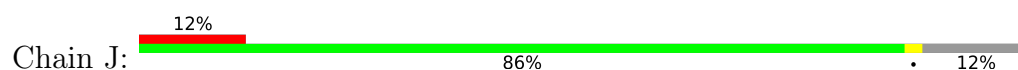
• Molecule 1: ADP-RIBOSYLATION FACTOR 1

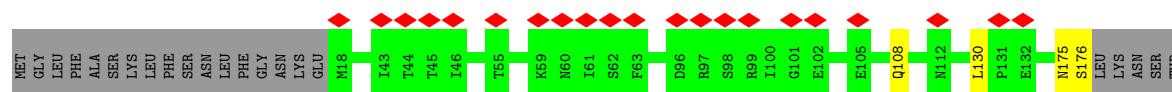


• Molecule 1: ADP-RIBOSYLATION FACTOR 1

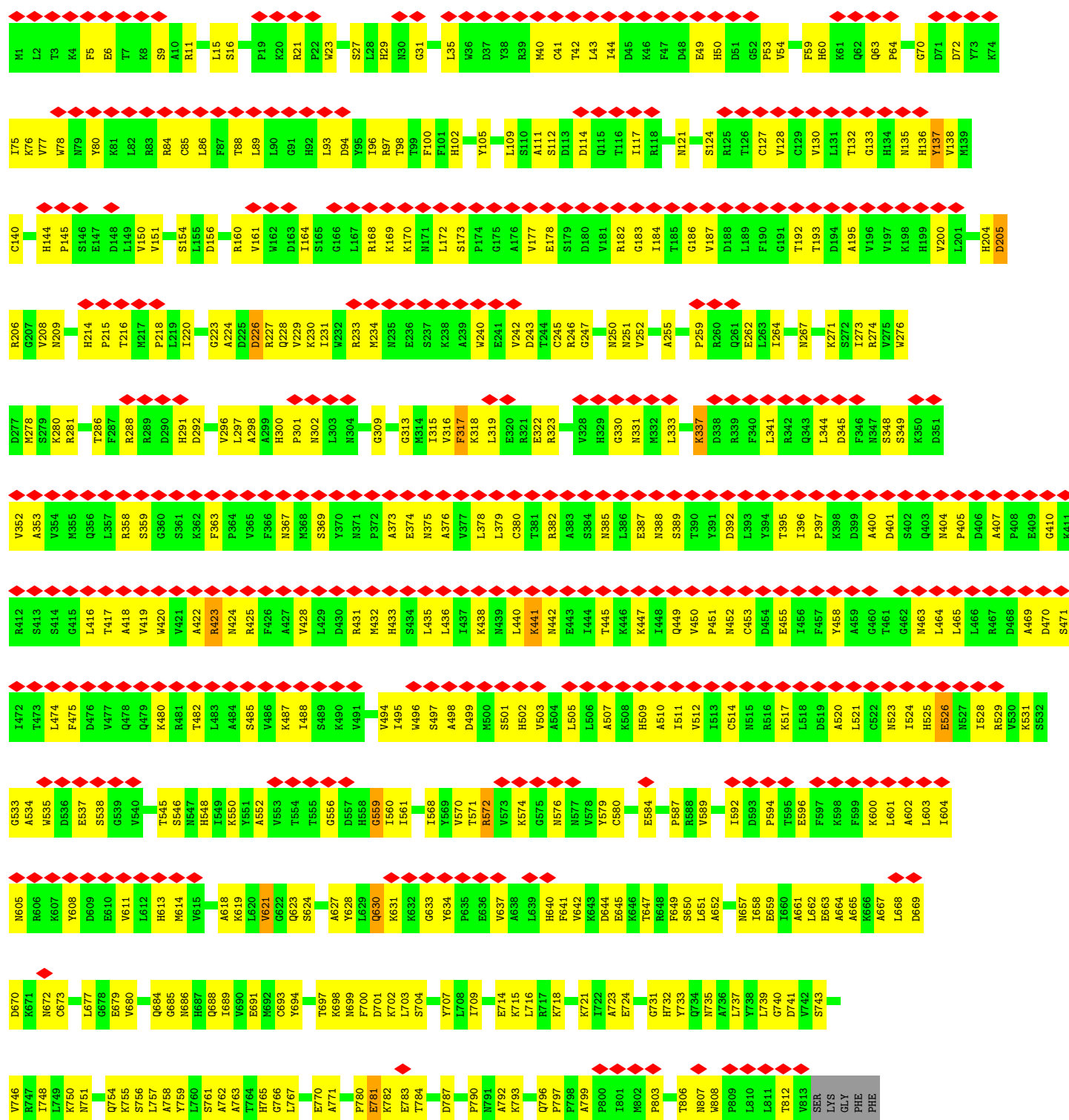


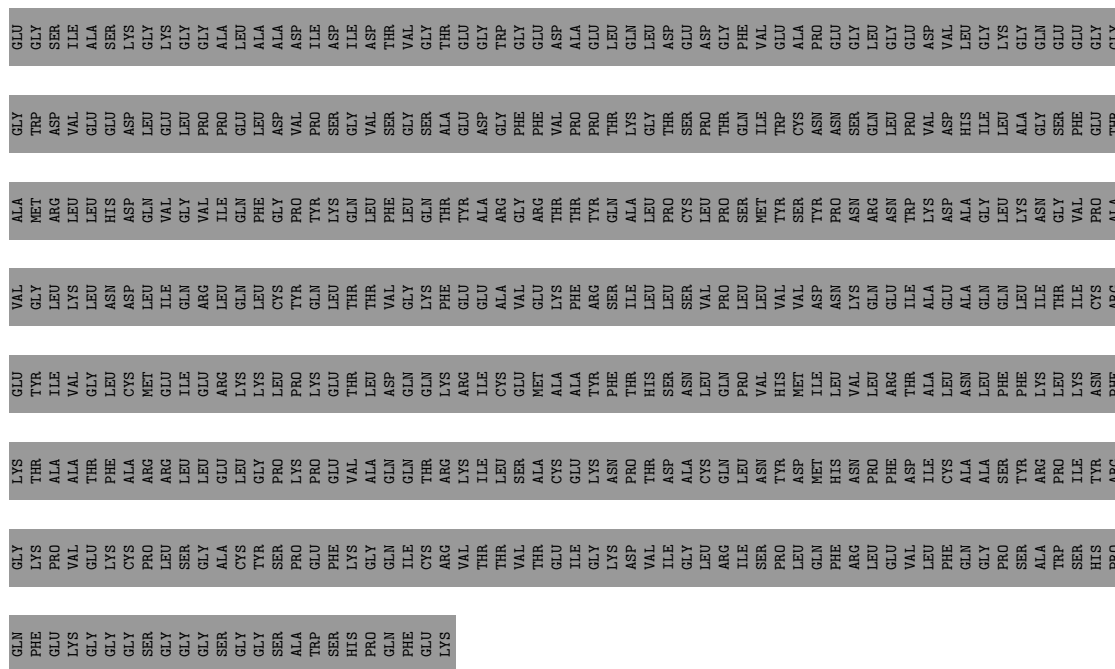
• Molecule 1: ADP-RIBOSYLATION FACTOR 1



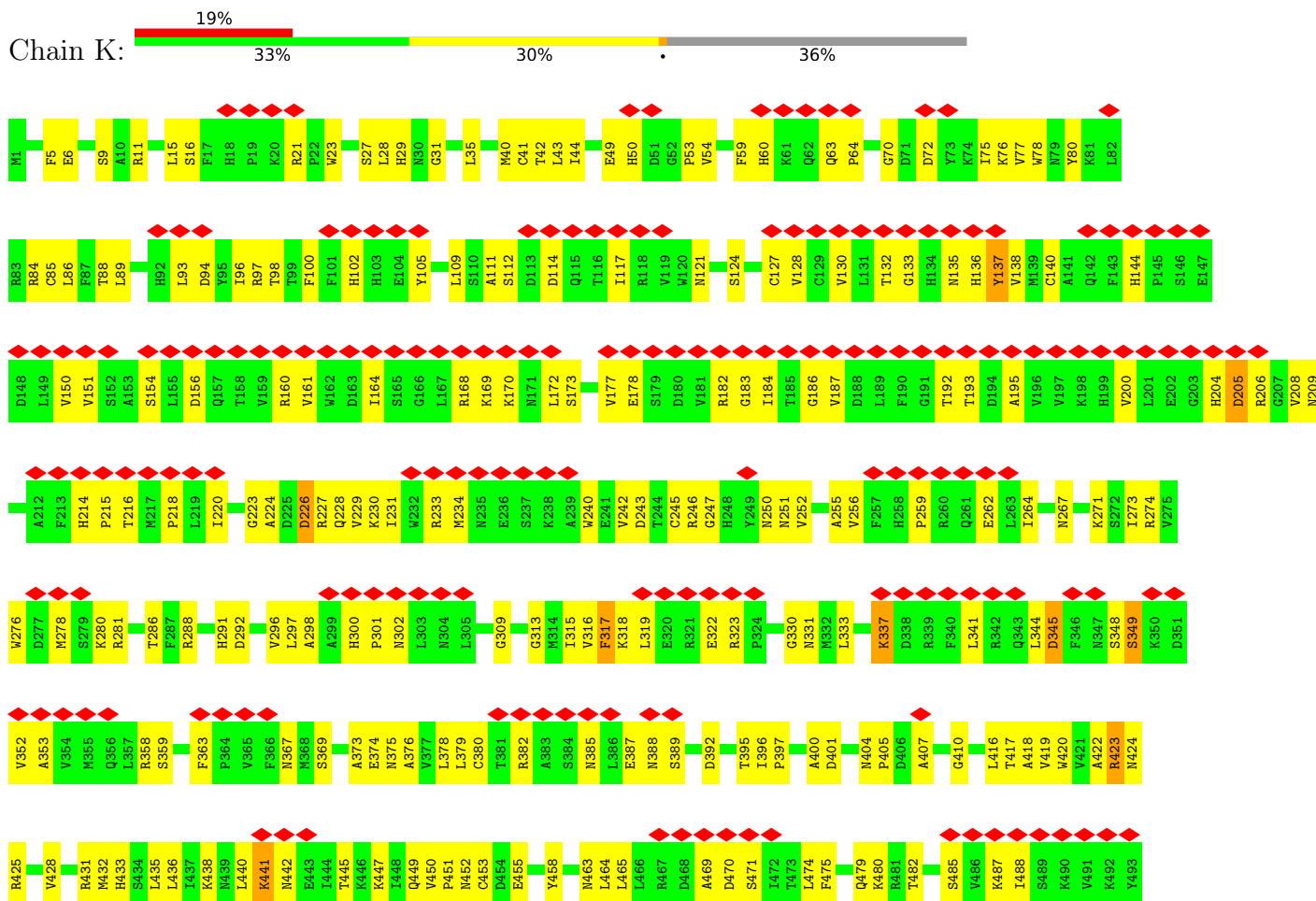


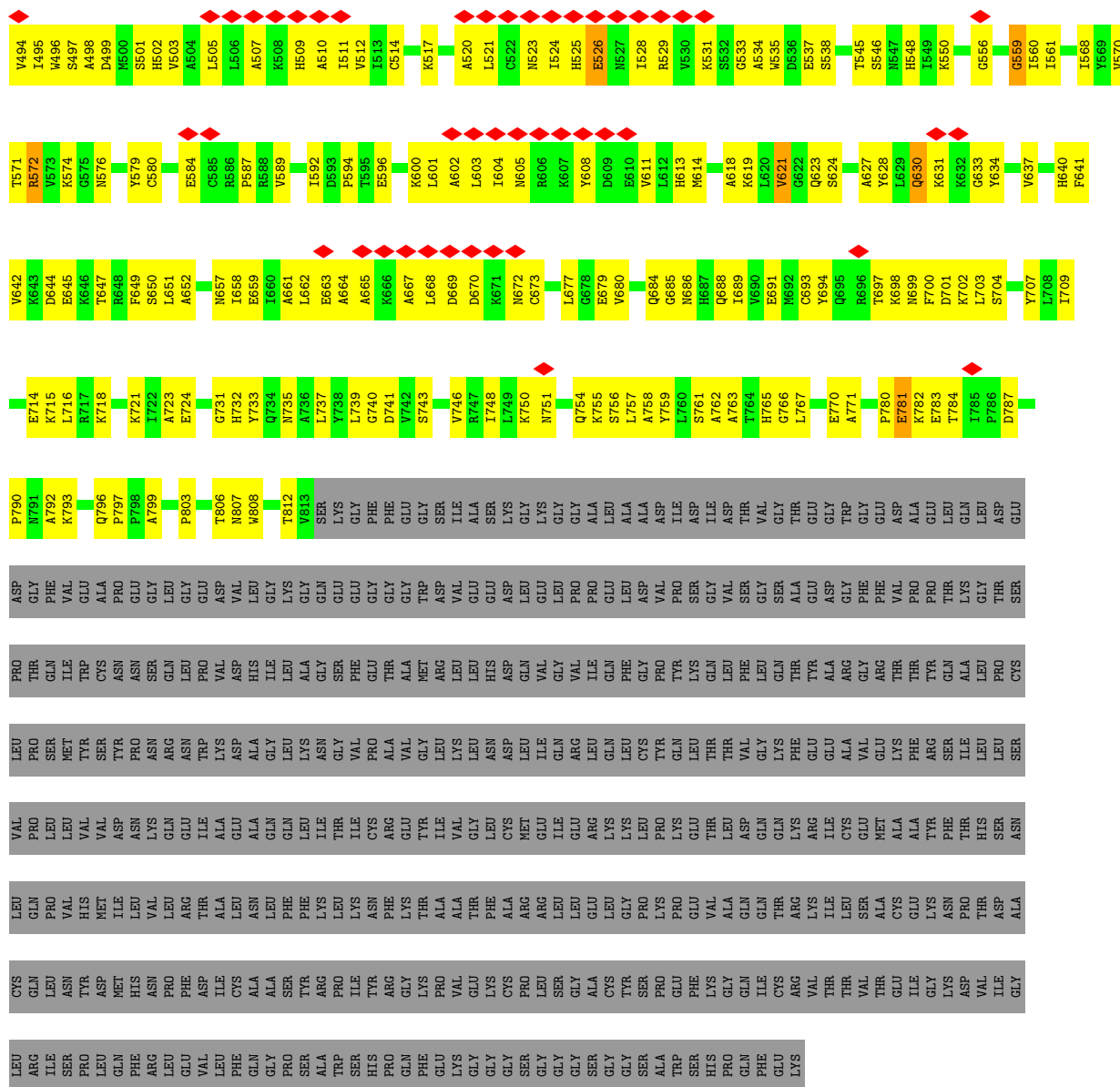
• Molecule 2: COATOMER SUBUNIT ALPHA



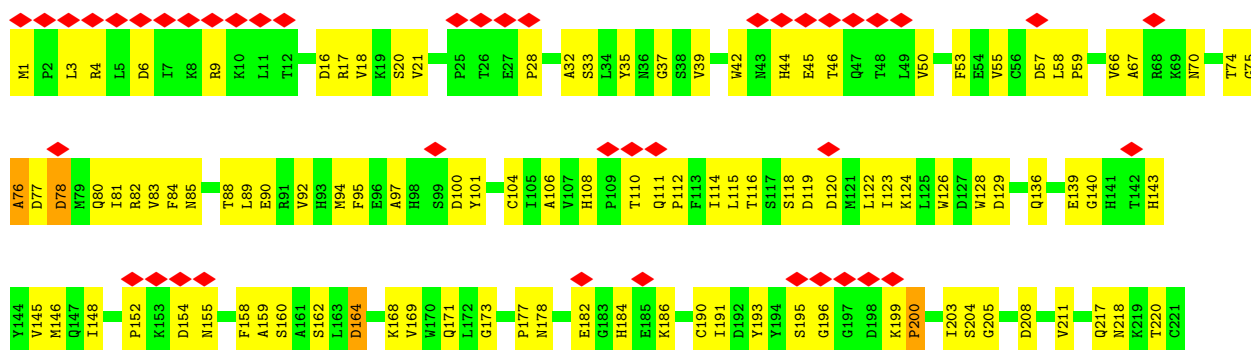
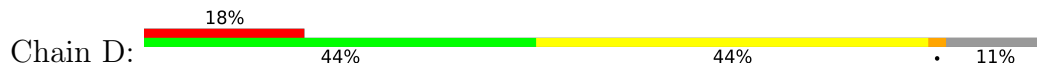


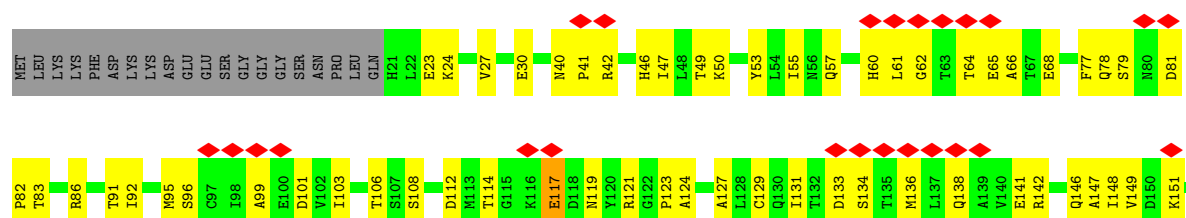
• Molecule 2: COATOMER SUBUNIT ALPHA

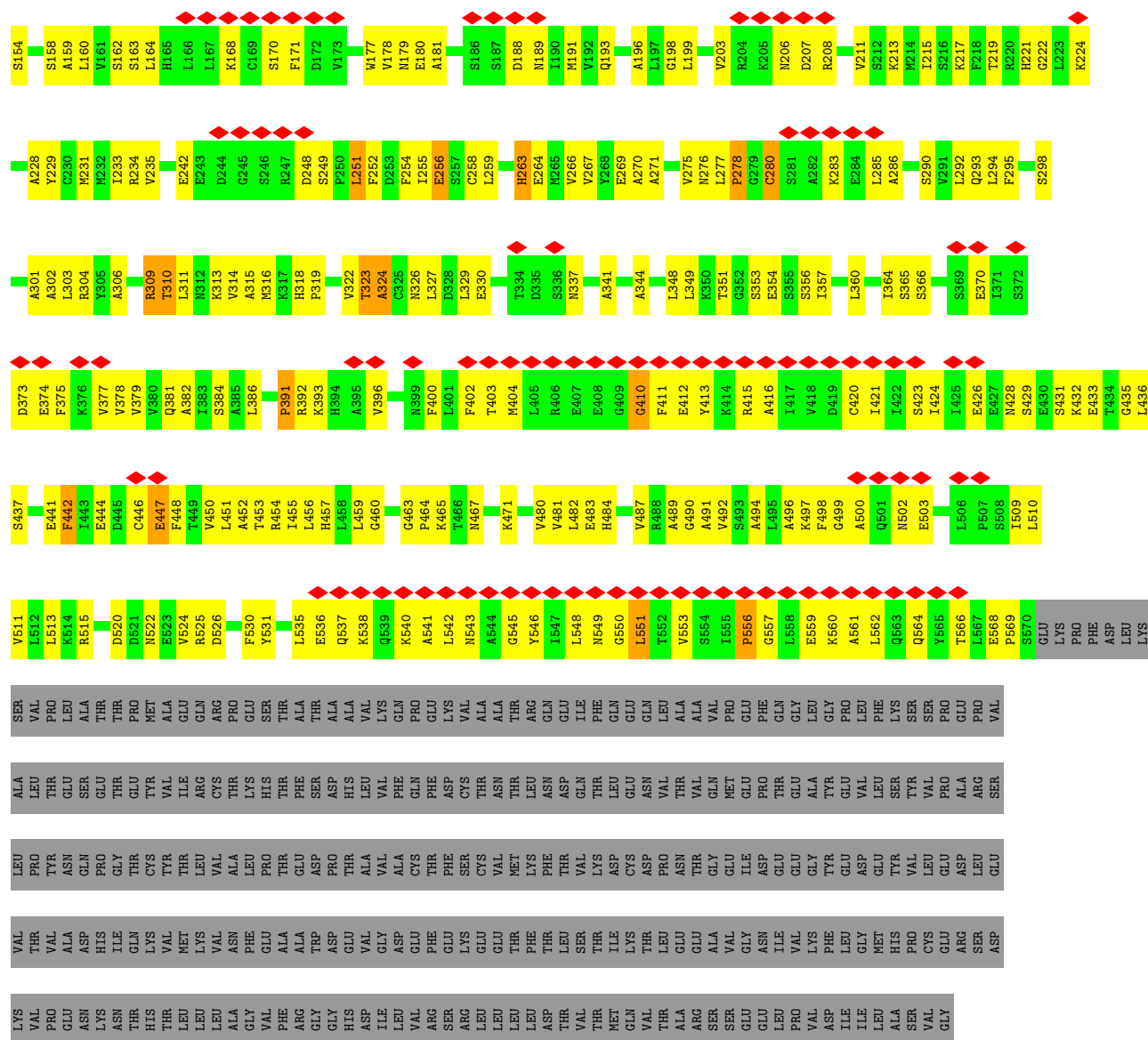




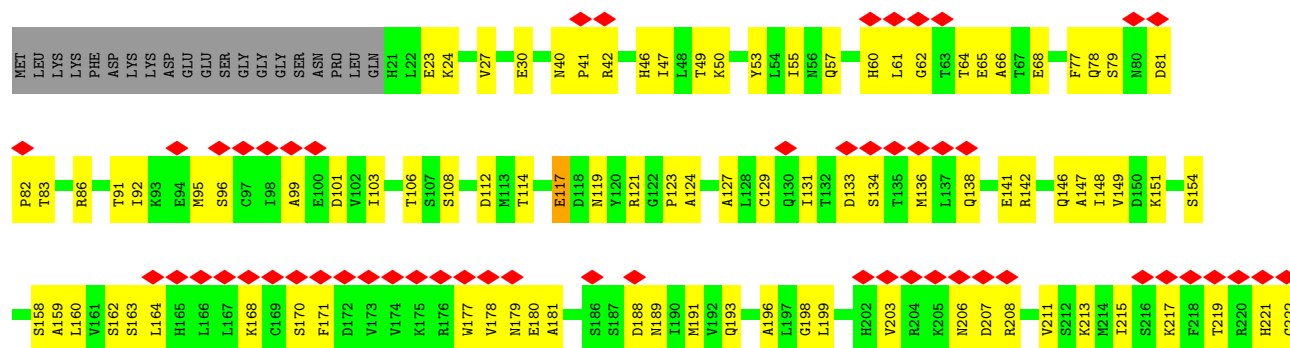
• Molecule 3: COATOMER SUBUNIT BETA'

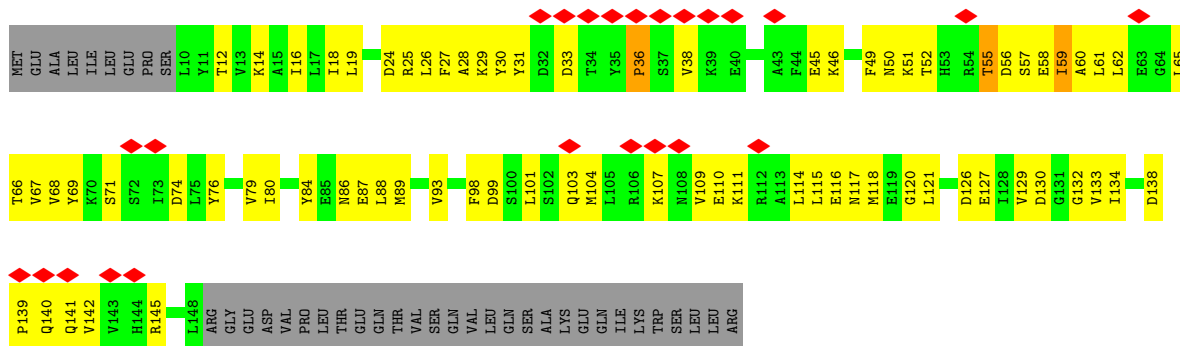




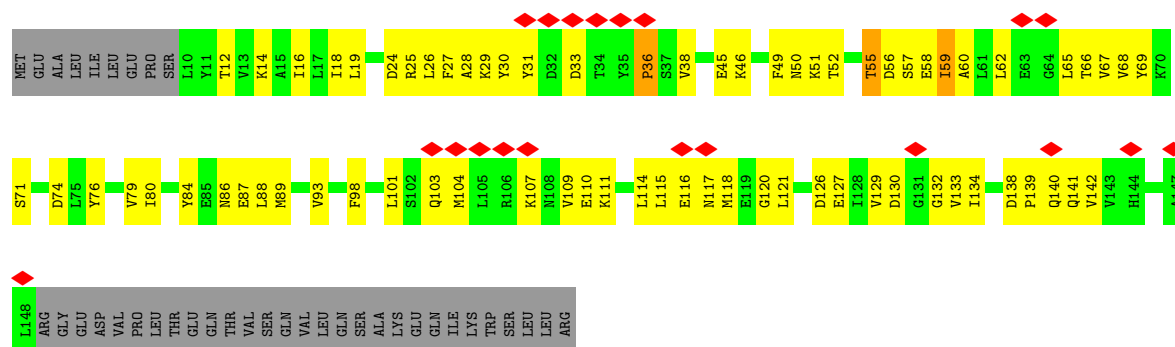


• Molecule 4: COATOMER SUBUNIT GAMMA-1

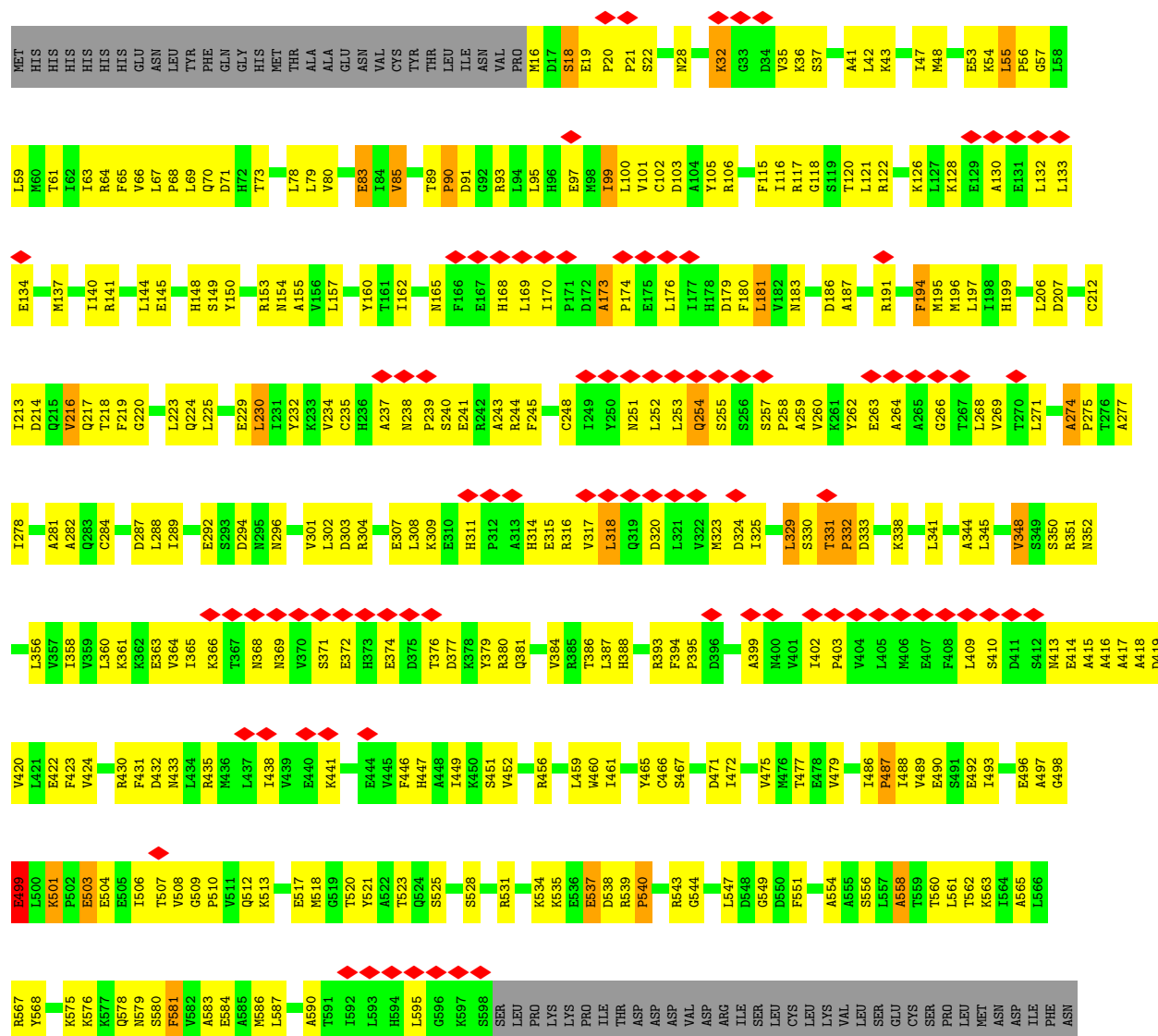


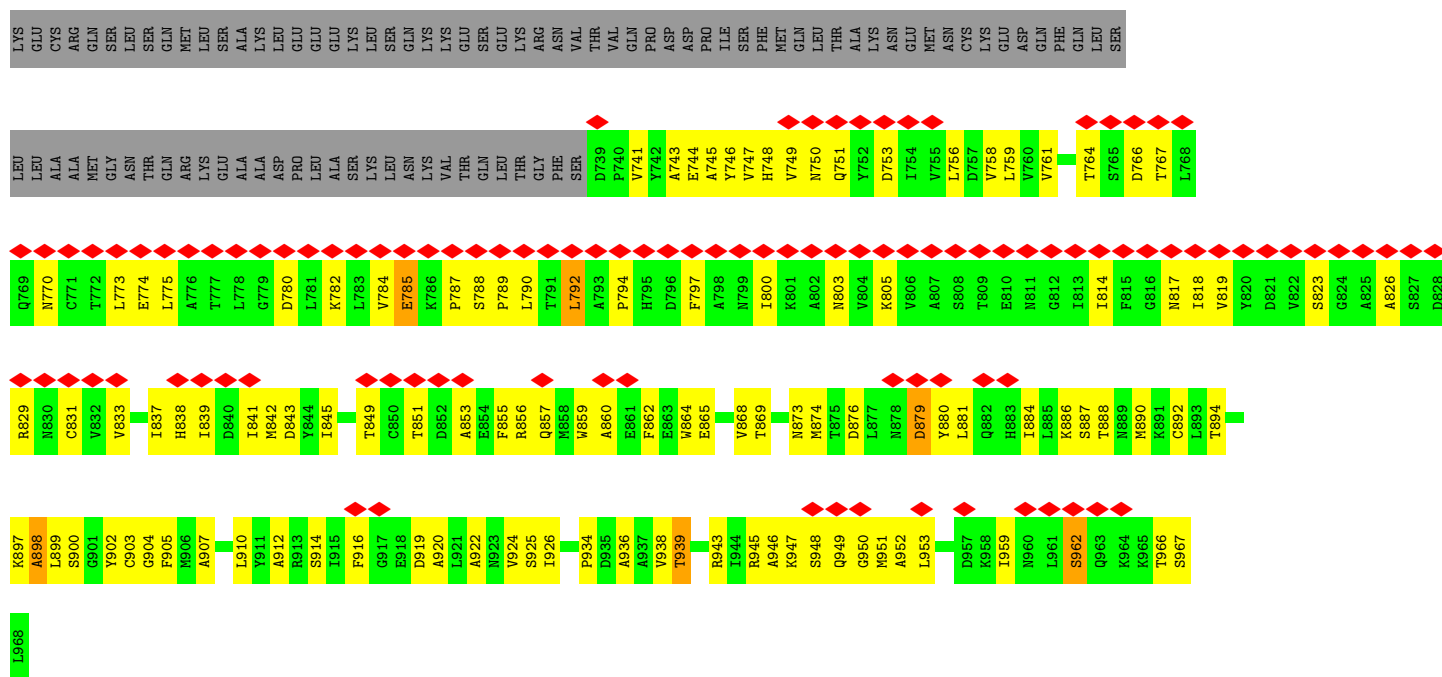


Chain N:

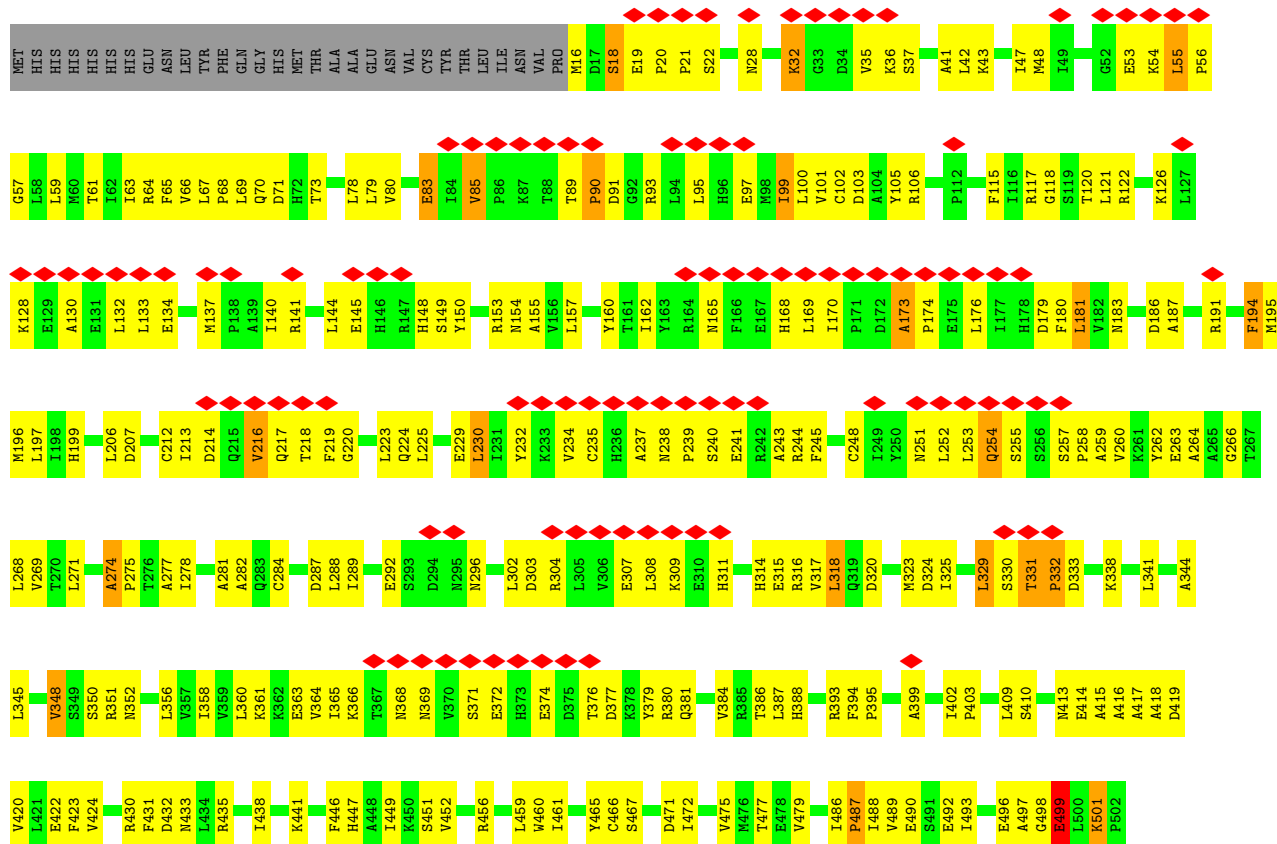
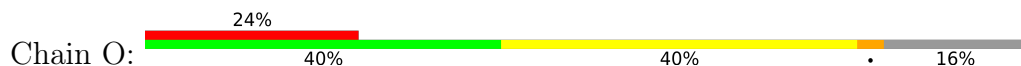


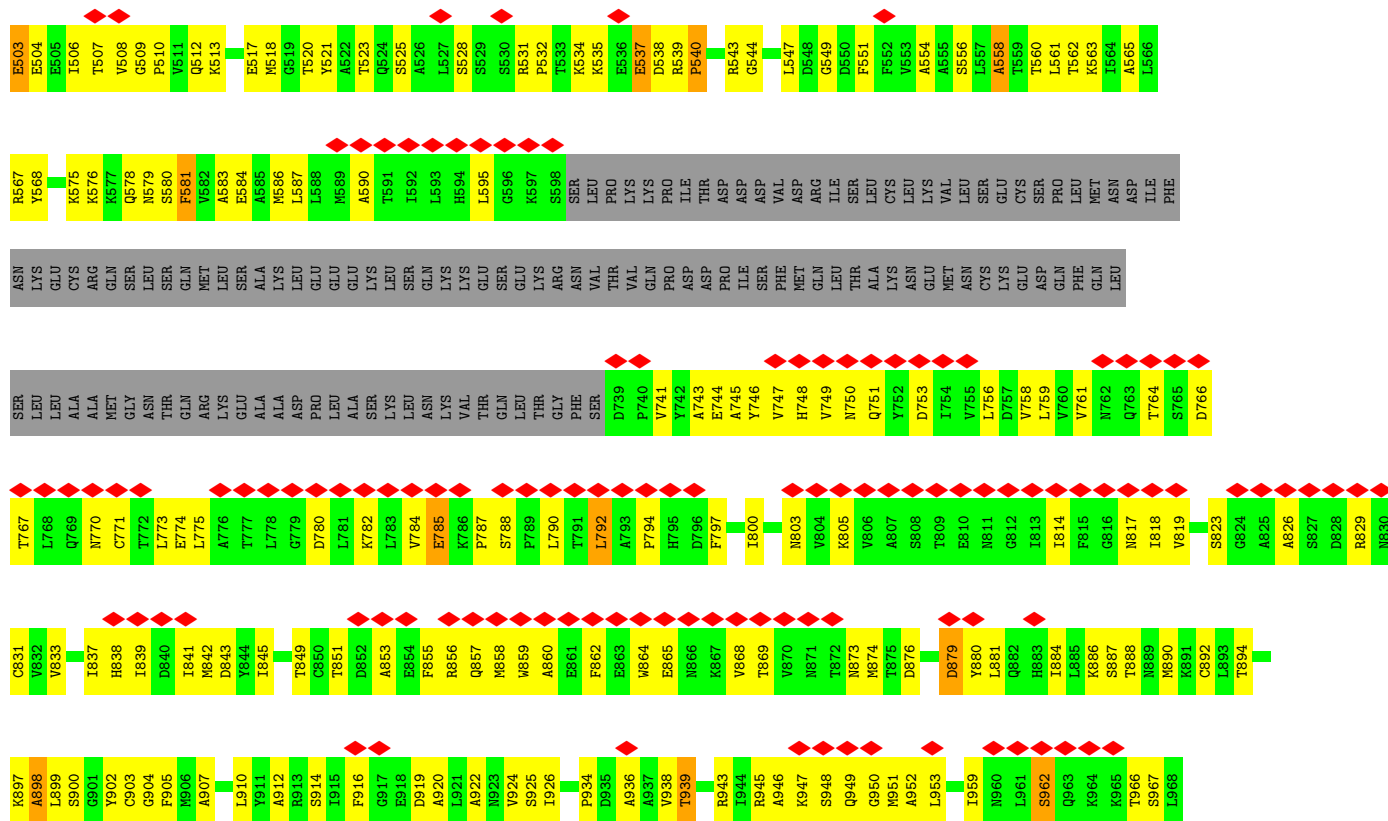
Chain G: 20% 40% 40% 16%



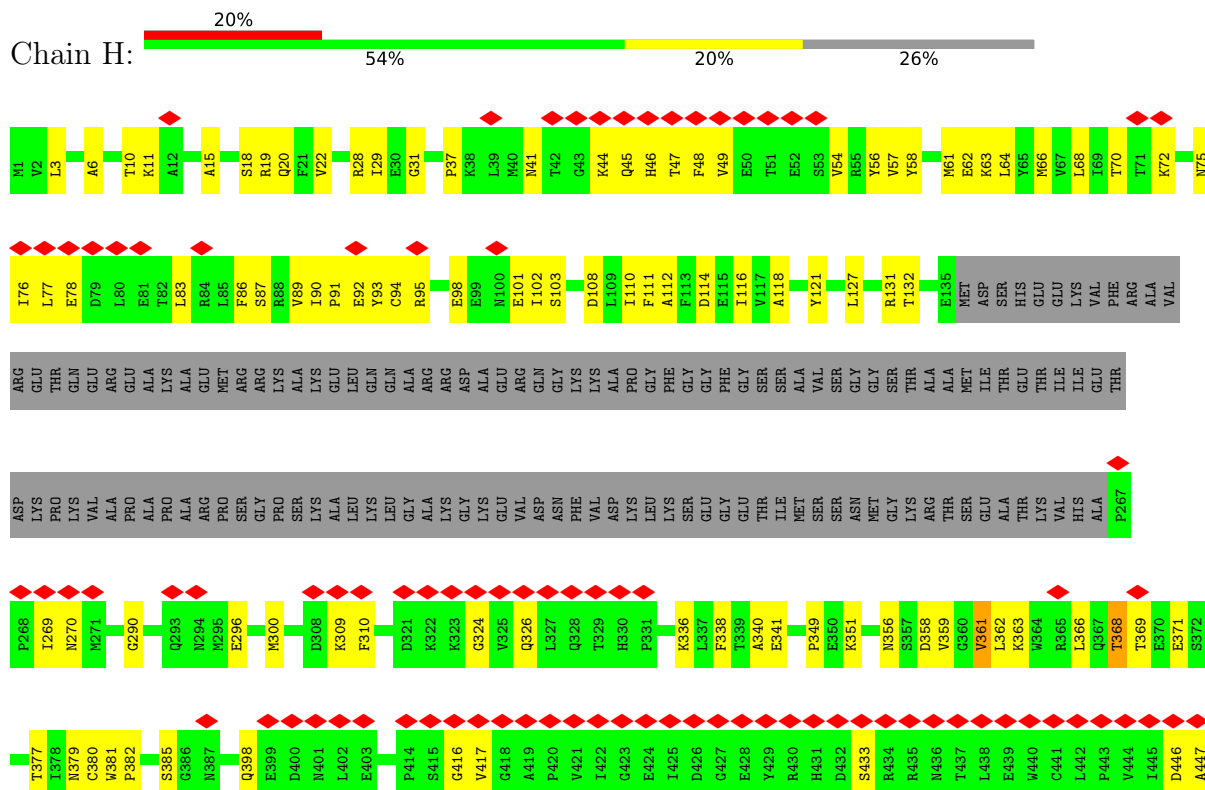


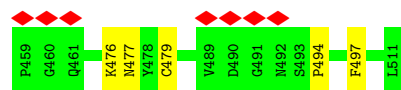
• Molecule 6: COATOMER SUBUNIT BETA



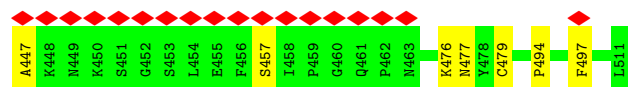
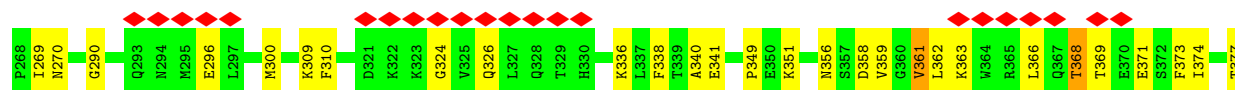
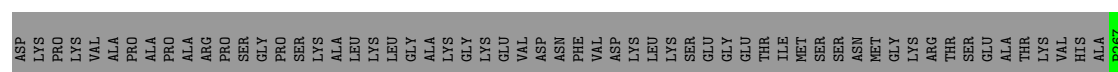
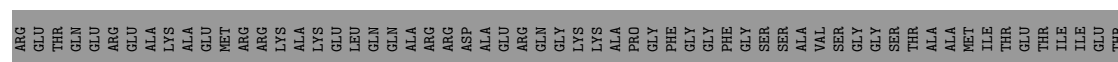
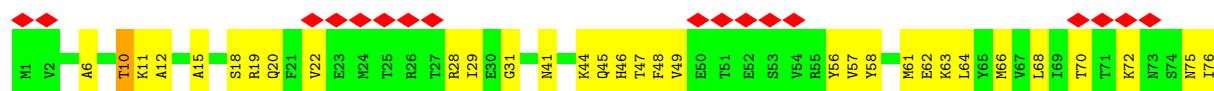


• Molecule 7: COATOMER SUBUNIT DELTA

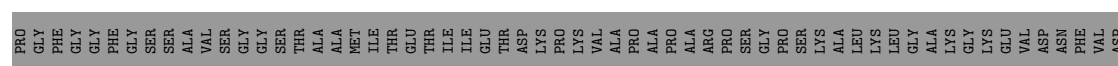
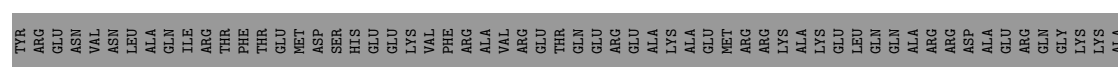
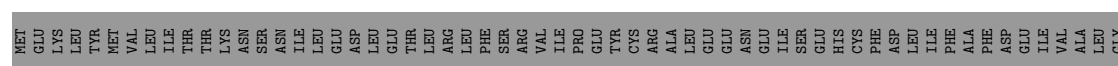
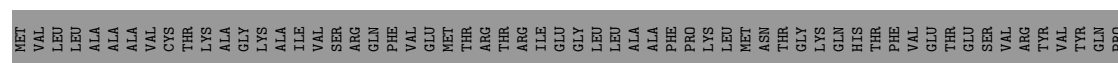
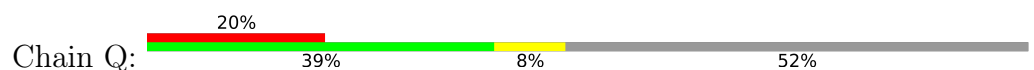


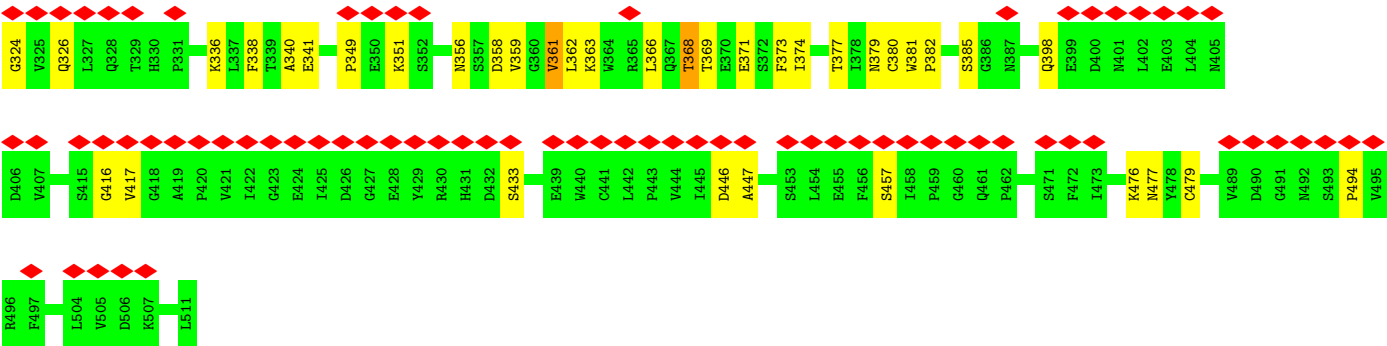


• Molecule 7: COATOMER SUBUNIT DELTA



• Molecule 7: COATOMER SUBUNIT DELTA





4 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of tilted images used	421	Depositor
Resolution determination method	Not provided	
CTF correction method	PHASE FLIPPING OF INDIVIDUAL TILTS	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	42000	Depositor
Image detector	GATAN MULTISCAN	Depositor
Maximum voxel value	7.210	Depositor
Minimum voxel value	-5.962	Depositor
Average voxel value	0.026	Depositor
Voxel value standard deviation	0.898	Depositor
Recommended contour level	1.5	Depositor
Tomogram size ($\text{\AA}$)	403.80002, 403.80002, 403.80002	wwPDB
Tomogram dimensions	200, 200, 200	wwPDB
Tomogram angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Grid spacing ($\text{\AA}$)	2.019, 2.019, 2.019	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	0.69	0/635	1.31	3/792 (0.4%)
1	B	0.69	0/635	1.31	3/792 (0.4%)
1	I	0.69	0/635	1.31	3/792 (0.4%)
1	J	0.69	0/635	1.31	3/792 (0.4%)
2	C	2.64	198/3250 (6.1%)	2.89	329/4061 (8.1%)
2	K	2.64	199/3250 (6.1%)	2.89	328/4061 (8.1%)
3	D	2.70	223/3210 (6.9%)	2.89	341/4011 (8.5%)
3	L	2.71	220/3210 (6.9%)	2.89	343/4011 (8.6%)
4	E	2.61	122/2198 (5.6%)	3.13	286/2746 (10.4%)
4	M	2.63	194/3292 (5.9%)	3.04	402/4112 (9.8%)
5	F	2.73	43/554 (7.8%)	2.99	74/691 (10.7%)
5	N	2.73	40/554 (7.2%)	2.99	72/691 (10.4%)
6	G	2.57	177/3248 (5.4%)	3.09	417/4057 (10.3%)
6	O	2.57	176/3248 (5.4%)	3.09	417/4057 (10.3%)
7	H	2.07	25/1518 (1.6%)	2.47	109/1893 (5.8%)
7	P	2.07	25/1518 (1.6%)	2.47	106/1893 (5.6%)
7	Q	1.77	2/980 (0.2%)	2.03	42/1222 (3.4%)
All	All	2.47	1644/32570 (5.0%)	2.82	3278/40674 (8.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	4
2	K	0	4
3	D	0	2
3	L	0	2
4	E	0	4
4	M	0	4
5	F	0	1
5	N	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	G	0	14
6	O	0	14
All	All	0	50

