



Full wwPDB EM Validation Report ⓘ

Mar 4, 2026 – 06:50 PM UTC

PDB ID : 5A1Y / pdb_00005a1y
EMDB ID : EMD-2989
Title : The structure of the COPI coat linkage IV
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 : 21.00 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

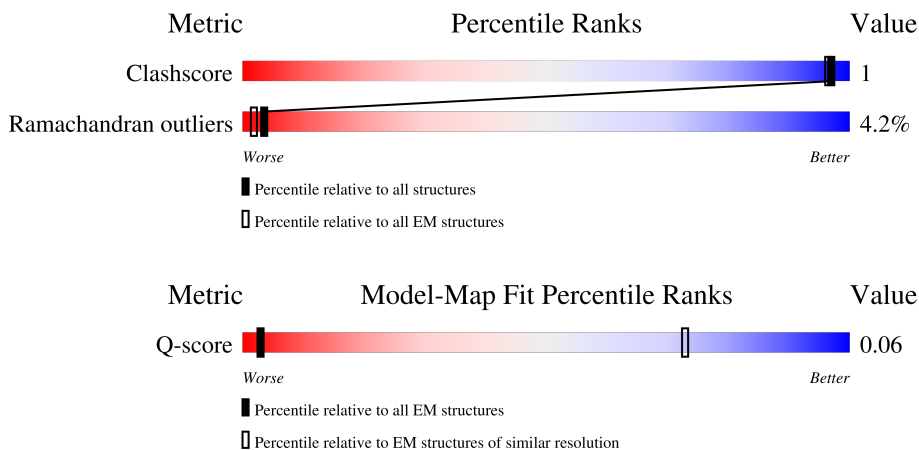
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 21.00 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	11 (20.50 - 21.00)

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	23% 86% 12%
1	B	181	8% 86% 12%
1	I	181	66% 86% 12%
1	J	181	43% 85% 12%
1	R	181	26% 86% 12%

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Mol	Chain	Length	Quality of chain
2	C	1262	
2	K	1262	
3	D	905	
3	L	905	
4	E	874	
4	M	874	
4	V	874	
5	F	177	
5	N	177	
5	W	177	
6	G	968	
6	O	968	
7	H	511	
7	P	511	
8	X	308	
8	Z	308	

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 39957 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		
1	R	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	1126	Total	C	N	O	0	0
			4503	2252	1126	1125		
2	K	1126	Total	C	N	O	0	0
			4503	2252	1126	1125		

There are 76 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
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

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1236	SER	-	expression tag	UNP Q8CIE6
C	1237	HIS	-	expression tag	UNP Q8CIE6
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

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Chain	Residue	Modelled	Actual	Comment	Reference
K	1240	PHE	-	expression tag	UNP Q8CIE6
K	1241	GLU	-	expression tag	UNP Q8CIE6
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	824	Total	C	N	O	0	0
			3294	1648	824	822		
4	M	550	Total	C	N	O	0	0
			2199	1100	550	549		
4	V	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		
5	W	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

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Chain	Residue	Modelled	Actual	Comment	Reference
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
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	135	Total	C	N	O	0	0
			539	270	135	134		

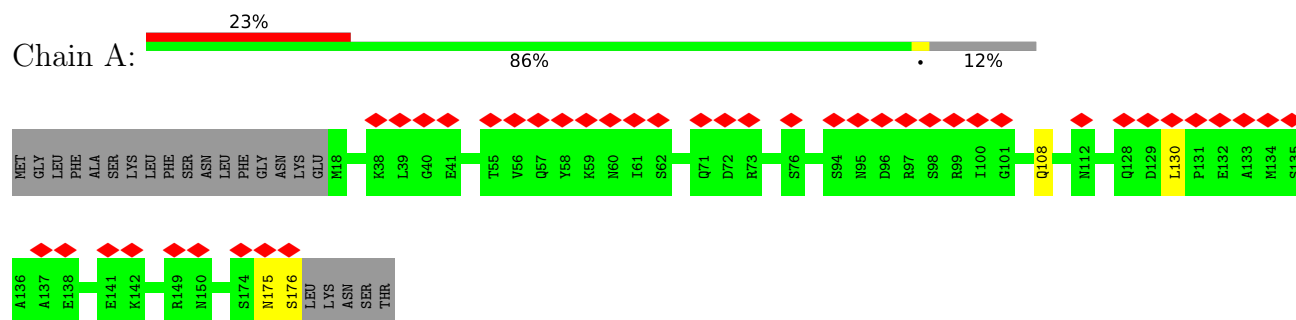
- Molecule 8 is a protein called COATOMER SUBUNIT EPSILON.

Mol	Chain	Residues	Atoms				AltConf	Trace
8	X	292	Total	C	N	O	0	0
			1169	584	292	293		
8	Z	292	Total	C	N	O	0	0
			1169	584	292	293		

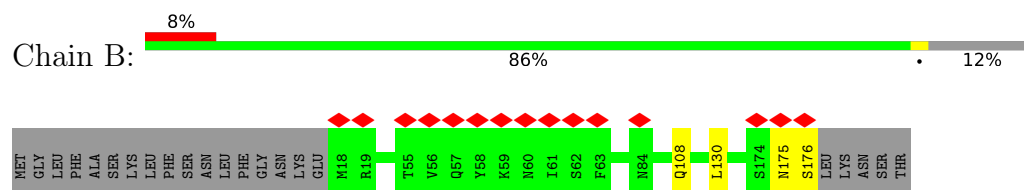
3 Residue-property plots [i](#)

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.

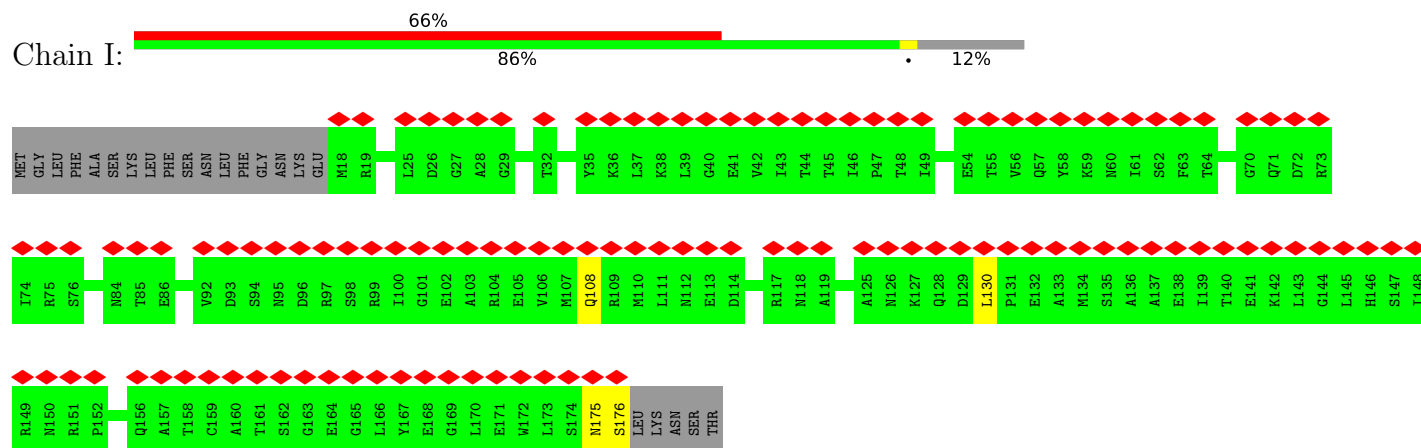
• Molecule 1: ADP-RIBOSYLATION FACTOR 1



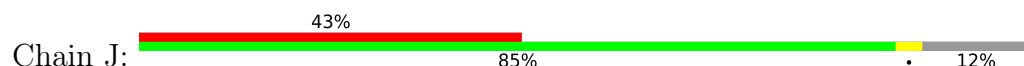
• Molecule 1: ADP-RIBOSYLATION FACTOR 1

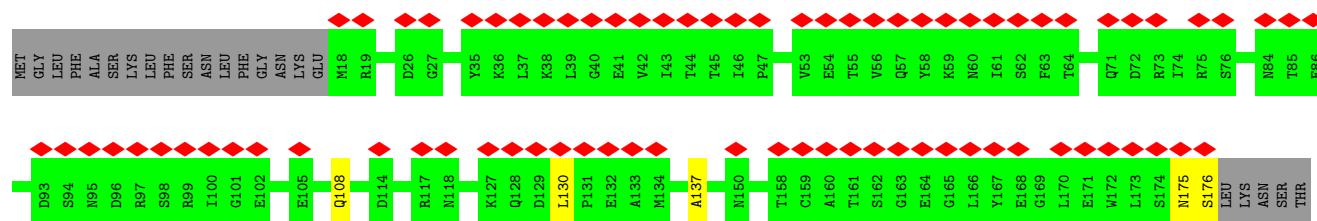


• Molecule 1: ADP-RIBOSYLATION FACTOR 1

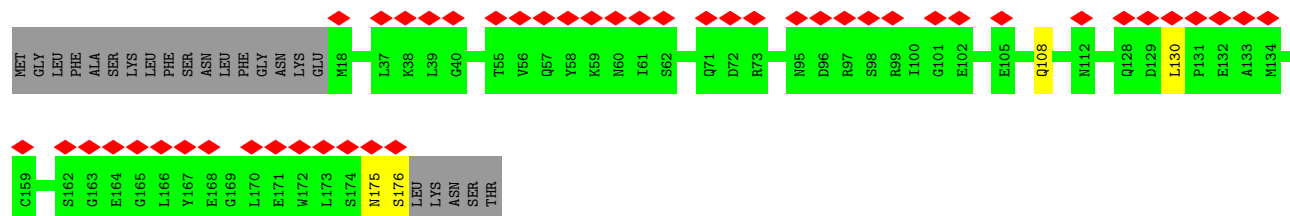
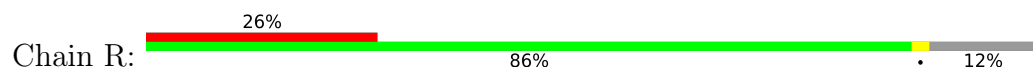


• Molecule 1: ADP-RIBOSYLATION FACTOR 1

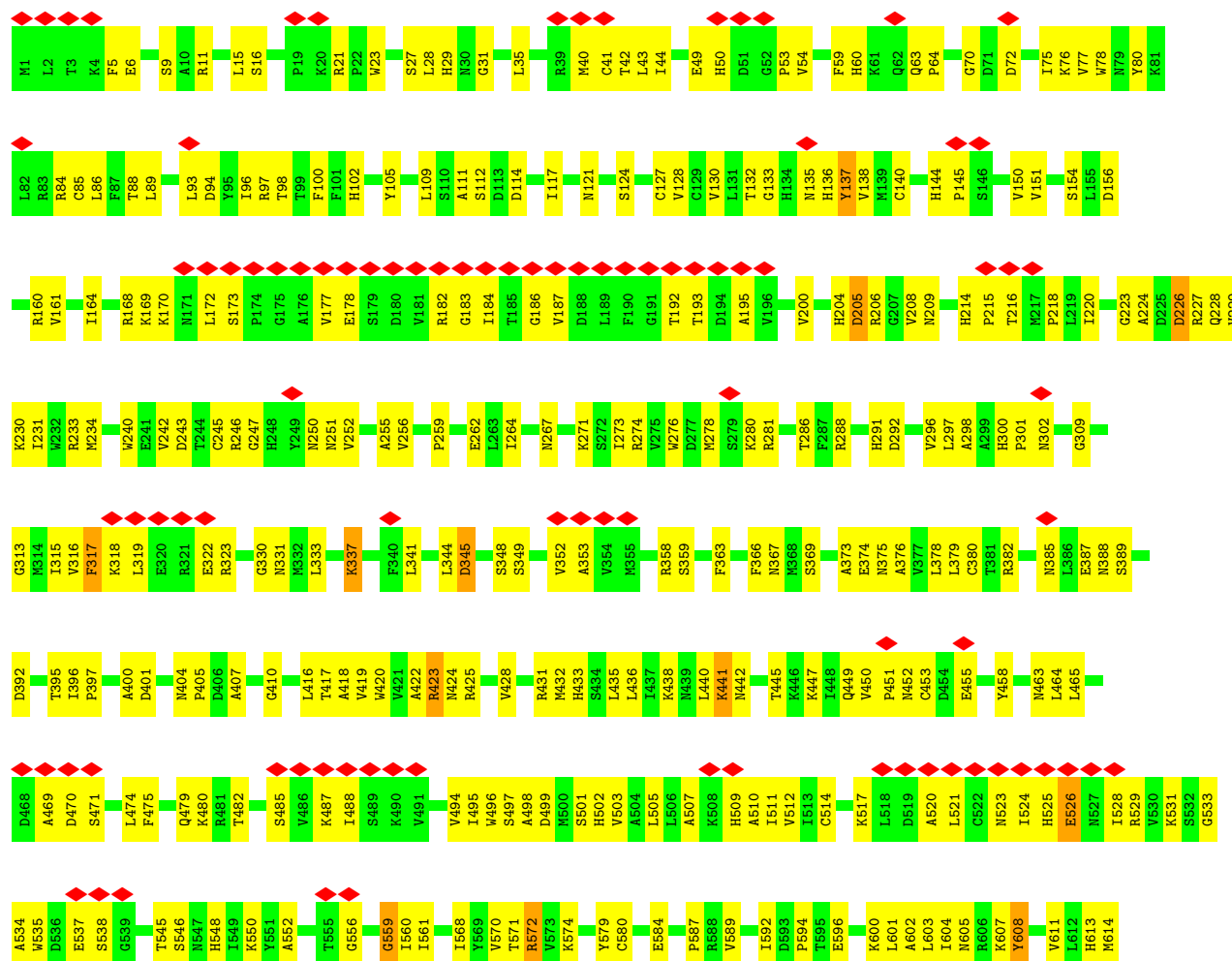


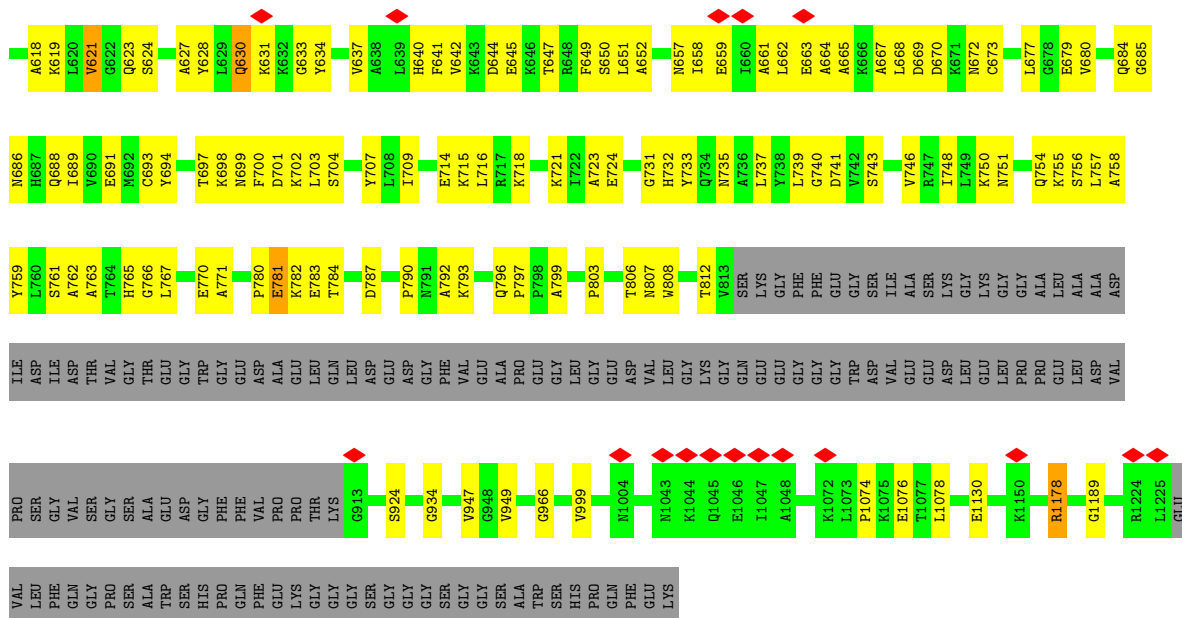


- Molecule 1: ADP-RIBOSYLATION FACTOR 1

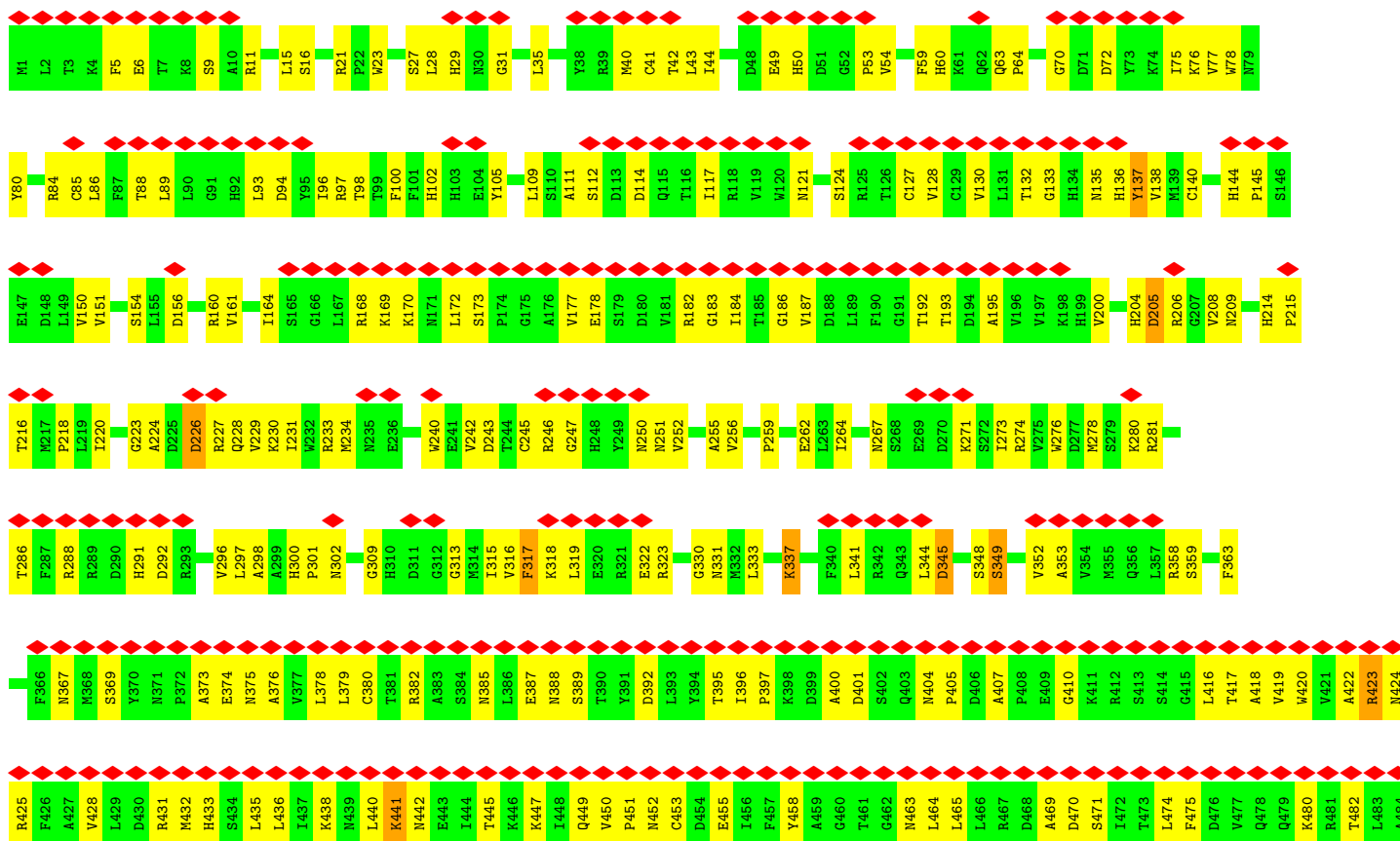


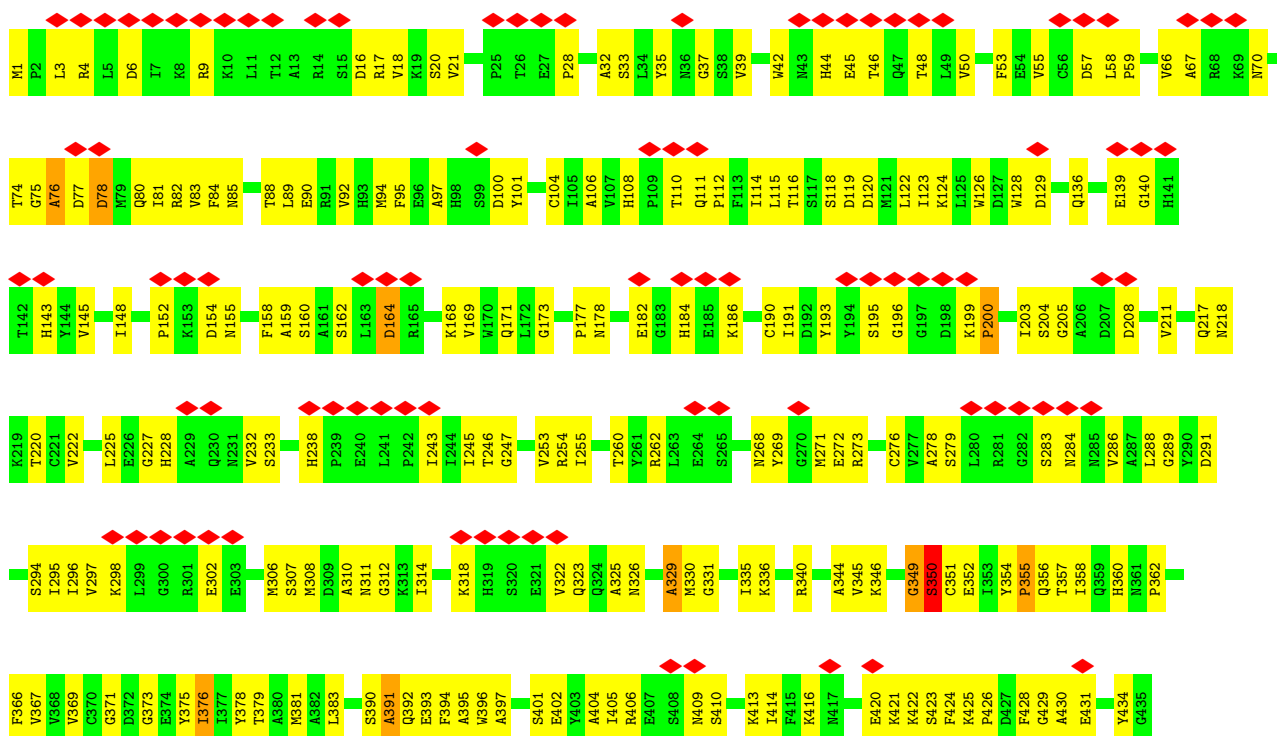
- Molecule 2: COATOMER SUBUNIT ALPHA

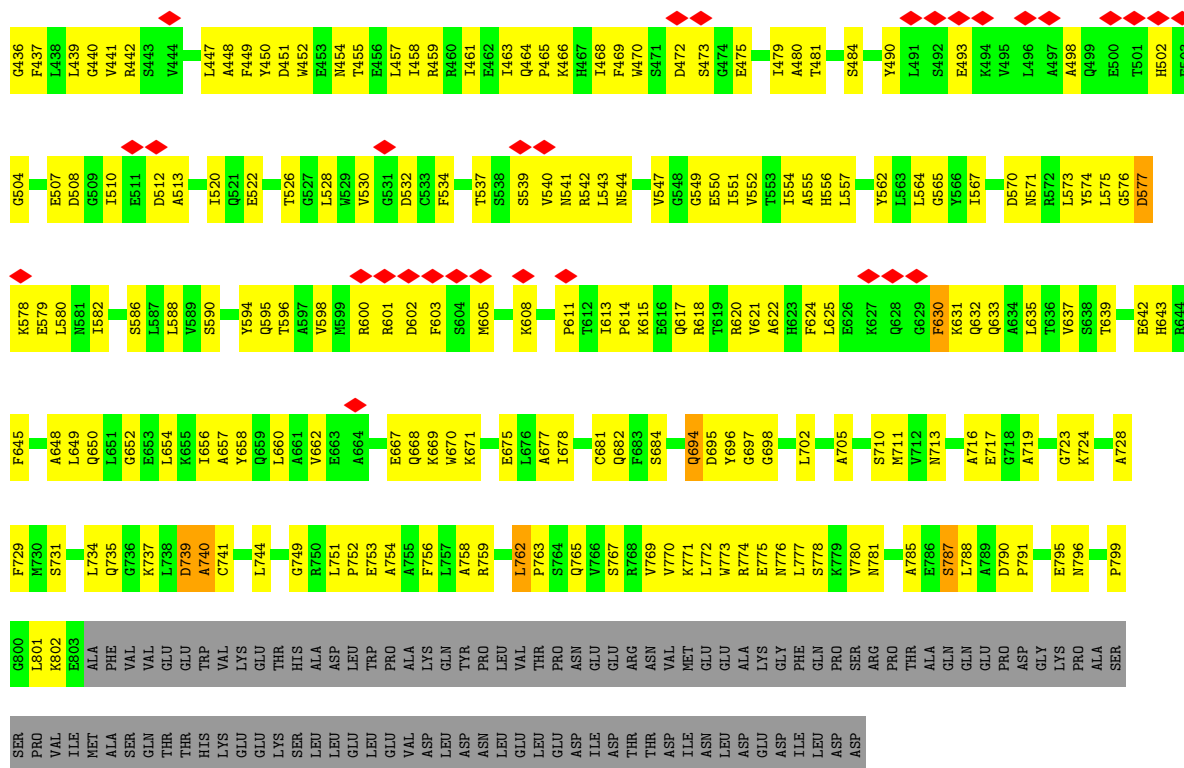




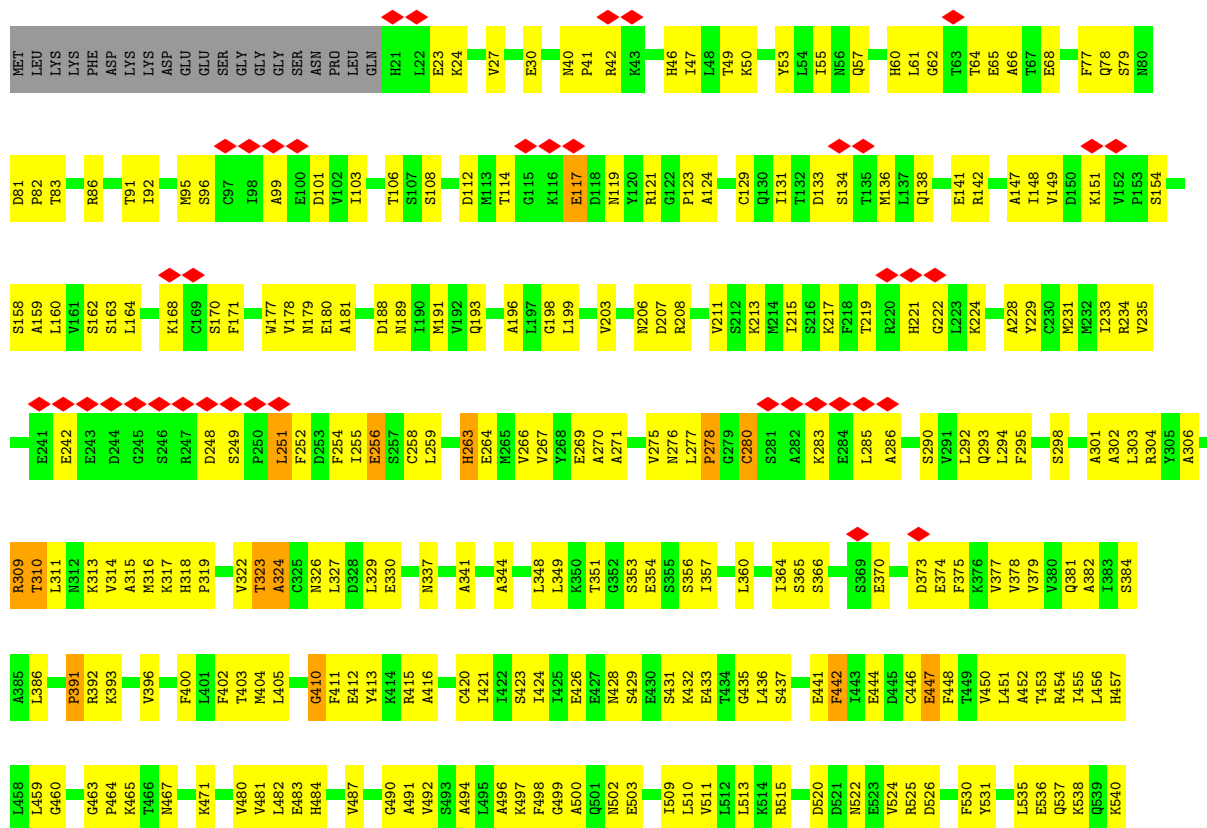
• Molecule 2: COATOMER SUBUNIT ALPHA

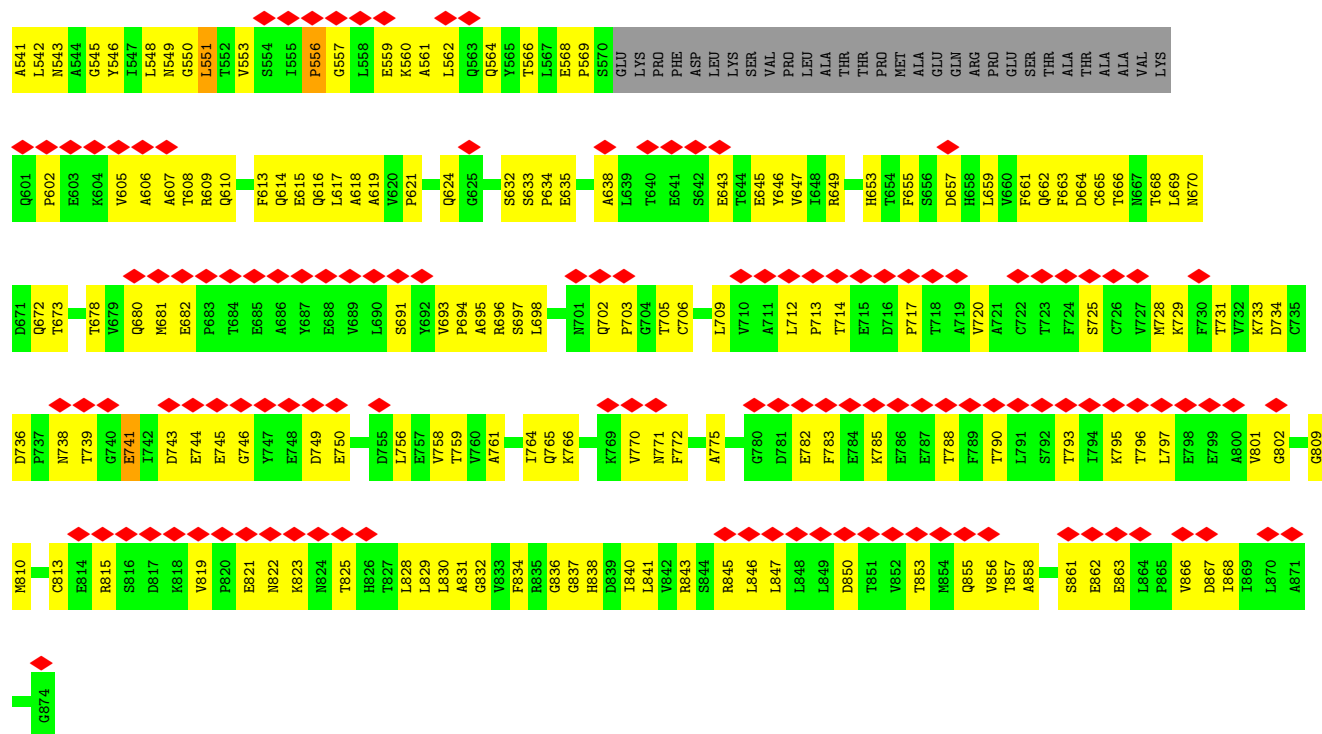




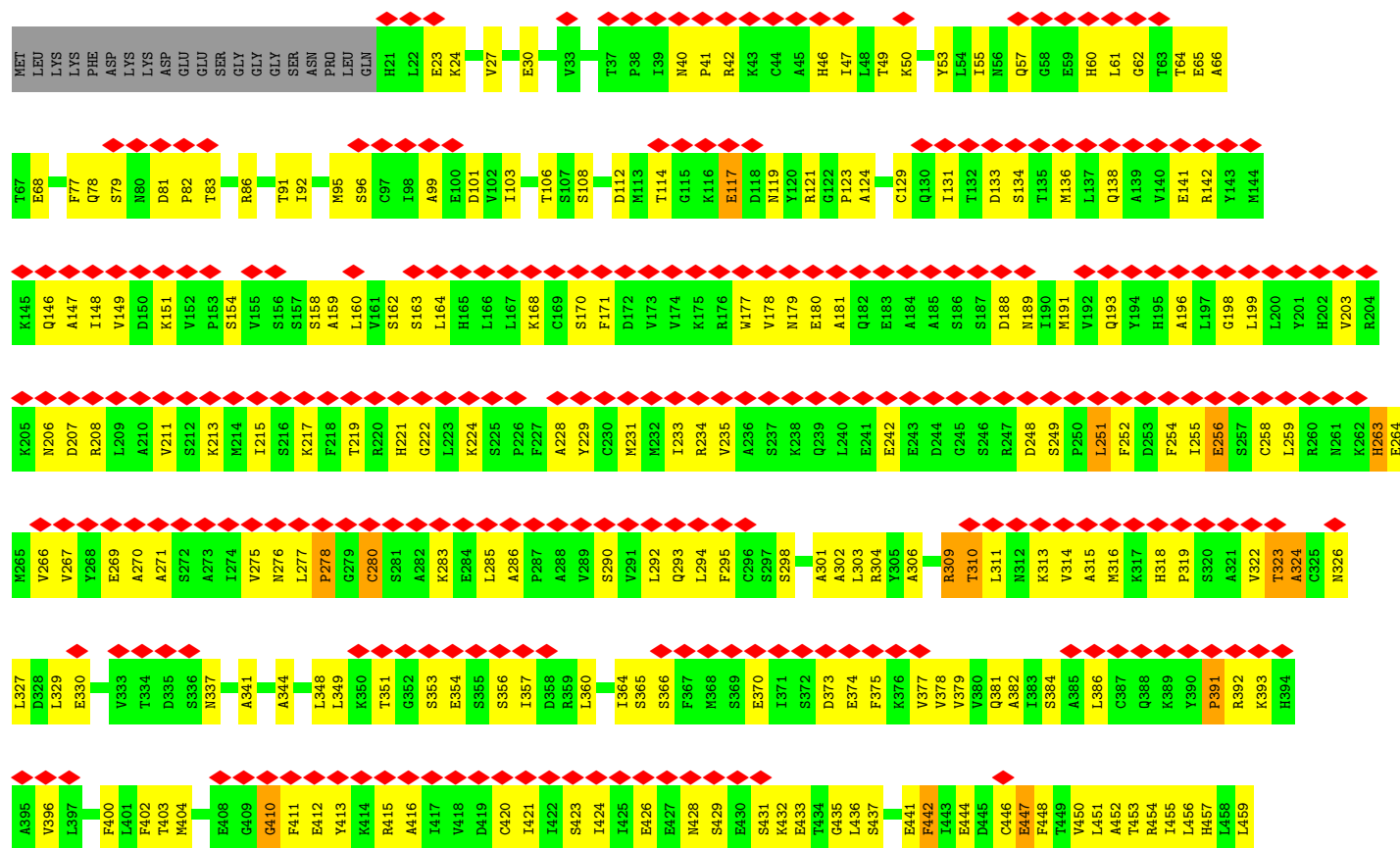


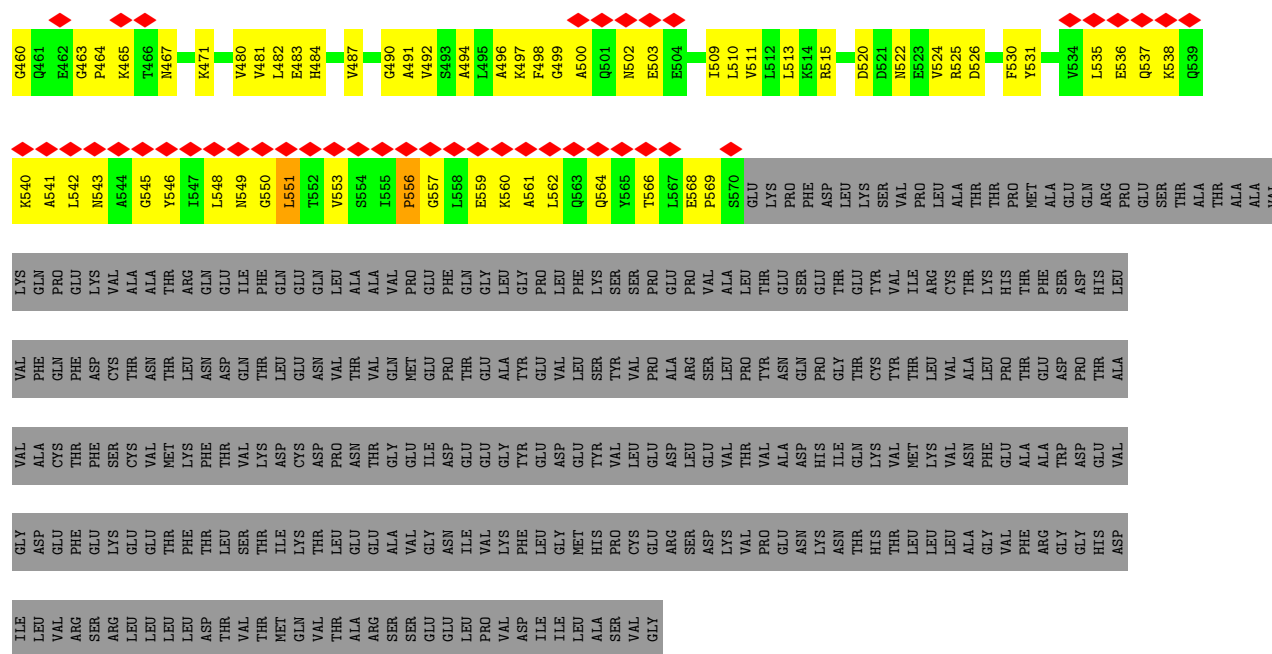
• Molecule 4: COATOMER SUBUNIT GAMMA-1



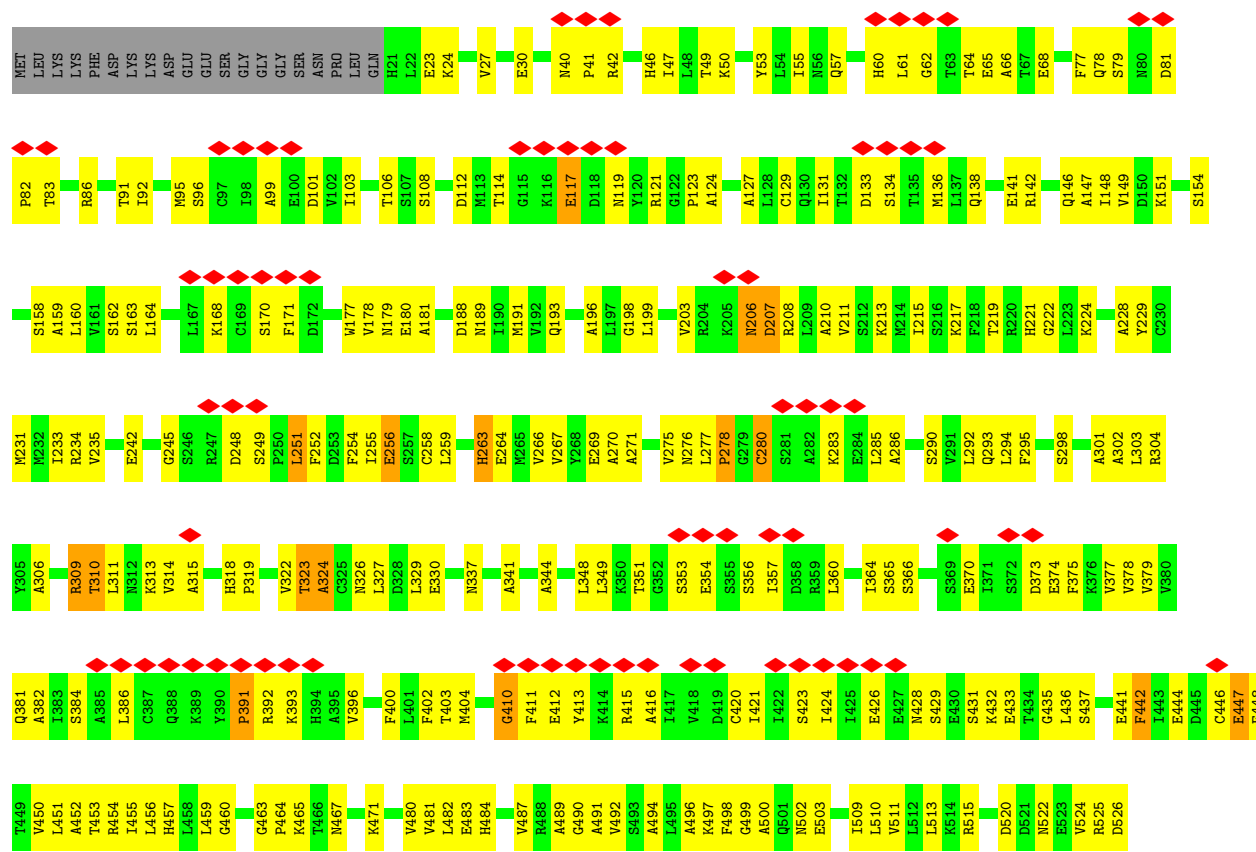


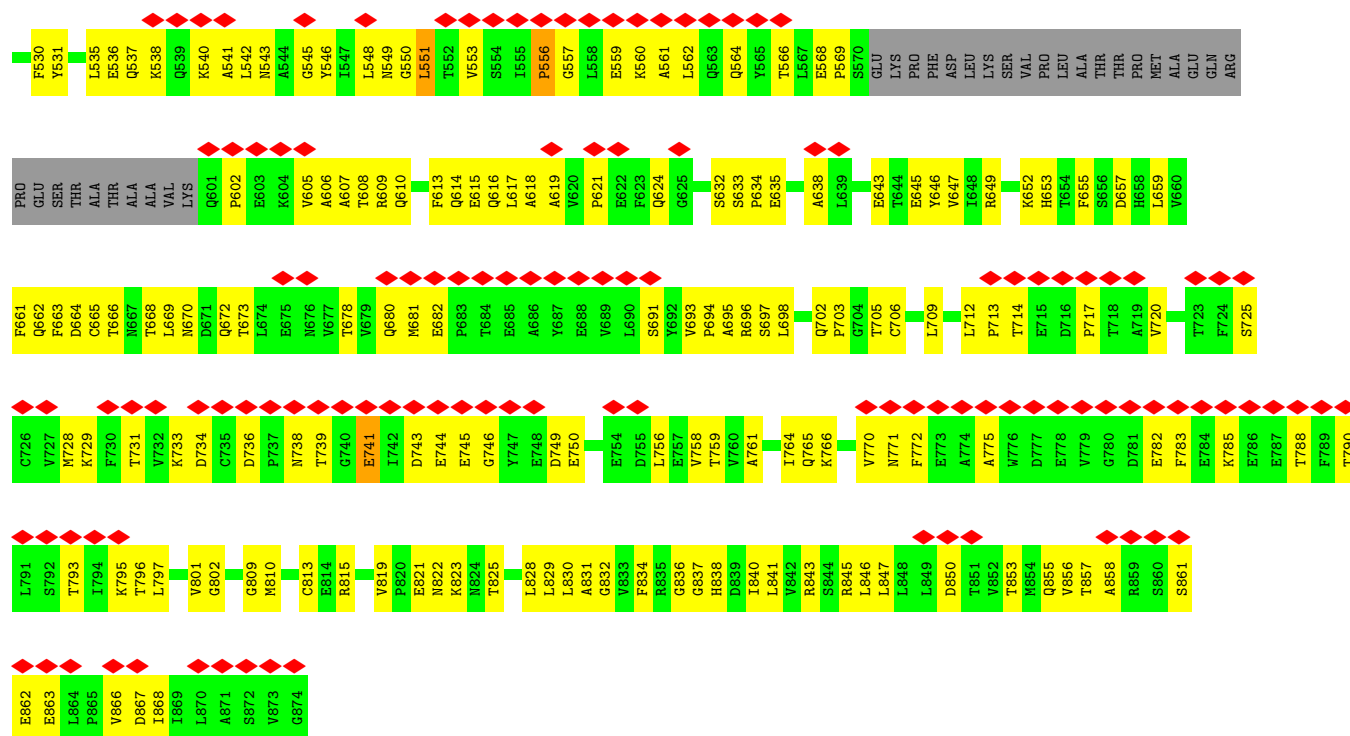
Molecule 4: COATOMER SUBUNIT GAMMA-1



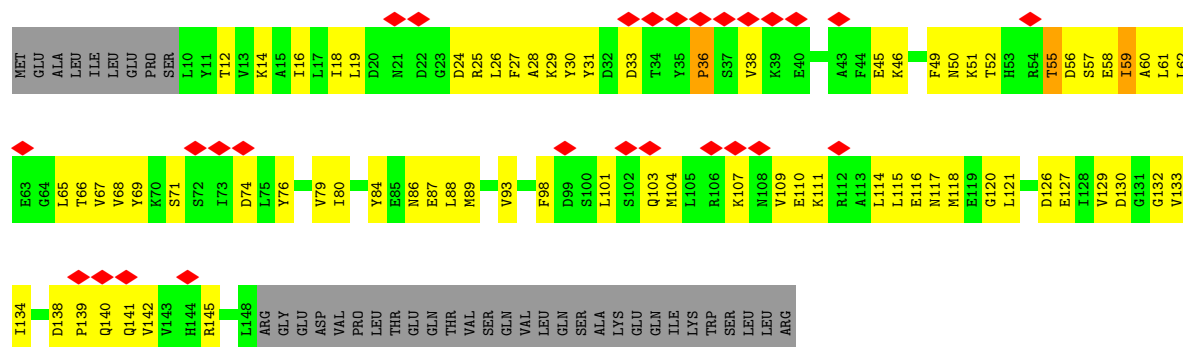


• Molecule 4: COATOMER SUBUNIT GAMMA-1

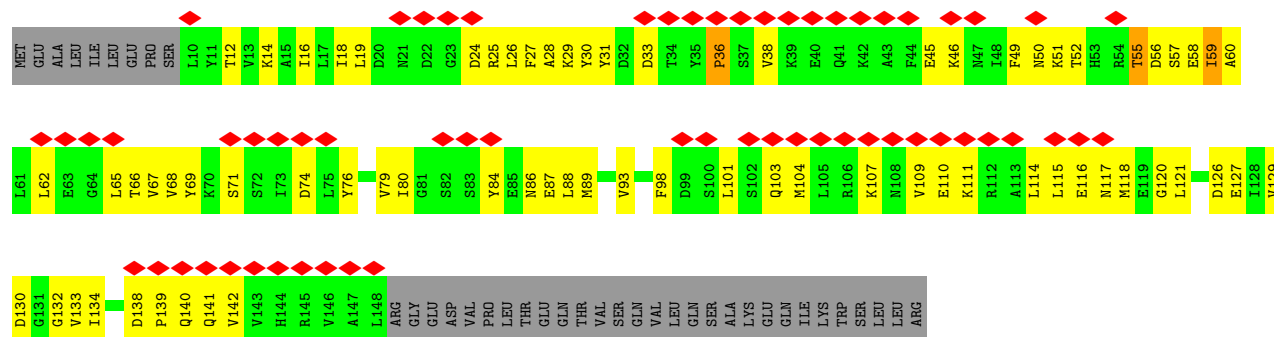




• Molecule 5: COATOMER SUBUNIT ZETA-1



• Molecule 5: COATOMER SUBUNIT ZETA-1

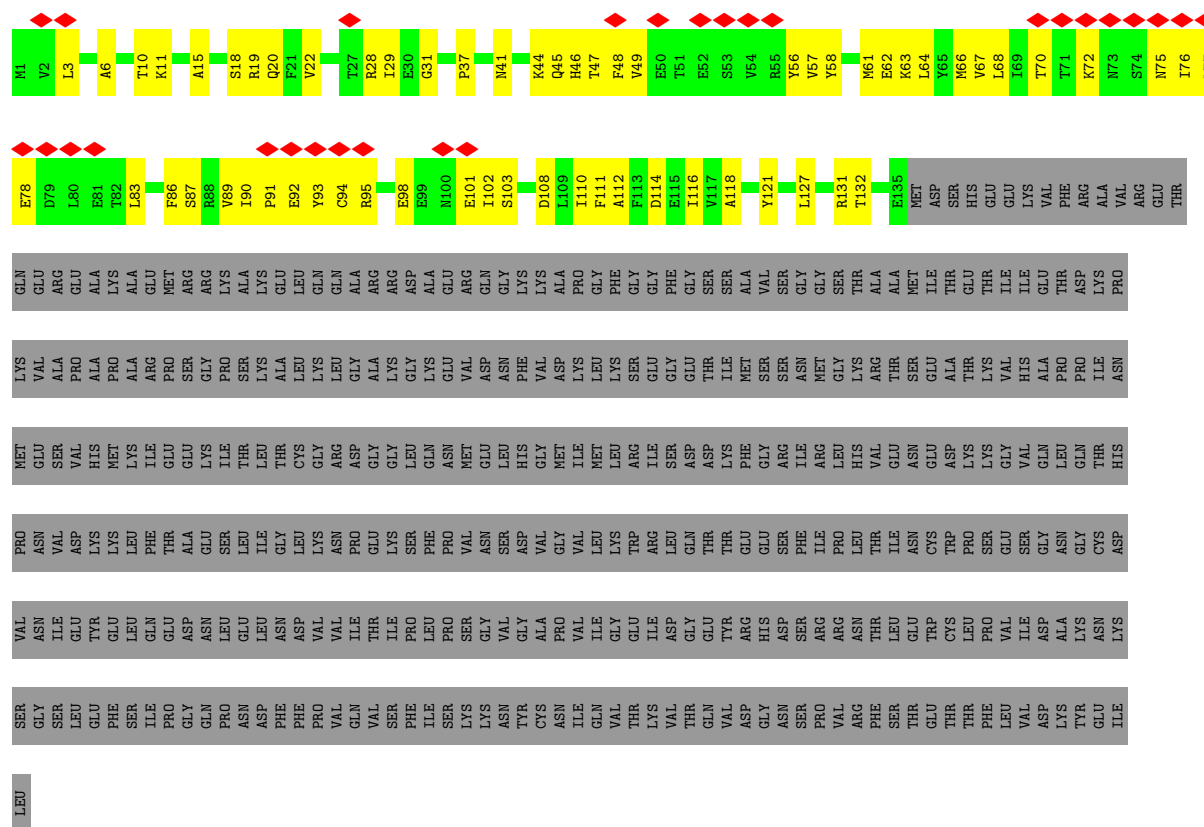








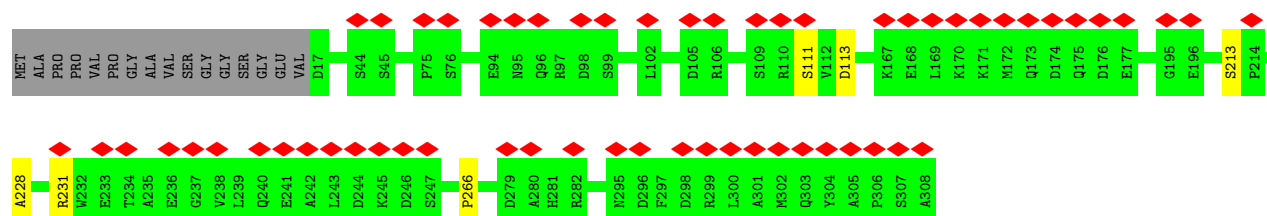
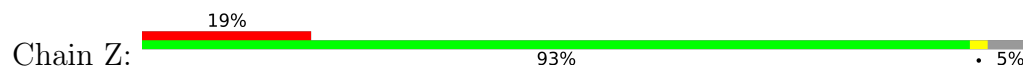
- Molecule 7: COATOMER SUBUNIT DELTA



- Molecule 8: COATOMER SUBUNIT EPSILON



- Molecule 8: COATOMER SUBUNIT EPSILON



4 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of tilted images used	1205	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	6.961	Depositor
Minimum voxel value	-5.585	Depositor
Average voxel value	0.033	Depositor
Voxel value standard deviation	0.924	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%)
1	R	0.68	0/635	1.31	3/792 (0.4%)
2	C	2.39	200/4501 (4.4%)	2.58	345/5623 (6.1%)
2	K	2.39	200/4501 (4.4%)	2.58	343/5623 (6.1%)
3	D	2.71	222/3210 (6.9%)	2.89	342/4011 (8.5%)
3	L	2.70	220/3210 (6.9%)	2.89	345/4011 (8.6%)
4	E	2.63	195/3292 (5.9%)	3.05	399/4112 (9.7%)
4	M	2.61	120/2198 (5.5%)	3.13	282/2746 (10.3%)
4	V	2.63	195/3292 (5.9%)	3.05	398/4112 (9.7%)
5	F	2.72	42/554 (7.6%)	2.99	72/691 (10.4%)
5	N	2.73	40/554 (7.2%)	2.99	71/691 (10.3%)
5	W	2.72	41/554 (7.4%)	2.99	71/691 (10.3%)
6	G	2.57	176/3248 (5.4%)	3.09	421/4057 (10.4%)
6	O	2.57	179/3248 (5.5%)	3.09	421/4057 (10.4%)
7	H	2.07	25/1518 (1.6%)	2.47	103/1893 (5.4%)
7	P	2.54	24/538 (4.5%)	3.12	65/671 (9.7%)
8	X	1.59	0/1168	1.38	2/1457 (0.1%)
8	Z	1.59	0/1168	1.38	2/1457 (0.1%)
All	All	2.41	1879/39929 (4.7%)	2.73	3697/49863 (7.4%)

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

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Mol	Chain	#Chirality outliers	#Planarity outliers
4	E	0	4
4	M	0	4
4	V	0	4
5	F	0	1
5	N	0	1
5	W	0	1
6	G	0	14
6	O	0	14
All	All	0	55