All (1644) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	330	MET	N-CA	-10.77	1.32	1.46
3	D	330	MET	N-CA	-10.77	1.32	1.46
2	C	98	THR	CA-C	10.50	1.65	1.52
2	K	98	THR	CA-C	10.45	1.65	1.52
3	D	537	THR	N-CA	-10.04	1.33	1.45
3	L	537	THR	N-CA	-9.98	1.33	1.45
4	M	198	GLY	CA-C	-9.83	1.41	1.52
4	E	198	GLY	CA-C	-9.81	1.41	1.52
4	M	536	GLU	CA-C	-9.72	1.40	1.52
3	L	378	TYR	N-CA	-9.69	1.33	1.45
3	D	378	TYR	N-CA	-9.69	1.33	1.45
4	E	536	GLU	CA-C	-9.65	1.40	1.52
6	G	538	ASP	CA-C	-9.62	1.48	1.53
5	N	116	GLU	CA-C	-9.57	1.40	1.52
6	O	538	ASP	CA-C	-9.54	1.48	1.53
5	F	116	GLU	CA-C	-9.53	1.40	1.52
6	G	539	ARG	C-N	9.52	1.44	1.33
6	O	539	ARG	C-N	9.51	1.44	1.33
4	M	645	GLU	CA-C	-9.45	1.44	1.52
2	K	130	VAL	C-N	9.38	1.46	1.33
2	C	130	VAL	C-N	9.37	1.46	1.33
2	K	204	HIS	N-CA	-9.33	1.34	1.46
2	C	204	HIS	N-CA	-9.32	1.34	1.46
2	K	27	SER	CA-C	-9.26	1.41	1.52
2	C	27	SER	CA-C	-9.22	1.41	1.52
6	G	892	CYS	C-N	9.16	1.43	1.33
6	O	892	CYS	C-N	9.16	1.43	1.33
5	F	29	LYS	CA-C	-9.15	1.41	1.52
5	N	29	LYS	CA-C	-9.11	1.41	1.52
2	K	631	LYS	N-CA	-9.07	1.34	1.46
4	M	662	GLN	CA-C	-9.06	1.41	1.52
6	G	118	GLY	CA-C	-9.04	1.41	1.52
6	O	118	GLY	CA-C	-9.04	1.41	1.52
2	C	631	LYS	N-CA	-9.04	1.34	1.46
6	O	351	ARG	CA-C	-9.03	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	509	HIS	CA-C	-9.03	1.42	1.52
4	M	813	CYS	CA-C	-9.00	1.41	1.52
6	G	351	ARG	CA-C	-9.00	1.40	1.52
2	C	509	HIS	CA-C	-8.95	1.42	1.52
6	G	761	VAL	CA-C	-8.92	1.41	1.52
6	O	761	VAL	CA-C	-8.90	1.41	1.52
6	G	879	ASP	CA-C	8.84	1.64	1.52
6	O	879	ASP	CA-C	8.84	1.64	1.52
4	M	613	PHE	N-CA	-8.80	1.35	1.46
3	D	716	ALA	CA-C	-8.77	1.41	1.52
6	G	348	VAL	CA-C	-8.77	1.41	1.52
3	L	716	ALA	CA-C	-8.76	1.41	1.52
3	L	543	LEU	CA-C	-8.71	1.42	1.52
6	O	348	VAL	CA-C	-8.71	1.41	1.52
6	G	304	ARG	CA-C	-8.70	1.42	1.52
6	O	304	ARG	CA-C	-8.68	1.42	1.52
3	D	543	LEU	CA-C	-8.68	1.42	1.52
6	G	447	HIS	CA-C	-8.67	1.41	1.52
6	O	19	GLU	N-CA	-8.65	1.38	1.46
3	D	289	GLY	CA-C	-8.62	1.46	1.52
6	O	447	HIS	CA-C	-8.63	1.41	1.52
2	C	137	TYR	C-N	8.62	1.42	1.33
2	K	224	ALA	CA-C	-8.61	1.42	1.52
3	L	289	GLY	CA-C	-8.60	1.46	1.52
6	G	19	GLU	N-CA	-8.59	1.38	1.46
2	C	224	ALA	CA-C	-8.57	1.42	1.52
2	K	455	GLU	CA-C	-8.54	1.41	1.53
2	C	455	GLU	CA-C	-8.54	1.41	1.53
3	D	799	PRO	C-N	8.54	1.44	1.33
3	D	695	ASP	C-N	8.53	1.45	1.33
4	M	233	ILE	CA-C	-8.53	1.42	1.52
6	G	565	ALA	N-CA	-8.52	1.36	1.46
4	E	233	ILE	CA-C	-8.52	1.42	1.52
3	L	799	PRO	C-N	8.51	1.44	1.33
6	G	857	GLN	N-CA	-8.50	1.36	1.46
6	O	565	ALA	N-CA	-8.49	1.36	1.46
7	H	31	GLY	C-N	8.49	1.44	1.33
4	M	303	LEU	CA-C	-8.49	1.41	1.52
6	O	857	GLN	N-CA	-8.49	1.36	1.46
3	L	695	ASP	C-N	8.46	1.45	1.33
3	D	464	GLN	N-CA	-8.46	1.34	1.45
4	E	303	LEU	CA-C	-8.45	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	160	TYR	N-CA	-8.45	1.35	1.46
6	G	160	TYR	N-CA	-8.43	1.35	1.46
3	L	464	GLN	N-CA	-8.41	1.34	1.45
3	L	111	GLN	N-CA	-8.41	1.40	1.46
3	L	466	LYS	N-CA	-8.39	1.35	1.46
7	P	31	GLY	C-N	8.38	1.44	1.33
2	C	223	GLY	CA-C	-8.36	1.44	1.52
2	K	223	GLY	CA-C	-8.36	1.44	1.52
3	D	466	LYS	N-CA	-8.35	1.35	1.46
3	D	111	GLN	N-CA	-8.34	1.40	1.46
3	L	298	LYS	CA-C	-8.33	1.42	1.52
3	D	645	PHE	N-CA	-8.32	1.36	1.46
3	L	598	VAL	CA-C	-8.30	1.42	1.52
3	L	645	PHE	N-CA	-8.29	1.36	1.46
3	D	598	VAL	CA-C	-8.28	1.42	1.52
3	D	298	LYS	CA-C	-8.25	1.42	1.52
2	K	621	VAL	C-N	8.23	1.45	1.33
5	N	25	ARG	CA-C	-8.20	1.42	1.52
2	C	621	VAL	C-N	8.20	1.45	1.33
5	F	25	ARG	CA-C	-8.18	1.42	1.52
6	O	329	LEU	CA-C	-8.17	1.42	1.52
6	O	374	GLU	C-N	8.17	1.44	1.33
4	E	83	THR	CA-C	-8.15	1.42	1.52
6	G	374	GLU	C-N	8.15	1.44	1.33
3	L	74	THR	C-O	-8.15	1.13	1.23
3	D	74	THR	C-O	-8.15	1.13	1.23
6	G	329	LEU	CA-C	-8.15	1.42	1.52
4	M	828	LEU	CA-C	-8.14	1.42	1.52
6	G	148	HIS	CA-C	-8.14	1.42	1.52
5	N	68	VAL	CA-C	-8.14	1.42	1.52
5	F	68	VAL	CA-C	-8.12	1.42	1.52
4	E	455	ILE	C-N	8.12	1.44	1.33
4	M	455	ILE	C-N	8.12	1.44	1.33
2	C	154	SER	CA-C	-8.10	1.42	1.52
3	D	555	ALA	CA-C	-8.10	1.43	1.52
2	K	550	LYS	CA-C	-8.09	1.42	1.52
3	L	555	ALA	CA-C	-8.09	1.43	1.52
4	M	83	THR	CA-C	-8.09	1.42	1.52
6	O	148	HIS	CA-C	-8.08	1.43	1.52
2	C	550	LYS	CA-C	-8.08	1.42	1.52
2	K	297	LEU	CA-C	-8.06	1.42	1.52
2	C	341	LEU	CA-C	8.06	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	154	SER	CA-C	-8.04	1.42	1.52
2	C	297	LEU	CA-C	-8.03	1.42	1.52
2	K	137	TYR	C-N	8.00	1.42	1.33
2	K	252	VAL	CA-C	-7.99	1.43	1.52
3	D	159	ALA	CA-C	-7.98	1.43	1.52
2	K	341	LEU	CA-C	7.98	1.60	1.53
6	O	145	GLU	C-N	7.97	1.44	1.33
2	C	252	VAL	CA-C	-7.96	1.43	1.52
2	C	77	VAL	CA-C	-7.95	1.43	1.52
6	O	773	LEU	CA-C	-7.94	1.42	1.52
2	K	353	ALA	N-CA	-7.94	1.36	1.45
3	L	159	ALA	CA-C	-7.93	1.43	1.52
6	G	145	GLU	C-N	7.92	1.44	1.33
2	C	353	ALA	N-CA	-7.92	1.36	1.45
2	C	584	GLU	C-N	7.91	1.44	1.33
2	C	652	ALA	C-N	7.91	1.44	1.34
2	K	584	GLU	C-N	7.90	1.44	1.33
2	K	652	ALA	C-N	7.90	1.44	1.34
3	D	562	TYR	CA-C	-7.88	1.43	1.52
6	G	773	LEU	CA-C	-7.88	1.43	1.52
4	M	693	VAL	N-CA	-7.88	1.39	1.46
2	K	77	VAL	CA-C	-7.86	1.43	1.52
2	C	631	LYS	C-N	7.84	1.44	1.33
6	O	329	LEU	C-N	7.84	1.44	1.33
2	K	631	LYS	C-N	7.84	1.44	1.33
4	E	123	PRO	N-CA	-7.83	1.37	1.47
3	L	562	TYR	CA-C	-7.83	1.43	1.52
4	M	696	ARG	N-CA	-7.82	1.37	1.46
4	M	123	PRO	N-CA	-7.81	1.37	1.47
6	G	329	LEU	C-N	7.81	1.44	1.33
3	D	191	ILE	CA-C	-7.79	1.42	1.52
2	K	85	CYS	CA-C	-7.79	1.43	1.52
3	L	191	ILE	CA-C	-7.77	1.42	1.52
2	C	85	CYS	CA-C	-7.77	1.43	1.52
7	P	132	THR	CA-C	7.77	1.62	1.52
6	O	472	ILE	N-CA	-7.76	1.37	1.46
2	K	525	HIS	N-CA	-7.75	1.36	1.46
3	L	621	VAL	N-CA	-7.75	1.37	1.46
2	C	525	HIS	N-CA	-7.75	1.36	1.46
3	D	550	GLU	CA-C	-7.75	1.43	1.52
3	L	550	GLU	CA-C	-7.75	1.43	1.52
3	L	276	CYS	CA-C	-7.74	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	127	CYS	CA-C	-7.73	1.43	1.52
3	D	621	VAL	N-CA	-7.73	1.37	1.46
7	H	132	THR	CA-C	7.72	1.62	1.52
5	N	19	LEU	CA-C	-7.67	1.43	1.52
6	G	472	ILE	N-CA	-7.67	1.37	1.46
3	D	451	ASP	CA-C	-7.67	1.42	1.52
3	D	276	CYS	CA-C	-7.66	1.43	1.52
5	F	19	LEU	CA-C	-7.66	1.43	1.52
2	C	127	CYS	CA-C	-7.66	1.43	1.52
3	L	451	ASP	CA-C	-7.65	1.42	1.52
3	D	122	LEU	CA-C	-7.63	1.43	1.52
2	C	220	ILE	CA-C	-7.63	1.43	1.52
2	C	560	ILE	CA-C	-7.61	1.43	1.52
4	M	765	GLN	CA-C	-7.61	1.43	1.52
2	K	560	ILE	CA-C	-7.60	1.43	1.52
3	D	414	ILE	CA-C	-7.60	1.43	1.52
3	L	122	LEU	CA-C	-7.58	1.43	1.52
4	M	741	GLU	CA-C	-7.58	1.42	1.52
3	D	586	SER	N-CA	-7.58	1.36	1.46
6	G	580	SER	CA-C	-7.58	1.43	1.52
6	O	920	ALA	CA-C	-7.58	1.43	1.52
2	K	220	ILE	CA-C	-7.58	1.43	1.52
4	M	542	LEU	N-CA	-7.58	1.37	1.46
3	L	586	SER	N-CA	-7.57	1.36	1.46
3	L	414	ILE	CA-C	-7.57	1.43	1.52
6	G	433	ASN	CA-C	-7.57	1.42	1.53
3	L	468	ILE	CA-C	-7.57	1.43	1.52
4	M	846	LEU	CA-C	-7.56	1.43	1.52
6	G	920	ALA	CA-C	-7.56	1.43	1.52
5	N	12	THR	C-N	7.56	1.43	1.33
5	F	117	ASN	CA-C	-7.55	1.44	1.53
3	D	33	SER	N-CA	-7.55	1.36	1.46
6	O	580	SER	CA-C	-7.55	1.43	1.52
5	F	12	THR	C-N	7.55	1.43	1.33
3	D	468	ILE	CA-C	-7.54	1.43	1.52
4	E	124	ALA	CA-C	-7.54	1.43	1.52
5	N	117	ASN	CA-C	-7.54	1.44	1.53
4	M	99	ALA	N-CA	-7.52	1.36	1.46
4	M	728	MET	CA-C	-7.51	1.43	1.52
4	M	124	ALA	CA-C	-7.50	1.43	1.52
6	O	433	ASN	CA-C	-7.50	1.43	1.53
3	D	296	ILE	CA-C	-7.50	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	33	SER	N-CA	-7.50	1.37	1.46
4	E	99	ALA	N-CA	-7.49	1.36	1.46
3	D	310	ALA	N-CA	-7.49	1.36	1.46
2	K	505	LEU	CA-C	-7.49	1.43	1.52
4	E	542	LEU	N-CA	-7.48	1.37	1.46
3	L	310	ALA	N-CA	-7.47	1.36	1.46
2	C	505	LEU	CA-C	-7.46	1.43	1.52
4	M	530	PHE	N-CA	-7.44	1.37	1.46
7	H	61	MET	CA-C	-7.44	1.44	1.52
3	D	16	ASP	C-N	7.44	1.44	1.33
3	L	296	ILE	CA-C	-7.42	1.43	1.52
3	L	567	ILE	CA-C	-7.42	1.47	1.53
2	K	172	LEU	CA-C	-7.39	1.43	1.52
4	E	208	ARG	CA-C	-7.39	1.43	1.52
7	P	93	TYR	C-N	7.39	1.44	1.33
2	C	172	LEU	CA-C	-7.38	1.43	1.52
3	D	50	VAL	C-N	7.38	1.42	1.33
4	M	208	ARG	CA-C	-7.37	1.43	1.52
3	D	126	TRP	CA-C	-7.37	1.43	1.52
3	D	186	LYS	C-N	7.37	1.43	1.32
3	D	228	HIS	CA-C	-7.37	1.43	1.52
3	D	567	ILE	CA-C	-7.37	1.47	1.53
3	D	295	ILE	N-CA	-7.37	1.37	1.46
3	D	366	PHE	CA-C	-7.37	1.43	1.52
2	K	792	ALA	CA-C	-7.37	1.43	1.52
3	L	126	TRP	CA-C	-7.37	1.43	1.52
7	P	61	MET	CA-C	-7.37	1.44	1.52
5	F	129	VAL	CA-C	-7.36	1.44	1.52
4	M	602	PRO	CA-C	-7.36	1.44	1.52
3	L	16	ASP	C-N	7.35	1.44	1.33
3	D	772	LEU	C-N	7.35	1.44	1.33
2	C	471	SER	C-N	7.34	1.42	1.33
2	C	792	ALA	CA-C	-7.34	1.43	1.52
4	E	530	PHE	N-CA	-7.34	1.37	1.46
3	L	186	LYS	C-N	7.33	1.43	1.32
3	L	767	SER	N-CA	-7.33	1.37	1.46
3	L	772	LEU	C-N	7.33	1.44	1.33
3	L	295	ILE	N-CA	-7.33	1.37	1.46
2	C	661	ALA	CA-C	-7.33	1.43	1.52
3	L	50	VAL	C-N	7.33	1.42	1.33
2	K	471	SER	C-N	7.33	1.42	1.33
7	H	93	TYR	C-N	7.33	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	N	129	VAL	CA-C	-7.33	1.44	1.52
3	L	366	PHE	CA-C	-7.31	1.43	1.52
3	D	767	SER	N-CA	-7.31	1.37	1.46
4	M	53	TYR	C-O	-7.30	1.15	1.24
3	L	508	ASP	CA-C	-7.29	1.43	1.52
3	L	228	HIS	CA-C	-7.28	1.43	1.52
4	E	53	TYR	C-O	-7.26	1.15	1.24
3	D	595	GLN	C-N	7.25	1.43	1.33
3	L	595	GLN	C-N	7.25	1.43	1.33
3	D	508	ASP	CA-C	-7.24	1.43	1.52
2	K	661	ALA	CA-C	-7.24	1.43	1.52
4	M	638	ALA	N-CA	-7.22	1.37	1.46
4	E	263	HIS	N-CA	-7.22	1.36	1.46
2	K	782	LYS	CA-C	-7.21	1.43	1.52
3	L	184	HIS	CA-C	-7.20	1.44	1.52
3	L	3	LEU	C-N	7.20	1.43	1.33
2	C	782	LYS	CA-C	-7.19	1.43	1.52
6	O	289	ILE	CA-C	-7.19	1.43	1.52
4	E	412	GLU	C-N	7.19	1.43	1.33
4	M	540	LYS	CA-C	-7.19	1.43	1.52
3	D	184	HIS	CA-C	-7.18	1.44	1.52
4	M	412	GLU	C-N	7.18	1.43	1.33
6	G	745	ALA	N-CA	-7.17	1.37	1.46
6	G	289	ILE	CA-C	-7.17	1.43	1.52
6	O	510	PRO	C-N	7.17	1.43	1.33
2	C	517	LYS	CA-C	7.17	1.62	1.52
5	N	28	ALA	N-CA	-7.16	1.37	1.46
6	G	510	PRO	C-N	7.16	1.43	1.33
4	M	263	HIS	N-CA	-7.16	1.36	1.46
4	M	561	ALA	CA-C	7.16	1.62	1.52
4	E	370	GLU	N-CA	-7.16	1.37	1.46
3	L	208	ASP	C-N	7.16	1.43	1.33
3	D	3	LEU	C-N	7.15	1.43	1.33
2	C	763	ALA	CA-C	-7.15	1.43	1.52
2	C	216	THR	C-N	7.15	1.42	1.33
4	M	370	GLU	N-CA	-7.14	1.37	1.46
2	K	517	LYS	CA-C	7.14	1.62	1.52
6	G	467	SER	C-N	7.14	1.43	1.33
6	O	898	ALA	C-N	7.13	1.43	1.33
6	G	792	LEU	N-CA	-7.13	1.36	1.46
2	C	650	SER	N-CA	-7.13	1.37	1.46
3	D	575	LEU	CA-C	-7.13	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	252	PHE	N-CA	-7.13	1.38	1.46
5	F	28	ALA	N-CA	-7.13	1.37	1.46
6	O	467	SER	C-N	7.13	1.43	1.33
3	L	575	LEU	CA-C	-7.12	1.44	1.52
3	D	208	ASP	C-N	7.12	1.43	1.33
4	E	561	ALA	CA-C	7.12	1.62	1.52
3	L	340	ARG	CA-C	-7.12	1.43	1.52
6	G	898	ALA	C-N	7.12	1.43	1.33
3	L	723	GLY	CA-C	-7.12	1.41	1.51
2	K	650	SER	N-CA	-7.11	1.37	1.46
6	O	745	ALA	N-CA	-7.11	1.37	1.46
6	O	792	LEU	N-CA	-7.11	1.37	1.46
2	C	694	TYR	C-N	7.10	1.43	1.33
4	M	613	PHE	CA-C	-7.10	1.43	1.52
3	D	723	GLY	CA-C	-7.10	1.41	1.51
4	M	252	PHE	N-CA	-7.10	1.38	1.46
6	O	394	PHE	CA-C	-7.10	1.45	1.52
2	C	524	ILE	CA-C	-7.09	1.44	1.52
2	K	763	ALA	CA-C	-7.09	1.43	1.52
3	L	667	GLU	N-CA	7.09	1.55	1.46
4	E	540	LYS	CA-C	-7.08	1.43	1.52
5	N	28	ALA	CA-C	-7.08	1.43	1.52
2	K	216	THR	C-N	7.07	1.41	1.33
5	F	28	ALA	CA-C	-7.07	1.43	1.52
2	C	714	GLU	C-O	7.06	1.32	1.24
3	D	340	ARG	CA-C	-7.06	1.43	1.52
6	G	394	PHE	CA-C	-7.06	1.45	1.52
2	K	524	ILE	CA-C	-7.06	1.44	1.52
3	D	667	GLU	N-CA	7.06	1.55	1.46
2	C	511	ILE	N-CA	-7.06	1.38	1.46
2	K	748	ILE	N-CA	7.05	1.54	1.46
2	C	579	TYR	CA-C	-7.05	1.44	1.52
4	M	432	LYS	C-N	7.05	1.43	1.33
4	M	136	MET	C-N	7.05	1.43	1.33
2	K	420	TRP	C-N	7.04	1.42	1.33
2	K	694	TYR	C-N	7.04	1.43	1.33
2	K	714	GLU	C-O	7.04	1.32	1.24
6	O	132	LEU	N-CA	-7.04	1.37	1.46
4	M	492	VAL	CA-C	-7.03	1.43	1.52
2	K	579	TYR	CA-C	-7.03	1.44	1.52
2	C	748	ILE	N-CA	7.03	1.54	1.46
4	E	492	VAL	CA-C	-7.03	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	132	LEU	N-CA	-7.03	1.37	1.46
2	K	737	LEU	CA-C	-7.03	1.43	1.52
2	K	511	ILE	N-CA	-7.02	1.38	1.46
2	K	531	LYS	CA-C	-7.02	1.44	1.52
2	C	140	CYS	CA-C	-7.01	1.43	1.52
2	K	140	CYS	CA-C	-7.01	1.43	1.52
4	E	136	MET	C-N	7.01	1.43	1.33
2	K	259	PRO	CA-C	-7.00	1.42	1.52
2	C	737	LEU	CA-C	-7.00	1.43	1.52
4	E	432	LYS	C-N	7.00	1.43	1.33
6	O	117	ARG	CA-C	-7.00	1.43	1.52
2	C	259	PRO	CA-C	-6.99	1.42	1.52
2	C	392	ASP	CA-C	-6.99	1.43	1.52
2	C	420	TRP	C-N	6.99	1.42	1.33
4	E	559	GLU	CA-C	-6.99	1.43	1.52
4	M	633	SER	C-N	-6.99	1.28	1.33
2	C	531	LYS	CA-C	-6.98	1.44	1.52
6	G	117	ARG	CA-C	-6.98	1.43	1.52
4	M	559	GLU	CA-C	-6.98	1.43	1.52
2	K	644	ASP	CA-C	-6.97	1.43	1.52
4	M	731	THR	C-N	6.97	1.43	1.33
3	D	507	GLU	CA-C	-6.97	1.44	1.53
2	K	392	ASP	CA-C	-6.96	1.44	1.52
2	K	740	GLY	CA-C	-6.96	1.43	1.52
2	C	495	ILE	CA-C	-6.96	1.44	1.52
6	O	767	THR	C-N	6.96	1.44	1.33
7	H	86	PHE	N-CA	-6.95	1.38	1.46
6	G	61	THR	CA-C	-6.95	1.44	1.52
2	C	740	GLY	CA-C	-6.95	1.43	1.52
2	K	495	ILE	CA-C	-6.95	1.44	1.52
2	C	644	ASP	CA-C	-6.94	1.43	1.52
6	G	767	THR	C-N	6.94	1.44	1.33
3	L	114	ILE	CA-C	-6.93	1.44	1.52
3	D	114	ILE	CA-C	-6.93	1.44	1.52
4	M	845	ARG	CA-C	-6.92	1.44	1.52
6	O	61	THR	CA-C	-6.92	1.44	1.52
4	E	95	MET	C-N	6.92	1.42	1.33
7	P	86	PHE	N-CA	-6.92	1.38	1.46
5	F	87	GLU	CA-C	-6.92	1.43	1.52
5	N	87	GLU	CA-C	-6.92	1.43	1.52
7	P	10	THR	CA-C	-6.92	1.44	1.52
4	M	95	MET	C-N	6.91	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	264	GLU	CA-C	-6.91	1.43	1.52
4	E	264	GLU	CA-C	-6.91	1.43	1.52
2	K	525	HIS	CA-C	-6.91	1.44	1.52
6	O	220	GLY	C-N	6.89	1.43	1.33
2	C	298	ALA	C-N	6.89	1.44	1.33
7	H	10	THR	CA-C	-6.89	1.44	1.52
3	D	624	PHE	N-CA	-6.88	1.38	1.46
2	K	298	ALA	C-N	6.88	1.44	1.33
3	D	694	GLN	CA-C	6.88	1.61	1.52
2	C	525	HIS	CA-C	-6.88	1.44	1.52
6	G	220	GLY	C-N	6.88	1.43	1.33
3	L	694	GLN	CA-C	6.87	1.61	1.52
6	O	93	ARG	CA-C	-6.87	1.46	1.52
4	E	64	THR	CA-C	-6.86	1.44	1.52
4	E	121	ARG	C-O	-6.85	1.16	1.24
3	L	507	GLU	CA-C	-6.85	1.44	1.53
3	L	90	GLU	CA-C	-6.85	1.44	1.52
4	M	64	THR	CA-C	-6.85	1.44	1.52
3	L	74	THR	N-CA	-6.84	1.37	1.45
4	M	788	THR	CA-C	-6.83	1.44	1.52
3	D	90	GLU	CA-C	-6.83	1.44	1.52
2	C	694	TYR	N-CA	-6.83	1.37	1.46
5	N	14	LYS	CA-C	-6.83	1.44	1.52
2	K	533	GLY	N-CA	-6.82	1.39	1.45
4	M	843	ARG	CA-C	-6.82	1.44	1.52
2	C	464	LEU	N-CA	-6.82	1.39	1.46
6	G	217	GLN	CA-C	-6.82	1.44	1.52
3	L	502	HIS	CA-C	-6.82	1.44	1.53
3	D	502	HIS	CA-C	-6.82	1.44	1.53
3	L	205	GLY	CA-C	-6.81	1.46	1.51
6	G	93	ARG	CA-C	-6.81	1.46	1.52
6	O	409	LEU	N-CA	-6.80	1.38	1.46
6	O	759	LEU	N-CA	-6.80	1.37	1.46
3	D	74	THR	N-CA	-6.80	1.37	1.45
6	O	217	GLN	CA-C	-6.80	1.44	1.52
3	L	624	PHE	N-CA	-6.79	1.38	1.46
2	K	694	TYR	N-CA	-6.78	1.37	1.46
3	D	205	GLY	CA-C	-6.78	1.46	1.51
5	F	14	LYS	CA-C	-6.78	1.44	1.52
6	G	759	LEU	N-CA	-6.78	1.37	1.46
3	D	769	VAL	CA-C	-6.76	1.44	1.52
2	C	533	GLY	N-CA	-6.76	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	660	LEU	N-CA	-6.76	1.38	1.46
2	C	410	GLY	C-N	6.75	1.42	1.33
4	M	121	ARG	C-O	-6.75	1.16	1.24
2	K	499	ASP	N-CA	-6.75	1.37	1.46
3	L	769	VAL	CA-C	-6.74	1.44	1.52
6	G	409	LEU	N-CA	-6.74	1.38	1.46
6	G	518	MET	N-CA	-6.74	1.38	1.46
6	O	518	MET	N-CA	-6.74	1.38	1.46
4	M	404	MET	C-N	6.74	1.42	1.33
3	D	660	LEU	N-CA	-6.73	1.38	1.46
3	D	479	ILE	N-CA	-6.73	1.38	1.46
2	K	410	GLY	C-N	6.73	1.42	1.33
3	L	331	GLY	CA-C	-6.72	1.42	1.51
3	L	479	ILE	N-CA	-6.71	1.38	1.46
2	C	499	ASP	N-CA	-6.71	1.37	1.46
2	C	510	ALA	N-CA	-6.71	1.38	1.47
2	K	623	GLN	CA-C	-6.71	1.45	1.53
3	D	288	LEU	C-N	6.70	1.39	1.33
2	K	510	ALA	N-CA	-6.69	1.38	1.47
2	C	111	ALA	C-N	6.69	1.42	1.33
6	G	229	GLU	C-N	6.69	1.43	1.33
2	K	288	ARG	CA-C	-6.69	1.44	1.52
3	D	83	VAL	N-CA	-6.68	1.38	1.46
4	M	483	GLU	CA-C	-6.68	1.44	1.52
2	C	623	GLN	CA-C	-6.68	1.45	1.53
3	D	749	GLY	C-N	6.68	1.40	1.33
2	C	121	ASN	CA-C	-6.67	1.44	1.52
4	M	170	SER	N-CA	-6.67	1.38	1.46
4	M	337	ASN	N-CA	-6.67	1.37	1.46
6	G	853	ALA	C-N	6.67	1.43	1.33
2	K	464	LEU	N-CA	-6.67	1.39	1.46
4	E	170	SER	N-CA	-6.67	1.38	1.46
3	D	139	GLU	CA-C	-6.67	1.44	1.52
2	K	226	ASP	CA-C	-6.67	1.43	1.52
2	K	111	ALA	C-N	6.67	1.42	1.33
3	L	139	GLU	CA-C	-6.67	1.44	1.52
6	O	229	GLU	C-N	6.66	1.43	1.33
4	E	337	ASN	N-CA	-6.66	1.37	1.46
2	K	121	ASN	CA-C	-6.66	1.44	1.52
2	C	288	ARG	CA-C	-6.66	1.44	1.52
3	D	331	GLY	CA-C	-6.66	1.42	1.51
6	G	380	ARG	CA-C	-6.65	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	404	MET	C-N	6.65	1.42	1.33
3	L	83	VAL	N-CA	-6.65	1.38	1.46
2	C	723	ALA	CA-C	-6.64	1.42	1.52
6	G	196	MET	N-CA	-6.64	1.38	1.46
3	L	199	LYS	CA-C	-6.64	1.45	1.52
3	L	749	GLY	C-N	6.64	1.40	1.33
3	D	199	LYS	CA-C	-6.63	1.45	1.52
4	E	483	GLU	CA-C	-6.63	1.44	1.52
2	K	723	ALA	CA-C	-6.63	1.42	1.52
3	L	288	LEU	C-N	6.63	1.39	1.33
2	C	741	ASP	CA-C	-6.63	1.45	1.52
6	O	196	MET	N-CA	-6.63	1.38	1.46
2	C	463	ASN	N-CA	-6.63	1.37	1.46
3	D	53	PHE	N-CA	-6.63	1.37	1.46
4	E	351	THR	CA-C	6.63	1.61	1.52
4	M	351	THR	CA-C	6.63	1.61	1.52
6	O	853	ALA	C-N	6.63	1.43	1.33
2	K	741	ASP	CA-C	-6.63	1.45	1.52
7	P	58	TYR	N-CA	-6.62	1.38	1.46
2	C	226	ASP	CA-C	-6.62	1.44	1.52
3	L	46	THR	CA-C	-6.62	1.43	1.52
7	H	58	TYR	N-CA	-6.61	1.38	1.46
6	O	380	ARG	CA-C	-6.61	1.44	1.52
3	D	46	THR	CA-C	-6.60	1.43	1.52
6	O	914	SER	CA-C	-6.60	1.44	1.52
4	M	294	LEU	CA-C	-6.60	1.44	1.52
2	C	42	THR	CA-C	-6.60	1.44	1.52
3	L	649	LEU	C-N	6.59	1.42	1.33
6	O	741	VAL	N-CA	-6.59	1.38	1.46
2	C	602	ALA	C-N	6.59	1.42	1.33
6	O	460	TRP	C-N	6.59	1.42	1.33
6	G	914	SER	CA-C	-6.59	1.44	1.52
2	K	463	ASN	N-CA	-6.59	1.37	1.46
4	M	838	HIS	CA-C	-6.58	1.44	1.52
4	E	49	THR	CA-C	-6.58	1.44	1.52
3	L	227	GLY	CA-C	-6.58	1.42	1.51
2	K	602	ALA	C-N	6.58	1.42	1.33
4	E	294	LEU	CA-C	-6.57	1.44	1.52
6	G	456	ARG	CA-C	-6.57	1.44	1.52
3	L	53	PHE	N-CA	-6.57	1.37	1.46
2	C	229	VAL	N-CA	-6.56	1.38	1.46
3	D	227	GLY	CA-C	-6.56	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	121	LEU	CA-C	-6.56	1.44	1.52
4	E	229	TYR	CA-C	-6.56	1.44	1.52
6	G	460	TRP	C-N	6.56	1.42	1.33
5	N	52	THR	N-CA	-6.55	1.38	1.46
3	D	649	LEU	C-N	6.55	1.42	1.33
2	K	229	VAL	N-CA	-6.55	1.38	1.46
6	O	456	ARG	CA-C	-6.54	1.44	1.52
2	K	42	THR	CA-C	-6.54	1.44	1.52
6	O	386	THR	C-N	6.54	1.42	1.33
5	F	52	THR	N-CA	-6.54	1.38	1.46
6	G	741	VAL	N-CA	-6.54	1.38	1.46
3	L	541	ASN	CA-C	-6.54	1.44	1.53
3	L	697	GLY	CA-C	-6.53	1.45	1.52
4	M	49	THR	CA-C	-6.53	1.44	1.52
3	L	404	ALA	N-CA	-6.53	1.37	1.45
6	O	122	ARG	N-CA	-6.52	1.38	1.46
3	D	697	GLY	CA-C	-6.52	1.45	1.52
3	D	297	VAL	CA-C	-6.51	1.44	1.52
6	G	121	LEU	CA-C	-6.51	1.44	1.52
6	G	386	THR	C-N	6.51	1.42	1.33
6	G	884	ILE	C-N	6.50	1.42	1.34
5	N	89	MET	CA-C	-6.50	1.44	1.52
6	O	884	ILE	C-N	6.50	1.42	1.34
5	F	89	MET	CA-C	-6.49	1.44	1.52
4	E	431	SER	CA-C	-6.49	1.44	1.52
4	E	423	SER	N-CA	-6.49	1.38	1.46
3	D	541	ASN	CA-C	-6.49	1.44	1.53
6	G	122	ARG	N-CA	-6.48	1.38	1.46
4	M	423	SER	N-CA	-6.48	1.38	1.46
3	D	404	ALA	N-CA	-6.47	1.37	1.45
4	M	229	TYR	CA-C	-6.47	1.44	1.52
3	D	123	ILE	N-CA	-6.47	1.38	1.46
5	N	101	LEU	CA-C	-6.46	1.44	1.52
3	L	81	ILE	CA-C	-6.46	1.45	1.52
2	C	436	LEU	N-CA	-6.46	1.38	1.45
2	K	436	LEU	N-CA	-6.46	1.38	1.45
3	L	297	VAL	CA-C	-6.46	1.45	1.52
2	C	433	HIS	C-N	6.45	1.42	1.33
2	C	521	LEU	C-O	-6.45	1.16	1.24
4	M	431	SER	CA-C	-6.45	1.44	1.52
3	L	123	ILE	N-CA	-6.45	1.38	1.46
3	L	283	SER	C-N	6.45	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	116	THR	CA-C	-6.44	1.44	1.52
2	K	218	PRO	N-CA	-6.44	1.39	1.47
2	C	218	PRO	N-CA	-6.44	1.39	1.47
5	F	101	LEU	CA-C	-6.44	1.44	1.52
2	K	231	ILE	CA-C	-6.44	1.45	1.52
4	M	745	GLU	CA-C	6.44	1.60	1.52
3	D	81	ILE	CA-C	-6.43	1.45	1.52
3	L	510	ILE	CA-C	-6.43	1.45	1.52
7	H	110	ILE	N-CA	-6.43	1.38	1.46
3	D	116	THR	N-CA	-6.43	1.37	1.45
2	K	433	HIS	C-N	6.43	1.42	1.33
4	E	79	SER	CA-C	-6.42	1.45	1.52
4	E	551	LEU	N-CA	-6.42	1.38	1.46
4	M	551	LEU	N-CA	-6.42	1.38	1.46
3	D	283	SER	C-N	6.42	1.42	1.33
6	G	422	GLU	CA-C	-6.42	1.44	1.52
3	D	671	LYS	CA-C	-6.42	1.44	1.52
4	M	101	ASP	C-N	6.42	1.41	1.34
4	E	101	ASP	C-N	6.41	1.41	1.34
3	D	510	ILE	CA-C	-6.41	1.45	1.52
3	L	671	LYS	CA-C	-6.41	1.44	1.52
6	O	431	PHE	N-CA	-6.41	1.37	1.46
3	D	796	ASN	C-N	6.41	1.41	1.33
3	L	80	GLN	N-CA	-6.41	1.38	1.45
3	L	796	ASN	C-N	6.41	1.41	1.33
6	O	364	VAL	CA-C	-6.41	1.46	1.53
6	G	431	PHE	N-CA	-6.40	1.37	1.46
4	M	608	THR	C-N	6.40	1.42	1.33
7	P	110	ILE	N-CA	-6.40	1.38	1.46
3	D	116	THR	CA-C	-6.40	1.44	1.52
4	M	614	GLN	CA-C	-6.40	1.44	1.52
3	D	76	ALA	N-CA	-6.40	1.36	1.46
2	K	521	LEU	C-O	-6.40	1.16	1.24
3	L	76	ALA	N-CA	-6.39	1.36	1.46
6	O	422	GLU	CA-C	-6.38	1.44	1.52
3	L	116	THR	N-CA	-6.38	1.37	1.45
4	M	564	GLN	N-CA	-6.37	1.38	1.46
3	D	80	GLN	N-CA	-6.36	1.38	1.45
2	C	231	ILE	CA-C	-6.35	1.45	1.52
2	K	300	HIS	CA-C	-6.35	1.45	1.52
2	C	102	HIS	CA-C	-6.34	1.44	1.52
6	G	922	ALA	CA-C	-6.34	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	922	ALA	CA-C	-6.34	1.45	1.52
6	G	364	VAL	CA-C	-6.34	1.46	1.53
2	K	102	HIS	CA-C	-6.33	1.44	1.52
4	M	79	SER	CA-C	-6.33	1.45	1.52
6	O	509	GLY	CA-C	-6.33	1.42	1.51
4	E	564	GLN	N-CA	-6.33	1.38	1.46
3	L	431	GLU	C-N	6.33	1.41	1.33
4	E	301	ALA	C-N	6.32	1.42	1.34
6	O	18	SER	CA-C	-6.32	1.44	1.52
6	O	780	ASP	N-CA	-6.32	1.37	1.46
6	G	780	ASP	N-CA	-6.31	1.37	1.46
6	G	509	GLY	CA-C	-6.31	1.42	1.51
4	M	301	ALA	C-N	6.31	1.42	1.34
7	P	91	PRO	C-N	6.30	1.42	1.33
3	L	654	LEU	CA-C	-6.30	1.44	1.52
2	C	135	ASN	C-N	6.29	1.41	1.33
2	K	374	GLU	CA-C	-6.29	1.44	1.52
3	L	222	VAL	N-CA	-6.29	1.39	1.46
3	L	711	MET	CA-C	-6.29	1.46	1.53
2	C	300	HIS	CA-C	-6.29	1.45	1.52
6	O	278	ILE	CA-C	-6.29	1.45	1.52
6	O	85	VAL	C-N	6.29	1.43	1.33
6	G	18	SER	CA-C	-6.29	1.44	1.52
3	D	222	VAL	N-CA	-6.28	1.39	1.46
3	D	431	GLU	C-N	6.28	1.41	1.33
7	H	91	PRO	C-N	6.28	1.42	1.33
2	C	614	MET	N-CA	-6.28	1.38	1.46
3	L	774	ARG	C-N	6.28	1.42	1.33
4	M	797	LEU	CA-C	-6.28	1.44	1.52
4	M	60	HIS	C-N	6.27	1.41	1.33
3	D	104	CYS	CA-C	-6.27	1.44	1.52
2	K	135	ASN	C-N	6.27	1.41	1.33
2	K	614	MET	N-CA	-6.27	1.38	1.46
6	O	756	LEU	CA-C	-6.27	1.45	1.52
3	D	654	LEU	CA-C	-6.26	1.44	1.52
5	N	45	GLU	N-CA	-6.26	1.38	1.46
3	D	711	MET	CA-C	-6.26	1.46	1.53
6	O	774	GLU	CA-C	-6.26	1.45	1.52
2	C	135	ASN	CA-C	-6.26	1.44	1.52
2	K	535	TRP	C-N	6.26	1.42	1.33
5	F	45	GLU	N-CA	-6.26	1.38	1.46
6	G	278	ILE	CA-C	-6.26	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	374	GLU	CA-C	-6.25	1.44	1.52
6	O	907	ALA	N-CA	-6.25	1.38	1.46
6	G	748	HIS	N-CA	-6.25	1.38	1.45
4	M	632	SER	C-N	6.25	1.42	1.33
2	C	535	TRP	C-N	6.24	1.42	1.33
3	D	114	ILE	N-CA	-6.24	1.38	1.46
4	E	364	ILE	N-CA	-6.24	1.38	1.46
6	O	173	ALA	N-CA	-6.24	1.37	1.46
3	L	104	CYS	CA-C	-6.24	1.44	1.52
3	L	255	ILE	N-CA	-6.24	1.38	1.46
4	E	480	VAL	CA-C	-6.24	1.44	1.52
3	L	114	ILE	N-CA	-6.24	1.38	1.46
4	E	60	HIS	C-N	6.24	1.41	1.33
6	G	173	ALA	N-CA	-6.24	1.37	1.46
4	M	364	ILE	N-CA	-6.24	1.38	1.46
6	G	756	LEU	CA-C	-6.23	1.45	1.52
6	G	85	VAL	C-N	6.23	1.43	1.33
3	L	80	GLN	CA-C	-6.23	1.45	1.52
2	C	124	SER	C-N	6.23	1.43	1.33
2	C	723	ALA	C-N	6.23	1.41	1.33
2	K	124	SER	C-N	6.22	1.43	1.33
5	N	98	PHE	CA-C	-6.22	1.45	1.52
7	Q	374	ILE	CA-C	-6.22	1.48	1.53
6	G	266	GLY	CA-C	-6.22	1.45	1.52
6	G	774	GLU	CA-C	-6.22	1.45	1.52
4	M	378	VAL	N-CA	-6.22	1.39	1.46
3	D	774	ARG	C-N	6.22	1.42	1.33
6	O	748	HIS	N-CA	-6.22	1.38	1.45
5	F	98	PHE	CA-C	-6.21	1.45	1.52
2	K	691	GLU	CA-C	-6.21	1.44	1.52
6	O	255	SER	C-N	6.21	1.42	1.33
4	M	520	ASP	CA-C	-6.21	1.46	1.53
5	F	30	TYR	C-N	6.21	1.42	1.33
2	C	449	GLN	C-N	6.21	1.40	1.33
7	H	108	ASP	CA-C	-6.21	1.45	1.52
4	M	480	VAL	CA-C	-6.21	1.44	1.52
3	D	414	ILE	N-CA	-6.21	1.39	1.46
2	K	135	ASN	CA-C	-6.20	1.44	1.52
2	K	672	ASN	CA-C	-6.20	1.44	1.52
7	P	108	ASP	CA-C	-6.20	1.45	1.52
3	D	376	ILE	CA-C	-6.20	1.45	1.52
4	E	378	VAL	N-CA	-6.20	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	449	GLN	C-N	6.20	1.40	1.33
4	M	863	GLU	CA-C	6.20	1.60	1.52
6	O	57	GLY	N-CA	6.19	1.53	1.45
2	C	672	ASN	CA-C	-6.19	1.44	1.52
3	D	330	MET	CA-C	-6.19	1.45	1.52
3	D	80	GLN	CA-C	-6.19	1.45	1.52
6	G	36	LYS	CA-C	-6.19	1.44	1.52
3	D	255	ILE	N-CA	-6.18	1.39	1.46
6	G	57	GLY	N-CA	6.18	1.53	1.45
4	E	114	THR	C-N	6.18	1.39	1.33
3	L	414	ILE	N-CA	-6.18	1.39	1.46
5	N	30	TYR	C-N	6.18	1.41	1.33
6	G	903	CYS	CA-C	-6.17	1.45	1.52
2	K	723	ALA	C-N	6.17	1.41	1.33
3	L	376	ILE	CA-C	-6.16	1.45	1.52
6	O	36	LYS	CA-C	-6.16	1.44	1.52
6	O	535	LYS	CA-C	-6.16	1.44	1.52
6	O	903	CYS	CA-C	-6.16	1.45	1.52
3	L	391	ALA	C-N	6.16	1.42	1.33
4	M	114	THR	C-N	6.16	1.39	1.33
3	D	520	ILE	CA-C	-6.15	1.44	1.52
3	D	391	ALA	C-N	6.15	1.42	1.33
6	G	962	SER	N-CA	-6.15	1.38	1.46
2	C	378	LEU	N-CA	-6.14	1.38	1.46
6	G	907	ALA	N-CA	-6.14	1.38	1.46
4	M	783	PHE	C-N	6.14	1.41	1.33
2	K	286	THR	N-CA	-6.14	1.38	1.46
6	O	266	GLY	CA-C	-6.14	1.45	1.52
4	E	280	CYS	N-CA	-6.14	1.38	1.46
6	G	535	LYS	CA-C	-6.14	1.44	1.52
7	P	374	ILE	CA-C	-6.14	1.48	1.53
2	K	378	LEU	N-CA	-6.13	1.38	1.46
3	L	441	VAL	C-O	6.13	1.30	1.24
6	G	255	SER	C-N	6.13	1.42	1.33
2	C	691	GLU	CA-C	-6.12	1.44	1.52
3	L	542	ARG	CA-C	-6.12	1.45	1.52
4	E	86	ARG	C-N	6.12	1.42	1.33
3	L	622	ALA	N-CA	-6.12	1.39	1.46
2	C	286	THR	N-CA	-6.11	1.38	1.46
3	L	330	MET	CA-C	-6.11	1.45	1.52
4	E	290	SER	N-CA	-6.11	1.37	1.45
6	O	962	SER	N-CA	-6.11	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	280	CYS	N-CA	-6.11	1.38	1.46
3	D	542	ARG	CA-C	-6.10	1.45	1.52
6	O	403	PRO	C-N	6.10	1.41	1.34
6	O	575	LYS	CA-C	-6.10	1.46	1.53
4	M	841	LEU	CA-C	-6.09	1.45	1.52
2	C	274	ARG	CA-C	-6.09	1.45	1.52
4	E	520	ASP	CA-C	-6.09	1.46	1.53
4	M	341	ALA	CA-C	-6.09	1.44	1.52
6	G	575	LYS	CA-C	-6.09	1.46	1.53
3	L	520	ILE	CA-C	-6.09	1.45	1.52
4	M	86	ARG	C-N	6.09	1.42	1.33
2	K	605	ASN	C-N	6.08	1.41	1.33
6	G	417	ALA	CA-C	-6.08	1.44	1.52
3	D	441	VAL	C-O	6.08	1.30	1.24
2	K	274	ARG	CA-C	-6.08	1.45	1.52
2	K	84	ARG	N-CA	-6.08	1.38	1.45
3	D	440	GLY	CA-C	-6.08	1.47	1.52
5	N	16	ILE	CA-C	-6.08	1.45	1.52
6	O	417	ALA	CA-C	-6.08	1.44	1.52
4	E	82	PRO	N-CA	-6.07	1.39	1.47
6	O	766	ASP	CA-C	-6.07	1.45	1.53
2	C	784	THR	C-N	6.07	1.40	1.33
6	G	403	PRO	C-N	6.07	1.41	1.34
4	M	319	PRO	C-N	6.07	1.41	1.33
2	C	605	ASN	C-N	6.06	1.41	1.33
3	D	622	ALA	N-CA	-6.06	1.39	1.46
2	K	784	THR	C-N	6.06	1.40	1.33
2	C	487	LYS	CA-C	-6.05	1.45	1.52
4	E	319	PRO	C-N	6.05	1.41	1.33
2	K	49	GLU	C-N	6.05	1.41	1.33
3	L	124	LYS	CA-C	-6.05	1.45	1.52
6	O	374	GLU	CA-C	6.05	1.60	1.52
4	M	384	SER	C-N	-6.05	1.25	1.33
4	E	341	ALA	CA-C	-6.05	1.45	1.52
2	C	485	SER	CA-C	-6.05	1.45	1.52
2	K	701	ASP	CA-C	6.04	1.60	1.52
4	E	382	ALA	CA-C	-6.04	1.45	1.52
4	E	384	SER	C-N	-6.04	1.25	1.33
3	D	724	LYS	N-CA	-6.04	1.38	1.46
2	K	487	LYS	CA-C	-6.04	1.45	1.52
2	C	84	ARG	N-CA	-6.03	1.38	1.45
4	M	82	PRO	N-CA	-6.03	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	701	ASP	CA-C	6.03	1.60	1.52
2	K	132	THR	CA-C	-6.03	1.45	1.52
2	K	183	GLY	N-CA	6.03	1.52	1.45
2	K	485	SER	CA-C	-6.03	1.45	1.52
4	M	382	ALA	CA-C	-6.03	1.45	1.52
4	M	278	PRO	N-CA	-6.03	1.39	1.47
3	L	308	MET	N-CA	-6.03	1.38	1.46
4	M	290	SER	N-CA	-6.03	1.37	1.45
3	D	613	ILE	CA-C	-6.02	1.46	1.52
7	H	98	GLU	C-N	6.02	1.41	1.33
6	G	374	GLU	CA-C	6.02	1.60	1.52
5	F	16	ILE	CA-C	-6.02	1.45	1.52
2	K	614	MET	C-N	6.02	1.41	1.33
6	G	744	GLU	N-CA	-6.02	1.38	1.45
3	L	613	ILE	CA-C	-6.01	1.46	1.52
7	H	374	ILE	CA-C	-6.01	1.48	1.53
6	O	251	ASN	C-N	6.01	1.41	1.33
6	G	358	ILE	CA-C	-6.01	1.45	1.52
2	K	689	ILE	C-N	6.01	1.41	1.33
4	E	163	SER	C-N	6.01	1.42	1.33
3	D	124	LYS	CA-C	-6.00	1.45	1.52
3	D	308	MET	N-CA	-6.00	1.38	1.46
2	C	183	GLY	N-CA	6.00	1.52	1.45
6	G	251	ASN	C-N	6.00	1.41	1.33
2	K	6	GLU	N-CA	-6.00	1.38	1.46
6	O	358	ILE	CA-C	-6.00	1.45	1.52
2	C	49	GLU	C-N	6.00	1.41	1.33
2	C	358	ARG	C-N	6.00	1.42	1.33
4	M	91	THR	C-N	6.00	1.41	1.33
4	M	326	ASN	CA-C	-6.00	1.45	1.52
2	C	689	ILE	C-N	5.99	1.41	1.33
6	G	214	ASP	N-CA	-5.99	1.39	1.46
3	L	724	LYS	N-CA	-5.99	1.38	1.46
3	L	178	ASN	C-N	5.99	1.40	1.33
4	E	228	ALA	CA-C	-5.99	1.45	1.52
3	D	178	ASN	C-N	5.98	1.40	1.33
3	L	440	GLY	CA-C	-5.98	1.48	1.52
6	O	214	ASP	N-CA	-5.98	1.39	1.46
2	C	132	THR	CA-C	-5.98	1.45	1.52
6	O	857	GLN	CA-C	-5.98	1.45	1.52
3	D	741	CYS	C-O	-5.97	1.17	1.24
5	F	98	PHE	N-CA	-5.97	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	741	CYS	C-O	-5.97	1.17	1.24
7	P	98	GLU	C-N	5.97	1.41	1.33
5	F	57	SER	CA-C	-5.97	1.45	1.52
6	G	766	ASP	CA-C	-5.96	1.45	1.53
3	L	405	ILE	N-CA	-5.96	1.39	1.46
4	M	50	LYS	C-N	5.96	1.41	1.33
4	M	163	SER	C-N	5.96	1.42	1.33
2	C	97	ARG	CA-C	-5.96	1.45	1.52
5	N	133	VAL	CA-C	-5.96	1.45	1.52
4	E	278	PRO	N-CA	-5.96	1.39	1.47
4	M	840	ILE	N-CA	-5.96	1.39	1.46
4	M	856	VAL	N-CA	-5.96	1.39	1.46
3	L	430	ALA	CA-C	-5.96	1.45	1.52
6	O	744	GLU	N-CA	-5.96	1.38	1.45
2	K	281	ARG	C-N	5.95	1.40	1.33
2	K	358	ARG	C-N	5.95	1.42	1.33
5	N	98	PHE	N-CA	-5.95	1.39	1.46
3	D	448	ALA	CA-C	-5.95	1.45	1.52
4	E	556	PRO	CA-C	5.95	1.60	1.52
4	M	228	ALA	CA-C	-5.95	1.45	1.52
3	D	397	ALA	CA-C	-5.94	1.44	1.52
2	C	6	GLU	N-CA	-5.94	1.38	1.46
3	D	405	ILE	N-CA	-5.93	1.39	1.46
4	E	326	ASN	CA-C	-5.93	1.45	1.52
3	L	397	ALA	CA-C	-5.93	1.44	1.52
6	G	547	LEU	CA-C	-5.93	1.44	1.52
4	M	825	THR	CA-C	-5.93	1.45	1.52
2	K	97	ARG	CA-C	-5.93	1.45	1.52
4	E	61	LEU	C-N	5.92	1.37	1.33
3	L	168	LYS	N-CA	-5.92	1.38	1.46
3	L	254	ARG	CA-C	-5.92	1.45	1.52
6	O	160	TYR	C-N	5.92	1.42	1.34
2	C	614	MET	C-N	5.92	1.41	1.33
3	D	254	ARG	CA-C	-5.92	1.45	1.52
4	M	556	PRO	CA-C	5.92	1.60	1.52
4	E	455	ILE	C-O	-5.92	1.17	1.24
4	M	119	ASN	N-CA	5.92	1.53	1.46
4	E	78	GLN	C-N	5.92	1.41	1.33
2	C	561	ILE	C-N	-5.91	1.26	1.33
5	N	69	TYR	CA-C	5.91	1.59	1.52
3	L	448	ALA	CA-C	-5.91	1.45	1.52
4	E	91	THR	C-N	5.90	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	109	LEU	CA-C	-5.90	1.45	1.52
5	N	57	SER	CA-C	-5.90	1.45	1.52
2	C	281	ARG	C-N	5.90	1.40	1.33
2	C	641	PHE	CA-C	-5.90	1.45	1.52
5	F	120	GLY	CA-C	-5.90	1.45	1.52
6	G	53	GLU	CA-C	-5.90	1.45	1.52
2	C	663	GLU	CA-C	-5.90	1.45	1.52
5	F	69	TYR	CA-C	5.89	1.59	1.52
3	D	430	ALA	CA-C	-5.89	1.45	1.52
2	K	389	SER	CA-C	-5.89	1.48	1.53
2	K	735	ASN	N-CA	-5.89	1.39	1.46
6	G	857	GLN	CA-C	-5.89	1.45	1.52
5	F	133	VAL	CA-C	-5.89	1.45	1.52
4	E	119	ASN	N-CA	5.89	1.53	1.46
4	M	665	CYS	C-N	5.88	1.42	1.33
3	L	752	PRO	CA-C	-5.88	1.43	1.52
6	O	547	LEU	CA-C	-5.88	1.44	1.52
3	D	168	LYS	N-CA	-5.88	1.38	1.46
6	O	905	PHE	CA-C	-5.88	1.45	1.52
2	C	389	SER	CA-C	-5.88	1.48	1.53
6	O	53	GLU	CA-C	-5.88	1.45	1.52
6	G	501	LYS	C-N	-5.88	1.27	1.34
2	K	663	GLU	CA-C	-5.87	1.45	1.52
3	L	145	VAL	CA-C	-5.87	1.47	1.53
4	M	455	ILE	C-O	-5.87	1.17	1.24
3	D	752	PRO	CA-C	-5.87	1.43	1.52
6	G	910	LEU	CA-C	-5.87	1.45	1.52
4	E	50	LYS	C-N	5.87	1.41	1.33
4	E	500	ALA	N-CA	-5.87	1.39	1.46
4	M	500	ALA	N-CA	-5.87	1.39	1.46
4	M	78	GLN	C-N	5.86	1.41	1.33
6	G	140	ILE	CA-C	5.86	1.59	1.52
5	N	120	GLY	CA-C	-5.86	1.45	1.52
6	G	160	TYR	C-N	5.86	1.41	1.34
3	D	439	LEU	CA-C	-5.86	1.45	1.52
5	F	24	ASP	C-N	5.85	1.41	1.33
2	K	109	LEU	CA-C	-5.85	1.45	1.52
3	L	262	ARG	N-CA	-5.85	1.38	1.46
3	L	439	LEU	CA-C	-5.85	1.45	1.52
2	K	496	TRP	CA-C	-5.85	1.45	1.52
2	K	561	ILE	C-N	-5.85	1.26	1.33
2	C	333	LEU	CA-C	-5.85	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	199	HIS	CA-C	-5.84	1.45	1.52
2	K	641	PHE	CA-C	-5.84	1.45	1.52
6	G	537	GLU	C-N	5.84	1.37	1.33
2	C	735	ASN	N-CA	-5.84	1.39	1.46
3	D	262	ARG	N-CA	-5.84	1.39	1.46
4	M	213	LYS	C-N	5.83	1.41	1.33
2	K	70	GLY	CA-C	-5.83	1.46	1.52
6	O	140	ILE	CA-C	5.83	1.58	1.52
6	O	501	LYS	C-N	-5.83	1.27	1.34
6	O	910	LEU	CA-C	-5.83	1.45	1.52
6	O	556	SER	CA-C	-5.82	1.45	1.52
3	D	108	HIS	CA-C	-5.82	1.45	1.52
6	G	905	PHE	CA-C	-5.82	1.45	1.52
4	M	61	LEU	C-N	5.82	1.37	1.33
4	M	431	SER	C-O	-5.82	1.17	1.24
4	M	494	ALA	CA-C	-5.82	1.45	1.52
7	P	103	SER	C-N	5.82	1.42	1.34
3	D	630	PHE	CA-C	-5.82	1.45	1.52
3	L	108	HIS	CA-C	-5.82	1.45	1.52
4	E	57	GLN	N-CA	-5.82	1.38	1.46
3	L	596	THR	C-O	-5.82	1.17	1.24
2	C	396	ILE	CA-C	-5.81	1.47	1.52
2	C	496	TRP	CA-C	-5.81	1.45	1.52
3	L	635	LEU	C-N	5.81	1.41	1.33
2	C	647	THR	CA-C	-5.81	1.45	1.52
4	E	213	LYS	C-N	5.81	1.41	1.33
4	E	411	PHE	N-CA	-5.81	1.39	1.46
6	O	199	HIS	CA-C	-5.81	1.45	1.52
4	E	431	SER	C-O	-5.81	1.17	1.24
2	K	333	LEU	CA-C	-5.81	1.45	1.52
4	E	494	ALA	CA-C	-5.80	1.45	1.52
2	K	647	THR	CA-C	-5.80	1.45	1.52
4	M	242	GLU	N-CA	-5.80	1.39	1.46
2	C	80	TYR	C-N	5.80	1.42	1.33
3	D	145	VAL	CA-C	-5.80	1.47	1.53
7	H	95	ARG	CA-C	-5.80	1.48	1.53
3	L	413	LYS	CA-C	-5.80	1.46	1.52
5	N	24	ASP	C-N	5.80	1.41	1.33
4	E	242	GLU	N-CA	-5.80	1.39	1.46
6	O	218	THR	CA-C	5.79	1.60	1.52
3	D	600	ARG	N-CA	-5.79	1.38	1.46
3	L	55	VAL	N-CA	-5.79	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	H	103	SER	C-N	5.78	1.42	1.34
2	K	396	ILE	CA-C	-5.78	1.47	1.52
6	O	477	THR	C-N	5.78	1.41	1.33
4	M	57	GLN	N-CA	-5.78	1.39	1.46
2	K	215	PRO	CA-C	-5.77	1.44	1.52
3	L	600	ARG	N-CA	-5.77	1.38	1.46
2	C	507	ALA	CA-C	5.77	1.60	1.52
3	D	413	LYS	CA-C	-5.77	1.46	1.52
6	O	540	PRO	C-O	-5.77	1.18	1.24
3	D	596	THR	C-O	-5.76	1.17	1.24
6	O	864	TRP	CA-C	-5.76	1.44	1.52
3	D	297	VAL	C-N	5.76	1.41	1.33
6	O	537	GLU	C-N	5.76	1.37	1.33
2	C	267	ASN	CA-C	-5.76	1.45	1.52
3	L	139	GLU	C-O	-5.76	1.17	1.24
4	M	610	GLN	CA-C	-5.76	1.45	1.52
2	K	401	ASP	CA-C	-5.76	1.45	1.52
2	K	603	LEU	C-N	5.76	1.41	1.33
3	L	630	PHE	CA-C	-5.76	1.45	1.52
4	M	411	PHE	N-CA	-5.76	1.39	1.46
2	C	215	PRO	CA-C	-5.75	1.44	1.52
2	C	596	GLU	N-CA	-5.75	1.39	1.46
2	C	672	ASN	C-O	-5.75	1.17	1.24
5	F	26	LEU	C-N	5.75	1.41	1.33
3	L	362	PRO	N-CA	-5.75	1.40	1.47
5	N	26	LEU	C-N	5.75	1.41	1.33
3	L	737	LYS	N-CA	-5.75	1.39	1.45
6	G	333	ASP	C-N	5.75	1.41	1.33
6	G	477	THR	C-N	5.75	1.41	1.33
6	G	218	THR	CA-C	5.75	1.60	1.52
3	D	635	LEU	C-N	5.74	1.41	1.33
4	M	618	ALA	CA-C	-5.74	1.44	1.52
7	P	95	ARG	CA-C	-5.74	1.48	1.53
2	K	267	ASN	CA-C	-5.74	1.45	1.52
3	L	371	GLY	CA-C	-5.74	1.43	1.51
4	M	691	SER	CA-C	-5.74	1.45	1.52
3	D	362	PRO	N-CA	-5.74	1.40	1.47
3	D	371	GLY	CA-C	-5.74	1.43	1.51
6	O	369	ASN	CA-C	-5.74	1.45	1.52
2	K	507	ALA	CA-C	5.73	1.60	1.52
2	K	672	ASN	C-O	-5.73	1.17	1.24
3	L	297	VAL	C-N	5.73	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	55	VAL	N-CA	-5.72	1.39	1.46
3	D	595	GLN	N-CA	-5.72	1.39	1.46
3	D	677	ALA	C-O	-5.72	1.17	1.24
2	K	80	TYR	C-N	5.72	1.42	1.33
2	C	603	LEU	C-N	5.72	1.41	1.33
6	O	936	ALA	CA-C	-5.72	1.46	1.53
3	L	595	GLN	N-CA	-5.72	1.39	1.46
2	C	23	TRP	C-N	5.72	1.41	1.33
6	G	864	TRP	CA-C	-5.72	1.44	1.52
3	L	677	ALA	C-O	-5.72	1.17	1.24
3	D	139	GLU	C-O	-5.72	1.17	1.24
2	C	70	GLY	CA-C	-5.71	1.46	1.52
2	K	64	PRO	C-N	5.71	1.40	1.33
2	K	192	THR	C-N	5.71	1.41	1.33
3	L	160	SER	CA-C	-5.71	1.45	1.52
6	O	324	ASP	N-CA	-5.71	1.39	1.46
3	D	286	VAL	C-O	-5.71	1.18	1.23
6	G	132	LEU	CA-C	-5.71	1.45	1.52
6	O	333	ASP	C-N	5.71	1.41	1.33
4	M	482	LEU	CA-C	-5.71	1.45	1.52
3	D	203	ILE	N-CA	-5.70	1.39	1.46
2	C	64	PRO	C-N	5.70	1.40	1.33
6	G	838	HIS	C-N	5.70	1.41	1.33
2	K	23	TRP	C-N	5.70	1.41	1.33
2	K	64	PRO	CA-C	-5.70	1.44	1.52
3	L	448	ALA	N-CA	-5.70	1.39	1.46
6	G	839	ILE	CA-C	-5.70	1.45	1.52
3	L	84	PHE	N-CA	-5.70	1.38	1.45
3	D	225	LEU	CA-C	-5.69	1.46	1.52
6	G	936	ALA	CA-C	-5.69	1.46	1.53
3	D	160	SER	CA-C	-5.69	1.45	1.52
3	D	294	SER	CA-C	-5.69	1.45	1.52
3	D	136	GLN	N-CA	-5.69	1.38	1.45
6	G	369	ASN	CA-C	-5.69	1.45	1.52
3	L	294	SER	CA-C	-5.69	1.45	1.52
5	N	36	PRO	C-N	5.69	1.41	1.33
3	D	737	LYS	N-CA	-5.69	1.39	1.45
2	C	401	ASP	CA-C	-5.68	1.45	1.52
4	M	765	GLN	N-CA	-5.68	1.39	1.46
6	O	132	LEU	CA-C	-5.68	1.45	1.52
6	O	324	ASP	C-N	5.68	1.41	1.33
4	M	821	GLU	CA-C	-5.68	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	101	TYR	N-CA	-5.68	1.38	1.45
2	C	614	MET	CA-C	-5.68	1.45	1.52
6	G	540	PRO	C-O	-5.68	1.18	1.24
2	K	445	THR	N-CA	-5.68	1.39	1.46
3	L	286	VAL	C-O	-5.68	1.18	1.23
2	C	64	PRO	CA-C	-5.67	1.44	1.52
3	D	448	ALA	N-CA	-5.67	1.39	1.46
4	E	482	LEU	CA-C	-5.67	1.45	1.52
2	K	614	MET	CA-C	-5.67	1.45	1.52
3	L	136	GLN	N-CA	-5.67	1.38	1.45
4	E	471	LYS	CA-C	-5.67	1.45	1.52
3	L	225	LEU	CA-C	-5.67	1.46	1.52
4	M	725	SER	C-N	5.67	1.41	1.33
2	K	596	GLU	N-CA	-5.67	1.39	1.46
4	E	491	ALA	CA-C	-5.66	1.45	1.52
6	G	556	SER	CA-C	-5.66	1.45	1.52
4	M	471	LYS	CA-C	-5.66	1.45	1.52
2	C	315	ILE	C-N	5.66	1.40	1.33
2	C	192	THR	C-N	5.66	1.41	1.33
6	O	843	ASP	CA-C	-5.66	1.45	1.52
6	G	324	ASP	C-N	5.66	1.41	1.33
4	M	491	ALA	CA-C	-5.66	1.45	1.52
6	O	838	HIS	C-N	5.66	1.41	1.33
3	D	84	PHE	N-CA	-5.65	1.38	1.45
2	K	781	GLU	CA-C	-5.65	1.45	1.52
6	G	843	ASP	CA-C	-5.65	1.45	1.52
3	D	101	TYR	N-CA	-5.65	1.38	1.45
5	F	36	PRO	C-N	5.65	1.41	1.33
6	G	245	PHE	C-N	5.65	1.40	1.33
2	K	88	THR	CA-C	-5.64	1.45	1.52
3	D	547	VAL	N-CA	-5.64	1.39	1.46
3	L	547	VAL	N-CA	-5.64	1.39	1.46
3	L	756	PHE	N-CA	-5.63	1.39	1.46
6	G	849	THR	N-CA	-5.63	1.38	1.45
6	G	324	ASP	N-CA	-5.63	1.39	1.46
4	M	744	GLU	C-N	5.63	1.41	1.33
7	H	56	TYR	N-CA	-5.62	1.39	1.46
4	M	432	LYS	CA-C	-5.62	1.45	1.52
4	M	96	SER	C-N	5.62	1.42	1.33
6	O	399	ALA	N-CA	-5.62	1.39	1.46
2	C	230	LYS	N-CA	-5.62	1.39	1.46
5	F	74	ASP	N-CA	-5.62	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	315	ILE	C-N	5.62	1.40	1.33
6	O	839	ILE	CA-C	-5.62	1.45	1.52
3	L	312	GLY	C-N	5.62	1.41	1.33
4	M	672	GLN	CA-C	-5.62	1.46	1.52
6	G	281	ALA	C-N	5.61	1.41	1.33
2	C	40	MET	N-CA	5.61	1.53	1.46
3	D	756	PHE	N-CA	-5.61	1.39	1.46
3	L	203	ILE	N-CA	-5.61	1.39	1.46
6	O	849	THR	N-CA	-5.61	1.38	1.45
3	D	312	GLY	C-N	5.60	1.41	1.33
6	G	73	THR	N-CA	5.60	1.53	1.46
3	L	164	ASP	C-O	-5.60	1.16	1.24
6	G	418	ALA	CA-C	-5.60	1.45	1.52
2	C	251	ASN	C-O	-5.60	1.17	1.24
4	M	717	PRO	CA-C	-5.60	1.44	1.52
3	D	466	LYS	CA-C	-5.60	1.45	1.52
5	F	30	TYR	CA-C	-5.60	1.45	1.52
5	N	74	ASP	N-CA	-5.60	1.40	1.46
2	C	88	THR	CA-C	-5.59	1.45	1.52
4	M	217	LYS	CA-C	-5.59	1.45	1.52
2	C	781	GLU	CA-C	-5.59	1.45	1.52
2	K	230	LYS	N-CA	-5.58	1.39	1.46
3	D	744	LEU	CA-C	-5.58	1.45	1.52
6	G	149	SER	C-N	5.58	1.41	1.33
4	E	432	LYS	CA-C	-5.58	1.45	1.52
4	M	199	LEU	CA-C	-5.58	1.45	1.52
6	O	282	ALA	N-CA	-5.58	1.39	1.46
6	G	80	VAL	CA-C	-5.58	1.45	1.52
2	K	735	ASN	CA-C	-5.58	1.45	1.52
7	P	56	TYR	N-CA	-5.58	1.39	1.46
2	C	600	LYS	C-N	5.58	1.41	1.33
3	L	85	ASN	C-N	5.57	1.41	1.33
3	L	437	PHE	N-CA	5.57	1.52	1.46
4	M	537	GLN	CA-C	-5.57	1.45	1.52
2	C	445	THR	N-CA	-5.57	1.39	1.46
4	E	255	ILE	C-N	5.57	1.41	1.33
2	K	251	ASN	C-O	-5.57	1.17	1.24
4	M	255	ILE	C-N	5.57	1.41	1.33
3	L	9	ARG	CA-C	-5.57	1.46	1.53
2	C	735	ASN	CA-C	-5.57	1.45	1.52
2	K	40	MET	N-CA	5.57	1.53	1.46
4	E	537	GLN	CA-C	-5.56	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	233	SER	CA-C	-5.56	1.45	1.52
4	E	96	SER	C-N	5.56	1.42	1.33
4	E	217	LYS	CA-C	-5.56	1.45	1.52
3	L	428	PHE	CA-C	-5.56	1.46	1.53
2	K	86	LEU	C-N	5.56	1.40	1.33
3	L	379	THR	C-N	5.56	1.41	1.33
2	K	600	LYS	C-N	5.56	1.41	1.33
4	M	437	SER	C-N	5.56	1.41	1.33
6	O	418	ALA	CA-C	-5.56	1.45	1.52
3	D	428	PHE	CA-C	-5.56	1.46	1.53
5	F	126	ASP	N-CA	5.56	1.53	1.46
3	L	466	LYS	CA-C	-5.56	1.45	1.52
4	M	553	VAL	C-N	5.55	1.40	1.33
5	N	30	TYR	CA-C	-5.55	1.45	1.52
4	E	199	LEU	CA-C	-5.55	1.45	1.52
6	G	399	ALA	N-CA	-5.55	1.39	1.46
2	K	529	ARG	CA-C	-5.55	1.45	1.52
3	L	632	GLN	CA-C	-5.55	1.45	1.52
3	L	744	LEU	CA-C	-5.55	1.45	1.52
4	M	830	LEU	CA-C	-5.55	1.45	1.52
4	M	855	GLN	CA-C	-5.55	1.46	1.52
3	D	85	ASN	C-N	5.55	1.41	1.33
4	M	761	ALA	CA-C	-5.55	1.45	1.52
6	O	149	SER	C-N	5.55	1.41	1.33
3	D	594	TYR	CA-C	-5.55	1.45	1.52
6	O	245	PHE	C-N	5.55	1.40	1.33
3	D	424	PHE	N-CA	-5.54	1.39	1.46
6	G	282	ALA	N-CA	-5.54	1.39	1.46
6	O	281	ALA	C-N	5.54	1.41	1.33
3	D	164	ASP	C-O	-5.54	1.16	1.24
6	G	556	SER	C-N	5.54	1.41	1.33
3	D	9	ARG	CA-C	-5.53	1.46	1.53
3	L	594	TYR	CA-C	-5.53	1.45	1.52
6	O	314	HIS	C-N	5.53	1.41	1.33
2	C	111	ALA	CA-C	-5.53	1.46	1.52
4	E	437	SER	C-N	5.53	1.41	1.33
3	L	233	SER	CA-C	-5.53	1.45	1.52
4	M	649	ARG	CA-C	-5.53	1.46	1.52
3	L	253	VAL	CA-C	-5.52	1.46	1.52
2	C	318	LYS	N-CA	-5.52	1.39	1.46
2	K	592	ILE	CA-C	-5.52	1.46	1.52
5	N	126	ASP	N-CA	5.52	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	514	CYS	CA-C	-5.52	1.45	1.52
2	C	529	ARG	CA-C	-5.52	1.45	1.52
3	D	95	PHE	CA-C	-5.51	1.45	1.52
6	O	277	ALA	N-CA	-5.51	1.39	1.46
4	E	553	VAL	C-N	5.51	1.40	1.33
5	F	88	LEU	CA-C	-5.51	1.45	1.52
4	M	546	TYR	N-CA	-5.51	1.39	1.46
2	C	592	ILE	CA-C	-5.51	1.46	1.52
2	C	670	ASP	N-CA	-5.51	1.39	1.46
6	G	314	HIS	C-N	5.51	1.41	1.33
6	O	73	THR	N-CA	5.51	1.52	1.46
6	G	277	ALA	N-CA	-5.50	1.39	1.46
3	L	424	PHE	N-CA	-5.50	1.39	1.46
6	G	162	ILE	C-N	5.50	1.41	1.33
3	L	675	GLU	CA-C	-5.50	1.45	1.52
6	O	80	VAL	CA-C	-5.50	1.45	1.52
6	O	162	ILE	C-N	5.49	1.41	1.33
7	P	87	SER	C-N	5.49	1.41	1.33
4	M	810	MET	CA-C	-5.49	1.45	1.52
4	M	829	LEU	C-N	5.49	1.41	1.33
5	N	111	LYS	N-CA	-5.49	1.39	1.46
6	O	423	PHE	C-N	5.49	1.40	1.33
3	D	632	GLN	CA-C	-5.48	1.45	1.52
2	C	474	LEU	CA-C	-5.48	1.46	1.52
3	D	253	VAL	CA-C	-5.48	1.46	1.52
7	H	87	SER	C-N	5.48	1.41	1.33
3	L	357	THR	C-N	5.48	1.40	1.33
3	D	437	PHE	N-CA	5.48	1.52	1.46
2	K	670	ASP	N-CA	-5.48	1.39	1.46
4	E	83	THR	C-N	5.47	1.41	1.33
4	M	758	VAL	N-CA	-5.47	1.40	1.46
2	C	35	LEU	CA-C	-5.47	1.46	1.52
3	D	379	THR	C-N	5.47	1.41	1.33
3	D	675	GLU	CA-C	-5.47	1.45	1.52
4	E	277	LEU	N-CA	-5.47	1.41	1.46
2	K	474	LEU	CA-C	-5.47	1.46	1.52
3	D	470	TRP	CA-C	-5.47	1.46	1.52
3	D	83	VAL	CA-C	-5.46	1.46	1.52
4	M	78	GLN	N-CA	-5.46	1.39	1.46
6	G	947	LYS	C-N	5.46	1.42	1.34
2	C	634	TYR	N-CA	-5.46	1.40	1.46
3	L	83	VAL	CA-C	-5.46	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	N	88	LEU	CA-C	-5.46	1.45	1.52
5	F	111	LYS	N-CA	-5.46	1.39	1.46
4	E	546	TYR	N-CA	-5.45	1.39	1.46
2	K	35	LEU	CA-C	-5.45	1.46	1.52
2	K	441	LYS	CA-C	-5.45	1.45	1.52
4	M	276	ASN	CA-C	5.45	1.59	1.52
6	G	97	GLU	N-CA	-5.45	1.39	1.46
3	D	357	THR	C-N	5.45	1.40	1.33
2	K	344	LEU	C-N	5.45	1.41	1.33
3	L	95	PHE	CA-C	-5.45	1.46	1.52
4	M	193	GLN	N-CA	-5.45	1.39	1.46
2	K	209	ASN	N-CA	-5.44	1.39	1.46
4	M	733	LYS	CA-C	-5.44	1.45	1.52
4	E	78	GLN	N-CA	-5.44	1.39	1.46
6	G	914	SER	C-N	5.44	1.38	1.33
6	O	947	LYS	C-N	5.44	1.42	1.34
4	M	83	THR	C-N	5.44	1.41	1.33
6	G	949	GLN	CA-C	-5.44	1.46	1.53
4	M	271	ALA	CA-C	5.44	1.59	1.52
4	M	277	LEU	N-CA	-5.44	1.41	1.46
6	O	949	GLN	CA-C	-5.44	1.46	1.53
2	K	514	CYS	CA-C	-5.43	1.46	1.52
2	C	480	LYS	C-N	5.43	1.40	1.33
3	D	200	PRO	CA-C	-5.43	1.44	1.52
4	E	193	GLN	N-CA	-5.43	1.39	1.46
2	C	164	ILE	CA-C	-5.43	1.47	1.52
2	K	164	ILE	CA-C	-5.43	1.47	1.52
7	P	22	VAL	N-CA	-5.43	1.40	1.46
6	G	41	ALA	CA-C	-5.43	1.46	1.52
4	M	669	LEU	N-CA	-5.43	1.39	1.46
2	C	86	LEU	C-N	5.42	1.40	1.33
2	K	177	VAL	CA-C	-5.42	1.44	1.52
3	D	279	SER	C-N	5.42	1.41	1.33
6	O	41	ALA	CA-C	-5.42	1.46	1.52
6	O	556	SER	C-N	5.42	1.41	1.33
2	K	367	ASN	N-CA	-5.42	1.39	1.45
3	L	4	ARG	N-CA	-5.42	1.39	1.46
2	K	634	TYR	N-CA	-5.42	1.40	1.46
4	M	148	ILE	C-N	5.42	1.40	1.34
2	K	318	LYS	N-CA	-5.42	1.39	1.46
3	L	200	PRO	CA-C	-5.42	1.44	1.52
2	C	344	LEU	C-N	5.42	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	120	ASP	C-N	5.42	1.41	1.33
3	D	605	MET	N-CA	-5.41	1.39	1.46
5	F	127	GLU	C-N	5.41	1.40	1.33
3	D	97	ALA	N-CA	-5.41	1.39	1.46
2	C	367	ASN	N-CA	-5.41	1.39	1.45
3	L	97	ALA	N-CA	-5.41	1.39	1.46
6	O	886	LYS	N-CA	-5.41	1.39	1.46
4	E	416	ALA	CA-C	-5.41	1.45	1.52
6	G	504	GLU	CA-C	-5.41	1.45	1.52
3	L	576	GLY	N-CA	5.41	1.53	1.45
6	O	856	ARG	CA-C	5.41	1.59	1.52
3	L	42	TRP	CA-C	-5.40	1.45	1.52
2	C	604	ILE	C-N	5.40	1.40	1.33
4	E	276	ASN	CA-C	5.40	1.59	1.52
6	G	856	ARG	CA-C	5.40	1.59	1.52
2	K	111	ALA	CA-C	-5.40	1.46	1.52
6	O	97	GLU	N-CA	-5.40	1.39	1.46
2	C	177	VAL	CA-C	-5.40	1.44	1.52
2	C	441	LYS	CA-C	-5.40	1.45	1.52
6	O	842	MET	C-N	5.40	1.41	1.33
6	G	886	LYS	N-CA	-5.40	1.39	1.46
2	K	41	CYS	CA-C	-5.40	1.45	1.52
4	M	801	VAL	C-N	5.40	1.41	1.33
5	F	65	LEU	CA-C	5.39	1.59	1.52
3	D	459	ARG	CA-C	-5.39	1.46	1.52
3	L	329	ALA	CA-C	-5.39	1.45	1.52
6	G	423	PHE	C-N	5.39	1.40	1.33
7	H	83	LEU	CA-C	-5.39	1.45	1.52
2	K	761	SER	N-CA	-5.39	1.40	1.46
6	O	590	ALA	N-CA	-5.39	1.39	1.46
3	D	42	TRP	CA-C	-5.39	1.45	1.52
5	N	127	GLU	C-N	5.39	1.40	1.33
2	C	465	LEU	CA-C	-5.39	1.45	1.52
2	K	465	LEU	CA-C	-5.39	1.45	1.52
3	D	4	ARG	N-CA	-5.39	1.39	1.46
3	L	279	SER	C-N	5.39	1.40	1.33
4	M	375	PHE	CA-C	-5.39	1.45	1.52
2	C	41	CYS	CA-C	-5.38	1.45	1.52
2	C	209	ASN	N-CA	-5.38	1.39	1.46
2	C	416	LEU	CA-C	-5.38	1.46	1.52
3	D	449	PHE	CA-C	-5.38	1.46	1.52
3	D	120	ASP	C-N	5.38	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	684	SER	C-N	5.38	1.41	1.33
6	G	243	ALA	C-N	5.38	1.41	1.33
3	L	307	SER	CA-C	-5.38	1.45	1.52
3	L	459	ARG	CA-C	-5.38	1.46	1.52
4	E	148	ILE	C-N	5.38	1.40	1.34
4	M	615	GLU	C-N	5.38	1.40	1.33
6	O	504	GLU	CA-C	-5.38	1.45	1.52
3	D	576	GLY	N-CA	5.37	1.53	1.45
2	K	480	LYS	C-N	5.37	1.40	1.33
5	N	65	LEU	CA-C	5.37	1.59	1.52
3	D	307	SER	CA-C	-5.37	1.45	1.52
7	H	94	CYS	CA-C	-5.37	1.45	1.52
2	K	416	LEU	CA-C	-5.37	1.46	1.52
2	K	604	ILE	C-N	5.37	1.40	1.33
6	O	368	ASN	CA-C	-5.37	1.46	1.53
3	L	375	TYR	CA-C	-5.37	1.46	1.52
3	L	421	LYS	C-N	-5.37	1.26	1.33
7	P	83	LEU	CA-C	-5.37	1.45	1.52
4	E	177	TRP	CA-C	-5.37	1.45	1.52
6	G	842	MET	C-N	5.37	1.41	1.33
6	O	56	PRO	C-N	5.36	1.41	1.33
4	E	271	ALA	CA-C	5.36	1.59	1.52
6	G	83	GLU	CA-C	-5.36	1.45	1.52
3	L	302	GLU	CA-C	-5.36	1.45	1.52
2	C	761	SER	N-CA	-5.36	1.40	1.46
7	H	22	VAL	N-CA	-5.36	1.40	1.46
3	L	567	ILE	N-CA	-5.36	1.42	1.46
3	L	605	MET	N-CA	-5.36	1.39	1.46
3	L	773	TRP	N-CA	-5.35	1.39	1.46
6	O	565	ALA	CA-C	-5.35	1.46	1.52
6	G	902	TYR	N-CA	-5.35	1.39	1.46
4	M	416	ALA	CA-C	-5.35	1.45	1.52
6	O	243	ALA	C-N	5.35	1.41	1.33
3	D	375	TYR	CA-C	-5.34	1.46	1.52
6	G	368	ASN	CA-C	-5.34	1.46	1.53
3	L	470	TRP	CA-C	-5.34	1.46	1.52
4	E	375	PHE	CA-C	-5.34	1.45	1.52
5	F	142	VAL	CA-C	-5.34	1.46	1.52
6	G	56	PRO	C-N	5.34	1.41	1.33
2	K	379	LEU	C-O	-5.34	1.17	1.24
3	D	329	ALA	CA-C	-5.34	1.45	1.52
4	E	327	LEU	C-O	-5.34	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	902	TYR	N-CA	-5.34	1.39	1.46
3	D	567	ILE	N-CA	-5.33	1.42	1.46
3	D	778	SER	C-N	5.33	1.41	1.33
2	K	262	GLU	C-N	-5.33	1.27	1.33
3	L	46	THR	N-CA	5.33	1.53	1.46
4	M	750	GLU	CA-C	-5.33	1.46	1.52
6	O	380	ARG	C-N	5.33	1.40	1.33
3	D	472	ASP	CA-C	-5.33	1.45	1.52
3	D	504	GLY	N-CA	5.33	1.53	1.45
6	G	32	LYS	CA-C	-5.33	1.45	1.52
3	L	449	PHE	CA-C	-5.33	1.46	1.52
4	M	764	ILE	CA-C	-5.32	1.46	1.52
3	L	801	LEU	CA-C	-5.32	1.46	1.53
3	D	773	TRP	N-CA	-5.32	1.39	1.46
7	P	57	VAL	CA-C	-5.32	1.46	1.52
3	D	46	THR	N-CA	5.32	1.53	1.46
3	D	421	LYS	C-N	-5.32	1.26	1.33
3	L	193	TYR	CA-C	-5.32	1.46	1.52
3	L	504	GLY	N-CA	5.32	1.53	1.45
6	O	83	GLU	CA-C	-5.32	1.45	1.52
4	E	168	LYS	CA-C	-5.32	1.46	1.52
2	K	680	VAL	C-N	5.31	1.40	1.33
4	M	441	GLU	N-CA	5.31	1.53	1.46
4	M	456	LEU	C-N	-5.31	1.27	1.33
3	L	684	SER	C-N	5.31	1.41	1.33
4	M	168	LYS	CA-C	-5.31	1.46	1.52
4	M	177	TRP	CA-C	-5.31	1.45	1.52
5	N	142	VAL	CA-C	-5.31	1.46	1.52
6	G	565	ALA	CA-C	-5.30	1.46	1.52
3	L	778	SER	C-N	5.30	1.40	1.33
4	E	441	GLU	N-CA	5.30	1.53	1.46
2	C	206	ARG	CA-C	5.30	1.59	1.53
6	G	590	ALA	N-CA	-5.30	1.39	1.46
2	K	206	ARG	CA-C	5.30	1.59	1.53
2	K	245	CYS	N-CA	-5.30	1.39	1.46
7	P	15	ALA	CA-C	-5.30	1.46	1.52
7	H	15	ALA	CA-C	-5.30	1.46	1.52
3	L	311	ASN	N-CA	5.30	1.53	1.46
3	D	801	LEU	CA-C	-5.29	1.46	1.53
2	C	337	LYS	C-N	5.29	1.40	1.33
6	G	380	ARG	C-N	5.29	1.40	1.33
2	C	245	CYS	N-CA	-5.29	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	764	THR	N-CA	-5.29	1.39	1.45
2	K	589	VAL	N-CA	-5.29	1.40	1.46
2	K	337	LYS	C-N	5.29	1.40	1.33
6	G	887	SER	C-N	5.28	1.39	1.33
2	C	680	VAL	C-N	5.28	1.40	1.33
6	G	831	CYS	CA-C	5.28	1.58	1.52
6	O	497	ALA	CA-C	-5.28	1.46	1.52
2	C	262	GLU	C-N	-5.28	1.27	1.33
3	D	193	TYR	CA-C	-5.28	1.46	1.52
7	H	57	VAL	CA-C	-5.28	1.46	1.52
6	O	831	CYS	CA-C	5.28	1.58	1.52
7	P	94	CYS	CA-C	-5.28	1.45	1.52
6	O	32	LYS	CA-C	-5.27	1.45	1.52
6	G	939	THR	CA-C	-5.27	1.45	1.52
2	K	59	PHE	CA-C	-5.27	1.46	1.52
3	L	155	ASN	CA-C	5.27	1.60	1.52
4	E	568	GLU	CA-C	5.27	1.58	1.52
6	G	393	ARG	N-CA	-5.27	1.40	1.46
2	K	170	LYS	CA-C	-5.27	1.46	1.52
4	M	327	LEU	C-O	-5.27	1.18	1.24
3	D	458	ILE	CA-C	-5.26	1.46	1.52
4	M	698	LEU	C-O	-5.26	1.18	1.24
6	O	939	THR	CA-C	-5.26	1.45	1.52
2	C	333	LEU	N-CA	-5.26	1.39	1.46
2	K	580	CYS	C-N	5.26	1.40	1.33
4	M	213	LYS	CA-C	-5.26	1.46	1.52
4	M	638	ALA	C-N	5.26	1.41	1.33
4	M	831	ALA	N-CA	-5.26	1.39	1.45
5	N	79	VAL	N-CA	-5.26	1.40	1.46
2	C	379	LEU	C-O	-5.26	1.18	1.24
6	G	183	ASN	N-CA	5.26	1.52	1.46
6	G	753	ASP	CA-C	-5.25	1.46	1.52
2	C	278	MET	C-N	5.25	1.41	1.33
6	O	764	THR	N-CA	-5.25	1.39	1.45
6	O	887	SER	C-N	5.25	1.39	1.33
2	K	54	VAL	N-CA	-5.25	1.39	1.46
4	M	646	TYR	C-N	5.25	1.40	1.33
6	G	758	VAL	N-CA	-5.25	1.40	1.46
4	E	421	ILE	CA-C	-5.25	1.46	1.52
2	C	589	VAL	N-CA	-5.25	1.40	1.46
2	K	419	VAL	C-O	-5.25	1.18	1.23
6	O	183	ASN	N-CA	5.25	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	311	ASN	N-CA	5.24	1.52	1.46
6	G	141	ARG	N-CA	-5.24	1.39	1.46
2	C	419	VAL	C-O	-5.24	1.18	1.23
3	L	472	ASP	CA-C	-5.24	1.45	1.52
4	E	213	LYS	CA-C	-5.24	1.46	1.52
4	M	453	THR	C-N	5.24	1.40	1.33
4	M	790	THR	CA-C	-5.24	1.46	1.52
3	D	155	ASN	CA-C	5.24	1.60	1.52
3	D	756	PHE	CA-C	-5.24	1.46	1.52
2	K	278	MET	C-N	5.24	1.41	1.33
4	M	643	GLU	C-N	5.24	1.41	1.33
6	O	68	PRO	CA-C	-5.24	1.45	1.52
5	N	55	THR	CA-C	-5.24	1.45	1.52
6	O	465	TYR	N-CA	-5.24	1.38	1.46
3	D	556	HIS	C-N	5.23	1.40	1.33
2	C	54	VAL	N-CA	-5.23	1.39	1.46
2	K	333	LEU	N-CA	-5.23	1.39	1.46
5	F	79	VAL	N-CA	-5.23	1.40	1.46
3	L	556	HIS	C-N	5.23	1.40	1.33
6	O	141	ARG	N-CA	-5.23	1.39	1.46
4	E	92	ILE	CA-C	-5.22	1.46	1.52
6	G	465	TYR	N-CA	-5.22	1.38	1.46
6	O	862	PHE	C-N	5.22	1.40	1.33
6	G	537	GLU	C-O	-5.22	1.17	1.24
4	M	47	ILE	CA-C	5.22	1.59	1.52
6	O	934	PRO	CA-C	-5.22	1.47	1.52
4	E	456	LEU	C-N	-5.21	1.27	1.33
6	O	537	GLU	C-O	-5.21	1.17	1.24
3	D	442	ARG	CA-C	-5.21	1.46	1.52
3	L	458	ILE	CA-C	-5.21	1.46	1.52
4	M	421	ILE	CA-C	-5.21	1.46	1.52
2	C	170	LYS	CA-C	-5.21	1.46	1.52
3	L	756	PHE	CA-C	-5.21	1.46	1.52
2	C	250	ASN	CA-C	-5.21	1.46	1.52
5	F	55	THR	CA-C	-5.21	1.45	1.52
4	M	568	GLU	CA-C	5.21	1.58	1.52
6	O	393	ARG	N-CA	-5.21	1.40	1.46
6	O	567	ARG	CA-C	-5.21	1.46	1.52
2	C	580	CYS	C-N	5.21	1.40	1.33
6	G	68	PRO	CA-C	-5.21	1.45	1.52
2	C	59	PHE	CA-C	-5.20	1.46	1.52
6	O	753	ASP	CA-C	-5.20	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	436	LEU	CA-C	-5.20	1.46	1.52
4	M	858	ALA	CA-C	-5.20	1.46	1.52
4	E	453	THR	C-N	5.20	1.40	1.33
6	O	489	VAL	C-N	5.20	1.40	1.33
3	D	556	HIS	CA-C	-5.20	1.46	1.52
6	G	489	VAL	C-N	5.20	1.40	1.33
2	K	385	ASN	C-N	5.19	1.41	1.33
6	O	535	LYS	C-O	-5.19	1.17	1.23
2	C	397	PRO	C-N	5.19	1.40	1.33
2	C	765	HIS	C-O	-5.19	1.17	1.24
2	K	755	LYS	N-CA	-5.19	1.40	1.46
3	L	314	ILE	CA-C	-5.18	1.46	1.52
6	O	758	VAL	N-CA	-5.18	1.40	1.46
4	M	92	ILE	CA-C	-5.18	1.46	1.52
7	P	68	LEU	CA-C	-5.18	1.46	1.52
3	D	302	GLU	CA-C	-5.18	1.45	1.52
3	D	383	LEU	CA-C	-5.18	1.46	1.53
6	G	862	PHE	C-N	5.18	1.40	1.33
3	L	649	LEU	N-CA	5.18	1.52	1.46
6	G	251	ASN	N-CA	-5.18	1.40	1.46
6	G	934	PRO	CA-C	-5.18	1.47	1.52
3	L	556	HIS	CA-C	-5.18	1.46	1.52
4	M	734	ASP	N-CA	-5.18	1.39	1.45
2	C	16	SER	C-N	5.17	1.40	1.33
3	L	383	LEU	CA-C	-5.17	1.46	1.53
3	L	696	TYR	N-CA	-5.17	1.40	1.46
2	K	186	GLY	N-CA	-5.17	1.37	1.45
3	L	306	MET	C-N	5.17	1.40	1.33
2	C	331	ASN	C-N	5.17	1.40	1.33
6	G	303	ASP	C-O	-5.17	1.19	1.24
6	O	845	ILE	CA-C	-5.17	1.46	1.52
3	D	528	LEU	C-N	5.17	1.40	1.33
2	K	16	SER	C-N	5.16	1.40	1.33
6	O	179	ASP	C-O	-5.16	1.17	1.23
6	G	99	ILE	C-O	-5.16	1.18	1.24
2	C	186	GLY	N-CA	-5.16	1.37	1.45
3	L	442	ARG	CA-C	-5.16	1.46	1.52
2	K	250	ASN	CA-C	-5.16	1.46	1.52
4	M	496	ALA	N-CA	-5.16	1.40	1.46
4	M	665	CYS	CA-C	-5.16	1.46	1.52
5	N	107	LYS	C-N	5.16	1.40	1.33
7	H	68	LEU	CA-C	-5.15	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	696	TYR	N-CA	-5.15	1.40	1.46
6	G	535	LYS	C-O	-5.15	1.17	1.23
6	O	99	ILE	C-O	-5.15	1.18	1.24
3	D	35	TYR	N-CA	-5.15	1.39	1.46
2	K	331	ASN	C-N	5.15	1.40	1.33
4	M	452	ALA	CA-C	-5.15	1.46	1.52
2	C	494	VAL	C-N	5.14	1.40	1.33
4	E	496	ALA	N-CA	-5.14	1.40	1.46
3	L	528	LEU	C-N	5.14	1.40	1.33
2	C	114	ASP	N-CA	-5.14	1.40	1.46
3	D	42	TRP	N-CA	-5.14	1.39	1.46
3	D	649	LEU	N-CA	5.14	1.52	1.46
3	L	512	ASP	CA-C	5.14	1.58	1.52
6	G	179	ASP	C-O	-5.14	1.17	1.23
2	K	114	ASP	N-CA	-5.14	1.40	1.46
2	C	301	PRO	C-O	-5.14	1.17	1.24
4	E	47	ILE	CA-C	5.14	1.59	1.52
6	O	316	ARG	C-N	5.14	1.40	1.33
4	M	657	ASP	N-CA	-5.13	1.39	1.46
4	M	705	THR	CA-C	-5.13	1.46	1.52
4	M	785	LYS	C-N	5.13	1.41	1.33
3	D	325	ALA	CA-C	-5.13	1.46	1.52
6	O	303	ASP	C-O	-5.13	1.19	1.24
6	G	497	ALA	CA-C	-5.13	1.46	1.52
6	G	567	ARG	CA-C	-5.13	1.46	1.52
2	C	787	ASP	C-N	5.12	1.40	1.33
6	O	477	THR	CA-C	-5.12	1.45	1.52
3	L	35	TYR	N-CA	-5.12	1.39	1.46
3	D	373	GLY	N-CA	-5.12	1.37	1.45
4	E	452	ALA	CA-C	-5.12	1.46	1.52
6	G	186	ASP	CA-C	-5.12	1.45	1.52
4	M	436	LEU	CA-C	-5.12	1.46	1.52
3	D	787	SER	CA-C	-5.12	1.46	1.52
6	G	316	ARG	C-N	5.12	1.40	1.33
4	M	292	LEU	C-N	5.12	1.40	1.33
4	M	712	LEU	C-N	5.12	1.39	1.33
3	D	314	ILE	CA-C	-5.11	1.46	1.52
6	G	341	LEU	C-N	5.11	1.40	1.33
4	M	46	HIS	C-O	-5.11	1.18	1.24
6	G	845	ILE	CA-C	-5.11	1.46	1.52
2	K	397	PRO	C-N	5.11	1.40	1.33
6	O	341	LEU	C-N	5.11	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	144	HIS	C-N	-5.11	1.27	1.33
3	D	211	VAL	C-N	5.11	1.40	1.33
4	E	525	ARG	N-CA	-5.11	1.40	1.46
3	L	269	TYR	C-N	5.11	1.40	1.33
5	F	132	GLY	N-CA	-5.11	1.38	1.45
3	D	306	MET	C-N	5.11	1.40	1.33
6	G	746	TYR	C-N	5.11	1.40	1.33
3	L	373	GLY	N-CA	-5.11	1.37	1.45
4	M	560	LYS	C-N	5.11	1.40	1.33
6	O	251	ASN	N-CA	-5.11	1.40	1.46
2	K	633	GLY	C-N	5.10	1.41	1.34
4	M	525	ARG	N-CA	-5.10	1.40	1.46
2	C	755	LYS	N-CA	-5.10	1.40	1.46
2	K	144	HIS	C-N	-5.10	1.27	1.33
4	M	823	LYS	CA-C	-5.10	1.46	1.52
6	O	271	LEU	C-N	5.10	1.39	1.33
4	E	292	LEU	C-N	5.10	1.40	1.33
2	K	765	HIS	C-O	-5.10	1.17	1.24
5	N	130	ASP	C-N	5.10	1.39	1.33
4	E	465	LYS	N-CA	-5.10	1.38	1.45
6	G	477	THR	CA-C	-5.10	1.45	1.52
3	L	648	ALA	C-N	5.09	1.40	1.33
2	K	787	ASP	C-N	5.09	1.40	1.33
6	O	490	GLU	CA-C	-5.09	1.46	1.52
7	P	111	PHE	C-N	5.09	1.40	1.33
2	C	633	GLY	C-N	5.09	1.41	1.34
3	L	42	TRP	N-CA	-5.09	1.39	1.46
3	D	648	ALA	C-N	5.09	1.40	1.33
4	E	46	HIS	C-O	-5.09	1.18	1.24
2	C	385	ASN	C-N	5.09	1.40	1.33
2	C	673	CYS	C-O	-5.09	1.18	1.24
2	K	702	LYS	N-CA	5.09	1.52	1.46
6	O	746	TYR	C-N	5.09	1.40	1.33
5	F	107	LYS	C-N	5.08	1.40	1.33
6	G	101	VAL	CA-C	-5.08	1.46	1.53
6	G	912	ALA	N-CA	-5.08	1.40	1.46
3	L	787	SER	CA-C	-5.08	1.46	1.52
4	M	725	SER	CA-C	-5.08	1.46	1.52
2	K	529	ARG	C-N	5.08	1.44	1.33
3	D	781	ASN	C-O	-5.08	1.17	1.24
4	E	560	LYS	C-N	5.08	1.40	1.33
4	M	515	ARG	CA-C	-5.08	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	512	ASP	CA-C	5.08	1.58	1.52
6	G	925	SER	C-O	-5.08	1.17	1.24
3	L	325	ALA	CA-C	-5.08	1.46	1.52
7	H	111	PHE	C-N	5.07	1.40	1.33
4	M	850	ASP	CA-C	-5.07	1.45	1.52
3	L	729	PHE	C-N	5.07	1.40	1.33
4	M	465	LYS	N-CA	-5.07	1.38	1.45
5	N	132	GLY	N-CA	-5.07	1.38	1.45
6	O	912	ALA	N-CA	-5.07	1.40	1.46
2	K	301	PRO	C-O	-5.07	1.17	1.24
4	M	499	GLY	C-N	5.07	1.40	1.33
4	E	451	LEU	N-CA	-5.07	1.40	1.46
2	K	479	GLN	CA-C	-5.07	1.46	1.52
4	M	451	LEU	N-CA	-5.07	1.40	1.46
3	L	739	ASP	C-N	5.06	1.40	1.33
5	F	130	ASP	C-N	5.06	1.39	1.33
6	G	116	ILE	N-CA	-5.06	1.40	1.46
2	K	317	PHE	N-CA	-5.06	1.39	1.45
4	E	515	ARG	CA-C	-5.06	1.46	1.52
3	D	478	CYS	CA-C	-5.06	1.46	1.52
6	G	890	MET	CA-C	-5.06	1.46	1.52
3	L	211	VAL	C-N	5.06	1.40	1.33
2	K	345	ASP	N-CA	-5.06	1.39	1.46
2	C	369	SER	CA-C	-5.05	1.46	1.52
4	M	862	GLU	CA-C	-5.05	1.46	1.52
6	O	186	ASP	CA-C	-5.05	1.46	1.52
2	C	50	HIS	CA-C	-5.05	1.46	1.52
3	D	18	VAL	N-CA	-5.05	1.40	1.46
4	E	452	ALA	N-CA	-5.05	1.40	1.46
2	C	758	ALA	CA-C	-5.05	1.46	1.52
2	C	317	PHE	N-CA	-5.05	1.39	1.45
3	D	552	VAL	N-CA	-5.05	1.40	1.46
2	C	145	PRO	C-N	5.05	1.40	1.33
2	C	529	ARG	C-N	5.05	1.43	1.33
7	H	28	ARG	C-N	5.05	1.40	1.33
2	K	369	SER	CA-C	-5.05	1.46	1.52
4	M	435	GLY	C-N	5.05	1.40	1.33
2	C	702	LYS	N-CA	5.04	1.52	1.46
3	D	461	ILE	CA-C	-5.04	1.46	1.52
3	D	739	ASP	C-N	5.04	1.40	1.33
3	L	308	MET	CA-C	-5.04	1.46	1.52
2	K	494	VAL	C-N	5.04	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	673	CYS	C-O	-5.04	1.18	1.24
7	Q	374	ILE	N-CA	-5.04	1.42	1.46
3	D	565	GLY	CA-C	-5.04	1.46	1.51
3	D	479	ILE	CA-C	-5.04	1.46	1.52
3	D	729	PHE	C-N	5.04	1.40	1.33
6	O	890	MET	CA-C	-5.04	1.46	1.52
2	C	572	ARG	N-CA	5.04	1.52	1.46
6	G	746	TYR	C-O	-5.04	1.17	1.23
2	K	572	ARG	N-CA	5.04	1.52	1.46
5	F	145	ARG	N-CA	-5.03	1.39	1.46
2	K	28	LEU	C-N	5.03	1.41	1.33
3	L	498	ALA	CA-C	-5.03	1.46	1.52
7	P	374	ILE	N-CA	-5.03	1.42	1.46
3	D	55	VAL	CA-C	-5.03	1.46	1.52
6	G	241	GLU	CA-C	-5.03	1.46	1.52
4	M	57	GLN	C-N	5.03	1.40	1.33
4	M	452	ALA	N-CA	-5.03	1.40	1.46
3	L	478	CYS	CA-C	-5.03	1.46	1.52
6	O	746	TYR	C-O	-5.03	1.17	1.23
4	E	499	GLY	C-N	5.03	1.40	1.33
6	G	271	LEU	C-N	5.03	1.39	1.33
6	G	301	VAL	C-N	5.03	1.40	1.33
3	L	186	LYS	CA-C	-5.03	1.45	1.52
3	D	725	ASN	N-CA	-5.03	1.40	1.46
4	E	57	GLN	C-N	5.03	1.40	1.33
2	K	349	SER	CA-C	-5.03	1.46	1.52
6	O	149	SER	C-O	-5.03	1.17	1.24
7	P	28	ARG	C-N	5.02	1.40	1.33
4	E	435	GLY	C-N	5.02	1.40	1.33
3	D	186	LYS	CA-C	-5.02	1.45	1.52
2	C	475	PHE	N-CA	-5.02	1.39	1.45
3	D	269	TYR	C-N	5.02	1.39	1.33
7	H	54	VAL	C-O	-5.02	1.18	1.24
2	K	50	HIS	CA-C	-5.02	1.46	1.52
3	L	479	ILE	CA-C	-5.02	1.46	1.52
4	M	866	VAL	C-O	-5.02	1.18	1.24
6	O	260	VAL	N-CA	-5.02	1.40	1.46
4	M	652	LYS	CA-C	-5.02	1.46	1.52
5	F	61	LEU	C-O	-5.02	1.18	1.24
3	D	108	HIS	C-N	-5.01	1.28	1.34
3	L	694	GLN	C-N	5.01	1.39	1.33
6	O	925	SER	C-O	-5.01	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	55	VAL	CA-C	-5.01	1.46	1.52
6	O	532	PRO	N-CA	-5.01	1.42	1.46
5	F	99	ASP	N-CA	-5.01	1.40	1.46
3	D	308	MET	CA-C	-5.01	1.46	1.52
3	L	565	GLY	CA-C	-5.01	1.46	1.51
3	D	694	GLN	C-N	5.00	1.39	1.33
4	E	103	ILE	C-N	5.00	1.40	1.34
4	E	489	ALA	N-CA	5.00	1.52	1.46
6	G	490	GLU	CA-C	-5.00	1.46	1.52
3	L	355	PRO	CA-C	-5.00	1.45	1.52
3	L	781	ASN	C-O	-5.00	1.17	1.24
4	M	405	LEU	C-N	5.00	1.40	1.33
6	O	241	GLU	CA-C	-5.00	1.46	1.52

All (3278) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	496	GLU	N-CA-C	19.10	132.17	111.36
6	G	496	GLU	N-CA-C	19.02	132.09	111.36
7	H	90	ILE	CA-C-O	-14.64	108.88	118.69
7	P	90	ILE	CA-C-O	-14.58	108.92	118.69
4	E	302	ALA	CA-C-N	13.25	139.37	120.28
4	E	302	ALA	C-N-CA	13.25	139.37	120.28
4	M	302	ALA	CA-C-N	13.21	139.30	120.28
4	M	302	ALA	C-N-CA	13.21	139.30	120.28
6	G	472	ILE	N-CA-C	13.04	123.92	110.62
6	O	472	ILE	N-CA-C	13.00	123.88	110.62
4	E	450	VAL	N-CA-C	12.96	123.83	110.62
4	M	450	VAL	N-CA-C	12.88	123.75	110.62
4	E	206	ASN	N-CA-C	-12.81	98.61	114.75
4	M	206	ASN	N-CA-C	-12.72	98.72	114.75
6	O	64	ARG	N-CA-C	12.69	125.11	111.28
6	G	64	ARG	N-CA-C	12.62	125.03	111.28
3	L	431	GLU	N-CA-C	-12.55	100.32	114.62
3	D	431	GLU	N-CA-C	-12.53	100.34	114.62
7	P	132	THR	N-CA-C	-11.89	98.32	111.28
7	H	132	THR	N-CA-C	-11.86	98.35	111.28
2	C	732	HIS	CA-C-N	11.68	135.92	120.28
2	C	732	HIS	C-N-CA	11.68	135.92	120.28
2	K	732	HIS	CA-C-N	11.66	135.91	120.28
2	K	732	HIS	C-N-CA	11.66	135.91	120.28
4	E	203	VAL	N-CA-C	11.47	121.31	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	203	VAL	N-CA-C	11.43	121.27	110.53
2	K	164	ILE	N-CA-C	-11.36	102.70	111.90
2	C	164	ILE	N-CA-C	-11.34	102.72	111.90
6	G	486	ILE	O-C-N	-11.32	108.19	121.10
6	O	486	ILE	O-C-N	-11.30	108.21	121.10
3	D	642	GLU	CA-C-O	-10.99	108.77	120.42
5	F	26	LEU	N-CA-C	-10.92	99.34	111.14
3	L	642	GLU	CA-C-O	-10.92	108.84	120.42
5	N	26	LEU	N-CA-C	-10.91	99.35	111.14
2	K	54	VAL	N-CA-C	-10.58	92.30	107.75
2	C	54	VAL	N-CA-C	-10.54	92.36	107.75
4	M	766	LYS	CA-C-N	10.40	133.75	122.11
4	M	766	LYS	C-N-CA	10.40	133.75	122.11
3	D	461	ILE	N-CA-C	-10.27	93.70	108.48
3	L	461	ILE	N-CA-C	-10.27	93.70	108.48
6	O	563	LYS	CA-C-N	10.26	133.69	120.56
6	O	563	LYS	C-N-CA	10.26	133.69	120.56
6	G	563	LYS	CA-C-N	10.22	133.64	120.56
6	G	563	LYS	C-N-CA	10.22	133.64	120.56
2	K	697	THR	N-CA-C	-10.17	100.62	113.23
2	C	697	THR	N-CA-C	-10.16	100.63	113.23
6	O	869	THR	N-CA-C	-10.16	92.85	109.40
6	G	869	THR	N-CA-C	-10.15	92.86	109.40
4	M	756	LEU	N-CA-C	-10.13	92.89	109.40
3	D	78	ASP	CA-C-N	10.07	137.25	122.74
3	D	78	ASP	C-N-CA	10.07	137.25	122.74
3	L	78	ASP	CA-C-N	10.02	137.16	122.74
3	L	78	ASP	C-N-CA	10.02	137.16	122.74
4	M	542	LEU	CA-C-N	10.00	133.44	120.44
4	M	542	LEU	C-N-CA	10.00	133.44	120.44
4	E	542	LEU	CA-C-N	9.98	133.42	120.44
4	E	542	LEU	C-N-CA	9.98	133.42	120.44
6	G	544	GLY	CA-C-N	9.92	133.33	120.44
6	G	544	GLY	C-N-CA	9.92	133.33	120.44
6	O	544	GLY	CA-C-N	9.89	133.29	120.44
6	O	544	GLY	C-N-CA	9.89	133.29	120.44
4	M	429	SER	N-CA-C	9.82	122.90	111.11
6	G	873	ASN	N-CA-C	-9.81	98.02	111.56
4	E	429	SER	N-CA-C	9.80	122.87	111.11
6	O	873	ASN	N-CA-C	-9.79	98.05	111.56
3	L	204	SER	N-CA-C	-9.77	94.08	109.23
3	D	204	SER	N-CA-C	-9.74	94.12	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	503	GLU	CA-C-N	9.68	133.63	120.38
4	E	503	GLU	C-N-CA	9.68	133.63	120.38
6	G	63	ILE	N-CA-C	9.65	120.47	110.62
4	M	503	GLU	CA-C-N	9.65	133.60	120.38
4	M	503	GLU	C-N-CA	9.65	133.60	120.38
6	O	63	ILE	N-CA-C	9.65	120.46	110.62
4	E	254	PHE	N-CA-C	-9.63	93.71	109.40
4	M	465	LYS	N-CA-C	-9.62	98.69	113.89
4	M	254	PHE	N-CA-C	-9.62	93.72	109.40
4	E	465	LYS	N-CA-C	-9.61	98.70	113.89
3	D	429	GLY	N-CA-C	-9.56	99.32	112.13
3	L	429	GLY	N-CA-C	-9.53	99.37	112.13
3	D	286	VAL	N-CA-C	-9.52	93.39	108.81
3	L	469	PHE	N-CA-C	-9.50	94.49	109.50
3	L	286	VAL	N-CA-C	-9.50	93.42	108.81
4	M	356	SER	CA-C-N	9.50	133.47	120.46
4	M	356	SER	C-N-CA	9.50	133.47	120.46
3	D	469	PHE	N-CA-C	-9.49	94.50	109.50
4	E	356	SER	CA-C-N	9.48	133.45	120.46
4	E	356	SER	C-N-CA	9.48	133.45	120.46
6	G	106	ARG	N-CA-C	-9.47	100.49	112.90
6	O	106	ARG	N-CA-C	-9.43	100.54	112.90
3	D	573	LEU	N-CA-C	-9.41	94.32	109.76
7	Q	417	VAL	N-CA-C	9.41	120.22	110.72
3	D	490	TYR	N-CA-C	-9.41	93.08	108.41
3	L	573	LEU	N-CA-C	-9.41	94.33	109.76
4	M	736	ASP	CA-C-O	-9.40	108.79	119.32
3	L	490	TYR	N-CA-C	-9.39	93.10	108.41
7	H	417	VAL	N-CA-C	9.37	120.19	110.72
2	K	395	THR	CA-C-N	9.34	126.12	120.24
2	K	395	THR	C-N-CA	9.34	126.12	120.24
3	D	642	GLU	O-C-N	9.31	132.76	122.15
7	P	417	VAL	N-CA-C	9.30	120.12	110.72
4	M	746	GLY	CA-C-O	-9.29	112.65	121.38
2	C	395	THR	CA-C-N	9.28	126.09	120.24
2	C	395	THR	C-N-CA	9.28	126.09	120.24
2	K	407	ALA	CA-C-N	9.27	129.01	119.56
2	K	407	ALA	C-N-CA	9.27	129.01	119.56
3	L	642	GLU	O-C-N	9.27	132.71	122.15
7	P	131	ARG	CA-C-N	9.25	132.67	120.28
7	P	131	ARG	C-N-CA	9.25	132.67	120.28
7	P	66	MET	N-CA-C	-9.24	94.19	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	759	THR	N-CA-C	-9.24	95.68	109.81
2	C	407	ALA	CA-C-N	9.23	128.97	119.56
2	C	407	ALA	C-N-CA	9.23	128.97	119.56
7	H	66	MET	N-CA-C	-9.23	94.21	109.07
7	H	131	ARG	CA-C-N	9.23	132.65	120.28
7	H	131	ARG	C-N-CA	9.23	132.65	120.28
4	E	411	PHE	N-CA-C	-9.20	102.18	112.57
4	M	411	PHE	N-CA-C	-9.15	102.23	112.57
6	O	42	LEU	CA-C-N	9.13	132.31	120.44
6	O	42	LEU	C-N-CA	9.13	132.31	120.44
6	G	42	LEU	CA-C-N	9.12	132.30	120.44
6	G	42	LEU	C-N-CA	9.12	132.30	120.44
2	C	276	TRP	CA-C-N	9.10	133.69	120.95
2	C	276	TRP	C-N-CA	9.10	133.69	120.95
6	G	170	ILE	CA-C-N	9.10	128.84	119.56
6	G	170	ILE	C-N-CA	9.10	128.84	119.56
6	O	170	ILE	CA-C-N	9.06	128.81	119.56
6	O	170	ILE	C-N-CA	9.06	128.81	119.56
5	F	110	GLU	N-CA-C	-9.06	96.24	108.74
6	O	560	THR	CA-C-N	9.05	132.41	120.28
6	O	560	THR	C-N-CA	9.05	132.41	120.28
5	N	110	GLU	N-CA-C	-9.04	96.26	108.74
6	G	507	THR	N-CA-C	-9.04	104.31	114.62
2	K	276	TRP	CA-C-N	9.03	133.60	120.95
2	K	276	TRP	C-N-CA	9.03	133.60	120.95
6	G	560	THR	CA-C-N	9.03	132.38	120.28
6	G	560	THR	C-N-CA	9.03	132.38	120.28
7	Q	479	CYS	N-CA-C	-9.01	101.23	113.30
6	O	507	THR	N-CA-C	-9.00	104.36	114.62
7	P	479	CYS	N-CA-C	-9.00	101.24	113.30
4	M	386	LEU	N-CA-C	-8.99	101.42	111.14
3	L	717	GLU	CA-C-N	8.99	129.96	119.98
3	L	717	GLU	C-N-CA	8.99	129.96	119.98
2	C	291	HIS	N-CA-C	-8.98	99.64	113.02
2	K	291	HIS	N-CA-C	-8.97	99.66	113.02
4	E	386	LEU	N-CA-C	-8.96	101.46	111.14
3	D	717	GLU	CA-C-N	8.95	129.91	119.98
3	D	717	GLU	C-N-CA	8.95	129.91	119.98
7	H	479	CYS	N-CA-C	-8.95	101.31	113.30
6	G	130	ALA	N-CA-C	-8.93	102.12	113.72
4	E	208	ARG	CA-C-N	8.91	132.03	120.44
4	E	208	ARG	C-N-CA	8.91	132.03	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	80	ILE	N-CA-C	-8.91	95.65	108.48
6	O	130	ALA	N-CA-C	-8.91	102.14	113.72
5	N	80	ILE	N-CA-C	-8.90	95.66	108.48
4	M	709	LEU	N-CA-C	-8.89	95.28	109.59
4	M	208	ARG	CA-C-N	8.89	131.99	120.44
4	M	208	ARG	C-N-CA	8.89	131.99	120.44
2	K	435	LEU	CA-C-O	8.88	129.78	120.54
2	C	435	LEU	CA-C-O	8.88	129.77	120.54
2	C	423	ARG	CA-C-N	8.84	134.66	122.19
2	C	423	ARG	C-N-CA	8.84	134.66	122.19
1	J	108	GLN	N-CA-C	8.84	122.02	111.33
1	B	108	GLN	N-CA-C	8.84	122.02	111.33
2	K	423	ARG	CA-C-N	8.83	134.65	122.19
2	K	423	ARG	C-N-CA	8.83	134.65	122.19
6	O	952	ALA	CA-C-N	8.83	132.12	120.28
6	O	952	ALA	C-N-CA	8.83	132.12	120.28
2	K	440	LEU	N-CA-C	-8.83	104.55	114.62
3	D	423	SER	N-CA-C	-8.83	102.21	113.16
4	E	426	GLU	N-CA-C	-8.83	101.34	112.90
1	A	108	GLN	N-CA-C	8.82	122.00	111.33
1	I	108	GLN	N-CA-C	8.82	122.00	111.33
2	C	440	LEU	N-CA-C	-8.81	104.58	114.62
3	L	423	SER	N-CA-C	-8.81	102.24	113.16
6	G	952	ALA	CA-C-N	8.79	132.06	120.28
6	G	952	ALA	C-N-CA	8.79	132.06	120.28
4	M	426	GLU	N-CA-C	-8.78	101.39	112.90
4	M	193	GLN	N-CA-C	8.78	120.85	111.28
4	E	193	GLN	N-CA-C	8.78	120.85	111.28
6	G	451	SER	CA-C-N	8.78	131.80	120.56
6	G	451	SER	C-N-CA	8.78	131.80	120.56
6	O	451	SER	CA-C-N	8.78	131.79	120.56
6	O	451	SER	C-N-CA	8.78	131.79	120.56
2	K	649	PHE	CA-C-N	8.76	132.02	120.28
2	K	649	PHE	C-N-CA	8.76	132.02	120.28
4	M	509	ILE	N-CA-C	-8.76	102.01	110.42
6	O	410	SER	CA-C-N	8.76	132.36	120.54
6	O	410	SER	C-N-CA	8.76	132.36	120.54
2	C	649	PHE	CA-C-N	8.75	132.00	120.28
2	C	649	PHE	C-N-CA	8.75	132.00	120.28
4	E	509	ILE	N-CA-C	-8.72	102.04	110.42
6	G	410	SER	CA-C-N	8.72	132.31	120.54
6	G	410	SER	C-N-CA	8.72	132.31	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	116	ILE	N-CA-C	8.69	119.50	110.72
7	H	56	TYR	N-CA-C	-8.67	94.77	109.24
6	O	549	GLY	O-C-N	8.66	130.50	122.19
5	F	120	GLY	O-C-N	8.66	130.50	122.19
6	G	549	GLY	O-C-N	8.66	130.50	122.19
7	P	56	TYR	N-CA-C	-8.65	94.79	109.24
2	K	767	LEU	CA-C-N	8.64	133.44	120.31
2	K	767	LEU	C-N-CA	8.64	133.44	120.31
2	C	767	LEU	CA-C-N	8.64	133.44	120.31
2	C	767	LEU	C-N-CA	8.64	133.44	120.31
7	H	116	ILE	N-CA-C	8.64	119.44	110.72
7	Q	366	LEU	CA-C-N	-8.60	109.36	122.09
7	Q	366	LEU	C-N-CA	-8.60	109.36	122.09
5	N	120	GLY	O-C-N	8.60	130.53	122.19
7	P	366	LEU	CA-C-N	-8.56	109.42	122.09
7	P	366	LEU	C-N-CA	-8.56	109.42	122.09
3	D	21	VAL	N-CA-C	-8.56	97.05	108.35
7	H	366	LEU	CA-C-N	-8.56	109.43	122.09
7	H	366	LEU	C-N-CA	-8.56	109.43	122.09
2	K	431	ARG	N-CA-C	-8.56	99.38	113.50
6	G	89	THR	CA-C-O	-8.54	112.16	119.76
6	G	394	PHE	CA-C-N	8.54	128.16	118.85
6	G	394	PHE	C-N-CA	8.54	128.16	118.85
3	L	21	VAL	N-CA-C	-8.53	97.09	108.35
6	O	394	PHE	CA-C-N	8.53	128.15	118.85
6	O	394	PHE	C-N-CA	8.53	128.15	118.85
2	C	431	ARG	N-CA-C	-8.53	99.43	113.50
4	E	435	GLY	CA-C-N	8.53	131.70	120.28
4	E	435	GLY	C-N-CA	8.53	131.70	120.28
4	M	435	GLY	CA-C-N	8.52	131.69	120.28
4	M	435	GLY	C-N-CA	8.52	131.69	120.28
3	D	657	ALA	CA-C-N	8.50	131.49	120.44
3	D	657	ALA	C-N-CA	8.50	131.49	120.44
3	L	657	ALA	CA-C-N	8.49	131.48	120.44
3	L	657	ALA	C-N-CA	8.49	131.48	120.44
6	O	860	ALA	CA-C-N	8.49	131.66	120.28
6	O	860	ALA	C-N-CA	8.49	131.66	120.28
6	O	89	THR	CA-C-O	-8.49	112.20	119.76
7	H	377	THR	CA-C-N	-8.48	112.67	123.19
7	H	377	THR	C-N-CA	-8.48	112.67	123.19
6	G	860	ALA	CA-C-N	8.48	131.64	120.28
6	G	860	ALA	C-N-CA	8.48	131.64	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	441	LYS	CA-C-N	8.47	131.63	120.28
6	O	441	LYS	C-N-CA	8.47	131.63	120.28
6	O	78	LEU	CA-C-N	8.47	131.63	120.28
6	O	78	LEU	C-N-CA	8.47	131.63	120.28
4	E	455	ILE	O-C-N	8.46	130.08	121.87
6	G	78	LEU	CA-C-N	8.46	131.61	120.28
6	G	78	LEU	C-N-CA	8.46	131.61	120.28
6	G	818	ILE	N-CA-C	-8.43	95.89	108.46
5	N	69	TYR	CA-C-O	-8.43	112.23	121.33
5	F	69	TYR	CA-C-O	-8.42	112.23	121.33
6	G	79	LEU	CA-C-N	8.42	132.00	120.46
6	G	79	LEU	C-N-CA	8.42	132.00	120.46
7	P	377	THR	CA-C-N	-8.41	112.76	123.19
7	P	377	THR	C-N-CA	-8.41	112.76	123.19
6	O	818	ILE	N-CA-C	-8.41	95.93	108.46
4	M	455	ILE	O-C-N	8.41	130.03	121.87
6	G	376	THR	N-CA-C	-8.39	95.05	108.73
3	L	115	LEU	N-CA-C	-8.38	96.31	109.72
7	Q	377	THR	CA-C-N	-8.38	112.79	123.19
7	Q	377	THR	C-N-CA	-8.38	112.79	123.19
3	D	115	LEU	N-CA-C	-8.38	96.31	109.72
6	O	376	THR	N-CA-C	-8.38	95.07	108.73
2	K	611	VAL	CA-C-O	-8.38	111.42	120.47
6	O	79	LEU	CA-C-N	8.37	131.93	120.46
6	O	79	LEU	C-N-CA	8.37	131.93	120.46
6	O	100	LEU	CA-C-N	8.37	133.43	121.55
6	O	100	LEU	C-N-CA	8.37	133.43	121.55
2	C	273	ILE	N-CA-C	-8.36	96.41	108.11
2	C	611	VAL	CA-C-O	-8.36	111.44	120.47
5	F	69	TYR	O-C-N	8.36	132.78	123.25
4	M	621	PRO	N-CA-C	8.35	124.51	113.57
6	G	100	LEU	CA-C-N	8.35	133.40	121.55
6	G	100	LEU	C-N-CA	8.35	133.40	121.55
2	C	15	LEU	N-CA-C	-8.35	95.89	108.99
2	K	15	LEU	N-CA-C	-8.35	95.89	108.99
2	K	273	ILE	N-CA-C	-8.35	96.42	108.11
6	G	165	ASN	CA-C-N	8.34	134.34	122.08
6	G	165	ASN	C-N-CA	8.34	134.34	122.08
5	N	69	TYR	O-C-N	8.34	132.76	123.25
6	O	165	ASN	CA-C-N	8.33	134.33	122.08
6	O	165	ASN	C-N-CA	8.33	134.33	122.08
6	G	239	PRO	CA-C-N	8.32	131.63	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	239	PRO	C-N-CA	8.32	131.63	120.65
6	O	239	PRO	CA-C-N	8.30	131.61	120.65
6	O	239	PRO	C-N-CA	8.30	131.61	120.65
3	D	104	CYS	CA-C-N	8.29	134.46	122.94
3	D	104	CYS	C-N-CA	8.29	134.46	122.94
3	L	104	CYS	CA-C-N	8.29	134.46	122.94
3	L	104	CYS	C-N-CA	8.29	134.46	122.94
6	O	352	ASN	CA-C-N	8.25	130.96	120.56
6	O	352	ASN	C-N-CA	8.25	130.96	120.56
2	K	208	VAL	CA-C-N	8.24	131.99	120.29
2	K	208	VAL	C-N-CA	8.24	131.99	120.29
6	G	352	ASN	CA-C-N	8.24	130.94	120.56
6	G	352	ASN	C-N-CA	8.24	130.94	120.56
2	K	743	SER	N-CA-C	-8.23	105.23	114.62
2	K	618	ALA	N-CA-C	-8.22	101.28	113.61
7	H	102	ILE	O-C-N	8.21	129.84	121.87
2	C	743	SER	N-CA-C	-8.21	105.26	114.62
2	C	645	GLU	CA-C-N	8.20	131.94	120.29
2	C	645	GLU	C-N-CA	8.20	131.94	120.29
2	K	645	GLU	CA-C-N	8.20	131.94	120.29
2	K	645	GLU	C-N-CA	8.20	131.94	120.29
7	P	49	VAL	N-CA-C	-8.20	96.69	108.42
7	P	102	ILE	O-C-N	8.20	129.82	121.87
7	H	49	VAL	N-CA-C	-8.20	96.70	108.42
2	K	704	SER	CA-C-N	8.20	131.10	120.44
2	K	704	SER	C-N-CA	8.20	131.10	120.44
2	C	208	VAL	CA-C-N	8.20	131.93	120.29
2	C	208	VAL	C-N-CA	8.20	131.93	120.29
2	C	704	SER	CA-C-N	8.20	131.09	120.44
2	C	704	SER	C-N-CA	8.20	131.09	120.44
2	C	618	ALA	N-CA-C	-8.17	101.36	113.61
7	P	19	ARG	CA-C-N	8.16	134.70	123.11
7	P	19	ARG	C-N-CA	8.16	134.70	123.11
7	H	19	ARG	CA-C-N	8.16	134.69	123.11
7	H	19	ARG	C-N-CA	8.16	134.69	123.11
3	D	352	GLU	N-CA-C	-8.14	104.50	114.75
3	L	352	GLU	N-CA-C	-8.12	104.51	114.75
3	D	268	ASN	N-CA-C	-8.12	97.07	109.41
6	G	304	ARG	CA-C-N	8.12	130.99	120.44
6	G	304	ARG	C-N-CA	8.12	130.99	120.44
7	H	269	ILE	N-CA-C	-8.11	105.23	113.10
4	E	324	ALA	N-CA-C	8.11	128.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	455	ILE	CA-C-O	-8.11	112.52	120.95
6	O	304	ARG	CA-C-N	8.11	130.98	120.44
6	O	304	ARG	C-N-CA	8.11	130.98	120.44
3	L	268	ASN	N-CA-C	-8.10	97.10	109.41
7	Q	269	ILE	N-CA-C	-8.10	105.25	113.10
4	E	455	ILE	CA-C-O	-8.09	112.54	120.95
4	M	324	ALA	N-CA-C	8.08	128.01	110.80
4	M	847	LEU	N-CA-C	-8.07	96.24	109.40
6	O	449	ILE	O-C-N	-8.06	115.45	123.19
6	G	775	LEU	N-CA-C	-8.06	97.13	109.95
6	G	792	LEU	N-CA-C	-8.06	93.63	110.80
6	G	424	VAL	CA-C-N	8.04	130.89	120.44
6	G	424	VAL	C-N-CA	8.04	130.89	120.44
6	O	775	LEU	N-CA-C	-8.04	97.17	109.95
6	O	792	LEU	N-CA-C	-8.04	93.68	110.80
4	E	543	ASN	O-C-N	8.03	130.34	122.07
4	M	374	GLU	CA-C-N	8.03	131.84	120.28
4	M	374	GLU	C-N-CA	8.03	131.84	120.28
3	L	578	LYS	CA-C-N	8.02	132.26	120.87
3	L	578	LYS	C-N-CA	8.02	132.26	120.87
4	E	374	GLU	CA-C-N	8.02	131.83	120.28
4	E	374	GLU	C-N-CA	8.02	131.83	120.28
4	M	543	ASN	O-C-N	8.02	130.33	122.07
3	D	578	LYS	CA-C-N	8.02	132.25	120.87
3	D	578	LYS	C-N-CA	8.02	132.25	120.87
6	O	424	VAL	CA-C-N	8.02	130.86	120.44
6	O	424	VAL	C-N-CA	8.02	130.86	120.44
7	P	269	ILE	N-CA-C	-8.01	105.33	113.10
4	M	535	LEU	CA-C-N	8.00	131.51	120.63
4	M	535	LEU	C-N-CA	8.00	131.51	120.63
3	L	473	SER	N-CA-C	-8.00	104.40	114.56
3	D	473	SER	N-CA-C	-8.00	104.41	114.56
6	G	338	LYS	O-C-N	7.98	130.71	122.09
2	C	526	GLU	CA-C-N	7.98	130.81	120.44
2	C	526	GLU	C-N-CA	7.98	130.81	120.44
2	K	526	GLU	CA-C-N	7.98	130.81	120.44
2	K	526	GLU	C-N-CA	7.98	130.81	120.44
6	G	71	ASP	N-CA-C	-7.97	97.68	109.15
6	O	338	LYS	O-C-N	7.96	130.68	122.09
4	M	720	VAL	N-CA-C	-7.95	104.96	112.83
2	K	723	ALA	N-CA-C	-7.95	104.47	114.56
5	F	25	ARG	CA-C-O	7.93	129.17	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	535	LEU	CA-C-N	7.93	131.41	120.63
4	E	535	LEU	C-N-CA	7.93	131.41	120.63
3	L	441	VAL	N-CA-C	-7.93	96.72	108.45
3	D	441	VAL	N-CA-C	-7.91	96.74	108.45
6	O	71	ASP	N-CA-C	-7.91	97.76	109.15
2	C	723	ALA	N-CA-C	-7.91	104.52	114.56
3	D	556	HIS	CA-C-O	7.90	129.08	120.71
6	O	66	VAL	CA-C-O	-7.89	112.27	120.71
3	L	556	HIS	CA-C-O	7.89	129.07	120.71
6	G	66	VAL	CA-C-O	-7.88	112.28	120.71
6	G	540	PRO	O-C-N	-7.88	112.16	121.46
2	C	447	LYS	CA-C-N	7.87	131.69	120.98
2	C	447	LYS	C-N-CA	7.87	131.69	120.98
3	D	705	ALA	N-CA-C	-7.87	103.24	112.92
6	O	333	ASP	CA-C-N	7.87	130.82	120.28
6	O	333	ASP	C-N-CA	7.87	130.82	120.28
6	O	540	PRO	O-C-N	-7.87	112.17	121.46
6	O	207	ASP	CA-C-N	7.87	130.82	120.28
6	O	207	ASP	C-N-CA	7.87	130.82	120.28
6	G	333	ASP	CA-C-N	7.86	130.81	120.28
6	G	333	ASP	C-N-CA	7.86	130.81	120.28
2	K	447	LYS	CA-C-N	7.86	131.67	120.98
2	K	447	LYS	C-N-CA	7.86	131.67	120.98
5	N	25	ARG	CA-C-O	7.85	129.09	120.92
3	L	705	ALA	N-CA-C	-7.84	103.28	112.92
4	M	733	LYS	N-CA-C	-7.84	96.16	109.24
6	O	790	LEU	N-CA-C	-7.82	98.68	109.71
2	K	400	ALA	N-CA-C	-7.82	94.14	110.80
6	G	207	ASP	CA-C-N	7.82	130.76	120.28
6	G	207	ASP	C-N-CA	7.82	130.76	120.28
6	O	805	LYS	N-CA-C	-7.82	97.41	109.52
4	M	364	ILE	CA-C-N	7.81	130.60	120.44
4	M	364	ILE	C-N-CA	7.81	130.60	120.44
6	G	441	LYS	CA-C-N	7.81	131.53	120.28
6	G	441	LYS	C-N-CA	7.81	131.53	120.28
6	G	790	LEU	N-CA-C	-7.81	98.70	109.71
6	G	805	LYS	N-CA-C	-7.81	97.42	109.52
2	C	400	ALA	N-CA-C	-7.80	94.18	110.80
3	D	232	VAL	CA-C-N	7.80	131.05	120.44
3	D	232	VAL	C-N-CA	7.80	131.05	120.44
7	H	48	PHE	N-CA-C	-7.80	97.04	109.59
4	M	266	VAL	CA-C-N	7.80	130.38	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	266	VAL	C-N-CA	7.80	130.38	120.56
5	N	49	PHE	CA-C-O	-7.79	112.64	120.82
5	F	141	GLN	CA-C-N	7.79	130.37	120.56
5	F	141	GLN	C-N-CA	7.79	130.37	120.56
3	L	232	VAL	CA-C-N	7.79	131.03	120.44
3	L	232	VAL	C-N-CA	7.79	131.03	120.44
3	D	631	LYS	CA-C-N	7.77	130.54	120.44
3	D	631	LYS	C-N-CA	7.77	130.54	120.44
5	N	141	GLN	CA-C-N	7.75	130.33	120.56
5	N	141	GLN	C-N-CA	7.75	130.33	120.56
4	E	266	VAL	CA-C-N	7.75	130.32	120.56
4	E	266	VAL	C-N-CA	7.75	130.32	120.56
4	E	364	ILE	CA-C-N	7.74	130.51	120.44
4	E	364	ILE	C-N-CA	7.74	130.51	120.44
6	O	966	THR	CA-C-O	-7.74	113.17	121.45
6	G	287	ASP	N-CA-C	7.74	119.71	111.28
6	G	868	VAL	N-CA-C	-7.74	97.17	108.23
3	L	532	ASP	N-CA-C	-7.74	103.87	113.38
3	D	110	THR	N-CA-C	-7.73	103.87	113.38
6	O	287	ASP	N-CA-C	7.73	119.70	111.28
6	O	868	VAL	N-CA-C	-7.73	97.18	108.23
4	M	403	THR	CA-C-N	7.73	130.63	120.28
4	M	403	THR	C-N-CA	7.73	130.63	120.28
5	F	49	PHE	CA-C-O	-7.73	112.71	120.82
2	K	138	VAL	CA-C-N	7.73	132.05	120.31
2	K	138	VAL	C-N-CA	7.73	132.05	120.31
3	D	759	ARG	CA-C-N	7.72	130.48	120.44
3	D	759	ARG	C-N-CA	7.72	130.48	120.44
3	L	631	LYS	CA-C-N	7.72	130.48	120.44
3	L	631	LYS	C-N-CA	7.72	130.48	120.44
2	C	138	VAL	CA-C-N	7.72	132.04	120.31
2	C	138	VAL	C-N-CA	7.72	132.04	120.31
4	E	403	THR	CA-C-N	7.72	130.62	120.28
4	E	403	THR	C-N-CA	7.72	130.62	120.28
3	L	759	ARG	CA-C-N	7.72	130.47	120.44
3	L	759	ARG	C-N-CA	7.72	130.47	120.44
5	F	38	VAL	O-C-N	7.71	129.35	121.87
6	G	966	THR	CA-C-O	-7.71	113.20	121.45
4	E	530	PHE	N-CA-C	7.70	119.31	111.07
3	L	110	THR	N-CA-C	-7.70	103.91	113.38
3	D	532	ASP	N-CA-C	-7.69	103.92	113.38
6	G	857	GLN	O-C-N	7.69	129.99	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	325	ILE	CA-C-O	7.69	128.95	120.95
5	N	38	VAL	O-C-N	7.69	129.33	121.87
6	O	53	GLU	CA-C-N	7.69	132.05	121.05
6	O	53	GLU	C-N-CA	7.69	132.05	121.05
4	E	235	VAL	CA-C-N	7.69	132.00	120.31
4	E	235	VAL	C-N-CA	7.69	132.00	120.31
4	M	530	PHE	N-CA-C	7.69	119.30	111.07
4	E	460	GLY	CA-C-N	7.68	130.89	120.44
4	E	460	GLY	C-N-CA	7.68	130.89	120.44
4	E	545	GLY	CA-C-N	7.68	130.43	120.44
4	E	545	GLY	C-N-CA	7.68	130.43	120.44
7	H	118	ALA	CA-C-N	7.68	133.06	122.07
7	H	118	ALA	C-N-CA	7.68	133.06	122.07
4	M	235	VAL	CA-C-N	7.68	131.99	120.31
4	M	235	VAL	C-N-CA	7.68	131.99	120.31
6	G	377	ASP	N-CA-C	7.68	119.73	111.36
4	M	678	THR	N-CA-C	-7.67	97.65	109.24
6	G	53	GLU	CA-C-N	7.67	132.01	121.05
6	G	53	GLU	C-N-CA	7.67	132.01	121.05
6	O	325	ILE	CA-C-O	7.67	128.93	120.95
7	P	118	ALA	CA-C-N	7.67	133.04	122.07
7	P	118	ALA	C-N-CA	7.67	133.04	122.07
4	M	189	ASN	N-CA-C	-7.67	98.68	110.10
4	M	545	GLY	CA-C-N	7.66	130.40	120.44
4	M	545	GLY	C-N-CA	7.66	130.40	120.44
6	O	466	CYS	N-CA-C	7.66	120.60	111.33
6	O	377	ASP	N-CA-C	7.66	119.71	111.36
6	G	387	LEU	CA-C-N	7.65	130.53	120.28
6	G	387	LEU	C-N-CA	7.65	130.53	120.28
4	E	189	ASN	N-CA-C	-7.64	98.71	110.10
6	G	466	CYS	N-CA-C	7.64	120.58	111.33
3	D	20	SER	CA-C-N	7.64	134.25	122.25
3	D	20	SER	C-N-CA	7.64	134.25	122.25
6	G	857	GLN	CA-C-O	-7.64	112.80	120.82
3	L	20	SER	CA-C-N	7.64	134.24	122.25
3	L	20	SER	C-N-CA	7.64	134.24	122.25
6	O	857	GLN	O-C-N	7.64	129.94	122.07
6	O	387	LEU	CA-C-N	7.63	130.51	120.28
6	O	387	LEU	C-N-CA	7.63	130.51	120.28
4	M	861	SER	N-CA-C	-7.63	103.86	113.02
7	P	86	PHE	O-C-N	7.63	130.21	122.12
6	O	857	GLN	CA-C-O	-7.63	112.81	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	541	ALA	N-CA-C	-7.62	103.05	111.36
7	H	86	PHE	O-C-N	7.62	130.20	122.12
2	K	72	ASP	N-CA-C	-7.61	103.97	113.18
5	F	46	LYS	CA-C-N	7.61	130.33	120.44
5	F	46	LYS	C-N-CA	7.61	130.33	120.44
6	O	420	VAL	CA-C-N	7.60	130.47	120.28
6	O	420	VAL	C-N-CA	7.60	130.47	120.28
4	M	647	VAL	N-CA-C	-7.60	96.65	107.75
3	L	543	LEU	O-C-N	-7.60	114.56	123.22
6	G	420	VAL	CA-C-N	7.59	130.46	120.28
6	G	420	VAL	C-N-CA	7.59	130.46	120.28
5	N	46	LYS	CA-C-N	7.59	130.31	120.44
5	N	46	LYS	C-N-CA	7.59	130.31	120.44
6	G	350	SER	N-CA-C	-7.59	101.11	112.04
4	M	541	ALA	N-CA-C	-7.59	103.09	111.36
6	O	837	ILE	CA-C-N	7.59	131.49	120.71
6	O	837	ILE	C-N-CA	7.59	131.49	120.71
7	P	86	PHE	CA-C-O	-7.58	112.51	120.55
6	G	837	ILE	CA-C-N	7.58	131.47	120.71
6	G	837	ILE	C-N-CA	7.58	131.47	120.71
6	O	350	SER	N-CA-C	-7.58	101.12	112.04
4	M	850	ASP	N-CA-C	-7.57	104.94	114.56
4	E	147	ALA	N-CA-C	7.56	119.60	111.36
4	M	147	ALA	N-CA-C	7.56	119.60	111.36
2	K	724	GLU	O-C-N	7.56	129.85	122.07
7	P	477	ASN	CA-C-N	-7.56	107.95	122.61
7	P	477	ASN	C-N-CA	-7.56	107.95	122.61
7	H	86	PHE	CA-C-O	-7.56	112.54	120.55
2	C	72	ASP	N-CA-C	-7.55	104.04	113.18
2	C	375	ASN	N-CA-C	-7.55	106.01	114.62
6	O	513	LYS	N-CA-C	-7.55	103.05	111.28
3	L	493	GLU	CA-C-N	7.54	130.39	120.28
3	L	493	GLU	C-N-CA	7.54	130.39	120.28
7	H	477	ASN	CA-C-N	-7.54	107.98	122.61
7	H	477	ASN	C-N-CA	-7.54	107.98	122.61
2	C	724	GLU	O-C-N	7.54	129.84	122.07
3	D	740	ALA	CA-C-N	7.54	130.24	120.44
3	D	740	ALA	C-N-CA	7.54	130.24	120.44
3	D	543	LEU	O-C-N	-7.54	114.63	123.22
3	D	493	GLU	CA-C-N	7.53	130.37	120.28
3	D	493	GLU	C-N-CA	7.53	130.37	120.28
6	G	513	LYS	N-CA-C	-7.53	103.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	375	ASN	N-CA-C	-7.53	106.04	114.62
3	L	799	PRO	CA-C-N	7.52	128.28	120.00
3	L	799	PRO	C-N-CA	7.52	128.28	120.00
7	Q	477	ASN	CA-C-N	-7.52	108.02	122.61
7	Q	477	ASN	C-N-CA	-7.52	108.02	122.61
3	D	799	PRO	CA-C-N	7.52	128.27	120.00
3	D	799	PRO	C-N-CA	7.52	128.27	120.00
3	L	740	ALA	CA-C-N	7.52	130.21	120.44
3	L	740	ALA	C-N-CA	7.52	130.21	120.44
4	M	384	SER	CA-C-N	7.51	130.96	120.29
4	M	384	SER	C-N-CA	7.51	130.96	120.29
3	L	457	LEU	CA-C-N	7.51	130.17	120.56
3	L	457	LEU	C-N-CA	7.51	130.17	120.56
4	M	550	GLY	CA-C-N	7.50	135.87	121.54
4	M	550	GLY	C-N-CA	7.50	135.87	121.54
2	C	668	LEU	N-CA-C	-7.50	104.15	113.38
3	D	278	ALA	CA-C-O	-7.50	113.24	121.33
4	E	384	SER	CA-C-N	7.49	130.93	120.29
4	E	384	SER	C-N-CA	7.49	130.93	120.29
2	K	668	LEU	N-CA-C	-7.49	104.17	113.38
3	L	114	ILE	N-CA-C	-7.49	97.30	108.46
2	K	453	CYS	CA-C-O	-7.49	113.24	121.33
2	K	748	ILE	CA-C-N	7.49	130.92	120.29
2	K	748	ILE	C-N-CA	7.49	130.92	120.29
4	E	550	GLY	CA-C-N	7.48	135.83	121.54
4	E	550	GLY	C-N-CA	7.48	135.83	121.54
4	M	286	ALA	CA-C-N	7.48	129.19	119.84
4	M	286	ALA	C-N-CA	7.48	129.19	119.84
4	E	286	ALA	CA-C-N	7.48	129.19	119.84
4	E	286	ALA	C-N-CA	7.48	129.19	119.84
2	K	709	ILE	CA-C-N	7.48	134.23	121.14
2	K	709	ILE	C-N-CA	7.48	134.23	121.14
4	M	460	GLY	CA-C-N	7.48	130.91	120.29
4	M	460	GLY	C-N-CA	7.48	130.91	120.29
2	C	709	ILE	CA-C-N	7.48	134.22	121.14
2	C	709	ILE	C-N-CA	7.48	134.22	121.14
3	D	129	ASP	N-CA-C	7.46	120.48	111.82
6	G	576	LYS	N-CA-C	-7.46	103.30	113.30
3	L	278	ALA	CA-C-O	-7.46	113.27	121.33
3	D	114	ILE	N-CA-C	-7.46	97.35	108.46
2	C	453	CYS	CA-C-O	-7.45	113.28	121.33
6	O	902	TYR	N-CA-C	-7.45	105.36	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	748	ILE	CA-C-N	7.45	130.86	120.29
2	C	748	ILE	C-N-CA	7.45	130.86	120.29
6	O	576	LYS	N-CA-C	-7.45	103.32	113.30
7	P	48	PHE	N-CA-C	-7.45	97.08	109.07
4	M	329	LEU	N-CA-C	7.44	119.47	111.36
2	C	264	ILE	N-CA-C	-7.44	97.77	108.48
3	D	457	LEU	CA-C-N	7.44	130.08	120.56
3	D	457	LEU	C-N-CA	7.44	130.08	120.56
4	M	561	ALA	N-CA-C	7.43	119.38	111.28
6	G	902	TYR	N-CA-C	-7.42	105.39	114.75
4	E	62	GLY	O-C-N	-7.42	117.86	123.35
7	P	368	THR	N-CA-C	-7.42	103.18	111.71
2	K	264	ILE	N-CA-C	-7.42	97.80	108.48
4	E	561	ALA	N-CA-C	7.41	119.36	111.28
4	E	329	LEU	N-CA-C	7.41	119.44	111.36
7	H	368	THR	N-CA-C	-7.41	103.19	111.71
4	M	62	GLY	O-C-N	-7.41	117.87	123.35
7	Q	368	THR	N-CA-C	-7.41	103.19	111.71
3	L	129	ASP	N-CA-C	7.40	120.41	111.82
5	F	67	VAL	CA-C-O	7.40	128.16	120.39
4	M	211	VAL	CA-C-N	7.40	130.19	120.28
4	M	211	VAL	C-N-CA	7.40	130.19	120.28
3	L	111	GLN	CA-C-O	-7.40	113.47	120.94
4	M	845	ARG	N-CA-C	-7.40	96.46	108.52
3	L	744	LEU	O-C-N	7.39	129.96	122.12
4	E	211	VAL	CA-C-N	7.39	130.18	120.28
4	E	211	VAL	C-N-CA	7.39	130.18	120.28
6	O	797	PHE	N-CA-C	-7.39	97.36	109.40
4	E	55	ILE	N-CA-C	7.38	117.47	110.53
5	N	67	VAL	CA-C-O	7.37	128.13	120.39
6	G	287	ASP	CA-C-N	7.37	130.02	120.44
6	G	287	ASP	C-N-CA	7.37	130.02	120.44
2	K	757	LEU	CA-C-N	7.37	130.15	120.28
2	K	757	LEU	C-N-CA	7.37	130.15	120.28
3	D	744	LEU	O-C-N	7.36	129.93	122.12
2	K	231	ILE	N-CA-C	-7.36	97.86	108.53
4	M	738	ASN	N-CA-C	-7.36	95.13	110.80
4	M	55	ILE	N-CA-C	7.36	117.45	110.53
3	D	111	GLN	CA-C-O	-7.36	113.51	120.94
3	D	684	SER	N-CA-C	7.35	118.94	111.07
6	G	797	PHE	N-CA-C	-7.35	97.42	109.40
3	D	401	SER	CA-C-O	7.35	126.65	119.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	231	ILE	N-CA-C	-7.35	97.88	108.53
2	C	757	LEU	CA-C-N	7.34	130.12	120.28
2	C	757	LEU	C-N-CA	7.34	130.12	120.28
4	M	670	ASN	CA-C-O	-7.34	112.64	120.42
6	O	287	ASP	CA-C-N	7.34	129.98	120.44
6	O	287	ASP	C-N-CA	7.34	129.98	120.44
5	F	121	LEU	CA-C-N	7.33	129.97	120.44
5	F	121	LEU	C-N-CA	7.33	129.97	120.44
6	O	788	SER	CA-C-O	-7.33	110.12	120.16
3	L	684	SER	N-CA-C	7.33	118.91	111.07
3	L	401	SER	CA-C-O	7.33	126.62	119.08
3	L	682	GLN	CA-C-N	7.32	130.09	120.28
3	L	682	GLN	C-N-CA	7.32	130.09	120.28
4	E	319	PRO	CA-C-N	7.32	130.08	120.28
4	E	319	PRO	C-N-CA	7.32	130.08	120.28
4	E	543	ASN	CA-C-O	-7.32	113.14	120.82
6	G	195	MET	N-CA-C	-7.31	96.12	108.26
4	M	295	PHE	N-CA-C	7.31	119.25	111.28
2	C	694	TYR	CA-C-N	7.31	130.67	120.29
2	C	694	TYR	C-N-CA	7.31	130.67	120.29
4	E	295	PHE	N-CA-C	7.31	119.25	111.28
5	N	121	LEU	CA-C-N	7.31	129.94	120.44
5	N	121	LEU	C-N-CA	7.31	129.94	120.44
2	K	694	TYR	CA-C-N	7.30	130.66	120.29
2	K	694	TYR	C-N-CA	7.30	130.66	120.29
2	C	223	GLY	N-CA-C	-7.30	98.41	111.19
6	G	788	SER	CA-C-O	-7.30	110.16	120.16
2	K	223	GLY	N-CA-C	-7.30	98.42	111.19
6	O	195	MET	N-CA-C	-7.29	96.16	108.26
3	D	682	GLN	CA-C-N	7.29	130.04	120.28
3	D	682	GLN	C-N-CA	7.29	130.04	120.28
2	K	98	THR	N-CA-C	-7.29	97.55	108.99
4	M	319	PRO	CA-C-N	7.29	130.05	120.28
4	M	319	PRO	C-N-CA	7.29	130.05	120.28
2	C	98	THR	N-CA-C	-7.27	97.58	108.99
6	G	459	LEU	CA-C-O	-7.27	112.85	120.55
4	M	543	ASN	CA-C-O	-7.26	113.19	120.82
6	O	499	GLU	N-CA-C	7.26	126.27	110.80
4	M	772	PHE	CA-C-O	-7.25	112.73	120.42
6	G	499	GLU	N-CA-C	7.25	126.25	110.80
3	D	771	LYS	N-CA-C	7.25	118.82	111.07
3	L	771	LYS	N-CA-C	7.25	118.82	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	459	LEU	CA-C-O	-7.24	112.88	120.55
4	M	386	LEU	CA-C-O	-7.23	113.25	120.70
4	E	330	GLU	N-CA-C	7.23	119.24	111.36
6	G	496	GLU	CA-C-O	-7.23	112.76	120.42
4	E	386	LEU	CA-C-O	-7.23	113.26	120.70
2	C	571	THR	N-CA-C	-7.22	103.49	111.36
4	M	330	GLU	N-CA-C	7.22	119.23	111.36
6	O	561	LEU	CA-C-N	7.22	129.95	120.28
6	O	561	LEU	C-N-CA	7.22	129.95	120.28
7	P	446	ASP	N-CA-C	-7.22	103.49	111.36
6	G	561	LEU	CA-C-N	7.21	129.95	120.28
6	G	561	LEU	C-N-CA	7.21	129.95	120.28
7	Q	446	ASP	N-CA-C	-7.21	103.50	111.36
6	O	105	TYR	N-CA-C	-7.21	103.59	112.88
2	C	534	ALA	CA-C-N	7.20	132.94	123.00
2	C	534	ALA	C-N-CA	7.20	132.94	123.00
2	K	144	HIS	N-CA-C	-7.20	101.67	110.31
2	K	534	ALA	CA-C-N	7.20	132.94	123.00
2	K	534	ALA	C-N-CA	7.20	132.94	123.00
6	G	105	TYR	N-CA-C	-7.20	103.60	112.88
4	M	171	PHE	CA-C-N	7.19	129.91	120.28
4	M	171	PHE	C-N-CA	7.19	129.91	120.28
6	O	587	LEU	CA-C-O	-7.19	112.93	120.55
6	O	496	GLU	CA-C-O	-7.18	112.81	120.42
7	H	446	ASP	N-CA-C	-7.18	103.54	111.36
2	K	571	THR	N-CA-C	-7.17	103.54	111.36
3	L	422	LYS	N-CA-C	-7.17	103.69	113.30
6	O	479	VAL	N-CA-C	7.17	117.96	110.72
6	O	586	MET	CA-C-O	-7.17	112.82	120.42
6	G	784	VAL	N-CA-C	-7.17	105.73	112.83
6	O	784	VAL	N-CA-C	-7.16	105.74	112.83
4	M	62	GLY	CA-C-N	7.16	129.87	120.28
4	M	62	GLY	C-N-CA	7.16	129.87	120.28
7	P	78	GLU	N-CA-C	7.16	119.08	111.28
4	E	62	GLY	CA-C-N	7.15	129.87	120.28
4	E	62	GLY	C-N-CA	7.15	129.87	120.28
6	G	587	LEU	CA-C-O	-7.15	112.97	120.55
6	G	479	VAL	N-CA-C	7.15	117.94	110.72
3	L	394	PHE	N-CA-C	-7.15	96.90	109.06
2	C	144	HIS	N-CA-C	-7.14	101.74	110.31
3	D	171	GLN	CA-C-N	7.14	129.85	120.28
3	D	171	GLN	C-N-CA	7.14	129.85	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	586	MET	CA-C-O	-7.14	112.85	120.42
7	H	78	GLU	N-CA-C	7.14	119.06	111.28
4	E	181	ALA	CA-C-N	7.13	129.83	120.28
4	E	181	ALA	C-N-CA	7.13	129.83	120.28
3	D	422	LYS	N-CA-C	-7.13	103.75	113.30
3	L	326	ASN	N-CA-C	-7.12	98.76	109.94
3	D	326	ASN	N-CA-C	-7.12	98.76	109.94
3	D	656	ILE	CA-C-N	7.12	129.82	120.28
3	D	656	ILE	C-N-CA	7.12	129.82	120.28
3	L	171	GLN	CA-C-N	7.12	129.82	120.28
3	L	171	GLN	C-N-CA	7.12	129.82	120.28
5	F	38	VAL	CA-C-O	-7.12	113.55	120.95
3	D	394	PHE	N-CA-C	-7.12	96.96	109.06
3	L	155	ASN	CA-C-O	7.11	128.12	119.38
3	D	155	ASN	CA-C-O	7.11	128.12	119.38
2	K	718	LYS	CA-C-N	7.11	130.38	120.29
2	K	718	LYS	C-N-CA	7.11	130.38	120.29
4	M	698	LEU	O-C-N	-7.11	114.85	121.32
4	E	171	PHE	CA-C-N	7.11	129.80	120.28
4	E	171	PHE	C-N-CA	7.11	129.80	120.28
2	C	647	THR	CA-C-N	7.10	129.79	120.28
2	C	647	THR	C-N-CA	7.10	129.79	120.28
2	C	296	VAL	CA-C-N	7.10	133.71	122.21
2	C	296	VAL	C-N-CA	7.10	133.71	122.21
3	L	656	ILE	CA-C-N	7.10	129.79	120.28
3	L	656	ILE	C-N-CA	7.10	129.79	120.28
5	N	38	VAL	CA-C-O	-7.10	113.57	120.95
3	D	195	SER	N-CA-C	7.09	120.50	110.50
2	C	718	LYS	CA-C-N	7.09	130.36	120.29
2	C	718	LYS	C-N-CA	7.09	130.36	120.29
2	K	806	THR	N-CA-C	-7.09	104.63	113.28
6	O	862	PHE	CA-C-N	7.09	131.45	120.75
6	O	862	PHE	C-N-CA	7.09	131.45	120.75
2	C	806	THR	N-CA-C	-7.08	104.64	113.28
2	K	296	VAL	CA-C-N	7.08	133.68	122.21
2	K	296	VAL	C-N-CA	7.08	133.68	122.21
2	K	647	THR	CA-C-N	7.08	129.76	120.28
2	K	647	THR	C-N-CA	7.08	129.76	120.28
4	M	632	SER	N-CA-C	-7.08	98.55	109.52
3	L	118	SER	N-CA-C	-7.07	98.61	109.14
3	L	128	TRP	CA-C-O	7.07	128.04	120.55
2	K	322	GLU	CA-C-O	-7.07	113.19	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	862	PHE	CA-C-N	7.06	131.41	120.75
6	G	862	PHE	C-N-CA	7.06	131.41	120.75
4	M	181	ALA	CA-C-N	7.06	129.74	120.28
4	M	181	ALA	C-N-CA	7.06	129.74	120.28
6	O	240	SER	CA-C-N	7.06	129.74	120.28
6	O	240	SER	C-N-CA	7.06	129.74	120.28
3	L	465	PRO	CA-C-N	7.06	132.50	120.71
3	L	465	PRO	C-N-CA	7.06	132.50	120.71
2	C	322	GLU	CA-C-O	-7.06	113.20	121.46
2	C	482	THR	CA-C-N	7.05	132.65	120.58
2	C	482	THR	C-N-CA	7.05	132.65	120.58
3	D	118	SER	N-CA-C	-7.05	98.63	109.14
6	G	240	SER	CA-C-N	7.05	129.73	120.28
6	G	240	SER	C-N-CA	7.05	129.73	120.28
2	K	482	THR	CA-C-N	7.04	132.62	120.58
2	K	482	THR	C-N-CA	7.04	132.62	120.58
2	C	195	ALA	N-CA-C	-7.04	103.03	111.69
3	D	652	GLY	N-CA-C	-7.04	105.36	115.64
4	M	857	THR	N-CA-C	-7.04	97.93	109.40
2	K	128	VAL	N-CA-C	7.03	117.82	110.72
2	C	128	VAL	N-CA-C	7.03	117.82	110.72
3	L	195	SER	N-CA-C	7.03	120.42	110.50
2	K	195	ALA	N-CA-C	-7.03	103.05	111.69
3	D	465	PRO	CA-C-N	7.02	132.44	120.71
3	D	465	PRO	C-N-CA	7.02	132.44	120.71
4	M	267	VAL	CA-C-N	7.02	129.56	120.44
4	M	267	VAL	C-N-CA	7.02	129.56	120.44
3	L	652	GLY	N-CA-C	-7.01	105.40	115.64
6	O	42	LEU	O-C-N	-7.01	114.69	122.12
2	C	173	SER	CA-C-N	7.01	128.60	119.84
2	C	173	SER	C-N-CA	7.01	128.60	119.84
3	D	128	TRP	CA-C-O	7.01	127.98	120.55
2	K	173	SER	CA-C-N	7.00	128.60	119.84
2	K	173	SER	C-N-CA	7.00	128.60	119.84
3	L	66	VAL	CA-C-N	7.00	129.66	120.28
3	L	66	VAL	C-N-CA	7.00	129.66	120.28
3	D	66	VAL	CA-C-N	7.00	129.66	120.28
3	D	66	VAL	C-N-CA	7.00	129.66	120.28
3	L	630	PHE	CA-C-N	7.00	130.23	120.29
3	L	630	PHE	C-N-CA	7.00	130.23	120.29
6	G	42	LEU	O-C-N	-7.00	114.70	122.12
2	K	396	ILE	N-CA-C	7.00	122.75	112.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	267	VAL	CA-C-N	7.00	129.53	120.44
4	E	267	VAL	C-N-CA	7.00	129.53	120.44
3	D	630	PHE	CA-C-N	6.99	130.22	120.29
3	D	630	PHE	C-N-CA	6.99	130.22	120.29
6	O	318	LEU	CA-C-N	6.99	129.65	120.28
6	O	318	LEU	C-N-CA	6.99	129.65	120.28
3	L	526	THR	N-CA-C	-6.98	98.56	108.96
2	C	280	LYS	CA-C-O	6.98	126.51	118.55
6	G	320	ASP	CA-C-N	6.97	129.51	120.44
6	G	320	ASP	C-N-CA	6.97	129.51	120.44
6	G	419	ASP	CA-C-O	6.97	127.94	120.55
6	G	952	ALA	CA-C-O	6.97	127.94	120.55
3	L	621	VAL	CA-C-N	6.97	129.62	120.28
3	L	621	VAL	C-N-CA	6.97	129.62	120.28
6	G	503	GLU	N-CA-C	-6.96	95.97	110.80
6	O	47	ILE	CA-C-O	-6.96	113.71	120.95
4	M	131	ILE	CA-C-N	6.96	130.75	120.87
4	M	131	ILE	C-N-CA	6.96	130.75	120.87
6	O	419	ASP	CA-C-O	6.96	127.93	120.55
6	G	318	LEU	CA-C-N	6.96	129.61	120.28
6	G	318	LEU	C-N-CA	6.96	129.61	120.28
2	K	280	LYS	CA-C-O	6.96	126.48	118.55
6	O	503	GLU	N-CA-C	-6.96	95.98	110.80
2	C	396	ILE	N-CA-C	6.95	122.69	112.61
4	M	663	PHE	N-CA-C	-6.95	97.08	108.41
3	D	526	THR	N-CA-C	-6.95	98.61	108.96
2	K	559	GLY	CA-C-O	-6.95	114.87	121.19
6	O	320	ASP	CA-C-N	6.95	129.47	120.44
6	O	320	ASP	C-N-CA	6.95	129.47	120.44
6	O	952	ALA	CA-C-O	6.95	127.91	120.55
6	G	47	ILE	CA-C-O	-6.95	113.73	120.95
4	M	149	VAL	CA-C-N	6.95	130.69	120.90
4	M	149	VAL	C-N-CA	6.95	130.69	120.90
2	K	117	ILE	N-CA-C	-6.94	98.12	108.12
2	C	117	ILE	N-CA-C	-6.94	98.12	108.12
4	E	131	ILE	CA-C-N	6.94	130.73	120.87
4	E	131	ILE	C-N-CA	6.94	130.73	120.87
6	O	150	TYR	N-CA-C	-6.93	103.65	111.14
3	D	621	VAL	CA-C-N	6.93	129.56	120.28
3	D	621	VAL	C-N-CA	6.93	129.56	120.28
2	C	323	ARG	CA-C-N	6.92	127.10	120.31
2	C	323	ARG	C-N-CA	6.92	127.10	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	323	ARG	CA-C-N	6.92	127.09	120.31
2	K	323	ARG	C-N-CA	6.92	127.09	120.31
7	P	90	ILE	O-C-N	-6.92	115.99	120.42
4	E	149	VAL	CA-C-N	6.92	130.65	120.90
4	E	149	VAL	C-N-CA	6.92	130.65	120.90
6	O	800	ILE	O-C-N	-6.91	115.71	123.10
4	E	348	LEU	CA-C-N	6.90	129.53	120.28
4	E	348	LEU	C-N-CA	6.90	129.53	120.28
4	M	609	ARG	N-CA-C	-6.90	103.76	111.28
4	E	510	LEU	CA-C-O	-6.90	113.57	120.82
3	D	369	VAL	N-CA-C	-6.89	98.46	108.11
3	L	152	PRO	N-CA-C	-6.89	106.71	114.92
4	E	391	PRO	N-CA-C	6.89	126.67	112.47
2	C	559	GLY	CA-C-O	-6.89	114.92	121.19
3	D	152	PRO	N-CA-C	-6.89	106.72	114.92
4	M	510	LEU	CA-C-O	-6.88	113.59	120.82
6	G	945	ARG	CA-C-O	6.88	128.68	121.38
7	H	270	ASN	N-CA-C	-6.88	103.86	111.36
4	M	348	LEU	CA-C-N	6.88	129.49	120.28
4	M	348	LEU	C-N-CA	6.88	129.49	120.28
4	M	605	VAL	CA-C-N	6.87	131.73	120.94
4	M	605	VAL	C-N-CA	6.87	131.73	120.94
4	M	391	PRO	N-CA-C	6.87	126.62	112.47
6	G	800	ILE	O-C-N	-6.87	115.75	123.10
7	Q	270	ASN	N-CA-C	-6.87	103.88	111.36
6	G	318	LEU	N-CA-C	6.87	125.42	110.80
6	O	945	ARG	CA-C-O	6.87	128.66	121.38
5	F	121	LEU	CA-C-O	-6.86	113.61	120.82
6	O	318	LEU	N-CA-C	6.86	125.42	110.80
6	G	150	TYR	N-CA-C	-6.86	103.73	111.14
6	G	953	LEU	CA-C-O	-6.86	113.28	120.55
7	H	90	ILE	O-C-N	-6.85	116.03	120.42
6	O	750	ASN	CA-C-N	6.85	131.85	122.19
6	O	750	ASN	C-N-CA	6.85	131.85	122.19
3	L	369	VAL	N-CA-C	-6.85	98.52	108.11
6	G	497	ALA	CA-C-O	-6.84	113.17	120.42
2	C	608	TYR	CA-C-N	6.84	129.34	120.44
2	C	608	TYR	C-N-CA	6.84	129.34	120.44
2	C	652	ALA	N-CA-C	6.84	118.74	111.28
4	M	285	LEU	O-C-N	-6.84	114.11	122.25
4	M	775	ALA	CA-C-N	6.84	129.33	120.44
4	M	775	ALA	C-N-CA	6.84	129.33	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	630	GLN	N-CA-C	-6.83	96.25	110.80
2	K	630	GLN	N-CA-C	-6.83	96.25	110.80
6	O	402	ILE	CA-C-O	-6.83	114.11	118.69
4	E	285	LEU	O-C-N	-6.83	114.12	122.25
2	K	608	TYR	CA-C-N	6.83	129.32	120.44
2	K	608	TYR	C-N-CA	6.83	129.32	120.44
4	M	354	GLU	CA-C-N	6.83	129.32	120.44
4	M	354	GLU	C-N-CA	6.83	129.32	120.44
5	N	121	LEU	CA-C-O	-6.82	113.65	120.82
4	M	270	ALA	N-CA-C	6.82	118.50	111.14
2	K	652	ALA	N-CA-C	6.82	118.71	111.28
4	M	853	THR	N-CA-C	-6.82	98.73	109.50
4	E	270	ALA	N-CA-C	6.81	118.50	111.14
6	G	402	ILE	CA-C-O	-6.81	114.13	118.69
6	G	750	ASN	CA-C-N	6.81	131.79	122.19
6	G	750	ASN	C-N-CA	6.81	131.79	122.19
3	L	67	ALA	CA-C-N	6.80	129.40	120.28
3	L	67	ALA	C-N-CA	6.80	129.40	120.28
6	O	953	LEU	CA-C-O	-6.80	113.34	120.55
6	O	540	PRO	N-CA-C	6.80	119.00	110.70
2	C	739	LEU	N-CA-C	-6.80	99.88	110.42
7	P	270	ASN	N-CA-C	-6.80	103.95	111.36
6	O	943	ARG	N-CA-C	-6.79	98.17	109.24
2	C	243	ASP	N-CA-C	-6.79	98.77	109.50
6	G	229	GLU	CA-C-N	6.79	134.51	121.54
6	G	229	GLU	C-N-CA	6.79	134.51	121.54
6	G	851	THR	N-CA-C	-6.79	100.17	109.95
3	L	396	TRP	N-CA-C	-6.79	99.53	110.32
6	O	229	GLU	CA-C-N	6.79	134.50	121.54
6	O	229	GLU	C-N-CA	6.79	134.50	121.54
2	C	228	GLN	CA-C-O	6.79	129.40	121.46
3	D	302	GLU	N-CA-C	-6.79	105.56	114.31
2	K	739	LEU	N-CA-C	-6.79	99.90	110.42
6	O	497	ALA	CA-C-O	-6.79	113.23	120.42
5	F	114	LEU	CA-C-O	-6.78	113.70	120.82
6	O	170	ILE	CA-C-O	-6.78	110.87	119.95
6	O	558	ALA	N-CA-C	-6.78	96.37	110.80
4	E	354	GLU	CA-C-N	6.77	129.25	120.44
4	E	354	GLU	C-N-CA	6.77	129.25	120.44
2	K	228	GLN	CA-C-O	6.77	129.38	121.46
4	E	258	CYS	N-CA-C	-6.77	100.20	109.95
6	G	493	ILE	CA-C-O	-6.77	113.91	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	540	PRO	N-CA-C	6.76	118.95	110.70
5	N	114	LEU	CA-C-O	-6.76	113.72	120.82
3	D	396	TRP	N-CA-C	-6.76	99.57	110.32
6	G	943	ARG	N-CA-C	-6.76	98.22	109.24
6	O	851	THR	N-CA-C	-6.76	100.21	109.95
6	G	170	ILE	CA-C-O	-6.76	110.89	119.95
3	D	67	ALA	CA-C-N	6.76	129.34	120.28
3	D	67	ALA	C-N-CA	6.76	129.34	120.28
2	K	243	ASP	N-CA-C	-6.75	98.83	109.50
4	M	258	CYS	N-CA-C	-6.75	100.22	109.95
6	O	493	ILE	CA-C-O	-6.75	113.93	120.95
6	G	558	ALA	N-CA-C	-6.75	96.42	110.80
3	L	613	ILE	N-CA-C	-6.75	94.31	108.88
4	M	497	LYS	CA-C-N	6.75	129.32	120.28
4	M	497	LYS	C-N-CA	6.75	129.32	120.28
6	G	581	PHE	O-C-N	-6.74	115.52	123.41
2	C	770	GLU	CA-C-N	6.74	129.31	120.28
2	C	770	GLU	C-N-CA	6.74	129.31	120.28
3	D	454	ASN	CA-C-N	6.74	131.96	122.46
3	D	454	ASN	C-N-CA	6.74	131.96	122.46
2	K	608	TYR	N-CA-C	-6.74	105.69	114.04
3	D	613	ILE	N-CA-C	-6.74	94.33	108.88
2	K	226	ASP	N-CA-C	-6.73	96.46	110.80
2	C	226	ASP	N-CA-C	-6.73	96.46	110.80
4	E	497	LYS	CA-C-N	6.73	129.29	120.28
4	E	497	LYS	C-N-CA	6.73	129.29	120.28
6	O	43	LYS	CA-C-O	-6.72	113.76	120.82
2	C	608	TYR	N-CA-C	-6.72	105.71	114.04
2	C	693	CYS	O-C-N	6.72	129.35	122.09
7	H	70	THR	N-CA-C	-6.72	98.86	109.07
4	M	447	GLU	CA-C-N	6.71	134.36	121.54
4	M	447	GLU	C-N-CA	6.71	134.36	121.54
6	G	856	ARG	CA-C-N	6.71	129.17	120.44
6	G	856	ARG	C-N-CA	6.71	129.17	120.44
3	L	454	ASN	CA-C-N	6.71	131.92	122.46
3	L	454	ASN	C-N-CA	6.71	131.92	122.46
6	O	581	PHE	O-C-N	-6.71	115.56	123.41
4	E	447	GLU	CA-C-N	6.71	134.35	121.54
4	E	447	GLU	C-N-CA	6.71	134.35	121.54
6	O	856	ARG	CA-C-N	6.71	129.16	120.44
6	O	856	ARG	C-N-CA	6.71	129.16	120.44
2	K	693	CYS	O-C-N	6.71	129.33	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	770	GLU	CA-C-N	6.71	129.26	120.28
2	K	770	GLU	C-N-CA	6.71	129.26	120.28
6	G	329	LEU	N-CA-C	-6.70	105.01	113.72
3	L	695	ASP	CA-C-N	6.69	129.25	120.28
3	L	695	ASP	C-N-CA	6.69	129.25	120.28
6	O	329	LEU	N-CA-C	-6.69	105.02	113.72
7	Q	300	MET	CA-C-N	-6.69	114.20	123.10
7	Q	300	MET	C-N-CA	-6.69	114.20	123.10
2	C	172	LEU	CA-C-N	6.69	129.69	120.39
2	C	172	LEU	C-N-CA	6.69	129.69	120.39
4	M	713	PRO	N-CA-C	-6.69	101.41	111.57
2	K	172	LEU	CA-C-N	6.69	129.68	120.39
2	K	172	LEU	C-N-CA	6.69	129.68	120.39
3	L	1	MET	O-C-N	-6.68	112.31	123.00
7	P	70	THR	N-CA-C	-6.68	98.92	109.07
7	H	77	LEU	CA-C-N	6.68	129.23	120.28
7	H	77	LEU	C-N-CA	6.68	129.23	120.28
4	M	420	CYS	O-C-N	6.68	128.95	122.07
6	G	187	ALA	CA-C-N	6.68	130.07	120.79
6	G	187	ALA	C-N-CA	6.68	130.07	120.79
3	D	1	MET	O-C-N	-6.67	112.32	123.00
3	D	695	ASP	CA-C-N	6.67	129.22	120.28
3	D	695	ASP	C-N-CA	6.67	129.22	120.28
4	E	420	CYS	O-C-N	6.67	128.94	122.07
6	O	187	ALA	CA-C-N	6.67	130.06	120.79
6	O	187	ALA	C-N-CA	6.67	130.06	120.79
2	K	323	ARG	O-C-N	-6.67	113.66	121.32
2	C	323	ARG	O-C-N	-6.66	113.66	121.32
6	G	43	LYS	CA-C-O	-6.66	113.83	120.82
3	L	437	PHE	CA-C-O	-6.66	114.01	121.00
4	E	112	ASP	CA-C-N	6.65	129.19	120.28
4	E	112	ASP	C-N-CA	6.65	129.19	120.28
5	N	56	ASP	CA-C-O	6.65	127.88	120.43
7	P	77	LEU	CA-C-N	6.65	129.19	120.28
7	P	77	LEU	C-N-CA	6.65	129.19	120.28
5	F	56	ASP	CA-C-O	6.65	127.88	120.43
4	M	834	PHE	CA-C-O	-6.65	113.88	121.72
6	G	747	VAL	N-CA-C	-6.65	98.89	108.53
2	K	255	ALA	CA-C-O	6.65	128.25	120.14
6	O	314	HIS	N-CA-C	-6.64	105.74	114.31
2	C	96	ILE	N-CA-C	-6.64	97.62	107.51
4	M	112	ASP	CA-C-N	6.63	129.16	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	112	ASP	C-N-CA	6.63	129.16	120.28
4	M	619	ALA	CA-C-O	6.63	127.58	120.55
6	G	314	HIS	N-CA-C	-6.63	105.76	114.31
7	H	300	MET	CA-C-N	-6.63	114.29	123.10
7	H	300	MET	C-N-CA	-6.63	114.29	123.10
2	K	96	ILE	N-CA-C	-6.62	97.64	107.51
2	C	94	ASP	CA-C-N	6.62	131.89	121.56
2	C	94	ASP	C-N-CA	6.62	131.89	121.56
6	O	747	VAL	N-CA-C	-6.62	98.93	108.53
2	C	255	ALA	CA-C-O	6.62	128.22	120.14
3	L	58	LEU	CA-C-N	6.62	128.12	119.84
3	L	58	LEU	C-N-CA	6.62	128.12	119.84
5	N	66	THR	N-CA-C	-6.62	99.23	109.76
4	E	92	ILE	CA-C-O	-6.62	113.83	120.85
7	P	72	LYS	O-C-N	-6.62	115.49	123.10
6	O	520	THR	CA-C-N	6.62	129.15	120.28
6	O	520	THR	C-N-CA	6.62	129.15	120.28
3	D	158	PHE	N-CA-C	-6.61	99.11	108.96
2	K	94	ASP	CA-C-N	6.61	131.88	121.56
2	K	94	ASP	C-N-CA	6.61	131.88	121.56
6	G	388	HIS	CA-C-N	6.61	129.80	120.28
6	G	388	HIS	C-N-CA	6.61	129.80	120.28
7	P	300	MET	CA-C-N	-6.61	114.31	123.10
7	P	300	MET	C-N-CA	-6.61	114.31	123.10
3	D	58	LEU	CA-C-N	6.61	128.10	119.84
3	D	58	LEU	C-N-CA	6.61	128.10	119.84
4	M	92	ILE	CA-C-O	-6.61	113.85	120.85
5	F	66	THR	N-CA-C	-6.60	99.26	109.76
6	G	381	GLN	CA-C-N	6.60	129.12	120.28
6	G	381	GLN	C-N-CA	6.60	129.12	120.28
7	H	41	ASN	CA-C-N	6.60	134.15	121.54
7	H	41	ASN	C-N-CA	6.60	134.15	121.54
6	G	520	THR	CA-C-N	6.60	129.12	120.28
6	G	520	THR	C-N-CA	6.60	129.12	120.28
3	L	557	LEU	N-CA-C	-6.60	98.94	109.76
3	D	557	LEU	N-CA-C	-6.60	98.94	109.76
6	G	449	ILE	O-C-N	-6.59	115.44	123.09
2	C	319	LEU	CA-C-N	6.59	134.07	122.67
2	C	319	LEU	C-N-CA	6.59	134.07	122.67
3	D	437	PHE	CA-C-O	-6.59	114.08	121.00
6	O	859	TRP	CA-C-O	6.59	127.74	120.82
2	K	319	LEU	CA-C-N	6.59	134.07	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	319	LEU	C-N-CA	6.59	134.07	122.67
2	C	754	GLN	CA-C-N	6.59	129.65	120.29
2	C	754	GLN	C-N-CA	6.59	129.65	120.29
4	E	41	PRO	CA-C-N	6.59	129.00	120.44
4	E	41	PRO	C-N-CA	6.59	129.00	120.44
6	G	859	TRP	CA-C-O	6.59	127.74	120.82
4	M	608	THR	CA-C-N	6.59	129.11	120.28
4	M	608	THR	C-N-CA	6.59	129.11	120.28
2	C	740	GLY	N-CA-C	6.58	121.86	113.24
6	O	449	ILE	CA-C-O	6.58	127.14	120.96
7	H	72	LYS	O-C-N	-6.58	115.54	123.10
2	K	754	GLN	CA-C-N	6.58	129.63	120.29
2	K	754	GLN	C-N-CA	6.58	129.63	120.29
4	M	41	PRO	CA-C-N	6.58	128.99	120.44
4	M	41	PRO	C-N-CA	6.58	128.99	120.44
4	M	298	SER	N-CA-C	6.58	122.59	113.45
7	P	41	ASN	CA-C-N	6.58	134.10	121.54
7	P	41	ASN	C-N-CA	6.58	134.10	121.54
6	O	388	HIS	CA-C-N	6.57	129.75	120.28
6	O	388	HIS	C-N-CA	6.57	129.75	120.28
2	K	292	ASP	CA-C-N	6.57	134.09	121.54
2	K	292	ASP	C-N-CA	6.57	134.09	121.54
2	C	136	HIS	CA-C-N	6.57	134.08	121.54
2	C	136	HIS	C-N-CA	6.57	134.08	121.54
2	C	292	ASP	CA-C-N	6.56	134.07	121.54
2	C	292	ASP	C-N-CA	6.56	134.07	121.54
4	E	322	VAL	CA-C-O	-6.56	113.55	120.57
7	H	114	ASP	CA-C-N	6.56	129.36	120.44
7	H	114	ASP	C-N-CA	6.56	129.36	120.44
4	M	441	GLU	CA-C-N	6.55	134.06	121.54
4	M	441	GLU	C-N-CA	6.55	134.06	121.54
3	L	158	PHE	N-CA-C	-6.55	99.20	108.96
4	E	441	GLU	CA-C-N	6.55	134.05	121.54
4	E	441	GLU	C-N-CA	6.55	134.05	121.54
6	G	234	VAL	CA-C-O	-6.55	113.78	121.05
2	K	136	HIS	CA-C-N	6.55	134.04	121.54
2	K	136	HIS	C-N-CA	6.55	134.04	121.54
2	K	740	GLY	N-CA-C	6.55	121.82	113.24
6	O	234	VAL	CA-C-O	-6.55	113.78	121.05
4	M	322	VAL	CA-C-O	-6.54	113.57	120.57
3	D	698	GLY	CA-C-N	6.54	129.05	120.28
3	D	698	GLY	C-N-CA	6.54	129.05	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	415	ARG	CA-C-N	6.54	129.05	120.28
4	M	415	ARG	C-N-CA	6.54	129.05	120.28
6	O	381	GLN	CA-C-N	6.54	129.05	120.28
6	O	381	GLN	C-N-CA	6.54	129.05	120.28
4	E	415	ARG	CA-C-N	6.54	129.05	120.28
4	E	415	ARG	C-N-CA	6.54	129.05	120.28
3	L	698	GLY	CA-C-N	6.54	129.05	120.28
3	L	698	GLY	C-N-CA	6.54	129.05	120.28
4	E	298	SER	N-CA-C	6.54	122.54	113.45
6	O	881	LEU	O-C-N	6.54	128.80	122.07
2	C	783	GLU	CA-C-N	6.53	134.02	121.54
2	C	783	GLU	C-N-CA	6.53	134.02	121.54
7	P	114	ASP	CA-C-N	6.53	129.32	120.44
7	P	114	ASP	C-N-CA	6.53	129.32	120.44
3	D	785	ALA	CA-C-N	6.53	129.03	120.28
3	D	785	ALA	C-N-CA	6.53	129.03	120.28