All (1879) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	330	MET	N-CA	-10.82	1.32	1.46
3	L	330	MET	N-CA	-10.79	1.32	1.46
2	C	98	THR	CA-C	10.52	1.65	1.52
2	K	98	THR	CA-C	10.51	1.65	1.52
3	D	537	THR	N-CA	-10.09	1.33	1.45
3	L	537	THR	N-CA	-10.08	1.33	1.45
4	V	198	GLY	CA-C	-9.88	1.41	1.52
4	E	198	GLY	CA-C	-9.85	1.41	1.52
4	M	198	GLY	CA-C	-9.82	1.41	1.52
4	V	536	GLU	CA-C	-9.71	1.40	1.52
3	L	378	TYR	N-CA	-9.67	1.33	1.45
4	E	536	GLU	CA-C	-9.66	1.40	1.52
4	M	536	GLU	CA-C	-9.66	1.40	1.52
3	D	378	TYR	N-CA	-9.64	1.33	1.45
5	F	116	GLU	CA-C	-9.64	1.40	1.52
5	N	116	GLU	CA-C	-9.57	1.40	1.52
6	O	538	ASP	CA-C	-9.57	1.48	1.53
5	W	116	GLU	CA-C	-9.56	1.40	1.52
6	G	538	ASP	CA-C	-9.53	1.48	1.53
6	G	539	ARG	C-N	9.48	1.44	1.33
6	O	539	ARG	C-N	9.45	1.44	1.33
4	E	645	GLU	CA-C	-9.39	1.44	1.52
2	C	204	HIS	N-CA	-9.37	1.34	1.46
2	K	130	VAL	C-N	9.36	1.45	1.33
4	V	645	GLU	CA-C	-9.35	1.45	1.52
2	C	130	VAL	C-N	9.32	1.45	1.33
2	K	204	HIS	N-CA	-9.30	1.34	1.46
2	C	27	SER	CA-C	-9.24	1.41	1.52
2	K	27	SER	CA-C	-9.20	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	W	29	LYS	CA-C	-9.11	1.41	1.52
5	F	29	LYS	CA-C	-9.10	1.41	1.52
6	O	118	GLY	CA-C	-9.10	1.41	1.52
5	N	29	LYS	CA-C	-9.10	1.41	1.52
6	O	892	CYS	C-N	9.10	1.42	1.33
6	G	892	CYS	C-N	9.09	1.42	1.33
4	E	662	GLN	CA-C	-9.04	1.41	1.52
4	V	813	CYS	CA-C	-9.04	1.41	1.52
2	C	631	LYS	N-CA	-9.03	1.34	1.46
6	G	118	GLY	CA-C	-9.03	1.41	1.52
6	O	351	ARG	CA-C	-9.01	1.40	1.52
4	E	813	CYS	CA-C	-9.00	1.41	1.52
2	K	631	LYS	N-CA	-8.99	1.34	1.46
4	V	662	GLN	CA-C	-8.98	1.41	1.52
6	G	351	ARG	CA-C	-8.98	1.40	1.52
2	C	509	HIS	CA-C	-8.95	1.42	1.52
2	K	509	HIS	CA-C	-8.93	1.42	1.52
6	O	761	VAL	CA-C	-8.91	1.41	1.52
6	G	761	VAL	CA-C	-8.89	1.41	1.52
6	O	879	ASP	CA-C	8.85	1.64	1.52
4	E	613	PHE	N-CA	-8.84	1.35	1.46
6	G	879	ASP	CA-C	8.83	1.64	1.52
6	O	348	VAL	CA-C	-8.80	1.41	1.52
6	G	348	VAL	CA-C	-8.78	1.41	1.52
4	V	613	PHE	N-CA	-8.78	1.35	1.46
3	L	716	ALA	CA-C	-8.76	1.41	1.52
6	G	19	GLU	N-CA	-8.74	1.38	1.46
3	L	543	LEU	CA-C	-8.72	1.42	1.52
3	D	716	ALA	CA-C	-8.70	1.41	1.52
6	G	304	ARG	CA-C	-8.68	1.42	1.52
3	D	543	LEU	CA-C	-8.67	1.42	1.52
6	O	447	HIS	CA-C	-8.66	1.41	1.52
6	G	447	HIS	CA-C	-8.65	1.41	1.52
6	O	19	GLU	N-CA	-8.64	1.38	1.46
3	D	289	GLY	CA-C	-8.64	1.46	1.52
6	O	304	ARG	CA-C	-8.62	1.42	1.52
3	L	799	PRO	C-N	8.61	1.44	1.33
2	C	224	ALA	CA-C	-8.61	1.42	1.52
3	L	289	GLY	CA-C	-8.59	1.46	1.52
2	K	224	ALA	CA-C	-8.59	1.42	1.52
2	K	137	TYR	C-N	8.57	1.42	1.33
3	D	799	PRO	C-N	8.55	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	857	GLN	N-CA	-8.54	1.36	1.46
6	O	857	GLN	N-CA	-8.53	1.36	1.46
2	C	455	GLU	CA-C	-8.53	1.41	1.53
3	L	695	ASP	C-N	8.50	1.45	1.33
4	V	233	ILE	CA-C	-8.50	1.42	1.52
4	E	233	ILE	CA-C	-8.49	1.42	1.52
2	K	455	GLU	CA-C	-8.49	1.41	1.53
3	D	464	GLN	N-CA	-8.48	1.34	1.45
4	V	303	LEU	CA-C	-8.47	1.41	1.52
4	M	303	LEU	CA-C	-8.46	1.41	1.52
6	G	160	TYR	N-CA	-8.46	1.35	1.46
4	E	303	LEU	CA-C	-8.46	1.41	1.52
3	L	111	GLN	N-CA	-8.45	1.40	1.46
3	L	464	GLN	N-CA	-8.45	1.34	1.45
3	D	695	ASP	C-N	8.44	1.45	1.33
6	G	565	ALA	N-CA	-8.44	1.36	1.46
7	H	31	GLY	C-N	8.43	1.44	1.33
4	M	233	ILE	CA-C	-8.43	1.42	1.52
6	O	565	ALA	N-CA	-8.43	1.36	1.46
6	O	160	TYR	N-CA	-8.40	1.36	1.46
3	L	466	LYS	N-CA	-8.40	1.35	1.46
2	K	223	GLY	CA-C	-8.40	1.44	1.52
3	D	111	GLN	N-CA	-8.40	1.40	1.46
2	C	223	GLY	CA-C	-8.38	1.44	1.52
7	P	31	GLY	C-N	8.38	1.44	1.33
3	D	466	LYS	N-CA	-8.36	1.35	1.46
3	L	645	PHE	N-CA	-8.34	1.36	1.46
3	L	298	LYS	CA-C	-8.31	1.42	1.52
3	D	645	PHE	N-CA	-8.30	1.36	1.46
3	L	598	VAL	CA-C	-8.29	1.42	1.52
5	F	25	ARG	CA-C	-8.28	1.42	1.52
6	G	374	GLU	C-N	8.27	1.45	1.33
2	K	621	VAL	C-N	8.26	1.45	1.33
3	D	598	VAL	CA-C	-8.26	1.42	1.52
2	C	621	VAL	C-N	8.26	1.45	1.33
5	N	25	ARG	CA-C	-8.26	1.42	1.52
6	O	374	GLU	C-N	8.24	1.45	1.33
3	D	298	LYS	CA-C	-8.20	1.42	1.52
6	G	329	LEU	CA-C	-8.17	1.42	1.52
2	K	550	LYS	CA-C	-8.16	1.42	1.52
3	D	555	ALA	CA-C	-8.16	1.42	1.52
5	W	25	ARG	CA-C	-8.16	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	828	LEU	CA-C	-8.15	1.42	1.52
3	L	74	THR	C-O	-8.15	1.13	1.23
6	O	329	LEU	CA-C	-8.15	1.42	1.52
3	D	74	THR	C-O	-8.13	1.14	1.23
6	O	148	HIS	CA-C	-8.12	1.42	1.52
4	V	455	ILE	C-N	8.11	1.44	1.33
5	W	68	VAL	CA-C	-8.11	1.42	1.52
5	F	68	VAL	CA-C	-8.11	1.42	1.52
2	C	550	LYS	CA-C	-8.11	1.42	1.52
4	M	83	THR	CA-C	-8.11	1.42	1.52
4	V	83	THR	CA-C	-8.11	1.42	1.52
5	N	68	VAL	CA-C	-8.10	1.42	1.52
6	G	148	HIS	CA-C	-8.10	1.43	1.52
4	E	83	THR	CA-C	-8.09	1.42	1.52
4	M	455	ILE	C-N	8.09	1.44	1.33
3	L	555	ALA	CA-C	-8.08	1.43	1.52
2	C	154	SER	CA-C	-8.05	1.42	1.52
4	E	455	ILE	C-N	8.05	1.44	1.33
4	V	828	LEU	CA-C	-8.05	1.43	1.52
2	K	154	SER	CA-C	-8.05	1.42	1.52
2	C	341	LEU	CA-C	8.04	1.60	1.53
2	K	297	LEU	CA-C	-8.04	1.42	1.52
2	C	297	LEU	CA-C	-8.04	1.42	1.52
2	C	137	TYR	C-N	8.01	1.42	1.33
6	G	145	GLU	C-N	8.00	1.44	1.33
6	O	145	GLU	C-N	7.98	1.44	1.33
2	C	353	ALA	N-CA	-7.97	1.35	1.45
2	K	353	ALA	N-CA	-7.97	1.35	1.45
2	K	341	LEU	CA-C	7.97	1.60	1.53
2	K	252	VAL	CA-C	-7.96	1.43	1.52
6	G	773	LEU	CA-C	-7.94	1.42	1.52
2	C	252	VAL	CA-C	-7.94	1.43	1.52
2	K	652	ALA	C-N	7.93	1.45	1.34
2	C	652	ALA	C-N	7.92	1.44	1.34
4	E	123	PRO	N-CA	-7.92	1.37	1.47
2	C	584	GLU	C-N	7.91	1.44	1.33
3	D	159	ALA	CA-C	-7.91	1.43	1.52
3	L	159	ALA	CA-C	-7.89	1.43	1.52
2	K	77	VAL	CA-C	-7.88	1.43	1.52
4	E	693	VAL	N-CA	-7.88	1.39	1.46
4	V	123	PRO	N-CA	-7.87	1.37	1.47
6	G	329	LEU	C-N	7.86	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	773	LEU	CA-C	-7.86	1.43	1.52
2	C	77	VAL	CA-C	-7.85	1.43	1.52
2	C	85	CYS	CA-C	-7.85	1.43	1.52
2	K	584	GLU	C-N	7.85	1.44	1.33
3	L	191	ILE	CA-C	-7.83	1.42	1.52
4	M	123	PRO	N-CA	-7.83	1.37	1.47
3	D	562	TYR	CA-C	-7.83	1.43	1.52
3	L	562	TYR	CA-C	-7.83	1.43	1.52
2	C	631	LYS	C-N	7.82	1.44	1.33
2	K	631	LYS	C-N	7.81	1.44	1.33
6	O	329	LEU	C-N	7.81	1.44	1.33
4	V	696	ARG	N-CA	-7.80	1.37	1.46
4	V	693	VAL	N-CA	-7.80	1.39	1.46
7	P	132	THR	CA-C	7.79	1.62	1.52
2	K	525	HIS	N-CA	-7.78	1.36	1.46
3	L	621	VAL	N-CA	-7.78	1.37	1.46
2	K	85	CYS	CA-C	-7.77	1.43	1.52
3	L	550	GLU	CA-C	-7.75	1.43	1.52
4	E	696	ARG	N-CA	-7.75	1.37	1.46
7	H	132	THR	CA-C	7.75	1.62	1.52
3	D	191	ILE	CA-C	-7.75	1.42	1.52
2	C	525	HIS	N-CA	-7.74	1.36	1.46
3	L	276	CYS	CA-C	-7.74	1.42	1.52
6	O	472	ILE	N-CA	-7.73	1.37	1.46
3	D	276	CYS	CA-C	-7.73	1.42	1.52
5	N	19	LEU	CA-C	-7.72	1.43	1.52
3	L	451	ASP	CA-C	-7.70	1.42	1.52
3	D	621	VAL	N-CA	-7.70	1.37	1.46
3	D	550	GLU	CA-C	-7.69	1.43	1.52
5	F	19	LEU	CA-C	-7.68	1.43	1.52
5	W	19	LEU	CA-C	-7.68	1.43	1.52
3	D	451	ASP	CA-C	-7.68	1.42	1.52
6	G	472	ILE	N-CA	-7.67	1.37	1.46
2	K	127	CYS	CA-C	-7.67	1.43	1.52
2	C	127	CYS	CA-C	-7.65	1.43	1.52
6	O	580	SER	CA-C	-7.65	1.43	1.52
6	G	580	SER	CA-C	-7.63	1.43	1.52
3	D	122	LEU	CA-C	-7.63	1.43	1.52
6	O	920	ALA	CA-C	-7.62	1.43	1.52
4	V	741	GLU	CA-C	-7.62	1.42	1.52
5	W	117	ASN	CA-C	-7.62	1.44	1.53
2	K	560	ILE	CA-C	-7.62	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	765	GLN	CA-C	-7.62	1.43	1.52
3	L	586	SER	N-CA	-7.61	1.36	1.46
2	C	560	ILE	CA-C	-7.60	1.43	1.52
4	E	846	LEU	CA-C	-7.60	1.43	1.52
3	L	122	LEU	CA-C	-7.60	1.43	1.52
4	E	765	GLN	CA-C	-7.59	1.43	1.52
2	C	220	ILE	CA-C	-7.59	1.43	1.52
5	F	12	THR	C-N	7.59	1.43	1.33
3	D	468	ILE	CA-C	-7.58	1.43	1.52
3	L	468	ILE	CA-C	-7.57	1.43	1.52
3	D	586	SER	N-CA	-7.57	1.36	1.46
6	G	920	ALA	CA-C	-7.57	1.43	1.52
5	N	12	THR	C-N	7.56	1.43	1.33
4	V	846	LEU	CA-C	-7.56	1.43	1.52
4	E	741	GLU	CA-C	-7.56	1.42	1.52
4	E	99	ALA	N-CA	-7.56	1.36	1.46
3	L	414	ILE	CA-C	-7.55	1.43	1.52
2	K	220	ILE	CA-C	-7.55	1.43	1.52
3	D	33	SER	N-CA	-7.55	1.36	1.46
3	L	33	SER	N-CA	-7.55	1.36	1.46
4	M	542	LEU	N-CA	-7.55	1.37	1.46
4	E	728	MET	CA-C	-7.54	1.43	1.52
5	N	117	ASN	CA-C	-7.54	1.44	1.53
6	O	433	ASN	CA-C	-7.54	1.42	1.53
4	V	542	LEU	N-CA	-7.54	1.37	1.46
4	M	124	ALA	CA-C	-7.52	1.43	1.52
3	L	310	ALA	N-CA	-7.51	1.35	1.46
4	V	728	MET	CA-C	-7.51	1.43	1.52
2	C	505	LEU	CA-C	-7.51	1.43	1.52
4	E	542	LEU	N-CA	-7.50	1.37	1.46
4	E	124	ALA	CA-C	-7.50	1.43	1.52
5	W	12	THR	C-N	7.50	1.43	1.33
3	D	414	ILE	CA-C	-7.49	1.43	1.52
4	V	124	ALA	CA-C	-7.49	1.43	1.52
4	V	99	ALA	N-CA	-7.48	1.36	1.46
3	D	310	ALA	N-CA	-7.48	1.36	1.46
6	G	433	ASN	CA-C	-7.48	1.43	1.53
5	F	117	ASN	CA-C	-7.48	1.44	1.53
2	K	505	LEU	CA-C	-7.47	1.43	1.52
4	M	99	ALA	N-CA	-7.47	1.36	1.46
3	D	296	ILE	CA-C	-7.45	1.43	1.52
4	E	530	PHE	N-CA	-7.45	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	H	61	MET	CA-C	-7.45	1.44	1.52
4	M	530	PHE	N-CA	-7.44	1.37	1.46
2	K	172	LEU	CA-C	-7.44	1.43	1.52
4	V	530	PHE	N-CA	-7.43	1.37	1.46
3	D	50	VAL	C-N	7.43	1.42	1.33
3	D	295	ILE	N-CA	-7.43	1.37	1.46
3	L	296	ILE	CA-C	-7.42	1.43	1.52
3	L	16	ASP	C-N	7.42	1.44	1.33
3	D	16	ASP	C-N	7.41	1.44	1.33
2	C	471	SER	C-N	7.40	1.42	1.33
7	P	61	MET	CA-C	-7.40	1.44	1.52
2	C	172	LEU	CA-C	-7.40	1.43	1.52
4	E	602	PRO	CA-C	-7.39	1.44	1.52
3	L	50	VAL	C-N	7.39	1.42	1.33
3	L	567	ILE	CA-C	-7.39	1.47	1.53
7	H	93	TYR	C-N	7.37	1.44	1.33
2	K	792	ALA	CA-C	-7.37	1.43	1.52
2	K	471	SER	C-N	7.37	1.42	1.33
4	V	208	ARG	CA-C	-7.36	1.43	1.52
3	L	126	TRP	CA-C	-7.36	1.43	1.52
4	M	208	ARG	CA-C	-7.36	1.43	1.52
7	P	93	TYR	C-N	7.35	1.44	1.33
4	V	602	PRO	CA-C	-7.35	1.44	1.52
3	D	366	PHE	CA-C	-7.35	1.43	1.52
3	D	567	ILE	CA-C	-7.35	1.47	1.53
3	L	295	ILE	N-CA	-7.34	1.37	1.46
3	D	126	TRP	CA-C	-7.33	1.43	1.52
4	E	208	ARG	CA-C	-7.33	1.43	1.52
3	L	186	LYS	C-N	7.33	1.43	1.32
3	D	772	LEU	C-N	7.32	1.43	1.33
2	K	661	ALA	CA-C	-7.32	1.43	1.52
2	C	661	ALA	CA-C	-7.31	1.43	1.52
2	C	792	ALA	CA-C	-7.31	1.43	1.52
4	E	53	TYR	C-O	-7.31	1.15	1.24
3	L	228	HIS	CA-C	-7.30	1.43	1.52
5	W	129	VAL	CA-C	-7.30	1.44	1.52
3	D	595	GLN	C-N	7.30	1.43	1.33
4	M	53	TYR	C-O	-7.30	1.15	1.24
3	L	366	PHE	CA-C	-7.30	1.43	1.52
3	L	772	LEU	C-N	7.30	1.43	1.33
5	N	129	VAL	CA-C	-7.29	1.44	1.52
3	L	767	SER	N-CA	-7.29	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	129	VAL	CA-C	-7.29	1.44	1.52
3	D	186	LYS	C-N	7.28	1.43	1.32
3	D	228	HIS	CA-C	-7.28	1.43	1.52
4	E	638	ALA	N-CA	-7.28	1.37	1.46
3	D	508	ASP	CA-C	-7.27	1.43	1.52
3	D	767	SER	N-CA	-7.27	1.37	1.46
3	L	508	ASP	CA-C	-7.26	1.43	1.52
3	L	595	GLN	C-N	7.24	1.43	1.33
4	V	53	TYR	C-O	-7.24	1.15	1.24
2	C	782	LYS	CA-C	-7.22	1.43	1.52
3	D	184	HIS	CA-C	-7.22	1.44	1.52
4	E	263	HIS	N-CA	-7.22	1.36	1.46
4	V	263	HIS	N-CA	-7.21	1.36	1.46
4	V	412	GLU	C-N	7.21	1.43	1.33
4	E	412	GLU	C-N	7.21	1.43	1.33
2	K	782	LYS	CA-C	-7.21	1.43	1.52
4	E	370	GLU	N-CA	-7.20	1.37	1.46
3	L	3	LEU	C-N	7.20	1.43	1.33
3	L	184	HIS	CA-C	-7.20	1.44	1.52
6	O	467	SER	C-N	7.20	1.43	1.33
2	K	517	LYS	CA-C	7.19	1.62	1.52
4	M	263	HIS	N-CA	-7.19	1.36	1.46
4	M	412	GLU	C-N	7.19	1.43	1.33
6	O	289	ILE	CA-C	-7.19	1.43	1.52
4	V	638	ALA	N-CA	-7.18	1.37	1.46
3	L	208	ASP	C-N	7.18	1.43	1.33
6	G	394	PHE	CA-C	-7.18	1.45	1.52
6	O	898	ALA	C-N	7.17	1.43	1.33
3	D	575	LEU	CA-C	-7.17	1.44	1.52
4	M	370	GLU	N-CA	-7.17	1.37	1.46
4	V	370	GLU	N-CA	-7.17	1.37	1.46
3	D	208	ASP	C-N	7.17	1.43	1.33
6	G	898	ALA	C-N	7.15	1.43	1.33
6	G	792	LEU	N-CA	-7.15	1.36	1.46
6	O	510	PRO	C-N	7.15	1.43	1.33
6	G	467	SER	C-N	7.15	1.43	1.33
6	G	289	ILE	CA-C	-7.14	1.43	1.52
2	C	517	LYS	CA-C	7.14	1.62	1.52
3	L	575	LEU	CA-C	-7.14	1.44	1.52
3	L	723	GLY	CA-C	-7.14	1.41	1.51
2	C	694	TYR	C-N	7.13	1.43	1.33
6	O	792	LEU	N-CA	-7.13	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	394	PHE	CA-C	-7.13	1.45	1.52
4	E	561	ALA	CA-C	7.13	1.62	1.52
6	G	510	PRO	C-N	7.13	1.42	1.33
6	O	745	ALA	N-CA	-7.13	1.37	1.46
3	D	3	LEU	C-N	7.12	1.43	1.33
2	C	524	ILE	CA-C	-7.12	1.44	1.52
2	K	694	TYR	C-N	7.12	1.43	1.33
4	V	561	ALA	CA-C	7.12	1.62	1.52
3	D	723	GLY	CA-C	-7.12	1.41	1.51
2	K	714	GLU	C-O	7.11	1.32	1.24
4	M	540	LYS	CA-C	-7.11	1.43	1.52
4	V	613	PHE	CA-C	-7.11	1.43	1.52
4	V	252	PHE	N-CA	-7.11	1.38	1.46
4	M	561	ALA	CA-C	7.10	1.62	1.52
5	F	28	ALA	CA-C	-7.10	1.43	1.52
6	G	745	ALA	N-CA	-7.10	1.37	1.46
2	K	763	ALA	CA-C	-7.10	1.43	1.52
4	M	252	PHE	N-CA	-7.09	1.38	1.46
4	E	432	LYS	C-N	7.09	1.43	1.33
3	D	667	GLU	N-CA	7.09	1.55	1.46
3	L	340	ARG	CA-C	-7.09	1.43	1.52
3	L	667	GLU	N-CA	7.08	1.55	1.46
4	V	540	LYS	CA-C	-7.08	1.43	1.52
2	C	763	ALA	CA-C	-7.08	1.43	1.52
3	D	340	ARG	CA-C	-7.08	1.43	1.52
4	M	492	VAL	CA-C	-7.08	1.43	1.52
2	C	714	GLU	C-O	7.08	1.32	1.24
4	E	613	PHE	CA-C	-7.08	1.43	1.52
5	F	28	ALA	N-CA	-7.07	1.37	1.46
5	W	28	ALA	N-CA	-7.07	1.37	1.46
2	K	511	ILE	N-CA	-7.07	1.38	1.46
2	C	650	SER	N-CA	-7.07	1.37	1.46
2	C	216	THR	C-N	7.06	1.41	1.33
4	E	540	LYS	CA-C	-7.06	1.43	1.52
4	E	252	PHE	N-CA	-7.06	1.38	1.46
5	N	28	ALA	N-CA	-7.05	1.37	1.46
4	E	492	VAL	CA-C	-7.05	1.43	1.52
5	N	28	ALA	CA-C	-7.05	1.43	1.52
2	C	420	TRP	C-N	7.05	1.42	1.33
2	C	511	ILE	N-CA	-7.04	1.38	1.46
4	E	731	THR	C-N	7.04	1.43	1.33
2	K	216	THR	C-N	7.04	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	650	SER	N-CA	-7.04	1.37	1.46
2	C	737	LEU	CA-C	-7.04	1.43	1.52
5	W	28	ALA	CA-C	-7.03	1.43	1.52
4	M	136	MET	C-N	7.03	1.43	1.33
2	K	579	TYR	CA-C	-7.03	1.44	1.52
4	M	559	GLU	CA-C	-7.03	1.43	1.52
4	V	432	LYS	C-N	7.03	1.43	1.33
2	K	531	LYS	CA-C	-7.03	1.44	1.52
6	O	117	ARG	CA-C	-7.02	1.43	1.52
2	C	579	TYR	CA-C	-7.02	1.44	1.52
2	K	524	ILE	CA-C	-7.02	1.44	1.52
2	K	737	LEU	CA-C	-7.02	1.43	1.52
6	G	61	THR	CA-C	-7.01	1.44	1.52
4	V	136	MET	C-N	7.01	1.43	1.33
2	C	140	CYS	CA-C	-7.01	1.43	1.52
4	V	492	VAL	CA-C	-7.01	1.43	1.52
2	C	259	PRO	CA-C	-7.01	1.42	1.52
4	E	633	SER	C-N	-7.01	1.28	1.33
2	K	420	TRP	C-N	7.00	1.42	1.33
6	O	61	THR	CA-C	-7.00	1.44	1.52
6	O	132	LEU	N-CA	-7.00	1.37	1.46
6	G	132	LEU	N-CA	-7.00	1.37	1.46
2	C	531	LYS	CA-C	-6.99	1.44	1.52
2	K	748	ILE	N-CA	6.99	1.54	1.46
2	K	140	CYS	CA-C	-6.99	1.43	1.52
4	M	432	LYS	C-N	6.99	1.43	1.33
6	O	767	THR	C-N	6.99	1.44	1.33
2	C	644	ASP	CA-C	-6.98	1.43	1.52
4	E	136	MET	C-N	6.98	1.43	1.33
2	K	740	GLY	CA-C	-6.98	1.43	1.52
4	V	633	SER	C-N	-6.98	1.28	1.33
2	K	495	ILE	CA-C	-6.98	1.44	1.52
2	K	392	ASP	CA-C	-6.97	1.44	1.52
6	G	117	ARG	CA-C	-6.96	1.43	1.52
7	H	86	PHE	N-CA	-6.96	1.38	1.46
4	V	731	THR	C-N	6.96	1.43	1.33
4	E	845	ARG	CA-C	-6.96	1.44	1.52
4	V	559	GLU	CA-C	-6.96	1.43	1.52
5	F	87	GLU	CA-C	-6.95	1.43	1.52
2	K	259	PRO	CA-C	-6.95	1.42	1.52
2	C	392	ASP	CA-C	-6.94	1.44	1.52
2	C	748	ILE	N-CA	6.93	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	559	GLU	CA-C	-6.93	1.43	1.52
6	O	220	GLY	C-N	6.93	1.43	1.33
6	G	767	THR	C-N	6.93	1.44	1.33
2	K	644	ASP	CA-C	-6.93	1.43	1.52
4	M	264	GLU	CA-C	-6.93	1.43	1.52
7	P	10	THR	CA-C	-6.92	1.44	1.52
6	O	93	ARG	CA-C	-6.92	1.46	1.52
4	V	845	ARG	CA-C	-6.92	1.44	1.52
4	E	264	GLU	CA-C	-6.92	1.43	1.52
4	V	95	MET	C-N	6.92	1.42	1.33
3	L	114	ILE	CA-C	-6.91	1.44	1.52
3	D	114	ILE	CA-C	-6.91	1.44	1.52
5	N	87	GLU	CA-C	-6.90	1.43	1.52
4	V	264	GLU	CA-C	-6.90	1.43	1.52
3	D	507	GLU	CA-C	-6.90	1.44	1.53
3	D	90	GLU	CA-C	-6.89	1.44	1.52
4	E	64	THR	CA-C	-6.89	1.44	1.52
6	G	93	ARG	CA-C	-6.89	1.46	1.52
5	W	87	GLU	CA-C	-6.89	1.43	1.52
7	H	10	THR	CA-C	-6.88	1.44	1.52
3	L	90	GLU	CA-C	-6.88	1.44	1.52
2	C	740	GLY	CA-C	-6.88	1.43	1.52
4	E	843	ARG	CA-C	-6.88	1.44	1.52
2	K	298	ALA	C-N	6.88	1.44	1.33
7	P	86	PHE	N-CA	-6.88	1.38	1.46
2	C	495	ILE	CA-C	-6.87	1.44	1.52
2	C	525	HIS	CA-C	-6.87	1.44	1.52
3	L	507	GLU	CA-C	-6.87	1.44	1.53
4	M	95	MET	C-N	6.87	1.42	1.33
3	D	694	GLN	CA-C	6.86	1.61	1.52
4	V	843	ARG	CA-C	-6.85	1.44	1.52
3	L	694	GLN	CA-C	6.85	1.61	1.52
2	C	298	ALA	C-N	6.84	1.44	1.33
3	D	624	PHE	N-CA	-6.84	1.38	1.46
6	G	220	GLY	C-N	6.84	1.42	1.33
2	K	525	HIS	CA-C	-6.84	1.44	1.52
4	M	121	ARG	C-O	-6.84	1.16	1.24
4	M	64	THR	CA-C	-6.84	1.44	1.52
2	C	464	LEU	N-CA	-6.83	1.39	1.46
4	V	788	THR	CA-C	-6.83	1.44	1.52
6	G	409	LEU	N-CA	-6.83	1.38	1.46
6	O	409	LEU	N-CA	-6.83	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	502	HIS	CA-C	-6.83	1.44	1.53
4	E	121	ARG	C-O	-6.83	1.16	1.24
2	K	694	TYR	N-CA	-6.83	1.37	1.46
4	E	95	MET	C-N	6.83	1.42	1.33
2	C	694	TYR	N-CA	-6.82	1.37	1.46
2	K	533	GLY	N-CA	-6.82	1.39	1.45
3	L	74	THR	N-CA	-6.82	1.37	1.45
3	D	479	ILE	N-CA	-6.82	1.38	1.46
4	V	64	THR	CA-C	-6.82	1.44	1.52
2	C	533	GLY	N-CA	-6.82	1.39	1.45
3	L	205	GLY	CA-C	-6.81	1.46	1.51
3	L	624	PHE	N-CA	-6.81	1.38	1.46
2	C	410	GLY	C-N	6.80	1.42	1.33
4	V	121	ARG	C-O	-6.80	1.16	1.24
6	O	759	LEU	N-CA	-6.79	1.37	1.46
6	G	759	LEU	N-CA	-6.79	1.37	1.46
6	O	518	MET	N-CA	-6.79	1.38	1.46
2	K	410	GLY	C-N	6.78	1.42	1.33
6	G	217	GLN	CA-C	-6.78	1.44	1.52
3	D	205	GLY	CA-C	-6.78	1.46	1.51
5	F	14	LYS	CA-C	-6.78	1.44	1.52
2	K	464	LEU	N-CA	-6.78	1.39	1.46
4	E	788	THR	CA-C	-6.77	1.44	1.52
2	K	623	GLN	CA-C	-6.77	1.45	1.53
3	L	502	HIS	CA-C	-6.77	1.44	1.53
3	D	74	THR	N-CA	-6.76	1.37	1.45
6	G	518	MET	N-CA	-6.76	1.38	1.46
5	N	14	LYS	CA-C	-6.76	1.44	1.52
5	W	14	LYS	CA-C	-6.76	1.44	1.52
3	D	660	LEU	N-CA	-6.76	1.38	1.46
6	O	217	GLN	CA-C	-6.76	1.44	1.52
2	K	499	ASP	N-CA	-6.75	1.37	1.46
4	V	483	GLU	CA-C	-6.75	1.44	1.52
4	E	483	GLU	CA-C	-6.73	1.44	1.52
3	D	769	VAL	CA-C	-6.73	1.44	1.52
3	L	479	ILE	N-CA	-6.73	1.38	1.46
3	D	288	LEU	C-N	6.72	1.39	1.33
3	L	660	LEU	N-CA	-6.72	1.38	1.46
3	L	331	GLY	CA-C	-6.72	1.42	1.51
3	L	139	GLU	CA-C	-6.72	1.44	1.52
2	K	510	ALA	N-CA	-6.71	1.38	1.47
4	M	404	MET	C-N	6.70	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	623	GLN	CA-C	-6.70	1.45	1.53
6	G	229	GLU	C-N	6.69	1.43	1.33
2	C	499	ASP	N-CA	-6.69	1.37	1.46
3	L	769	VAL	CA-C	-6.69	1.44	1.52
6	O	196	MET	N-CA	-6.69	1.38	1.46
2	C	510	ALA	N-CA	-6.68	1.38	1.47
3	D	53	PHE	N-CA	-6.68	1.37	1.46
2	C	288	ARG	CA-C	-6.67	1.44	1.52
6	G	853	ALA	C-N	6.67	1.43	1.33
6	G	380	ARG	CA-C	-6.67	1.44	1.52
2	K	111	ALA	C-N	6.67	1.42	1.33
2	C	111	ALA	C-N	6.67	1.42	1.33
2	C	723	ALA	CA-C	-6.67	1.42	1.52
4	E	404	MET	C-N	6.66	1.42	1.33
2	K	226	ASP	CA-C	-6.66	1.43	1.52
7	P	58	TYR	N-CA	-6.66	1.38	1.46
2	K	288	ARG	CA-C	-6.66	1.44	1.52
6	O	380	ARG	CA-C	-6.65	1.44	1.52
6	O	853	ALA	C-N	6.65	1.43	1.33
4	V	294	LEU	CA-C	-6.65	1.44	1.52
3	L	53	PHE	N-CA	-6.65	1.37	1.46
3	D	331	GLY	CA-C	-6.65	1.42	1.51
2	K	723	ALA	CA-C	-6.65	1.42	1.52
6	O	229	GLU	C-N	6.65	1.43	1.33
4	V	404	MET	C-N	6.64	1.42	1.33
3	D	83	VAL	N-CA	-6.64	1.38	1.46
2	K	741	ASP	CA-C	-6.64	1.45	1.52
4	M	483	GLU	CA-C	-6.64	1.44	1.52
3	D	46	THR	CA-C	-6.63	1.43	1.52
4	V	170	SER	N-CA	-6.63	1.38	1.46
4	E	170	SER	N-CA	-6.63	1.38	1.46
2	C	121	ASN	CA-C	-6.63	1.44	1.52
3	D	749	GLY	C-N	6.63	1.40	1.33
4	M	337	ASN	N-CA	-6.63	1.38	1.46
2	C	602	ALA	C-N	6.62	1.42	1.33
3	L	649	LEU	C-N	6.62	1.42	1.33
3	D	139	GLU	CA-C	-6.62	1.44	1.52
2	K	121	ASN	CA-C	-6.62	1.44	1.52
3	L	46	THR	CA-C	-6.62	1.43	1.52
4	M	351	THR	CA-C	6.62	1.61	1.52
4	E	337	ASN	N-CA	-6.62	1.38	1.46
3	L	749	GLY	C-N	6.62	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	460	TRP	C-N	6.62	1.42	1.33
3	L	199	LYS	CA-C	-6.61	1.45	1.52
4	E	838	HIS	CA-C	-6.61	1.44	1.52
2	K	463	ASN	N-CA	-6.61	1.37	1.46
6	G	196	MET	N-CA	-6.61	1.38	1.46
2	K	602	ALA	C-N	6.61	1.42	1.33
2	C	226	ASP	CA-C	-6.61	1.44	1.52
6	G	456	ARG	CA-C	-6.60	1.44	1.52
4	E	294	LEU	CA-C	-6.60	1.44	1.52
7	H	58	TYR	N-CA	-6.60	1.38	1.46
3	D	199	LYS	CA-C	-6.60	1.45	1.52
4	M	170	SER	N-CA	-6.59	1.38	1.46
4	M	49	THR	CA-C	-6.59	1.44	1.52
4	V	351	THR	CA-C	6.59	1.61	1.52
6	G	460	TRP	C-N	6.58	1.42	1.33
2	C	741	ASP	CA-C	-6.58	1.45	1.52
4	V	838	HIS	CA-C	-6.58	1.44	1.52
4	E	49	THR	CA-C	-6.58	1.44	1.52
3	L	83	VAL	N-CA	-6.58	1.38	1.46
2	C	42	THR	CA-C	-6.57	1.44	1.52
4	E	229	TYR	CA-C	-6.57	1.44	1.52
5	W	52	THR	N-CA	-6.57	1.38	1.46
2	K	42	THR	CA-C	-6.57	1.44	1.52
3	L	288	LEU	C-N	6.57	1.39	1.33
4	E	423	SER	N-CA	-6.56	1.38	1.46
6	G	122	ARG	N-CA	-6.56	1.38	1.46
5	N	52	THR	N-CA	-6.56	1.38	1.46
4	V	337	ASN	N-CA	-6.56	1.38	1.46
3	D	227	GLY	CA-C	-6.56	1.42	1.51
5	F	52	THR	N-CA	-6.56	1.38	1.46
6	O	386	THR	C-N	6.56	1.42	1.33
6	G	741	VAL	N-CA	-6.55	1.38	1.46
3	L	541	ASN	CA-C	-6.55	1.44	1.53
2	C	463	ASN	N-CA	-6.55	1.37	1.46
6	O	741	VAL	N-CA	-6.55	1.38	1.46
4	M	423	SER	N-CA	-6.55	1.38	1.46
6	O	456	ARG	CA-C	-6.55	1.44	1.52
4	M	294	LEU	CA-C	-6.55	1.44	1.52
4	E	351	THR	CA-C	6.55	1.61	1.52
3	D	541	ASN	CA-C	-6.54	1.44	1.53
6	O	121	LEU	CA-C	-6.54	1.44	1.52
6	G	121	LEU	CA-C	-6.54	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	122	ARG	N-CA	-6.53	1.38	1.46
2	K	229	VAL	N-CA	-6.53	1.38	1.46
3	L	297	VAL	CA-C	-6.52	1.44	1.52
2	C	229	VAL	N-CA	-6.52	1.38	1.46
3	D	649	LEU	C-N	6.52	1.42	1.33
4	V	423	SER	N-CA	-6.52	1.38	1.46
6	G	914	SER	CA-C	-6.52	1.44	1.52
3	L	227	GLY	CA-C	-6.52	1.42	1.51
3	D	404	ALA	N-CA	-6.51	1.37	1.45
4	E	431	SER	CA-C	-6.51	1.44	1.52
3	L	81	ILE	CA-C	-6.51	1.45	1.52
5	F	89	MET	CA-C	-6.51	1.44	1.52
6	G	386	THR	C-N	6.51	1.42	1.33
4	V	229	TYR	CA-C	-6.50	1.44	1.52
6	G	884	ILE	C-N	6.50	1.42	1.34
4	V	49	THR	CA-C	-6.50	1.44	1.52
3	D	81	ILE	CA-C	-6.50	1.45	1.52
6	O	914	SER	CA-C	-6.50	1.44	1.52
4	E	551	LEU	N-CA	-6.49	1.37	1.46
5	N	89	MET	CA-C	-6.49	1.44	1.52
3	D	297	VAL	CA-C	-6.49	1.44	1.52
4	V	431	SER	CA-C	-6.48	1.44	1.52
6	O	884	ILE	C-N	6.48	1.42	1.34
2	C	300	HIS	CA-C	-6.48	1.45	1.52
3	L	404	ALA	N-CA	-6.47	1.38	1.45
3	D	80	GLN	N-CA	-6.47	1.37	1.45
3	L	116	THR	CA-C	-6.46	1.44	1.52
3	L	697	GLY	CA-C	-6.46	1.45	1.52
2	C	231	ILE	CA-C	-6.46	1.45	1.52
2	K	433	HIS	C-N	6.46	1.42	1.33
7	P	110	ILE	N-CA	-6.46	1.38	1.46
2	C	433	HIS	C-N	6.46	1.42	1.33
6	O	431	PHE	N-CA	-6.46	1.37	1.46
4	V	614	GLN	CA-C	-6.45	1.44	1.52
2	C	436	LEU	N-CA	-6.45	1.38	1.45
3	D	697	GLY	CA-C	-6.44	1.45	1.52
4	E	608	THR	C-N	6.44	1.42	1.33
2	K	436	LEU	N-CA	-6.44	1.38	1.45
4	M	229	TYR	CA-C	-6.44	1.44	1.52
3	D	510	ILE	CA-C	-6.44	1.45	1.52
4	E	614	GLN	CA-C	-6.44	1.44	1.52
4	V	551	LEU	N-CA	-6.44	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	N	101	LEU	CA-C	-6.43	1.44	1.52
3	D	283	SER	C-N	6.43	1.42	1.33
4	M	551	LEU	N-CA	-6.43	1.37	1.46
5	W	89	MET	CA-C	-6.43	1.44	1.52
4	V	101	ASP	C-N	6.42	1.41	1.34
5	F	101	LEU	CA-C	-6.42	1.44	1.52
7	H	110	ILE	N-CA	-6.42	1.38	1.46
2	K	218	PRO	N-CA	-6.42	1.39	1.47
4	M	101	ASP	C-N	6.42	1.41	1.34
4	M	431	SER	CA-C	-6.42	1.44	1.52
2	C	521	LEU	C-O	-6.42	1.16	1.24
2	C	218	PRO	N-CA	-6.42	1.39	1.47
3	L	76	ALA	N-CA	-6.42	1.36	1.46
2	K	231	ILE	CA-C	-6.41	1.45	1.52
2	K	521	LEU	C-O	-6.41	1.16	1.24
6	O	364	VAL	CA-C	-6.41	1.46	1.53
3	L	510	ILE	CA-C	-6.41	1.45	1.52
3	L	116	THR	N-CA	-6.41	1.37	1.45
3	D	76	ALA	N-CA	-6.40	1.36	1.46
3	D	123	ILE	N-CA	-6.40	1.38	1.46
3	L	283	SER	C-N	6.40	1.42	1.33
3	D	796	ASN	C-N	6.40	1.41	1.33
6	G	364	VAL	CA-C	-6.40	1.46	1.53
3	L	80	GLN	N-CA	-6.40	1.38	1.45
4	V	608	THR	C-N	6.39	1.42	1.33
4	E	79	SER	CA-C	-6.39	1.45	1.52
3	L	123	ILE	N-CA	-6.39	1.38	1.46
3	D	671	LYS	CA-C	-6.38	1.44	1.52
4	E	101	ASP	C-N	6.38	1.41	1.34
4	M	564	GLN	N-CA	-6.38	1.38	1.46
6	G	422	GLU	CA-C	-6.38	1.44	1.52
4	V	745	GLU	CA-C	6.37	1.60	1.52
3	L	671	LYS	CA-C	-6.37	1.44	1.52
4	E	745	GLU	CA-C	6.37	1.60	1.52
4	V	79	SER	CA-C	-6.37	1.45	1.52
3	D	116	THR	CA-C	-6.37	1.44	1.52
3	L	796	ASN	C-N	6.37	1.41	1.33
6	O	509	GLY	CA-C	-6.37	1.42	1.51
5	W	101	LEU	CA-C	-6.37	1.44	1.52
4	E	564	GLN	N-CA	-6.36	1.38	1.46
6	O	422	GLU	CA-C	-6.36	1.44	1.52
2	K	102	HIS	CA-C	-6.35	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	116	THR	N-CA	-6.35	1.37	1.45
6	G	431	PHE	N-CA	-6.35	1.37	1.46
4	M	79	SER	CA-C	-6.35	1.45	1.52
2	K	300	HIS	CA-C	-6.33	1.45	1.52
2	C	614	MET	N-CA	-6.33	1.38	1.46
2	K	691	GLU	CA-C	-6.33	1.44	1.52
6	O	780	ASP	N-CA	-6.33	1.37	1.46
6	O	922	ALA	CA-C	-6.33	1.45	1.52
2	C	102	HIS	CA-C	-6.32	1.44	1.52
6	G	509	GLY	CA-C	-6.32	1.42	1.51
6	G	173	ALA	N-CA	-6.32	1.37	1.46
3	L	104	CYS	CA-C	-6.32	1.44	1.52
6	G	780	ASP	N-CA	-6.31	1.37	1.46
4	V	564	GLN	N-CA	-6.31	1.38	1.46
4	M	301	ALA	C-N	6.31	1.42	1.34
3	D	431	GLU	C-N	6.31	1.41	1.33
3	D	654	LEU	CA-C	-6.31	1.44	1.52
6	G	18	SER	CA-C	-6.30	1.44	1.52
3	D	114	ILE	N-CA	-6.30	1.38	1.46
6	G	278	ILE	CA-C	-6.30	1.45	1.52
6	G	922	ALA	CA-C	-6.30	1.45	1.52
7	H	91	PRO	C-N	6.30	1.42	1.33
6	O	85	VAL	C-N	6.30	1.43	1.33
6	O	18	SER	CA-C	-6.30	1.44	1.52
3	L	654	LEU	CA-C	-6.29	1.44	1.52
2	K	614	MET	N-CA	-6.29	1.38	1.46
4	E	301	ALA	C-N	6.29	1.42	1.34
6	O	173	ALA	N-CA	-6.29	1.37	1.46
3	D	711	MET	CA-C	-6.29	1.46	1.53
4	M	60	HIS	C-N	6.29	1.41	1.33
4	M	364	ILE	N-CA	-6.29	1.38	1.46
2	C	135	ASN	C-N	6.29	1.41	1.33
3	L	774	ARG	C-N	6.29	1.42	1.33
6	O	774	GLU	CA-C	-6.28	1.45	1.52
4	V	797	LEU	CA-C	-6.28	1.44	1.52
3	D	222	VAL	N-CA	-6.28	1.39	1.46
6	O	278	ILE	CA-C	-6.28	1.45	1.52
4	E	364	ILE	N-CA	-6.28	1.38	1.46
4	E	632	SER	C-N	6.28	1.42	1.33
3	L	431	GLU	C-N	6.27	1.41	1.33
4	V	364	ILE	N-CA	-6.27	1.38	1.46
6	G	907	ALA	N-CA	-6.27	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	60	HIS	C-N	6.27	1.41	1.33
4	E	797	LEU	CA-C	-6.27	1.44	1.52
3	L	222	VAL	N-CA	-6.26	1.39	1.46
4	V	378	VAL	N-CA	-6.26	1.39	1.46
2	C	723	ALA	C-N	6.26	1.41	1.33
6	G	774	GLU	CA-C	-6.26	1.45	1.52
2	C	374	GLU	CA-C	-6.26	1.44	1.52
6	G	85	VAL	C-N	6.25	1.43	1.33
6	O	748	HIS	N-CA	-6.25	1.38	1.45
6	G	748	HIS	N-CA	-6.25	1.38	1.45
2	K	535	TRP	C-N	6.25	1.42	1.33
4	V	301	ALA	C-N	6.25	1.42	1.34
4	V	632	SER	C-N	6.25	1.42	1.33
2	C	535	TRP	C-N	6.25	1.42	1.33
6	G	266	GLY	CA-C	-6.25	1.45	1.52
2	K	374	GLU	CA-C	-6.25	1.44	1.52
4	V	480	VAL	CA-C	-6.25	1.44	1.52
6	O	907	ALA	N-CA	-6.25	1.38	1.46
3	L	114	ILE	N-CA	-6.24	1.38	1.46
5	N	30	TYR	C-N	6.24	1.42	1.33
2	K	124	SER	C-N	6.24	1.43	1.33
3	D	774	ARG	C-N	6.24	1.42	1.33
5	N	98	PHE	CA-C	-6.24	1.45	1.52
2	C	124	SER	C-N	6.23	1.43	1.33
5	F	98	PHE	CA-C	-6.23	1.45	1.52
4	M	378	VAL	N-CA	-6.23	1.39	1.46
6	G	36	LYS	CA-C	-6.23	1.44	1.52
2	K	135	ASN	CA-C	-6.23	1.44	1.52
3	L	376	ILE	CA-C	-6.23	1.45	1.52
2	C	449	GLN	C-N	6.23	1.40	1.33
3	D	80	GLN	CA-C	-6.22	1.45	1.52
4	M	520	ASP	CA-C	-6.22	1.46	1.53
6	O	266	GLY	CA-C	-6.22	1.45	1.52
5	F	30	TYR	C-N	6.22	1.42	1.33
4	M	114	THR	C-N	6.22	1.39	1.33
3	D	414	ILE	N-CA	-6.22	1.39	1.46
4	E	520	ASP	CA-C	-6.22	1.46	1.53
2	K	135	ASN	C-N	6.22	1.41	1.33
4	V	60	HIS	C-N	6.22	1.41	1.33
2	K	672	ASN	CA-C	-6.22	1.44	1.52
3	D	376	ILE	CA-C	-6.21	1.45	1.52
4	E	480	VAL	CA-C	-6.21	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	80	GLN	CA-C	-6.21	1.45	1.52
4	M	480	VAL	CA-C	-6.21	1.44	1.52
4	V	863	GLU	CA-C	6.21	1.60	1.52
2	C	135	ASN	CA-C	-6.21	1.44	1.52
2	C	672	ASN	CA-C	-6.21	1.44	1.52
2	K	449	GLN	C-N	6.21	1.40	1.33
6	G	756	LEU	CA-C	-6.21	1.45	1.52
5	N	45	GLU	N-CA	-6.21	1.39	1.46
6	G	255	SER	C-N	6.20	1.42	1.33
4	V	280	CYS	N-CA	-6.20	1.38	1.46
4	E	378	VAL	N-CA	-6.20	1.39	1.46
5	W	98	PHE	CA-C	-6.20	1.45	1.52
5	F	45	GLU	N-CA	-6.20	1.39	1.46
3	L	711	MET	CA-C	-6.19	1.46	1.53
3	D	104	CYS	CA-C	-6.19	1.45	1.52
3	D	255	ILE	N-CA	-6.19	1.38	1.46
7	P	91	PRO	C-N	6.19	1.42	1.33
3	L	414	ILE	N-CA	-6.19	1.39	1.46
2	K	723	ALA	C-N	6.19	1.41	1.33
6	O	756	LEU	CA-C	-6.19	1.45	1.52
5	W	45	GLU	N-CA	-6.18	1.39	1.46
2	K	286	THR	N-CA	-6.18	1.38	1.46
4	V	114	THR	C-N	6.17	1.39	1.33
2	C	378	LEU	N-CA	-6.17	1.38	1.46
4	E	863	GLU	CA-C	6.17	1.60	1.52
3	L	391	ALA	C-N	6.17	1.42	1.33
4	E	280	CYS	N-CA	-6.17	1.38	1.46
4	V	86	ARG	C-N	6.17	1.42	1.33
6	O	903	CYS	CA-C	-6.17	1.45	1.52
3	D	520	ILE	CA-C	-6.16	1.44	1.52
3	L	520	ILE	CA-C	-6.16	1.44	1.52
4	V	783	PHE	C-N	6.16	1.41	1.33
3	L	330	MET	CA-C	-6.16	1.45	1.52
6	O	57	GLY	N-CA	6.16	1.53	1.45
2	C	84	ARG	N-CA	-6.16	1.38	1.45
2	C	691	GLU	CA-C	-6.15	1.44	1.52
4	E	86	ARG	C-N	6.15	1.42	1.33
6	O	535	LYS	CA-C	-6.15	1.44	1.52
7	H	374	ILE	CA-C	-6.15	1.48	1.53
6	O	36	LYS	CA-C	-6.15	1.44	1.52
2	C	286	THR	N-CA	-6.15	1.38	1.46
4	E	783	PHE	C-N	6.15	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	535	LYS	CA-C	-6.15	1.44	1.52
6	G	962	SER	N-CA	-6.15	1.38	1.46
4	V	520	ASP	CA-C	-6.15	1.46	1.53
6	O	255	SER	C-N	6.14	1.42	1.33
4	M	280	CYS	N-CA	-6.14	1.38	1.46
5	W	30	TYR	C-N	6.14	1.41	1.33
3	L	542	ARG	CA-C	-6.13	1.45	1.52
6	O	962	SER	N-CA	-6.13	1.38	1.46
2	C	784	THR	C-N	6.13	1.40	1.33
6	G	417	ALA	CA-C	-6.13	1.44	1.52
3	D	622	ALA	N-CA	-6.13	1.39	1.46
2	K	378	LEU	N-CA	-6.13	1.38	1.46
2	K	485	SER	CA-C	-6.12	1.45	1.52
7	H	108	ASP	CA-C	-6.12	1.45	1.52
6	O	403	PRO	C-N	6.12	1.41	1.34
3	L	622	ALA	N-CA	-6.12	1.39	1.46
4	M	341	ALA	CA-C	-6.12	1.44	1.52
3	L	255	ILE	N-CA	-6.11	1.39	1.46
4	V	841	LEU	CA-C	-6.11	1.45	1.52
6	G	403	PRO	C-N	6.11	1.41	1.34
6	G	903	CYS	CA-C	-6.11	1.45	1.52
6	G	57	GLY	N-CA	6.11	1.53	1.45
4	M	86	ARG	C-N	6.10	1.42	1.33
7	P	108	ASP	CA-C	-6.10	1.45	1.52
2	C	274	ARG	CA-C	-6.10	1.45	1.52
4	E	841	LEU	CA-C	-6.10	1.45	1.52
6	G	214	ASP	N-CA	-6.10	1.39	1.46
2	K	274	ARG	CA-C	-6.10	1.45	1.52
4	E	114	THR	C-N	6.10	1.39	1.33
6	O	417	ALA	CA-C	-6.09	1.44	1.52
4	E	382	ALA	CA-C	-6.09	1.45	1.52
6	G	575	LYS	CA-C	-6.09	1.46	1.53
2	K	84	ARG	N-CA	-6.09	1.38	1.45
2	C	605	ASN	C-N	6.08	1.41	1.33
3	D	391	ALA	C-N	6.08	1.42	1.33
3	D	330	MET	CA-C	-6.08	1.45	1.52
5	F	16	ILE	CA-C	-6.08	1.45	1.52
3	D	542	ARG	CA-C	-6.07	1.45	1.52
2	K	784	THR	C-N	6.07	1.40	1.33
3	L	308	MET	N-CA	-6.07	1.38	1.46
2	C	485	SER	CA-C	-6.07	1.45	1.52
3	D	441	VAL	C-O	6.07	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	487	LYS	CA-C	-6.06	1.45	1.52
4	E	341	ALA	CA-C	-6.06	1.44	1.52
5	W	16	ILE	CA-C	-6.06	1.45	1.52
4	M	82	PRO	N-CA	-6.06	1.39	1.47
4	V	341	ALA	CA-C	-6.06	1.45	1.52
2	C	183	GLY	N-CA	6.05	1.52	1.45
4	E	384	SER	C-N	-6.05	1.25	1.33
4	M	319	PRO	C-N	6.05	1.41	1.33
3	L	441	VAL	C-O	6.05	1.30	1.24
6	O	374	GLU	CA-C	6.05	1.60	1.52
4	E	82	PRO	N-CA	-6.05	1.39	1.47
4	V	319	PRO	C-N	6.05	1.41	1.33
4	M	384	SER	C-N	-6.05	1.25	1.33
2	K	689	ILE	C-N	6.04	1.41	1.33
2	K	97	ARG	CA-C	-6.04	1.44	1.52
5	N	16	ILE	CA-C	-6.04	1.45	1.52
4	V	278	PRO	N-CA	-6.04	1.39	1.47
3	D	124	LYS	CA-C	-6.04	1.45	1.52
2	C	614	MET	C-N	6.04	1.41	1.33
2	K	605	ASN	C-N	6.04	1.41	1.33
6	O	575	LYS	CA-C	-6.04	1.46	1.53
4	V	228	ALA	CA-C	-6.04	1.45	1.52
6	G	358	ILE	CA-C	-6.03	1.45	1.52
2	K	183	GLY	N-CA	6.03	1.52	1.45
4	V	290	SER	N-CA	-6.03	1.37	1.45
4	E	290	SER	N-CA	-6.03	1.37	1.45
4	M	382	ALA	CA-C	-6.03	1.45	1.52
4	E	228	ALA	CA-C	-6.03	1.45	1.52
7	P	98	GLU	C-N	6.03	1.41	1.33
4	V	384	SER	C-N	-6.03	1.25	1.33
3	D	724	LYS	N-CA	-6.02	1.38	1.46
2	C	701	ASP	CA-C	6.02	1.60	1.52
3	L	613	ILE	CA-C	-6.02	1.46	1.52
3	L	724	LYS	N-CA	-6.02	1.38	1.46
4	M	290	SER	N-CA	-6.02	1.37	1.45
6	O	214	ASP	N-CA	-6.02	1.39	1.46
6	O	358	ILE	CA-C	-6.02	1.45	1.52
6	O	744	GLU	N-CA	-6.02	1.38	1.45
2	C	49	GLU	C-N	6.02	1.41	1.33
4	M	326	ASN	CA-C	-6.01	1.45	1.52
6	O	251	ASN	C-N	6.01	1.41	1.33
3	L	440	GLY	CA-C	-6.01	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	487	LYS	CA-C	-6.00	1.45	1.52
2	C	689	ILE	C-N	6.00	1.41	1.33
4	V	91	THR	C-N	6.00	1.41	1.33
2	C	97	ARG	CA-C	-6.00	1.45	1.52
4	E	319	PRO	C-N	6.00	1.41	1.33
6	G	766	ASP	CA-C	-6.00	1.45	1.53
4	V	382	ALA	CA-C	-6.00	1.45	1.52
3	D	440	GLY	CA-C	-6.00	1.48	1.52
3	D	741	CYS	C-O	-6.00	1.17	1.24
3	L	405	ILE	N-CA	-6.00	1.39	1.46
2	K	132	THR	CA-C	-5.99	1.45	1.52
2	C	132	THR	CA-C	-5.99	1.45	1.52
6	O	766	ASP	CA-C	-5.99	1.45	1.53
2	C	6	GLU	N-CA	-5.99	1.38	1.46
3	L	124	LYS	CA-C	-5.99	1.45	1.52
4	M	228	ALA	CA-C	-5.99	1.45	1.52
3	D	178	ASN	C-N	5.99	1.40	1.33
6	G	374	GLU	CA-C	5.99	1.59	1.52
5	W	98	PHE	N-CA	-5.99	1.39	1.46
5	N	98	PHE	N-CA	-5.98	1.39	1.46
6	G	251	ASN	C-N	5.98	1.41	1.33
3	L	741	CYS	C-O	-5.98	1.17	1.24
4	V	82	PRO	N-CA	-5.98	1.39	1.47
4	E	91	THR	C-N	5.98	1.41	1.33
3	D	308	MET	N-CA	-5.98	1.38	1.46
4	E	825	THR	CA-C	-5.97	1.45	1.52
4	M	278	PRO	N-CA	-5.97	1.39	1.47
4	E	326	ASN	CA-C	-5.97	1.45	1.52
5	F	120	GLY	CA-C	-5.97	1.45	1.52
2	K	614	MET	C-N	5.97	1.41	1.33
2	K	358	ARG	C-N	5.97	1.42	1.33
3	L	178	ASN	C-N	5.97	1.40	1.33
4	M	163	SER	C-N	5.97	1.42	1.33
5	F	98	PHE	N-CA	-5.97	1.39	1.46
2	K	6	GLU	N-CA	-5.96	1.38	1.46
2	K	49	GLU	C-N	5.96	1.41	1.33
4	V	326	ASN	CA-C	-5.96	1.45	1.52
5	F	133	VAL	CA-C	-5.96	1.45	1.52
4	E	856	VAL	N-CA	-5.96	1.39	1.46
4	M	91	THR	C-N	5.96	1.41	1.33
3	D	613	ILE	CA-C	-5.96	1.46	1.52
4	E	278	PRO	N-CA	-5.96	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	744	GLU	N-CA	-5.96	1.38	1.45
3	L	397	ALA	CA-C	-5.96	1.44	1.52
7	H	98	GLU	C-N	5.96	1.41	1.33
3	L	254	ARG	CA-C	-5.96	1.45	1.52
3	D	254	ARG	CA-C	-5.96	1.45	1.52
3	D	397	ALA	CA-C	-5.95	1.44	1.52
4	E	163	SER	C-N	5.95	1.42	1.33
3	D	448	ALA	CA-C	-5.95	1.45	1.52
5	W	69	TYR	CA-C	5.95	1.59	1.52
6	G	53	GLU	CA-C	-5.95	1.45	1.52
6	O	905	PHE	CA-C	-5.95	1.45	1.52
4	V	856	VAL	N-CA	-5.95	1.39	1.46
2	K	701	ASP	CA-C	5.94	1.60	1.52
3	L	448	ALA	CA-C	-5.94	1.45	1.52
2	C	358	ARG	C-N	5.94	1.42	1.33
5	N	133	VAL	CA-C	-5.94	1.45	1.52
2	C	389	SER	CA-C	-5.94	1.48	1.53
2	K	281	ARG	C-N	5.94	1.40	1.33
4	M	455	ILE	C-O	-5.94	1.17	1.24
4	E	78	GLN	C-N	5.94	1.41	1.33
4	E	455	ILE	C-O	-5.93	1.17	1.24
4	V	840	ILE	N-CA	-5.93	1.39	1.46
4	E	500	ALA	N-CA	-5.93	1.39	1.46
6	O	857	GLN	CA-C	-5.93	1.45	1.52
5	N	69	TYR	CA-C	5.93	1.59	1.52