6	G	841	ILE	CA-C-N	6.52	129.67	120.28
6	G	841	ILE	C-N-CA	6.52	129.67	120.28
3	L	402	GLU	N-CA-C	-6.52	97.97	109.06
6	G	924	VAL	O-C-N	6.52	130.02	123.18
7	P	361	VAL	CA-C-N	-6.52	112.89	122.86
7	P	361	VAL	C-N-CA	-6.52	112.89	122.86
6	O	841	ILE	CA-C-N	6.51	129.66	120.28
6	O	841	ILE	C-N-CA	6.51	129.66	120.28
4	E	255	ILE	CA-C-N	6.51	133.97	121.54
4	E	255	ILE	C-N-CA	6.51	133.97	121.54
4	M	614	GLN	O-C-N	-6.51	115.22	122.12
3	D	702	LEU	O-C-N	6.51	129.12	122.09
4	M	178	VAL	CA-C-N	6.51	129.29	120.44
4	M	178	VAL	C-N-CA	6.51	129.29	120.44
2	C	218	PRO	N-CA-C	-6.50	103.69	114.75
3	D	402	GLU	N-CA-C	-6.50	98.01	109.06
2	K	218	PRO	N-CA-C	-6.50	103.70	114.75
6	O	105	TYR	CA-C-O	6.50	127.26	119.59
5	F	18	ILE	N-CA-C	-6.50	98.15	107.77
4	E	178	VAL	CA-C-N	6.50	129.28	120.44
4	E	178	VAL	C-N-CA	6.50	129.28	120.44
5	N	18	ILE	N-CA-C	-6.50	98.16	107.77
4	E	450	VAL	CA-C-O	-6.50	114.19	120.95
7	H	361	VAL	CA-C-N	-6.50	112.92	122.86
7	H	361	VAL	C-N-CA	-6.50	112.92	122.86
3	L	702	LEU	O-C-N	6.50	129.10	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	361	VAL	CA-C-N	-6.49	112.92	122.86
7	Q	361	VAL	C-N-CA	-6.49	112.92	122.86
6	G	881	LEU	O-C-N	6.49	128.76	122.07
4	M	255	ILE	CA-C-N	6.49	133.94	121.54
4	M	255	ILE	C-N-CA	6.49	133.94	121.54
4	M	840	ILE	N-CA-C	-6.49	98.77	108.12
6	G	105	TYR	CA-C-O	6.49	127.25	119.59
2	K	783	GLU	CA-C-N	6.48	133.92	121.54
2	K	783	GLU	C-N-CA	6.48	133.92	121.54
3	L	785	ALA	CA-C-N	6.48	128.97	120.28
3	L	785	ALA	C-N-CA	6.48	128.97	120.28
2	C	733	TYR	CA-C-N	6.48	128.86	120.44
2	C	733	TYR	C-N-CA	6.48	128.86	120.44
6	O	561	LEU	N-CA-C	-6.48	104.22	111.28
2	K	733	TYR	CA-C-N	6.48	128.86	120.44
2	K	733	TYR	C-N-CA	6.48	128.86	120.44
4	M	191	MET	O-C-N	6.48	129.09	122.09
3	L	578	LYS	N-CA-C	-6.48	104.07	112.23
7	P	57	VAL	N-CA-C	-6.48	98.30	108.86
3	L	617	GLN	CA-C-O	-6.47	113.69	120.55
4	E	191	MET	O-C-N	6.47	129.08	122.09
7	H	57	VAL	N-CA-C	-6.47	98.31	108.86
4	M	450	VAL	CA-C-O	-6.47	114.22	120.95
3	D	578	LYS	N-CA-C	-6.47	104.08	112.23
4	M	666	THR	N-CA-C	-6.47	98.44	109.24
6	O	924	VAL	O-C-N	6.47	129.97	123.18
6	G	561	LEU	N-CA-C	-6.46	104.23	111.28
6	G	479	VAL	CA-C-N	6.46	130.13	120.31
6	G	479	VAL	C-N-CA	6.46	130.13	120.31
6	O	223	LEU	CA-C-O	-6.46	113.70	120.55
7	P	457	SER	N-CA-C	-6.46	100.92	110.48
7	H	457	SER	N-CA-C	-6.46	100.93	110.48
7	Q	457	SER	N-CA-C	-6.45	100.93	110.48
6	O	435	ARG	N-CA-C	-6.45	101.87	111.81
6	G	338	LYS	CA-C-O	-6.45	114.06	120.70
6	G	435	ARG	N-CA-C	-6.45	101.88	111.81
2	K	699	ASN	CA-C-N	6.45	129.45	120.29
2	K	699	ASN	C-N-CA	6.45	129.45	120.29
3	D	498	ALA	N-CA-C	6.45	117.97	111.07
3	D	617	GLN	CA-C-O	-6.45	113.72	120.55
4	E	248	ASP	O-C-N	-6.44	114.61	122.34
7	P	83	LEU	CA-C-N	6.44	129.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	83	LEU	C-N-CA	6.44	129.20	120.44
6	G	223	LEU	CA-C-O	-6.44	113.72	120.55
7	H	83	LEU	CA-C-N	6.44	129.20	120.44
7	H	83	LEU	C-N-CA	6.44	129.20	120.44
4	M	649	ARG	N-CA-C	-6.44	98.40	108.90
6	O	479	VAL	CA-C-N	6.44	130.09	120.31
6	O	479	VAL	C-N-CA	6.44	130.09	120.31
3	D	45	GLU	N-CA-C	6.44	119.25	111.40
3	L	498	ALA	N-CA-C	6.44	117.96	111.07
4	M	424	ILE	N-CA-C	6.44	117.19	110.62
5	F	84	TYR	CA-C-O	6.43	126.84	119.18
2	C	699	ASN	CA-C-N	6.43	129.42	120.29
2	C	699	ASN	C-N-CA	6.43	129.42	120.29
4	M	138	GLN	CA-C-N	6.43	128.89	120.28
4	M	138	GLN	C-N-CA	6.43	128.89	120.28
3	D	196	GLY	CA-C-O	6.42	131.75	120.57
4	E	424	ILE	N-CA-C	6.42	117.17	110.62
6	O	338	LYS	CA-C-O	-6.42	114.09	120.70
2	C	187	VAL	N-CA-C	-6.42	105.42	112.80
2	C	693	CYS	CA-C-N	6.42	129.52	120.28
2	C	693	CYS	C-N-CA	6.42	129.52	120.28
4	M	248	ASP	O-C-N	-6.42	114.64	122.34
5	F	138	ASP	N-CA-C	-6.41	98.44	109.15
3	L	45	GLU	N-CA-C	6.41	119.22	111.40
2	C	628	TYR	N-CA-C	-6.41	104.94	112.89
6	G	37	SER	CA-C-N	6.41	129.39	120.29
6	G	37	SER	C-N-CA	6.41	129.39	120.29
2	C	105	TYR	N-CA-C	-6.41	95.65	109.81
2	K	105	TYR	N-CA-C	-6.41	95.65	109.81
3	L	544	ASN	N-CA-C	-6.41	99.67	109.41
3	D	55	VAL	N-CA-C	6.41	116.55	110.53
6	G	365	ILE	CA-C-O	-6.41	113.48	121.11
6	O	169	LEU	N-CA-C	-6.41	97.15	110.80
6	G	218	THR	N-CA-C	6.41	118.26	111.28
3	L	637	VAL	O-C-N	-6.41	115.23	121.83
3	L	392	GLN	N-CA-C	-6.40	104.16	112.23
6	O	67	LEU	N-CA-C	6.40	123.96	109.81
3	L	82	ARG	N-CA-C	-6.40	98.97	109.40
5	N	84	TYR	CA-C-O	6.40	126.80	119.18
3	D	544	ASN	N-CA-C	-6.40	99.68	109.41
4	E	138	GLN	CA-C-N	6.40	128.85	120.28
4	E	138	GLN	C-N-CA	6.40	128.85	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	67	LEU	N-CA-C	6.40	123.95	109.81
2	K	187	VAL	N-CA-C	-6.40	105.44	112.80
3	L	196	GLY	CA-C-O	6.40	131.71	120.57
2	K	693	CYS	CA-C-N	6.40	129.49	120.28
2	K	693	CYS	C-N-CA	6.40	129.49	120.28
5	N	138	ASP	N-CA-C	-6.39	98.47	109.15
3	D	637	VAL	O-C-N	-6.39	115.25	121.83
6	O	365	ILE	CA-C-O	-6.39	113.51	121.11
5	F	133	VAL	N-CA-C	-6.39	99.03	109.12
6	G	169	LEU	N-CA-C	-6.39	97.19	110.80
3	L	55	VAL	N-CA-C	6.39	116.53	110.53
3	L	775	GLU	O-C-N	6.39	128.89	122.12
4	E	360	LEU	CA-C-O	-6.38	113.78	120.55
6	G	948	SER	N-CA-C	-6.38	103.62	112.30
5	N	133	VAL	N-CA-C	-6.38	99.03	109.12
2	K	762	ALA	CA-C-N	6.38	128.83	120.28
2	K	762	ALA	C-N-CA	6.38	128.83	120.28
3	D	82	ARG	N-CA-C	-6.38	99.00	109.40
6	O	517	GLU	CA-C-N	6.38	128.74	120.44
6	O	517	GLU	C-N-CA	6.38	128.74	120.44
6	O	948	SER	N-CA-C	-6.37	103.63	112.30
6	O	953	LEU	CA-C-N	6.37	128.82	120.28
6	O	953	LEU	C-N-CA	6.37	128.82	120.28
3	D	392	GLN	N-CA-C	-6.37	104.20	112.23
6	G	953	LEU	CA-C-N	6.37	128.81	120.28
6	G	953	LEU	C-N-CA	6.37	128.81	120.28
3	L	148	ILE	O-C-N	6.37	129.91	123.10
4	M	360	LEU	CA-C-O	-6.37	113.80	120.55
2	C	43	LEU	CA-C-N	6.37	128.65	120.88
2	C	43	LEU	C-N-CA	6.37	128.65	120.88
3	D	148	ILE	O-C-N	6.37	129.91	123.10
2	K	628	TYR	N-CA-C	-6.37	105.00	112.89
4	M	207	ASP	N-CA-C	-6.37	99.31	108.60
6	G	264	ALA	CA-C-N	6.36	128.81	120.28
6	G	264	ALA	C-N-CA	6.36	128.81	120.28
5	N	51	LYS	O-C-N	6.36	128.96	122.09
5	N	76	TYR	N-CA-C	-6.36	98.61	109.24
6	O	264	ALA	CA-C-N	6.36	128.81	120.28
6	O	264	ALA	C-N-CA	6.36	128.81	120.28
4	E	77	PHE	CA-C-N	6.36	128.81	120.28
4	E	77	PHE	C-N-CA	6.36	128.81	120.28
4	M	77	PHE	CA-C-N	6.36	128.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	77	PHE	C-N-CA	6.36	128.81	120.28
6	O	37	SER	CA-C-N	6.36	129.32	120.29
6	O	37	SER	C-N-CA	6.36	129.32	120.29
3	D	78	ASP	N-CA-C	-6.36	105.34	113.23
4	E	446	CYS	N-CA-C	-6.36	105.45	113.72
5	F	51	LYS	O-C-N	6.36	128.96	122.09
4	M	664	ASP	N-CA-C	-6.36	98.36	108.73
2	C	700	PHE	N-CA-C	-6.36	104.43	111.36
6	O	860	ALA	O-C-N	6.36	128.86	122.12
2	C	571	THR	O-C-N	6.36	129.40	122.15
2	K	168	ARG	N-CA-C	-6.36	97.26	110.80
5	F	76	TYR	N-CA-C	-6.36	98.63	109.24
3	L	78	ASP	N-CA-C	-6.36	105.35	113.23
4	M	446	CYS	N-CA-C	-6.36	105.46	113.72
6	G	517	GLU	CA-C-N	6.35	128.70	120.44
6	G	517	GLU	C-N-CA	6.35	128.70	120.44
6	G	860	ALA	O-C-N	6.35	128.85	122.12
2	K	571	THR	O-C-N	6.35	129.39	122.15
2	C	168	ARG	N-CA-C	-6.35	97.27	110.80
3	D	354	TYR	N-CA-C	-6.35	101.53	110.29
4	E	428	ASN	N-CA-C	6.35	120.49	112.87
7	H	374	ILE	O-C-N	6.35	125.37	121.37
6	G	819	VAL	CA-C-O	-6.35	112.96	121.02
3	L	354	TYR	N-CA-C	-6.35	101.53	110.29
4	M	810	MET	CA-C-O	-6.35	113.36	120.66
4	E	207	ASP	N-CA-C	-6.35	99.33	108.60
6	O	218	THR	N-CA-C	6.34	118.19	111.28
2	K	700	PHE	N-CA-C	-6.34	104.45	111.36
2	K	43	LEU	CA-C-N	6.34	128.61	120.88
2	K	43	LEU	C-N-CA	6.34	128.61	120.88
3	D	775	GLU	O-C-N	6.33	128.83	122.12
6	O	819	VAL	CA-C-O	-6.33	112.98	121.02
2	C	214	HIS	N-CA-C	-6.33	102.08	109.93
6	G	155	ALA	N-CA-C	6.33	117.84	111.07
2	K	497	SER	CA-C-N	6.33	133.63	121.54
2	K	497	SER	C-N-CA	6.33	133.63	121.54
2	K	766	GLY	N-CA-C	-6.33	106.17	115.72
6	O	155	ALA	N-CA-C	6.33	117.84	111.07
6	G	196	MET	CA-C-N	6.32	133.62	121.54
6	G	196	MET	C-N-CA	6.32	133.62	121.54
6	O	128	LYS	CA-C-O	-6.32	112.16	119.56
2	K	432	MET	N-CA-C	-6.32	103.07	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	487	VAL	N-CA-C	6.32	117.10	110.72
2	C	497	SER	CA-C-N	6.32	133.60	121.54
2	C	497	SER	C-N-CA	6.32	133.60	121.54
2	C	762	ALA	CA-C-N	6.32	128.74	120.28
2	C	762	ALA	C-N-CA	6.32	128.74	120.28
3	D	57	ASP	N-CA-C	-6.32	104.84	113.30
2	C	432	MET	N-CA-C	-6.31	103.08	113.50
6	O	196	MET	CA-C-N	6.31	133.60	121.54
6	O	196	MET	C-N-CA	6.31	133.60	121.54
4	E	487	VAL	N-CA-C	6.31	117.09	110.72
2	C	766	GLY	N-CA-C	-6.31	106.19	115.72
6	O	118	GLY	CA-C-N	6.31	128.73	120.28
6	O	118	GLY	C-N-CA	6.31	128.73	120.28
6	O	395	PRO	CA-C-N	6.31	128.74	120.28
6	O	395	PRO	C-N-CA	6.31	128.74	120.28
2	K	677	LEU	CA-C-O	-6.31	113.73	120.42
4	M	428	ASN	N-CA-C	6.31	120.44	112.87
2	C	574	LYS	N-CA-C	-6.30	98.10	108.76
7	P	374	ILE	O-C-N	6.30	125.34	121.37
6	G	118	GLY	CA-C-N	6.30	128.72	120.28
6	G	118	GLY	C-N-CA	6.30	128.72	120.28
3	L	169	VAL	N-CA-C	-6.30	99.35	108.36
4	M	455	ILE	CA-C-N	6.30	128.63	120.44
4	M	455	ILE	C-N-CA	6.30	128.63	120.44
6	G	128	LYS	CA-C-O	-6.30	112.19	119.56
3	L	57	ASP	N-CA-C	-6.30	104.86	113.30
6	G	395	PRO	CA-C-N	6.29	128.71	120.28
6	G	395	PRO	C-N-CA	6.29	128.71	120.28
3	L	100	ASP	N-CA-C	-6.29	99.41	108.60
4	E	108	SER	CA-C-O	-6.29	113.89	120.55
6	O	316	ARG	O-C-N	-6.29	115.82	123.30
2	C	677	LEU	CA-C-O	-6.29	113.76	120.42
2	K	214	HIS	N-CA-C	-6.28	102.14	109.93
4	M	670	ASN	O-C-N	6.28	129.31	122.15
6	O	137	MET	O-C-N	-6.28	115.94	120.27
4	M	682	GLU	CA-C-O	-6.28	113.72	119.62
6	G	497	ALA	N-CA-C	6.28	118.20	111.36
6	G	316	ARG	O-C-N	-6.28	115.83	123.30
6	G	865	GLU	CA-C-N	6.28	130.02	121.05
6	G	865	GLU	C-N-CA	6.28	130.02	121.05
2	C	206	ARG	N-CA-C	-6.27	102.81	111.28
2	K	206	ARG	N-CA-C	-6.27	102.81	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	865	GLU	CA-C-N	6.27	130.02	121.05
6	O	865	GLU	C-N-CA	6.27	130.02	121.05
2	K	574	LYS	N-CA-C	-6.27	98.17	108.76
4	M	27	VAL	N-CA-C	6.26	117.05	110.72
3	D	100	ASP	N-CA-C	-6.26	99.46	108.60
5	N	58	GLU	N-CA-C	-6.26	105.39	113.16
6	O	934	PRO	CA-C-O	-6.26	113.89	122.15
2	C	716	LEU	CA-C-N	6.25	128.66	120.28
2	C	716	LEU	C-N-CA	6.25	128.66	120.28
6	G	934	PRO	CA-C-O	-6.25	113.90	122.15
6	G	561	LEU	O-C-N	-6.25	115.50	122.12
3	D	169	VAL	N-CA-C	-6.25	99.43	108.36
4	E	455	ILE	CA-C-N	6.25	128.56	120.44
4	E	455	ILE	C-N-CA	6.25	128.56	120.44
7	Q	374	ILE	O-C-N	6.25	125.31	121.37
5	F	58	GLU	N-CA-C	-6.24	105.42	113.16
3	L	58	LEU	N-CA-C	-6.24	100.71	110.14
2	K	584	GLU	N-CA-C	-6.24	105.15	112.89
2	C	363	PHE	N-CA-C	-6.24	102.61	108.22
6	G	137	MET	O-C-N	-6.24	115.97	120.27
3	L	88	THR	N-CA-C	-6.24	104.83	112.88
6	O	497	ALA	N-CA-C	6.24	118.16	111.36
3	D	70	ASN	N-CA-C	-6.24	103.56	111.92
4	E	27	VAL	N-CA-C	6.24	117.02	110.72
3	L	741	CYS	CA-C-N	6.24	128.92	120.44
3	L	741	CYS	C-N-CA	6.24	128.92	120.44
3	D	58	LEU	N-CA-C	-6.24	100.72	110.14
2	C	75	ILE	N-CA-C	-6.23	99.44	108.17
4	E	548	LEU	N-CA-C	-6.23	104.26	113.61
4	M	694	PRO	N-CA-C	6.23	120.76	111.41
5	N	142	VAL	O-C-N	6.23	128.01	121.91
6	O	59	LEU	N-CA-C	6.23	118.87	111.33
5	F	142	VAL	O-C-N	6.23	128.01	121.91
6	G	59	LEU	N-CA-C	6.23	118.87	111.33
6	O	561	LEU	O-C-N	-6.22	115.53	122.12
2	C	584	GLU	N-CA-C	-6.22	105.18	112.89
3	D	741	CYS	CA-C-N	6.21	128.89	120.44
3	D	741	CYS	C-N-CA	6.21	128.89	120.44
2	K	75	ILE	N-CA-C	-6.21	99.47	108.17
3	D	271	MET	O-C-N	6.21	129.58	122.25
7	H	373	PHE	CA-C-N	-6.21	115.77	122.85
7	H	373	PHE	C-N-CA	-6.21	115.77	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	108	SER	CA-C-O	-6.21	113.97	120.55
4	M	621	PRO	O-C-N	6.21	130.65	122.27
4	M	758	VAL	N-CA-C	-6.21	99.54	108.48
7	P	61	MET	CA-C-O	-6.21	112.43	120.25
3	D	88	THR	N-CA-C	-6.21	104.87	112.88
2	K	716	LEU	CA-C-N	6.21	128.60	120.28
2	K	716	LEU	C-N-CA	6.21	128.60	120.28
2	C	570	VAL	CA-C-N	6.20	129.10	120.29
2	C	570	VAL	C-N-CA	6.20	129.10	120.29
4	M	463	GLY	CA-C-N	6.20	127.59	119.84
4	M	463	GLY	C-N-CA	6.20	127.59	119.84
4	M	702	GLN	CA-C-N	6.20	126.12	119.85
4	M	702	GLN	C-N-CA	6.20	126.12	119.85
2	K	29	HIS	N-CA-C	-6.20	105.20	112.89
2	K	363	PHE	N-CA-C	-6.20	102.64	108.22
4	E	259	LEU	N-CA-C	-6.20	101.19	110.06
2	K	808	TRP	CA-C-O	-6.20	114.50	119.71
4	E	269	GLU	O-C-N	6.20	128.45	122.07
3	L	70	ASN	N-CA-C	-6.20	103.62	111.92
5	N	33	ASP	N-CA-C	-6.19	105.36	113.17
3	L	271	MET	O-C-N	6.19	129.56	122.25
4	M	548	LEU	N-CA-C	-6.19	104.32	113.61
4	M	259	LEU	N-CA-C	-6.19	101.21	110.06
7	H	61	MET	CA-C-O	-6.19	112.45	120.25
4	M	366	SER	CA-C-N	6.19	128.57	120.28
4	M	366	SER	C-N-CA	6.19	128.57	120.28
2	C	385	ASN	N-CA-C	-6.18	102.88	110.61
6	O	115	PHE	N-CA-C	6.18	117.69	111.07
2	K	385	ASN	N-CA-C	-6.18	102.88	110.61
4	E	463	GLY	CA-C-N	6.18	127.56	119.84
4	E	463	GLY	C-N-CA	6.18	127.56	119.84
6	G	430	ARG	CA-C-N	6.18	132.51	123.12
6	G	430	ARG	C-N-CA	6.18	132.51	123.12
4	M	433	GLU	CA-C-N	6.18	128.56	120.28
4	M	433	GLU	C-N-CA	6.18	128.56	120.28
2	C	29	HIS	N-CA-C	-6.18	105.23	112.89
4	M	837	GLY	CA-C-O	6.18	126.16	119.06
5	F	33	ASP	N-CA-C	-6.17	105.39	113.17
4	E	366	SER	CA-C-N	6.17	128.55	120.28
4	E	366	SER	C-N-CA	6.17	128.55	120.28
6	G	498	GLY	CA-C-N	6.17	133.33	121.54
6	G	498	GLY	C-N-CA	6.17	133.33	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	151	LYS	N-CA-C	-6.17	105.40	113.17
3	L	302	GLU	N-CA-C	-6.17	105.54	114.12
7	P	373	PHE	CA-C-N	-6.17	115.82	122.85
7	P	373	PHE	C-N-CA	-6.17	115.82	122.85
6	O	16	MET	CA-C-N	6.17	128.83	120.38
6	O	16	MET	C-N-CA	6.17	128.83	120.38
4	E	108	SER	O-C-N	6.16	128.65	122.12
6	G	115	PHE	N-CA-C	6.16	117.67	111.07
6	G	16	MET	CA-C-N	6.16	128.82	120.38
6	G	16	MET	C-N-CA	6.16	128.82	120.38
6	O	498	GLY	CA-C-N	6.16	133.31	121.54
6	O	498	GLY	C-N-CA	6.16	133.31	121.54
2	C	808	TRP	CA-C-O	-6.16	114.53	119.71
4	E	433	GLU	CA-C-N	6.16	128.54	120.28
4	E	433	GLU	C-N-CA	6.16	128.54	120.28
6	O	430	ARG	CA-C-N	6.16	132.48	123.12
6	O	430	ARG	C-N-CA	6.16	132.48	123.12
7	P	92	GLU	N-CA-C	-6.15	104.65	111.36
3	D	625	LEU	O-C-N	6.15	128.64	122.12
5	F	55	THR	N-CA-C	-6.15	97.69	110.80
6	O	414	GLU	N-CA-C	-6.15	104.49	111.07
2	K	570	VAL	CA-C-N	6.15	129.02	120.29
2	K	570	VAL	C-N-CA	6.15	129.02	120.29
7	Q	373	PHE	CA-C-N	-6.15	115.84	122.85
7	Q	373	PHE	C-N-CA	-6.15	115.84	122.85
6	G	414	GLU	N-CA-C	-6.14	104.50	111.07
3	L	668	GLN	CA-C-N	6.14	128.43	120.44
3	L	668	GLN	C-N-CA	6.14	128.43	120.44
6	O	55	LEU	CA-C-N	6.14	125.83	119.56
6	O	55	LEU	C-N-CA	6.14	125.83	119.56
7	H	92	GLU	N-CA-C	-6.14	104.67	111.36
4	M	269	GLU	O-C-N	6.14	128.39	122.07
5	N	55	THR	N-CA-C	-6.14	97.72	110.80
6	G	55	LEU	CA-C-N	6.14	125.82	119.56
6	G	55	LEU	C-N-CA	6.14	125.82	119.56
5	F	65	LEU	N-CA-C	-6.14	99.90	109.72
6	G	168	HIS	CA-C-O	-6.14	112.00	119.43
5	N	65	LEU	N-CA-C	-6.14	99.90	109.72
4	M	151	LYS	N-CA-C	-6.13	105.44	113.17
2	C	560	ILE	N-CA-C	-6.13	98.91	107.80
6	G	19	GLU	O-C-N	-6.13	116.35	121.44
6	O	19	GLU	O-C-N	-6.13	116.35	121.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	317	PHE	CA-C-N	6.13	131.46	123.00
2	K	317	PHE	C-N-CA	6.13	131.46	123.00
4	M	868	ILE	N-CA-C	6.13	116.30	110.42
6	O	168	HIS	CA-C-O	-6.13	112.01	119.43
2	C	359	SER	N-CA-C	6.13	118.43	108.63
2	K	560	ILE	N-CA-C	-6.13	98.92	107.80
3	L	39	VAL	N-CA-C	-6.13	99.42	108.85
3	D	668	GLN	CA-C-N	6.12	128.40	120.44
3	D	668	GLN	C-N-CA	6.12	128.40	120.44
7	Q	374	ILE	CA-C-O	6.12	123.90	119.25
4	M	108	SER	O-C-N	6.12	128.61	122.12
4	M	275	VAL	N-CA-C	6.12	117.59	110.62
4	M	550	GLY	N-CA-C	-6.12	105.97	116.01
4	E	275	VAL	N-CA-C	6.12	117.59	110.62
6	G	438	ILE	CA-C-N	6.12	128.49	120.60
6	G	438	ILE	C-N-CA	6.12	128.49	120.60
3	L	245	ILE	N-CA-C	-6.12	99.55	108.11
3	D	39	VAL	N-CA-C	-6.11	99.43	108.85
3	L	625	LEU	O-C-N	6.11	128.60	122.12
6	G	153	ARG	CA-C-N	6.11	128.39	120.44
6	G	153	ARG	C-N-CA	6.11	128.39	120.44
2	C	150	VAL	N-CA-C	-6.11	99.79	108.65
6	O	438	ILE	CA-C-N	6.11	128.48	120.60
6	O	438	ILE	C-N-CA	6.11	128.48	120.60
3	D	751	LEU	O-C-N	-6.11	114.30	121.32
3	D	366	PHE	N-CA-C	-6.10	100.06	109.52
6	G	899	LEU	N-CA-C	6.10	123.79	110.80
6	O	899	LEU	N-CA-C	6.10	123.79	110.80
2	C	317	PHE	CA-C-N	6.10	131.41	123.00
2	C	317	PHE	C-N-CA	6.10	131.41	123.00
7	H	11	LYS	N-CA-C	-6.10	106.51	112.97
6	O	219	PHE	N-CA-C	-6.10	104.55	111.07
2	K	359	SER	N-CA-C	6.10	118.38	108.63
3	L	608	LYS	CA-C-N	6.10	130.10	120.47
3	L	608	LYS	C-N-CA	6.10	130.10	120.47
4	E	550	GLY	N-CA-C	-6.09	106.02	116.01
5	F	109	VAL	CA-C-O	6.09	128.32	120.95
4	E	86	ARG	N-CA-C	6.09	117.92	111.28
2	K	150	VAL	N-CA-C	-6.09	99.82	108.65
4	M	867	ASP	CA-C-N	6.09	128.23	120.56
4	M	867	ASP	C-N-CA	6.09	128.23	120.56
4	M	502	ASN	CA-C-N	6.08	128.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	502	ASN	C-N-CA	6.08	128.43	120.28
3	D	608	LYS	CA-C-N	6.08	130.08	120.47
3	D	608	LYS	C-N-CA	6.08	130.08	120.47
5	N	109	VAL	CA-C-O	6.08	128.31	120.95
4	M	24	LYS	O-C-N	-6.08	115.22	122.15
4	M	673	THR	N-CA-C	-6.08	99.09	109.24
3	D	245	ILE	N-CA-C	-6.08	99.60	108.11
4	E	24	LYS	O-C-N	-6.08	115.22	122.15
4	E	502	ASN	CA-C-N	6.08	128.43	120.28
4	E	502	ASN	C-N-CA	6.08	128.43	120.28
4	M	180	GLU	CA-C-N	6.08	128.34	120.44
4	M	180	GLU	C-N-CA	6.08	128.34	120.44
6	O	153	ARG	CA-C-N	6.08	128.42	120.28
6	O	153	ARG	C-N-CA	6.08	128.42	120.28
4	E	180	GLU	CA-C-N	6.08	128.34	120.44
4	E	180	GLU	C-N-CA	6.08	128.34	120.44
7	P	11	LYS	N-CA-C	-6.08	106.53	112.97
3	L	765	GLN	CA-C-N	6.07	129.09	120.53
3	L	765	GLN	C-N-CA	6.07	129.09	120.53
6	O	507	THR	CA-C-N	6.07	132.90	121.97
6	O	507	THR	C-N-CA	6.07	132.90	121.97
7	P	90	ILE	CA-C-N	6.07	125.75	119.56
7	P	90	ILE	C-N-CA	6.07	125.75	119.56
2	C	352	VAL	O-C-N	-6.07	114.98	122.57
7	Q	371	GLU	CA-C-N	-6.07	112.32	122.64
7	Q	371	GLU	C-N-CA	-6.07	112.32	122.64
4	E	396	VAL	CA-C-N	6.07	128.33	120.44
4	E	396	VAL	C-N-CA	6.07	128.33	120.44
3	L	751	LEU	O-C-N	-6.07	114.34	121.32
5	F	60	ALA	N-CA-C	-6.07	99.18	108.76
6	G	219	PHE	N-CA-C	-6.07	104.58	111.07
6	G	488	ILE	CA-C-N	6.07	129.08	120.53
6	G	488	ILE	C-N-CA	6.07	129.08	120.53
4	M	396	VAL	CA-C-N	6.07	128.33	120.44
4	M	396	VAL	C-N-CA	6.07	128.33	120.44
6	G	224	GLN	CA-C-N	6.06	128.41	120.28
6	G	224	GLN	C-N-CA	6.06	128.41	120.28
3	L	366	PHE	N-CA-C	-6.06	100.12	109.52
3	D	367	VAL	N-CA-C	-6.06	99.43	108.46
7	H	90	ILE	CA-C-N	6.06	125.74	119.56
7	H	90	ILE	C-N-CA	6.06	125.74	119.56
2	C	528	ILE	CA-C-N	6.06	129.36	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	528	ILE	C-N-CA	6.06	129.36	120.82
5	F	87	GLU	CA-C-O	-6.06	114.13	120.55
7	H	29	ILE	CA-C-O	-6.06	114.75	121.17
3	D	710	SER	N-CA-C	6.06	118.84	111.82
5	N	60	ALA	N-CA-C	-6.06	99.19	108.76
6	O	488	ILE	CA-C-N	6.05	129.07	120.53
6	O	488	ILE	C-N-CA	6.05	129.07	120.53
7	P	371	GLU	CA-C-N	-6.05	112.35	122.64
7	P	371	GLU	C-N-CA	-6.05	112.35	122.64
2	C	200	VAL	O-C-N	6.05	130.96	122.97
2	K	352	VAL	O-C-N	-6.05	115.00	122.57
6	O	217	GLN	N-CA-C	-6.05	98.41	108.34
3	D	143	HIS	CA-C-N	6.05	133.09	121.54
3	D	143	HIS	C-N-CA	6.05	133.09	121.54
3	D	765	GLN	CA-C-N	6.05	129.06	120.53
3	D	765	GLN	C-N-CA	6.05	129.06	120.53
3	L	143	HIS	CA-C-N	6.05	133.10	121.54
3	L	143	HIS	C-N-CA	6.05	133.10	121.54
3	L	549	GLY	N-CA-C	-6.05	106.81	115.64
6	O	126	LYS	N-CA-C	6.05	118.84	111.82
6	O	356	LEU	O-C-N	-6.05	115.25	122.15
7	P	29	ILE	CA-C-O	-6.05	114.76	121.17
2	C	85	CYS	CA-C-O	-6.05	114.11	120.58
3	D	549	GLY	N-CA-C	-6.05	106.81	115.64
3	D	670	TRP	N-CA-C	6.05	117.95	111.36
6	G	507	THR	CA-C-N	6.04	132.85	121.97
6	G	507	THR	C-N-CA	6.04	132.85	121.97
7	H	310	PHE	CA-C-N	-6.04	115.86	122.38
7	H	310	PHE	C-N-CA	-6.04	115.86	122.38
6	G	126	LYS	N-CA-C	6.04	118.82	111.82
6	G	356	LEU	O-C-N	-6.04	115.27	122.15
3	L	670	TRP	N-CA-C	6.04	117.94	111.36
6	G	766	ASP	N-CA-C	6.04	118.50	110.53
7	H	371	GLU	CA-C-N	-6.04	112.38	122.64
7	H	371	GLU	C-N-CA	-6.04	112.38	122.64
2	K	657	ASN	N-CA-C	-6.04	98.57	108.41
6	O	224	GLN	CA-C-N	6.04	128.37	120.28
6	O	224	GLN	C-N-CA	6.04	128.37	120.28
4	M	681	MET	N-CA-C	6.03	119.31	109.24
5	N	87	GLU	CA-C-O	-6.03	114.16	120.55
7	P	310	PHE	CA-C-N	-6.03	115.87	122.38
7	P	310	PHE	C-N-CA	-6.03	115.87	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	657	ASN	N-CA-C	-6.03	98.58	108.41
7	Q	310	PHE	CA-C-N	-6.03	115.87	122.38
7	Q	310	PHE	C-N-CA	-6.03	115.87	122.38
6	G	217	GLN	N-CA-C	-6.02	98.46	108.34
6	O	766	ASP	N-CA-C	6.02	118.48	110.53
3	L	710	SER	N-CA-C	6.02	118.81	111.82
7	P	374	ILE	CA-C-O	6.02	123.83	119.25
3	L	367	VAL	N-CA-C	-6.02	99.49	108.46
6	O	562	THR	N-CA-C	-6.02	104.72	111.28
7	P	101	GLU	CA-C-O	-6.02	113.05	119.97
3	L	323	GLN	N-CA-C	-6.01	101.30	110.14
4	M	117	GLU	N-CA-C	-6.01	97.99	110.80
3	D	713	ASN	CA-C-N	6.01	128.83	120.29
3	D	713	ASN	C-N-CA	6.01	128.83	120.29
4	E	129	CYS	CA-C-N	6.01	128.62	120.44
4	E	129	CYS	C-N-CA	6.01	128.62	120.44
7	H	101	GLU	CA-C-O	-6.01	113.06	119.97
2	K	503	VAL	O-C-N	-6.01	116.15	123.00
3	L	713	ASN	CA-C-N	6.01	128.83	120.29
3	L	713	ASN	C-N-CA	6.01	128.83	120.29
4	M	129	CYS	CA-C-N	6.01	128.62	120.44
4	M	129	CYS	C-N-CA	6.01	128.62	120.44
5	N	104	MET	CA-C-N	6.01	129.44	120.31
5	N	104	MET	C-N-CA	6.01	129.44	120.31
6	O	946	ALA	N-CA-C	-6.01	100.45	108.74
2	K	85	CYS	CA-C-O	-6.01	114.15	120.58
7	P	64	LEU	CA-C-O	6.01	128.14	121.11
6	G	562	THR	N-CA-C	-6.01	104.73	111.28
2	K	200	VAL	O-C-N	6.00	130.90	122.97
3	D	323	GLN	N-CA-C	-6.00	101.31	110.14
3	D	763	PRO	CA-C-N	6.00	131.11	122.40
3	D	763	PRO	C-N-CA	6.00	131.11	122.40
4	M	86	ARG	N-CA-C	6.00	117.82	111.28
6	O	232	TYR	N-CA-C	-6.00	106.11	113.50
2	C	503	VAL	O-C-N	-6.00	116.16	123.00
5	F	104	MET	CA-C-N	6.00	129.43	120.31
5	F	104	MET	C-N-CA	6.00	129.43	120.31
6	G	128	LYS	CA-C-N	6.00	129.64	120.82
6	G	128	LYS	C-N-CA	6.00	129.64	120.82
3	L	112	PRO	N-CA-C	-6.00	107.78	114.92
4	E	117	GLU	N-CA-C	-6.00	98.02	110.80
6	G	874	MET	N-CA-C	-6.00	104.83	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	228	GLN	CA-C-N	6.00	131.00	123.14
2	K	228	GLN	C-N-CA	6.00	131.00	123.14
3	L	75	GLY	N-CA-C	-6.00	98.97	113.18
7	H	64	LEU	CA-C-O	6.00	128.12	121.11
2	C	458	TYR	CA-C-N	5.99	130.24	121.31
2	C	458	TYR	C-N-CA	5.99	130.24	121.31
2	K	528	ILE	CA-C-N	5.99	129.27	120.82
2	K	528	ILE	C-N-CA	5.99	129.27	120.82
6	O	743	ALA	CA-C-O	-5.99	114.10	121.11
3	L	763	PRO	CA-C-N	5.99	131.08	122.40
3	L	763	PRO	C-N-CA	5.99	131.08	122.40
6	O	578	GLN	CA-C-N	5.99	130.63	122.07
6	O	578	GLN	C-N-CA	5.99	130.63	122.07
3	D	614	PRO	CA-C-O	-5.99	114.60	121.96
3	D	75	GLY	N-CA-C	-5.98	99.00	113.18
3	D	112	PRO	N-CA-C	-5.98	107.80	114.92
6	O	258	PRO	N-CA-C	-5.98	105.73	113.57
4	M	222	GLY	N-CA-C	-5.98	99.00	113.18
3	D	9	ARG	O-C-N	-5.98	115.33	122.63
6	O	874	MET	N-CA-C	-5.98	104.84	111.36
2	C	228	GLN	CA-C-N	5.98	130.97	123.14
2	C	228	GLN	C-N-CA	5.98	130.97	123.14
4	E	141	GLU	CA-C-O	-5.98	114.50	120.90
6	G	578	GLN	CA-C-N	5.98	130.62	122.07
6	G	578	GLN	C-N-CA	5.98	130.62	122.07
4	E	562	LEU	CA-C-O	5.98	126.75	120.42
4	M	141	GLU	CA-C-O	-5.98	114.51	120.90
6	G	232	TYR	N-CA-C	-5.97	106.15	113.50
2	C	531	LYS	N-CA-C	-5.97	104.40	111.03
4	E	215	ILE	N-CA-C	5.97	116.75	110.72
3	L	9	ARG	O-C-N	-5.97	115.34	122.63
4	E	222	GLY	N-CA-C	-5.97	99.03	113.18
6	O	128	LYS	CA-C-N	5.97	129.59	120.82
6	O	128	LYS	C-N-CA	5.97	129.59	120.82
2	K	531	LYS	N-CA-C	-5.97	104.41	111.03
3	L	420	GLU	CA-C-N	5.97	131.58	123.11
3	L	420	GLU	C-N-CA	5.97	131.58	123.11
2	K	458	TYR	CA-C-N	5.96	130.20	121.31
2	K	458	TYR	C-N-CA	5.96	130.20	121.31
3	L	472	ASP	CA-C-N	5.96	131.21	122.08
3	L	472	ASP	C-N-CA	5.96	131.21	122.08
3	D	379	THR	CA-C-N	5.96	132.93	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	379	THR	C-N-CA	5.96	132.93	121.54
2	K	670	ASP	CA-C-N	5.96	128.76	120.29
2	K	670	ASP	C-N-CA	5.96	128.76	120.29
2	K	688	GLN	CA-C-N	5.96	128.88	120.42
2	K	688	GLN	C-N-CA	5.96	128.88	120.42
3	L	379	THR	CA-C-N	5.96	132.92	121.54
3	L	379	THR	C-N-CA	5.96	132.92	121.54
4	E	314	VAL	O-C-N	-5.96	116.16	122.83
4	E	267	VAL	O-C-N	-5.96	116.07	121.91
6	G	946	ALA	N-CA-C	-5.96	100.52	108.74
3	L	37	GLY	N-CA-C	-5.96	107.54	115.40
2	K	160	ARG	N-CA-C	-5.95	99.70	109.40
6	G	258	PRO	N-CA-C	-5.95	105.77	113.57
4	M	562	LEU	CA-C-O	5.95	126.73	120.42
3	D	37	GLY	N-CA-C	-5.95	107.55	115.40
3	D	420	GLU	CA-C-N	5.95	131.56	123.11
3	D	420	GLU	C-N-CA	5.95	131.56	123.11
6	G	743	ALA	CA-C-O	-5.95	114.15	121.11
7	H	6	ALA	N-CA-C	-5.95	98.71	108.76
6	O	829	ARG	CA-C-N	5.95	128.25	120.28
6	O	829	ARG	C-N-CA	5.95	128.25	120.28
2	K	438	LYS	O-C-N	5.94	130.22	123.27
3	L	94	MET	N-CA-C	-5.94	98.96	109.06
3	L	614	PRO	CA-C-O	-5.94	114.65	121.96
4	M	314	VAL	O-C-N	-5.94	116.17	122.83
7	H	121	TYR	CA-C-O	5.94	126.86	120.38
7	P	6	ALA	N-CA-C	-5.94	98.72	108.76
3	L	434	TYR	N-CA-C	-5.94	99.33	109.24
4	M	267	VAL	O-C-N	-5.94	116.09	121.91
2	C	428	VAL	N-CA-C	-5.93	99.62	108.46
3	D	472	ASP	CA-C-N	5.93	131.16	122.08
3	D	472	ASP	C-N-CA	5.93	131.16	122.08
6	G	829	ARG	CA-C-N	5.93	128.23	120.28
6	G	829	ARG	C-N-CA	5.93	128.23	120.28
6	O	888	THR	CA-C-N	5.93	132.87	121.54
6	O	888	THR	C-N-CA	5.93	132.87	121.54
3	D	434	TYR	N-CA-C	-5.93	99.33	109.24
5	F	87	GLU	O-C-N	5.93	128.41	122.12
2	K	787	ASP	N-CA-C	-5.93	106.00	113.18
3	D	94	MET	N-CA-C	-5.93	98.98	109.06
3	D	772	LEU	CA-C-O	5.93	126.83	120.55
6	O	292	GLU	N-CA-C	-5.93	97.64	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	374	ILE	CA-C-O	5.93	123.75	119.25
2	C	670	ASP	CA-C-N	5.92	128.70	120.29
2	C	670	ASP	C-N-CA	5.92	128.70	120.29
6	O	254	GLN	N-CA-C	-5.92	106.05	113.28
6	G	254	GLN	N-CA-C	-5.92	106.05	113.28
6	G	134	GLU	CA-C-N	5.92	125.47	119.19
6	G	134	GLU	C-N-CA	5.92	125.47	119.19
6	G	568	TYR	CA-C-N	5.92	129.03	120.98
6	G	568	TYR	C-N-CA	5.92	129.03	120.98
2	C	160	ARG	N-CA-C	-5.92	99.75	109.40
2	C	688	GLN	CA-C-N	5.92	128.82	120.42
2	C	688	GLN	C-N-CA	5.92	128.82	120.42
6	O	366	LYS	CA-C-N	5.92	132.30	122.54
6	O	366	LYS	C-N-CA	5.92	132.30	122.54
2	K	707	TYR	N-CA-C	5.92	118.52	111.71
4	M	215	ILE	N-CA-C	5.92	116.70	110.72
7	P	121	TYR	CA-C-O	5.92	126.83	120.38
4	M	815	ARG	CA-C-N	5.91	132.73	122.56
4	M	815	ARG	C-N-CA	5.91	132.73	122.56
6	G	888	THR	CA-C-N	5.91	132.83	121.54
6	G	888	THR	C-N-CA	5.91	132.83	121.54
6	O	568	TYR	CA-C-N	5.91	129.02	120.98
6	O	568	TYR	C-N-CA	5.91	129.02	120.98
6	G	292	GLU	N-CA-C	-5.91	97.68	108.02
6	G	366	LYS	CA-C-N	5.91	132.29	122.54
6	G	366	LYS	C-N-CA	5.91	132.29	122.54
3	D	452	TRP	N-CA-C	-5.91	105.99	112.72
2	K	428	VAL	N-CA-C	-5.91	99.66	108.46
3	D	218	ASN	O-C-N	5.90	130.74	122.36
2	C	707	TYR	N-CA-C	5.90	118.50	111.71
6	G	394	PHE	CA-C-O	-5.90	113.66	120.03
6	G	926	ILE	O-C-N	5.90	129.46	123.20
5	N	87	GLU	O-C-N	5.90	128.38	122.12
4	E	524	VAL	CA-C-N	5.90	128.46	120.44
4	E	524	VAL	C-N-CA	5.90	128.46	120.44
4	M	164	LEU	N-CA-C	-5.90	104.93	111.36
4	M	796	THR	CA-C-N	5.90	128.67	120.29
4	M	796	THR	C-N-CA	5.90	128.67	120.29
6	G	751	GLN	CA-C-N	5.90	132.50	123.47
6	G	751	GLN	C-N-CA	5.90	132.50	123.47
3	L	247	GLY	CA-C-O	5.90	126.78	121.47
4	E	467	ASN	N-CA-C	-5.90	100.35	109.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	394	PHE	CA-C-O	-5.90	113.66	120.03
6	O	926	ILE	O-C-N	5.89	129.45	123.20
6	G	206	LEU	O-C-N	5.89	128.37	122.12
6	O	316	ARG	CA-C-N	5.89	132.31	121.70
6	O	316	ARG	C-N-CA	5.89	132.31	121.70
3	L	452	TRP	N-CA-C	-5.89	106.01	112.72
3	L	344	ALA	CA-C-N	5.89	128.39	120.50
3	L	344	ALA	C-N-CA	5.89	128.39	120.50
2	C	438	LYS	O-C-N	5.89	130.16	123.27
6	G	316	ARG	CA-C-N	5.89	132.30	121.70
6	G	316	ARG	C-N-CA	5.89	132.30	121.70
3	L	218	ASN	O-C-N	5.89	130.72	122.36
4	M	481	VAL	N-CA-C	5.89	116.07	110.42
3	D	247	GLY	CA-C-O	5.88	126.77	121.47
6	G	150	TYR	CA-C-O	-5.88	114.64	120.70
2	C	688	GLN	N-CA-C	-5.88	104.78	111.07
4	E	164	LEU	N-CA-C	-5.88	104.95	111.36
2	K	475	PHE	O-C-N	5.88	130.48	123.24
6	O	150	TYR	CA-C-O	-5.88	114.64	120.70
3	L	455	THR	N-CA-C	5.88	119.30	111.30
3	D	393	GLU	N-CA-C	-5.88	100.12	109.23
4	E	224	LYS	N-CA-C	-5.88	103.45	111.56
6	O	206	LEU	O-C-N	5.88	128.35	122.12
4	M	234	ARG	N-CA-C	5.88	117.68	111.28
6	O	751	GLN	CA-C-N	5.88	132.46	123.47
6	O	751	GLN	C-N-CA	5.88	132.46	123.47
5	F	115	LEU	CA-C-N	5.87	128.15	120.28
5	F	115	LEU	C-N-CA	5.87	128.15	120.28
3	D	344	ALA	CA-C-N	5.87	128.37	120.50
3	D	344	ALA	C-N-CA	5.87	128.37	120.50
6	G	449	ILE	CA-C-O	5.87	127.18	120.90
3	L	551	ILE	N-CA-C	-5.87	99.89	108.11
2	C	605	ASN	CA-C-N	5.87	131.16	122.82
2	C	605	ASN	C-N-CA	5.87	131.16	122.82
4	M	829	LEU	N-CA-C	-5.87	99.62	109.07
2	C	76	LYS	N-CA-C	-5.87	100.23	109.50
3	D	406	ARG	O-C-N	5.87	130.08	123.27
6	O	512	GLN	N-CA-C	5.87	117.68	111.28
4	E	377	VAL	N-CA-C	-5.87	104.80	110.72
4	E	481	VAL	N-CA-C	5.87	116.05	110.42
2	C	684	GLN	CA-C-N	5.86	132.90	121.41
2	C	684	GLN	C-N-CA	5.86	132.90	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	512	GLN	N-CA-C	5.86	117.67	111.28
5	N	115	LEU	CA-C-N	5.86	128.14	120.28
5	N	115	LEU	C-N-CA	5.86	128.14	120.28
7	P	116	ILE	CA-C-N	-5.86	114.65	122.98
7	P	116	ILE	C-N-CA	-5.86	114.65	122.98
2	C	759	TYR	CA-C-O	-5.86	114.66	120.70
3	D	595	GLN	CA-C-N	5.86	128.06	120.44
3	D	595	GLN	C-N-CA	5.86	128.06	120.44
3	L	393	GLU	N-CA-C	-5.86	100.15	109.23
3	L	772	LEU	CA-C-O	5.86	126.76	120.55
4	M	224	LYS	N-CA-C	-5.86	103.47	111.56
4	M	729	LYS	CA-C-O	5.86	127.03	120.70
3	D	455	THR	N-CA-C	5.86	119.27	111.30
7	H	476	LYS	CA-C-N	-5.86	114.92	123.00
7	H	476	LYS	C-N-CA	-5.86	114.92	123.00
4	M	467	ASN	N-CA-C	-5.86	100.41	109.14
6	O	134	GLU	CA-C-N	5.86	125.40	119.19
6	O	134	GLU	C-N-CA	5.86	125.40	119.19
4	M	293	GLN	CA-C-N	5.86	128.40	120.44
4	M	293	GLN	C-N-CA	5.86	128.40	120.44
2	C	787	ASP	N-CA-C	-5.85	106.10	113.18
3	D	32	ALA	N-CA-C	-5.85	99.46	109.24
4	M	524	VAL	CA-C-N	5.85	128.40	120.44
4	M	524	VAL	C-N-CA	5.85	128.40	120.44
4	M	531	TYR	CA-C-N	5.85	128.05	120.44
4	M	531	TYR	C-N-CA	5.85	128.05	120.44
4	E	234	ARG	N-CA-C	5.85	117.66	111.28
2	K	759	TYR	CA-C-O	-5.85	114.67	120.70
3	L	32	ALA	N-CA-C	-5.85	99.47	109.24
4	M	749	ASP	N-CA-C	-5.85	100.17	109.07
6	G	302	LEU	O-C-N	5.85	130.37	122.59
2	K	605	ASN	CA-C-N	5.85	131.13	122.82
2	K	605	ASN	C-N-CA	5.85	131.13	122.82
6	O	214	ASP	CA-C-O	-5.85	114.88	120.90
4	M	306	ALA	CA-C-N	5.85	128.04	120.44
4	M	306	ALA	C-N-CA	5.85	128.04	120.44
2	K	76	LYS	N-CA-C	-5.84	100.27	109.50
2	K	684	GLN	CA-C-N	5.84	132.86	121.41
2	K	684	GLN	C-N-CA	5.84	132.86	121.41
4	M	283	LYS	CA-C-N	5.84	129.19	120.31
4	M	283	LYS	C-N-CA	5.84	129.19	120.31
4	E	283	LYS	CA-C-N	5.84	129.19	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	283	LYS	C-N-CA	5.84	129.19	120.31
4	E	531	TYR	CA-C-N	5.84	128.03	120.44
4	E	531	TYR	C-N-CA	5.84	128.03	120.44
3	L	414	ILE	N-CA-C	-5.84	100.07	108.48
6	O	128	LYS	O-C-N	5.84	129.35	122.34
2	K	688	GLN	N-CA-C	-5.84	104.82	111.07
3	L	416	LYS	O-C-N	-5.84	116.48	123.31
7	H	116	ILE	CA-C-N	-5.84	114.69	122.98
7	H	116	ILE	C-N-CA	-5.84	114.69	122.98
2	C	451	PRO	CA-C-O	-5.84	114.65	121.95
6	G	214	ASP	CA-C-O	-5.84	114.89	120.90
3	L	595	GLN	CA-C-N	5.84	128.03	120.44
3	L	595	GLN	C-N-CA	5.84	128.03	120.44
4	E	293	GLN	CA-C-N	5.83	128.38	120.44
4	E	293	GLN	C-N-CA	5.83	128.38	120.44
4	E	365	SER	CA-C-N	5.83	128.58	120.29
4	E	365	SER	C-N-CA	5.83	128.58	120.29
3	D	551	ILE	N-CA-C	-5.83	99.94	108.11
4	M	365	SER	CA-C-N	5.83	128.57	120.29
4	M	365	SER	C-N-CA	5.83	128.57	120.29
3	D	416	LYS	O-C-N	-5.83	116.49	123.31
3	L	625	LEU	CA-C-N	5.83	128.09	120.28
3	L	625	LEU	C-N-CA	5.83	128.09	120.28
4	M	310	THR	N-CA-C	-5.83	98.39	110.80
6	O	587	LEU	CA-C-N	5.82	128.67	120.28
6	O	587	LEU	C-N-CA	5.82	128.67	120.28
3	L	406	ARG	O-C-N	5.82	130.02	123.27
3	D	414	ILE	N-CA-C	-5.82	100.10	108.48
4	E	315	ALA	CA-C-N	5.82	131.82	121.75
4	E	315	ALA	C-N-CA	5.82	131.82	121.75
6	G	128	LYS	O-C-N	5.82	129.32	122.34
6	O	216	VAL	CA-C-N	5.82	130.98	122.77
6	O	216	VAL	C-N-CA	5.82	130.98	122.77
7	Q	476	LYS	CA-C-N	-5.82	114.97	123.00
7	Q	476	LYS	C-N-CA	-5.82	114.97	123.00
4	M	459	LEU	CA-C-N	5.82	126.40	119.94
4	M	459	LEU	C-N-CA	5.82	126.40	119.94
6	G	360	LEU	N-CA-C	5.82	117.62	111.28
6	O	302	LEU	O-C-N	5.82	130.32	122.59
6	G	54	LYS	N-CA-C	5.81	118.79	110.24
2	C	100	PHE	O-C-N	-5.81	116.53	123.27
4	M	315	ALA	CA-C-N	5.81	131.80	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	315	ALA	C-N-CA	5.81	131.80	121.75
6	O	196	MET	N-CA-C	-5.81	96.01	107.69
3	L	618	ARG	N-CA-C	5.81	117.61	111.28
4	M	344	ALA	CA-C-O	-5.81	114.39	120.55
2	K	344	LEU	CA-C-N	5.81	132.63	121.54
2	K	344	LEU	C-N-CA	5.81	132.63	121.54
4	E	306	ALA	CA-C-N	5.81	127.99	120.44
4	E	306	ALA	C-N-CA	5.81	127.99	120.44
6	G	587	LEU	CA-C-N	5.81	128.64	120.28
6	G	587	LEU	C-N-CA	5.81	128.64	120.28
3	D	614	PRO	CA-C-N	5.80	132.63	121.54
3	D	614	PRO	C-N-CA	5.80	132.63	121.54
4	E	310	THR	N-CA-C	-5.80	98.44	110.80
4	M	357	ILE	CA-C-N	5.80	127.99	120.44
4	M	357	ILE	C-N-CA	5.80	127.99	120.44
6	O	54	LYS	N-CA-C	5.80	118.77	110.24
6	O	360	LEU	N-CA-C	5.80	117.61	111.28
2	C	344	LEU	CA-C-N	5.80	132.62	121.54
2	C	344	LEU	C-N-CA	5.80	132.62	121.54
2	K	613	HIS	CA-C-N	5.80	128.63	120.28
2	K	613	HIS	C-N-CA	5.80	128.63	120.28
6	O	149	SER	CA-C-N	5.80	128.33	120.44
6	O	149	SER	C-N-CA	5.80	128.33	120.44
2	C	297	LEU	CA-C-O	-5.80	114.85	121.40
3	D	625	LEU	CA-C-N	5.80	128.05	120.28
3	D	625	LEU	C-N-CA	5.80	128.05	120.28
3	L	350	SER	N-CA-C	5.80	123.16	110.80
4	M	655	PHE	CA-C-N	5.80	128.63	120.28
4	M	655	PHE	C-N-CA	5.80	128.63	120.28
4	M	377	VAL	N-CA-C	-5.80	104.86	110.72
6	G	149	SER	CA-C-N	5.80	128.32	120.44
6	G	149	SER	C-N-CA	5.80	128.32	120.44
6	G	196	MET	N-CA-C	-5.80	96.04	107.69
4	E	304	ARG	CA-C-O	-5.79	113.55	120.10
4	E	357	ILE	CA-C-N	5.79	127.97	120.44
4	E	357	ILE	C-N-CA	5.79	127.97	120.44
4	M	304	ARG	CA-C-O	-5.79	113.55	120.10
4	M	349	LEU	CA-C-N	5.79	128.52	120.29
4	M	349	LEU	C-N-CA	5.79	128.52	120.29
4	M	810	MET	O-C-N	5.79	130.34	123.27
2	K	451	PRO	CA-C-O	-5.79	114.71	121.95
7	P	476	LYS	CA-C-N	-5.79	115.01	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	476	LYS	C-N-CA	-5.79	115.01	123.00
3	D	350	SER	N-CA-C	5.79	123.13	110.80
4	E	344	ALA	CA-C-O	-5.79	114.41	120.55
3	L	614	PRO	CA-C-N	5.79	132.60	121.54
3	L	614	PRO	C-N-CA	5.79	132.60	121.54
2	C	613	HIS	CA-C-N	5.79	128.61	120.28
2	C	613	HIS	C-N-CA	5.79	128.61	120.28
3	D	618	ARG	N-CA-C	5.79	117.59	111.28
3	D	344	ALA	CA-C-O	-5.78	113.50	120.32
6	G	216	VAL	CA-C-N	5.78	130.92	122.77
6	G	216	VAL	C-N-CA	5.78	130.92	122.77
2	K	297	LEU	CA-C-O	-5.78	114.87	121.40
2	K	100	PHE	O-C-N	-5.78	116.57	123.27
3	L	618	ARG	CA-C-N	5.78	128.02	120.28
3	L	618	ARG	C-N-CA	5.78	128.02	120.28
3	L	475	GLU	N-CA-C	-5.78	106.77	113.88
3	D	294	SER	N-CA-C	-5.78	100.52	109.24
3	D	475	GLU	N-CA-C	-5.77	106.78	113.88
4	E	349	LEU	CA-C-N	5.77	128.48	120.29
4	E	349	LEU	C-N-CA	5.77	128.48	120.29
7	P	76	ILE	N-CA-C	5.77	115.96	110.42
3	D	618	ARG	CA-C-N	5.76	128.00	120.28
3	D	618	ARG	C-N-CA	5.76	128.00	120.28
5	F	103	GLN	CA-C-N	5.76	127.93	120.44
5	F	103	GLN	C-N-CA	5.76	127.93	120.44
3	D	744	LEU	CA-C-N	5.76	128.47	120.29
3	D	744	LEU	C-N-CA	5.76	128.47	120.29
3	L	344	ALA	CA-C-O	-5.76	113.53	120.32
2	C	53	PRO	CA-C-N	5.76	130.76	123.10
2	C	53	PRO	C-N-CA	5.76	130.76	123.10
3	D	542	ARG	N-CA-C	-5.76	100.80	109.95
6	G	55	LEU	O-C-N	-5.76	114.70	121.32
6	G	924	VAL	N-CA-C	-5.76	100.11	108.17
6	O	924	VAL	N-CA-C	-5.76	100.11	108.17
2	C	316	VAL	N-CA-C	-5.75	100.11	108.17
4	M	645	GLU	N-CA-C	-5.75	104.25	112.13
4	M	793	THR	N-CA-C	-5.75	105.84	112.92
4	E	459	LEU	CA-C-N	5.75	126.32	119.94
4	E	459	LEU	C-N-CA	5.75	126.32	119.94
4	M	511	VAL	CA-C-N	5.75	128.26	120.44
4	M	511	VAL	C-N-CA	5.75	128.26	120.44
6	G	521	TYR	N-CA-C	-5.75	105.01	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	76	ILE	N-CA-C	5.75	115.94	110.42
2	K	53	PRO	CA-C-N	5.75	130.75	123.10
2	K	53	PRO	C-N-CA	5.75	130.75	123.10
3	L	697	GLY	CA-C-N	5.75	126.32	120.00
3	L	697	GLY	C-N-CA	5.75	126.32	120.00
5	N	103	GLN	CA-C-N	5.75	127.91	120.44
5	N	103	GLN	C-N-CA	5.75	127.91	120.44
4	E	511	VAL	CA-C-N	5.74	128.25	120.44
4	E	511	VAL	C-N-CA	5.74	128.25	120.44
3	L	294	SER	N-CA-C	-5.74	100.57	109.24
3	L	542	ARG	N-CA-C	-5.74	100.82	109.95
3	L	744	LEU	CA-C-N	5.74	128.45	120.29
3	L	744	LEU	C-N-CA	5.74	128.45	120.29
2	K	662	LEU	O-C-N	5.74	128.21	122.12
2	C	184	ILE	CA-C-N	5.74	129.51	121.02
2	C	184	ILE	C-N-CA	5.74	129.51	121.02
3	D	697	GLY	CA-C-N	5.74	126.31	120.00
3	D	697	GLY	C-N-CA	5.74	126.31	120.00
6	O	55	LEU	O-C-N	-5.73	114.72	121.32
4	E	106	THR	CA-C-N	5.73	127.89	120.44
4	E	106	THR	C-N-CA	5.73	127.89	120.44
2	K	417	THR	N-CA-C	-5.73	100.59	109.24
3	L	205	GLY	N-CA-C	-5.73	102.04	111.38
6	O	521	TYR	N-CA-C	-5.73	105.03	111.28
2	K	450	VAL	CA-C-N	5.73	126.05	119.92
2	K	450	VAL	C-N-CA	5.73	126.05	119.92
4	M	653	HIS	CA-C-O	-5.73	114.52	120.70
6	G	248	CYS	CA-C-N	5.72	128.55	120.42
6	G	248	CYS	C-N-CA	5.72	128.55	120.42
2	K	316	VAL	N-CA-C	-5.72	100.16	108.17
6	O	787	PRO	N-CA-C	-5.72	102.20	111.19
3	L	762	LEU	N-CA-C	5.72	122.46	109.81
4	E	162	SER	CA-C-N	5.72	127.94	120.28
4	E	162	SER	C-N-CA	5.72	127.94	120.28
4	M	106	THR	CA-C-N	5.72	127.87	120.44
4	M	106	THR	C-N-CA	5.72	127.87	120.44
7	Q	349	PRO	N-CA-C	-5.72	102.29	111.38
6	G	325	ILE	O-C-N	-5.71	116.33	121.87
3	L	481	THR	CA-C-O	-5.71	115.16	121.33
4	M	624	GLN	N-CA-C	-5.71	106.66	113.97
6	O	248	CYS	CA-C-N	5.71	128.53	120.42
6	O	248	CYS	C-N-CA	5.71	128.53	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	184	ILE	CA-C-N	5.71	129.47	121.02
2	K	184	ILE	C-N-CA	5.71	129.47	121.02
6	G	379	TYR	CA-C-O	5.71	126.60	120.55
7	H	349	PRO	N-CA-C	-5.71	102.31	111.38
4	M	632	SER	CA-C-N	5.71	129.33	120.60
4	M	632	SER	C-N-CA	5.71	129.33	120.60
3	D	481	THR	CA-C-O	-5.71	115.17	121.33
2	C	417	THR	N-CA-C	-5.70	100.63	109.24
3	D	762	LEU	N-CA-C	5.70	122.41	109.81
5	F	118	MET	CA-C-N	5.70	127.85	120.44
5	F	118	MET	C-N-CA	5.70	127.85	120.44
6	O	325	ILE	O-C-N	-5.70	116.34	121.87
3	D	205	GLY	N-CA-C	-5.70	102.08	111.38
5	N	118	MET	CA-C-N	5.70	127.85	120.44
5	N	118	MET	C-N-CA	5.70	127.85	120.44
2	C	450	VAL	CA-C-N	5.70	126.02	119.92
2	C	450	VAL	C-N-CA	5.70	126.02	119.92
2	C	667	ALA	CA-C-N	5.70	132.12	122.26
2	C	667	ALA	C-N-CA	5.70	132.12	122.26
6	G	787	PRO	N-CA-C	-5.70	102.25	111.19
2	K	330	GLY	O-C-N	5.70	130.10	122.70
4	M	832	GLY	N-CA-C	-5.69	102.38	110.63
2	K	667	ALA	CA-C-N	5.69	132.10	122.26
2	K	667	ALA	C-N-CA	5.69	132.10	122.26
4	M	162	SER	CA-C-N	5.69	127.91	120.28
4	M	162	SER	C-N-CA	5.69	127.91	120.28
7	P	29	ILE	O-C-N	5.69	127.49	121.91
2	C	330	GLY	O-C-N	5.69	130.09	122.70
7	P	61	MET	N-CA-C	-5.69	97.96	107.80
4	M	133	ASP	N-CA-C	-5.69	100.67	109.14
2	C	313	GLY	N-CA-C	-5.68	102.91	110.58
6	O	379	TYR	CA-C-O	5.68	126.58	120.55
6	O	361	LYS	CA-C-N	5.68	128.36	120.29
6	O	361	LYS	C-N-CA	5.68	128.36	120.29
2	K	313	GLY	N-CA-C	-5.68	102.91	110.58
4	M	424	ILE	O-C-N	5.68	127.38	121.87
4	E	133	ASP	N-CA-C	-5.68	100.68	109.14
6	G	361	LYS	CA-C-N	5.68	128.35	120.29
6	G	361	LYS	C-N-CA	5.68	128.35	120.29
2	C	662	LEU	O-C-N	5.67	128.13	122.12
3	L	658	TYR	CA-C-N	5.67	127.89	120.28
3	L	658	TYR	C-N-CA	5.67	127.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	697	SER	O-C-N	-5.67	116.77	123.41
7	P	349	PRO	N-CA-C	-5.67	102.36	111.38
4	E	400	PHE	CA-C-N	5.67	127.88	120.28
4	E	400	PHE	C-N-CA	5.67	127.88	120.28
3	D	658	TYR	CA-C-N	5.67	127.88	120.28
3	D	658	TYR	C-N-CA	5.67	127.88	120.28
6	O	395	PRO	O-C-N	5.67	129.32	122.23
2	C	89	LEU	CA-C-N	5.67	129.96	122.42
2	C	89	LEU	C-N-CA	5.67	129.96	122.42
6	G	395	PRO	O-C-N	5.67	129.32	122.23
4	M	170	SER	CA-C-N	5.67	128.15	120.44
4	M	170	SER	C-N-CA	5.67	128.15	120.44
4	E	141	GLU	N-CA-C	5.67	117.91	111.11
6	G	120	THR	N-CA-C	-5.67	105.18	111.36
4	M	400	PHE	CA-C-N	5.67	127.87	120.28
4	M	400	PHE	C-N-CA	5.67	127.87	120.28
4	M	602	PRO	CA-C-N	5.66	132.32	122.81
4	M	602	PRO	C-N-CA	5.66	132.32	122.81
2	K	161	VAL	N-CA-C	-5.66	100.24	108.17
2	C	309	GLY	CA-C-O	-5.66	115.77	120.92
6	G	842	MET	CA-C-N	5.66	127.86	120.28
6	G	842	MET	C-N-CA	5.66	127.86	120.28
7	H	61	MET	N-CA-C	-5.66	98.02	107.80
6	O	842	MET	CA-C-N	5.66	127.86	120.28
6	O	842	MET	C-N-CA	5.66	127.86	120.28
5	N	140	GLN	CA-C-O	5.65	126.41	120.42
2	C	161	VAL	N-CA-C	-5.65	100.26	108.17
6	O	120	THR	N-CA-C	-5.65	105.20	111.36
5	F	140	GLN	CA-C-O	5.65	126.41	120.42
3	L	681	CYS	N-CA-C	-5.65	106.34	113.23
4	E	424	ILE	O-C-N	5.64	127.34	121.87
2	C	359	SER	CA-C-O	-5.64	114.53	121.02
6	O	855	PHE	CA-C-N	5.64	127.78	120.44
6	O	855	PHE	C-N-CA	5.64	127.78	120.44
3	D	577	ASP	CA-C-N	5.64	130.27	120.68
3	D	577	ASP	C-N-CA	5.64	130.27	120.68
4	M	635	GLU	CA-C-N	5.64	125.40	119.76
4	M	635	GLU	C-N-CA	5.64	125.40	119.76
6	O	274	ALA	CA-C-O	-5.64	114.16	119.80
2	K	359	SER	CA-C-O	-5.64	114.54	121.02
4	M	141	GLU	N-CA-C	5.64	117.88	111.11
6	G	191	ARG	N-CA-C	5.64	119.67	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	274	ALA	CA-C-O	-5.64	114.16	119.80
4	M	160	LEU	CA-C-N	5.64	128.42	120.42
4	M	160	LEU	C-N-CA	5.64	128.42	120.42
7	H	29	ILE	O-C-N	5.63	127.43	121.91
4	M	263	HIS	CA-C-N	5.63	127.83	120.28
4	M	263	HIS	C-N-CA	5.63	127.83	120.28
2	K	418	ALA	N-CA-C	-5.63	99.12	108.75
2	K	659	GLU	N-CA-C	-5.63	105.22	111.36
2	K	151	VAL	N-CA-C	-5.63	100.18	108.85
3	L	463	ILE	N-CA-C	-5.63	99.53	107.75
3	L	577	ASP	CA-C-N	5.63	130.25	120.68
3	L	577	ASP	C-N-CA	5.63	130.25	120.68
4	E	170	SER	CA-C-N	5.63	128.09	120.44
4	E	170	SER	C-N-CA	5.63	128.09	120.44
7	H	63	LYS	N-CA-C	-5.63	106.31	112.72
6	O	288	LEU	O-C-N	5.63	127.86	122.07
4	M	163	SER	CA-C-N	5.62	128.28	120.29
4	M	163	SER	C-N-CA	5.62	128.28	120.29
4	M	695	ALA	N-CA-C	-5.62	100.12	109.46
4	E	420	CYS	CA-C-O	-5.62	114.91	120.82
4	M	326	ASN	CA-C-N	5.62	128.09	120.44
4	M	326	ASN	C-N-CA	5.62	128.09	120.44
3	D	463	ILE	N-CA-C	-5.62	99.54	107.75
3	D	681	CYS	N-CA-C	-5.62	106.37	113.23
4	E	526	ASP	O-C-N	5.62	127.86	122.07
2	C	665	ALA	CA-C-N	5.62	127.81	120.28
2	C	665	ALA	C-N-CA	5.62	127.81	120.28
4	E	326	ASN	CA-C-N	5.62	128.08	120.44
4	E	326	ASN	C-N-CA	5.62	128.08	120.44
6	G	284	CYS	O-C-N	5.62	127.85	122.07
2	K	741	ASP	O-C-N	5.62	130.24	123.16
2	C	151	VAL	N-CA-C	-5.61	100.20	108.85
2	C	545	THR	N-CA-C	-5.61	105.39	114.09
4	E	263	HIS	CA-C-N	5.61	127.80	120.28
4	E	263	HIS	C-N-CA	5.61	127.80	120.28
2	C	418	ALA	N-CA-C	-5.61	99.15	108.75
6	G	268	LEU	N-CA-C	5.61	118.16	111.71
6	G	288	LEU	O-C-N	5.61	127.85	122.07
4	M	633	SER	O-C-N	5.61	127.71	121.43
5	N	45	GLU	CA-C-N	5.61	127.80	120.28
5	N	45	GLU	C-N-CA	5.61	127.80	120.28
6	O	595	LEU	N-CA-C	-5.61	104.79	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	89	LEU	CA-C-N	5.61	129.88	122.42
2	K	89	LEU	C-N-CA	5.61	129.88	122.42
6	G	157	LEU	CA-C-O	-5.61	114.48	120.42
2	K	517	LYS	N-CA-C	-5.61	98.86	110.80
4	M	659	LEU	N-CA-C	-5.61	99.88	109.24
6	O	534	LYS	CA-C-O	-5.61	115.23	121.51
2	C	659	GLU	N-CA-C	-5.60	105.25	111.36
6	O	743	ALA	O-C-N	5.60	130.13	123.24
2	C	741	ASP	O-C-N	5.60	130.22	123.16
3	L	447	LEU	N-CA-C	-5.60	99.28	108.41
6	O	191	ARG	N-CA-C	5.60	119.62	112.34
6	O	284	CYS	O-C-N	5.60	127.84	122.07
6	O	488	ILE	N-CA-C	5.60	119.95	111.89
2	K	545	THR	N-CA-C	-5.60	105.41	114.09
2	K	665	ALA	CA-C-N	5.60	127.78	120.28
2	K	665	ALA	C-N-CA	5.60	127.78	120.28
4	M	795	LYS	CA-C-O	-5.60	113.01	119.56
6	G	488	ILE	N-CA-C	5.60	119.95	111.89
6	O	268	LEU	N-CA-C	5.60	118.14	111.71
3	D	614	PRO	O-C-N	5.59	129.44	123.23
2	K	309	GLY	CA-C-O	-5.59	115.83	120.92
4	M	410	GLY	O-C-N	5.59	129.97	122.70
2	C	517	LYS	N-CA-C	-5.59	98.89	110.80
6	G	595	LEU	N-CA-C	-5.59	104.81	111.69
6	G	534	LYS	CA-C-O	-5.59	115.25	121.51
6	G	855	PHE	CA-C-N	5.59	127.71	120.44
6	G	855	PHE	C-N-CA	5.59	127.71	120.44
7	H	44	LYS	N-CA-C	-5.59	104.10	112.54
4	E	160	LEU	CA-C-N	5.58	128.35	120.42
4	E	160	LEU	C-N-CA	5.58	128.35	120.42
6	G	743	ALA	O-C-N	5.58	130.11	123.24
5	N	84	TYR	N-CA-C	-5.58	106.47	113.28
5	F	134	ILE	CA-C-O	5.58	127.57	121.04
2	C	93	LEU	N-CA-C	-5.58	105.07	112.94
2	C	475	PHE	O-C-N	5.58	130.45	123.19
4	E	163	SER	CA-C-N	5.58	128.22	120.29
4	E	163	SER	C-N-CA	5.58	128.22	120.29
2	K	756	SER	O-C-N	5.58	127.82	122.07
2	K	111	ALA	N-CA-C	-5.58	100.61	109.59
6	O	782	LYS	CA-C-N	5.58	129.40	121.42
6	O	782	LYS	C-N-CA	5.58	129.40	121.42
4	M	420	CYS	CA-C-O	-5.58	114.97	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	134	ILE	CA-C-O	5.58	127.56	121.04
5	F	84	TYR	N-CA-C	-5.57	106.48	113.28
2	K	169	LYS	CA-C-O	-5.57	115.10	121.68
2	K	658	ILE	O-C-N	5.57	127.11	122.09
2	K	750	LYS	O-C-N	5.57	127.81	122.07
3	L	614	PRO	O-C-N	5.57	129.41	123.23
5	F	45	GLU	CA-C-N	5.57	127.74	120.28
5	F	45	GLU	C-N-CA	5.57	127.74	120.28
6	O	459	LEU	O-C-N	5.57	128.03	122.12
3	D	447	LEU	N-CA-C	-5.57	99.33	108.41
4	M	606	ALA	CA-C-N	5.57	129.77	120.70
4	M	606	ALA	C-N-CA	5.57	129.77	120.70
4	E	410	GLY	O-C-N	5.57	129.94	122.70
6	O	213	ILE	CA-C-N	5.57	128.20	120.63
6	O	213	ILE	C-N-CA	5.57	128.20	120.63
3	L	120	ASP	CA-C-N	5.56	131.98	123.47
3	L	120	ASP	C-N-CA	5.56	131.98	123.47
3	L	770	VAL	O-C-N	-5.56	116.47	121.87
4	M	526	ASP	O-C-N	5.56	127.80	122.07
3	D	395	ALA	N-CA-C	-5.56	99.24	108.75
2	C	756	SER	O-C-N	5.56	127.80	122.07
6	G	213	ILE	CA-C-N	5.56	128.19	120.63
6	G	213	ILE	C-N-CA	5.56	128.19	120.63
6	O	157	LEU	CA-C-O	-5.56	114.53	120.42
4	E	65	GLU	O-C-N	5.56	128.49	122.15
3	L	283	SER	CA-C-N	5.56	132.16	121.54
3	L	283	SER	C-N-CA	5.56	132.16	121.54
6	O	101	VAL	N-CA-C	-5.56	105.22	113.39
3	D	154	ASP	N-CA-C	-5.56	98.97	110.80
4	M	634	PRO	N-CA-C	-5.55	107.57	114.68
2	K	93	LEU	N-CA-C	-5.55	105.11	112.94
3	L	395	ALA	N-CA-C	-5.55	99.26	108.75
7	P	46	HIS	CA-C-N	5.55	128.28	120.28
7	P	46	HIS	C-N-CA	5.55	128.28	120.28
6	G	459	LEU	O-C-N	5.55	128.00	122.12
7	H	46	HIS	CA-C-N	5.55	128.27	120.28
7	H	46	HIS	C-N-CA	5.55	128.27	120.28
2	C	750	LYS	O-C-N	5.55	127.78	122.07
6	G	269	VAL	CA-C-O	-5.54	114.89	121.05
2	K	367	ASN	N-CA-C	-5.54	100.28	108.99
6	O	269	VAL	CA-C-O	-5.54	114.89	121.05
2	C	111	ALA	N-CA-C	-5.54	100.67	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	205	ASP	N-CA-C	-5.54	98.99	110.80
6	G	938	VAL	CA-C-N	5.54	132.13	121.54
6	G	938	VAL	C-N-CA	5.54	132.13	121.54
2	K	178	GLU	CA-C-N	5.54	128.72	120.90
2	K	178	GLU	C-N-CA	5.54	128.72	120.90
7	P	44	LYS	N-CA-C	-5.54	104.17	112.54
6	G	785	GLU	O-C-N	-5.54	115.22	122.59
5	F	29	LYS	N-CA-C	-5.54	98.89	108.69
4	E	444	GLU	N-CA-C	5.54	118.24	111.82
2	K	205	ASP	N-CA-C	-5.54	99.00	110.80
7	P	63	LYS	N-CA-C	-5.54	106.41	112.72
6	G	584	GLU	N-CA-C	-5.53	99.88	108.90
3	L	154	ASP	N-CA-C	-5.53	99.02	110.80
4	M	65	GLU	O-C-N	5.53	128.46	122.15
4	M	444	GLU	N-CA-C	5.53	118.24	111.82
2	C	367	ASN	N-CA-C	-5.53	100.30	108.99
2	C	658	ILE	O-C-N	5.53	127.07	122.09
3	D	770	VAL	O-C-N	-5.53	116.51	121.87
2	K	363	PHE	CA-C-O	-5.53	115.00	120.26
2	K	685	GLY	O-C-N	5.53	129.89	122.70
5	N	31	TYR	N-CA-C	-5.53	106.12	112.92
3	D	479	ILE	CA-C-N	5.53	130.35	122.72
3	D	479	ILE	C-N-CA	5.53	130.35	122.72
6	G	101	VAL	N-CA-C	-5.53	105.27	113.39
7	P	127	LEU	CA-C-O	-5.53	113.61	119.97
3	D	283	SER	CA-C-N	5.53	132.09	121.54
3	D	283	SER	C-N-CA	5.53	132.09	121.54
6	G	28	ASN	CA-C-N	5.53	128.71	120.31
6	G	28	ASN	C-N-CA	5.53	128.71	120.31
6	O	938	VAL	CA-C-N	5.53	132.09	121.54
6	O	938	VAL	C-N-CA	5.53	132.09	121.54
3	L	271	MET	CA-C-N	5.52	132.09	121.54
3	L	271	MET	C-N-CA	5.52	132.09	121.54
2	C	178	GLU	CA-C-N	5.52	128.69	120.90
2	C	178	GLU	C-N-CA	5.52	128.69	120.90
6	G	782	LYS	CA-C-N	5.52	129.32	121.42
6	G	782	LYS	C-N-CA	5.52	129.32	121.42
6	O	490	GLU	CA-C-N	-5.52	113.26	120.44
6	O	490	GLU	C-N-CA	-5.52	113.26	120.44
6	O	28	ASN	CA-C-N	5.52	128.70	120.31
6	O	28	ASN	C-N-CA	5.52	128.70	120.31
3	D	120	ASP	CA-C-N	5.52	131.91	123.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	120	ASP	C-N-CA	5.52	131.91	123.47
4	E	457	HIS	CA-C-N	5.52	127.95	120.44
4	E	457	HIS	C-N-CA	5.52	127.95	120.44
5	N	29	LYS	N-CA-C	-5.52	98.92	108.69
2	C	169	LYS	CA-C-O	-5.52	115.17	121.68
4	M	159	ALA	CA-C-N	5.52	127.61	120.44
4	M	159	ALA	C-N-CA	5.52	127.61	120.44
3	D	271	MET	CA-C-N	5.51	132.07	121.54
3	D	271	MET	C-N-CA	5.51	132.07	121.54
3	D	728	ALA	N-CA-C	5.51	117.29	111.28
2	C	363	PHE	CA-C-O	-5.51	115.02	120.26
7	H	127	LEU	CA-C-O	-5.51	113.63	119.97
3	L	479	ILE	CA-C-N	5.51	130.32	122.72
3	L	479	ILE	C-N-CA	5.51	130.32	122.72
3	D	620	ARG	N-CA-C	5.51	117.09	111.14
2	C	685	GLY	O-C-N	5.51	129.86	122.70
6	G	864	TRP	N-CA-C	-5.51	104.82	112.03
3	L	728	ALA	N-CA-C	5.51	117.28	111.28
4	M	457	HIS	CA-C-N	5.51	127.93	120.44
4	M	457	HIS	C-N-CA	5.51	127.93	120.44
6	O	584	GLU	N-CA-C	-5.50	99.93	108.90
6	G	345	LEU	CA-C-N	5.50	128.10	120.29
6	G	345	LEU	C-N-CA	5.50	128.10	120.29
3	D	106	ALA	N-CA-C	-5.50	100.06	109.24
6	O	489	VAL	CA-C-N	5.50	127.59	120.44
6	O	489	VAL	C-N-CA	5.50	127.59	120.44
6	G	490	GLU	CA-C-N	-5.50	113.30	120.44
6	G	490	GLU	C-N-CA	-5.50	113.30	120.44
3	D	436	GLY	CA-C-N	5.49	127.90	120.65
3	D	436	GLY	C-N-CA	5.49	127.90	120.65
4	E	159	ALA	CA-C-N	5.49	127.58	120.44
4	E	159	ALA	C-N-CA	5.49	127.58	120.44
3	L	416	LYS	N-CA-C	-5.49	99.48	108.76
6	O	345	LEU	CA-C-N	5.49	128.09	120.29
6	O	345	LEU	C-N-CA	5.49	128.09	120.29
7	H	75	ASN	CA-C-N	5.49	127.48	120.56
7	H	75	ASN	C-N-CA	5.49	127.48	120.56
3	L	291	ASP	O-C-N	5.49	128.41	122.15
6	O	181	LEU	N-CA-C	-5.49	99.11	110.80
6	G	363	GLU	CA-C-N	5.49	128.80	120.95
6	G	363	GLU	C-N-CA	5.49	128.80	120.95
3	L	802	LYS	CA-C-O	-5.49	115.44	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	542	LEU	CA-C-O	-5.49	115.05	120.70
6	O	914	SER	O-C-N	-5.49	116.28	122.97
5	F	31	TYR	N-CA-C	-5.49	106.17	112.92
6	G	489	VAL	CA-C-N	5.49	127.57	120.44
6	G	489	VAL	C-N-CA	5.49	127.57	120.44
6	G	181	LEU	N-CA-C	-5.48	99.12	110.80
6	O	415	ALA	CA-C-N	5.48	127.62	120.28
6	O	415	ALA	C-N-CA	5.48	127.62	120.28
3	D	590	SER	N-CA-C	5.48	117.25	111.28
6	O	785	GLU	O-C-N	-5.48	115.30	122.59
6	O	864	TRP	N-CA-C	-5.48	104.85	112.03
5	F	68	VAL	CA-C-O	5.48	126.14	120.39
3	L	590	SER	N-CA-C	5.48	117.25	111.28
3	L	620	ARG	N-CA-C	5.48	117.06	111.14
4	M	513	LEU	N-CA-C	5.48	118.17	111.82
6	G	415	ALA	CA-C-N	5.47	127.62	120.28
6	G	415	ALA	C-N-CA	5.47	127.62	120.28
2	K	373	ALA	CA-C-N	5.47	132.00	121.54
2	K	373	ALA	C-N-CA	5.47	132.00	121.54
2	K	651	LEU	CA-C-N	5.47	127.62	120.28
2	K	651	LEU	C-N-CA	5.47	127.62	120.28
3	L	534	PHE	CA-C-O	-5.47	114.50	120.36
4	E	538	LYS	CA-C-N	5.47	127.61	120.28
4	E	538	LYS	C-N-CA	5.47	127.61	120.28
3	L	574	TYR	N-CA-C	-5.47	100.26	109.07
4	M	538	LYS	CA-C-N	5.47	127.61	120.28
4	M	538	LYS	C-N-CA	5.47	127.61	120.28
3	D	291	ASP	O-C-N	5.47	128.39	122.15
4	E	81	ASP	CA-C-N	5.47	124.81	118.85
4	E	81	ASP	C-N-CA	5.47	124.81	118.85
3	D	421	LYS	CA-C-N	5.47	130.97	122.49
3	D	421	LYS	C-N-CA	5.47	130.97	122.49
4	E	64	THR	CA-C-N	5.47	128.06	120.29
4	E	64	THR	C-N-CA	5.47	128.06	120.29
4	E	103	ILE	CA-C-N	5.47	129.11	120.47
4	E	103	ILE	C-N-CA	5.47	129.11	120.47
3	L	106	ALA	N-CA-C	-5.47	100.11	109.24
3	L	436	GLY	CA-C-N	5.47	127.87	120.65
3	L	436	GLY	C-N-CA	5.47	127.87	120.65
7	P	75	ASN	CA-C-N	5.47	127.45	120.56
7	P	75	ASN	C-N-CA	5.47	127.45	120.56
2	K	669	ASP	O-C-N	5.47	129.14	122.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	753	GLU	CA-C-O	-5.47	114.63	120.42
4	M	337	ASN	CA-C-N	-5.47	112.53	120.29
4	M	337	ASN	C-N-CA	-5.47	112.53	120.29
6	O	352	ASN	N-CA-C	-5.47	107.86	114.75
6	G	914	SER	O-C-N	-5.46	116.30	122.97
3	D	574	TYR	N-CA-C	-5.46	100.28	109.07
3	D	416	LYS	N-CA-C	-5.46	99.53	108.76
2	K	234	MET	N-CA-C	-5.46	106.29	113.17
4	M	292	LEU	N-CA-C	5.46	117.94	111.33
4	E	23	GLU	CA-C-N	5.46	128.04	120.29
4	E	23	GLU	C-N-CA	5.46	128.04	120.29
4	M	64	THR	CA-C-N	5.46	128.04	120.29
4	M	64	THR	C-N-CA	5.46	128.04	120.29
6	G	452	VAL	CA-C-N	5.46	127.59	120.28
6	G	452	VAL	C-N-CA	5.46	127.59	120.28
3	L	596	THR	N-CA-C	-5.46	105.23	111.07
2	C	234	MET	N-CA-C	-5.46	106.29	113.17
2	C	373	ALA	CA-C-N	5.46	131.96	121.54
2	C	373	ALA	C-N-CA	5.46	131.96	121.54
2	K	751	ASN	CA-C-N	5.46	128.60	120.31
2	K	751	ASN	C-N-CA	5.46	128.60	120.31
3	L	421	LYS	CA-C-N	5.46	130.95	122.49
3	L	421	LYS	C-N-CA	5.46	130.95	122.49
2	C	669	ASP	O-C-N	5.46	129.13	122.58
2	C	156	ASP	N-CA-C	-5.45	106.50	112.72
2	C	651	LEU	CA-C-N	5.45	127.59	120.28
2	C	651	LEU	C-N-CA	5.45	127.59	120.28
2	K	5	PHE	O-C-N	-5.45	117.03	123.41
4	M	49	THR	CA-C-N	5.45	127.59	120.28
4	M	49	THR	C-N-CA	5.45	127.59	120.28
4	M	492	VAL	N-CA-C	5.45	116.23	110.72
3	D	534	PHE	CA-C-O	-5.45	114.53	120.36
4	M	103	ILE	CA-C-N	5.45	129.08	120.47
4	M	103	ILE	C-N-CA	5.45	129.08	120.47
4	E	49	THR	CA-C-N	5.45	127.58	120.28
4	E	49	THR	C-N-CA	5.45	127.58	120.28
4	E	196	ALA	CA-C-N	5.45	128.03	120.29
4	E	196	ALA	C-N-CA	5.45	128.03	120.29
3	D	145	VAL	O-C-N	5.45	128.99	122.62
4	E	337	ASN	CA-C-N	-5.45	112.55	120.29
4	E	337	ASN	C-N-CA	-5.45	112.55	120.29
2	K	215	PRO	N-CA-C	5.45	123.69	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	523	ASN	CA-C-N	5.45	129.40	122.37
2	K	523	ASN	C-N-CA	5.45	129.40	122.37
2	C	751	ASN	CA-C-N	5.45	128.59	120.31
2	C	751	ASN	C-N-CA	5.45	128.59	120.31
3	D	802	LYS	CA-C-O	-5.45	115.48	121.31
3	L	440	GLY	N-CA-C	-5.45	101.02	110.71
4	M	196	ALA	CA-C-N	5.45	128.02	120.29
4	M	196	ALA	C-N-CA	5.45	128.02	120.29
6	O	888	THR	N-CA-C	-5.45	104.84	112.25
7	P	68	LEU	N-CA-C	-5.45	100.15	109.24
3	D	633	GLN	N-CA-C	-5.44	105.43	111.36
6	G	255	SER	CA-C-N	5.44	131.94	121.54
6	G	255	SER	C-N-CA	5.44	131.94	121.54
4	M	836	GLY	N-CA-C	-5.44	108.13	115.21
4	E	542	LEU	CA-C-O	-5.44	115.09	120.70
3	L	633	GLN	N-CA-C	-5.44	105.43	111.36
3	L	390	SER	N-CA-C	-5.44	100.83	109.59
2	C	215	PRO	N-CA-C	5.44	123.67	112.47
3	D	190	CYS	O-C-N	5.44	129.58	123.27
6	G	352	ASN	N-CA-C	-5.44	107.90	114.75
3	D	243	ILE	CA-C-O	5.44	127.58	120.78
3	L	145	VAL	O-C-N	5.44	128.98	122.62
4	M	617	LEU	CA-C-N	5.44	128.11	120.28
4	M	617	LEU	C-N-CA	5.44	128.11	120.28
7	H	68	LEU	N-CA-C	-5.44	100.16	109.24
4	M	81	ASP	CA-C-N	5.44	124.78	118.85
4	M	81	ASP	C-N-CA	5.44	124.78	118.85
3	D	753	GLU	CA-C-O	-5.43	114.66	120.42
4	M	23	GLU	CA-C-N	5.43	128.00	120.29
4	M	23	GLU	C-N-CA	5.43	128.00	120.29
6	O	452	VAL	CA-C-N	5.43	127.56	120.28
6	O	452	VAL	C-N-CA	5.43	127.56	120.28
6	G	914	SER	N-CA-C	5.43	117.90	110.24
3	D	588	LEU	CA-C-N	5.43	127.90	120.46
3	D	588	LEU	C-N-CA	5.43	127.90	120.46
3	L	190	CYS	O-C-N	5.43	129.57	123.27
4	M	668	THR	CA-C-O	-5.43	113.54	119.95
6	O	914	SER	N-CA-C	5.43	117.89	110.24
2	C	807	ASN	N-CA-C	-5.43	104.92	112.30
3	D	596	THR	N-CA-C	-5.42	105.27	111.07
6	O	823	SER	N-CA-C	-5.42	101.16	109.41
3	L	540	VAL	O-C-N	5.42	127.09	122.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	68	VAL	CA-C-O	5.42	126.08	120.39
6	O	363	GLU	CA-C-N	5.42	128.71	120.95
6	O	363	GLU	C-N-CA	5.42	128.71	120.95
7	H	363	LYS	CA-C-N	-5.42	112.98	121.87
7	H	363	LYS	C-N-CA	-5.42	112.98	121.87
2	K	27	SER	N-CA-C	-5.42	100.06	108.90
2	K	405	PRO	N-CA-C	-5.42	105.54	114.75
6	G	803	ASN	CA-C-O	-5.42	115.24	121.47
2	C	405	PRO	N-CA-C	-5.42	105.54	114.75
2	K	807	ASN	N-CA-C	-5.42	104.93	112.30
3	D	440	GLY	N-CA-C	-5.42	101.07	110.71
2	C	27	SER	N-CA-C	-5.41	100.08	108.90
2	C	240	TRP	N-CA-C	-5.41	104.95	113.02
2	C	523	ASN	CA-C-N	5.41	129.35	122.37
2	C	523	ASN	C-N-CA	5.41	129.35	122.37
2	K	637	VAL	CA-C-N	5.41	127.53	120.28
2	K	637	VAL	C-N-CA	5.41	127.53	120.28
4	E	498	PHE	CA-C-N	5.41	125.95	119.94
4	E	498	PHE	C-N-CA	5.41	125.95	119.94
2	K	156	ASP	N-CA-C	-5.41	106.55	112.72
6	O	255	SER	CA-C-N	5.41	131.87	121.54
6	O	255	SER	C-N-CA	5.41	131.87	121.54
6	O	509	GLY	N-CA-C	-5.41	101.30	112.34
3	D	579	GLU	O-C-N	5.41	129.49	122.89
4	E	292	LEU	N-CA-C	5.41	117.87	111.33
6	G	880	TYR	CA-C-N	5.41	127.47	120.44
6	G	880	TYR	C-N-CA	5.41	127.47	120.44
3	L	243	ILE	CA-C-O	5.41	127.54	120.78
6	O	803	ASN	CA-C-O	-5.41	115.25	121.47
4	E	492	VAL	N-CA-C	5.40	116.18	110.72
4	M	498	PHE	CA-C-N	5.40	125.94	119.94
4	M	498	PHE	C-N-CA	5.40	125.94	119.94
2	C	392	ASP	CA-C-N	5.40	130.76	122.93
2	C	392	ASP	C-N-CA	5.40	130.76	122.93
6	G	509	GLY	N-CA-C	-5.40	101.32	112.34
6	O	520	THR	N-CA-C	5.40	117.17	111.28
3	D	390	SER	N-CA-C	-5.40	100.89	109.59
6	G	823	SER	N-CA-C	-5.40	101.20	109.41
6	G	888	THR	N-CA-C	-5.40	104.91	112.25
4	M	154	SER	O-C-N	5.40	127.63	122.07
3	L	182	GLU	N-CA-C	-5.40	95.83	107.49
3	L	729	PHE	O-C-N	5.40	128.31	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	154	SER	O-C-N	5.40	127.63	122.07
2	K	240	TRP	N-CA-C	-5.40	104.98	113.02
2	K	392	ASP	CA-C-N	5.40	130.76	122.93
2	K	392	ASP	C-N-CA	5.40	130.76	122.93
4	M	452	ALA	CA-C-N	5.40	127.51	120.28
4	M	452	ALA	C-N-CA	5.40	127.51	120.28
4	E	513	LEU	N-CA-C	5.40	118.08	111.82
3	D	182	GLU	N-CA-C	-5.39	95.84	107.49
3	L	588	LEU	CA-C-N	5.39	127.85	120.46
3	L	588	LEU	C-N-CA	5.39	127.85	120.46
4	M	785	LYS	N-CA-C	-5.39	100.87	109.23
6	O	880	TYR	CA-C-N	5.39	127.45	120.44
6	O	880	TYR	C-N-CA	5.39	127.45	120.44
4	E	188	ASP	N-CA-C	-5.39	106.07	113.30
6	G	953	LEU	O-C-N	5.39	127.84	122.12
7	P	363	LYS	CA-C-N	-5.39	113.03	121.87
7	P	363	LYS	C-N-CA	-5.39	113.03	121.87
7	Q	363	LYS	CA-C-N	-5.39	113.03	121.87
7	Q	363	LYS	C-N-CA	-5.39	113.03	121.87
4	M	557	GLY	O-C-N	5.39	128.29	122.96
2	C	637	VAL	CA-C-N	5.39	127.50	120.28
2	C	637	VAL	C-N-CA	5.39	127.50	120.28
2	K	501	SER	O-C-N	-5.39	116.01	122.15
4	M	285	LEU	CA-C-O	5.39	125.95	119.59
4	M	602	PRO	N-CA-C	-5.39	102.22	110.95
6	O	332	PRO	O-C-N	5.39	129.91	122.64
2	C	422	ALA	CA-C-N	5.38	131.82	121.54
2	C	422	ALA	C-N-CA	5.38	131.82	121.54
3	L	349	GLY	CA-C-N	5.38	131.82	121.54
3	L	349	GLY	C-N-CA	5.38	131.82	121.54
3	L	648	ALA	O-C-N	5.38	127.82	122.12
3	D	752	PRO	CA-C-N	5.38	127.93	120.29
3	D	752	PRO	C-N-CA	5.38	127.93	120.29
6	G	520	THR	N-CA-C	5.38	117.14	111.28
2	C	5	PHE	O-C-N	-5.38	117.12	123.41
3	D	349	GLY	CA-C-N	5.38	131.81	121.54
3	D	349	GLY	C-N-CA	5.38	131.81	121.54
4	E	452	ALA	CA-C-N	5.38	127.48	120.28
4	E	452	ALA	C-N-CA	5.38	127.48	120.28
6	G	332	PRO	O-C-N	5.38	129.90	122.64
6	G	926	ILE	N-CA-C	-5.38	99.90	107.75
3	L	381	MET	CA-C-O	5.38	125.20	119.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	719	ALA	CA-C-N	5.37	128.88	120.82
3	D	719	ALA	C-N-CA	5.37	128.88	120.82
2	K	422	ALA	CA-C-N	5.37	131.80	121.54
2	K	422	ALA	C-N-CA	5.37	131.80	121.54
2	K	502	HIS	CA-C-N	-5.37	114.63	122.58
2	K	502	HIS	C-N-CA	-5.37	114.63	122.58
4	M	607	ALA	N-CA-C	-5.37	106.21	114.16
4	E	285	LEU	CA-C-O	5.37	125.93	119.59
4	M	680	GLN	N-CA-C	5.37	118.43	110.48
2	C	300	HIS	O-C-N	-5.37	115.73	121.42
4	E	402	PHE	CA-C-O	-5.37	114.86	120.55
2	C	700	PHE	CA-C-O	-5.37	114.73	120.42
3	D	439	LEU	CA-C-N	-5.37	117.59	122.80
3	D	439	LEU	C-N-CA	-5.37	117.59	122.80
2	K	658	ILE	CA-C-N	5.37	127.91	120.29
2	K	658	ILE	C-N-CA	5.37	127.91	120.29
3	L	752	PRO	CA-C-N	5.37	127.91	120.29
3	L	752	PRO	C-N-CA	5.37	127.91	120.29
3	L	450	TYR	CA-C-N	5.36	129.09	121.42
3	L	450	TYR	C-N-CA	5.36	129.09	121.42
5	F	114	LEU	CA-C-N	5.36	127.90	120.29
5	F	114	LEU	C-N-CA	5.36	127.90	120.29
3	D	381	MET	CA-C-O	5.36	125.18	119.34
3	D	729	PHE	O-C-N	5.36	128.26	122.15
3	L	579	GLU	O-C-N	5.36	129.43	122.89
3	L	654	LEU	CA-C-N	5.36	127.46	120.28
3	L	654	LEU	C-N-CA	5.36	127.46	120.28
2	K	300	HIS	O-C-N	-5.36	115.74	121.42
3	L	719	ALA	CA-C-N	5.36	128.86	120.82
3	L	719	ALA	C-N-CA	5.36	128.86	120.82
6	O	212	CYS	CA-C-N	5.36	128.09	120.53
6	O	212	CYS	C-N-CA	5.36	128.09	120.53
2	C	501	SER	O-C-N	-5.36	116.05	122.15
3	D	540	VAL	O-C-N	5.36	127.03	122.16
3	D	582	ILE	CA-C-N	5.36	131.21	122.69
3	D	582	ILE	C-N-CA	5.36	131.21	122.69
3	D	602	ASP	CA-C-N	5.36	127.40	120.44
3	D	602	ASP	C-N-CA	5.36	127.40	120.44
6	G	475	VAL	N-CA-C	5.36	115.56	110.53
3	L	582	ILE	CA-C-N	5.36	131.21	122.69
3	L	582	ILE	C-N-CA	5.36	131.21	122.69
4	M	188	ASP	N-CA-C	-5.36	106.12	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	564	LEU	CA-C-O	5.35	126.22	120.70
2	K	700	PHE	CA-C-O	-5.35	114.75	120.42
5	N	114	LEU	CA-C-N	5.35	127.89	120.29
5	N	114	LEU	C-N-CA	5.35	127.89	120.29
7	P	18	SER	CA-C-N	-5.35	113.34	122.33
7	P	18	SER	C-N-CA	-5.35	113.34	122.33
3	L	346	LYS	CA-C-N	5.35	128.31	120.71
3	L	346	LYS	C-N-CA	5.35	128.31	120.71
6	O	926	ILE	N-CA-C	-5.35	99.94	107.75
7	Q	385	SER	N-CA-C	-5.35	106.59	113.01
3	D	654	LEU	CA-C-N	5.35	127.45	120.28
3	D	654	LEU	C-N-CA	5.35	127.45	120.28
2	K	205	ASP	CA-C-N	5.35	130.33	122.63
2	K	205	ASP	C-N-CA	5.35	130.33	122.63
2	K	35	LEU	N-CA-C	-5.35	100.19	108.90
4	M	402	PHE	CA-C-O	-5.35	114.88	120.55
3	D	493	GLU	N-CA-C	5.35	117.19	111.36
4	E	381	GLN	CA-C-N	5.35	127.39	120.44
4	E	381	GLN	C-N-CA	5.35	127.39	120.44
3	L	92	VAL	CA-C-O	-5.35	115.11	121.05
4	M	30	GLU	CA-C-N	5.35	129.15	120.60
4	M	30	GLU	C-N-CA	5.35	129.15	120.60
2	C	502	HIS	CA-C-N	-5.34	114.67	122.58
2	C	502	HIS	C-N-CA	-5.34	114.67	122.58
3	D	77	ASP	N-CA-C	-5.34	107.06	113.21
6	O	475	VAL	N-CA-C	5.34	115.55	110.53
2	C	658	ILE	CA-C-N	5.34	127.88	120.29
2	C	658	ILE	C-N-CA	5.34	127.88	120.29
4	M	770	VAL	N-CA-C	-5.34	104.28	111.44
5	N	59	ILE	O-C-N	-5.34	117.42	123.03
5	N	87	GLU	CA-C-N	5.34	127.88	120.29
5	N	87	GLU	C-N-CA	5.34	127.88	120.29
3	L	360	HIS	CA-C-N	5.34	128.07	120.49
3	L	360	HIS	C-N-CA	5.34	128.07	120.49
6	O	953	LEU	O-C-N	5.34	127.78	122.12
4	E	503	GLU	CA-C-O	5.34	126.21	120.55
3	L	602	ASP	CA-C-N	5.34	127.38	120.44
3	L	602	ASP	C-N-CA	5.34	127.38	120.44
6	O	749	VAL	CA-C-O	5.33	125.53	120.25
6	G	212	CYS	CA-C-N	5.33	128.05	120.53
6	G	212	CYS	C-N-CA	5.33	128.05	120.53
3	L	439	LEU	CA-C-N	-5.33	117.63	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	439	LEU	C-N-CA	-5.33	117.63	122.80
3	D	346	LYS	CA-C-N	5.33	128.28	120.71
3	D	346	LYS	C-N-CA	5.33	128.28	120.71
4	E	142	ARG	CA-C-O	5.33	126.42	120.82
4	M	381	GLN	CA-C-N	5.33	127.37	120.44
4	M	381	GLN	C-N-CA	5.33	127.37	120.44
3	D	608	LYS	O-C-N	5.33	128.82	122.27
2	K	40	MET	CA-C-N	5.33	131.72	121.54
2	K	40	MET	C-N-CA	5.33	131.72	121.54
4	M	796	THR	O-C-N	-5.33	117.72	123.42
2	C	35	LEU	N-CA-C	-5.33	100.22	108.90
3	D	360	HIS	CA-C-N	5.33	128.05	120.49
3	D	360	HIS	C-N-CA	5.33	128.05	120.49
3	D	648	ALA	O-C-N	5.33	127.77	122.12
4	E	68	GLU	CA-C-N	5.33	127.42	120.28
4	E	68	GLU	C-N-CA	5.33	127.42	120.28
4	M	619	ALA	O-C-N	-5.33	116.47	122.12
6	O	176	LEU	N-CA-C	-5.33	104.37	112.04
4	M	142	ARG	CA-C-O	5.33	126.41	120.82
2	C	31	GLY	O-C-N	5.32	128.68	122.45
2	C	205	ASP	CA-C-N	5.32	130.30	122.63
2	C	205	ASP	C-N-CA	5.32	130.30	122.63
5	F	87	GLU	CA-C-N	5.32	127.85	120.29
5	F	87	GLU	C-N-CA	5.32	127.85	120.29
6	G	90	PRO	CA-C-O	-5.32	110.91	120.60
6	G	162	ILE	CA-C-N	5.32	127.41	120.28
6	G	162	ILE	C-N-CA	5.32	127.41	120.28
6	G	749	VAL	CA-C-O	5.32	125.52	120.25
4	M	503	GLU	CA-C-O	5.32	126.19	120.55
7	Q	369	THR	CA-C-N	-5.32	113.55	122.17
7	Q	369	THR	C-N-CA	-5.32	113.55	122.17
3	L	776	ASN	CA-C-N	-5.32	113.15	120.28
3	L	776	ASN	C-N-CA	-5.32	113.15	120.28
2	C	40	MET	CA-C-N	5.32	131.70	121.54
2	C	40	MET	C-N-CA	5.32	131.70	121.54
2	C	424	ASN	N-CA-C	5.32	118.92	111.74
6	G	260	VAL	CA-C-N	5.32	128.26	120.71
6	G	260	VAL	C-N-CA	5.32	128.26	120.71
4	M	703	PRO	CA-C-N	5.32	128.81	121.26
4	M	703	PRO	C-N-CA	5.32	128.81	121.26
2	C	520	ALA	CA-C-N	5.32	127.67	120.44
2	C	520	ALA	C-N-CA	5.32	127.67	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	92	VAL	CA-C-O	-5.32	115.15	121.05
2	K	31	GLY	O-C-N	5.32	128.67	122.45
3	L	564	LEU	CA-C-O	5.32	126.17	120.70
4	M	465	LYS	O-C-N	-5.32	116.44	122.23
2	K	424	ASN	N-CA-C	5.31	118.91	111.74
3	L	77	ASP	N-CA-C	-5.31	107.10	113.21
3	D	184	HIS	N-CA-C	-5.31	100.84	108.60
5	N	62	LEU	N-CA-C	-5.31	100.03	109.06
4	M	714	THR	CA-C-O	5.31	125.74	120.32
5	F	62	LEU	N-CA-C	-5.31	100.03	109.06
7	H	18	SER	CA-C-N	-5.31	113.41	122.33
7	H	18	SER	C-N-CA	-5.31	113.41	122.33
7	H	385	SER	N-CA-C	-5.31	106.64	113.01
2	C	60	HIS	O-C-N	-5.31	115.92	122.82
2	K	60	HIS	O-C-N	-5.31	115.92	122.82
2	K	556	GLY	N-CA-C	-5.31	107.95	115.43
3	L	184	HIS	N-CA-C	-5.31	100.85	108.60
3	L	238	HIS	CA-C-O	-5.31	114.52	120.25
4	M	616	GLN	CA-C-N	5.31	127.39	120.28
4	M	616	GLN	C-N-CA	5.31	127.39	120.28
4	E	46	HIS	CA-C-N	5.31	127.73	120.46
4	E	46	HIS	C-N-CA	5.31	127.73	120.46
4	E	557	GLY	O-C-N	5.30	128.21	122.96
5	F	59	ILE	O-C-N	-5.30	117.46	123.03
3	L	1	MET	CA-C-N	5.30	125.21	119.85
3	L	1	MET	C-N-CA	5.30	125.21	119.85
7	H	369	THR	CA-C-N	-5.30	113.58	122.17
7	H	369	THR	C-N-CA	-5.30	113.58	122.17
2	K	520	ALA	CA-C-N	5.30	127.65	120.44
2	K	520	ALA	C-N-CA	5.30	127.65	120.44
2	K	721	LYS	N-CA-C	5.30	117.14	111.36
4	M	822	ASN	O-C-N	-5.30	116.22	122.58
2	C	78	TRP	CA-C-N	5.30	129.66	122.19
2	C	78	TRP	C-N-CA	5.30	129.66	122.19
3	D	401	SER	CA-C-N	5.30	131.49	122.37
3	D	401	SER	C-N-CA	5.30	131.49	122.37
2	K	512	VAL	CA-C-N	-5.30	116.20	123.14
2	K	512	VAL	C-N-CA	-5.30	116.20	123.14
4	M	68	GLU	CA-C-N	5.30	127.38	120.28
4	M	68	GLU	C-N-CA	5.30	127.38	120.28
6	O	315	GLU	CA-C-N	5.30	130.47	122.99
6	O	315	GLU	C-N-CA	5.30	130.47	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	849	THR	CA-C-O	-5.30	115.41	121.40
4	E	66	ALA	CA-C-N	5.30	127.38	120.28
4	E	66	ALA	C-N-CA	5.30	127.38	120.28
3	L	608	LYS	O-C-N	5.30	128.79	122.27
7	P	369	THR	CA-C-N	-5.30	113.58	122.17
7	P	369	THR	C-N-CA	-5.30	113.58	122.17
4	M	566	THR	CA-C-N	5.30	127.38	120.28
4	M	566	THR	C-N-CA	5.30	127.38	120.28
6	O	758	VAL	N-CA-C	-5.30	100.23	108.81
3	D	468	ILE	O-C-N	-5.30	117.43	123.10
6	G	180	PHE	N-CA-C	-5.30	99.52	110.80
3	D	530	VAL	CA-C-N	5.29	127.98	119.98
3	D	530	VAL	C-N-CA	5.29	127.98	119.98
4	E	465	LYS	O-C-N	-5.29	116.46	122.23
4	E	535	LEU	N-CA-C	5.29	116.86	111.14
6	G	176	LEU	N-CA-C	-5.29	104.42	112.04
6	O	90	PRO	CA-C-O	-5.29	110.97	120.60
2	C	703	LEU	O-C-N	5.29	127.73	122.12
4	E	30	GLU	CA-C-N	5.29	129.06	120.60
4	E	30	GLU	C-N-CA	5.29	129.06	120.60
3	L	493	GLU	N-CA-C	5.29	117.13	111.36
6	G	849	THR	CA-C-O	-5.29	115.42	121.40
3	D	1	MET	CA-C-N	5.29	125.19	119.85
3	D	1	MET	C-N-CA	5.29	125.19	119.85
3	D	754	ALA	CA-C-N	5.29	127.37	120.28
3	D	754	ALA	C-N-CA	5.29	127.37	120.28
6	G	225	LEU	CA-C-O	-5.29	114.94	120.55
5	N	50	ASN	N-CA-C	5.29	117.05	111.28
6	O	180	PHE	N-CA-C	-5.29	99.54	110.80
4	E	566	THR	CA-C-N	5.29	127.36	120.28
4	E	566	THR	C-N-CA	5.29	127.36	120.28
6	G	558	ALA	CA-C-O	-5.29	112.95	120.51
4	M	46	HIS	CA-C-N	5.29	127.70	120.46
4	M	46	HIS	C-N-CA	5.29	127.70	120.46
6	O	225	LEU	CA-C-O	-5.29	114.95	120.55
3	D	238	HIS	CA-C-O	-5.28	114.54	120.25
6	G	461	ILE	CA-C-N	5.28	127.36	120.28
6	G	461	ILE	C-N-CA	5.28	127.36	120.28
3	L	401	SER	CA-C-N	5.28	131.46	122.37
3	L	401	SER	C-N-CA	5.28	131.46	122.37
4	M	454	ARG	N-CA-C	5.28	116.85	111.14
2	C	721	LYS	N-CA-C	5.28	117.12	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	35	VAL	CA-C-N	5.28	127.79	120.29
6	G	35	VAL	C-N-CA	5.28	127.79	120.29
3	L	754	ALA	CA-C-N	5.28	127.36	120.28
3	L	754	ALA	C-N-CA	5.28	127.36	120.28
6	G	315	GLU	CA-C-N	5.28	130.44	122.99
6	G	315	GLU	C-N-CA	5.28	130.44	122.99
6	G	789	PRO	N-CA-C	5.28	119.51	111.11
7	H	494	PRO	CA-C-N	-5.28	116.64	123.19
7	H	494	PRO	C-N-CA	-5.28	116.64	123.19
3	L	530	VAL	CA-C-N	5.28	127.95	119.98
3	L	530	VAL	C-N-CA	5.28	127.95	119.98
6	O	162	ILE	CA-C-N	5.28	127.36	120.28
6	O	162	ILE	C-N-CA	5.28	127.36	120.28
2	C	587	PRO	CA-C-N	-5.28	113.29	122.37
2	C	587	PRO	C-N-CA	-5.28	113.29	122.37
3	D	678	ILE	CA-C-O	-5.28	115.25	120.85
5	F	139	PRO	CA-C-N	5.28	127.78	120.29
5	F	139	PRO	C-N-CA	5.28	127.78	120.29
6	G	581	PHE	N-CA-C	-5.28	99.73	108.75
6	O	558	ALA	CA-C-O	-5.28	112.96	120.51
6	G	418	ALA	N-CA-C	5.28	116.71	111.07
4	E	219	THR	N-CA-C	5.27	117.03	111.28
3	L	409	ASN	N-CA-C	-5.27	105.70	113.61
2	C	432	MET	O-C-N	5.27	128.06	121.84
3	D	409	ASN	N-CA-C	-5.27	105.70	113.61
2	K	404	ASN	O-C-N	-5.27	117.72	121.83
2	K	548	HIS	CA-C-O	5.27	127.28	121.11
6	O	260	VAL	CA-C-N	5.27	128.20	120.71
6	O	260	VAL	C-N-CA	5.27	128.20	120.71
6	O	418	ALA	N-CA-C	5.27	116.71	111.07
6	G	551	PHE	N-CA-C	-5.27	104.02	111.56
4	M	158	SER	O-C-N	5.27	127.70	122.12
6	O	369	ASN	N-CA-C	-5.27	101.06	109.23
6	O	461	ILE	CA-C-N	5.27	127.34	120.28
6	O	461	ILE	C-N-CA	5.27	127.34	120.28
2	C	797	PRO	CA-C-O	-5.27	112.92	120.56
4	M	535	LEU	N-CA-C	5.27	116.83	111.14
6	O	133	LEU	CA-C-N	5.27	127.32	120.26
6	O	133	LEU	C-N-CA	5.27	127.32	120.26
2	C	556	GLY	N-CA-C	-5.27	108.00	115.43
3	D	776	ASN	CA-C-N	-5.27	113.22	120.28
3	D	776	ASN	C-N-CA	-5.27	113.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	286	ALA	O-C-N	-5.27	115.26	121.32
6	O	487	PRO	CA-C-N	5.27	129.65	120.86
6	O	487	PRO	C-N-CA	5.27	129.65	120.86
6	O	581	PHE	N-CA-C	-5.27	99.75	108.75
2	C	396	ILE	CA-C-O	-5.26	114.38	118.85
6	G	369	ASN	N-CA-C	-5.26	101.07	109.23
4	M	219	THR	N-CA-C	5.26	117.02	111.28
6	O	558	ALA	O-C-N	5.26	129.59	122.59
2	C	699	ASN	O-C-N	5.26	129.59	122.59
3	D	208	ASP	N-CA-C	-5.26	107.04	112.93
3	D	428	PHE	N-CA-C	-5.26	101.70	109.86
2	K	432	MET	O-C-N	5.26	128.05	121.84
2	K	587	PRO	CA-C-N	-5.26	113.32	122.37
2	K	587	PRO	C-N-CA	-5.26	113.32	122.37
4	M	782	GLU	N-CA-C	-5.26	106.81	114.12
6	G	558	ALA	O-C-N	5.26	129.58	122.59
3	L	669	LYS	CA-C-O	5.26	126.34	120.82
5	F	62	LEU	CA-C-N	5.26	131.30	123.05
5	F	62	LEU	C-N-CA	5.26	131.30	123.05
3	L	678	ILE	CA-C-O	-5.26	115.28	120.85
4	M	706	CYS	N-CA-C	-5.26	101.37	109.52
6	O	579	ASN	CA-C-N	-5.26	113.95	122.36
6	O	579	ASN	C-N-CA	-5.26	113.95	122.36
2	C	44	ILE	N-CA-C	-5.25	105.96	110.74
3	D	356	GLN	O-C-N	5.25	128.14	122.15
4	E	454	ARG	N-CA-C	5.25	116.81	111.14
6	O	35	VAL	CA-C-N	5.25	127.75	120.29
6	O	35	VAL	C-N-CA	5.25	127.75	120.29
6	G	248	CYS	O-C-N	-5.25	116.55	122.12
6	G	487	PRO	CA-C-N	5.25	129.63	120.86
6	G	487	PRO	C-N-CA	5.25	129.63	120.86
3	L	595	GLN	N-CA-C	5.25	117.09	111.36
5	N	139	PRO	CA-C-N	5.25	127.75	120.29
5	N	139	PRO	C-N-CA	5.25	127.75	120.29
5	F	50	ASN	N-CA-C	5.25	117.00	111.28
7	H	89	VAL	N-CA-C	5.25	116.02	110.72
3	L	208	ASP	N-CA-C	-5.25	107.05	112.93
3	L	428	PHE	N-CA-C	-5.25	101.72	109.86
7	P	385	SER	N-CA-C	-5.25	106.71	113.01
3	L	268	ASN	CA-C-O	5.25	127.67	121.58
3	D	554	ILE	N-CA-C	-5.25	105.28	111.00
6	G	579	ASN	CA-C-N	-5.25	113.96	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	579	ASN	C-N-CA	-5.25	113.96	122.36
3	L	468	ILE	O-C-N	-5.25	117.48	123.10
4	M	179	ASN	CA-C-N	5.25	127.74	120.29
4	M	179	ASN	C-N-CA	5.25	127.74	120.29
2	C	512	VAL	CA-C-N	-5.25	116.27	123.14
2	C	512	VAL	C-N-CA	-5.25	116.27	123.14
6	G	230	LEU	CA-C-N	5.25	130.00	122.45
6	G	230	LEU	C-N-CA	5.25	130.00	122.45
6	G	758	VAL	N-CA-C	-5.25	100.31	108.81
2	K	78	TRP	CA-C-N	5.25	129.59	122.19
2	K	78	TRP	C-N-CA	5.25	129.59	122.19
3	D	268	ASN	CA-C-O	5.25	127.66	121.58
3	D	595	GLN	N-CA-C	5.25	117.08	111.36
2	C	548	HIS	CA-C-O	5.24	127.24	121.11
4	M	231	MET	O-C-N	5.24	127.68	122.12
4	M	286	ALA	O-C-N	-5.24	115.29	121.32
4	M	435	GLY	CA-C-O	5.24	126.15	120.75
3	D	177	PRO	N-CA-C	-5.24	101.67	112.47
4	E	435	GLY	CA-C-O	5.24	126.15	120.75
6	O	230	LEU	CA-C-N	5.24	130.00	122.45
6	O	230	LEU	C-N-CA	5.24	130.00	122.45
2	C	679	GLU	CA-C-N	5.24	127.64	120.46
2	C	679	GLU	C-N-CA	5.24	127.64	120.46
4	M	862	GLU	CA-C-O	-5.24	115.67	121.33
4	M	379	VAL	CA-C-O	-5.24	115.30	120.85
6	O	551	PHE	N-CA-C	-5.24	104.07	111.56
2	C	664	ALA	CA-C-N	5.23	127.29	120.28
2	C	664	ALA	C-N-CA	5.23	127.29	120.28
3	D	552	VAL	N-CA-C	-5.23	100.79	108.85
2	K	44	ILE	N-CA-C	-5.23	105.98	110.74
4	E	158	SER	O-C-N	5.23	127.67	122.12
2	K	797	PRO	CA-C-O	-5.23	112.97	120.56
3	L	177	PRO	N-CA-C	-5.23	101.70	112.47
3	L	552	VAL	N-CA-C	-5.23	100.79	108.85
3	D	425	LYS	CA-C-N	5.23	126.38	119.84
3	D	425	LYS	C-N-CA	5.23	126.38	119.84
4	M	66	ALA	CA-C-N	5.23	127.29	120.28
4	M	66	ALA	C-N-CA	5.23	127.29	120.28
5	N	62	LEU	CA-C-N	5.23	131.26	123.05
5	N	62	LEU	C-N-CA	5.23	131.26	123.05
2	K	664	ALA	CA-C-N	5.23	127.28	120.28
2	K	664	ALA	C-N-CA	5.23	127.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	530	VAL	N-CA-C	-5.23	99.63	107.37
4	M	392	ARG	N-CA-C	-5.23	105.61	112.41
6	O	48	MET	CA-C-O	-5.23	114.88	120.42
6	O	252	LEU	N-CA-C	-5.23	103.41	110.68
7	P	89	VAL	N-CA-C	5.23	116.00	110.72
3	L	425	LYS	CA-C-N	5.23	126.37	119.84
3	L	425	LYS	C-N-CA	5.23	126.37	119.84
6	G	967	SER	CA-C-N	5.22	131.10	121.70
6	G	967	SER	C-N-CA	5.22	131.10	121.70
7	P	112	ALA	O-C-N	-5.22	116.58	122.12
2	K	9	SER	O-C-N	5.22	127.64	122.10
2	K	72	ASP	CA-C-N	5.22	131.52	121.54
2	K	72	ASP	C-N-CA	5.22	131.52	121.54
3	L	356	GLN	O-C-N	5.22	128.10	122.15
6	O	413	ASN	N-CA-C	-5.22	102.79	110.52
6	O	512	GLN	O-C-N	5.22	127.66	122.12
2	K	182	ARG	N-CA-C	-5.22	100.52	109.24
2	C	72	ASP	CA-C-N	5.22	131.51	121.54
2	C	72	ASP	C-N-CA	5.22	131.51	121.54
4	E	392	ARG	N-CA-C	-5.22	105.63	112.41
6	G	48	MET	CA-C-O	-5.22	114.89	120.42
6	G	413	ASN	N-CA-C	-5.22	102.80	110.52
3	D	530	VAL	N-CA-C	-5.21	99.65	107.37
2	K	601	LEU	N-CA-C	-5.21	105.67	111.36
2	K	796	GLN	CA-C-O	-5.21	113.92	120.23
3	L	554	ILE	N-CA-C	-5.21	105.32	111.00
6	G	856	ARG	O-C-N	-5.21	116.70	122.07
3	L	643	HIS	N-CA-C	-5.21	105.68	111.36
2	C	796	GLN	CA-C-O	-5.21	113.93	120.23
2	K	751	ASN	O-C-N	-5.21	115.86	122.27
4	M	318	HIS	O-C-N	-5.21	115.33	121.32
4	M	743	ASP	CA-C-N	5.21	127.69	120.29
4	M	743	ASP	C-N-CA	5.21	127.69	120.29
7	H	112	ALA	O-C-N	-5.21	116.60	122.12
5	N	79	VAL	N-CA-C	-5.21	100.70	108.46
2	C	302	ASN	N-CA-C	-5.21	106.61	113.17
2	C	601	LEU	N-CA-C	-5.21	105.69	111.36
2	K	537	GLU	CA-C-N	5.21	131.49	121.54
2	K	537	GLU	C-N-CA	5.21	131.49	121.54
4	M	457	HIS	CA-C-O	-5.21	115.35	120.82
2	K	396	ILE	CA-C-O	-5.21	114.43	118.85
7	Q	494	PRO	CA-C-N	-5.21	116.74	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Q	494	PRO	C-N-CA	-5.21	116.74	123.19
2	C	751	ASN	O-C-N	-5.20	115.87	122.27
4	E	179	ASN	CA-C-N	5.20	127.68	120.29
4	E	179	ASN	C-N-CA	5.20	127.68	120.29
5	F	79	VAL	N-CA-C	-5.20	100.71	108.46
6	G	384	VAL	CA-C-O	-5.20	115.66	121.17
7	H	62	GLU	N-CA-C	5.20	116.87	108.08
6	G	252	LEU	N-CA-C	-5.20	103.45	110.68
7	H	47	THR	CA-C-O	-5.20	114.22	120.10
4	E	379	VAL	CA-C-O	-5.20	115.34	120.85
7	P	47	THR	CA-C-O	-5.20	114.23	120.10
4	E	231	MET	O-C-N	5.20	127.63	122.12
2	K	699	ASN	O-C-N	5.20	129.50	122.59
7	P	62	GLU	N-CA-C	5.20	116.86	108.08
7	P	457	SER	CA-C-N	-5.20	112.52	122.13
7	P	457	SER	C-N-CA	-5.20	112.52	122.13
4	E	471	LYS	O-C-N	-5.19	116.61	122.12
6	G	344	ALA	N-CA-C	-5.19	105.51	111.07
2	K	302	ASN	N-CA-C	-5.19	106.63	113.17
2	C	404	ASN	O-C-N	-5.19	117.78	121.83
2	C	537	GLU	CA-C-N	5.19	131.45	121.54
2	C	537	GLU	C-N-CA	5.19	131.45	121.54
4	E	457	HIS	CA-C-O	-5.19	115.37	120.82
2	K	703	LEU	O-C-N	5.19	127.62	122.12
4	M	661	PHE	N-CA-C	-5.19	100.72	109.07
3	D	669	LYS	CA-C-O	5.19	126.27	120.82
6	G	371	SER	N-CA-C	-5.19	104.56	111.87
5	N	27	PHE	N-CA-C	5.19	117.62	108.75
6	O	248	CYS	O-C-N	-5.19	116.62	122.12
3	D	643	HIS	N-CA-C	-5.19	105.71	111.36
6	G	133	LEU	CA-C-N	5.19	127.21	120.26
6	G	133	LEU	C-N-CA	5.19	127.21	120.26
3	L	357	THR	N-CA-C	-5.19	100.24	109.06
6	O	967	SER	CA-C-N	5.19	131.03	121.70
6	O	967	SER	C-N-CA	5.19	131.03	121.70
7	Q	457	SER	CA-C-N	-5.19	112.54	122.13
7	Q	457	SER	C-N-CA	-5.19	112.54	122.13
3	D	357	THR	N-CA-C	-5.18	100.25	109.06
6	O	371	SER	N-CA-C	-5.18	104.56	111.87
7	P	494	PRO	CA-C-N	-5.18	116.76	123.19
7	P	494	PRO	C-N-CA	-5.18	116.76	123.19
3	D	639	THR	N-CA-C	-5.18	105.71	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	106	ARG	CA-C-N	5.18	127.22	120.28
6	G	106	ARG	C-N-CA	5.18	127.22	120.28
2	C	182	ARG	N-CA-C	-5.18	100.59	109.24
2	C	233	ARG	N-CA-C	-5.18	100.28	108.73
2	K	233	ARG	N-CA-C	-5.18	100.29	108.73
2	K	441	LYS	CA-C-N	5.18	131.44	121.54
2	K	441	LYS	C-N-CA	5.18	131.44	121.54
2	C	9	SER	O-C-N	5.18	127.59	122.10
7	H	57	VAL	CA-C-N	-5.18	113.50	122.10
7	H	57	VAL	C-N-CA	-5.18	113.50	122.10
2	C	112	SER	CA-C-O	5.18	127.59	121.58
5	F	27	PHE	N-CA-C	5.18	117.60	108.75
6	G	919	ASP	N-CA-C	-5.18	101.84	109.86
6	O	199	HIS	CA-C-O	-5.18	115.19	120.99
6	O	344	ALA	N-CA-C	-5.18	105.53	111.07
6	O	856	ARG	O-C-N	-5.18	116.74	122.07
4	E	318	HIS	O-C-N	-5.17	115.37	121.32
6	O	525	SER	N-CA-C	-5.17	99.91	108.75
7	H	118	ALA	CA-C-O	-5.17	114.77	120.30
5	N	93	VAL	CA-C-N	5.17	127.21	120.28
5	N	93	VAL	C-N-CA	5.17	127.21	120.28
6	O	837	ILE	N-CA-C	5.17	120.10	109.34
6	G	95	LEU	CA-C-N	5.17	130.64	121.80
6	G	95	LEU	C-N-CA	5.17	130.64	121.80
7	H	457	SER	CA-C-N	-5.17	112.57	122.13
7	H	457	SER	C-N-CA	-5.17	112.57	122.13
2	K	404	ASN	N-CA-C	-5.17	101.44	108.11
2	K	679	GLU	CA-C-N	5.17	127.54	120.46
2	K	679	GLU	C-N-CA	5.17	127.54	120.46
6	O	41	ALA	CA-C-N	5.17	127.20	120.28
6	O	41	ALA	C-N-CA	5.17	127.20	120.28
3	D	637	VAL	CA-C-N	5.17	128.67	121.02
3	D	637	VAL	C-N-CA	5.17	128.67	121.02
6	G	525	SER	N-CA-C	-5.17	99.91	108.75
6	O	951	MET	N-CA-C	-5.17	106.38	113.30
2	K	382	ARG	CA-C-N	5.16	131.40	121.54
2	K	382	ARG	C-N-CA	5.16	131.40	121.54
4	M	863	GLU	CA-C-O	5.16	125.89	120.42
6	O	950	GLY	N-CA-C	-5.16	100.94	113.18
4	M	471	LYS	O-C-N	-5.16	116.65	122.12
1	J	130	LEU	CA-C-N	5.16	124.61	119.24
1	J	130	LEU	C-N-CA	5.16	124.61	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	21	ARG	CA-C-O	-5.16	115.73	120.94
2	C	382	ARG	CA-C-N	5.16	131.39	121.54
2	C	382	ARG	C-N-CA	5.16	131.39	121.54
6	G	512	GLN	O-C-N	5.16	127.59	122.12
6	G	837	ILE	N-CA-C	5.16	120.07	109.34
6	O	154	ASN	N-CA-C	-5.16	105.66	111.28
2	C	441	LYS	CA-C-N	5.16	131.39	121.54
2	C	441	LYS	C-N-CA	5.16	131.39	121.54
6	O	576	LYS	CA-C-N	5.16	131.39	121.54
6	O	576	LYS	C-N-CA	5.16	131.39	121.54
3	D	116	THR	N-CA-C	-5.16	101.35	109.50
6	G	199	HIS	CA-C-O	-5.16	115.22	120.99
7	P	416	GLY	CA-C-N	5.16	127.74	120.42
7	P	416	GLY	C-N-CA	5.16	127.74	120.42
6	G	323	MET	CA-C-N	5.15	127.70	120.28
6	G	323	MET	C-N-CA	5.15	127.70	120.28
2	K	242	VAL	CA-C-N	5.15	130.66	122.62
2	K	242	VAL	C-N-CA	5.15	130.66	122.62
5	N	71	SER	CA-C-N	5.15	131.38	121.54
5	N	71	SER	C-N-CA	5.15	131.38	121.54
2	C	344	LEU	CA-C-O	5.15	127.88	120.51
3	D	203	ILE	CA-C-O	-5.15	115.30	121.28
5	F	71	SER	CA-C-N	5.15	131.38	121.54
5	F	71	SER	C-N-CA	5.15	131.38	121.54
7	H	20	GLN	N-CA-C	-5.15	98.87	107.99
4	M	81	ASP	N-CA-C	-5.15	100.47	109.48
6	O	95	LEU	CA-C-N	5.15	130.61	121.80
6	O	95	LEU	C-N-CA	5.15	130.61	121.80
7	P	433	SER	N-CA-C	-5.15	103.80	110.19
6	G	950	GLY	N-CA-C	-5.15	100.98	113.18
7	P	20	GLN	N-CA-C	-5.15	98.88	107.99
3	D	522	GLU	CA-C-N	5.15	127.50	120.35
3	D	522	GLU	C-N-CA	5.15	127.50	120.35
6	G	951	MET	N-CA-C	-5.15	106.40	113.30
3	L	203	ILE	CA-C-O	-5.15	115.31	121.28
3	L	637	VAL	CA-C-N	5.15	128.64	121.02
3	L	637	VAL	C-N-CA	5.15	128.64	121.02
3	L	580	LEU	CA-C-N	5.15	132.79	123.27
3	L	580	LEU	C-N-CA	5.15	132.79	123.27
6	O	919	ASP	N-CA-C	-5.15	101.88	109.86
1	A	130	LEU	CA-C-N	5.14	124.59	119.24
1	A	130	LEU	C-N-CA	5.14	124.59	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	384	VAL	CA-C-O	-5.14	115.72	121.17
2	C	85	CYS	O-C-N	5.14	129.10	122.93
2	C	404	ASN	N-CA-C	-5.14	101.48	108.11
4	E	81	ASP	N-CA-C	-5.14	100.48	109.48
3	L	611	PRO	O-C-N	5.14	129.13	122.24
6	O	128	LYS	N-CA-C	-5.14	106.60	112.92
6	G	128	LYS	N-CA-C	-5.14	106.60	112.92
1	I	130	LEU	CA-C-N	5.14	124.59	119.24
1	I	130	LEU	C-N-CA	5.14	124.59	119.24
3	L	639	THR	N-CA-C	-5.14	105.76	111.36
6	O	106	ARG	CA-C-N	5.14	127.17	120.28
6	O	106	ARG	C-N-CA	5.14	127.17	120.28
6	O	244	ARG	CA-C-N	5.14	127.17	120.28
6	O	244	ARG	C-N-CA	5.14	127.17	120.28
7	P	118	ALA	CA-C-O	-5.14	114.80	120.30
2	C	21	ARG	CA-C-O	-5.14	115.75	120.94
6	O	323	MET	CA-C-N	5.14	127.68	120.28
6	O	323	MET	C-N-CA	5.14	127.68	120.28
3	D	580	LEU	CA-C-N	5.13	132.77	123.27
3	D	580	LEU	C-N-CA	5.13	132.77	123.27
7	H	416	GLY	CA-C-N	5.13	127.71	120.42
7	H	416	GLY	C-N-CA	5.13	127.71	120.42
3	L	3	LEU	O-C-N	-5.13	117.63	123.48
3	L	116	THR	N-CA-C	-5.13	101.39	109.50
4	M	772	PHE	CA-C-N	5.13	127.16	120.28
4	M	772	PHE	C-N-CA	5.13	127.16	120.28
3	D	611	PRO	O-C-N	5.13	129.12	122.24
2	K	112	SER	CA-C-O	5.13	127.53	121.58
7	P	57	VAL	CA-C-N	-5.13	113.58	122.10
7	P	57	VAL	C-N-CA	-5.13	113.58	122.10
1	B	130	LEU	CA-C-N	5.13	124.58	119.24
1	B	130	LEU	C-N-CA	5.13	124.58	119.24
6	G	41	ALA	CA-C-N	5.13	127.16	120.28
6	G	41	ALA	C-N-CA	5.13	127.16	120.28
6	G	492	GLU	N-CA-C	5.13	116.95	111.36
3	L	330	MET	N-CA-C	-5.13	100.94	108.79
3	D	3	LEU	O-C-N	-5.13	117.63	123.48
2	C	242	VAL	CA-C-N	5.13	130.62	122.62
2	C	242	VAL	C-N-CA	5.13	130.62	122.62
3	L	522	GLU	CA-C-N	5.13	127.48	120.35
3	L	522	GLU	C-N-CA	5.13	127.48	120.35
4	M	256	GLU	N-CA-C	-5.13	99.88	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	144	LEU	CA-C-O	5.13	125.84	119.79
6	O	416	ALA	CA-C-N	5.13	127.15	120.28
6	O	416	ALA	C-N-CA	5.13	127.15	120.28
3	D	173	GLY	CA-C-O	5.12	125.94	120.30
3	D	777	LEU	N-CA-C	5.12	116.86	111.28
6	G	244	ARG	CA-C-N	5.12	127.14	120.28
6	G	244	ARG	C-N-CA	5.12	127.14	120.28
7	H	433	SER	N-CA-C	-5.12	103.84	110.19
3	L	598	VAL	CA-C-N	5.12	127.15	120.28
3	L	598	VAL	C-N-CA	5.12	127.15	120.28
3	D	598	VAL	CA-C-N	5.12	127.14	120.28
3	D	598	VAL	C-N-CA	5.12	127.14	120.28
4	E	256	GLU	N-CA-C	-5.12	99.89	110.80
2	K	640	HIS	O-C-N	-5.12	116.80	122.07
4	M	802	GLY	CA-C-O	-5.12	115.47	120.75
6	G	20	PRO	O-C-N	-5.12	115.42	121.46
3	D	330	MET	N-CA-C	-5.12	100.96	108.79
6	G	576	LYS	CA-C-N	5.12	131.31	121.54
6	G	576	LYS	C-N-CA	5.12	131.31	121.54
6	G	939	THR	N-CA-C	-5.12	99.90	110.80
4	M	68	GLU	N-CA-C	5.12	116.86	111.28
3	D	283	SER	N-CA-C	5.12	121.69	110.80
3	L	173	GLY	CA-C-O	5.12	125.93	120.30
2	K	344	LEU	CA-C-O	5.11	127.82	120.51
3	L	217	GLN	CA-C-O	5.11	125.97	120.55
3	L	777	LEU	N-CA-C	5.11	116.85	111.28
6	O	393	ARG	N-CA-C	5.11	116.66	111.14
6	O	939	THR	N-CA-C	-5.11	99.91	110.80
6	O	20	PRO	O-C-N	-5.11	115.43	121.46
6	O	492	GLU	N-CA-C	5.11	116.93	111.36
5	F	86	ASN	CA-C-N	5.11	127.12	120.28
5	F	86	ASN	C-N-CA	5.11	127.12	120.28
7	Q	416	GLY	CA-C-N	5.11	127.67	120.42
7	Q	416	GLY	C-N-CA	5.11	127.67	120.42
5	F	93	VAL	CA-C-N	5.11	127.12	120.28
5	F	93	VAL	C-N-CA	5.11	127.12	120.28
3	L	335	ILE	CA-C-N	5.11	131.29	121.54
3	L	335	ILE	C-N-CA	5.11	131.29	121.54
6	O	296	ASN	O-C-N	5.11	128.37	121.83
3	D	358	ILE	N-CA-C	-5.10	100.72	108.17
4	M	42	ARG	N-CA-C	5.10	116.53	111.07
4	M	758	VAL	O-C-N	-5.10	117.67	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	700	PHE	CA-C-N	5.10	127.12	120.28
2	C	700	PHE	C-N-CA	5.10	127.12	120.28
6	G	416	ALA	CA-C-N	5.10	127.12	120.28
6	G	416	ALA	C-N-CA	5.10	127.12	120.28
4	M	819	VAL	CA-C-N	5.10	125.26	119.90
4	M	819	VAL	C-N-CA	5.10	125.26	119.90
2	C	640	HIS	O-C-N	-5.10	116.82	122.07
3	D	335	ILE	CA-C-N	5.10	131.28	121.54
3	D	335	ILE	C-N-CA	5.10	131.28	121.54
3	D	695	ASP	O-C-N	-5.10	116.74	122.86
3	D	217	GLN	CA-C-O	5.10	125.95	120.55
3	D	228	HIS	CA-C-N	5.10	131.11	122.65
3	D	228	HIS	C-N-CA	5.10	131.11	122.65
3	L	695	ASP	O-C-N	-5.10	116.74	122.86
6	O	759	LEU	N-CA-C	-5.10	100.14	108.76
3	D	539	SER	CA-C-N	5.09	130.28	122.69
3	D	539	SER	C-N-CA	5.09	130.28	122.69
4	E	68	GLU	N-CA-C	5.09	116.83	111.28
2	K	758	ALA	CA-C-N	5.09	127.37	120.44
2	K	758	ALA	C-N-CA	5.09	127.37	120.44
3	L	539	SER	CA-C-N	5.09	130.28	122.69
3	L	539	SER	C-N-CA	5.09	130.28	122.69
6	G	296	ASN	O-C-N	5.09	128.35	121.83
6	G	393	ARG	N-CA-C	5.09	116.64	111.14
2	K	85	CYS	O-C-N	5.09	129.04	122.93
4	E	134	SER	CA-C-N	5.09	127.05	120.44
4	E	134	SER	C-N-CA	5.09	127.05	120.44
3	L	283	SER	N-CA-C	5.09	121.64	110.80
7	Q	433	SER	N-CA-C	-5.09	103.88	110.19
4	M	134	SER	CA-C-N	5.09	127.05	120.44
4	M	134	SER	C-N-CA	5.09	127.05	120.44
6	G	70	GLN	N-CA-C	-5.08	106.86	113.16
6	O	833	VAL	N-CA-C	-5.08	101.05	108.17
3	D	731	SER	N-CA-C	5.08	116.82	111.28
2	C	758	ALA	CA-C-N	5.08	127.35	120.44
2	C	758	ALA	C-N-CA	5.08	127.35	120.44
6	G	263	GLU	N-CA-C	-5.08	106.67	112.92
6	G	833	VAL	N-CA-C	-5.08	101.06	108.17
2	K	246	ARG	N-CA-C	-5.08	100.76	109.24
3	L	358	ILE	N-CA-C	-5.08	100.75	108.17
4	E	454	ARG	CA-C-O	-5.08	115.47	120.70
6	G	144	LEU	CA-C-O	5.07	125.78	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	771	ALA	CA-C-O	5.07	125.92	120.55
6	G	759	LEU	N-CA-C	-5.07	100.19	108.76
6	O	263	GLU	N-CA-C	-5.07	106.68	112.92
2	K	746	VAL	CA-C-O	-5.07	115.80	121.17
5	N	86	ASN	CA-C-N	5.07	127.07	120.28
5	N	86	ASN	C-N-CA	5.07	127.07	120.28
2	C	376	ALA	CA-C-N	5.07	129.98	122.94
2	C	376	ALA	C-N-CA	5.07	129.98	122.94
3	D	480	ALA	CA-C-O	5.07	125.95	120.43
6	O	70	GLN	N-CA-C	-5.06	106.88	113.16
2	C	246	ARG	N-CA-C	-5.06	100.78	109.24
3	L	228	HIS	CA-C-N	5.06	131.05	122.65
3	L	228	HIS	C-N-CA	5.06	131.05	122.65
2	C	389	SER	O-C-N	-5.06	119.31	123.11
6	G	154	ASN	N-CA-C	-5.06	105.66	111.07
2	C	715	LYS	CA-C-N	5.06	127.06	120.28
2	C	715	LYS	C-N-CA	5.06	127.06	120.28
3	D	322	VAL	CA-C-O	-5.06	115.98	121.19
2	K	136	HIS	N-CA-C	-5.06	100.82	108.46
3	D	246	THR	CA-C-N	5.06	126.26	121.46
3	D	246	THR	C-N-CA	5.06	126.26	121.46
4	E	490	GLY	CA-C-N	5.06	127.47	120.29
4	E	490	GLY	C-N-CA	5.06	127.47	120.29
3	L	480	ALA	CA-C-O	5.05	125.94	120.43
6	O	432	ASP	CA-C-N	5.05	129.58	122.46
6	O	432	ASP	C-N-CA	5.05	129.58	122.46
3	D	247	GLY	N-CA-C	-5.05	103.17	110.90
6	G	903	CYS	O-C-N	-5.05	117.03	123.24
2	K	389	SER	O-C-N	-5.05	119.32	123.11
2	K	715	LYS	CA-C-N	5.05	127.05	120.28
2	K	715	LYS	C-N-CA	5.05	127.05	120.28
2	K	771	ALA	CA-C-O	5.05	125.90	120.55
3	L	28	PRO	N-CA-C	-5.05	108.91	114.92
4	M	316	MET	CA-C-O	5.05	126.78	121.33
7	H	3	LEU	CA-C-N	5.05	127.36	120.54
7	H	3	LEU	C-N-CA	5.05	127.36	120.54
3	L	731	SER	N-CA-C	5.05	116.78	111.28
6	O	858	MET	CA-C-N	5.05	127.00	120.44
6	O	858	MET	C-N-CA	5.05	127.00	120.44
2	C	388	ASN	O-C-N	5.05	129.13	123.48
2	K	568	ILE	CA-C-N	5.05	130.90	122.73
2	K	568	ILE	C-N-CA	5.05	130.90	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	146	MET	CA-C-O	-5.05	115.07	120.42
4	M	454	ARG	CA-C-O	-5.04	115.50	120.70
2	K	388	ASN	O-C-N	5.04	129.13	123.48
2	C	109	LEU	N-CA-C	-5.04	101.47	109.59
6	G	176	LEU	CA-C-O	5.04	126.61	120.31
6	G	294	ASP	CA-C-O	-5.04	115.21	120.55
2	K	376	ALA	CA-C-N	5.04	129.95	122.94
2	K	376	ALA	C-N-CA	5.04	129.95	122.94
4	M	127	ALA	O-C-N	-5.04	116.88	122.07
4	M	490	GLY	CA-C-N	5.04	127.45	120.29
4	M	490	GLY	C-N-CA	5.04	127.45	120.29
3	L	756	PHE	CA-C-N	5.04	127.03	120.28
3	L	756	PHE	C-N-CA	5.04	127.03	120.28
2	K	803	PRO	N-CA-C	-5.04	102.09	112.47
6	O	194	PHE	N-CA-C	-5.04	100.07	110.80
3	D	28	PRO	N-CA-C	-5.04	108.93	114.92
3	D	756	PHE	CA-C-N	5.04	127.03	120.28
3	D	756	PHE	C-N-CA	5.04	127.03	120.28
6	G	829	ARG	N-CA-C	-5.04	99.72	109.24
3	L	246	THR	CA-C-N	5.04	126.25	121.46
3	L	246	THR	C-N-CA	5.04	126.25	121.46
6	O	176	LEU	CA-C-O	5.04	126.61	120.31
7	H	324	GLY	N-CA-C	-5.03	104.31	112.31
6	O	771	CYS	CA-C-O	5.03	126.42	120.58
7	P	324	GLY	N-CA-C	-5.03	104.31	112.31
2	C	576	ASN	CA-C-O	-5.03	115.09	120.42
6	G	194	PHE	N-CA-C	-5.03	100.08	110.80
6	G	759	LEU	CA-C-N	-5.03	116.55	123.14
6	G	759	LEU	C-N-CA	-5.03	116.55	123.14
7	H	497	PHE	CA-C-N	-5.03	112.95	121.85
7	H	497	PHE	C-N-CA	-5.03	112.95	121.85
3	L	220	THR	N-CA-C	-5.03	103.02	110.46
3	L	322	VAL	CA-C-O	-5.03	116.01	121.19
6	O	759	LEU	CA-C-N	-5.03	116.55	123.14
6	O	759	LEU	C-N-CA	-5.03	116.55	123.14
3	L	570	ASP	CA-C-N	5.03	131.15	121.54
3	L	570	ASP	C-N-CA	5.03	131.15	121.54
2	C	803	PRO	N-CA-C	-5.03	102.11	112.47
3	D	738	LEU	N-CA-C	-5.03	106.46	112.59
2	K	109	LEU	N-CA-C	-5.03	101.50	109.59
3	L	247	GLY	N-CA-C	-5.03	103.21	110.90
4	M	317	LYS	O-C-N	5.03	129.40	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	146	MET	CA-C-O	-5.02	115.09	120.42
2	C	568	ILE	CA-C-N	5.02	130.87	122.73
2	C	568	ILE	C-N-CA	5.02	130.87	122.73
4	E	42	ARG	N-CA-C	5.02	116.44	111.07
5	F	89	MET	CA-C-N	5.02	127.01	120.28
5	F	89	MET	C-N-CA	5.02	127.01	120.28
6	G	431	PHE	N-CA-C	5.02	116.77	107.73
2	K	576	ASN	CA-C-O	-5.02	115.10	120.42
4	M	771	ASN	N-CA-C	-5.02	99.92	108.26
3	D	220	THR	N-CA-C	-5.02	103.03	110.46
7	H	290	GLY	N-CA-C	-5.02	108.14	115.72
3	D	277	VAL	N-CA-C	-5.02	100.57	108.90
3	D	780	VAL	CA-C-N	5.02	131.13	121.54
3	D	780	VAL	C-N-CA	5.02	131.13	121.54
4	E	127	ALA	O-C-N	-5.02	116.90	122.07
4	E	146	GLN	CA-C-O	-5.02	115.53	120.70
6	G	432	ASP	CA-C-N	5.02	129.54	122.46
6	G	432	ASP	C-N-CA	5.02	129.54	122.46
3	L	780	VAL	CA-C-N	5.02	131.13	121.54
3	L	780	VAL	C-N-CA	5.02	131.13	121.54
3	L	738	LEU	N-CA-C	-5.02	106.47	112.59
6	O	903	CYS	O-C-N	-5.02	117.07	123.24
2	K	700	PHE	CA-C-N	5.01	127.00	120.28
2	K	700	PHE	C-N-CA	5.01	127.00	120.28
4	M	492	VAL	O-C-N	-5.01	116.66	121.83
6	O	431	PHE	N-CA-C	5.01	116.75	107.73
7	Q	324	GLY	N-CA-C	-5.01	104.34	112.31
2	C	136	HIS	N-CA-C	-5.01	100.89	108.46
2	K	256	VAL	O-C-N	-5.01	117.36	123.02
2	C	746	VAL	CA-C-O	-5.01	115.86	121.17
7	P	497	PHE	CA-C-N	-5.01	112.98	121.85
7	P	497	PHE	C-N-CA	-5.01	112.98	121.85
3	D	570	ASP	CA-C-N	5.01	131.11	121.54
3	D	570	ASP	C-N-CA	5.01	131.11	121.54
4	E	316	MET	CA-C-O	5.01	126.74	121.33
5	F	56	ASP	O-C-N	-5.01	117.37	123.13
3	D	540	VAL	N-CA-C	-5.01	108.09	112.90
4	M	483	GLU	CA-C-N	5.01	131.10	121.54
4	M	483	GLU	C-N-CA	5.01	131.10	121.54
2	C	344	LEU	N-CA-C	5.01	121.47	110.80
7	H	37	PRO	CA-C-O	-5.01	111.49	120.60
3	L	523	ILE	CA-C-O	-5.01	116.57	121.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	146	GLN	CA-C-O	-5.01	115.54	120.70
7	Q	290	GLY	N-CA-C	-5.01	108.16	115.72
2	C	552	ALA	N-CA-C	-5.00	105.72	111.07
3	D	297	VAL	O-C-N	-5.00	117.64	123.00
3	D	650	GLN	CA-C-N	5.00	127.48	120.28
3	D	650	GLN	C-N-CA	5.00	127.48	120.28
4	E	492	VAL	O-C-N	-5.00	116.68	121.83
3	L	650	GLN	CA-C-N	5.00	127.48	120.28
3	L	650	GLN	C-N-CA	5.00	127.48	120.28
4	M	290	SER	CA-C-N	5.00	128.95	120.64
4	M	290	SER	C-N-CA	5.00	128.95	120.64
4	M	668	THR	O-C-N	5.00	128.41	122.26
5	N	56	ASP	O-C-N	-5.00	117.38	123.13
4	E	78	GLN	O-C-N	5.00	127.42	122.12
4	E	483	GLU	CA-C-N	5.00	131.09	121.54
4	E	483	GLU	C-N-CA	5.00	131.09	121.54
3	L	48	THR	N-CA-C	-5.00	101.25	109.40
3	L	346	LYS	N-CA-C	-5.00	101.72	109.72
7	P	290	GLY	N-CA-C	-5.00	108.17	115.72