5	W	133	VAL	CA-C	-5.93	1.45	1.52
4	E	50	LYS	C-N	5.92	1.41	1.33
4	E	665	CYS	C-N	5.92	1.42	1.33
4	V	163	SER	C-N	5.92	1.42	1.33
4	V	825	THR	CA-C	-5.92	1.45	1.52
3	D	430	ALA	CA-C	-5.92	1.45	1.52
6	G	547	LEU	CA-C	-5.91	1.44	1.52
3	L	430	ALA	CA-C	-5.91	1.45	1.52
3	D	168	LYS	N-CA	-5.91	1.38	1.46
6	O	160	TYR	C-N	5.91	1.41	1.34
4	E	840	ILE	N-CA	-5.91	1.39	1.46
6	G	857	GLN	CA-C	-5.91	1.45	1.52
3	L	752	PRO	CA-C	-5.91	1.43	1.52
4	V	78	GLN	C-N	5.91	1.41	1.33
2	K	663	GLU	CA-C	-5.90	1.45	1.52
5	N	57	SER	CA-C	-5.90	1.45	1.52
4	V	119	ASN	N-CA	5.90	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	281	ARG	C-N	5.90	1.40	1.33
2	K	735	ASN	N-CA	-5.90	1.39	1.46
5	N	120	GLY	CA-C	-5.90	1.45	1.52
3	D	439	LEU	CA-C	-5.90	1.45	1.52
5	N	24	ASP	C-N	5.90	1.41	1.33
4	V	500	ALA	N-CA	-5.90	1.39	1.46
2	C	109	LEU	CA-C	-5.89	1.45	1.52
3	L	168	LYS	N-CA	-5.89	1.38	1.46
4	V	665	CYS	C-N	5.89	1.42	1.33
2	K	641	PHE	CA-C	-5.89	1.45	1.52
4	V	213	LYS	C-N	5.89	1.41	1.33
4	M	50	LYS	C-N	5.89	1.41	1.33
2	C	735	ASN	N-CA	-5.89	1.39	1.46
2	C	663	GLU	CA-C	-5.88	1.45	1.52
3	D	752	PRO	CA-C	-5.88	1.43	1.52
3	L	108	HIS	CA-C	-5.88	1.45	1.52
4	E	556	PRO	CA-C	5.88	1.60	1.52
4	M	556	PRO	CA-C	5.88	1.60	1.52
3	L	439	LEU	CA-C	-5.88	1.45	1.52
4	V	455	ILE	C-O	-5.88	1.17	1.24
5	F	57	SER	CA-C	-5.88	1.45	1.52
4	M	78	GLN	C-N	5.88	1.41	1.33
3	L	145	VAL	CA-C	-5.88	1.47	1.53
4	M	119	ASN	N-CA	5.88	1.53	1.46
4	V	61	LEU	C-N	5.88	1.37	1.33
5	W	57	SER	CA-C	-5.88	1.45	1.52
4	M	500	ALA	N-CA	-5.88	1.39	1.46
4	V	556	PRO	CA-C	5.88	1.60	1.52
6	G	160	TYR	C-N	5.87	1.41	1.34
2	C	561	ILE	C-N	-5.87	1.26	1.33
3	D	405	ILE	N-CA	-5.87	1.39	1.46
4	E	119	ASN	N-CA	5.87	1.53	1.46
2	K	109	LEU	CA-C	-5.87	1.45	1.52
5	F	69	TYR	CA-C	5.86	1.59	1.52
7	H	103	SER	C-N	5.86	1.42	1.34
2	K	70	GLY	CA-C	-5.86	1.46	1.52
4	V	50	LYS	C-N	5.86	1.41	1.33
6	G	905	PHE	CA-C	-5.86	1.45	1.52
4	M	494	ALA	CA-C	-5.86	1.45	1.52
3	D	262	ARG	N-CA	-5.86	1.38	1.46
2	K	389	SER	CA-C	-5.86	1.48	1.53
2	K	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	O	556	SER	CA-C	-5.85	1.45	1.52
2	C	70	GLY	CA-C	-5.85	1.46	1.52
3	D	145	VAL	CA-C	-5.85	1.47	1.53
2	K	561	ILE	C-N	-5.84	1.26	1.33
4	V	411	PHE	N-CA	-5.84	1.39	1.46
5	W	24	ASP	C-N	5.84	1.41	1.33
2	C	641	PHE	CA-C	-5.84	1.45	1.52
4	M	411	PHE	N-CA	-5.84	1.39	1.46
6	O	547	LEU	CA-C	-5.84	1.44	1.52
6	O	199	HIS	CA-C	-5.83	1.45	1.52
3	L	262	ARG	N-CA	-5.83	1.39	1.46
3	D	108	HIS	CA-C	-5.83	1.45	1.52
3	L	413	LYS	CA-C	-5.83	1.45	1.52
4	V	494	ALA	CA-C	-5.83	1.45	1.52
6	O	910	LEU	CA-C	-5.83	1.45	1.52
6	G	910	LEU	CA-C	-5.83	1.45	1.52
3	L	596	THR	C-O	-5.83	1.17	1.24
5	F	24	ASP	C-N	5.83	1.41	1.33
6	O	53	GLU	CA-C	-5.83	1.45	1.52
4	E	431	SER	C-O	-5.82	1.17	1.24
2	K	80	TYR	C-N	5.82	1.42	1.33
4	M	213	LYS	C-N	5.82	1.41	1.33
2	C	333	LEU	CA-C	-5.82	1.45	1.52
3	D	596	THR	C-O	-5.81	1.17	1.24
7	P	103	SER	C-N	5.81	1.42	1.34
4	V	431	SER	C-O	-5.81	1.17	1.24
3	L	600	ARG	N-CA	-5.81	1.38	1.46
4	E	494	ALA	CA-C	-5.81	1.45	1.52
6	O	140	ILE	CA-C	5.81	1.58	1.52
3	D	297	VAL	C-N	5.81	1.41	1.33
3	D	630	PHE	CA-C	-5.81	1.45	1.52
6	G	140	ILE	CA-C	5.81	1.58	1.52
2	C	507	ALA	CA-C	5.80	1.60	1.52
3	D	55	VAL	N-CA	-5.80	1.39	1.46
3	D	600	ARG	N-CA	-5.80	1.38	1.46
6	O	218	THR	CA-C	5.80	1.60	1.52
5	W	120	GLY	CA-C	-5.80	1.45	1.52
2	C	80	TYR	C-N	5.79	1.42	1.33
4	E	57	GLN	N-CA	-5.79	1.38	1.46
2	K	396	ILE	CA-C	-5.79	1.47	1.52
6	G	333	ASP	C-N	5.79	1.41	1.33
4	V	57	GLN	N-CA	-5.79	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	496	TRP	CA-C	-5.79	1.45	1.52
4	M	431	SER	C-O	-5.79	1.17	1.24
2	K	647	THR	CA-C	-5.78	1.45	1.52
4	E	213	LYS	C-N	5.78	1.41	1.33
4	M	242	GLU	N-CA	-5.78	1.39	1.46
4	V	242	GLU	N-CA	-5.78	1.39	1.46
3	D	413	LYS	CA-C	-5.78	1.46	1.52
3	D	635	LEU	C-N	5.78	1.41	1.33
6	G	537	GLU	C-N	5.78	1.37	1.33
6	G	936	ALA	CA-C	-5.78	1.46	1.53
6	O	477	THR	C-N	5.78	1.41	1.33
4	V	691	SER	CA-C	-5.78	1.45	1.52
3	D	294	SER	CA-C	-5.77	1.45	1.52
7	P	95	ARG	CA-C	-5.77	1.48	1.53
2	K	496	TRP	CA-C	-5.77	1.45	1.52
2	K	596	GLU	N-CA	-5.77	1.39	1.46
3	L	371	GLY	CA-C	-5.77	1.43	1.51
3	D	139	GLU	C-O	-5.77	1.17	1.24
6	G	501	LYS	C-N	-5.77	1.27	1.34
2	K	507	ALA	CA-C	5.77	1.60	1.52
3	L	297	VAL	C-N	5.77	1.41	1.33
4	M	57	GLN	N-CA	-5.77	1.39	1.46
6	O	333	ASP	C-N	5.77	1.41	1.33
2	C	267	ASN	CA-C	-5.77	1.45	1.52
6	G	218	THR	CA-C	5.77	1.60	1.52
4	E	242	GLU	N-CA	-5.77	1.39	1.46
6	G	132	LEU	CA-C	-5.77	1.45	1.52
5	N	26	LEU	C-N	5.76	1.41	1.33
4	V	610	GLN	CA-C	-5.76	1.45	1.52
3	D	371	GLY	CA-C	-5.76	1.43	1.51
2	K	603	LEU	C-N	5.76	1.41	1.33
4	E	411	PHE	N-CA	-5.76	1.39	1.46
2	K	267	ASN	CA-C	-5.76	1.45	1.52
2	C	64	PRO	C-N	5.76	1.40	1.33
4	E	765	GLN	N-CA	-5.76	1.39	1.46
6	G	199	HIS	CA-C	-5.76	1.45	1.52
6	O	540	PRO	C-O	-5.75	1.18	1.24
2	C	647	THR	CA-C	-5.75	1.45	1.52
3	D	595	GLN	N-CA	-5.75	1.39	1.46
3	L	595	GLN	N-CA	-5.75	1.39	1.46
3	L	635	LEU	C-N	5.75	1.41	1.33
5	W	26	LEU	C-N	5.75	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	84	PHE	N-CA	-5.75	1.38	1.45
3	L	225	LEU	CA-C	-5.75	1.45	1.52
3	L	630	PHE	CA-C	-5.75	1.45	1.52
6	O	501	LYS	C-N	-5.75	1.27	1.34
3	L	55	VAL	N-CA	-5.75	1.39	1.46
6	O	537	GLU	C-N	5.75	1.37	1.33
6	G	556	SER	CA-C	-5.74	1.45	1.52
4	V	618	ALA	CA-C	-5.74	1.44	1.52
4	M	61	LEU	C-N	5.74	1.37	1.33
6	O	936	ALA	CA-C	-5.74	1.46	1.53
7	H	95	ARG	CA-C	-5.74	1.48	1.53
2	C	396	ILE	CA-C	-5.73	1.47	1.52
2	K	215	PRO	CA-C	-5.73	1.44	1.52
2	C	401	ASP	CA-C	-5.73	1.45	1.52
6	O	324	ASP	N-CA	-5.73	1.39	1.46
3	D	203	ILE	N-CA	-5.73	1.39	1.46
5	F	26	LEU	C-N	5.73	1.41	1.33
5	N	36	PRO	C-N	5.73	1.41	1.33
2	C	603	LEU	C-N	5.72	1.41	1.33
3	D	737	LYS	N-CA	-5.72	1.39	1.45
4	E	691	SER	CA-C	-5.72	1.45	1.52
6	G	369	ASN	CA-C	-5.72	1.45	1.52
6	G	477	THR	C-N	5.72	1.41	1.33
2	K	672	ASN	C-O	-5.72	1.17	1.24
2	C	215	PRO	CA-C	-5.72	1.44	1.52
6	O	132	LEU	CA-C	-5.72	1.45	1.52
3	D	84	PHE	N-CA	-5.71	1.38	1.45
4	E	61	LEU	C-N	5.71	1.37	1.33
4	E	610	GLN	CA-C	-5.71	1.45	1.52
4	E	618	ALA	CA-C	-5.71	1.45	1.52
3	L	677	ALA	C-O	-5.71	1.17	1.24
3	L	448	ALA	N-CA	-5.71	1.39	1.46
6	G	864	TRP	CA-C	-5.71	1.44	1.52
4	V	471	LYS	CA-C	-5.71	1.45	1.52
3	L	294	SER	CA-C	-5.71	1.45	1.52
3	L	160	SER	CA-C	-5.71	1.45	1.52
4	V	765	GLN	N-CA	-5.70	1.39	1.46
6	G	540	PRO	C-O	-5.70	1.18	1.24
4	E	471	LYS	CA-C	-5.70	1.45	1.52
6	G	324	ASP	C-N	5.70	1.41	1.33
3	L	286	VAL	C-O	-5.70	1.18	1.23
3	D	448	ALA	N-CA	-5.70	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	482	LEU	CA-C	-5.69	1.45	1.52
2	C	64	PRO	CA-C	-5.69	1.44	1.52
2	K	614	MET	CA-C	-5.69	1.45	1.52
2	K	64	PRO	C-N	5.69	1.40	1.33
2	K	192	THR	C-N	5.69	1.41	1.33
3	L	362	PRO	N-CA	-5.69	1.40	1.47
2	C	192	THR	C-N	5.69	1.41	1.33
3	D	312	GLY	C-N	5.68	1.41	1.33
6	O	864	TRP	CA-C	-5.68	1.44	1.52
4	E	725	SER	C-N	5.68	1.41	1.33
6	G	324	ASP	N-CA	-5.68	1.39	1.46
2	C	596	GLU	N-CA	-5.68	1.39	1.46
3	D	362	PRO	N-CA	-5.68	1.40	1.47
5	W	36	PRO	C-N	5.68	1.41	1.33
3	D	101	TYR	N-CA	-5.68	1.38	1.45
3	L	737	LYS	N-CA	-5.68	1.39	1.45
3	D	225	LEU	CA-C	-5.68	1.46	1.52
4	V	482	LEU	CA-C	-5.68	1.45	1.52
2	K	23	TRP	C-N	5.67	1.41	1.33
3	L	139	GLU	C-O	-5.67	1.17	1.24
3	L	312	GLY	C-N	5.67	1.41	1.33
4	M	491	ALA	CA-C	-5.67	1.45	1.52
6	O	838	HIS	C-N	5.67	1.41	1.33
3	D	744	LEU	CA-C	-5.67	1.45	1.52
2	C	23	TRP	C-N	5.67	1.41	1.33
2	C	614	MET	CA-C	-5.67	1.45	1.52
2	K	401	ASP	CA-C	-5.67	1.45	1.52
4	M	471	LYS	CA-C	-5.67	1.45	1.52
6	O	324	ASP	C-N	5.67	1.41	1.33
4	V	725	SER	C-N	5.67	1.41	1.33
3	D	677	ALA	C-O	-5.67	1.17	1.24
6	G	843	ASP	CA-C	-5.66	1.45	1.52
4	V	821	GLU	CA-C	-5.66	1.45	1.52
3	D	136	GLN	N-CA	-5.66	1.38	1.45
3	L	101	TYR	N-CA	-5.66	1.38	1.45
6	O	369	ASN	CA-C	-5.66	1.45	1.52
2	C	445	THR	N-CA	-5.66	1.39	1.46
4	E	537	GLN	CA-C	-5.66	1.45	1.52
3	L	203	ILE	N-CA	-5.66	1.39	1.46
3	D	160	SER	CA-C	-5.66	1.45	1.52
4	E	96	SER	C-N	5.66	1.42	1.33
3	L	136	GLN	N-CA	-5.66	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	H	56	TYR	N-CA	-5.65	1.39	1.46
3	D	547	VAL	N-CA	-5.65	1.39	1.46
4	E	821	GLU	CA-C	-5.65	1.45	1.52
2	K	315	ILE	C-N	5.65	1.40	1.33
3	D	286	VAL	C-O	-5.65	1.18	1.23
3	L	547	VAL	N-CA	-5.64	1.39	1.46
4	M	537	GLN	CA-C	-5.64	1.45	1.52
2	K	64	PRO	CA-C	-5.64	1.44	1.52
4	E	744	GLU	C-N	5.64	1.41	1.33
4	V	537	GLN	CA-C	-5.64	1.45	1.52
5	F	30	TYR	CA-C	-5.64	1.45	1.52
6	G	849	THR	N-CA	-5.64	1.38	1.45
6	O	418	ALA	CA-C	-5.64	1.45	1.52
4	E	482	LEU	CA-C	-5.63	1.45	1.52
2	C	672	ASN	C-O	-5.63	1.17	1.24
6	G	838	HIS	C-N	5.63	1.41	1.33
3	L	756	PHE	N-CA	-5.63	1.39	1.46
2	K	735	ASN	CA-C	-5.63	1.45	1.52
4	V	255	ILE	C-N	5.63	1.41	1.33
5	F	36	PRO	C-N	5.63	1.41	1.33
6	G	839	ILE	CA-C	-5.63	1.45	1.52
4	V	491	ALA	CA-C	-5.63	1.45	1.52
3	D	756	PHE	N-CA	-5.62	1.39	1.46
4	V	672	GLN	CA-C	-5.62	1.46	1.52
2	K	88	THR	CA-C	-5.62	1.45	1.52
2	C	230	LYS	N-CA	-5.62	1.39	1.46
4	E	717	PRO	CA-C	-5.62	1.44	1.52
2	K	40	MET	N-CA	5.62	1.53	1.46
2	C	88	THR	CA-C	-5.62	1.45	1.52
6	O	843	ASP	CA-C	-5.62	1.45	1.52
4	V	744	GLU	C-N	5.61	1.41	1.33
4	E	672	GLN	CA-C	-5.61	1.46	1.52
7	P	56	TYR	N-CA	-5.61	1.39	1.46
6	O	282	ALA	N-CA	-5.60	1.39	1.46
3	L	744	LEU	CA-C	-5.60	1.45	1.52
6	G	281	ALA	C-N	5.60	1.41	1.33
6	O	281	ALA	C-N	5.60	1.41	1.33
2	K	781	GLU	CA-C	-5.60	1.45	1.52
3	L	9	ARG	CA-C	-5.60	1.46	1.53
2	C	600	LYS	C-N	5.59	1.41	1.33
4	E	491	ALA	CA-C	-5.59	1.45	1.52
6	G	245	PHE	C-N	5.59	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	428	PHE	CA-C	-5.59	1.46	1.53
4	M	96	SER	C-N	5.59	1.42	1.33
6	G	73	THR	N-CA	5.59	1.53	1.46
2	C	781	GLU	CA-C	-5.59	1.45	1.52
6	G	282	ALA	N-CA	-5.59	1.39	1.46
3	D	466	LYS	CA-C	-5.58	1.45	1.52
4	E	199	LEU	CA-C	-5.58	1.45	1.52
2	K	529	ARG	CA-C	-5.58	1.45	1.52
5	N	30	TYR	CA-C	-5.58	1.45	1.52
6	O	839	ILE	CA-C	-5.58	1.45	1.52
4	V	96	SER	C-N	5.58	1.42	1.33
4	E	830	LEU	CA-C	-5.58	1.45	1.52
2	C	529	ARG	CA-C	-5.58	1.45	1.52
2	K	230	LYS	N-CA	-5.58	1.39	1.46
2	K	445	THR	N-CA	-5.58	1.39	1.46
3	L	85	ASN	C-N	5.58	1.41	1.33
3	L	594	TYR	CA-C	-5.57	1.45	1.52
6	O	80	VAL	CA-C	-5.57	1.45	1.52
3	D	9	ARG	CA-C	-5.57	1.46	1.53
4	E	255	ILE	C-N	5.57	1.41	1.33
2	K	251	ASN	C-O	-5.57	1.17	1.24
3	L	233	SER	CA-C	-5.57	1.45	1.52
4	M	199	LEU	CA-C	-5.57	1.45	1.52
6	O	245	PHE	C-N	5.57	1.40	1.33
4	E	553	VAL	C-N	5.57	1.40	1.33
6	G	162	ILE	C-N	5.57	1.41	1.33
6	O	149	SER	C-N	5.57	1.41	1.33
2	K	592	ILE	CA-C	-5.56	1.46	1.52
5	W	74	ASP	N-CA	-5.56	1.40	1.46
4	E	437	SER	C-N	5.56	1.41	1.33
6	G	399	ALA	N-CA	-5.56	1.39	1.46
6	O	399	ALA	N-CA	-5.56	1.39	1.46
2	C	315	ILE	C-N	5.56	1.40	1.33
6	G	418	ALA	CA-C	-5.55	1.45	1.52
4	V	717	PRO	CA-C	-5.55	1.44	1.52
6	O	849	THR	N-CA	-5.55	1.38	1.45
2	C	735	ASN	CA-C	-5.55	1.45	1.52
4	M	553	VAL	C-N	5.55	1.40	1.33
3	D	95	PHE	CA-C	-5.55	1.45	1.52
3	D	594	TYR	CA-C	-5.54	1.45	1.52
3	L	466	LYS	CA-C	-5.54	1.45	1.52
4	V	733	LYS	CA-C	-5.54	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	W	30	TYR	CA-C	-5.54	1.45	1.52
2	K	474	LEU	CA-C	-5.54	1.45	1.52
2	C	251	ASN	C-O	-5.54	1.17	1.24
3	D	437	PHE	N-CA	5.54	1.52	1.46
6	O	73	THR	N-CA	5.54	1.52	1.46
3	D	233	SER	CA-C	-5.54	1.45	1.52
6	G	423	PHE	C-N	5.54	1.40	1.33
4	V	217	LYS	CA-C	-5.54	1.45	1.52
3	D	85	ASN	C-N	5.54	1.41	1.33
3	D	164	ASP	C-O	-5.54	1.16	1.24
3	L	632	GLN	CA-C	-5.54	1.45	1.52
4	V	199	LEU	CA-C	-5.54	1.45	1.52
4	V	830	LEU	CA-C	-5.53	1.46	1.52
3	D	379	THR	C-N	5.53	1.41	1.33
3	D	424	PHE	N-CA	-5.53	1.39	1.46
6	G	80	VAL	CA-C	-5.53	1.45	1.52
4	E	432	LYS	CA-C	-5.53	1.45	1.52
3	L	379	THR	C-N	5.53	1.41	1.33
4	M	217	LYS	CA-C	-5.53	1.45	1.52
3	L	428	PHE	CA-C	-5.53	1.46	1.53
2	C	40	MET	N-CA	5.52	1.53	1.46
4	M	277	LEU	N-CA	-5.52	1.41	1.46
4	M	255	ILE	C-N	5.52	1.41	1.33
6	O	556	SER	C-N	5.52	1.41	1.33
3	L	253	VAL	CA-C	-5.52	1.46	1.52
4	E	829	LEU	C-N	5.52	1.41	1.33
5	N	74	ASP	N-CA	-5.52	1.40	1.46
4	V	829	LEU	C-N	5.52	1.41	1.33
4	M	432	LYS	CA-C	-5.51	1.45	1.52
4	V	432	LYS	CA-C	-5.51	1.45	1.52
4	V	758	VAL	N-CA	-5.51	1.40	1.46
5	W	88	LEU	CA-C	-5.51	1.45	1.52
2	K	600	LYS	C-N	5.51	1.41	1.33
4	V	669	LEU	N-CA	-5.51	1.39	1.46
3	L	437	PHE	N-CA	5.51	1.52	1.46
4	M	437	SER	C-N	5.51	1.41	1.33
6	O	314	HIS	C-N	5.51	1.41	1.33
3	L	424	PHE	N-CA	-5.50	1.39	1.46
6	G	947	LYS	C-N	5.50	1.42	1.34
3	L	164	ASP	C-O	-5.50	1.16	1.24
7	P	87	SER	C-N	5.50	1.41	1.33
4	V	855	GLN	CA-C	-5.50	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	74	ASP	N-CA	-5.50	1.40	1.46
5	F	126	ASP	N-CA	5.50	1.53	1.46
5	N	126	ASP	N-CA	5.50	1.53	1.46
4	E	733	LYS	CA-C	-5.49	1.45	1.52
5	N	111	LYS	N-CA	-5.49	1.39	1.46
3	D	253	VAL	CA-C	-5.49	1.46	1.52
3	L	675	GLU	CA-C	-5.49	1.45	1.52
2	C	474	LEU	CA-C	-5.49	1.46	1.52
3	D	675	GLU	CA-C	-5.48	1.45	1.52
4	E	217	LYS	CA-C	-5.48	1.45	1.52
4	E	761	ALA	CA-C	-5.48	1.45	1.52
6	O	162	ILE	C-N	5.48	1.41	1.33
4	V	553	VAL	C-N	5.48	1.40	1.33
3	L	95	PHE	CA-C	-5.48	1.46	1.52
4	V	649	ARG	CA-C	-5.48	1.46	1.52
3	D	632	GLN	CA-C	-5.47	1.45	1.52
4	E	669	LEU	N-CA	-5.47	1.39	1.46
2	K	111	ALA	CA-C	-5.47	1.46	1.52
2	K	86	LEU	C-N	5.47	1.40	1.33
2	C	441	LYS	CA-C	-5.47	1.45	1.52
4	E	855	GLN	CA-C	-5.47	1.46	1.52
2	K	670	ASP	N-CA	-5.47	1.39	1.46
4	V	761	ALA	CA-C	-5.47	1.45	1.52
4	V	437	SER	C-N	5.47	1.41	1.33
2	C	86	LEU	C-N	5.47	1.40	1.33
2	C	111	ALA	CA-C	-5.47	1.46	1.52
2	C	514	CYS	CA-C	-5.47	1.46	1.52
5	F	88	LEU	CA-C	-5.47	1.45	1.52
6	G	97	GLU	N-CA	-5.47	1.39	1.46
3	L	200	PRO	CA-C	-5.46	1.44	1.52
4	V	546	TYR	N-CA	-5.46	1.39	1.46
4	E	758	VAL	N-CA	-5.46	1.40	1.46
6	O	277	ALA	N-CA	-5.46	1.39	1.46
5	W	126	ASP	N-CA	5.46	1.53	1.46
2	C	670	ASP	N-CA	-5.46	1.39	1.46
5	N	88	LEU	CA-C	-5.46	1.45	1.52
4	V	271	ALA	CA-C	5.46	1.59	1.52
4	V	801	VAL	C-N	5.46	1.41	1.33
2	C	35	LEU	CA-C	-5.46	1.46	1.52
4	E	546	TYR	N-CA	-5.46	1.39	1.46
4	V	810	MET	CA-C	-5.46	1.45	1.52
2	K	318	LYS	N-CA	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	592	ILE	CA-C	-5.45	1.46	1.52
7	H	87	SER	C-N	5.45	1.41	1.33
2	K	164	ILE	CA-C	-5.45	1.47	1.52
3	L	120	ASP	C-N	5.45	1.41	1.33
6	O	41	ALA	CA-C	-5.45	1.46	1.52
6	G	556	SER	C-N	5.45	1.41	1.33
3	L	83	VAL	CA-C	-5.45	1.46	1.52
6	G	314	HIS	C-N	5.45	1.41	1.33
2	K	441	LYS	CA-C	-5.45	1.45	1.52
3	L	357	THR	C-N	5.45	1.40	1.33
2	C	480	LYS	C-N	5.45	1.40	1.33
2	K	344	LEU	C-N	5.45	1.41	1.33
5	W	111	LYS	N-CA	-5.45	1.39	1.46
3	D	357	THR	C-N	5.44	1.40	1.33
4	E	277	LEU	N-CA	-5.44	1.41	1.46
2	C	344	LEU	C-N	5.44	1.41	1.33
2	C	41	CYS	CA-C	-5.44	1.45	1.52
6	O	947	LYS	C-N	5.44	1.42	1.34
4	V	83	THR	C-N	5.44	1.41	1.33
2	C	177	VAL	CA-C	-5.44	1.44	1.52
2	C	761	SER	N-CA	-5.44	1.39	1.46
3	L	459	ARG	CA-C	-5.44	1.46	1.52
3	D	200	PRO	CA-C	-5.44	1.44	1.52
4	M	83	THR	C-N	5.44	1.41	1.33
4	M	193	GLN	N-CA	-5.44	1.39	1.46
4	V	193	GLN	N-CA	-5.44	1.39	1.46
4	E	83	THR	C-N	5.43	1.41	1.33
2	K	514	CYS	CA-C	-5.43	1.46	1.52
3	L	567	ILE	N-CA	-5.43	1.42	1.46
5	N	127	GLU	C-N	5.43	1.40	1.33
4	E	649	ARG	CA-C	-5.43	1.46	1.52
4	E	810	MET	CA-C	-5.43	1.45	1.52
3	D	470	TRP	CA-C	-5.43	1.46	1.52
3	D	567	ILE	N-CA	-5.43	1.42	1.46
6	G	277	ALA	N-CA	-5.43	1.39	1.46
2	K	35	LEU	CA-C	-5.43	1.46	1.52
3	L	4	ARG	N-CA	-5.43	1.39	1.46
5	N	65	LEU	CA-C	5.43	1.59	1.52
3	D	83	VAL	CA-C	-5.42	1.46	1.52
3	D	375	TYR	CA-C	-5.42	1.46	1.52
3	D	576	GLY	N-CA	5.42	1.53	1.45
4	M	546	TYR	N-CA	-5.42	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	856	ARG	CA-C	5.42	1.59	1.52
2	C	318	LYS	N-CA	-5.42	1.39	1.46
3	D	329	ALA	CA-C	-5.42	1.45	1.52
4	E	801	VAL	C-N	5.42	1.41	1.33
4	V	277	LEU	N-CA	-5.42	1.41	1.46
4	E	148	ILE	C-N	5.42	1.40	1.34
2	C	164	ILE	CA-C	-5.42	1.47	1.52
2	C	604	ILE	C-N	5.42	1.40	1.33
6	G	41	ALA	CA-C	-5.42	1.46	1.52
2	K	480	LYS	C-N	5.42	1.40	1.33
6	O	423	PHE	C-N	5.42	1.40	1.33
5	F	127	GLU	C-N	5.41	1.40	1.33
2	K	465	LEU	CA-C	-5.41	1.45	1.52
5	W	65	LEU	CA-C	5.41	1.59	1.52
3	D	605	MET	N-CA	-5.41	1.39	1.46
2	K	209	ASN	N-CA	-5.41	1.39	1.46
3	D	97	ALA	N-CA	-5.41	1.39	1.46
2	K	416	LEU	CA-C	-5.41	1.46	1.52
4	M	276	ASN	CA-C	5.41	1.59	1.52
3	D	459	ARG	CA-C	-5.40	1.46	1.52
5	F	111	LYS	N-CA	-5.40	1.39	1.46
2	K	245	CYS	N-CA	-5.40	1.39	1.46
4	M	78	GLN	N-CA	-5.40	1.39	1.46
6	O	97	GLU	N-CA	-5.40	1.39	1.46
2	C	209	ASN	N-CA	-5.40	1.39	1.46
2	C	465	LEU	CA-C	-5.40	1.45	1.52
4	V	276	ASN	CA-C	5.40	1.59	1.52
3	L	470	TRP	CA-C	-5.40	1.46	1.52
5	W	142	VAL	CA-C	-5.40	1.46	1.52
4	E	276	ASN	CA-C	5.39	1.59	1.52
2	K	41	CYS	CA-C	-5.39	1.45	1.52
2	K	177	VAL	CA-C	-5.39	1.44	1.52
6	O	842	MET	C-N	5.39	1.41	1.33
4	V	78	GLN	N-CA	-5.39	1.39	1.46
6	G	56	PRO	C-N	5.39	1.41	1.33
4	M	148	ILE	C-N	5.39	1.40	1.34
4	V	750	GLU	CA-C	-5.39	1.46	1.52
5	W	127	GLU	C-N	5.39	1.40	1.33
3	D	307	SER	CA-C	-5.39	1.45	1.52
4	E	416	ALA	CA-C	-5.39	1.45	1.52
5	F	65	LEU	CA-C	5.39	1.59	1.52
6	G	949	GLN	CA-C	-5.39	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	576	GLY	N-CA	5.39	1.53	1.45
6	O	504	GLU	CA-C	-5.39	1.45	1.52
3	D	120	ASP	C-N	5.39	1.41	1.33
3	L	97	ALA	N-CA	-5.39	1.39	1.46
4	E	78	GLN	N-CA	-5.38	1.39	1.46
3	D	42	TRP	CA-C	-5.38	1.45	1.52
7	H	57	VAL	CA-C	-5.38	1.46	1.52
2	K	367	ASN	N-CA	-5.38	1.39	1.45
3	D	302	GLU	CA-C	-5.38	1.45	1.52
4	M	271	ALA	CA-C	5.38	1.59	1.52
4	E	177	TRP	CA-C	-5.38	1.45	1.52
6	G	83	GLU	CA-C	-5.38	1.45	1.52
7	H	83	LEU	CA-C	-5.38	1.45	1.52
5	N	142	VAL	CA-C	-5.38	1.46	1.52
4	E	193	GLN	N-CA	-5.38	1.39	1.46
6	G	856	ARG	CA-C	5.38	1.59	1.52
2	K	634	TYR	N-CA	-5.38	1.40	1.46
3	L	302	GLU	CA-C	-5.38	1.45	1.52
4	V	764	ILE	CA-C	-5.38	1.46	1.52
3	L	605	MET	N-CA	-5.38	1.39	1.46
4	E	831	ALA	N-CA	-5.37	1.39	1.45
6	O	83	GLU	CA-C	-5.37	1.45	1.52
3	D	4	ARG	N-CA	-5.37	1.39	1.46
4	E	750	GLU	CA-C	-5.37	1.46	1.52
6	O	243	ALA	C-N	5.37	1.41	1.33
3	D	801	LEU	CA-C	-5.37	1.45	1.53
4	V	177	TRP	CA-C	-5.37	1.45	1.52
2	C	416	LEU	CA-C	-5.37	1.46	1.52
4	E	375	PHE	CA-C	-5.37	1.45	1.52
6	G	149	SER	C-N	5.37	1.41	1.33
2	K	604	ILE	C-N	5.37	1.40	1.33
4	M	416	ALA	CA-C	-5.37	1.45	1.52
4	V	831	ALA	N-CA	-5.37	1.39	1.45
2	C	367	ASN	N-CA	-5.36	1.39	1.45
4	E	271	ALA	CA-C	5.36	1.59	1.52
6	G	243	ALA	C-N	5.36	1.41	1.33
3	L	307	SER	CA-C	-5.36	1.45	1.52
3	L	375	TYR	CA-C	-5.36	1.46	1.52
3	L	329	ALA	CA-C	-5.36	1.45	1.52
3	D	684	SER	C-N	5.36	1.41	1.33
6	G	380	ARG	C-N	5.36	1.40	1.33
4	V	615	GLU	C-N	5.36	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	634	TYR	N-CA	-5.36	1.40	1.46
6	G	886	LYS	N-CA	-5.36	1.39	1.46
7	P	83	LEU	CA-C	-5.36	1.45	1.52
4	M	177	TRP	CA-C	-5.36	1.45	1.52
6	O	886	LYS	N-CA	-5.36	1.39	1.46
6	O	949	GLN	CA-C	-5.35	1.46	1.53
4	V	375	PHE	CA-C	-5.35	1.45	1.52
3	L	801	LEU	CA-C	-5.35	1.45	1.53
2	C	245	CYS	N-CA	-5.35	1.39	1.46
6	G	842	MET	C-N	5.35	1.41	1.33
3	L	279	SER	C-N	5.35	1.40	1.33
7	P	94	CYS	CA-C	-5.35	1.45	1.52
6	O	764	THR	N-CA	-5.34	1.39	1.45
6	G	764	THR	N-CA	-5.34	1.39	1.45
6	O	831	CYS	CA-C	5.34	1.59	1.52
4	V	148	ILE	C-N	5.34	1.40	1.34
4	E	764	ILE	CA-C	-5.34	1.46	1.52
6	G	183	ASN	N-CA	5.34	1.52	1.46
6	G	902	TYR	N-CA	-5.34	1.39	1.46
6	O	183	ASN	N-CA	5.34	1.52	1.46
6	O	902	TYR	N-CA	-5.34	1.39	1.46
3	D	193	TYR	CA-C	-5.34	1.46	1.52
2	C	379	LEU	C-O	-5.33	1.17	1.24
2	K	680	VAL	C-N	5.33	1.40	1.33
6	O	380	ARG	C-N	5.33	1.40	1.33
4	V	416	ALA	CA-C	-5.33	1.45	1.52
6	G	368	ASN	CA-C	-5.33	1.46	1.53
6	G	504	GLU	CA-C	-5.33	1.45	1.52
3	L	42	TRP	CA-C	-5.33	1.46	1.52
3	L	773	TRP	N-CA	-5.33	1.39	1.46
3	D	773	TRP	N-CA	-5.33	1.39	1.46
2	K	761	SER	N-CA	-5.33	1.40	1.46
3	D	279	SER	C-N	5.33	1.40	1.33
3	L	46	THR	N-CA	5.33	1.53	1.46
6	G	887	SER	C-N	5.32	1.39	1.33
4	M	375	PHE	CA-C	-5.32	1.45	1.52
3	L	504	GLY	N-CA	5.32	1.53	1.45
6	O	56	PRO	C-N	5.32	1.41	1.33
7	P	22	VAL	N-CA	-5.32	1.40	1.46
2	C	170	LYS	CA-C	-5.32	1.46	1.52
6	G	565	ALA	CA-C	-5.32	1.46	1.52
7	H	22	VAL	N-CA	-5.32	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	368	ASN	CA-C	-5.32	1.46	1.53
4	V	168	LYS	CA-C	-5.32	1.46	1.52
3	L	778	SER	C-N	5.31	1.40	1.33
4	M	327	LEU	C-O	-5.31	1.18	1.24
6	O	590	ALA	N-CA	-5.31	1.39	1.46
6	G	32	LYS	CA-C	-5.31	1.45	1.52
2	K	206	ARG	CA-C	5.31	1.59	1.53
3	L	421	LYS	C-N	-5.31	1.26	1.33
3	L	684	SER	C-N	5.31	1.41	1.33
3	D	449	PHE	CA-C	-5.31	1.46	1.52
7	H	94	CYS	CA-C	-5.30	1.45	1.52
5	F	142	VAL	CA-C	-5.30	1.46	1.52
3	D	778	SER	C-N	5.29	1.40	1.33
2	C	680	VAL	C-N	5.29	1.40	1.33
3	D	155	ASN	CA-C	5.29	1.60	1.52
6	G	590	ALA	N-CA	-5.29	1.39	1.46
7	H	15	ALA	CA-C	-5.29	1.46	1.52
2	K	262	GLU	C-N	-5.29	1.27	1.33
2	K	419	VAL	C-O	-5.29	1.18	1.23
3	L	193	TYR	CA-C	-5.29	1.46	1.52
2	C	337	LYS	C-N	5.29	1.40	1.33
7	P	57	VAL	CA-C	-5.29	1.46	1.52
2	C	206	ARG	CA-C	5.28	1.59	1.53
3	D	46	THR	N-CA	5.28	1.52	1.46
2	K	379	LEU	C-O	-5.28	1.18	1.24
6	O	753	ASP	CA-C	-5.28	1.46	1.52
4	V	327	LEU	C-O	-5.28	1.18	1.24
4	E	456	LEU	C-N	-5.28	1.27	1.33
3	L	472	ASP	CA-C	-5.28	1.45	1.52
4	V	643	GLU	C-N	5.28	1.41	1.33
3	D	472	ASP	CA-C	-5.28	1.45	1.52
2	K	59	PHE	CA-C	-5.28	1.46	1.52
3	L	449	PHE	CA-C	-5.28	1.46	1.52
6	O	68	PRO	CA-C	-5.28	1.45	1.52
7	P	15	ALA	CA-C	-5.28	1.46	1.52
4	V	441	GLU	N-CA	5.28	1.53	1.46
3	D	311	ASN	N-CA	5.28	1.52	1.46
4	E	568	GLU	CA-C	5.28	1.58	1.52
4	E	643	GLU	C-N	5.28	1.41	1.33
6	O	565	ALA	CA-C	-5.28	1.46	1.52
4	V	456	LEU	C-N	-5.28	1.27	1.33
6	G	831	CYS	CA-C	5.27	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	646	TYR	C-N	5.27	1.40	1.33
6	O	32	LYS	CA-C	-5.27	1.45	1.52
5	F	79	VAL	N-CA	-5.27	1.40	1.46
6	G	939	THR	CA-C	-5.27	1.45	1.52
6	O	934	PRO	CA-C	-5.27	1.47	1.52
2	C	262	GLU	C-N	-5.27	1.27	1.33
3	D	383	LEU	CA-C	-5.27	1.46	1.53
3	L	155	ASN	CA-C	5.27	1.60	1.52
3	D	504	GLY	N-CA	5.27	1.53	1.45
6	O	939	THR	CA-C	-5.27	1.45	1.52
3	D	421	LYS	C-N	-5.26	1.26	1.33
3	L	311	ASN	N-CA	5.26	1.52	1.46
6	G	393	ARG	N-CA	-5.26	1.40	1.46
4	M	47	ILE	CA-C	5.26	1.59	1.52
4	M	441	GLU	N-CA	5.26	1.52	1.46
5	W	79	VAL	N-CA	-5.26	1.40	1.46
2	C	419	VAL	C-O	-5.26	1.18	1.23
3	L	458	ILE	CA-C	-5.26	1.46	1.52
2	K	580	CYS	C-N	5.25	1.40	1.33
4	V	421	ILE	CA-C	-5.25	1.46	1.52
2	C	59	PHE	CA-C	-5.25	1.46	1.52
4	E	327	LEU	C-O	-5.25	1.18	1.24
4	M	456	LEU	C-N	-5.25	1.27	1.33
6	O	862	PHE	C-N	5.25	1.40	1.33
4	V	638	ALA	C-N	5.25	1.41	1.33
4	E	441	GLU	N-CA	5.25	1.52	1.46
6	O	887	SER	C-N	5.25	1.39	1.33
6	O	141	ARG	N-CA	-5.25	1.39	1.46
4	V	790	THR	CA-C	-5.25	1.46	1.52
2	C	589	VAL	N-CA	-5.24	1.40	1.46
2	K	278	MET	C-N	5.24	1.41	1.33
2	K	54	VAL	N-CA	-5.24	1.39	1.46
6	G	535	LYS	C-O	-5.24	1.17	1.23
4	V	213	LYS	CA-C	-5.24	1.46	1.52
6	G	141	ARG	N-CA	-5.24	1.39	1.46
3	L	556	HIS	C-N	5.24	1.40	1.33
4	E	496	ALA	N-CA	-5.23	1.40	1.46
4	M	168	LYS	CA-C	-5.23	1.46	1.52
4	M	421	ILE	CA-C	-5.23	1.46	1.52
2	C	278	MET	C-N	5.23	1.41	1.33
4	E	698	LEU	C-O	-5.23	1.18	1.24
7	H	68	LEU	CA-C	-5.23	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	47	ILE	CA-C	5.23	1.59	1.52
2	C	16	SER	C-N	5.23	1.40	1.33
4	E	213	LYS	CA-C	-5.23	1.46	1.52
6	G	497	ALA	CA-C	-5.23	1.46	1.52
2	K	337	LYS	C-N	5.23	1.40	1.33
5	W	55	THR	CA-C	-5.23	1.45	1.52
4	E	168	LYS	CA-C	-5.23	1.46	1.52
6	G	934	PRO	CA-C	-5.23	1.47	1.52
4	E	421	ILE	CA-C	-5.22	1.46	1.52
3	D	458	ILE	CA-C	-5.22	1.46	1.52
3	D	556	HIS	C-N	5.22	1.40	1.33
4	E	638	ALA	C-N	5.22	1.41	1.33
3	L	383	LEU	CA-C	-5.22	1.46	1.53
4	V	453	THR	C-N	5.22	1.40	1.33
2	C	54	VAL	N-CA	-5.22	1.39	1.46
4	M	213	LYS	CA-C	-5.22	1.46	1.52
5	F	55	THR	CA-C	-5.22	1.45	1.52
6	G	753	ASP	CA-C	-5.21	1.46	1.52
6	G	862	PHE	C-N	5.21	1.40	1.33
4	V	646	TYR	C-N	5.21	1.39	1.33
3	L	649	LEU	N-CA	5.21	1.52	1.46
4	V	698	LEU	C-O	-5.21	1.18	1.24
6	O	537	GLU	C-O	-5.21	1.17	1.24
2	C	385	ASN	C-N	5.21	1.41	1.33
4	E	790	THR	CA-C	-5.21	1.46	1.52
2	K	170	LYS	CA-C	-5.21	1.46	1.52
3	L	442	ARG	CA-C	-5.21	1.46	1.52
5	N	79	VAL	N-CA	-5.21	1.40	1.46
6	O	465	TYR	N-CA	-5.21	1.38	1.46
2	K	333	LEU	N-CA	-5.21	1.39	1.46
4	E	858	ALA	CA-C	-5.21	1.46	1.52
6	G	99	ILE	C-O	-5.21	1.17	1.24
6	G	465	TYR	N-CA	-5.21	1.38	1.46
4	E	734	ASP	N-CA	-5.20	1.39	1.45
6	G	68	PRO	CA-C	-5.20	1.45	1.52
2	K	397	PRO	C-N	5.20	1.40	1.33
6	G	537	GLU	C-O	-5.20	1.17	1.24
4	M	453	THR	C-N	5.20	1.40	1.33
6	O	489	VAL	C-N	5.20	1.40	1.33
4	V	568	GLU	CA-C	5.20	1.58	1.52
2	C	114	ASP	N-CA	-5.20	1.40	1.46
4	E	453	THR	C-N	5.20	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	615	GLU	C-N	5.20	1.40	1.33
4	E	657	ASP	N-CA	-5.20	1.39	1.46
5	N	55	THR	CA-C	-5.20	1.45	1.52
6	O	393	ARG	N-CA	-5.20	1.40	1.46
2	C	333	LEU	N-CA	-5.20	1.39	1.46
6	O	497	ALA	CA-C	-5.19	1.46	1.52
7	P	68	LEU	CA-C	-5.19	1.46	1.52
3	D	306	MET	C-N	5.19	1.40	1.33
2	K	589	VAL	N-CA	-5.18	1.40	1.46
4	V	734	ASP	N-CA	-5.18	1.39	1.45
4	V	785	LYS	C-N	5.18	1.41	1.33
6	G	179	ASP	C-O	-5.18	1.17	1.23
6	O	316	ARG	C-N	5.18	1.40	1.33
4	M	568	GLU	CA-C	5.18	1.58	1.52
2	C	331	ASN	C-N	5.17	1.40	1.33
2	C	765	HIS	C-O	-5.17	1.17	1.24
2	K	16	SER	C-N	5.17	1.40	1.33
6	O	758	VAL	N-CA	-5.17	1.40	1.46
6	O	535	LYS	C-O	-5.17	1.17	1.23
2	C	580	CYS	C-N	5.17	1.40	1.33
3	D	756	PHE	CA-C	-5.17	1.46	1.52
6	G	489	VAL	C-N	5.17	1.40	1.33
4	V	705	THR	CA-C	-5.17	1.46	1.52
6	O	179	ASP	C-O	-5.17	1.17	1.23
6	G	758	VAL	N-CA	-5.16	1.40	1.46
2	K	186	GLY	N-CA	-5.16	1.37	1.45
4	V	496	ALA	N-CA	-5.16	1.40	1.46
3	D	528	LEU	C-N	5.16	1.40	1.33
4	E	47	ILE	CA-C	5.16	1.59	1.52
2	K	301	PRO	C-O	-5.16	1.17	1.24
3	L	756	PHE	CA-C	-5.16	1.46	1.52
6	G	567	ARG	CA-C	-5.16	1.46	1.52
4	V	525	ARG	N-CA	-5.16	1.40	1.46
4	V	657	ASP	N-CA	-5.16	1.39	1.46
3	L	373	GLY	N-CA	-5.15	1.37	1.45
2	C	397	PRO	C-N	5.15	1.40	1.33
3	D	211	VAL	C-N	5.15	1.41	1.33
4	E	436	LEU	CA-C	-5.15	1.46	1.52
2	K	250	ASN	CA-C	-5.15	1.46	1.52
6	O	567	ARG	CA-C	-5.15	1.46	1.52
4	V	436	LEU	CA-C	-5.15	1.46	1.52
3	D	442	ARG	CA-C	-5.15	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	46	HIS	C-O	-5.15	1.18	1.24
4	M	92	ILE	CA-C	-5.15	1.46	1.52
5	F	107	LYS	C-N	5.15	1.40	1.33
2	K	331	ASN	C-N	5.15	1.40	1.33
5	N	130	ASP	C-N	5.15	1.39	1.33
4	V	452	ALA	CA-C	-5.15	1.46	1.52
4	V	665	CYS	CA-C	-5.15	1.46	1.52
4	V	92	ILE	CA-C	-5.15	1.46	1.52
4	M	292	LEU	C-N	5.14	1.40	1.33
4	E	525	ARG	N-CA	-5.14	1.40	1.46
6	O	845	ILE	CA-C	-5.14	1.46	1.52
6	O	912	ALA	N-CA	-5.14	1.40	1.46
2	C	250	ASN	CA-C	-5.14	1.46	1.52
3	L	696	TYR	N-CA	-5.14	1.40	1.46
4	M	436	LEU	CA-C	-5.14	1.46	1.52
2	K	385	ASN	C-N	5.14	1.40	1.33
6	G	316	ARG	C-N	5.14	1.40	1.33
2	C	755	LYS	N-CA	-5.13	1.40	1.46
4	E	823	LYS	CA-C	-5.13	1.46	1.52
3	L	528	LEU	C-N	5.13	1.40	1.33
6	G	746	TYR	C-N	5.13	1.40	1.33
3	L	269	TYR	C-N	5.13	1.40	1.33
6	O	251	ASN	N-CA	-5.13	1.40	1.46
4	E	92	ILE	CA-C	-5.13	1.46	1.52
4	E	665	CYS	CA-C	-5.13	1.46	1.52
6	O	99	ILE	C-O	-5.13	1.18	1.24
4	V	292	LEU	C-N	5.13	1.40	1.33
2	C	301	PRO	C-O	-5.13	1.17	1.24
3	D	696	TYR	N-CA	-5.13	1.40	1.46
6	G	845	ILE	CA-C	-5.13	1.46	1.52
2	K	755	LYS	N-CA	-5.13	1.40	1.46
4	M	525	ARG	N-CA	-5.13	1.40	1.46
4	V	46	HIS	C-O	-5.13	1.18	1.24
2	C	787	ASP	C-N	5.13	1.40	1.33
3	D	649	LEU	N-CA	5.13	1.52	1.46
2	K	114	ASP	N-CA	-5.12	1.40	1.46
3	L	325	ALA	CA-C	-5.12	1.46	1.52
4	V	858	ALA	CA-C	-5.12	1.46	1.52
4	E	850	ASP	CA-C	-5.12	1.44	1.52
3	D	314	ILE	CA-C	-5.12	1.46	1.52
3	L	556	HIS	CA-C	-5.12	1.46	1.52
6	O	303	ASP	C-O	-5.12	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	705	THR	CA-C	-5.12	1.46	1.52
3	L	306	MET	C-N	5.12	1.40	1.33
4	M	560	LYS	C-N	5.12	1.40	1.33
4	V	712	LEU	C-N	5.12	1.39	1.33
4	E	452	ALA	CA-C	-5.12	1.46	1.52
3	L	35	TYR	N-CA	-5.12	1.39	1.46
3	L	314	ILE	CA-C	-5.12	1.46	1.52
6	G	271	LEU	C-N	5.11	1.39	1.33
3	L	42	TRP	N-CA	-5.11	1.39	1.46
4	M	452	ALA	CA-C	-5.11	1.46	1.52
4	M	496	ALA	N-CA	-5.11	1.40	1.46
2	C	144	HIS	C-N	-5.11	1.27	1.33
4	E	46	HIS	C-O	-5.11	1.18	1.24
4	V	560	LYS	C-N	5.11	1.40	1.33
3	D	556	HIS	CA-C	-5.11	1.46	1.52
2	K	765	HIS	C-O	-5.11	1.17	1.24
4	M	465	LYS	N-CA	-5.11	1.38	1.45
3	D	42	TRP	N-CA	-5.11	1.39	1.46
3	D	512	ASP	CA-C	5.11	1.58	1.52
2	K	529	ARG	C-N	5.11	1.44	1.33
6	O	477	THR	CA-C	-5.11	1.45	1.52
5	W	107	LYS	C-N	5.11	1.40	1.33
3	D	373	GLY	N-CA	-5.10	1.37	1.45
3	D	648	ALA	C-N	5.10	1.40	1.33
6	G	251	ASN	N-CA	-5.10	1.40	1.46
3	L	498	ALA	CA-C	-5.10	1.46	1.52
4	E	785	LYS	C-N	5.10	1.40	1.33
3	D	325	ALA	CA-C	-5.10	1.46	1.52
4	E	725	SER	CA-C	-5.10	1.46	1.52
4	E	862	GLU	CA-C	-5.10	1.46	1.52
5	N	132	GLY	N-CA	-5.10	1.38	1.45
2	C	186	GLY	N-CA	-5.10	1.38	1.45
2	C	529	ARG	C-N	5.10	1.44	1.33
4	E	292	LEU	C-N	5.10	1.40	1.33
4	E	515	ARG	CA-C	-5.10	1.46	1.52
4	V	465	LYS	N-CA	-5.10	1.38	1.45
6	G	912	ALA	N-CA	-5.10	1.40	1.46
4	M	451	LEU	N-CA	-5.10	1.40	1.46
6	G	925	SER	C-O	-5.09	1.17	1.24
2	K	494	VAL	C-N	5.09	1.40	1.33
2	K	633	GLY	C-N	5.09	1.41	1.34
2	K	787	ASP	C-N	5.09	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	648	ALA	C-N	5.09	1.40	1.33
4	V	850	ASP	CA-C	-5.09	1.45	1.52
6	O	341	LEU	C-N	5.09	1.40	1.33
4	V	862	GLU	CA-C	-5.09	1.46	1.52
4	E	712	LEU	C-N	5.09	1.39	1.33
2	K	144	HIS	C-N	-5.09	1.27	1.33
6	O	925	SER	C-O	-5.09	1.17	1.24
3	D	787	SER	CA-C	-5.08	1.46	1.52
4	E	103	ILE	C-N	5.08	1.40	1.34
5	N	107	LYS	C-N	5.08	1.40	1.33
2	C	28	LEU	C-N	5.08	1.41	1.33
2	C	494	VAL	C-N	5.08	1.40	1.33
3	L	787	SER	CA-C	-5.08	1.46	1.52
6	O	746	TYR	C-N	5.08	1.40	1.33
3	L	739	ASP	C-N	5.08	1.40	1.33
6	G	477	THR	CA-C	-5.08	1.45	1.52
4	M	57	GLN	C-N	5.08	1.41	1.33
6	O	116	ILE	N-CA	-5.08	1.40	1.46
4	E	560	LYS	C-N	5.07	1.40	1.33
5	F	130	ASP	C-N	5.07	1.39	1.33
6	G	303	ASP	C-O	-5.07	1.19	1.24
4	V	103	ILE	C-N	5.07	1.40	1.34
2	C	317	PHE	N-CA	-5.07	1.39	1.45
2	C	572	ARG	N-CA	5.07	1.52	1.46
4	V	823	LYS	CA-C	-5.07	1.46	1.52
3	D	35	TYR	N-CA	-5.07	1.39	1.46
3	D	269	TYR	C-N	5.07	1.40	1.33
6	G	490	GLU	CA-C	-5.07	1.46	1.52
3	L	211	VAL	C-N	5.07	1.40	1.33
2	C	633	GLY	C-N	5.07	1.41	1.34
3	D	729	PHE	C-N	5.07	1.40	1.33
6	G	341	LEU	C-N	5.07	1.40	1.33
3	L	729	PHE	C-N	5.07	1.40	1.33
4	V	515	ARG	CA-C	-5.07	1.46	1.52
5	W	132	GLY	N-CA	-5.07	1.38	1.45
4	V	725	SER	CA-C	-5.06	1.46	1.52
6	G	116	ILE	N-CA	-5.06	1.40	1.46
3	L	479	ILE	CA-C	-5.06	1.46	1.52
3	D	479	ILE	CA-C	-5.06	1.46	1.52
6	O	145	GLU	N-CA	-5.06	1.39	1.46
2	C	369	SER	CA-C	-5.06	1.46	1.52
7	H	111	PHE	C-N	5.06	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	479	GLN	CA-C	-5.06	1.46	1.52
3	L	512	ASP	CA-C	5.06	1.58	1.52
7	P	111	PHE	C-N	5.06	1.40	1.33
2	C	673	CYS	C-O	-5.05	1.18	1.24
5	W	130	ASP	C-N	5.05	1.39	1.33
4	M	515	ARG	CA-C	-5.05	1.46	1.52
3	D	355	PRO	CA-C	-5.05	1.45	1.52
6	G	186	ASP	CA-C	-5.05	1.46	1.52
7	H	28	ARG	C-N	5.05	1.40	1.33
2	K	50	HIS	CA-C	-5.05	1.46	1.52
6	O	241	GLU	CA-C	-5.05	1.46	1.52
4	E	499	GLY	C-N	5.04	1.40	1.33
6	O	301	VAL	C-N	5.04	1.40	1.33
5	F	132	GLY	N-CA	-5.04	1.38	1.45
2	K	145	PRO	C-N	5.04	1.40	1.33
6	O	746	TYR	C-O	-5.04	1.17	1.23
5	F	145	ARG	N-CA	-5.04	1.39	1.46
3	L	308	MET	CA-C	-5.04	1.46	1.52
4	E	465	LYS	N-CA	-5.04	1.38	1.45
2	K	369	SER	CA-C	-5.04	1.46	1.52
2	K	673	CYS	C-O	-5.04	1.18	1.24
4	M	103	ILE	C-N	5.04	1.40	1.34
6	O	186	ASP	CA-C	-5.04	1.46	1.52
7	P	67	VAL	N-CA	5.04	1.52	1.46
4	V	809	GLY	C-N	5.04	1.41	1.33
6	G	301	VAL	C-N	5.03	1.40	1.33
7	H	67	VAL	N-CA	5.03	1.52	1.46
4	M	435	GLY	C-N	5.03	1.40	1.33
6	O	490	GLU	CA-C	-5.03	1.46	1.52
4	V	57	GLN	C-N	5.03	1.40	1.33
5	W	61	LEU	C-O	-5.03	1.18	1.24
2	C	366	PHE	N-CA	-5.03	1.40	1.46
6	G	101	VAL	CA-C	-5.03	1.46	1.53
2	K	572	ARG	N-CA	5.03	1.52	1.46
6	G	890	MET	CA-C	-5.03	1.46	1.52
3	L	796	ASN	CA-C	-5.03	1.46	1.52
6	O	271	LEU	C-N	5.03	1.39	1.33
3	D	308	MET	CA-C	-5.03	1.46	1.52
3	D	694	GLN	C-N	5.03	1.39	1.33
4	V	652	LYS	CA-C	-5.03	1.46	1.52
2	C	345	ASP	N-CA	-5.03	1.39	1.46
3	D	633	GLN	C-N	5.03	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	725	ASN	N-CA	-5.03	1.40	1.46
4	V	866	VAL	C-O	-5.03	1.18	1.24
3	L	18	VAL	N-CA	-5.02	1.40	1.46
3	D	18	VAL	N-CA	-5.02	1.40	1.46
6	G	241	GLU	CA-C	-5.02	1.46	1.52
6	O	101	VAL	CA-C	-5.02	1.46	1.53
2	C	50	HIS	CA-C	-5.02	1.46	1.52
4	E	451	LEU	N-CA	-5.02	1.40	1.46
2	K	758	ALA	CA-C	-5.02	1.46	1.52
6	O	532	PRO	N-CA	-5.02	1.42	1.46
4	E	837	GLY	N-CA	-5.02	1.37	1.45
3	L	115	LEU	CA-C	-5.02	1.46	1.52
6	O	260	VAL	N-CA	-5.02	1.40	1.46
3	D	55	VAL	CA-C	-5.02	1.46	1.52
3	D	115	LEU	CA-C	-5.02	1.46	1.52
4	E	809	GLY	C-N	5.02	1.41	1.33
3	L	565	GLY	CA-C	-5.02	1.46	1.51
2	C	145	PRO	C-N	5.02	1.40	1.33
3	D	498	ALA	CA-C	-5.02	1.46	1.52
5	F	61	LEU	C-O	-5.01	1.18	1.24
2	K	728	ASP	CA-C	-5.01	1.46	1.52
4	M	499	GLY	C-N	5.01	1.40	1.33
3	L	355	PRO	CA-C	-5.01	1.45	1.52
3	D	718	GLY	CA-C	-5.01	1.46	1.52
4	E	866	VAL	C-O	-5.01	1.18	1.24
2	K	28	LEU	C-N	5.01	1.41	1.33
4	V	435	GLY	C-N	5.01	1.40	1.33
4	V	451	LEU	N-CA	-5.01	1.40	1.46
4	E	57	GLN	C-N	5.01	1.40	1.33
4	E	435	GLY	C-N	5.01	1.40	1.33
6	G	149	SER	C-O	-5.01	1.17	1.24
3	L	55	VAL	CA-C	-5.01	1.46	1.52
3	L	781	ASN	C-O	-5.01	1.17	1.24
7	P	28	ARG	C-N	5.00	1.40	1.33
2	C	702	LYS	N-CA	5.00	1.52	1.46
3	D	739	ASP	C-N	5.00	1.40	1.33
4	V	499	GLY	C-N	5.00	1.40	1.33
3	D	796	ASN	CA-C	-5.00	1.46	1.52
4	E	405	LEU	C-N	5.00	1.40	1.33
2	K	317	PHE	N-CA	-5.00	1.39	1.45
2	K	345	ASP	N-CA	-5.00	1.39	1.46
2	K	349	SER	CA-C	-5.00	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	890	MET	CA-C	-5.00	1.46	1.52
4	V	489	ALA	N-CA	5.00	1.52	1.46