There are no chirality outliers.

All (50) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	317	PHE	Mainchain
2	C	380	CYS	Mainchain
2	C	559	GLY	Mainchain
2	C	63	GLN	Peptide
3	D	119	ASP	Mainchain
3	D	44	HIS	Mainchain
4	E	309	ARG	Peptide
4	E	323	THR	Peptide
4	E	442	PHE	Peptide
4	E	447	GLU	Peptide
5	F	59	ILE	Mainchain
6	G	235	CYS	Peptide
6	G	254	GLN	Peptide
6	G	274	ALA	Peptide
6	G	309	LYS	Peptide
6	G	311	HIS	Peptide
6	G	329	LEU	Peptide
6	G	331	THR	Peptide

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Mol	Chain	Res	Type	Group
6	G	348	VAL	Peptide
6	G	471	ASP	Peptide
6	G	499	GLU	Mainchain
6	G	581	PHE	Peptide
6	G	65	PHE	Mainchain
6	G	897	LYS	Peptide
6	G	91	ASP	Mainchain
2	K	317	PHE	Mainchain
2	K	380	CYS	Mainchain
2	K	559	GLY	Mainchain
2	K	63	GLN	Peptide
3	L	119	ASP	Mainchain
3	L	44	HIS	Mainchain
4	M	309	ARG	Peptide
4	M	323	THR	Peptide
4	M	442	PHE	Peptide
4	M	447	GLU	Peptide
5	N	59	ILE	Mainchain
6	O	235	CYS	Peptide
6	O	254	GLN	Peptide
6	O	274	ALA	Peptide
6	O	309	LYS	Peptide
6	O	311	HIS	Peptide
6	O	329	LEU	Peptide
6	O	331	THR	Peptide
6	O	348	VAL	Peptide
6	O	471	ASP	Peptide
6	O	499	GLU	Mainchain
6	O	581	PHE	Peptide
6	O	65	PHE	Mainchain
6	O	897	LYS	Peptide
6	O	91	ASP	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	636	0	181	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	636	0	181	1	0
1	I	636	0	181	1	0
1	J	636	0	181	1	0
2	C	3251	0	869	0	0
2	K	3251	0	869	0	0
3	D	3211	0	880	2	0
3	L	3211	0	880	2	0
4	E	2199	0	570	1	0
4	M	3294	0	852	1	0
5	F	555	0	148	0	0
5	N	555	0	148	0	0
6	G	3250	0	833	0	0
6	O	3250	0	833	0	0
7	H	1520	0	403	38	0
7	P	1520	0	403	39	0
7	Q	981	0	261	36	0
All	All	32592	0	8673	72	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 2.