All (3697) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	496	GLU	N-CA-C	19.06	132.14	111.36
6	G	496	GLU	N-CA-C	19.05	132.12	111.36
7	P	90	ILE	CA-C-O	-14.60	108.91	118.69
7	H	90	ILE	CA-C-O	-14.59	108.92	118.69
4	M	302	ALA	CA-C-N	13.22	139.32	120.28
4	M	302	ALA	C-N-CA	13.22	139.32	120.28
4	V	302	ALA	CA-C-N	13.21	139.31	120.28
4	V	302	ALA	C-N-CA	13.21	139.31	120.28
4	E	302	ALA	CA-C-N	13.20	139.29	120.28
4	E	302	ALA	C-N-CA	13.20	139.29	120.28
6	O	472	ILE	N-CA-C	13.06	123.95	110.62
6	G	472	ILE	N-CA-C	12.96	123.84	110.62
4	M	450	VAL	N-CA-C	12.93	123.81	110.62
4	E	450	VAL	N-CA-C	12.92	123.80	110.62
4	V	450	VAL	N-CA-C	12.91	123.79	110.62
4	M	206	ASN	N-CA-C	-12.77	98.67	114.75
4	V	206	ASN	N-CA-C	-12.73	98.71	114.75
4	E	206	ASN	N-CA-C	-12.73	98.71	114.75
6	G	64	ARG	N-CA-C	12.64	125.06	111.28
6	O	64	ARG	N-CA-C	12.64	125.05	111.28
3	L	431	GLU	N-CA-C	-12.58	100.28	114.62
3	D	431	GLU	N-CA-C	-12.57	100.28	114.62
7	P	132	THR	N-CA-C	-11.91	98.30	111.28
7	H	132	THR	N-CA-C	-11.89	98.32	111.28
2	C	732	HIS	CA-C-N	11.68	135.93	120.28
2	C	732	HIS	C-N-CA	11.68	135.93	120.28
2	K	732	HIS	CA-C-N	11.67	135.92	120.28
2	K	732	HIS	C-N-CA	11.67	135.92	120.28
4	V	203	VAL	N-CA-C	11.46	121.31	110.53
4	E	203	VAL	N-CA-C	11.45	121.30	110.53
4	M	203	VAL	N-CA-C	11.45	121.29	110.53
2	K	164	ILE	N-CA-C	-11.35	102.71	111.90
6	O	486	ILE	O-C-N	-11.31	108.20	121.10
6	G	486	ILE	O-C-N	-11.30	108.21	121.10
2	C	164	ILE	N-CA-C	-11.26	102.78	111.90
3	D	642	GLU	CA-C-O	-10.99	108.77	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	642	GLU	CA-C-O	-10.97	108.79	120.42
5	F	26	LEU	N-CA-C	-10.91	99.36	111.14
5	W	26	LEU	N-CA-C	-10.90	99.36	111.14
5	N	26	LEU	N-CA-C	-10.88	99.39	111.14
2	K	54	VAL	N-CA-C	-10.55	92.34	107.75
2	C	54	VAL	N-CA-C	-10.55	92.35	107.75
4	E	766	LYS	CA-C-N	10.39	133.75	122.11
4	E	766	LYS	C-N-CA	10.39	133.75	122.11
4	V	766	LYS	CA-C-N	10.35	133.70	122.11
4	V	766	LYS	C-N-CA	10.35	133.70	122.11
3	L	461	ILE	N-CA-C	-10.27	93.69	108.48
3	D	461	ILE	N-CA-C	-10.27	93.69	108.48
6	G	563	LYS	CA-C-N	10.23	133.65	120.56
6	G	563	LYS	C-N-CA	10.23	133.65	120.56
6	O	563	LYS	CA-C-N	10.23	133.65	120.56
6	O	563	LYS	C-N-CA	10.23	133.65	120.56
2	C	697	THR	N-CA-C	-10.18	100.61	113.23
6	G	869	THR	N-CA-C	-10.17	92.83	109.40
6	O	869	THR	N-CA-C	-10.15	92.85	109.40
4	E	756	LEU	N-CA-C	-10.14	92.87	109.40
2	K	697	THR	N-CA-C	-10.14	100.65	113.23
4	V	756	LEU	N-CA-C	-10.13	92.89	109.40
3	L	78	ASP	CA-C-N	10.05	137.21	122.74
3	L	78	ASP	C-N-CA	10.05	137.21	122.74
3	D	78	ASP	CA-C-N	10.04	137.19	122.74
3	D	78	ASP	C-N-CA	10.04	137.19	122.74
4	V	542	LEU	CA-C-N	10.04	133.49	120.44
4	V	542	LEU	C-N-CA	10.04	133.49	120.44
4	M	542	LEU	CA-C-N	10.01	133.46	120.44
4	M	542	LEU	C-N-CA	10.01	133.46	120.44
4	E	542	LEU	CA-C-N	10.00	133.44	120.44
4	E	542	LEU	C-N-CA	10.00	133.44	120.44
6	G	544	GLY	CA-C-N	9.91	133.33	120.44
6	G	544	GLY	C-N-CA	9.91	133.33	120.44
6	O	544	GLY	CA-C-N	9.88	133.28	120.44
6	O	544	GLY	C-N-CA	9.88	133.28	120.44
4	M	429	SER	N-CA-C	9.81	122.89	111.11
4	V	429	SER	N-CA-C	9.81	122.88	111.11
4	E	429	SER	N-CA-C	9.80	122.87	111.11
6	G	873	ASN	N-CA-C	-9.79	98.06	111.56
6	O	873	ASN	N-CA-C	-9.78	98.07	111.56
3	L	204	SER	N-CA-C	-9.76	94.10	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	204	SER	N-CA-C	-9.75	94.12	109.23
6	G	63	ILE	N-CA-C	9.68	120.50	110.62
4	E	503	GLU	CA-C-N	9.65	133.60	120.38
4	E	503	GLU	C-N-CA	9.65	133.60	120.38
4	V	503	GLU	CA-C-N	9.64	133.59	120.38
4	V	503	GLU	C-N-CA	9.64	133.59	120.38
4	M	465	LYS	N-CA-C	-9.63	98.67	113.89
4	M	503	GLU	CA-C-N	9.63	133.58	120.38
4	M	503	GLU	C-N-CA	9.63	133.58	120.38
4	E	465	LYS	N-CA-C	-9.62	98.68	113.89
4	V	254	PHE	N-CA-C	-9.62	93.72	109.40
6	O	63	ILE	N-CA-C	9.61	120.42	110.62
4	E	254	PHE	N-CA-C	-9.61	93.74	109.40
4	M	254	PHE	N-CA-C	-9.61	93.74	109.40
4	V	465	LYS	N-CA-C	-9.61	98.71	113.89
3	L	429	GLY	N-CA-C	-9.56	99.32	112.13
3	D	429	GLY	N-CA-C	-9.54	99.34	112.13
3	L	286	VAL	N-CA-C	-9.54	93.36	108.81
3	D	286	VAL	N-CA-C	-9.52	93.39	108.81
3	L	469	PHE	N-CA-C	-9.52	94.46	109.50
3	D	573	LEU	N-CA-C	-9.50	94.29	109.59
3	D	469	PHE	N-CA-C	-9.48	94.52	109.50
4	E	356	SER	CA-C-N	9.48	133.44	120.46
4	E	356	SER	C-N-CA	9.48	133.44	120.46
4	V	356	SER	CA-C-N	9.47	133.44	120.46
4	V	356	SER	C-N-CA	9.47	133.44	120.46
4	M	356	SER	CA-C-N	9.47	133.43	120.46
4	M	356	SER	C-N-CA	9.47	133.43	120.46
4	V	736	ASP	CA-C-O	-9.46	108.73	119.32
6	O	106	ARG	N-CA-C	-9.45	100.52	112.90
4	E	736	ASP	CA-C-O	-9.42	108.77	119.32
6	G	106	ARG	N-CA-C	-9.42	100.56	112.90
3	L	573	LEU	N-CA-C	-9.42	94.32	109.76
3	D	490	TYR	N-CA-C	-9.41	93.08	108.41
3	L	490	TYR	N-CA-C	-9.39	93.10	108.41
2	C	395	THR	CA-C-N	9.36	126.14	120.24
2	C	395	THR	C-N-CA	9.36	126.14	120.24
7	H	417	VAL	N-CA-C	9.35	120.16	110.72
3	D	642	GLU	O-C-N	9.33	132.78	122.15
2	K	395	THR	CA-C-N	9.31	126.11	120.24
2	K	395	THR	C-N-CA	9.31	126.11	120.24
3	L	642	GLU	O-C-N	9.31	132.76	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	746	GLY	CA-C-O	-9.29	112.65	121.38
4	V	746	GLY	CA-C-O	-9.28	112.66	121.38
7	H	131	ARG	CA-C-N	9.26	132.69	120.28
7	H	131	ARG	C-N-CA	9.26	132.69	120.28
4	E	759	THR	N-CA-C	-9.26	95.65	109.81
4	V	759	THR	N-CA-C	-9.25	95.66	109.81
7	H	66	MET	N-CA-C	-9.24	94.19	109.07
2	C	407	ALA	CA-C-N	9.24	128.98	119.56
2	C	407	ALA	C-N-CA	9.24	128.98	119.56
7	P	131	ARG	CA-C-N	9.24	132.66	120.28
7	P	131	ARG	C-N-CA	9.24	132.66	120.28
7	P	66	MET	N-CA-C	-9.23	94.21	109.07
2	K	407	ALA	CA-C-N	9.19	128.93	119.56
2	K	407	ALA	C-N-CA	9.19	128.93	119.56
4	M	411	PHE	N-CA-C	-9.17	102.20	112.57
4	V	411	PHE	N-CA-C	-9.17	102.21	112.57
6	O	42	LEU	CA-C-N	9.16	132.35	120.44
6	O	42	LEU	C-N-CA	9.16	132.35	120.44
6	G	42	LEU	CA-C-N	9.15	132.34	120.44
6	G	42	LEU	C-N-CA	9.15	132.34	120.44
4	E	411	PHE	N-CA-C	-9.13	102.25	112.57
6	O	170	ILE	CA-C-N	9.11	128.85	119.56
6	O	170	ILE	C-N-CA	9.11	128.85	119.56
2	K	276	TRP	CA-C-N	9.07	133.64	120.95
2	K	276	TRP	C-N-CA	9.07	133.64	120.95
5	N	110	GLU	N-CA-C	-9.06	96.23	108.74
6	G	560	THR	CA-C-N	9.06	132.42	120.28
6	G	560	THR	C-N-CA	9.06	132.42	120.28
6	G	170	ILE	CA-C-N	9.06	128.80	119.56
6	G	170	ILE	C-N-CA	9.06	128.80	119.56
5	W	110	GLU	N-CA-C	-9.06	96.24	108.74
2	C	276	TRP	CA-C-N	9.05	133.62	120.95
2	C	276	TRP	C-N-CA	9.05	133.62	120.95
5	F	110	GLU	N-CA-C	-9.05	96.26	108.74
6	O	560	THR	CA-C-N	9.01	132.35	120.28
6	O	560	THR	C-N-CA	9.01	132.35	120.28
6	G	507	THR	N-CA-C	-9.00	104.36	114.62
6	O	507	THR	N-CA-C	-9.00	104.36	114.62
2	C	291	HIS	N-CA-C	-8.99	99.62	113.02
7	H	479	CYS	N-CA-C	-8.99	101.26	113.30
3	L	717	GLU	CA-C-N	8.98	129.95	119.98
3	L	717	GLU	C-N-CA	8.98	129.95	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	386	LEU	N-CA-C	-8.98	101.44	111.14
2	K	291	HIS	N-CA-C	-8.97	99.65	113.02
4	V	386	LEU	N-CA-C	-8.97	101.45	111.14
3	D	717	GLU	CA-C-N	8.96	129.93	119.98
3	D	717	GLU	C-N-CA	8.96	129.93	119.98
4	M	386	LEU	N-CA-C	-8.96	101.46	111.14
5	N	80	ILE	N-CA-C	-8.93	95.62	108.48
4	E	208	ARG	CA-C-N	8.92	132.04	120.44
4	E	208	ARG	C-N-CA	8.92	132.04	120.44
6	G	130	ALA	N-CA-C	-8.92	102.12	113.72
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
4	V	208	ARG	CA-C-N	8.90	132.01	120.44
4	V	208	ARG	C-N-CA	8.90	132.01	120.44
4	E	709	LEU	N-CA-C	-8.90	95.26	109.59
5	W	80	ILE	N-CA-C	-8.90	95.67	108.48
4	M	208	ARG	CA-C-N	8.88	131.98	120.44
4	M	208	ARG	C-N-CA	8.88	131.98	120.44
2	K	435	LEU	CA-C-O	8.88	129.77	120.54
2	C	423	ARG	CA-C-N	8.87	134.69	122.19
2	C	423	ARG	C-N-CA	8.87	134.69	122.19
4	V	709	LEU	N-CA-C	-8.87	95.31	109.59
1	J	108	GLN	N-CA-C	8.87	122.06	111.33
1	B	108	GLN	N-CA-C	8.85	122.04	111.33
2	K	423	ARG	CA-C-N	8.85	134.67	122.19
2	K	423	ARG	C-N-CA	8.85	134.67	122.19
2	C	435	LEU	CA-C-O	8.85	129.74	120.54
1	R	108	GLN	N-CA-C	8.84	122.03	111.33
2	C	440	LEU	N-CA-C	-8.84	104.54	114.62
3	L	423	SER	N-CA-C	-8.84	102.20	113.16
2	K	440	LEU	N-CA-C	-8.83	104.55	114.62
4	V	426	GLU	N-CA-C	-8.81	101.35	112.90
6	G	451	SER	CA-C-N	8.81	131.83	120.56
6	G	451	SER	C-N-CA	8.81	131.83	120.56
6	O	952	ALA	CA-C-N	8.80	132.08	120.28
6	O	952	ALA	C-N-CA	8.80	132.08	120.28
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
1	I	108	GLN	N-CA-C	8.80	121.97	111.33
4	M	509	ILE	N-CA-C	-8.79	101.98	110.42
4	M	426	GLU	N-CA-C	-8.79	101.39	112.90
4	E	426	GLU	N-CA-C	-8.78	101.39	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	451	SER	CA-C-N	8.78	131.80	120.56
6	O	451	SER	C-N-CA	8.78	131.80	120.56
4	V	193	GLN	N-CA-C	8.78	120.85	111.28
1	A	108	GLN	N-CA-C	8.78	121.95	111.33
4	E	193	GLN	N-CA-C	8.78	120.85	111.28
2	C	649	PHE	CA-C-N	8.77	132.03	120.28
2	C	649	PHE	C-N-CA	8.77	132.03	120.28
4	E	509	ILE	N-CA-C	-8.76	102.01	110.42
3	D	423	SER	N-CA-C	-8.76	102.30	113.16
4	M	193	GLN	N-CA-C	8.76	120.83	111.28
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
4	V	509	ILE	N-CA-C	-8.75	102.02	110.42
6	G	410	SER	CA-C-N	8.74	132.34	120.54
6	G	410	SER	C-N-CA	8.74	132.34	120.54
2	K	649	PHE	CA-C-N	8.73	131.98	120.28
2	K	649	PHE	C-N-CA	8.73	131.98	120.28
7	H	116	ILE	N-CA-C	8.69	119.50	110.72
7	P	56	TYR	N-CA-C	-8.66	94.78	109.24
6	G	549	GLY	O-C-N	8.65	130.50	122.19
7	P	116	ILE	N-CA-C	8.65	119.46	110.72
5	F	120	GLY	O-C-N	8.64	130.49	122.19
5	W	120	GLY	O-C-N	8.64	130.57	122.19
2	K	767	LEU	CA-C-N	8.63	133.43	120.31
2	K	767	LEU	C-N-CA	8.63	133.43	120.31
2	C	767	LEU	CA-C-N	8.63	133.43	120.31
2	C	767	LEU	C-N-CA	8.63	133.43	120.31
7	H	56	TYR	N-CA-C	-8.61	94.86	109.24
6	O	549	GLY	O-C-N	8.61	130.46	122.19
7	H	366	LEU	CA-C-N	-8.58	109.39	122.09
7	H	366	LEU	C-N-CA	-8.58	109.39	122.09
2	C	431	ARG	N-CA-C	-8.56	99.37	113.50
2	K	431	ARG	N-CA-C	-8.55	99.40	113.50
3	L	21	VAL	N-CA-C	-8.53	97.09	108.35
5	N	120	GLY	O-C-N	8.52	130.45	122.19
4	E	435	GLY	CA-C-N	8.51	131.69	120.28
4	E	435	GLY	C-N-CA	8.51	131.69	120.28
3	D	21	VAL	N-CA-C	-8.51	97.12	108.35
6	G	394	PHE	CA-C-N	8.51	128.12	118.85
6	G	394	PHE	C-N-CA	8.51	128.12	118.85
6	O	394	PHE	CA-C-N	8.51	128.12	118.85
6	O	394	PHE	C-N-CA	8.51	128.12	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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	G	78	LEU	CA-C-N	8.48	131.65	120.28
6	G	78	LEU	C-N-CA	8.48	131.65	120.28
6	O	78	LEU	CA-C-N	8.48	131.65	120.28
6	O	78	LEU	C-N-CA	8.48	131.65	120.28
6	O	89	THR	CA-C-O	-8.48	112.21	119.76
6	G	89	THR	CA-C-O	-8.47	112.22	119.76
4	M	435	GLY	CA-C-N	8.47	131.63	120.28
4	M	435	GLY	C-N-CA	8.47	131.63	120.28
4	V	435	GLY	CA-C-N	8.47	131.63	120.28
4	V	435	GLY	C-N-CA	8.47	131.63	120.28
6	O	860	ALA	CA-C-N	8.47	131.62	120.28
6	O	860	ALA	C-N-CA	8.47	131.62	120.28
4	E	455	ILE	O-C-N	8.46	130.08	121.87
3	D	657	ALA	CA-C-N	8.46	131.44	120.44
3	D	657	ALA	C-N-CA	8.46	131.44	120.44
5	N	69	TYR	CA-C-O	-8.46	112.20	121.33
6	G	818	ILE	N-CA-C	-8.45	95.86	108.46
6	G	860	ALA	CA-C-N	8.45	131.60	120.28
6	G	860	ALA	C-N-CA	8.45	131.60	120.28
7	H	377	THR	CA-C-N	-8.41	112.76	123.19
7	H	377	THR	C-N-CA	-8.41	112.76	123.19
5	F	69	TYR	CA-C-O	-8.41	112.25	121.33
6	O	818	ILE	N-CA-C	-8.41	95.93	108.46
4	V	455	ILE	O-C-N	8.41	130.02	121.87
6	O	79	LEU	CA-C-N	8.40	131.97	120.46
6	O	79	LEU	C-N-CA	8.40	131.97	120.46
6	O	376	THR	N-CA-C	-8.40	95.04	108.73
5	W	69	TYR	CA-C-O	-8.39	112.26	121.33
6	G	79	LEU	CA-C-N	8.39	131.96	120.46
6	G	79	LEU	C-N-CA	8.39	131.96	120.46
6	G	376	THR	N-CA-C	-8.39	95.05	108.73
4	V	621	PRO	N-CA-C	8.39	124.56	113.57
4	E	621	PRO	N-CA-C	8.38	124.55	113.57
4	M	455	ILE	O-C-N	8.38	130.00	121.87
5	N	69	TYR	O-C-N	8.38	132.80	123.25
3	D	115	LEU	N-CA-C	-8.37	96.32	109.72
3	L	115	LEU	N-CA-C	-8.37	96.32	109.72
2	C	273	ILE	N-CA-C	-8.37	96.40	108.11
2	C	611	VAL	CA-C-O	-8.36	111.44	120.47
2	K	611	VAL	CA-C-O	-8.36	111.44	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	15	LEU	N-CA-C	-8.36	95.86	108.99
5	W	69	TYR	O-C-N	8.36	132.78	123.25
2	K	273	ILE	N-CA-C	-8.36	96.41	108.11
2	K	15	LEU	N-CA-C	-8.35	95.88	108.99
5	F	69	TYR	O-C-N	8.35	132.77	123.25
6	G	165	ASN	CA-C-N	8.35	134.35	122.08
6	G	165	ASN	C-N-CA	8.35	134.35	122.08
6	O	100	LEU	CA-C-N	8.32	133.37	121.55
6	O	100	LEU	C-N-CA	8.32	133.37	121.55
6	O	165	ASN	CA-C-N	8.32	134.31	122.08
6	O	165	ASN	C-N-CA	8.32	134.31	122.08
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	239	PRO	CA-C-N	8.28	131.58	120.65
6	O	239	PRO	C-N-CA	8.28	131.58	120.65
6	G	352	ASN	CA-C-N	8.28	130.99	120.56
6	G	352	ASN	C-N-CA	8.28	130.99	120.56
6	G	100	LEU	CA-C-N	8.27	133.30	121.55
6	G	100	LEU	C-N-CA	8.27	133.30	121.55
6	G	239	PRO	CA-C-N	8.26	131.55	120.65
6	G	239	PRO	C-N-CA	8.26	131.55	120.65
2	K	704	SER	CA-C-N	8.23	131.14	120.44
2	K	704	SER	C-N-CA	8.23	131.14	120.44
2	K	645	GLU	CA-C-N	8.22	131.97	120.29
2	K	645	GLU	C-N-CA	8.22	131.97	120.29
2	K	743	SER	N-CA-C	-8.22	105.24	114.62
6	O	352	ASN	CA-C-N	8.22	130.92	120.56
6	O	352	ASN	C-N-CA	8.22	130.92	120.56
2	K	208	VAL	CA-C-N	8.22	131.96	120.29
2	K	208	VAL	C-N-CA	8.22	131.96	120.29
2	C	743	SER	N-CA-C	-8.21	105.25	114.62
2	C	618	ALA	N-CA-C	-8.21	101.30	113.61
2	C	645	GLU	CA-C-N	8.21	131.94	120.29
2	C	645	GLU	C-N-CA	8.21	131.94	120.29
2	C	704	SER	CA-C-N	8.20	131.10	120.44
2	C	704	SER	C-N-CA	8.20	131.10	120.44
7	H	49	VAL	N-CA-C	-8.20	96.70	108.42
7	H	102	ILE	O-C-N	8.20	129.82	121.87
7	P	102	ILE	O-C-N	8.20	129.82	121.87
7	P	49	VAL	N-CA-C	-8.19	96.71	108.42
2	K	618	ALA	N-CA-C	-8.19	101.33	113.61
2	C	208	VAL	CA-C-N	8.18	131.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	208	VAL	C-N-CA	8.18	131.90	120.29
4	E	455	ILE	CA-C-O	-8.16	112.46	120.95
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	8.14	134.67	123.11
7	H	19	ARG	C-N-CA	8.14	134.67	123.11
6	O	449	ILE	O-C-N	-8.14	115.38	123.19
3	L	268	ASN	N-CA-C	-8.14	97.04	109.41
6	O	304	ARG	CA-C-N	8.12	131.00	120.44
6	O	304	ARG	C-N-CA	8.12	131.00	120.44
6	G	449	ILE	O-C-N	-8.12	115.40	123.19
3	D	352	GLU	N-CA-C	-8.11	104.53	114.75
4	M	324	ALA	N-CA-C	8.11	128.07	110.80
3	L	352	GLU	N-CA-C	-8.11	104.53	114.75
3	D	268	ASN	N-CA-C	-8.11	97.09	109.41
4	V	455	ILE	CA-C-O	-8.10	112.53	120.95
6	G	304	ARG	CA-C-N	8.10	130.97	120.44
6	G	304	ARG	C-N-CA	8.10	130.97	120.44
4	V	324	ALA	N-CA-C	8.10	128.05	110.80
4	E	324	ALA	N-CA-C	8.09	128.04	110.80
4	E	847	LEU	N-CA-C	-8.09	96.22	109.40
4	M	455	ILE	CA-C-O	-8.08	112.55	120.95
6	O	775	LEU	N-CA-C	-8.07	97.11	109.95
4	V	847	LEU	N-CA-C	-8.07	96.25	109.40
4	E	543	ASN	O-C-N	8.07	130.38	122.07
7	H	269	ILE	N-CA-C	-8.07	105.28	113.10
4	V	374	GLU	CA-C-N	8.04	131.86	120.28
4	V	374	GLU	C-N-CA	8.04	131.86	120.28
4	V	543	ASN	O-C-N	8.04	130.35	122.07
6	G	792	LEU	N-CA-C	-8.04	93.68	110.80
3	L	578	LYS	CA-C-N	8.03	132.28	120.87
3	L	578	LYS	C-N-CA	8.03	132.28	120.87
6	O	792	LEU	N-CA-C	-8.04	93.69	110.80
3	D	473	SER	N-CA-C	-8.03	104.36	114.56
3	L	473	SER	N-CA-C	-8.03	104.36	114.56
6	G	424	VAL	CA-C-N	8.02	130.87	120.44
6	G	424	VAL	C-N-CA	8.02	130.87	120.44
6	O	424	VAL	CA-C-N	8.02	130.87	120.44
6	O	424	VAL	C-N-CA	8.02	130.87	120.44
6	G	775	LEU	N-CA-C	-8.02	97.20	109.95
4	M	374	GLU	CA-C-N	8.02	131.83	120.28
4	M	374	GLU	C-N-CA	8.02	131.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	578	LYS	CA-C-N	8.00	132.22	120.87
3	D	578	LYS	C-N-CA	8.00	132.22	120.87
4	E	374	GLU	CA-C-N	8.00	131.80	120.28
4	E	374	GLU	C-N-CA	8.00	131.80	120.28
4	E	535	LEU	CA-C-N	7.99	131.50	120.63
4	E	535	LEU	C-N-CA	7.99	131.50	120.63
2	C	526	GLU	CA-C-N	7.99	130.82	120.44
2	C	526	GLU	C-N-CA	7.99	130.82	120.44
4	M	543	ASN	O-C-N	7.98	130.29	122.07
2	K	526	GLU	CA-C-N	7.96	130.79	120.44
2	K	526	GLU	C-N-CA	7.96	130.79	120.44
6	O	71	ASP	N-CA-C	-7.96	97.69	109.15
4	M	535	LEU	CA-C-N	7.96	131.45	120.63
4	M	535	LEU	C-N-CA	7.96	131.45	120.63
4	E	720	VAL	N-CA-C	-7.95	104.96	112.83
4	V	720	VAL	N-CA-C	-7.94	104.97	112.83
4	V	535	LEU	CA-C-N	7.94	131.43	120.63
4	V	535	LEU	C-N-CA	7.94	131.43	120.63
3	D	441	VAL	N-CA-C	-7.94	96.70	108.45
6	G	71	ASP	N-CA-C	-7.94	97.72	109.15
6	O	338	LYS	O-C-N	7.93	130.66	122.09
6	G	338	LYS	O-C-N	7.93	130.66	122.09
2	K	447	LYS	CA-C-N	7.93	131.76	120.98
2	K	447	LYS	C-N-CA	7.93	131.76	120.98
2	K	723	ALA	N-CA-C	-7.93	104.49	114.56
3	L	441	VAL	N-CA-C	-7.92	96.73	108.45
2	C	723	ALA	N-CA-C	-7.91	104.51	114.56
2	C	447	LYS	CA-C-N	7.89	131.71	120.98
2	C	447	LYS	C-N-CA	7.89	131.71	120.98
3	D	556	HIS	CA-C-O	7.89	129.08	120.71
6	G	540	PRO	O-C-N	-7.89	112.15	121.46
6	O	540	PRO	O-C-N	-7.89	112.15	121.46
5	N	25	ARG	CA-C-O	7.88	129.12	120.92
6	O	66	VAL	CA-C-O	-7.88	112.27	120.71
6	O	441	LYS	CA-C-N	7.87	131.62	120.28
6	O	441	LYS	C-N-CA	7.87	131.62	120.28
6	G	66	VAL	CA-C-O	-7.87	112.29	120.71
6	G	441	LYS	CA-C-N	7.87	131.61	120.28
6	G	441	LYS	C-N-CA	7.87	131.61	120.28
6	G	207	ASP	CA-C-N	7.86	130.81	120.28
6	G	207	ASP	C-N-CA	7.86	130.81	120.28
5	W	25	ARG	CA-C-O	7.86	129.09	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	705	ALA	N-CA-C	-7.85	103.26	112.92
3	L	556	HIS	CA-C-O	7.85	129.03	120.71
3	L	705	ALA	N-CA-C	-7.84	103.28	112.92
4	V	733	LYS	N-CA-C	-7.84	96.14	109.24
2	K	400	ALA	N-CA-C	-7.84	94.10	110.80
4	E	733	LYS	N-CA-C	-7.84	96.15	109.24
5	F	25	ARG	CA-C-O	7.84	129.07	120.92
2	C	400	ALA	N-CA-C	-7.83	94.12	110.80
6	O	207	ASP	CA-C-N	7.82	130.76	120.28
6	O	207	ASP	C-N-CA	7.82	130.76	120.28
6	O	805	LYS	N-CA-C	-7.81	97.41	109.52
3	D	232	VAL	CA-C-N	7.81	131.06	120.44
3	D	232	VAL	C-N-CA	7.81	131.06	120.44
6	G	805	LYS	N-CA-C	-7.81	97.42	109.52
7	H	48	PHE	N-CA-C	-7.81	97.02	109.59
6	O	790	LEU	N-CA-C	-7.80	98.71	109.71
3	L	232	VAL	CA-C-N	7.80	131.05	120.44
3	L	232	VAL	C-N-CA	7.80	131.05	120.44
6	G	790	LEU	N-CA-C	-7.80	98.72	109.71
5	F	141	GLN	CA-C-N	7.79	130.38	120.56
5	F	141	GLN	C-N-CA	7.79	130.38	120.56
5	N	141	GLN	CA-C-N	7.79	130.38	120.56
5	N	141	GLN	C-N-CA	7.79	130.38	120.56
7	P	48	PHE	N-CA-C	-7.79	97.05	109.59
5	W	141	GLN	CA-C-N	7.79	130.37	120.56
5	W	141	GLN	C-N-CA	7.79	130.37	120.56
4	V	266	VAL	CA-C-N	7.78	130.36	120.56
4	V	266	VAL	C-N-CA	7.78	130.36	120.56
4	E	266	VAL	CA-C-N	7.78	130.36	120.56
4	E	266	VAL	C-N-CA	7.78	130.36	120.56
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
4	E	364	ILE	CA-C-N	7.77	130.54	120.44
4	E	364	ILE	C-N-CA	7.77	130.54	120.44
4	M	266	VAL	CA-C-N	7.76	130.34	120.56
4	M	266	VAL	C-N-CA	7.76	130.34	120.56
5	F	49	PHE	CA-C-O	-7.76	112.67	120.82
4	V	364	ILE	CA-C-N	7.76	130.53	120.44
4	V	364	ILE	C-N-CA	7.76	130.53	120.44
4	M	364	ILE	CA-C-N	7.76	130.53	120.44
4	M	364	ILE	C-N-CA	7.76	130.53	120.44
4	E	403	THR	CA-C-N	7.75	130.66	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	403	THR	C-N-CA	7.75	130.66	120.28
4	E	530	PHE	N-CA-C	7.75	119.36	111.07
2	K	138	VAL	CA-C-N	7.75	132.09	120.31
2	K	138	VAL	C-N-CA	7.75	132.09	120.31
3	D	532	ASP	N-CA-C	-7.75	103.85	113.38
6	O	868	VAL	N-CA-C	-7.75	97.15	108.23
4	M	403	THR	CA-C-N	7.74	130.65	120.28
4	M	403	THR	C-N-CA	7.74	130.65	120.28
3	L	532	ASP	N-CA-C	-7.74	103.86	113.38
3	L	631	LYS	CA-C-N	7.73	130.49	120.44
3	L	631	LYS	C-N-CA	7.73	130.49	120.44
6	O	966	THR	CA-C-O	-7.73	113.18	121.45
6	G	868	VAL	N-CA-C	-7.73	97.18	108.23
6	O	287	ASP	N-CA-C	7.73	119.70	111.28
7	P	118	ALA	CA-C-N	7.73	133.12	122.07
7	P	118	ALA	C-N-CA	7.73	133.12	122.07
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
6	G	966	THR	CA-C-O	-7.72	113.19	121.45
4	V	530	PHE	N-CA-C	7.72	119.34	111.07
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
3	D	110	THR	N-CA-C	-7.71	103.89	113.38
4	V	403	THR	CA-C-N	7.71	130.62	120.28
4	V	403	THR	C-N-CA	7.71	130.62	120.28
4	M	530	PHE	N-CA-C	7.71	119.32	111.07
2	C	138	VAL	CA-C-N	7.71	132.03	120.31
2	C	138	VAL	C-N-CA	7.71	132.03	120.31
3	L	110	THR	N-CA-C	-7.71	103.90	113.38
6	G	287	ASP	N-CA-C	7.71	119.68	111.28
6	G	857	GLN	O-C-N	7.70	130.00	122.07
6	G	53	GLU	CA-C-N	7.69	132.05	121.05
6	G	53	GLU	C-N-CA	7.69	132.05	121.05
4	V	235	VAL	CA-C-N	7.69	132.00	120.31
4	V	235	VAL	C-N-CA	7.69	132.00	120.31
6	G	857	GLN	CA-C-O	-7.69	112.75	120.82
5	N	49	PHE	CA-C-O	-7.69	112.75	120.82
4	V	678	THR	N-CA-C	-7.69	97.63	109.24
4	V	861	SER	N-CA-C	-7.69	103.79	113.02
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	O	325	ILE	CA-C-O	7.68	128.94	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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	E	235	VAL	CA-C-N	7.68	131.98	120.31
4	E	235	VAL	C-N-CA	7.68	131.98	120.31
4	V	545	GLY	CA-C-N	7.68	130.42	120.44
4	V	545	GLY	C-N-CA	7.68	130.42	120.44
5	W	49	PHE	CA-C-O	-7.68	112.76	120.82
6	O	466	CYS	N-CA-C	7.67	120.61	111.33
6	O	53	GLU	CA-C-N	7.67	132.02	121.05
6	O	53	GLU	C-N-CA	7.67	132.02	121.05
4	E	678	THR	N-CA-C	-7.67	97.66	109.24
4	M	545	GLY	CA-C-N	7.67	130.41	120.44
4	M	545	GLY	C-N-CA	7.67	130.41	120.44
6	O	377	ASP	N-CA-C	7.67	119.72	111.36
5	F	38	VAL	O-C-N	7.67	129.31	121.87
4	V	189	ASN	N-CA-C	-7.67	98.68	110.10
3	D	20	SER	CA-C-N	7.66	134.28	122.25
3	D	20	SER	C-N-CA	7.66	134.28	122.25
6	G	466	CYS	N-CA-C	7.66	120.60	111.33
5	N	38	VAL	O-C-N	7.66	129.30	121.87
6	G	325	ILE	CA-C-O	7.66	128.91	120.95
6	O	857	GLN	CA-C-O	-7.65	112.78	120.82
4	E	861	SER	N-CA-C	-7.65	103.84	113.02
3	L	20	SER	CA-C-N	7.65	134.26	122.25
3	L	20	SER	C-N-CA	7.65	134.26	122.25
4	E	189	ASN	N-CA-C	-7.65	98.71	110.10
4	M	189	ASN	N-CA-C	-7.65	98.70	110.10
6	G	377	ASP	N-CA-C	7.64	119.69	111.36
6	G	387	LEU	CA-C-N	7.64	130.52	120.28
6	G	387	LEU	C-N-CA	7.64	130.52	120.28
6	O	857	GLN	O-C-N	7.64	129.94	122.07
4	E	545	GLY	CA-C-N	7.64	130.37	120.44
4	E	545	GLY	C-N-CA	7.64	130.37	120.44
7	P	86	PHE	O-C-N	7.64	130.22	122.12
5	W	38	VAL	O-C-N	7.64	129.28	121.87
4	E	647	VAL	N-CA-C	-7.63	96.61	107.75
4	V	541	ALA	N-CA-C	-7.63	103.04	111.36
6	O	333	ASP	CA-C-N	7.63	130.83	120.38
6	O	333	ASP	C-N-CA	7.63	130.83	120.38
4	E	541	ALA	N-CA-C	-7.62	103.05	111.36
4	V	850	ASP	N-CA-C	-7.62	104.88	114.56
6	G	333	ASP	CA-C-N	7.62	130.81	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	333	ASP	C-N-CA	7.62	130.81	120.38
6	O	387	LEU	CA-C-N	7.62	130.48	120.28
6	O	387	LEU	C-N-CA	7.62	130.48	120.28
6	G	350	SER	N-CA-C	-7.61	101.08	112.04
5	N	46	LYS	CA-C-N	7.61	130.34	120.44
5	N	46	LYS	C-N-CA	7.61	130.34	120.44
5	W	46	LYS	CA-C-N	7.61	130.33	120.44
5	W	46	LYS	C-N-CA	7.61	130.33	120.44
3	L	543	LEU	O-C-N	-7.60	114.55	123.22
4	V	647	VAL	N-CA-C	-7.60	96.65	107.75
5	F	46	LYS	CA-C-N	7.60	130.32	120.44
5	F	46	LYS	C-N-CA	7.60	130.32	120.44
6	G	420	VAL	CA-C-N	7.60	130.47	120.28
6	G	420	VAL	C-N-CA	7.60	130.47	120.28
2	C	724	GLU	O-C-N	7.60	129.90	122.07
6	O	350	SER	N-CA-C	-7.60	101.09	112.04
2	C	72	ASP	N-CA-C	-7.60	103.99	113.18
4	M	541	ALA	N-CA-C	-7.59	103.08	111.36
6	O	420	VAL	CA-C-N	7.59	130.45	120.28
6	O	420	VAL	C-N-CA	7.59	130.45	120.28
2	K	72	ASP	N-CA-C	-7.59	104.00	113.18
7	P	86	PHE	CA-C-O	-7.58	112.51	120.55
4	E	850	ASP	N-CA-C	-7.58	104.94	114.56
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
2	K	724	GLU	O-C-N	7.58	129.87	122.07
2	K	375	ASN	N-CA-C	-7.57	105.99	114.62
6	O	837	ILE	CA-C-N	7.57	131.46	120.71
6	O	837	ILE	C-N-CA	7.57	131.46	120.71
7	H	86	PHE	O-C-N	7.56	130.14	122.12
3	D	543	LEU	O-C-N	-7.56	114.60	123.22
3	L	740	ALA	CA-C-N	7.56	130.26	120.44
3	L	740	ALA	C-N-CA	7.56	130.26	120.44
4	M	147	ALA	N-CA-C	7.55	119.59	111.36
4	V	147	ALA	N-CA-C	7.54	119.58	111.36
2	C	375	ASN	N-CA-C	-7.54	106.02	114.62
6	G	513	LYS	N-CA-C	-7.54	103.06	111.28
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
7	H	477	ASN	CA-C-N	-7.54	107.99	122.61
7	H	477	ASN	C-N-CA	-7.54	107.99	122.61
7	H	86	PHE	CA-C-O	-7.53	112.57	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	799	PRO	CA-C-N	7.53	128.28	120.00
3	D	799	PRO	C-N-CA	7.53	128.28	120.00
4	E	147	ALA	N-CA-C	7.52	119.56	111.36
4	M	62	GLY	O-C-N	-7.52	117.79	123.35
3	L	799	PRO	CA-C-N	7.52	128.27	120.00
3	L	799	PRO	C-N-CA	7.52	128.27	120.00
3	D	493	GLU	CA-C-N	7.51	130.35	120.28
3	D	493	GLU	C-N-CA	7.51	130.35	120.28
4	V	384	SER	CA-C-N	7.51	130.95	120.29
4	V	384	SER	C-N-CA	7.51	130.95	120.29
4	M	550	GLY	CA-C-N	7.51	135.88	121.54
4	M	550	GLY	C-N-CA	7.51	135.88	121.54
6	O	513	LYS	N-CA-C	-7.50	103.10	111.28
3	D	457	LEU	CA-C-N	7.50	130.16	120.56
3	D	457	LEU	C-N-CA	7.50	130.16	120.56
3	D	114	ILE	N-CA-C	-7.49	97.30	108.46
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
4	V	550	GLY	CA-C-N	7.49	135.85	121.54
4	V	550	GLY	C-N-CA	7.49	135.85	121.54
4	V	62	GLY	O-C-N	-7.49	117.81	123.35
4	E	550	GLY	CA-C-N	7.49	135.84	121.54
4	E	550	GLY	C-N-CA	7.49	135.84	121.54
3	L	114	ILE	N-CA-C	-7.49	97.31	108.46
6	G	576	LYS	N-CA-C	-7.48	103.28	113.30
2	K	453	CYS	CA-C-O	-7.47	113.26	121.33
2	K	709	ILE	CA-C-N	7.47	134.21	121.14
2	K	709	ILE	C-N-CA	7.47	134.21	121.14
3	L	493	GLU	CA-C-N	7.47	130.29	120.28
3	L	493	GLU	C-N-CA	7.47	130.29	120.28
4	E	286	ALA	CA-C-N	7.47	129.17	119.84
4	E	286	ALA	C-N-CA	7.47	129.17	119.84
2	C	668	LEU	N-CA-C	-7.46	104.20	113.38
4	M	384	SER	CA-C-N	7.46	130.88	120.29
4	M	384	SER	C-N-CA	7.46	130.88	120.29
2	K	668	LEU	N-CA-C	-7.46	104.21	113.38
2	K	264	ILE	N-CA-C	-7.45	97.75	108.48
2	C	264	ILE	N-CA-C	-7.45	97.75	108.48
3	D	278	ALA	CA-C-O	-7.45	113.28	121.33
3	L	278	ALA	CA-C-O	-7.45	113.28	121.33
2	C	748	ILE	CA-C-N	7.45	130.87	120.29
2	C	748	ILE	C-N-CA	7.45	130.87	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	286	ALA	CA-C-N	7.45	129.15	119.84
4	M	286	ALA	C-N-CA	7.45	129.15	119.84
4	M	329	LEU	N-CA-C	7.45	119.48	111.36
4	V	561	ALA	N-CA-C	7.45	119.40	111.28
2	C	709	ILE	CA-C-N	7.45	134.17	121.14
2	C	709	ILE	C-N-CA	7.45	134.17	121.14
6	O	576	LYS	N-CA-C	-7.45	103.32	113.30
4	V	460	GLY	CA-C-N	7.45	130.86	120.29
4	V	460	GLY	C-N-CA	7.45	130.86	120.29
3	L	457	LEU	CA-C-N	7.44	130.08	120.56
3	L	457	LEU	C-N-CA	7.44	130.08	120.56
4	V	286	ALA	CA-C-N	7.44	129.14	119.84
4	V	286	ALA	C-N-CA	7.44	129.14	119.84
6	O	902	TYR	N-CA-C	-7.44	105.38	114.75
2	C	453	CYS	CA-C-O	-7.43	113.30	121.33
4	M	460	GLY	CA-C-N	7.43	130.84	120.29
4	M	460	GLY	C-N-CA	7.43	130.84	120.29
4	V	329	LEU	N-CA-C	7.43	119.46	111.36
4	E	460	GLY	CA-C-N	7.43	130.84	120.29
4	E	460	GLY	C-N-CA	7.43	130.84	120.29
6	G	902	TYR	N-CA-C	-7.43	105.39	114.75
4	E	62	GLY	O-C-N	-7.42	117.86	123.35
2	K	748	ILE	CA-C-N	7.42	130.83	120.29
2	K	748	ILE	C-N-CA	7.42	130.83	120.29
4	M	561	ALA	N-CA-C	7.42	119.37	111.28
3	D	129	ASP	N-CA-C	7.42	120.43	111.82
3	L	129	ASP	N-CA-C	7.42	120.43	111.82
3	L	111	GLN	CA-C-O	-7.42	113.45	120.94
4	V	211	VAL	CA-C-N	7.41	130.22	120.28
4	V	211	VAL	C-N-CA	7.41	130.22	120.28
3	D	104	CYS	CA-C-N	7.41	134.47	122.69
3	D	104	CYS	C-N-CA	7.41	134.47	122.69
4	E	561	ALA	N-CA-C	7.41	119.36	111.28
4	V	845	ARG	N-CA-C	-7.41	96.45	108.52
4	E	845	ARG	N-CA-C	-7.40	96.46	108.52
7	H	368	THR	N-CA-C	-7.40	103.20	111.71
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
6	O	287	ASP	CA-C-N	7.39	130.05	120.44
6	O	287	ASP	C-N-CA	7.39	130.05	120.44
4	E	329	LEU	N-CA-C	7.38	119.41	111.36
2	K	231	ILE	N-CA-C	-7.38	97.83	108.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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
6	O	797	PHE	N-CA-C	-7.37	97.39	109.40
4	E	738	ASN	N-CA-C	-7.37	95.11	110.80
4	E	211	VAL	CA-C-N	7.36	130.15	120.28
4	E	211	VAL	C-N-CA	7.36	130.15	120.28
2	C	757	LEU	CA-C-N	7.36	130.15	120.28
2	C	757	LEU	C-N-CA	7.36	130.15	120.28
3	D	111	GLN	CA-C-O	-7.36	113.50	120.94
4	E	670	ASN	CA-C-O	-7.36	112.62	120.42
6	G	797	PHE	N-CA-C	-7.36	97.41	109.40
3	L	744	LEU	O-C-N	7.36	129.92	122.12
4	E	55	ILE	N-CA-C	7.35	117.44	110.53
4	V	55	ILE	N-CA-C	7.35	117.44	110.53
5	W	121	LEU	CA-C-N	7.35	130.00	120.44
5	W	121	LEU	C-N-CA	7.35	130.00	120.44
2	C	231	ILE	N-CA-C	-7.35	97.87	108.53
2	K	757	LEU	CA-C-N	7.34	130.12	120.28
2	K	757	LEU	C-N-CA	7.34	130.12	120.28
4	V	738	ASN	N-CA-C	-7.34	95.16	110.80
4	E	772	PHE	CA-C-O	-7.34	112.64	120.42
4	M	295	PHE	N-CA-C	7.33	119.28	111.28
4	E	319	PRO	CA-C-N	7.33	130.11	120.28
4	E	319	PRO	C-N-CA	7.33	130.11	120.28
5	N	67	VAL	CA-C-O	7.33	128.09	120.39
3	D	682	GLN	CA-C-N	7.33	130.10	120.28
3	D	682	GLN	C-N-CA	7.33	130.10	120.28
3	D	684	SER	N-CA-C	7.33	118.91	111.07
3	L	401	SER	CA-C-O	7.33	126.63	119.08
5	W	67	VAL	CA-C-O	7.33	128.09	120.39
3	L	684	SER	N-CA-C	7.33	118.91	111.07
2	C	223	GLY	N-CA-C	-7.32	98.38	111.19
5	F	67	VAL	CA-C-O	7.32	128.08	120.39
4	V	670	ASN	CA-C-O	-7.32	112.66	120.42
5	F	121	LEU	CA-C-N	7.32	129.95	120.44
5	F	121	LEU	C-N-CA	7.32	129.95	120.44
4	V	319	PRO	CA-C-N	7.32	130.08	120.28
4	V	319	PRO	C-N-CA	7.32	130.08	120.28
2	C	694	TYR	CA-C-N	7.31	130.68	120.29
2	C	694	TYR	C-N-CA	7.31	130.68	120.29
6	O	195	MET	N-CA-C	-7.31	96.12	108.26
4	E	295	PHE	N-CA-C	7.31	119.25	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	788	SER	CA-C-O	-7.31	110.15	120.16
2	K	223	GLY	N-CA-C	-7.31	98.40	111.19
6	G	195	MET	N-CA-C	-7.31	96.13	108.26
4	M	55	ILE	N-CA-C	7.30	117.39	110.53
5	N	121	LEU	CA-C-N	7.30	129.93	120.44
5	N	121	LEU	C-N-CA	7.30	129.93	120.44
4	V	543	ASN	CA-C-O	-7.30	113.16	120.82
3	L	682	GLN	CA-C-N	7.30	130.06	120.28
3	L	682	GLN	C-N-CA	7.30	130.06	120.28
4	E	543	ASN	CA-C-O	-7.29	113.17	120.82
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
3	D	401	SER	CA-C-O	7.28	126.58	119.08
6	G	499	GLU	N-CA-C	7.28	126.30	110.80
4	V	295	PHE	N-CA-C	7.28	119.21	111.28
6	O	788	SER	CA-C-O	-7.27	110.20	120.16
2	K	694	TYR	CA-C-N	7.27	130.61	120.29
2	K	694	TYR	C-N-CA	7.27	130.61	120.29
2	C	98	THR	N-CA-C	-7.26	97.59	108.99
2	K	98	THR	N-CA-C	-7.26	97.58	108.99
4	V	330	GLU	N-CA-C	7.26	119.28	111.36
6	G	459	LEU	CA-C-O	-7.26	112.85	120.55
4	V	772	PHE	CA-C-O	-7.26	112.72	120.42
3	D	744	LEU	O-C-N	7.25	129.81	122.12
6	O	499	GLU	N-CA-C	7.25	126.25	110.80
4	M	543	ASN	CA-C-O	-7.25	113.21	120.82
3	D	771	LYS	N-CA-C	7.24	118.82	111.07
3	L	771	LYS	N-CA-C	7.24	118.81	111.07
6	O	459	LEU	CA-C-O	-7.24	112.88	120.55
2	K	534	ALA	CA-C-N	7.23	132.98	123.00
2	K	534	ALA	C-N-CA	7.23	132.98	123.00
6	G	561	LEU	CA-C-N	7.23	129.96	120.28
6	G	561	LEU	C-N-CA	7.23	129.96	120.28
4	E	330	GLU	N-CA-C	7.22	119.23	111.36
6	G	105	TYR	N-CA-C	-7.22	103.57	112.88
4	M	330	GLU	N-CA-C	7.22	119.22	111.36
6	O	105	TYR	N-CA-C	-7.21	103.57	112.88
4	M	62	GLY	CA-C-N	7.21	129.94	120.28
4	M	62	GLY	C-N-CA	7.21	129.94	120.28
6	O	496	GLU	CA-C-O	-7.20	112.79	120.42
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	446	ASP	N-CA-C	-7.20	103.51	111.36
4	E	386	LEU	CA-C-O	-7.20	113.28	120.70
6	O	784	VAL	N-CA-C	-7.20	105.70	112.83
6	O	561	LEU	CA-C-N	7.19	129.92	120.28
6	O	561	LEU	C-N-CA	7.19	129.92	120.28
2	C	571	THR	N-CA-C	-7.19	103.52	111.36
4	V	62	GLY	CA-C-N	7.19	129.91	120.28
4	V	62	GLY	C-N-CA	7.19	129.91	120.28
4	V	386	LEU	CA-C-O	-7.18	113.30	120.70
2	C	144	HIS	N-CA-C	-7.18	101.69	110.31
6	G	496	GLU	CA-C-O	-7.18	112.81	120.42
6	G	784	VAL	N-CA-C	-7.18	105.73	112.83
2	K	144	HIS	N-CA-C	-7.18	101.70	110.31
4	E	62	GLY	CA-C-N	7.17	129.89	120.28
4	E	62	GLY	C-N-CA	7.17	129.89	120.28
2	K	571	THR	N-CA-C	-7.17	103.54	111.36
4	V	171	PHE	CA-C-N	7.17	129.89	120.28
4	V	171	PHE	C-N-CA	7.17	129.89	120.28
7	P	78	GLU	N-CA-C	7.17	119.09	111.28
4	M	171	PHE	CA-C-N	7.16	129.88	120.28
4	M	171	PHE	C-N-CA	7.16	129.88	120.28
3	D	422	LYS	N-CA-C	-7.16	103.70	113.30
3	D	394	PHE	N-CA-C	-7.16	96.89	109.06
7	H	78	GLU	N-CA-C	7.15	119.07	111.28
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
3	L	422	LYS	N-CA-C	-7.14	103.73	113.30
4	M	386	LEU	CA-C-O	-7.14	113.35	120.70
3	L	394	PHE	N-CA-C	-7.14	96.93	109.06
6	O	587	LEU	CA-C-O	-7.14	112.99	120.55
4	M	181	ALA	CA-C-N	7.13	129.84	120.28
4	M	181	ALA	C-N-CA	7.13	129.84	120.28
4	E	171	PHE	CA-C-N	7.13	129.83	120.28
4	E	171	PHE	C-N-CA	7.13	129.83	120.28
6	O	479	VAL	N-CA-C	7.13	117.92	110.72
2	K	296	VAL	CA-C-N	7.12	133.75	122.21
2	K	296	VAL	C-N-CA	7.12	133.75	122.21
6	G	587	LEU	CA-C-O	-7.12	113.00	120.55
2	C	718	LYS	CA-C-N	7.12	130.40	120.29
2	C	718	LYS	C-N-CA	7.12	130.40	120.29
3	L	656	ILE	CA-C-N	7.12	129.82	120.28
3	L	656	ILE	C-N-CA	7.12	129.82	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	296	VAL	CA-C-N	7.12	133.74	122.21
2	C	296	VAL	C-N-CA	7.12	133.74	122.21
4	E	698	LEU	O-C-N	-7.12	114.84	121.32
3	L	171	GLN	CA-C-N	7.11	129.81	120.28
3	L	171	GLN	C-N-CA	7.11	129.81	120.28
3	D	656	ILE	CA-C-N	7.11	129.81	120.28
3	D	656	ILE	C-N-CA	7.11	129.81	120.28
6	G	586	MET	CA-C-O	-7.11	112.89	120.42
6	O	586	MET	CA-C-O	-7.11	112.89	120.42
2	C	322	GLU	CA-C-O	-7.11	113.15	121.46
2	C	647	THR	CA-C-N	7.11	129.80	120.28
2	C	647	THR	C-N-CA	7.11	129.80	120.28
6	G	240	SER	CA-C-N	7.11	129.80	120.28
6	G	240	SER	C-N-CA	7.11	129.80	120.28
3	L	326	ASN	N-CA-C	-7.11	98.78	109.94
6	G	479	VAL	N-CA-C	7.10	117.89	110.72
4	E	181	ALA	CA-C-N	7.10	129.79	120.28
4	E	181	ALA	C-N-CA	7.10	129.79	120.28
2	K	806	THR	N-CA-C	-7.10	104.62	113.28
4	V	698	LEU	O-C-N	-7.10	114.86	121.32
3	D	326	ASN	N-CA-C	-7.10	98.80	109.94
4	E	632	SER	N-CA-C	-7.09	98.52	109.52
6	O	42	LEU	O-C-N	-7.09	114.60	122.12
3	L	155	ASN	CA-C-O	7.09	128.10	119.38
2	K	647	THR	CA-C-N	7.09	129.78	120.28
2	K	647	THR	C-N-CA	7.09	129.78	120.28
2	K	718	LYS	CA-C-N	7.09	130.36	120.29
2	K	718	LYS	C-N-CA	7.09	130.36	120.29
3	D	155	ASN	CA-C-O	7.09	128.10	119.38
2	C	806	THR	N-CA-C	-7.08	104.64	113.28
6	G	862	PHE	CA-C-N	7.07	131.42	120.75
6	G	862	PHE	C-N-CA	7.07	131.42	120.75
2	K	322	GLU	CA-C-O	-7.07	113.19	121.46
2	C	482	THR	CA-C-N	7.07	132.66	120.58
2	C	482	THR	C-N-CA	7.07	132.66	120.58
3	D	465	PRO	CA-C-N	7.07	132.51	120.71
3	D	465	PRO	C-N-CA	7.07	132.51	120.71
6	O	240	SER	CA-C-N	7.07	129.75	120.28
6	O	240	SER	C-N-CA	7.07	129.75	120.28
4	V	181	ALA	CA-C-N	7.07	129.75	120.28
4	V	181	ALA	C-N-CA	7.07	129.75	120.28
4	V	632	SER	N-CA-C	-7.07	98.57	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	38	VAL	CA-C-O	-7.06	113.61	120.95
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	K	195	ALA	N-CA-C	-7.06	103.01	111.69
6	O	862	PHE	CA-C-N	7.06	131.41	120.75
6	O	862	PHE	C-N-CA	7.06	131.41	120.75
4	E	857	THR	N-CA-C	-7.05	97.91	109.40
2	C	195	ALA	N-CA-C	-7.05	103.02	111.69
2	K	482	THR	CA-C-N	7.05	132.64	120.58
2	K	482	THR	C-N-CA	7.05	132.64	120.58
3	L	128	TRP	CA-C-O	7.05	128.02	120.55
3	L	195	SER	N-CA-C	7.05	120.44	110.50
5	N	38	VAL	CA-C-O	-7.05	113.62	120.95
4	V	857	THR	N-CA-C	-7.05	97.91	109.40
3	D	118	SER	N-CA-C	-7.05	98.64	109.14
2	K	128	VAL	N-CA-C	7.04	117.83	110.72
3	L	118	SER	N-CA-C	-7.04	98.65	109.14
3	D	652	GLY	N-CA-C	-7.04	105.37	115.64
2	C	173	SER	CA-C-N	7.04	128.63	119.84
2	C	173	SER	C-N-CA	7.04	128.63	119.84
3	D	195	SER	N-CA-C	7.03	120.42	110.50
6	G	42	LEU	O-C-N	-7.03	114.67	122.12
3	D	128	TRP	CA-C-O	7.03	128.00	120.55
2	C	128	VAL	N-CA-C	7.01	117.80	110.72
3	L	652	GLY	N-CA-C	-7.01	105.40	115.64
4	M	267	VAL	CA-C-N	7.01	129.56	120.44
4	M	267	VAL	C-N-CA	7.01	129.56	120.44
5	W	38	VAL	CA-C-O	-7.01	113.66	120.95
6	G	150	TYR	N-CA-C	-7.01	103.72	111.36
4	E	267	VAL	CA-C-N	7.01	129.55	120.44
4	E	267	VAL	C-N-CA	7.01	129.55	120.44
6	G	320	ASP	CA-C-N	7.01	129.55	120.44
6	G	320	ASP	C-N-CA	7.01	129.55	120.44
3	D	66	VAL	CA-C-N	7.00	129.67	120.28
3	D	66	VAL	C-N-CA	7.00	129.67	120.28
4	V	267	VAL	CA-C-N	7.00	129.54	120.44
4	V	267	VAL	C-N-CA	7.00	129.54	120.44
3	D	630	PHE	CA-C-N	7.00	130.23	120.29
3	D	630	PHE	C-N-CA	7.00	130.23	120.29
2	C	280	LYS	CA-C-O	6.99	126.52	118.55
2	K	173	SER	CA-C-N	6.99	128.58	119.84
2	K	173	SER	C-N-CA	6.99	128.58	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	1178	ARG	CA-C-N	6.99	128.88	120.14
2	K	1178	ARG	C-N-CA	6.99	128.88	120.14
2	C	396	ILE	N-CA-C	6.99	122.74	112.61
6	O	320	ASP	CA-C-N	6.99	129.52	120.44
6	O	320	ASP	C-N-CA	6.99	129.52	120.44
6	G	318	LEU	CA-C-N	6.98	129.64	120.28
6	G	318	LEU	C-N-CA	6.98	129.64	120.28
6	G	419	ASP	CA-C-O	6.98	127.95	120.55
3	D	621	VAL	CA-C-N	6.98	129.63	120.28
3	D	621	VAL	C-N-CA	6.98	129.63	120.28
3	L	66	VAL	CA-C-N	6.98	129.63	120.28
3	L	66	VAL	C-N-CA	6.98	129.63	120.28
6	O	419	ASP	CA-C-O	6.98	127.95	120.55
3	L	630	PHE	CA-C-N	6.98	130.20	120.29
3	L	630	PHE	C-N-CA	6.98	130.20	120.29
4	E	131	ILE	CA-C-N	6.97	130.77	120.87
4	E	131	ILE	C-N-CA	6.97	130.77	120.87
3	L	621	VAL	CA-C-N	6.97	129.63	120.28
3	L	621	VAL	C-N-CA	6.97	129.63	120.28
3	L	526	THR	N-CA-C	-6.97	98.57	108.96
3	D	526	THR	N-CA-C	-6.97	98.58	108.96
6	G	952	ALA	CA-C-O	6.97	127.93	120.55
4	V	131	ILE	CA-C-N	6.96	130.75	120.87
4	V	131	ILE	C-N-CA	6.96	130.75	120.87
2	C	1178	ARG	CA-C-N	6.96	128.83	120.14
2	C	1178	ARG	C-N-CA	6.96	128.83	120.14
4	M	131	ILE	CA-C-N	6.95	130.74	120.87
4	M	131	ILE	C-N-CA	6.95	130.74	120.87
2	C	323	ARG	CA-C-N	6.95	127.12	120.31
2	C	323	ARG	C-N-CA	6.95	127.12	120.31
6	O	503	GLU	N-CA-C	-6.95	96.00	110.80
4	V	510	LEU	CA-C-O	-6.95	113.52	120.82
4	V	663	PHE	N-CA-C	-6.95	97.08	108.41
2	K	117	ILE	N-CA-C	-6.95	98.11	108.12
2	K	396	ILE	N-CA-C	6.95	122.68	112.61
6	O	47	ILE	CA-C-O	-6.95	113.72	120.95
6	O	318	LEU	CA-C-N	6.95	129.59	120.28
6	O	318	LEU	C-N-CA	6.95	129.59	120.28
6	O	150	TYR	N-CA-C	-6.94	103.64	111.14
6	G	47	ILE	CA-C-O	-6.94	113.73	120.95
6	G	503	GLU	N-CA-C	-6.94	96.02	110.80
4	M	149	VAL	CA-C-N	6.94	130.68	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	149	VAL	C-N-CA	6.94	130.68	120.90
4	E	663	PHE	N-CA-C	-6.93	97.11	108.41
2	K	323	ARG	CA-C-N	6.93	127.11	120.31
2	K	323	ARG	C-N-CA	6.93	127.11	120.31
4	V	149	VAL	CA-C-N	6.93	130.67	120.90
4	V	149	VAL	C-N-CA	6.93	130.67	120.90
4	V	605	VAL	CA-C-N	6.93	131.82	120.94
4	V	605	VAL	C-N-CA	6.93	131.82	120.94
4	E	609	ARG	N-CA-C	-6.92	103.73	111.28
3	L	152	PRO	N-CA-C	-6.92	106.68	114.92
6	O	952	ALA	CA-C-O	6.92	127.89	120.55
2	C	117	ILE	N-CA-C	-6.92	98.16	108.12
4	M	348	LEU	CA-C-N	6.92	129.55	120.28
4	M	348	LEU	C-N-CA	6.92	129.55	120.28
2	K	280	LYS	CA-C-O	6.91	126.43	118.55
4	V	609	ARG	N-CA-C	-6.91	103.75	111.28
4	V	348	LEU	CA-C-N	6.91	129.53	120.28
4	V	348	LEU	C-N-CA	6.91	129.53	120.28
4	E	605	VAL	CA-C-N	6.90	131.78	120.94
4	E	605	VAL	C-N-CA	6.90	131.78	120.94
6	O	800	ILE	O-C-N	-6.90	115.71	123.10
3	D	152	PRO	N-CA-C	-6.90	106.71	114.92
4	E	510	LEU	CA-C-O	-6.90	113.57	120.82
5	F	121	LEU	CA-C-O	-6.90	113.58	120.82
7	P	90	ILE	O-C-N	-6.90	116.01	120.42
4	V	775	ALA	CA-C-N	6.90	129.41	120.44
4	V	775	ALA	C-N-CA	6.90	129.41	120.44
7	H	90	ILE	O-C-N	-6.89	116.01	120.42
4	V	391	PRO	N-CA-C	6.89	126.67	112.47
4	E	149	VAL	CA-C-N	6.89	130.62	120.90
4	E	149	VAL	C-N-CA	6.89	130.62	120.90
6	O	945	ARG	CA-C-O	6.89	128.68	121.38
3	D	369	VAL	N-CA-C	-6.89	98.47	108.11
6	G	945	ARG	CA-C-O	6.89	128.68	121.38
2	K	559	GLY	CA-C-O	-6.89	114.92	121.19
6	O	953	LEU	CA-C-O	-6.88	113.25	120.55
4	M	391	PRO	N-CA-C	6.88	126.64	112.47
5	N	121	LEU	CA-C-O	-6.88	113.60	120.82
6	G	318	LEU	N-CA-C	6.87	125.44	110.80
2	K	608	TYR	CA-C-N	6.87	129.37	120.44
2	K	608	TYR	C-N-CA	6.87	129.37	120.44
6	G	800	ILE	O-C-N	-6.87	115.75	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	953	LEU	CA-C-O	-6.87	113.27	120.55
4	M	510	LEU	CA-C-O	-6.87	113.61	120.82
4	E	391	PRO	N-CA-C	6.87	126.61	112.47
4	E	775	ALA	CA-C-N	6.87	129.37	120.44
4	E	775	ALA	C-N-CA	6.87	129.37	120.44
3	L	369	VAL	N-CA-C	-6.87	98.50	108.11
6	O	318	LEU	N-CA-C	6.87	125.42	110.80
4	E	348	LEU	CA-C-N	6.86	129.47	120.28
4	E	348	LEU	C-N-CA	6.86	129.47	120.28
6	O	497	ALA	CA-C-O	-6.86	113.15	120.42
2	C	608	TYR	CA-C-N	6.85	129.34	120.44
2	C	608	TYR	C-N-CA	6.85	129.34	120.44
2	C	630	GLN	N-CA-C	-6.84	96.22	110.80
5	W	121	LEU	CA-C-O	-6.84	113.63	120.82
2	K	630	GLN	N-CA-C	-6.84	96.23	110.80
4	V	270	ALA	N-CA-C	6.84	118.53	111.14
4	M	270	ALA	N-CA-C	6.84	118.52	111.14
4	E	354	GLU	CA-C-N	6.83	129.32	120.44
4	E	354	GLU	C-N-CA	6.83	129.32	120.44
2	C	559	GLY	CA-C-O	-6.83	114.97	121.19
2	K	652	ALA	N-CA-C	6.83	118.72	111.28
2	C	652	ALA	N-CA-C	6.83	118.72	111.28
4	M	285	LEU	O-C-N	-6.82	114.13	122.25
4	V	285	LEU	O-C-N	-6.82	114.13	122.25
2	K	739	LEU	N-CA-C	-6.82	99.85	110.42
6	O	540	PRO	N-CA-C	6.82	119.02	110.70
6	G	943	ARG	N-CA-C	-6.82	98.12	109.24
6	G	750	ASN	CA-C-N	6.82	131.80	122.19
6	G	750	ASN	C-N-CA	6.82	131.80	122.19
6	O	750	ASN	CA-C-N	6.82	131.80	122.19
6	O	750	ASN	C-N-CA	6.82	131.80	122.19
4	M	354	GLU	CA-C-N	6.81	129.30	120.44
4	M	354	GLU	C-N-CA	6.81	129.30	120.44
6	O	943	ARG	N-CA-C	-6.81	98.13	109.24
7	H	270	ASN	N-CA-C	-6.81	103.94	111.36
4	V	853	THR	N-CA-C	-6.81	98.75	109.50
6	G	497	ALA	CA-C-O	-6.80	113.21	120.42
6	G	229	GLU	CA-C-N	6.80	134.53	121.54
6	G	229	GLU	C-N-CA	6.80	134.53	121.54
6	O	229	GLU	CA-C-N	6.80	134.53	121.54
6	O	229	GLU	C-N-CA	6.80	134.53	121.54
6	O	402	ILE	CA-C-O	-6.80	114.13	118.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	285	LEU	O-C-N	-6.80	114.16	122.25
4	E	258	CYS	N-CA-C	-6.79	100.17	109.95
4	E	853	THR	N-CA-C	-6.79	98.76	109.50
2	C	739	LEU	N-CA-C	-6.79	99.89	110.42
3	D	396	TRP	N-CA-C	-6.78	99.53	110.32
2	C	243	ASP	N-CA-C	-6.78	98.79	109.50
2	K	228	GLN	CA-C-O	6.78	129.39	121.46
6	G	851	THR	N-CA-C	-6.78	100.19	109.95
3	L	67	ALA	CA-C-N	6.78	129.36	120.28
3	L	67	ALA	C-N-CA	6.78	129.36	120.28
2	C	770	GLU	CA-C-N	6.78	129.36	120.28
2	C	770	GLU	C-N-CA	6.78	129.36	120.28
6	G	170	ILE	CA-C-O	-6.77	110.87	119.95
6	G	558	ALA	N-CA-C	-6.77	96.37	110.80
4	E	270	ALA	N-CA-C	6.77	118.45	111.14
2	C	228	GLN	CA-C-O	6.77	129.38	121.46
3	L	396	TRP	N-CA-C	-6.77	99.56	110.32
5	W	114	LEU	CA-C-O	-6.77	113.71	120.82
4	V	497	LYS	CA-C-N	6.77	129.35	120.28
4	V	497	LYS	C-N-CA	6.77	129.35	120.28
2	K	243	ASP	N-CA-C	-6.76	98.81	109.50
4	M	497	LYS	CA-C-N	6.76	129.34	120.28
4	M	497	LYS	C-N-CA	6.76	129.34	120.28
5	F	114	LEU	CA-C-O	-6.76	113.72	120.82
6	G	540	PRO	N-CA-C	6.76	118.95	110.70
6	O	170	ILE	CA-C-O	-6.76	110.89	119.95
6	O	851	THR	N-CA-C	-6.76	100.22	109.95
6	O	856	ARG	CA-C-N	6.76	129.22	120.44
6	O	856	ARG	C-N-CA	6.76	129.22	120.44
4	V	258	CYS	N-CA-C	-6.76	100.22	109.95
4	E	497	LYS	CA-C-N	6.75	129.33	120.28
4	E	497	LYS	C-N-CA	6.75	129.33	120.28
6	G	493	ILE	CA-C-O	-6.75	113.93	120.95
5	N	114	LEU	CA-C-O	-6.75	113.73	120.82
4	V	354	GLU	CA-C-N	6.75	129.22	120.44
4	V	354	GLU	C-N-CA	6.75	129.22	120.44
4	M	258	CYS	N-CA-C	-6.75	100.23	109.95
6	O	558	ALA	N-CA-C	-6.75	96.43	110.80
3	D	613	ILE	N-CA-C	-6.75	94.31	108.88
4	E	420	CYS	O-C-N	6.75	129.02	122.07
3	L	454	ASN	CA-C-N	6.75	131.97	122.46
3	L	454	ASN	C-N-CA	6.75	131.97	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	226	ASP	N-CA-C	-6.74	96.44	110.80
3	D	67	ALA	CA-C-N	6.74	129.31	120.28
3	D	67	ALA	C-N-CA	6.74	129.31	120.28
2	K	693	CYS	O-C-N	6.74	129.37	122.09
6	G	402	ILE	CA-C-O	-6.73	114.18	118.69
6	G	856	ARG	CA-C-N	6.73	129.19	120.44
6	G	856	ARG	C-N-CA	6.73	129.19	120.44
2	K	608	TYR	N-CA-C	-6.73	105.69	114.04
6	O	493	ILE	CA-C-O	-6.73	113.95	120.95
3	L	613	ILE	N-CA-C	-6.73	94.35	108.88
3	D	454	ASN	CA-C-N	6.72	131.94	122.46
3	D	454	ASN	C-N-CA	6.72	131.94	122.46
2	K	226	ASP	N-CA-C	-6.72	96.48	110.80
4	V	420	CYS	O-C-N	6.72	129.00	122.07
4	M	420	CYS	O-C-N	6.72	128.99	122.07
4	M	447	GLU	CA-C-N	6.72	134.37	121.54
4	M	447	GLU	C-N-CA	6.72	134.37	121.54
6	O	43	LYS	CA-C-O	-6.72	113.77	120.82
6	O	581	PHE	O-C-N	-6.72	115.55	123.41
2	K	770	GLU	CA-C-N	6.71	129.27	120.28
2	K	770	GLU	C-N-CA	6.71	129.27	120.28
2	K	172	LEU	CA-C-N	6.71	129.72	120.39
2	K	172	LEU	C-N-CA	6.71	129.72	120.39
3	L	695	ASP	CA-C-N	6.71	129.27	120.28
3	L	695	ASP	C-N-CA	6.71	129.27	120.28
4	V	447	GLU	CA-C-N	6.71	134.35	121.54
4	V	447	GLU	C-N-CA	6.71	134.35	121.54
2	C	608	TYR	N-CA-C	-6.70	105.73	114.04
6	G	581	PHE	O-C-N	-6.70	115.57	123.41
6	O	329	LEU	N-CA-C	-6.70	105.01	113.72
6	O	187	ALA	CA-C-N	6.70	130.10	120.79
6	O	187	ALA	C-N-CA	6.70	130.10	120.79
3	D	695	ASP	CA-C-N	6.70	129.26	120.28
3	D	695	ASP	C-N-CA	6.70	129.26	120.28
4	E	713	PRO	N-CA-C	-6.70	101.39	111.57
7	P	70	THR	N-CA-C	-6.70	98.89	109.07
7	H	70	THR	N-CA-C	-6.69	98.90	109.07
4	V	834	PHE	CA-C-O	-6.69	113.82	121.72
2	C	693	CYS	O-C-N	6.69	129.31	122.09
4	V	713	PRO	N-CA-C	-6.69	101.40	111.57
4	E	447	GLU	CA-C-N	6.68	134.30	121.54
4	E	447	GLU	C-N-CA	6.68	134.30	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	56	ASP	CA-C-O	6.68	127.91	120.43
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
6	G	329	LEU	N-CA-C	-6.68	105.04	113.72
2	C	172	LEU	CA-C-N	6.67	129.67	120.39
2	C	172	LEU	C-N-CA	6.67	129.67	120.39
2	C	323	ARG	O-C-N	-6.67	113.64	121.32
5	W	56	ASP	CA-C-O	6.67	127.91	120.43
4	E	619	ALA	CA-C-O	6.67	127.62	120.55
6	G	314	HIS	N-CA-C	-6.67	105.70	114.31
7	H	300	MET	CA-C-N	-6.67	114.23	123.10
7	H	300	MET	C-N-CA	-6.67	114.23	123.10
3	D	1	MET	O-C-N	-6.67	112.33	123.00
7	H	77	LEU	CA-C-N	6.67	129.21	120.28
7	H	77	LEU	C-N-CA	6.67	129.21	120.28
2	K	96	ILE	N-CA-C	-6.67	97.58	107.51
4	V	112	ASP	CA-C-N	6.67	129.21	120.28
4	V	112	ASP	C-N-CA	6.67	129.21	120.28
6	G	43	LYS	CA-C-O	-6.66	113.82	120.82
3	L	1	MET	O-C-N	-6.66	112.34	123.00
4	E	92	ILE	CA-C-O	-6.66	113.79	120.85
6	G	859	TRP	CA-C-O	6.65	127.80	120.82
6	O	388	HIS	CA-C-N	6.65	129.85	120.28
6	O	388	HIS	C-N-CA	6.65	129.85	120.28
4	M	112	ASP	CA-C-N	6.65	129.19	120.28
4	M	112	ASP	C-N-CA	6.65	129.19	120.28
6	O	314	HIS	N-CA-C	-6.65	105.73	114.31
5	N	56	ASP	CA-C-O	6.65	127.87	120.43
4	V	619	ALA	CA-C-O	6.65	127.59	120.55
2	K	323	ARG	O-C-N	-6.64	113.68	121.32
4	M	92	ILE	CA-C-O	-6.64	113.81	120.85
4	E	112	ASP	CA-C-N	6.64	129.18	120.28
4	E	112	ASP	C-N-CA	6.64	129.18	120.28
4	M	41	PRO	CA-C-N	6.64	129.07	120.44
4	M	41	PRO	C-N-CA	6.64	129.07	120.44
4	E	834	PHE	CA-C-O	-6.64	113.89	121.72
6	G	388	HIS	CA-C-N	6.63	129.83	120.28
6	G	388	HIS	C-N-CA	6.63	129.83	120.28
6	O	449	ILE	CA-C-O	6.63	127.19	120.96
6	O	520	THR	CA-C-N	6.63	129.16	120.28
6	O	520	THR	C-N-CA	6.63	129.16	120.28
7	P	77	LEU	CA-C-N	6.63	129.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	77	LEU	C-N-CA	6.63	129.17	120.28
2	C	754	GLN	CA-C-N	6.63	129.71	120.29
2	C	754	GLN	C-N-CA	6.63	129.71	120.29
2	K	94	ASP	CA-C-N	6.63	131.90	121.56
2	K	94	ASP	C-N-CA	6.63	131.90	121.56
2	C	96	ILE	N-CA-C	-6.62	97.64	107.51
4	V	92	ILE	CA-C-O	-6.62	113.83	120.85
6	G	747	VAL	N-CA-C	-6.62	98.93	108.53
6	O	747	VAL	N-CA-C	-6.62	98.93	108.53
2	C	94	ASP	CA-C-N	6.62	131.88	121.56
2	C	94	ASP	C-N-CA	6.62	131.88	121.56
6	G	449	ILE	CA-C-O	6.62	127.18	120.96
5	F	66	THR	N-CA-C	-6.61	99.24	109.76
2	K	319	LEU	CA-C-N	6.61	134.11	122.67
2	K	319	LEU	C-N-CA	6.61	134.11	122.67
3	L	58	LEU	CA-C-N	6.61	128.10	119.84
3	L	58	LEU	C-N-CA	6.61	128.10	119.84
3	L	437	PHE	CA-C-O	-6.61	114.06	121.00
7	P	72	LYS	O-C-N	-6.61	115.50	123.10
3	L	158	PHE	N-CA-C	-6.60	99.12	108.96
5	N	66	THR	N-CA-C	-6.60	99.26	109.76
3	D	58	LEU	CA-C-N	6.60	128.09	119.84
3	D	58	LEU	C-N-CA	6.60	128.09	119.84
5	W	66	THR	N-CA-C	-6.60	99.27	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
2	K	255	ALA	CA-C-O	6.60	128.19	120.14
7	H	72	LYS	O-C-N	-6.60	115.52	123.10
6	O	381	GLN	CA-C-N	6.60	129.12	120.28
6	O	381	GLN	C-N-CA	6.60	129.12	120.28
6	G	520	THR	CA-C-N	6.59	129.11	120.28
6	G	520	THR	C-N-CA	6.59	129.11	120.28
2	K	754	GLN	CA-C-N	6.59	129.65	120.29
2	K	754	GLN	C-N-CA	6.59	129.65	120.29
6	O	859	TRP	CA-C-O	6.59	127.74	120.82
3	D	158	PHE	N-CA-C	-6.59	99.14	108.96
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
2	C	255	ALA	CA-C-O	6.58	128.17	120.14
2	C	319	LEU	CA-C-N	6.58	134.06	122.67
2	C	319	LEU	C-N-CA	6.58	134.06	122.67
3	D	437	PHE	CA-C-O	-6.58	114.09	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	114	ASP	CA-C-N	6.58	129.40	120.44
7	H	114	ASP	C-N-CA	6.58	129.40	120.44
2	C	292	ASP	CA-C-N	6.58	134.10	121.54
2	C	292	ASP	C-N-CA	6.58	134.10	121.54
7	H	41	ASN	CA-C-N	6.58	134.10	121.54
7	H	41	ASN	C-N-CA	6.58	134.10	121.54
7	P	41	ASN	CA-C-N	6.58	134.11	121.54
7	P	41	ASN	C-N-CA	6.58	134.11	121.54
3	D	557	LEU	N-CA-C	-6.57	98.98	109.76
4	E	614	GLN	O-C-N	-6.57	115.15	122.12
4	V	298	SER	N-CA-C	6.57	122.59	113.45
4	V	41	PRO	CA-C-N	6.57	128.98	120.44
4	V	41	PRO	C-N-CA	6.57	128.98	120.44
4	M	322	VAL	CA-C-O	-6.57	113.54	120.57
3	L	557	LEU	N-CA-C	-6.57	98.99	109.76
4	V	608	THR	CA-C-N	6.57	129.08	120.28
4	V	608	THR	C-N-CA	6.57	129.08	120.28
4	E	608	THR	CA-C-N	6.57	129.08	120.28
4	E	608	THR	C-N-CA	6.57	129.08	120.28
4	E	441	GLU	CA-C-N	6.56	134.07	121.54
4	E	441	GLU	C-N-CA	6.56	134.07	121.54
4	M	298	SER	N-CA-C	6.56	122.57	113.45
6	O	881	LEU	O-C-N	6.56	128.82	122.07
4	V	441	GLU	CA-C-N	6.55	134.06	121.54
4	V	441	GLU	C-N-CA	6.55	134.06	121.54
6	G	234	VAL	CA-C-O	-6.55	113.78	121.05
2	C	136	HIS	CA-C-N	6.55	134.06	121.54
2	C	136	HIS	C-N-CA	6.55	134.06	121.54
2	K	136	HIS	CA-C-N	6.55	134.05	121.54
2	K	136	HIS	C-N-CA	6.55	134.05	121.54
2	K	292	ASP	CA-C-N	6.55	134.05	121.54
2	K	292	ASP	C-N-CA	6.55	134.05	121.54
3	D	698	GLY	CA-C-N	6.55	129.05	120.28
3	D	698	GLY	C-N-CA	6.55	129.05	120.28
4	E	298	SER	N-CA-C	6.55	122.55	113.45
2	K	783	GLU	CA-C-N	6.54	134.04	121.54
2	K	783	GLU	C-N-CA	6.54	134.04	121.54
7	P	114	ASP	CA-C-N	6.54	129.34	120.44
7	P	114	ASP	C-N-CA	6.54	129.34	120.44
2	K	740	GLY	N-CA-C	6.54	121.81	113.24
6	G	841	ILE	CA-C-N	6.54	129.69	120.28
6	G	841	ILE	C-N-CA	6.54	129.69	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	441	GLU	CA-C-N	6.54	134.02	121.54
4	M	441	GLU	C-N-CA	6.54	134.02	121.54
6	O	234	VAL	CA-C-O	-6.54	113.80	121.05
6	G	881	LEU	O-C-N	6.53	128.80	122.07
4	V	614	GLN	O-C-N	-6.53	115.20	122.12
3	D	702	LEU	O-C-N	6.53	129.14	122.09
6	G	223	LEU	CA-C-O	-6.53	113.63	120.55
4	M	415	ARG	CA-C-N	6.53	129.03	120.28
4	M	415	ARG	C-N-CA	6.53	129.03	120.28
4	V	415	ARG	CA-C-N	6.53	129.03	120.28
4	V	415	ARG	C-N-CA	6.53	129.03	120.28
3	L	785	ALA	CA-C-N	6.52	129.02	120.28
3	L	785	ALA	C-N-CA	6.52	129.02	120.28
2	C	740	GLY	N-CA-C	6.52	121.79	113.24
6	G	924	VAL	O-C-N	6.52	130.03	123.18
3	L	698	GLY	CA-C-N	6.52	129.01	120.28
3	L	698	GLY	C-N-CA	6.52	129.01	120.28
5	W	18	ILE	N-CA-C	-6.52	98.12	107.77
2	K	218	PRO	N-CA-C	-6.51	103.68	114.75
4	E	415	ARG	CA-C-N	6.51	129.01	120.28
4	E	415	ARG	C-N-CA	6.51	129.01	120.28
4	E	191	MET	O-C-N	6.51	129.12	122.09
4	E	322	VAL	CA-C-O	-6.51	113.60	120.57
6	O	924	VAL	O-C-N	6.51	130.02	123.18
2	C	783	GLU	CA-C-N	6.51	133.97	121.54
2	C	783	GLU	C-N-CA	6.51	133.97	121.54
6	O	841	ILE	CA-C-N	6.51	129.65	120.28
6	O	841	ILE	C-N-CA	6.51	129.65	120.28
7	H	361	VAL	CA-C-N	-6.51	112.90	122.86
7	H	361	VAL	C-N-CA	-6.51	112.90	122.86
4	M	255	ILE	CA-C-N	6.51	133.97	121.54