All (72) 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:P:338:PHE:O	7:Q:380:CYS:C	1.68	1.37
7:H:380:CYS:C	7:Q:338:PHE:O	1.68	1.35
7:H:338:PHE:O	7:P:380:CYS:C	1.68	1.33
7:P:338:PHE:O	7:Q:380:CYS:CA	1.90	1.19
7:H:380:CYS:CA	7:Q:338:PHE:O	1.90	1.19
7:H:338:PHE:O	7:P:380:CYS:CA	1.90	1.18
7:H:380:CYS:CA	7:Q:338:PHE:C	2.30	1.02
7:P:338:PHE:C	7:Q:380:CYS:CA	2.30	1.02
7:H:338:PHE:C	7:P:380:CYS:CA	2.30	1.00
7:P:338:PHE:C	7:Q:380:CYS:C	2.32	0.98
7:H:380:CYS:C	7:Q:338:PHE:C	2.32	0.98
7:H:338:PHE:C	7:P:380:CYS:C	2.32	0.98
7:H:338:PHE:C	7:P:381:TRP:N	2.24	0.96
7:H:381:TRP:N	7:Q:338:PHE:C	2.24	0.95
7:P:338:PHE:C	7:Q:381:TRP:N	2.24	0.95
7:H:338:PHE:CA	7:P:381:TRP:N	2.29	0.95
7:P:338:PHE:CA	7:Q:381:TRP:N	2.29	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:381:TRP:N	7:Q:338:PHE:CA	2.29	0.91
7:H:341:GLU:O	7:P:381:TRP:CA	2.22	0.88
7:H:381:TRP:CA	7:Q:341:GLU:O	2.22	0.88
7:P:341:GLU:O	7:Q:381:TRP:CA	2.22	0.87
7:H:341:GLU:O	7:P:381:TRP:N	2.10	0.85
7:P:341:GLU:O	7:Q:381:TRP:N	2.10	0.85
7:H:381:TRP:N	7:Q:341:GLU:O	2.10	0.84
7:Q:296:GLU:CA	7:Q:368:THR:H	1.96	0.78
7:P:296:GLU:CA	7:P:368:THR:H	1.96	0.78
7:H:296:GLU:CA	7:H:368:THR:H	1.95	0.77
7:H:338:PHE:O	7:P:381:TRP:N	2.22	0.72
7:H:381:TRP:N	7:Q:338:PHE:O	2.22	0.69
7:H:380:CYS:C	7:Q:341:GLU:O	2.36	0.68
7:H:341:GLU:O	7:P:380:CYS:C	2.36	0.68
7:P:341:GLU:O	7:Q:380:CYS:C	2.36	0.67
7:P:338:PHE:O	7:Q:381:TRP:N	2.22	0.65
7:P:338:PHE:CA	7:Q:381:TRP:H	2.07	0.64
7:P:356:ASN:CA	7:P:362:LEU:H	2.10	0.64
7:H:381:TRP:H	7:Q:338:PHE:CA	2.07	0.64
7:Q:356:ASN:CA	7:Q:362:LEU:H	2.10	0.64
7:H:356:ASN:CA	7:H:362:LEU:H	2.10	0.64
7:H:338:PHE:CA	7:P:381:TRP:H	2.07	0.63
7:P:341:GLU:H	7:Q:379:ASN:CA	2.18	0.56
7:H:379:ASN:CA	7:Q:341:GLU:H	2.18	0.56
7:H:341:GLU:H	7:P:379:ASN:CA	2.18	0.56
7:H:382:PRO:O	7:Q:336:LYS:O	0.56	0.56
7:P:336:LYS:O	7:Q:382:PRO:O	0.56	0.56
7:H:336:LYS:O	7:P:382:PRO:O	0.56	0.55
7:H:379:ASN:N	7:Q:340:ALA:CA	2.58	0.55
7:H:340:ALA:CA	7:P:379:ASN:N	2.58	0.54
7:H:379:ASN:CA	7:Q:341:GLU:N	2.71	0.51
7:H:341:GLU:N	7:P:379:ASN:CA	2.71	0.50
7:H:356:ASN:C	7:H:362:LEU:H	2.20	0.50
7:P:356:ASN:C	7:P:362:LEU:H	2.20	0.49
7:P:340:ALA:C	7:Q:380:CYS:CA	2.82	0.49
7:Q:356:ASN:C	7:Q:362:LEU:H	2.20	0.49
7:P:341:GLU:N	7:Q:379:ASN:CA	2.71	0.47
4:M:249:SER:C	4:M:251:LEU:H	2.23	0.47
7:P:340:ALA:CA	7:Q:379:ASN:N	2.58	0.46
4:E:249:SER:C	4:E:251:LEU:H	2.23	0.45
1:I:175:ASN:O	1:I:176:SER:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:338:PHE:C	7:P:381:TRP:H	2.17	0.44
1:J:175:ASN:O	1:J:176:SER:C	2.60	0.44
1:B:175:ASN:O	1:B:176:SER:C	2.60	0.44
7:H:340:ALA:CA	7:P:379:ASN:CA	2.04	0.44
1:A:175:ASN:O	1:A:176:SER:C	2.60	0.43
7:P:338:PHE:C	7:Q:381:TRP:H	2.17	0.43
3:D:162:SER:C	3:D:164:ASP:H	2.27	0.42
3:D:76:ALA:C	3:D:78:ASP:H	2.28	0.42
3:L:162:SER:C	3:L:164:ASP:H	2.27	0.41
3:L:76:ALA:C	3:L:78:ASP:H	2.28	0.41
7:H:380:CYS:CA	7:Q:340:ALA:C	2.82	0.41
7:H:356:ASN:CA	7:H:362:LEU:N	2.83	0.40
7:H:340:ALA:C	7:P:380:CYS:CA	2.82	0.40
7:P:10:THR:C	7:P:12:ALA:H	2.30	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	157/181 (87%)	153 (98%)	4 (2%)	0	100	100
1	B	157/181 (87%)	153 (98%)	4 (2%)	0	100	100
1	I	157/181 (87%)	153 (98%)	4 (2%)	0	100	100
1	J	157/181 (87%)	153 (98%)	4 (2%)	0	100	100
2	C	811/1262 (64%)	671 (83%)	97 (12%)	43 (5%)	1	15
2	K	811/1262 (64%)	671 (83%)	97 (12%)	43 (5%)	1	15
3	D	801/905 (88%)	700 (87%)	64 (8%)	37 (5%)	2	17
3	L	801/905 (88%)	700 (87%)	64 (8%)	37 (5%)	2	17
4	E	548/874 (63%)	491 (90%)	28 (5%)	29 (5%)	1	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	M	820/874 (94%)	749 (91%)	40 (5%)	31 (4%)	2	19
5	F	137/177 (77%)	128 (93%)	7 (5%)	2 (2%)	8	40
5	N	137/177 (77%)	128 (93%)	7 (5%)	2 (2%)	8	40
6	G	809/968 (84%)	658 (81%)	84 (10%)	67 (8%)	0	9
6	O	809/968 (84%)	658 (81%)	84 (10%)	67 (8%)	0	9
7	H	376/511 (74%)	336 (89%)	31 (8%)	9 (2%)	4	27
7	P	376/511 (74%)	336 (89%)	31 (8%)	9 (2%)	4	27
7	Q	243/511 (48%)	220 (90%)	15 (6%)	8 (3%)	3	21
All	All	8107/10629 (76%)	7058 (87%)	665 (8%)	384 (5%)	3	16