4	M	255	ILE	C-N-CA	6.51	133.97	121.54
6	O	105	TYR	CA-C-O	6.51	127.27	119.59
4	E	178	VAL	CA-C-N	6.50	129.29	120.44
4	E	178	VAL	C-N-CA	6.50	129.29	120.44
4	E	840	ILE	N-CA-C	-6.50	98.76	108.12
3	D	785	ALA	CA-C-N	6.50	128.99	120.28
3	D	785	ALA	C-N-CA	6.50	128.99	120.28
6	G	105	TYR	CA-C-O	6.50	127.26	119.59
7	P	57	VAL	N-CA-C	-6.50	98.27	108.86
5	F	18	ILE	N-CA-C	-6.50	98.15	107.77
4	V	255	ILE	CA-C-N	6.50	133.95	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	255	ILE	C-N-CA	6.50	133.95	121.54
4	V	322	VAL	CA-C-O	-6.50	113.62	120.57
4	V	178	VAL	CA-C-N	6.50	129.27	120.44
4	V	178	VAL	C-N-CA	6.50	129.27	120.44
4	V	840	ILE	N-CA-C	-6.50	98.77	108.12
6	G	435	ARG	N-CA-C	-6.49	101.81	111.81
7	H	57	VAL	N-CA-C	-6.49	98.28	108.86
3	L	578	LYS	N-CA-C	-6.49	104.05	112.23
3	D	402	GLU	N-CA-C	-6.49	98.03	109.06
5	N	18	ILE	N-CA-C	-6.49	98.17	107.77
4	V	191	MET	O-C-N	6.49	129.10	122.09
2	C	218	PRO	N-CA-C	-6.49	103.73	114.75
4	M	191	MET	O-C-N	6.49	129.09	122.09
6	O	435	ARG	N-CA-C	-6.48	101.82	111.81
6	O	479	VAL	CA-C-N	6.48	130.17	120.31
6	O	479	VAL	C-N-CA	6.48	130.17	120.31
3	D	45	GLU	N-CA-C	6.48	119.31	111.40
3	L	498	ALA	N-CA-C	6.48	118.00	111.07
4	M	178	VAL	CA-C-N	6.48	129.25	120.44
4	M	178	VAL	C-N-CA	6.48	129.25	120.44
6	O	561	LEU	N-CA-C	-6.48	104.22	111.28
3	D	578	LYS	N-CA-C	-6.48	104.07	112.23
4	E	450	VAL	CA-C-O	-6.47	114.22	120.95
2	K	733	TYR	CA-C-N	6.47	128.86	120.44
2	K	733	TYR	C-N-CA	6.47	128.86	120.44
3	L	402	GLU	N-CA-C	-6.47	98.06	109.06
6	O	223	LEU	CA-C-O	-6.47	113.69	120.55
4	E	666	THR	N-CA-C	-6.47	98.43	109.24
3	L	617	GLN	CA-C-O	-6.47	113.69	120.55
4	E	255	ILE	CA-C-N	6.47	133.90	121.54
4	E	255	ILE	C-N-CA	6.47	133.90	121.54
3	D	617	GLN	CA-C-O	-6.47	113.70	120.55
3	L	702	LEU	O-C-N	6.46	129.07	122.09
4	V	450	VAL	CA-C-O	-6.46	114.23	120.95
6	G	338	LYS	CA-C-O	-6.46	114.05	120.70
7	H	457	SER	N-CA-C	-6.46	100.92	110.48
4	V	424	ILE	N-CA-C	6.45	117.20	110.62
2	C	733	TYR	CA-C-N	6.45	128.82	120.44
2	C	733	TYR	C-N-CA	6.45	128.82	120.44
2	K	628	TYR	N-CA-C	-6.45	104.89	112.89
3	L	45	GLU	N-CA-C	6.45	119.27	111.40
6	O	338	LYS	CA-C-O	-6.45	114.06	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	479	VAL	CA-C-N	6.45	130.11	120.31
6	G	479	VAL	C-N-CA	6.45	130.11	120.31
6	G	561	LEU	N-CA-C	-6.45	104.25	111.28
3	D	498	ALA	N-CA-C	6.44	117.97	111.07
4	M	248	ASP	O-C-N	-6.44	114.61	122.34
4	M	424	ILE	N-CA-C	6.44	117.19	110.62
4	E	649	ARG	N-CA-C	-6.44	98.40	108.90
4	M	450	VAL	CA-C-O	-6.44	114.25	120.95
2	C	693	CYS	CA-C-N	6.44	129.56	120.28
2	C	693	CYS	C-N-CA	6.44	129.56	120.28
2	K	699	ASN	CA-C-N	6.44	129.43	120.29
2	K	699	ASN	C-N-CA	6.44	129.43	120.29
3	D	544	ASN	N-CA-C	-6.43	99.63	109.41
4	E	248	ASP	O-C-N	-6.43	114.62	122.34
3	D	196	GLY	CA-C-O	6.43	131.76	120.57
6	G	67	LEU	N-CA-C	6.43	124.02	109.81
4	V	666	THR	N-CA-C	-6.43	98.51	109.24
4	V	649	ARG	N-CA-C	-6.43	98.43	108.90
6	G	169	LEU	N-CA-C	-6.42	97.12	110.80
2	C	699	ASN	CA-C-N	6.42	129.41	120.29
2	C	699	ASN	C-N-CA	6.42	129.41	120.29
4	E	424	ILE	N-CA-C	6.42	117.17	110.62
4	V	138	GLN	CA-C-N	6.42	128.88	120.28
4	V	138	GLN	C-N-CA	6.42	128.88	120.28
4	V	248	ASP	O-C-N	-6.42	114.64	122.34
4	V	360	LEU	CA-C-O	-6.42	113.75	120.55
7	P	83	LEU	CA-C-N	6.42	129.16	120.44
7	P	83	LEU	C-N-CA	6.42	129.16	120.44
6	O	169	LEU	N-CA-C	-6.41	97.14	110.80
6	O	948	SER	N-CA-C	-6.41	103.58	112.30
5	N	51	LYS	O-C-N	6.41	129.01	122.09
5	W	51	LYS	O-C-N	6.41	129.01	122.09
6	G	948	SER	N-CA-C	-6.41	103.58	112.30
2	K	693	CYS	CA-C-N	6.41	129.51	120.28
2	K	693	CYS	C-N-CA	6.41	129.51	120.28
3	L	196	GLY	CA-C-O	6.41	131.72	120.57
3	D	55	VAL	N-CA-C	6.41	116.55	110.53
3	D	148	ILE	O-C-N	6.41	129.96	123.10
3	D	637	VAL	O-C-N	-6.41	115.23	121.83
7	H	83	LEU	CA-C-N	6.41	129.15	120.44
7	H	83	LEU	C-N-CA	6.41	129.15	120.44
2	K	105	TYR	N-CA-C	-6.41	95.65	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	446	CYS	N-CA-C	-6.40	105.40	113.72
6	O	67	LEU	N-CA-C	6.40	123.96	109.81
6	O	264	ALA	CA-C-N	6.40	128.86	120.28
6	O	264	ALA	C-N-CA	6.40	128.86	120.28
5	F	84	TYR	CA-C-O	6.40	126.79	119.18
6	G	953	LEU	CA-C-N	6.40	128.85	120.28
6	G	953	LEU	C-N-CA	6.40	128.85	120.28
3	L	544	ASN	N-CA-C	-6.40	99.69	109.41
5	N	84	TYR	CA-C-O	6.40	126.79	119.18
6	G	37	SER	CA-C-N	6.39	129.37	120.29
6	G	37	SER	C-N-CA	6.39	129.37	120.29
6	G	365	ILE	CA-C-O	-6.39	113.50	121.11
5	W	138	ASP	N-CA-C	-6.39	98.47	109.15
6	O	37	SER	CA-C-N	6.39	129.37	120.29
6	O	37	SER	C-N-CA	6.39	129.37	120.29
6	G	517	GLU	CA-C-N	6.39	128.75	120.44
6	G	517	GLU	C-N-CA	6.39	128.75	120.44
3	L	148	ILE	O-C-N	6.39	129.94	123.10
5	W	133	VAL	N-CA-C	-6.39	99.03	109.12
3	L	637	VAL	O-C-N	-6.39	115.25	121.83
2	C	105	TYR	N-CA-C	-6.39	95.69	109.81
4	E	138	GLN	CA-C-N	6.38	128.84	120.28
4	E	138	GLN	C-N-CA	6.38	128.84	120.28
4	M	138	GLN	CA-C-N	6.38	128.84	120.28
4	M	138	GLN	C-N-CA	6.38	128.84	120.28
5	N	133	VAL	N-CA-C	-6.38	99.03	109.12
3	D	775	GLU	O-C-N	6.38	128.88	122.12
3	D	82	ARG	N-CA-C	-6.38	99.00	109.40
2	K	187	VAL	N-CA-C	-6.38	105.46	112.80
4	V	77	PHE	CA-C-N	6.38	128.83	120.28
4	V	77	PHE	C-N-CA	6.38	128.83	120.28
5	N	138	ASP	N-CA-C	-6.38	98.50	109.15
2	C	187	VAL	N-CA-C	-6.38	105.47	112.80
5	F	138	ASP	N-CA-C	-6.38	98.50	109.15
2	K	700	PHE	N-CA-C	-6.38	104.41	111.36
5	F	133	VAL	N-CA-C	-6.38	99.04	109.12
4	M	77	PHE	CA-C-N	6.38	128.82	120.28
4	M	77	PHE	C-N-CA	6.38	128.82	120.28
6	O	860	ALA	O-C-N	6.37	128.88	122.12
3	L	82	ARG	N-CA-C	-6.37	99.01	109.40
4	V	810	MET	CA-C-O	-6.37	113.33	120.66
6	G	137	MET	O-C-N	-6.37	115.88	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	517	GLU	CA-C-N	6.37	128.72	120.44
6	O	517	GLU	C-N-CA	6.37	128.72	120.44
6	O	819	VAL	CA-C-O	-6.37	112.93	121.02
5	W	84	TYR	CA-C-O	6.37	126.76	119.18
2	C	700	PHE	N-CA-C	-6.37	104.42	111.36
5	N	76	TYR	N-CA-C	-6.37	98.61	109.24
6	O	953	LEU	CA-C-N	6.37	128.81	120.28
6	O	953	LEU	C-N-CA	6.37	128.81	120.28
6	G	218	THR	N-CA-C	6.36	118.22	111.28
2	C	628	TYR	N-CA-C	-6.36	105.00	112.89
3	D	392	GLN	N-CA-C	-6.36	104.22	112.23
2	C	432	MET	N-CA-C	-6.36	103.01	113.50
2	C	43	LEU	CA-C-N	6.36	128.63	120.88
2	C	43	LEU	C-N-CA	6.36	128.63	120.88
5	F	51	LYS	O-C-N	6.36	128.96	122.09
4	E	77	PHE	CA-C-N	6.36	128.80	120.28
4	E	77	PHE	C-N-CA	6.36	128.80	120.28
6	G	819	VAL	CA-C-O	-6.36	112.95	121.02
3	L	55	VAL	N-CA-C	6.36	116.50	110.53
2	C	762	ALA	CA-C-N	6.35	128.79	120.28
2	C	762	ALA	C-N-CA	6.35	128.79	120.28
3	D	354	TYR	N-CA-C	-6.35	101.52	110.29
3	L	775	GLU	O-C-N	6.35	128.85	122.12
4	V	446	CYS	N-CA-C	-6.35	105.46	113.72
6	G	128	LYS	CA-C-O	-6.35	112.13	119.56
2	K	43	LEU	CA-C-N	6.35	128.63	120.88
2	K	43	LEU	C-N-CA	6.35	128.63	120.88
3	D	78	ASP	N-CA-C	-6.35	105.36	113.23
4	M	207	ASP	N-CA-C	-6.35	99.33	108.60
4	M	446	CYS	N-CA-C	-6.35	105.47	113.72
6	O	365	ILE	CA-C-O	-6.35	113.56	121.11
6	G	155	ALA	N-CA-C	6.35	117.86	111.07
2	K	168	ARG	N-CA-C	-6.35	97.28	110.80
3	L	354	TYR	N-CA-C	-6.35	101.53	110.29
5	W	76	TYR	N-CA-C	-6.35	98.64	109.24
4	E	360	LEU	CA-C-O	-6.34	113.83	120.55
6	G	264	ALA	CA-C-N	6.34	128.78	120.28
6	G	264	ALA	C-N-CA	6.34	128.78	120.28
3	L	392	GLN	N-CA-C	-6.34	104.24	112.23
4	E	664	ASP	N-CA-C	-6.34	98.39	108.73
6	G	860	ALA	O-C-N	6.34	128.84	122.12
6	O	155	ALA	N-CA-C	6.34	117.86	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	218	THR	N-CA-C	6.34	118.19	111.28
6	O	395	PRO	CA-C-N	6.34	128.78	120.28
6	O	395	PRO	C-N-CA	6.34	128.78	120.28
4	M	360	LEU	CA-C-O	-6.34	113.83	120.55
2	C	168	ARG	N-CA-C	-6.34	97.30	110.80
4	V	207	ASP	N-CA-C	-6.34	99.35	108.60
4	M	428	ASN	N-CA-C	6.33	120.47	112.87
4	E	207	ASP	N-CA-C	-6.33	99.35	108.60
3	L	78	ASP	N-CA-C	-6.33	105.38	113.23
3	L	57	ASP	N-CA-C	-6.33	104.81	113.30
4	E	810	MET	CA-C-O	-6.33	113.38	120.66
5	F	76	TYR	N-CA-C	-6.33	98.67	109.24
2	K	206	ARG	N-CA-C	-6.33	102.73	111.28
4	V	487	VAL	N-CA-C	6.33	117.11	110.72
4	E	455	ILE	CA-C-N	6.33	128.66	120.44
4	E	455	ILE	C-N-CA	6.33	128.66	120.44
4	V	664	ASP	N-CA-C	-6.33	98.42	108.73
6	G	316	ARG	O-C-N	-6.33	115.77	123.30
6	G	395	PRO	CA-C-N	6.33	128.76	120.28
6	G	395	PRO	C-N-CA	6.33	128.76	120.28
4	E	487	VAL	N-CA-C	6.32	117.10	110.72
6	G	118	GLY	CA-C-N	6.32	128.75	120.28
6	G	118	GLY	C-N-CA	6.32	128.75	120.28
2	K	432	MET	N-CA-C	-6.32	103.07	113.50
2	C	497	SER	CA-C-N	6.32	133.61	121.54
2	C	497	SER	C-N-CA	6.32	133.61	121.54
6	O	128	LYS	CA-C-O	-6.32	112.17	119.56
3	D	169	VAL	N-CA-C	-6.32	99.33	108.36
6	G	196	MET	CA-C-N	6.32	133.60	121.54
6	G	196	MET	C-N-CA	6.32	133.60	121.54
2	K	762	ALA	CA-C-N	6.32	128.74	120.28
2	K	762	ALA	C-N-CA	6.32	128.74	120.28
6	G	865	GLU	CA-C-N	6.31	130.07	121.05
6	G	865	GLU	C-N-CA	6.31	130.07	121.05
4	E	428	ASN	N-CA-C	6.31	120.44	112.87
2	C	677	LEU	CA-C-O	-6.31	113.74	120.42
4	E	682	GLU	CA-C-O	-6.31	113.69	119.62
4	E	670	ASN	O-C-N	6.30	129.34	122.15
2	K	497	SER	CA-C-N	6.30	133.58	121.54
2	K	497	SER	C-N-CA	6.30	133.58	121.54
2	K	574	LYS	N-CA-C	-6.30	98.11	108.76
2	C	766	GLY	N-CA-C	-6.30	106.20	115.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	196	MET	CA-C-N	6.30	133.58	121.54
6	O	196	MET	C-N-CA	6.30	133.58	121.54
3	D	57	ASP	N-CA-C	-6.30	104.86	113.30
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
2	C	571	THR	O-C-N	6.30	129.33	122.15
6	O	118	GLY	CA-C-N	6.30	128.72	120.28
6	O	118	GLY	C-N-CA	6.30	128.72	120.28
6	O	137	MET	O-C-N	-6.30	115.93	120.27
3	D	100	ASP	N-CA-C	-6.29	99.41	108.60
4	M	487	VAL	N-CA-C	6.29	117.07	110.72
2	C	206	ARG	N-CA-C	-6.29	102.79	111.28
2	K	766	GLY	N-CA-C	-6.29	106.22	115.72
4	V	455	ILE	CA-C-N	6.29	128.61	120.44
4	V	455	ILE	C-N-CA	6.29	128.61	120.44
2	C	574	LYS	N-CA-C	-6.29	98.14	108.76
6	O	316	ARG	O-C-N	-6.29	115.82	123.30
2	K	214	HIS	N-CA-C	-6.29	102.14	109.93
4	V	428	ASN	N-CA-C	6.29	120.41	112.87
3	L	169	VAL	N-CA-C	-6.28	99.37	108.36
6	G	561	LEU	O-C-N	-6.28	115.47	122.12
6	G	587	LEU	CA-C-N	6.27	128.69	120.28
6	G	587	LEU	C-N-CA	6.27	128.69	120.28
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	716	LEU	CA-C-N	6.27	128.68	120.28
2	K	716	LEU	C-N-CA	6.27	128.68	120.28
6	O	497	ALA	N-CA-C	6.27	118.19	111.36
3	L	100	ASP	N-CA-C	-6.27	99.45	108.60
7	H	374	ILE	O-C-N	6.26	125.32	121.37
2	C	214	HIS	N-CA-C	-6.26	102.17	109.93
3	D	271	MET	O-C-N	6.26	129.64	122.25
2	K	677	LEU	CA-C-O	-6.26	113.78	120.42
4	V	682	GLU	CA-C-O	-6.26	113.74	119.62
2	K	571	THR	O-C-N	6.26	129.28	122.15
2	K	584	GLU	N-CA-C	-6.26	105.13	112.89
3	L	58	LEU	N-CA-C	-6.26	100.69	110.14
4	M	108	SER	CA-C-O	-6.26	113.92	120.55
4	V	670	ASN	O-C-N	6.25	129.28	122.15
3	D	58	LEU	N-CA-C	-6.25	100.70	110.14
3	D	741	CYS	CA-C-N	6.25	128.94	120.44
3	D	741	CYS	C-N-CA	6.25	128.94	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	W	58	GLU	N-CA-C	-6.25	105.41	113.16
6	G	497	ALA	N-CA-C	6.25	118.17	111.36
4	V	27	VAL	N-CA-C	6.25	117.03	110.72
4	V	694	PRO	N-CA-C	6.25	120.78	111.41
3	L	741	CYS	CA-C-N	6.24	128.93	120.44
3	L	741	CYS	C-N-CA	6.24	128.93	120.44
5	F	142	VAL	O-C-N	6.24	128.03	121.91
5	N	142	VAL	O-C-N	6.24	128.02	121.91
4	M	548	LEU	N-CA-C	-6.24	104.26	113.61
6	O	934	PRO	CA-C-O	-6.24	113.92	122.15
5	F	58	GLU	N-CA-C	-6.23	105.43	113.16
4	E	259	LEU	N-CA-C	-6.23	101.15	110.06
2	C	716	LEU	CA-C-N	6.23	128.63	120.28
2	C	716	LEU	C-N-CA	6.23	128.63	120.28
4	E	694	PRO	N-CA-C	6.23	120.75	111.41
4	M	27	VAL	N-CA-C	6.23	117.01	110.72
5	N	58	GLU	N-CA-C	-6.23	105.44	113.16
6	O	561	LEU	O-C-N	-6.22	115.52	122.12
4	V	108	SER	CA-C-O	-6.22	113.95	120.55
3	L	271	MET	O-C-N	6.22	129.59	122.25
4	E	27	VAL	N-CA-C	6.22	117.00	110.72
4	E	108	SER	CA-C-O	-6.22	113.96	120.55
4	E	366	SER	CA-C-N	6.22	128.61	120.28
4	E	366	SER	C-N-CA	6.22	128.61	120.28
4	E	621	PRO	O-C-N	6.22	130.66	122.27
4	E	702	GLN	CA-C-N	6.22	126.13	119.85
4	E	702	GLN	C-N-CA	6.22	126.13	119.85
3	D	70	ASN	N-CA-C	-6.21	103.59	111.92
4	V	621	PRO	O-C-N	6.21	130.66	122.27
6	G	934	PRO	CA-C-O	-6.21	113.95	122.15
5	W	142	VAL	O-C-N	6.21	128.00	121.91
2	C	1189	GLY	N-CA-C	-6.21	106.75	115.32
4	M	259	LEU	N-CA-C	-6.21	101.18	110.06
4	M	463	GLY	CA-C-N	6.21	127.60	119.84
4	M	463	GLY	C-N-CA	6.21	127.60	119.84
7	P	61	MET	CA-C-O	-6.21	112.43	120.25
4	M	366	SER	CA-C-N	6.21	128.59	120.28
4	M	366	SER	C-N-CA	6.21	128.59	120.28
4	V	702	GLN	CA-C-N	6.21	126.12	119.85
4	V	702	GLN	C-N-CA	6.21	126.12	119.85
2	C	808	TRP	CA-C-O	-6.20	114.50	119.71
6	O	59	LEU	N-CA-C	6.20	118.83	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	269	GLU	O-C-N	6.20	128.46	122.07
6	G	59	LEU	N-CA-C	6.20	118.83	111.33
4	M	433	GLU	CA-C-N	6.20	128.59	120.28
4	M	433	GLU	C-N-CA	6.20	128.59	120.28
6	G	16	MET	CA-C-N	6.20	128.87	120.38
6	G	16	MET	C-N-CA	6.20	128.87	120.38
3	D	88	THR	N-CA-C	-6.20	104.89	112.88
2	K	29	HIS	N-CA-C	-6.20	105.21	112.89
7	H	61	MET	CA-C-O	-6.19	112.44	120.25
4	V	758	VAL	N-CA-C	-6.19	99.56	108.48
5	W	33	ASP	N-CA-C	-6.19	105.36	113.17
3	L	88	THR	N-CA-C	-6.19	104.89	112.88
4	V	259	LEU	N-CA-C	-6.19	101.20	110.06
2	K	75	ILE	N-CA-C	-6.19	99.50	108.17
2	K	385	ASN	N-CA-C	-6.19	102.87	110.61
7	P	92	GLU	N-CA-C	-6.19	104.61	111.36
2	C	570	VAL	CA-C-N	6.19	129.08	120.29
2	C	570	VAL	C-N-CA	6.19	129.08	120.29
5	N	33	ASP	N-CA-C	-6.19	105.37	113.17
4	E	837	GLY	CA-C-O	6.19	126.18	119.06
4	V	463	GLY	CA-C-N	6.19	127.58	119.84
4	V	463	GLY	C-N-CA	6.19	127.58	119.84
2	K	363	PHE	N-CA-C	-6.19	102.65	108.22
2	C	75	ILE	N-CA-C	-6.18	99.51	108.17
4	E	463	GLY	CA-C-N	6.18	127.57	119.84
4	E	463	GLY	C-N-CA	6.18	127.57	119.84
4	E	758	VAL	N-CA-C	-6.18	99.57	108.48
2	C	29	HIS	N-CA-C	-6.18	105.22	112.89
2	C	385	ASN	N-CA-C	-6.18	102.88	110.61
3	L	302	GLU	N-CA-C	-6.18	105.53	114.12
2	C	584	GLU	N-CA-C	-6.18	105.23	112.89
3	D	302	GLU	N-CA-C	-6.18	105.53	114.12
4	V	269	GLU	O-C-N	6.18	128.44	122.07
3	L	70	ASN	N-CA-C	-6.18	103.64	111.92
3	L	751	LEU	O-C-N	-6.17	114.22	121.32
6	O	16	MET	CA-C-N	6.17	128.84	120.38
6	O	16	MET	C-N-CA	6.17	128.84	120.38
4	V	548	LEU	N-CA-C	-6.17	104.35	113.61
4	E	433	GLU	CA-C-N	6.17	128.55	120.28
4	E	433	GLU	C-N-CA	6.17	128.55	120.28
6	O	498	GLY	CA-C-N	6.17	133.33	121.54
6	O	498	GLY	C-N-CA	6.17	133.33	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	668	GLN	CA-C-N	6.17	128.46	120.44
3	D	668	GLN	C-N-CA	6.17	128.46	120.44
4	V	366	SER	CA-C-N	6.17	128.54	120.28
4	V	366	SER	C-N-CA	6.17	128.54	120.28
5	F	65	LEU	N-CA-C	-6.17	99.86	109.72
4	M	108	SER	O-C-N	6.17	128.66	122.12
4	E	868	ILE	N-CA-C	6.16	116.34	110.42
5	F	33	ASP	N-CA-C	-6.16	105.40	113.17
4	E	548	LEU	N-CA-C	-6.16	104.37	113.61
2	K	1189	GLY	N-CA-C	-6.16	106.82	115.32
6	G	414	GLU	N-CA-C	-6.16	104.48	111.07
2	K	808	TRP	CA-C-O	-6.16	114.53	119.71
3	L	39	VAL	N-CA-C	-6.16	99.36	108.85
5	N	55	THR	N-CA-C	-6.16	97.68	110.80
4	E	151	LYS	N-CA-C	-6.16	105.41	113.17
5	W	65	LEU	N-CA-C	-6.16	99.87	109.72
2	C	363	PHE	N-CA-C	-6.16	102.68	108.22
6	O	168	HIS	CA-C-O	-6.16	111.98	119.43
6	G	430	ARG	CA-C-N	6.15	132.47	123.12
6	G	430	ARG	C-N-CA	6.15	132.47	123.12
5	N	65	LEU	N-CA-C	-6.15	99.87	109.72
6	O	430	ARG	CA-C-N	6.15	132.47	123.12
6	O	430	ARG	C-N-CA	6.15	132.47	123.12
4	V	433	GLU	CA-C-N	6.15	128.52	120.28
4	V	433	GLU	C-N-CA	6.15	128.52	120.28
6	G	153	ARG	CA-C-N	6.15	128.44	120.44
6	G	153	ARG	C-N-CA	6.15	128.44	120.44
3	D	625	LEU	O-C-N	6.15	128.64	122.12
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
6	G	168	HIS	CA-C-O	-6.15	111.99	119.43
6	G	498	GLY	CA-C-N	6.15	133.28	121.54
6	G	498	GLY	C-N-CA	6.15	133.28	121.54
4	V	837	GLY	CA-C-O	6.15	126.13	119.06
5	W	55	THR	N-CA-C	-6.15	97.71	110.80
2	K	317	PHE	CA-C-N	6.14	131.48	123.00
2	K	317	PHE	C-N-CA	6.14	131.48	123.00
4	M	151	LYS	N-CA-C	-6.14	105.43	113.17
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
7	H	373	PHE	CA-C-N	-6.14	115.85	122.85
7	H	373	PHE	C-N-CA	-6.14	115.85	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	55	THR	N-CA-C	-6.14	97.73	110.80
7	H	92	GLU	N-CA-C	-6.14	104.67	111.36
6	O	115	PHE	N-CA-C	6.14	117.64	111.07
4	V	868	ILE	N-CA-C	6.13	116.31	110.42
3	L	668	GLN	CA-C-N	6.13	128.41	120.44
3	L	668	GLN	C-N-CA	6.13	128.41	120.44
2	C	317	PHE	CA-C-N	6.13	131.46	123.00
2	C	317	PHE	C-N-CA	6.13	131.46	123.00
3	D	39	VAL	N-CA-C	-6.13	99.41	108.85
4	M	269	GLU	O-C-N	6.13	128.38	122.07
6	O	19	GLU	O-C-N	-6.13	116.36	121.44
2	C	359	SER	N-CA-C	6.12	118.43	108.63
2	C	560	ILE	N-CA-C	-6.12	98.92	107.80
7	H	11	LYS	N-CA-C	-6.12	106.48	112.97
2	K	560	ILE	N-CA-C	-6.12	98.92	107.80
4	M	275	VAL	N-CA-C	6.12	117.60	110.62
4	V	275	VAL	N-CA-C	6.12	117.60	110.62
4	E	867	ASP	CA-C-N	6.12	128.27	120.56
4	E	867	ASP	C-N-CA	6.12	128.27	120.56
4	E	502	ASN	CA-C-N	6.12	128.48	120.28
4	E	502	ASN	C-N-CA	6.12	128.48	120.28
6	G	115	PHE	N-CA-C	6.12	117.62	111.07
6	O	414	GLU	N-CA-C	-6.12	104.52	111.07
6	O	438	ILE	CA-C-N	6.12	128.49	120.60
6	O	438	ILE	C-N-CA	6.12	128.49	120.60
6	G	19	GLU	O-C-N	-6.12	116.36	121.44
4	V	108	SER	O-C-N	6.12	128.60	122.12
4	E	24	LYS	O-C-N	-6.11	115.18	122.15
4	V	151	LYS	N-CA-C	-6.11	105.47	113.17
2	C	150	VAL	N-CA-C	-6.11	99.79	108.65
4	E	108	SER	O-C-N	6.11	128.60	122.12
4	E	275	VAL	N-CA-C	6.11	117.59	110.62
4	M	502	ASN	CA-C-N	6.11	128.47	120.28
4	M	502	ASN	C-N-CA	6.11	128.47	120.28
2	K	359	SER	N-CA-C	6.11	118.40	108.63
3	L	765	GLN	CA-C-N	6.11	129.14	120.53
3	L	765	GLN	C-N-CA	6.11	129.14	120.53
6	O	153	ARG	CA-C-N	6.11	128.38	120.44
6	O	153	ARG	C-N-CA	6.11	128.38	120.44
4	E	180	GLU	CA-C-N	6.11	128.38	120.44
4	E	180	GLU	C-N-CA	6.11	128.38	120.44
4	M	550	GLY	N-CA-C	-6.11	106.00	116.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	899	LEU	N-CA-C	6.11	123.80	110.80
4	V	867	ASP	CA-C-N	6.11	128.25	120.56
4	V	867	ASP	C-N-CA	6.11	128.25	120.56
4	E	550	GLY	N-CA-C	-6.10	106.00	116.01
6	O	55	LEU	CA-C-N	6.10	125.79	119.56
6	O	55	LEU	C-N-CA	6.10	125.79	119.56
3	L	608	LYS	CA-C-N	6.10	130.11	120.47
3	L	608	LYS	C-N-CA	6.10	130.11	120.47
6	G	224	GLN	CA-C-N	6.10	128.45	120.28
6	G	224	GLN	C-N-CA	6.10	128.45	120.28
6	G	438	ILE	CA-C-N	6.10	128.46	120.60
6	G	438	ILE	C-N-CA	6.10	128.46	120.60
4	V	24	LYS	O-C-N	-6.10	115.20	122.15
3	L	625	LEU	O-C-N	6.09	128.58	122.12
6	O	219	PHE	N-CA-C	-6.09	104.56	111.07
6	O	356	LEU	O-C-N	-6.09	115.21	122.15
7	H	374	ILE	CA-C-O	6.09	123.88	119.25
3	D	608	LYS	CA-C-N	6.09	130.09	120.47
3	D	608	LYS	C-N-CA	6.09	130.09	120.47
6	O	224	GLN	CA-C-N	6.09	128.44	120.28
6	O	224	GLN	C-N-CA	6.09	128.44	120.28
4	V	550	GLY	N-CA-C	-6.09	106.03	116.01
2	K	150	VAL	N-CA-C	-6.08	99.83	108.65
6	G	899	LEU	N-CA-C	6.08	123.76	110.80
5	W	109	VAL	CA-C-O	6.08	128.31	120.95
3	D	751	LEU	O-C-N	-6.08	114.33	121.32
5	N	109	VAL	CA-C-O	6.08	128.31	120.95
4	V	502	ASN	CA-C-N	6.08	128.43	120.28
4	V	502	ASN	C-N-CA	6.08	128.43	120.28
4	V	673	THR	N-CA-C	-6.08	99.08	109.24
4	E	673	THR	N-CA-C	-6.08	99.09	109.24
7	P	11	LYS	N-CA-C	-6.08	106.53	112.97
3	D	143	HIS	CA-C-N	6.08	133.15	121.54
3	D	143	HIS	C-N-CA	6.08	133.15	121.54
4	M	24	LYS	O-C-N	-6.08	115.22	122.15
7	P	90	ILE	CA-C-N	6.08	125.76	119.56
7	P	90	ILE	C-N-CA	6.08	125.76	119.56
6	G	126	LYS	N-CA-C	6.08	118.87	111.82
7	H	371	GLU	CA-C-N	-6.08	112.31	122.64
7	H	371	GLU	C-N-CA	-6.08	112.31	122.64
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	356	LEU	O-C-N	-6.07	115.23	122.15
3	D	245	ILE	N-CA-C	-6.07	99.61	108.11
3	D	765	GLN	CA-C-N	6.07	129.09	120.53
3	D	765	GLN	C-N-CA	6.07	129.09	120.53
4	E	86	ARG	N-CA-C	6.07	117.90	111.28
2	K	352	VAL	O-C-N	-6.07	114.98	122.57
5	N	60	ALA	N-CA-C	-6.07	99.17	108.76
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
7	H	90	ILE	CA-C-N	6.07	125.75	119.56
7	H	90	ILE	C-N-CA	6.07	125.75	119.56
4	M	86	ARG	N-CA-C	6.07	117.89	111.28
6	O	217	GLN	N-CA-C	-6.07	98.39	108.34
4	V	86	ARG	N-CA-C	6.07	117.89	111.28
6	G	507	THR	CA-C-N	6.06	132.89	121.97
6	G	507	THR	C-N-CA	6.06	132.89	121.97
6	O	126	LYS	N-CA-C	6.06	118.85	111.82
7	P	29	ILE	CA-C-O	-6.06	114.74	121.17
3	L	245	ILE	N-CA-C	-6.06	99.62	108.11
3	D	710	SER	N-CA-C	6.06	118.85	111.82
2	K	657	ASN	N-CA-C	-6.06	98.54	108.41
4	M	396	VAL	CA-C-N	6.06	128.31	120.44
4	M	396	VAL	C-N-CA	6.06	128.31	120.44
6	O	562	THR	N-CA-C	-6.06	104.68	111.28
5	W	104	MET	CA-C-N	6.06	129.51	120.31
5	W	104	MET	C-N-CA	6.06	129.51	120.31
2	C	352	VAL	O-C-N	-6.05	115.00	122.57
3	D	367	VAL	N-CA-C	-6.05	99.44	108.46
3	D	670	TRP	N-CA-C	6.05	117.96	111.36
4	E	681	MET	N-CA-C	6.05	119.35	109.24
3	L	366	PHE	N-CA-C	-6.05	100.14	109.52
3	L	710	SER	N-CA-C	6.05	118.84	111.82
4	V	396	VAL	CA-C-N	6.05	128.31	120.44
4	V	396	VAL	C-N-CA	6.05	128.31	120.44
2	C	657	ASN	N-CA-C	-6.05	98.54	108.41
5	F	60	ALA	N-CA-C	-6.05	99.20	108.76
6	O	488	ILE	CA-C-N	6.05	129.06	120.53
6	O	488	ILE	C-N-CA	6.05	129.06	120.53
6	G	217	GLN	N-CA-C	-6.05	98.42	108.34
6	G	219	PHE	N-CA-C	-6.05	104.59	111.07
6	G	562	THR	N-CA-C	-6.05	104.69	111.28
3	L	367	VAL	N-CA-C	-6.05	99.45	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	W	60	ALA	N-CA-C	-6.05	99.20	108.76
2	K	85	CYS	CA-C-O	-6.05	114.11	120.58
3	L	143	HIS	CA-C-N	6.05	133.09	121.54
3	L	143	HIS	C-N-CA	6.05	133.09	121.54
4	V	180	GLU	CA-C-N	6.05	128.30	120.44
4	V	180	GLU	C-N-CA	6.05	128.30	120.44
5	F	109	VAL	CA-C-O	6.04	128.26	120.95
6	G	488	ILE	CA-C-N	6.04	129.05	120.53
6	G	488	ILE	C-N-CA	6.04	129.05	120.53
3	L	670	TRP	N-CA-C	6.04	117.95	111.36
6	O	507	THR	CA-C-N	6.04	132.85	121.97
6	O	507	THR	C-N-CA	6.04	132.85	121.97
2	C	85	CYS	CA-C-O	-6.04	114.11	120.58
2	K	228	GLN	CA-C-N	6.04	131.05	123.14
2	K	228	GLN	C-N-CA	6.04	131.05	123.14
3	L	549	GLY	N-CA-C	-6.04	106.83	115.64
4	V	681	MET	N-CA-C	6.04	119.33	109.24
7	H	29	ILE	CA-C-O	-6.04	114.77	121.17
2	C	200	VAL	O-C-N	6.03	130.94	122.97
2	K	200	VAL	O-C-N	6.03	130.93	122.97
3	L	713	ASN	CA-C-N	6.03	128.85	120.29
3	L	713	ASN	C-N-CA	6.03	128.85	120.29
2	C	503	VAL	O-C-N	-6.03	116.13	123.00
2	C	528	ILE	CA-C-N	6.02	129.31	120.82
2	C	528	ILE	C-N-CA	6.02	129.31	120.82
3	D	763	PRO	CA-C-N	6.02	131.13	122.40
3	D	763	PRO	C-N-CA	6.02	131.13	122.40
2	K	528	ILE	CA-C-N	6.02	129.31	120.82
2	K	528	ILE	C-N-CA	6.02	129.31	120.82
3	D	366	PHE	N-CA-C	-6.02	100.19	109.52
5	F	87	GLU	CA-C-O	-6.02	114.17	120.55
4	M	117	GLU	N-CA-C	-6.02	97.98	110.80
5	N	87	GLU	CA-C-O	-6.02	114.17	120.55
5	W	87	GLU	CA-C-O	-6.02	114.17	120.55
6	G	946	ALA	N-CA-C	-6.01	100.44	108.74
3	D	549	GLY	N-CA-C	-6.01	106.86	115.64
5	N	104	MET	CA-C-N	6.01	129.45	120.31
5	N	104	MET	C-N-CA	6.01	129.45	120.31
3	D	713	ASN	CA-C-N	6.01	128.82	120.29
3	D	713	ASN	C-N-CA	6.01	128.82	120.29
6	G	128	LYS	CA-C-N	6.01	129.66	120.82
6	G	128	LYS	C-N-CA	6.01	129.66	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	112	PRO	N-CA-C	-6.01	107.77	114.92
6	O	128	LYS	CA-C-N	6.01	129.66	120.82
6	O	128	LYS	C-N-CA	6.01	129.66	120.82
4	E	117	GLU	N-CA-C	-6.01	98.00	110.80
2	K	531	LYS	N-CA-C	-6.01	104.36	111.03
6	O	766	ASP	N-CA-C	6.00	118.46	110.53
4	V	117	GLU	N-CA-C	-6.00	98.01	110.80
2	C	228	GLN	CA-C-N	6.00	131.00	123.14
2	C	228	GLN	C-N-CA	6.00	131.00	123.14
3	D	112	PRO	N-CA-C	-6.00	107.78	114.92
6	G	578	GLN	CA-C-N	6.00	130.66	122.07
6	G	578	GLN	C-N-CA	6.00	130.66	122.07
6	G	766	ASP	N-CA-C	6.00	118.45	110.53
3	L	9	ARG	O-C-N	-6.00	115.31	122.63
3	L	420	GLU	CA-C-N	6.00	131.63	123.11
3	L	420	GLU	C-N-CA	6.00	131.63	123.11
4	E	222	GLY	N-CA-C	-6.00	98.96	113.18
7	P	64	LEU	CA-C-O	6.00	128.13	121.11
3	D	614	PRO	CA-C-O	-6.00	114.58	121.96
3	L	763	PRO	CA-C-N	6.00	131.09	122.40
3	L	763	PRO	C-N-CA	6.00	131.09	122.40
6	O	232	TYR	N-CA-C	-6.00	106.13	113.50
3	D	323	GLN	N-CA-C	-5.99	101.33	110.14
4	M	129	CYS	CA-C-N	5.99	128.59	120.44
4	M	129	CYS	C-N-CA	5.99	128.59	120.44
4	V	562	LEU	CA-C-O	5.99	126.77	120.42
6	O	946	ALA	N-CA-C	-5.99	100.47	108.74
7	P	101	GLU	CA-C-O	-5.99	113.08	119.97
4	V	215	ILE	N-CA-C	5.99	116.77	110.72
4	V	222	GLY	N-CA-C	-5.99	98.98	113.18
8	X	266	PRO	O-C-N	5.99	123.97	121.15
2	C	531	LYS	N-CA-C	-5.99	104.38	111.03
4	E	129	CYS	CA-C-N	5.99	128.58	120.44
4	E	129	CYS	C-N-CA	5.99	128.58	120.44
7	H	101	GLU	CA-C-O	-5.99	113.08	119.97
3	L	323	GLN	N-CA-C	-5.99	101.34	110.14
5	F	104	MET	CA-C-N	5.99	129.41	120.31
5	F	104	MET	C-N-CA	5.99	129.41	120.31
3	D	75	GLY	N-CA-C	-5.99	99.00	113.18
3	L	75	GLY	N-CA-C	-5.99	98.99	113.18
4	M	562	LEU	CA-C-O	5.98	126.76	120.42
6	O	874	MET	N-CA-C	-5.98	104.84	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	141	GLU	CA-C-O	-5.98	114.50	120.90
3	D	379	THR	CA-C-N	5.98	132.97	121.54
3	D	379	THR	C-N-CA	5.98	132.97	121.54
4	E	141	GLU	CA-C-O	-5.98	114.50	120.90
7	H	64	LEU	CA-C-O	5.98	128.11	121.11
2	K	458	TYR	CA-C-N	5.98	130.22	121.31
2	K	458	TYR	C-N-CA	5.98	130.22	121.31
6	G	232	TYR	N-CA-C	-5.98	106.14	113.50
7	H	310	PHE	CA-C-N	-5.98	115.92	122.38
7	H	310	PHE	C-N-CA	-5.98	115.92	122.38
4	V	267	VAL	O-C-N	-5.98	116.05	121.91
3	L	614	PRO	CA-C-O	-5.98	114.61	121.96
4	M	222	GLY	N-CA-C	-5.98	99.01	113.18
6	O	578	GLN	CA-C-N	5.98	130.62	122.07
6	O	578	GLN	C-N-CA	5.98	130.62	122.07
3	D	420	GLU	CA-C-N	5.98	131.59	123.11
3	D	420	GLU	C-N-CA	5.98	131.59	123.11
6	O	743	ALA	CA-C-O	-5.97	114.12	121.11
4	M	141	GLU	CA-C-O	-5.97	114.51	120.90
4	M	215	ILE	N-CA-C	5.97	116.75	110.72