All (384) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	11	ARG
2	C	227	ARG
2	C	526	GLU
2	C	572	ARG
2	C	686	ASN
3	D	6	ASP
3	D	284	ASN
3	D	329	ALA
3	D	336	LYS
3	D	350	SER
3	D	484	SER
3	D	513	ALA
3	D	615	LYS
3	D	791	PRO
3	D	795	GLU
4	E	117	GLU
4	E	280	CYS
4	E	309	ARG
4	E	323	THR
4	E	324	ALA
4	E	391	PRO
4	E	393	LYS
4	E	413	TYR
4	E	448	PHE
4	E	549	ASN
5	F	36	PRO

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Mol	Chain	Res	Type
6	G	55	LEU
6	G	69	LEU
6	G	85	VAL
6	G	90	PRO
6	G	173	ALA
6	G	181	LEU
6	G	197	LEU
6	G	237	ALA
6	G	253	LEU
6	G	275	PRO
6	G	331	THR
6	G	499	GLU
6	G	506	ILE
6	G	508	VAL
6	G	523	THR
6	G	543	ARG
6	G	770	ASN
6	G	785	GLU
6	G	792	LEU
6	G	814	ILE
6	G	826	ALA
6	G	939	THR
6	G	959	ILE
7	H	326	GLN
7	H	361	VAL
2	K	11	ARG
2	K	227	ARG
2	K	526	GLU
2	K	572	ARG
2	K	686	ASN
3	L	6	ASP
3	L	284	ASN
3	L	329	ALA
3	L	336	LYS
3	L	350	SER
3	L	484	SER
3	L	513	ALA
3	L	615	LYS
3	L	791	PRO
3	L	795	GLU
4	M	117	GLU
4	M	280	CYS

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Mol	Chain	Res	Type
4	M	309	ARG
4	M	323	THR
4	M	324	ALA
4	M	391	PRO
4	M	393	LYS
4	M	413	TYR
4	M	448	PHE
4	M	549	ASN
5	N	36	PRO
6	O	55	LEU
6	O	69	LEU
6	O	85	VAL
6	O	90	PRO
6	O	173	ALA
6	O	181	LEU
6	O	197	LEU
6	O	237	ALA
6	O	253	LEU
6	O	275	PRO
6	O	331	THR
6	O	499	GLU
6	O	506	ILE
6	O	508	VAL
6	O	523	THR
6	O	543	ARG
6	O	770	ASN
6	O	785	GLU
6	O	792	LEU
6	O	814	ILE
6	O	826	ALA
6	O	939	THR
6	O	959	ILE
7	P	326	GLN
7	P	361	VAL
7	Q	326	GLN
7	Q	361	VAL
2	C	137	TYR
2	C	226	ASP
2	C	425	ARG
2	C	441	LYS
2	C	498	ALA
2	C	538	SER

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Mol	Chain	Res	Type
2	C	546	SER
2	C	621	VAL
2	C	630	GLN
2	C	642	VAL
3	D	17	ARG
3	D	59	PRO
3	D	273	ARG
3	D	410	SER
3	D	426	PRO
3	D	630	PHE
3	D	739	ASP
4	E	263	HIS
4	E	310	THR
4	E	313	LYS
4	E	373	ASP
4	E	442	PHE
4	E	484	HIS
4	E	551	LEU
6	G	83	GLU
6	G	103	ASP
6	G	174	PRO
6	G	307	GLU
6	G	554	ALA
6	G	558	ALA
6	G	879	ASP
7	H	351	LYS
2	K	137	TYR
2	K	226	ASP
2	K	425	ARG
2	K	441	LYS
2	K	498	ALA
2	K	538	SER
2	K	546	SER
2	K	621	VAL
2	K	642	VAL
3	L	17	ARG
3	L	59	PRO
3	L	273	ARG
3	L	410	SER
3	L	426	PRO
3	L	630	PHE
3	L	739	ASP

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Mol	Chain	Res	Type
4	M	263	HIS
4	M	310	THR
4	M	313	LYS
4	M	373	ASP
4	M	442	PHE
4	M	484	HIS
4	M	551	LEU
4	M	739	THR
4	M	741	GLU
6	O	83	GLU
6	O	103	ASP
6	O	174	PRO
6	O	307	GLU
6	O	554	ALA
6	O	558	ALA
6	O	879	ASP
7	P	351	LYS
7	Q	351	LYS
2	C	205	ASP
2	C	337	LYS
2	C	345	ASP
2	C	348	SER
2	C	349	SER
2	C	387	GLU
2	C	469	ALA
2	C	594	PRO
2	C	619	LYS
2	C	624	SER
2	C	627	ALA
2	C	790	PRO
3	D	140	GLY
3	D	260	THR
3	D	272	GLU
3	D	571	ASN
3	D	601	ARG
3	D	662	VAL
3	D	694	GLN
3	D	735	GLN
4	E	256	GLU
4	E	353	SER
4	E	522	ASN
4	E	569	PRO

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Mol	Chain	Res	Type
5	F	55	THR
6	G	18	SER
6	G	22	SER
6	G	194	PHE
6	G	257	SER
6	G	259	ALA
6	G	308	LEU
6	G	318	LEU
6	G	487	PRO
6	G	501	LYS
6	G	528	SER
6	G	817	ASN
6	G	904	GLY
7	H	45	GLN
7	H	358	ASP
7	H	398	GLN
7	H	447	ALA
2	K	205	ASP
2	K	337	LYS
2	K	345	ASP
2	K	348	SER
2	K	349	SER
2	K	387	GLU
2	K	469	ALA
2	K	594	PRO
2	K	619	LYS
2	K	624	SER
2	K	627	ALA
2	K	630	GLN
2	K	790	PRO
3	L	140	GLY
3	L	260	THR
3	L	272	GLU
3	L	571	ASN
3	L	601	ARG
3	L	662	VAL
3	L	694	GLN
3	L	735	GLN
4	M	256	GLU
4	M	353	SER
4	M	522	ASN
4	M	569	PRO

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Mol	Chain	Res	Type
5	N	55	THR
6	O	18	SER
6	O	22	SER
6	O	194	PHE
6	O	257	SER
6	O	259	ALA
6	O	308	LEU
6	O	318	LEU
6	O	487	PRO
6	O	501	LYS
6	O	528	SER
6	O	817	ASN
6	O	904	GLY
7	P	45	GLN
7	P	358	ASP
7	P	398	GLN
7	P	447	ALA
7	Q	358	ASP
7	Q	398	GLN
7	Q	447	ALA
2	C	133	GLY
2	C	193	THR
2	C	271	LYS
2	C	423	ARG
2	C	452	ASN
2	C	731	GLY
3	D	89	LEU
3	D	318	LYS
3	D	734	LEU
3	D	740	ALA
3	D	787	SER
3	D	788	LEU
4	E	40	ASN
4	E	251	LEU
4	E	464	PRO
6	G	332	PRO
6	G	446	PHE
6	G	537	GLU
6	G	583	ALA
6	G	876	ASP
6	G	916	PHE
7	H	309	LYS

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Mol	Chain	Res	Type
7	H	359	VAL
2	K	133	GLY
2	K	193	THR
2	K	271	LYS
2	K	423	ARG
2	K	452	ASN
2	K	731	GLY
3	L	89	LEU
3	L	318	LYS
3	L	577	ASP
3	L	734	LEU
3	L	740	ALA
3	L	787	SER
3	L	788	LEU
4	M	40	ASN
4	M	251	LEU
4	M	464	PRO
6	O	332	PRO
6	O	446	PHE
6	O	537	GLU
6	O	583	ALA
6	O	876	ASP
6	O	916	PHE
7	P	309	LYS
7	P	359	VAL
7	Q	309	LYS
7	Q	359	VAL
2	C	470	ASP
2	C	698	LYS
2	C	793	LYS
2	C	812	THR
3	D	577	ASP
4	E	221	HIS
4	E	311	LEU
4	E	410	GLY
6	G	32	LYS
6	G	99	ILE
6	G	262	TYR
6	G	330	SER
6	G	372	GLU
6	G	794	PRO
6	G	894	THR

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Mol	Chain	Res	Type
6	G	898	ALA
6	G	900	SER
6	G	962	SER
2	K	470	ASP
2	K	698	LYS
2	K	793	LYS
2	K	812	THR
4	M	221	HIS
4	M	311	LEU
4	M	410	GLY
6	O	32	LYS
6	O	99	ILE
6	O	262	TYR
6	O	330	SER
6	O	372	GLU
6	O	794	PRO
6	O	894	THR
6	O	898	ALA
6	O	900	SER
6	O	962	SER
2	C	442	ASN
2	C	781	GLU
3	D	391	ALA
6	G	21	PRO
6	G	102	CYS
6	G	230	LEU
6	G	503	GLU
2	K	442	ASN
2	K	781	GLU
3	L	391	ALA
6	O	21	PRO
6	O	102	CYS
6	O	230	LEU
6	O	503	GLU
3	D	790	ASP
6	G	216	VAL
6	G	238	ASN
3	L	790	ASP
6	O	216	VAL
6	O	238	ASN
2	C	780	PRO
2	C	799	ALA

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Mol	Chain	Res	Type
3	D	355	PRO
6	G	540	PRO
2	K	780	PRO
2	K	799	ALA
3	L	355	PRO
6	O	540	PRO
3	D	762	LEU
4	E	278	PRO
6	G	531	ARG
4	M	278	PRO
6	O	531	ARG
4	E	556	PRO
6	G	317	VAL
3	L	200	PRO
3	L	762	LEU
4	M	556	PRO
6	O	317	VAL
2	C	247	GLY
2	C	488	ILE
3	D	200	PRO
2	K	247	GLY
2	K	488	ILE

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

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

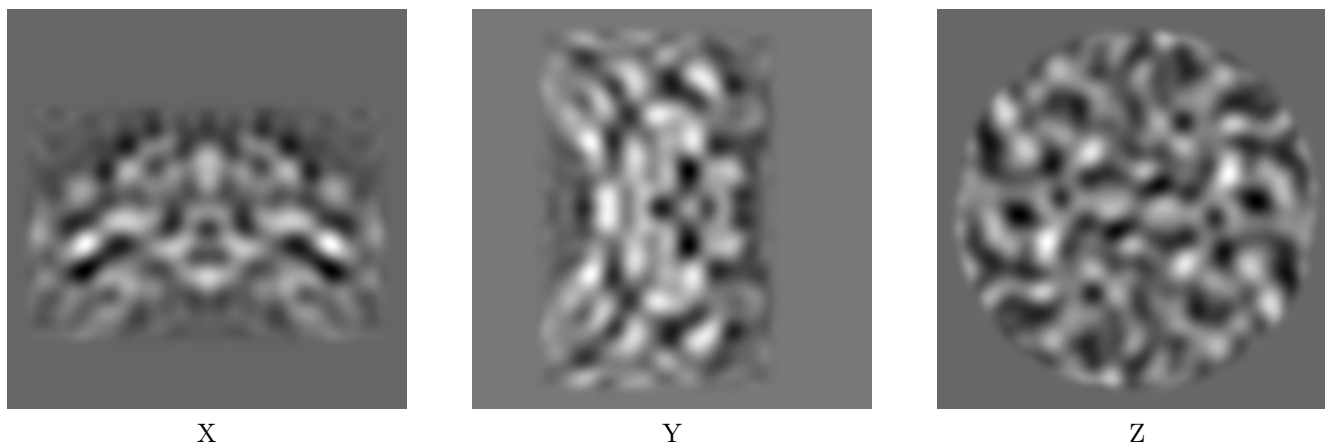
5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Tomogram visualisation [i](#)

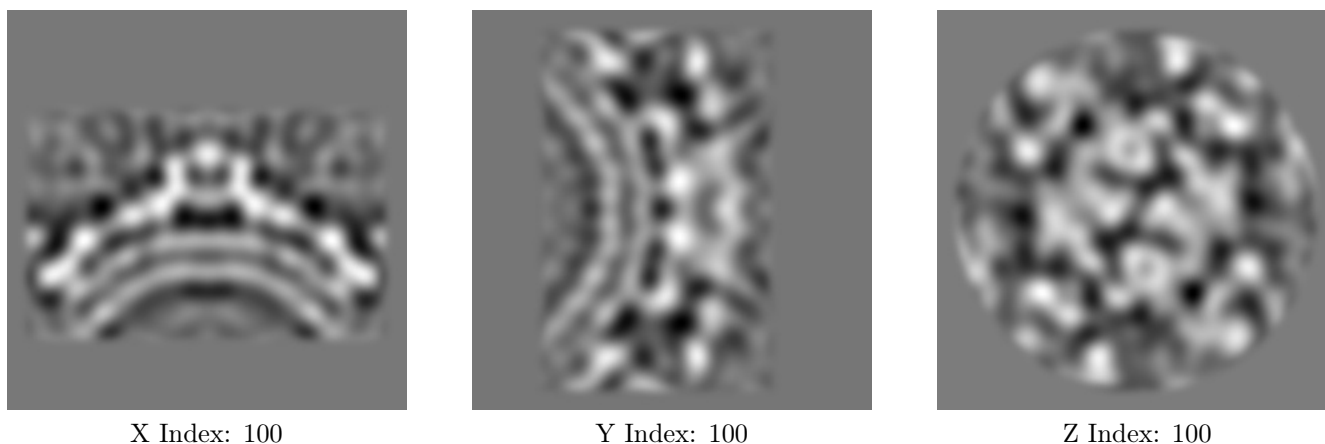
This section contains visualisations of the EMDB entry EMD-2988. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

6.1 Orthogonal projections [i](#)



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

6.2 Central slices [i](#)



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

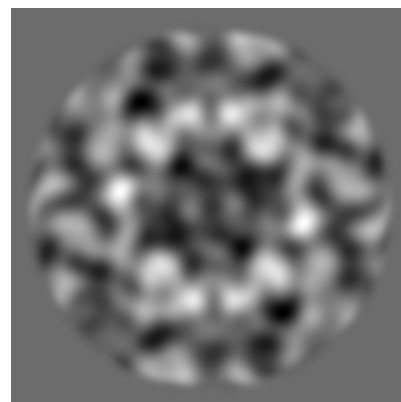
6.3 Largest variance slices [i](#)



X Index: 66



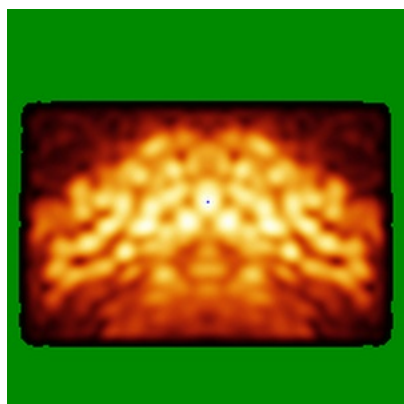
Y Index: 74



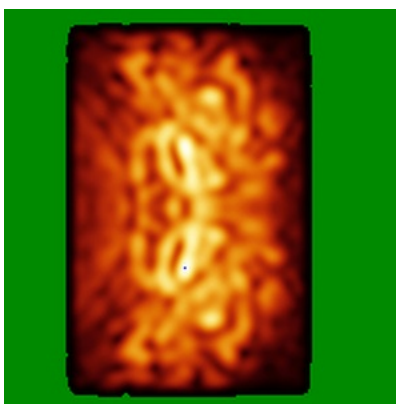
Z Index: 92

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

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



X



Y



Z

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

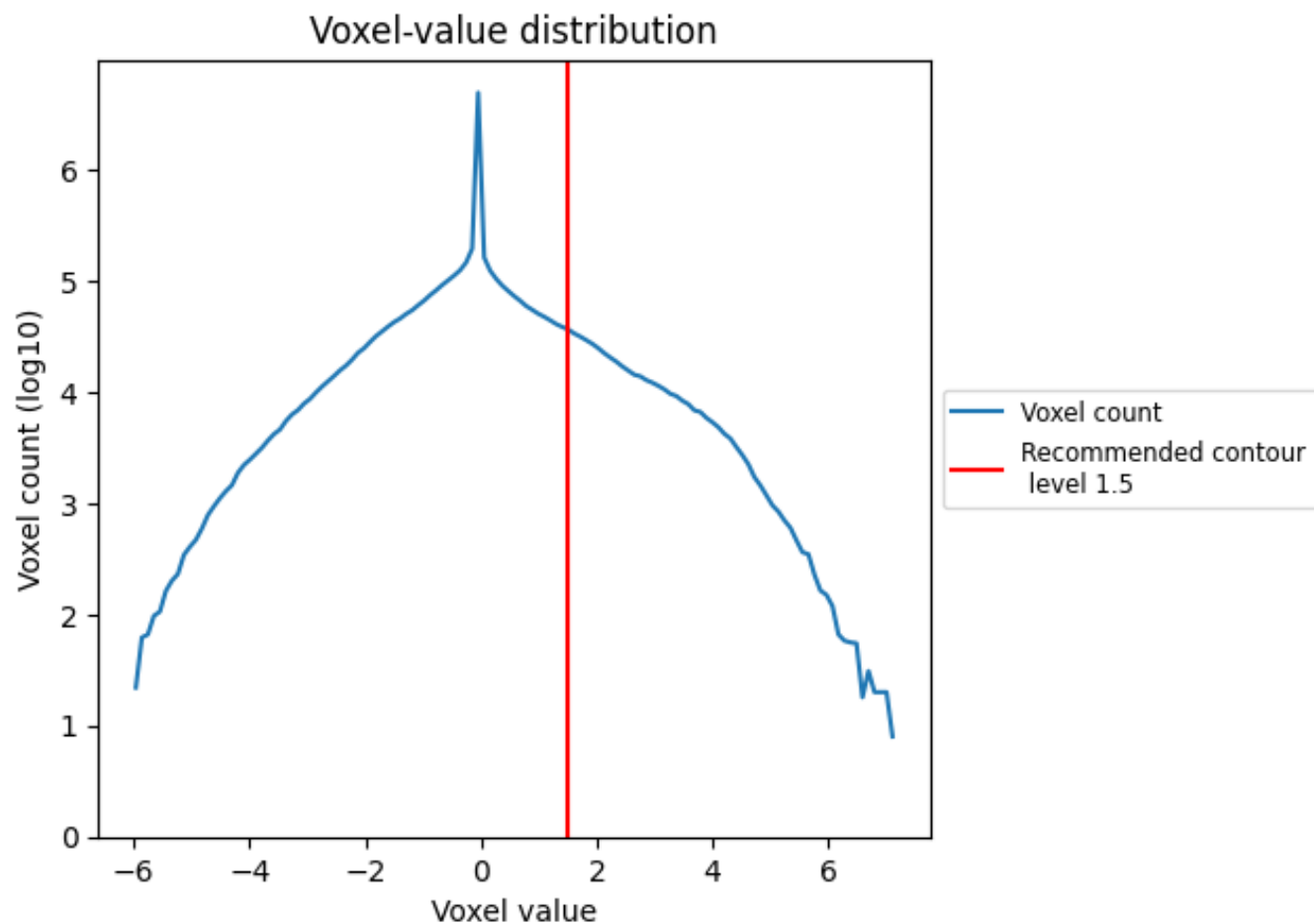
6.5 Mask visualisation [i](#)

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

7 Tomogram analysis [i](#)

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

7.1 Voxel-value distribution [i](#)



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

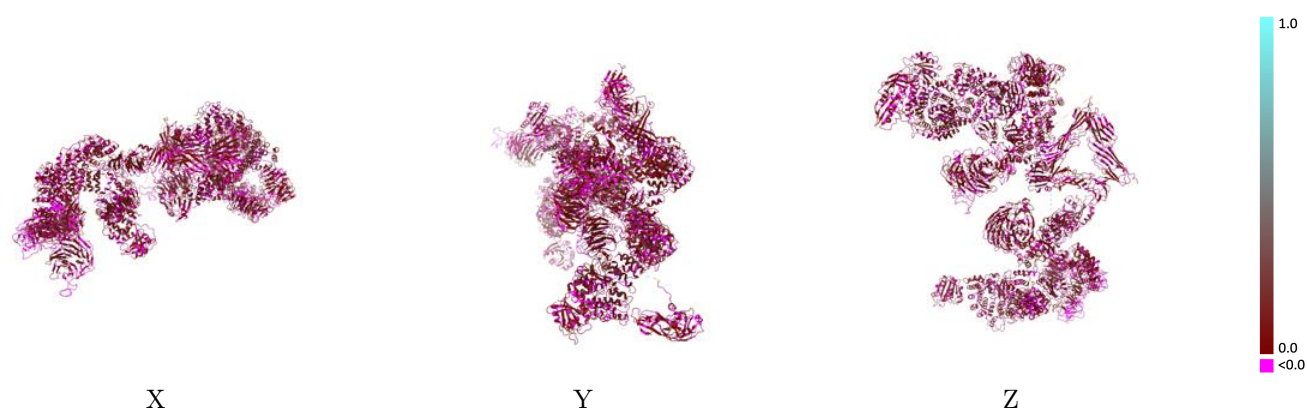
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-2988 and PDB model 5A1X. Per-residue inclusion information can be found in section 3 on page 9.

8.1 Map-model overlay [i](#)

This section was not generated.

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

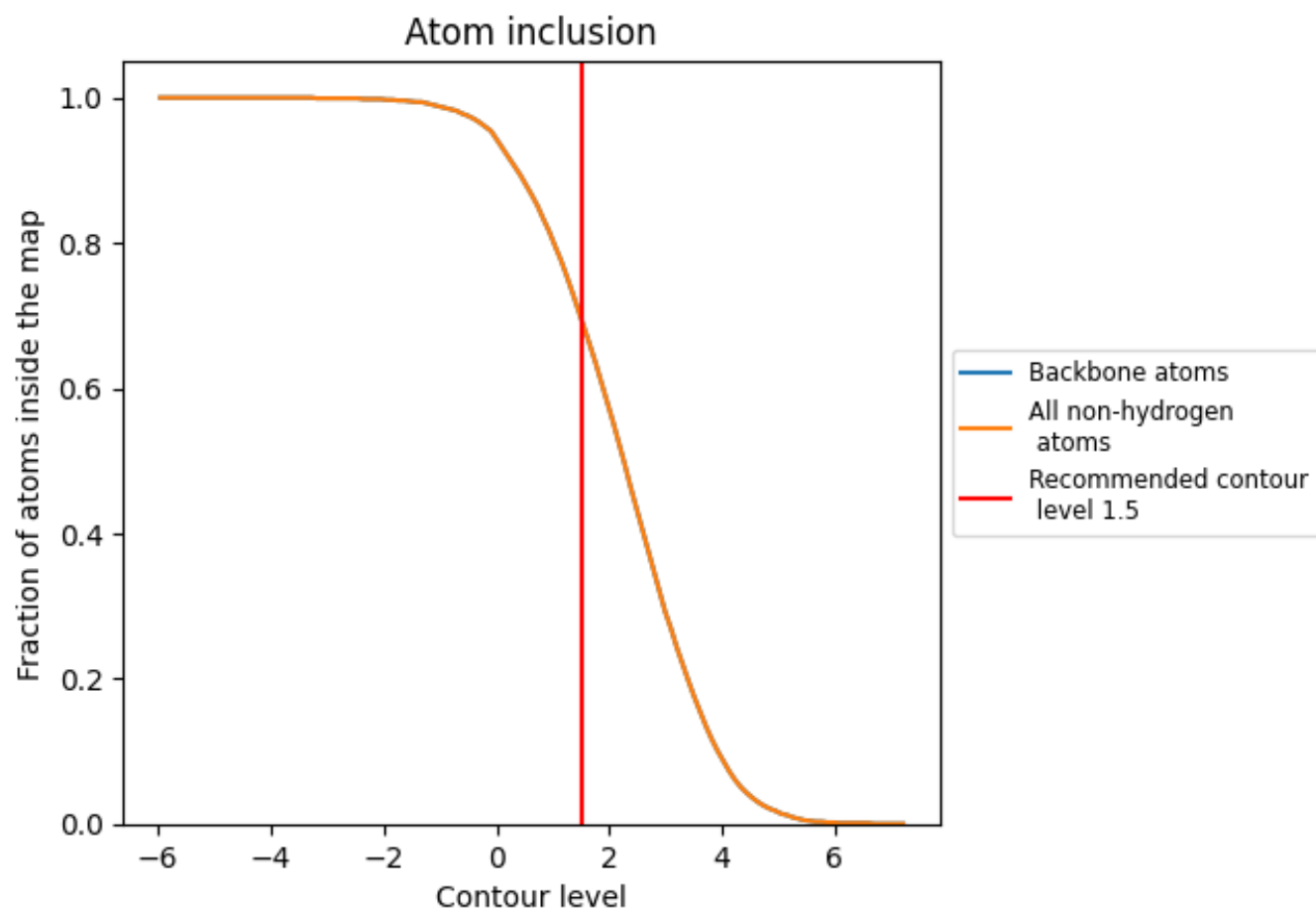


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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

This section was not generated.

8.4 Atom inclusion [i](#)



At the recommended contour level, 70% of all backbone atoms, 70% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6950	 0.0580
A	 0.5720	 0.0650
B	 0.7690	 0.0570
C	 0.4850	 0.0370
D	 0.7670	 0.0620
E	 0.7510	 0.0580
F	 0.8110	 0.0580
G	 0.7340	 0.0620
H	 0.6970	 0.0570
I	 0.7230	 0.0570
J	 0.8430	 0.0630
K	 0.6890	 0.0600
L	 0.7710	 0.0610
M	 0.6810	 0.0630
N	 0.8220	 0.0600
O	 0.6970	 0.0630
P	 0.6570	 0.0590
Q	 0.5520	 0.0480