3	D	37	GLY	N-CA-C	-5.97	107.52	115.40
7	P	121	TYR	CA-C-O	5.96	126.88	120.38
2	C	688	GLN	CA-C-N	5.96	128.88	120.42
2	C	688	GLN	C-N-CA	5.96	128.88	120.42
4	E	562	LEU	CA-C-O	5.96	126.74	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	V	129	CYS	CA-C-N	5.96	128.54	120.44
4	V	129	CYS	C-N-CA	5.96	128.54	120.44
2	K	503	VAL	O-C-N	-5.96	116.21	123.00
4	V	314	VAL	O-C-N	-5.96	116.16	122.83
3	L	434	TYR	N-CA-C	-5.95	99.30	109.24
2	C	458	TYR	CA-C-N	5.95	130.18	121.31
2	C	458	TYR	C-N-CA	5.95	130.18	121.31
6	G	258	PRO	N-CA-C	-5.95	105.77	113.57
5	N	87	GLU	O-C-N	5.95	128.43	122.12
6	G	874	MET	N-CA-C	-5.95	104.88	111.36
7	P	6	ALA	N-CA-C	-5.95	98.70	108.76
7	H	121	TYR	CA-C-O	5.95	126.86	120.38
3	D	9	ARG	O-C-N	-5.95	115.38	122.63
6	O	258	PRO	N-CA-C	-5.94	105.78	113.57
2	C	428	VAL	N-CA-C	-5.94	99.61	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	670	ASP	CA-C-N	5.94	128.72	120.29
2	C	670	ASP	C-N-CA	5.94	128.72	120.29
6	O	568	TYR	CA-C-N	5.94	129.06	120.98
6	O	568	TYR	C-N-CA	5.94	129.06	120.98
4	E	215	ILE	N-CA-C	5.94	116.72	110.72
2	K	160	ARG	N-CA-C	-5.94	99.72	109.40
4	M	267	VAL	O-C-N	-5.94	116.09	121.91
2	C	160	ARG	N-CA-C	-5.93	99.73	109.40
3	D	94	MET	N-CA-C	-5.93	98.97	109.06
3	D	247	GLY	CA-C-O	5.93	126.81	121.47
4	E	267	VAL	O-C-N	-5.93	116.09	121.91
6	G	292	GLU	N-CA-C	-5.93	97.64	108.02
7	H	6	ALA	N-CA-C	-5.93	98.73	108.76
3	D	434	TYR	N-CA-C	-5.93	99.34	109.24
6	G	743	ALA	CA-C-O	-5.93	114.17	121.11
3	L	37	GLY	N-CA-C	-5.93	107.57	115.40
3	L	94	MET	N-CA-C	-5.93	98.98	109.06
4	M	314	VAL	O-C-N	-5.93	116.19	122.83
6	O	829	ARG	CA-C-N	5.93	128.22	120.28
6	O	829	ARG	C-N-CA	5.93	128.22	120.28
5	W	87	GLU	O-C-N	5.93	128.41	122.12
3	L	247	GLY	CA-C-O	5.93	126.81	121.47
4	M	481	VAL	N-CA-C	5.93	116.11	110.42
6	G	568	TYR	CA-C-N	5.93	129.04	120.98
6	G	568	TYR	C-N-CA	5.93	129.04	120.98
6	G	829	ARG	CA-C-N	5.92	128.22	120.28
6	G	829	ARG	C-N-CA	5.92	128.22	120.28
6	G	888	THR	CA-C-N	5.92	132.85	121.54
6	G	888	THR	C-N-CA	5.92	132.85	121.54
6	O	254	GLN	N-CA-C	-5.92	106.06	113.28
3	D	772	LEU	CA-C-O	5.92	126.83	120.55
3	L	452	TRP	N-CA-C	-5.92	105.97	112.72
6	G	366	LYS	CA-C-N	5.92	132.31	122.54
6	G	366	LYS	C-N-CA	5.92	132.31	122.54
4	E	224	LYS	N-CA-C	-5.92	103.39	111.56
5	F	87	GLU	O-C-N	5.92	128.39	122.12
6	G	926	ILE	O-C-N	5.92	129.47	123.20
4	V	796	THR	CA-C-N	5.92	128.69	120.29
4	V	796	THR	C-N-CA	5.92	128.69	120.29
3	L	472	ASP	CA-C-N	5.92	131.13	122.08
3	L	472	ASP	C-N-CA	5.92	131.13	122.08
6	O	134	GLU	CA-C-N	5.92	125.46	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	134	GLU	C-N-CA	5.92	125.46	119.19
4	V	224	LYS	N-CA-C	-5.92	103.39	111.56
6	O	292	GLU	N-CA-C	-5.91	97.67	108.02
6	O	394	PHE	CA-C-O	-5.91	113.64	120.03
6	O	888	THR	CA-C-N	5.91	132.83	121.54
6	O	888	THR	C-N-CA	5.91	132.83	121.54
2	C	475	PHE	O-C-N	5.91	130.51	123.24
2	K	438	LYS	O-C-N	5.91	130.19	123.27
4	M	524	VAL	CA-C-N	5.91	128.48	120.44
4	M	524	VAL	C-N-CA	5.91	128.48	120.44
5	W	115	LEU	CA-C-N	5.91	128.20	120.28
5	W	115	LEU	C-N-CA	5.91	128.20	120.28
3	D	218	ASN	O-C-N	5.91	130.75	122.36
3	D	472	ASP	CA-C-N	5.91	131.12	122.08
3	D	472	ASP	C-N-CA	5.91	131.12	122.08
4	E	524	VAL	CA-C-N	5.91	128.48	120.44
4	E	524	VAL	C-N-CA	5.91	128.48	120.44
2	K	707	TYR	N-CA-C	5.91	118.50	111.71
4	E	815	ARG	CA-C-N	5.91	132.72	122.56
4	E	815	ARG	C-N-CA	5.91	132.72	122.56
2	K	428	VAL	N-CA-C	-5.91	99.66	108.46
6	O	366	LYS	CA-C-N	5.91	132.29	122.54
6	O	366	LYS	C-N-CA	5.91	132.29	122.54
4	E	314	VAL	O-C-N	-5.90	116.22	122.83
6	G	254	GLN	N-CA-C	-5.90	106.08	113.28
2	K	670	ASP	CA-C-N	5.90	128.67	120.29
2	K	670	ASP	C-N-CA	5.90	128.67	120.29
3	D	452	TRP	N-CA-C	-5.90	105.99	112.72
2	K	688	GLN	CA-C-N	5.90	128.80	120.42
2	K	688	GLN	C-N-CA	5.90	128.80	120.42
4	V	467	ASN	N-CA-C	-5.90	100.35	109.14
6	G	206	LEU	O-C-N	5.90	128.37	122.12
4	V	164	LEU	N-CA-C	-5.90	104.93	111.36
2	K	787	ASP	N-CA-C	-5.90	106.04	113.18
6	O	206	LEU	O-C-N	5.90	128.37	122.12
3	D	455	THR	N-CA-C	5.90	119.32	111.30
4	E	164	LEU	N-CA-C	-5.90	104.93	111.36
4	M	467	ASN	N-CA-C	-5.90	100.35	109.14
2	C	707	TYR	N-CA-C	5.89	118.49	111.71
6	O	751	GLN	CA-C-N	5.89	132.49	123.47
6	O	751	GLN	C-N-CA	5.89	132.49	123.47
2	C	787	ASP	N-CA-C	-5.89	106.05	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	796	THR	CA-C-N	5.89	128.66	120.29
4	E	796	THR	C-N-CA	5.89	128.66	120.29
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
4	V	293	GLN	CA-C-N	5.89	128.44	120.44
4	V	293	GLN	C-N-CA	5.89	128.44	120.44
4	M	224	LYS	N-CA-C	-5.88	103.44	111.56
6	O	150	TYR	CA-C-O	-5.88	114.64	120.70
6	O	926	ILE	O-C-N	5.88	129.44	123.20
4	M	164	LEU	N-CA-C	-5.88	104.95	111.36
3	L	772	LEU	CA-C-O	5.88	126.78	120.55
4	V	829	LEU	N-CA-C	-5.88	99.60	109.07
2	C	438	LYS	O-C-N	5.88	130.15	123.27
6	G	751	GLN	CA-C-N	5.88	132.47	123.47
6	G	751	GLN	C-N-CA	5.88	132.47	123.47
7	H	476	LYS	CA-C-N	-5.88	114.89	123.00
7	H	476	LYS	C-N-CA	-5.88	114.89	123.00
2	K	605	ASN	CA-C-N	5.88	131.17	122.82
2	K	605	ASN	C-N-CA	5.88	131.17	122.82
4	M	531	TYR	CA-C-N	5.88	128.08	120.44
4	M	531	TYR	C-N-CA	5.88	128.08	120.44
4	V	524	VAL	CA-C-N	5.88	128.44	120.44
4	V	524	VAL	C-N-CA	5.88	128.44	120.44
4	V	749	ASP	N-CA-C	-5.88	100.14	109.07
4	V	729	LYS	CA-C-O	5.88	127.05	120.70
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
3	L	455	THR	N-CA-C	5.87	119.29	111.30
4	V	815	ARG	CA-C-N	5.87	132.66	122.56
4	V	815	ARG	C-N-CA	5.87	132.66	122.56
4	E	531	TYR	CA-C-N	5.87	128.07	120.44
4	E	531	TYR	C-N-CA	5.87	128.07	120.44
6	G	316	ARG	CA-C-N	5.87	132.27	121.70
6	G	316	ARG	C-N-CA	5.87	132.27	121.70
6	G	394	PHE	CA-C-O	-5.87	113.69	120.03
6	O	302	LEU	O-C-N	5.87	130.40	122.59
8	Z	266	PRO	O-C-N	5.87	123.91	121.15
7	H	116	ILE	CA-C-N	-5.87	114.65	122.98
7	H	116	ILE	C-N-CA	-5.87	114.65	122.98
6	O	512	GLN	N-CA-C	5.87	117.68	111.28
3	D	344	ALA	CA-C-N	5.87	128.36	120.50
3	D	344	ALA	C-N-CA	5.87	128.36	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	218	ASN	O-C-N	5.87	130.69	122.36
6	O	316	ARG	CA-C-N	5.87	132.26	121.70
6	O	316	ARG	C-N-CA	5.87	132.26	121.70
3	L	551	ILE	N-CA-C	-5.87	99.90	108.11
4	E	467	ASN	N-CA-C	-5.86	100.40	109.14
4	E	481	VAL	N-CA-C	5.86	116.05	110.42
4	E	729	LYS	CA-C-O	5.86	127.03	120.70
4	E	829	LEU	N-CA-C	-5.86	99.64	109.07
2	K	684	GLN	CA-C-N	5.86	132.90	121.41
2	K	684	GLN	C-N-CA	5.86	132.90	121.41
5	N	115	LEU	CA-C-N	5.86	128.13	120.28
5	N	115	LEU	C-N-CA	5.86	128.13	120.28
3	L	595	GLN	CA-C-N	5.86	128.06	120.44
3	L	595	GLN	C-N-CA	5.86	128.06	120.44
4	M	377	VAL	N-CA-C	-5.86	104.80	110.72
3	D	406	ARG	O-C-N	5.86	130.06	123.27
3	D	551	ILE	N-CA-C	-5.86	99.91	108.11
4	E	749	ASP	N-CA-C	-5.86	100.17	109.07
4	V	377	VAL	N-CA-C	-5.86	104.81	110.72
4	V	481	VAL	N-CA-C	5.85	116.04	110.42
3	D	393	GLU	N-CA-C	-5.85	100.16	109.23
4	E	293	GLN	CA-C-N	5.85	128.40	120.44
4	E	293	GLN	C-N-CA	5.85	128.40	120.44
4	E	377	VAL	N-CA-C	-5.85	104.81	110.72
2	K	297	LEU	CA-C-O	-5.85	114.79	121.40
3	L	32	ALA	N-CA-C	-5.85	99.47	109.24
4	E	234	ARG	N-CA-C	5.85	117.66	111.28
6	G	134	GLU	CA-C-N	5.85	125.39	119.19
6	G	134	GLU	C-N-CA	5.85	125.39	119.19
2	K	759	TYR	CA-C-O	-5.85	114.67	120.70
4	V	531	TYR	CA-C-N	5.85	128.05	120.44
4	V	531	TYR	C-N-CA	5.85	128.05	120.44
2	C	76	LYS	N-CA-C	-5.85	100.26	109.50
2	C	688	GLN	N-CA-C	-5.85	104.81	111.07
6	G	128	LYS	O-C-N	5.85	129.36	122.34
3	L	393	GLU	N-CA-C	-5.84	100.17	109.23
4	M	293	GLN	CA-C-N	5.84	128.39	120.44
4	M	293	GLN	C-N-CA	5.84	128.39	120.44
3	L	625	LEU	CA-C-N	5.84	128.11	120.28
3	L	625	LEU	C-N-CA	5.84	128.11	120.28
3	D	32	ALA	N-CA-C	-5.84	99.48	109.24
3	D	595	GLN	CA-C-N	5.84	128.03	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	595	GLN	C-N-CA	5.84	128.03	120.44
4	E	283	LYS	CA-C-N	5.84	129.19	120.31
4	E	283	LYS	C-N-CA	5.84	129.19	120.31
6	O	214	ASP	CA-C-O	-5.84	114.88	120.90
6	O	360	LEU	N-CA-C	5.84	117.65	111.28
2	C	684	GLN	CA-C-N	5.84	132.86	121.41
2	C	684	GLN	C-N-CA	5.84	132.86	121.41
2	C	759	TYR	CA-C-O	-5.84	114.69	120.70
2	K	475	PHE	O-C-N	5.84	130.42	123.24
2	K	934	GLY	N-CA-C	-5.84	107.03	115.27
7	P	116	ILE	CA-C-N	-5.84	114.69	122.98
7	P	116	ILE	C-N-CA	-5.84	114.69	122.98
3	D	744	LEU	CA-C-N	5.84	128.58	120.29
3	D	744	LEU	C-N-CA	5.84	128.58	120.29
2	K	76	LYS	N-CA-C	-5.84	100.28	109.50
3	L	406	ARG	O-C-N	5.84	130.04	123.27
4	M	357	ILE	CA-C-N	5.84	128.03	120.44
4	M	357	ILE	C-N-CA	5.84	128.03	120.44
4	V	315	ALA	CA-C-N	5.83	131.84	121.75
4	V	315	ALA	C-N-CA	5.83	131.84	121.75
6	G	512	GLN	N-CA-C	5.83	117.64	111.28
4	E	365	SER	CA-C-N	5.83	128.57	120.29
4	E	365	SER	C-N-CA	5.83	128.57	120.29
2	K	451	PRO	CA-C-O	-5.83	114.66	121.95
4	M	283	LYS	CA-C-N	5.83	129.17	120.31
4	M	283	LYS	C-N-CA	5.83	129.17	120.31
4	M	315	ALA	CA-C-N	5.83	131.84	121.75
4	M	315	ALA	C-N-CA	5.83	131.84	121.75
4	V	283	LYS	CA-C-N	5.83	129.17	120.31
4	V	283	LYS	C-N-CA	5.83	129.17	120.31
2	C	100	PHE	O-C-N	-5.83	116.51	123.27
4	E	459	LEU	CA-C-N	5.83	126.41	119.94
4	E	459	LEU	C-N-CA	5.83	126.41	119.94
3	L	414	ILE	N-CA-C	-5.83	100.09	108.48
6	O	128	LYS	O-C-N	5.83	129.33	122.34
3	D	414	ILE	N-CA-C	-5.83	100.09	108.48
6	O	587	LEU	CA-C-N	5.83	128.67	120.28
6	O	587	LEU	C-N-CA	5.83	128.67	120.28
5	F	115	LEU	CA-C-N	5.82	128.08	120.28
5	F	115	LEU	C-N-CA	5.82	128.08	120.28
2	K	688	GLN	N-CA-C	-5.82	104.84	111.07
2	C	934	GLY	N-CA-C	-5.82	107.06	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	344	ALA	CA-C-O	-5.82	113.45	120.32
6	G	216	VAL	CA-C-N	5.82	130.98	122.77
6	G	216	VAL	C-N-CA	5.82	130.98	122.77
6	G	196	MET	N-CA-C	-5.82	95.99	107.69
6	O	149	SER	CA-C-N	5.82	128.35	120.44
6	O	149	SER	C-N-CA	5.82	128.35	120.44
7	P	76	ILE	N-CA-C	5.82	116.01	110.42
4	V	234	ARG	N-CA-C	5.82	117.62	111.28
4	V	365	SER	CA-C-N	5.82	128.55	120.29
4	V	365	SER	C-N-CA	5.82	128.55	120.29
3	D	416	LYS	O-C-N	-5.82	116.50	123.31
3	D	625	LEU	CA-C-N	5.82	128.07	120.28
3	D	625	LEU	C-N-CA	5.82	128.07	120.28
4	E	315	ALA	CA-C-N	5.82	131.81	121.75
4	E	315	ALA	C-N-CA	5.82	131.81	121.75
3	L	344	ALA	CA-C-O	-5.82	113.46	120.32
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
4	M	306	ALA	CA-C-N	5.81	128.00	120.44
4	M	306	ALA	C-N-CA	5.81	128.00	120.44
4	V	459	LEU	CA-C-N	5.81	126.39	119.94
4	V	459	LEU	C-N-CA	5.81	126.39	119.94
4	E	357	ILE	CA-C-N	5.81	127.99	120.44
4	E	357	ILE	C-N-CA	5.81	127.99	120.44
2	C	344	LEU	CA-C-N	5.81	132.63	121.54
2	C	344	LEU	C-N-CA	5.81	132.63	121.54
4	V	306	ALA	CA-C-N	5.81	127.99	120.44
4	V	306	ALA	C-N-CA	5.81	127.99	120.44
3	L	618	ARG	N-CA-C	5.81	117.61	111.28
2	C	297	LEU	CA-C-O	-5.80	114.84	121.40
3	L	475	GLU	N-CA-C	-5.80	106.74	113.88
4	V	344	ALA	CA-C-O	-5.80	114.40	120.55
2	C	613	HIS	CA-C-N	5.80	128.63	120.28
2	C	613	HIS	C-N-CA	5.80	128.63	120.28
4	E	344	ALA	CA-C-O	-5.80	114.40	120.55
6	G	360	LEU	N-CA-C	5.80	117.60	111.28
4	M	234	ARG	N-CA-C	5.80	117.60	111.28
6	O	54	LYS	N-CA-C	5.80	118.77	110.24
2	K	344	LEU	CA-C-N	5.80	132.62	121.54
2	K	344	LEU	C-N-CA	5.80	132.62	121.54
3	D	618	ARG	CA-C-N	5.80	128.05	120.28
3	D	618	ARG	C-N-CA	5.80	128.05	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	306	ALA	CA-C-N	5.80	127.97	120.44
4	E	306	ALA	C-N-CA	5.80	127.97	120.44
6	G	54	LYS	N-CA-C	5.80	118.76	110.24
6	G	214	ASP	CA-C-O	-5.80	114.93	120.90
6	G	924	VAL	N-CA-C	-5.80	100.05	108.17
4	M	349	LEU	CA-C-N	5.80	128.52	120.29
4	M	349	LEU	C-N-CA	5.80	128.52	120.29
4	M	365	SER	CA-C-N	5.79	128.52	120.29
4	M	365	SER	C-N-CA	5.79	128.52	120.29
6	O	216	VAL	CA-C-N	5.79	130.94	122.77
6	O	216	VAL	C-N-CA	5.79	130.94	122.77
3	D	614	PRO	CA-C-N	5.79	132.60	121.54
3	D	614	PRO	C-N-CA	5.79	132.60	121.54
3	D	618	ARG	N-CA-C	5.79	117.59	111.28
4	E	106	THR	CA-C-N	5.79	127.97	120.44
4	E	106	THR	C-N-CA	5.79	127.97	120.44
4	E	511	VAL	CA-C-N	5.79	128.32	120.44
4	E	511	VAL	C-N-CA	5.79	128.32	120.44
4	M	310	THR	N-CA-C	-5.79	98.46	110.80
3	L	744	LEU	CA-C-N	5.79	128.51	120.29
3	L	744	LEU	C-N-CA	5.79	128.51	120.29
4	V	310	THR	N-CA-C	-5.79	98.47	110.80
4	V	357	ILE	CA-C-N	5.79	127.96	120.44
4	V	357	ILE	C-N-CA	5.79	127.96	120.44
4	V	810	MET	O-C-N	5.79	130.33	123.27
3	D	475	GLU	N-CA-C	-5.79	106.76	113.88
2	K	100	PHE	O-C-N	-5.79	116.56	123.27
3	L	350	SER	N-CA-C	5.79	123.13	110.80
4	E	310	THR	N-CA-C	-5.78	98.48	110.80
3	L	416	LYS	O-C-N	-5.78	116.54	123.31
2	C	451	PRO	CA-C-O	-5.78	114.72	121.95
6	O	196	MET	N-CA-C	-5.78	96.07	107.69
4	V	304	ARG	CA-C-O	-5.78	113.57	120.10
4	V	349	LEU	CA-C-N	5.78	128.50	120.29
4	V	349	LEU	C-N-CA	5.78	128.50	120.29
4	V	655	PHE	CA-C-N	5.78	128.60	120.28
4	V	655	PHE	C-N-CA	5.78	128.60	120.28
6	G	302	LEU	O-C-N	5.78	130.28	122.59
3	L	614	PRO	CA-C-N	5.78	132.58	121.54
3	L	614	PRO	C-N-CA	5.78	132.58	121.54
3	D	542	ARG	N-CA-C	-5.78	100.77	109.95
4	E	624	GLN	N-CA-C	-5.78	106.58	113.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	103	GLN	CA-C-N	5.78	127.95	120.44
5	F	103	GLN	C-N-CA	5.78	127.95	120.44
2	K	316	VAL	N-CA-C	-5.78	100.08	108.17
4	E	349	LEU	CA-C-N	5.77	128.49	120.29
4	E	349	LEU	C-N-CA	5.77	128.49	120.29
4	M	304	ARG	CA-C-O	-5.77	113.58	120.10
3	L	542	ARG	N-CA-C	-5.77	100.77	109.95
4	E	655	PHE	CA-C-N	5.77	128.59	120.28
4	E	655	PHE	C-N-CA	5.77	128.59	120.28
4	E	810	MET	O-C-N	5.77	130.31	123.27
3	D	350	SER	N-CA-C	5.77	123.08	110.80
2	K	53	PRO	CA-C-N	5.77	130.77	123.10
2	K	53	PRO	C-N-CA	5.77	130.77	123.10
2	K	613	HIS	CA-C-N	5.77	128.59	120.28
2	K	613	HIS	C-N-CA	5.77	128.59	120.28
5	W	103	GLN	CA-C-N	5.77	127.94	120.44
5	W	103	GLN	C-N-CA	5.77	127.94	120.44
4	M	106	THR	CA-C-N	5.76	127.93	120.44
4	M	106	THR	C-N-CA	5.76	127.93	120.44
4	V	645	GLU	N-CA-C	-5.76	104.23	112.13
4	V	653	HIS	CA-C-O	-5.76	114.48	120.70
3	D	294	SER	N-CA-C	-5.76	100.54	109.24
4	E	793	THR	N-CA-C	-5.76	105.84	112.92
4	V	511	VAL	CA-C-N	5.76	128.27	120.44
4	V	511	VAL	C-N-CA	5.76	128.27	120.44
4	E	653	HIS	CA-C-O	-5.75	114.48	120.70
4	V	624	GLN	N-CA-C	-5.75	106.60	113.97
6	G	55	LEU	O-C-N	-5.75	114.70	121.32
6	O	521	TYR	N-CA-C	-5.75	105.01	111.28
2	C	53	PRO	CA-C-N	5.75	130.75	123.10
2	C	53	PRO	C-N-CA	5.75	130.75	123.10
3	L	294	SER	N-CA-C	-5.75	100.56	109.24
3	L	618	ARG	CA-C-N	5.75	127.98	120.28
3	L	618	ARG	C-N-CA	5.75	127.98	120.28
4	E	645	GLU	N-CA-C	-5.75	104.26	112.13
4	M	344	ALA	CA-C-O	-5.75	114.46	120.55
2	C	316	VAL	N-CA-C	-5.74	100.13	108.17
7	H	76	ILE	N-CA-C	5.74	115.94	110.42
4	M	511	VAL	CA-C-N	5.74	128.25	120.44
4	M	511	VAL	C-N-CA	5.74	128.25	120.44
4	V	793	THR	N-CA-C	-5.74	105.86	112.92
4	E	697	SER	O-C-N	-5.74	116.69	123.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	103	GLN	CA-C-N	5.74	127.90	120.44
5	N	103	GLN	C-N-CA	5.74	127.90	120.44
4	E	304	ARG	CA-C-O	-5.74	113.62	120.10
2	C	662	LEU	O-C-N	5.73	128.20	122.12
5	F	118	MET	CA-C-N	5.73	127.89	120.44
5	F	118	MET	C-N-CA	5.73	127.89	120.44
2	K	662	LEU	O-C-N	5.73	128.20	122.12
6	O	924	VAL	N-CA-C	-5.73	100.15	108.17
4	V	106	THR	CA-C-N	5.73	127.89	120.44
4	V	106	THR	C-N-CA	5.73	127.89	120.44
2	C	417	THR	N-CA-C	-5.72	100.59	109.24
4	E	400	PHE	CA-C-N	5.72	127.95	120.28
4	E	400	PHE	C-N-CA	5.72	127.95	120.28
6	G	521	TYR	N-CA-C	-5.72	105.04	111.28
4	V	162	SER	CA-C-N	5.72	127.94	120.28
4	V	162	SER	C-N-CA	5.72	127.94	120.28
4	V	602	PRO	CA-C-N	5.72	132.42	122.81
4	V	602	PRO	C-N-CA	5.72	132.42	122.81
3	D	697	GLY	CA-C-N	5.72	126.29	120.00
3	D	697	GLY	C-N-CA	5.72	126.29	120.00
6	O	248	CYS	CA-C-N	5.72	128.54	120.42
6	O	248	CYS	C-N-CA	5.72	128.54	120.42
2	K	417	THR	N-CA-C	-5.72	100.61	109.24
5	W	118	MET	CA-C-N	5.72	127.87	120.44
5	W	118	MET	C-N-CA	5.72	127.87	120.44
4	M	162	SER	CA-C-N	5.71	127.94	120.28
4	M	162	SER	C-N-CA	5.71	127.94	120.28
3	D	205	GLY	N-CA-C	-5.71	102.07	111.38
3	D	762	LEU	N-CA-C	5.71	122.43	109.81
2	C	184	ILE	CA-C-N	5.71	129.47	121.02
2	C	184	ILE	C-N-CA	5.71	129.47	121.02
4	V	832	GLY	N-CA-C	-5.71	102.35	110.63
3	L	697	GLY	CA-C-N	5.71	126.28	120.00
3	L	697	GLY	C-N-CA	5.71	126.28	120.00
3	L	762	LEU	N-CA-C	5.70	122.42	109.81
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
4	M	141	GLU	N-CA-C	5.70	117.95	111.11
6	G	248	CYS	CA-C-N	5.70	128.51	120.42
6	G	248	CYS	C-N-CA	5.70	128.51	120.42
6	G	395	PRO	O-C-N	5.70	129.35	122.23
6	O	325	ILE	O-C-N	-5.70	116.34	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	481	THR	CA-C-O	-5.70	115.17	121.33
3	L	205	GLY	N-CA-C	-5.70	102.10	111.38
4	E	832	GLY	N-CA-C	-5.69	102.38	110.63
4	V	424	ILE	O-C-N	5.69	127.39	121.87
6	G	361	LYS	CA-C-N	5.69	128.37	120.29
6	G	361	LYS	C-N-CA	5.69	128.37	120.29
6	O	55	LEU	O-C-N	-5.69	114.78	121.32
7	P	61	MET	N-CA-C	-5.69	97.95	107.80
6	G	379	TYR	CA-C-O	5.69	126.58	120.55
4	V	697	SER	O-C-N	-5.69	116.75	123.41
7	H	61	MET	N-CA-C	-5.69	97.96	107.80
4	V	632	SER	CA-C-N	5.69	129.30	120.60
4	V	632	SER	C-N-CA	5.69	129.30	120.60
3	D	481	THR	CA-C-O	-5.68	115.19	121.33
4	E	162	SER	CA-C-N	5.68	127.90	120.28
4	E	162	SER	C-N-CA	5.68	127.90	120.28
2	C	313	GLY	N-CA-C	-5.68	102.91	110.58
2	K	313	GLY	N-CA-C	-5.68	102.91	110.58
7	P	29	ILE	O-C-N	5.68	127.48	121.91
6	G	325	ILE	O-C-N	-5.68	116.36	121.87
6	G	787	PRO	N-CA-C	-5.68	102.27	111.19
6	G	842	MET	CA-C-N	5.68	127.89	120.28
6	G	842	MET	C-N-CA	5.68	127.89	120.28
6	O	787	PRO	N-CA-C	-5.68	102.27	111.19
2	K	184	ILE	CA-C-N	5.68	129.42	121.02
2	K	184	ILE	C-N-CA	5.68	129.42	121.02
6	O	379	TYR	CA-C-O	5.68	126.57	120.55
4	E	635	GLU	CA-C-N	5.68	125.44	119.76
4	E	635	GLU	C-N-CA	5.68	125.44	119.76
2	K	667	ALA	CA-C-N	5.68	132.08	122.26
2	K	667	ALA	C-N-CA	5.68	132.08	122.26
4	M	133	ASP	N-CA-C	-5.68	100.68	109.14
4	E	602	PRO	CA-C-N	5.67	132.34	122.81
4	E	602	PRO	C-N-CA	5.67	132.34	122.81
4	E	632	SER	CA-C-N	5.67	129.28	120.60
4	E	632	SER	C-N-CA	5.67	129.28	120.60
4	V	133	ASP	N-CA-C	-5.67	100.69	109.14
4	M	400	PHE	CA-C-N	5.67	127.88	120.28
4	M	400	PHE	C-N-CA	5.67	127.88	120.28
6	G	149	SER	CA-C-N	5.67	128.34	120.29
6	G	149	SER	C-N-CA	5.67	128.34	120.29
6	O	395	PRO	O-C-N	5.67	129.32	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	667	ALA	CA-C-N	5.67	132.06	122.26
2	C	667	ALA	C-N-CA	5.67	132.06	122.26
4	E	424	ILE	O-C-N	5.67	127.37	121.87
3	L	658	TYR	CA-C-N	5.67	127.87	120.28
3	L	658	TYR	C-N-CA	5.67	127.87	120.28
4	V	141	GLU	N-CA-C	5.67	117.91	111.11
5	F	140	GLN	CA-C-O	5.67	126.42	120.42
7	H	349	PRO	N-CA-C	-5.66	102.37	111.38
4	E	141	GLU	N-CA-C	5.66	117.90	111.11
4	M	424	ILE	O-C-N	5.66	127.36	121.87
6	O	361	LYS	CA-C-N	5.66	128.33	120.29
6	O	361	LYS	C-N-CA	5.66	128.33	120.29
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
4	V	400	PHE	CA-C-N	5.66	127.87	120.28
4	V	400	PHE	C-N-CA	5.66	127.87	120.28
2	C	359	SER	CA-C-O	-5.66	114.51	121.02
4	V	420	CYS	CA-C-O	-5.66	114.88	120.82
4	V	633	SER	O-C-N	5.66	127.77	121.43
3	L	577	ASP	CA-C-N	5.66	130.30	120.68
3	L	577	ASP	C-N-CA	5.66	130.30	120.68
5	N	140	GLN	CA-C-O	5.66	126.42	120.42
6	O	274	ALA	CA-C-O	-5.66	114.14	119.80
4	E	170	SER	CA-C-N	5.65	128.13	120.44
4	E	170	SER	C-N-CA	5.65	128.13	120.44
2	C	450	VAL	CA-C-N	5.65	125.97	119.92
2	C	450	VAL	C-N-CA	5.65	125.97	119.92
3	D	658	TYR	CA-C-N	5.65	127.86	120.28
3	D	658	TYR	C-N-CA	5.65	127.86	120.28
6	O	120	THR	N-CA-C	-5.65	105.20	111.36
4	V	160	LEU	CA-C-N	5.65	128.44	120.42
4	V	160	LEU	C-N-CA	5.65	128.44	120.42
6	G	288	LEU	O-C-N	5.65	127.89	122.07
4	V	170	SER	CA-C-N	5.65	128.12	120.44
4	V	170	SER	C-N-CA	5.65	128.12	120.44
3	D	577	ASP	CA-C-N	5.64	130.28	120.68
3	D	577	ASP	C-N-CA	5.64	130.28	120.68
2	C	330	GLY	O-C-N	5.64	130.03	122.70
3	D	681	CYS	N-CA-C	-5.64	106.34	113.23
4	E	133	ASP	N-CA-C	-5.64	100.73	109.14
2	K	359	SER	CA-C-O	-5.64	114.53	121.02
4	M	170	SER	CA-C-N	5.64	128.12	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	170	SER	C-N-CA	5.64	128.12	120.44
4	V	326	ASN	CA-C-N	5.64	128.11	120.44
4	V	326	ASN	C-N-CA	5.64	128.11	120.44
6	G	274	ALA	CA-C-O	-5.64	114.16	119.80
3	L	681	CYS	N-CA-C	-5.64	106.35	113.23
2	K	161	VAL	N-CA-C	-5.64	100.28	108.17
2	K	450	VAL	CA-C-N	5.64	125.95	119.92
2	K	450	VAL	C-N-CA	5.64	125.95	119.92
4	M	326	ASN	CA-C-N	5.64	128.10	120.44
4	M	326	ASN	C-N-CA	5.64	128.10	120.44
6	O	534	LYS	CA-C-O	-5.64	115.20	121.51
5	W	45	GLU	CA-C-N	5.64	127.83	120.28
5	W	45	GLU	C-N-CA	5.64	127.83	120.28
2	K	418	ALA	N-CA-C	-5.63	99.11	108.75
4	M	160	LEU	CA-C-N	5.63	128.42	120.42
4	M	160	LEU	C-N-CA	5.63	128.42	120.42
2	C	418	ALA	N-CA-C	-5.63	99.12	108.75
2	C	309	GLY	CA-C-O	-5.63	115.80	120.92
6	G	284	CYS	O-C-N	5.63	127.87	122.07
6	O	743	ALA	O-C-N	5.63	130.17	123.24
4	E	795	LYS	CA-C-O	-5.63	112.97	119.56
4	E	695	ALA	N-CA-C	-5.63	100.12	109.46
6	G	120	THR	N-CA-C	-5.63	105.23	111.36
6	G	595	LEU	N-CA-C	-5.62	104.77	111.69
4	V	635	GLU	CA-C-N	5.62	125.39	119.76
4	V	635	GLU	C-N-CA	5.62	125.39	119.76
3	L	614	PRO	O-C-N	5.62	129.47	123.23
6	O	288	LEU	O-C-N	5.62	127.86	122.07
5	W	140	GLN	CA-C-O	5.62	126.38	120.42
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	O	595	LEU	N-CA-C	-5.62	104.78	111.69
3	D	463	ILE	N-CA-C	-5.62	99.55	107.75
4	E	420	CYS	CA-C-O	-5.62	114.92	120.82
2	K	741	ASP	O-C-N	5.62	130.24	123.16
2	C	89	LEU	CA-C-N	5.61	129.89	122.42
2	C	89	LEU	C-N-CA	5.61	129.89	122.42
2	C	741	ASP	O-C-N	5.61	130.23	123.16
6	G	157	LEU	CA-C-O	-5.61	114.47	120.42
3	L	463	ILE	N-CA-C	-5.61	99.56	107.75
4	V	695	ALA	N-CA-C	-5.61	100.15	109.46
4	V	659	LEU	N-CA-C	-5.61	99.87	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	160	LEU	CA-C-N	5.61	128.38	120.42
4	E	160	LEU	C-N-CA	5.61	128.38	120.42
4	M	526	ASP	O-C-N	5.61	127.84	122.07
7	P	44	LYS	N-CA-C	-5.61	104.07	112.54
4	V	795	LYS	CA-C-O	-5.61	113.00	119.56
5	F	45	GLU	CA-C-N	5.61	127.79	120.28
5	F	45	GLU	C-N-CA	5.61	127.79	120.28
6	G	268	LEU	N-CA-C	5.61	118.16	111.71
7	H	46	HIS	CA-C-N	5.61	128.35	120.28
7	H	46	HIS	C-N-CA	5.61	128.35	120.28
4	M	163	SER	CA-C-N	5.61	128.25	120.29
4	M	163	SER	C-N-CA	5.61	128.25	120.29
6	O	284	CYS	O-C-N	5.61	127.84	122.07
7	P	46	HIS	CA-C-N	5.61	128.35	120.28
7	P	46	HIS	C-N-CA	5.61	128.35	120.28
5	W	84	TYR	N-CA-C	-5.61	106.44	113.28
2	C	545	THR	N-CA-C	-5.60	105.40	114.09
2	C	161	VAL	N-CA-C	-5.60	100.33	108.17
2	C	665	ALA	CA-C-N	5.60	127.79	120.28
2	C	665	ALA	C-N-CA	5.60	127.79	120.28
3	D	447	LEU	N-CA-C	-5.60	99.28	108.41
2	K	658	ILE	O-C-N	5.60	127.13	122.09
6	O	488	ILE	N-CA-C	5.60	119.96	111.89
4	V	163	SER	CA-C-N	5.60	128.25	120.29
4	V	163	SER	C-N-CA	5.60	128.25	120.29
4	E	163	SER	CA-C-N	5.60	128.24	120.29
4	E	163	SER	C-N-CA	5.60	128.24	120.29
4	E	410	GLY	O-C-N	5.60	129.98	122.70
6	G	488	ILE	N-CA-C	5.60	119.95	111.89
6	O	268	LEU	N-CA-C	5.60	118.15	111.71
3	D	614	PRO	O-C-N	5.60	129.44	123.23
6	O	191	ARG	N-CA-C	5.60	119.61	112.34
2	C	659	GLU	N-CA-C	-5.59	105.26	111.36
2	K	330	GLY	O-C-N	5.59	129.97	122.70
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
2	K	665	ALA	CA-C-N	5.59	127.77	120.28
2	K	665	ALA	C-N-CA	5.59	127.77	120.28
2	C	756	SER	O-C-N	5.59	127.83	122.07
6	G	534	LYS	CA-C-O	-5.59	115.25	121.51
7	H	63	LYS	N-CA-C	-5.59	106.35	112.72
2	K	545	THR	N-CA-C	-5.59	105.42	114.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	659	GLU	N-CA-C	-5.59	105.27	111.36
7	P	63	LYS	N-CA-C	-5.59	106.34	112.72
4	V	263	HIS	CA-C-N	5.59	127.77	120.28
4	V	263	HIS	C-N-CA	5.59	127.77	120.28
2	C	658	ILE	O-C-N	5.59	127.12	122.09
5	F	84	TYR	N-CA-C	-5.59	106.46	113.28
3	L	447	LEU	N-CA-C	-5.59	99.30	108.41
4	M	263	HIS	CA-C-N	5.59	127.77	120.28
4	M	263	HIS	C-N-CA	5.59	127.77	120.28
5	N	84	TYR	N-CA-C	-5.59	106.46	113.28
6	G	191	ARG	N-CA-C	5.59	119.60	112.34
6	O	855	PHE	CA-C-N	5.59	127.70	120.44
6	O	855	PHE	C-N-CA	5.59	127.70	120.44
7	H	29	ILE	O-C-N	5.59	127.39	121.91
2	K	517	LYS	N-CA-C	-5.59	98.90	110.80
2	C	517	LYS	N-CA-C	-5.58	98.91	110.80
3	D	479	ILE	CA-C-N	5.58	130.43	122.72
3	D	479	ILE	C-N-CA	5.58	130.43	122.72
4	E	633	SER	O-C-N	5.58	127.69	121.43
5	N	45	GLU	CA-C-N	5.58	127.76	120.28
5	N	45	GLU	C-N-CA	5.58	127.76	120.28
6	O	213	ILE	CA-C-N	5.58	128.22	120.63
6	O	213	ILE	C-N-CA	5.58	128.22	120.63
6	G	213	ILE	CA-C-N	5.58	128.22	120.63
6	G	213	ILE	C-N-CA	5.58	128.22	120.63
4	E	263	HIS	CA-C-N	5.58	127.76	120.28
4	E	263	HIS	C-N-CA	5.58	127.76	120.28
2	K	89	LEU	CA-C-N	5.58	129.84	122.42
2	K	89	LEU	C-N-CA	5.58	129.84	122.42
4	E	526	ASP	O-C-N	5.58	127.81	122.07
4	E	65	GLU	O-C-N	5.57	128.50	122.15
4	E	659	LEU	N-CA-C	-5.57	99.93	109.24
4	M	410	GLY	O-C-N	5.57	129.95	122.70
7	P	127	LEU	CA-C-O	-5.57	113.56	119.97
2	K	93	LEU	N-CA-C	-5.57	105.08	112.94
2	C	151	VAL	N-CA-C	-5.57	100.27	108.85
6	G	459	LEU	O-C-N	5.57	128.02	122.12
2	K	756	SER	O-C-N	5.57	127.81	122.07
3	L	395	ALA	N-CA-C	-5.57	99.22	108.75
5	F	134	ILE	CA-C-O	5.57	127.56	121.04
3	L	291	ASP	O-C-N	5.57	128.50	122.15
7	H	44	LYS	N-CA-C	-5.57	104.14	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	309	GLY	CA-C-O	-5.57	115.86	120.92
4	M	420	CYS	CA-C-O	-5.56	114.98	120.82
4	M	444	GLU	N-CA-C	5.56	118.27	111.82
4	V	444	GLU	N-CA-C	5.56	118.27	111.82
2	C	111	ALA	N-CA-C	-5.56	100.64	109.59
5	N	29	LYS	N-CA-C	-5.56	98.86	108.69
5	N	134	ILE	CA-C-O	5.56	127.54	121.04
6	O	157	LEU	CA-C-O	-5.56	114.53	120.42
4	V	634	PRO	N-CA-C	-5.56	107.57	114.68
3	D	154	ASP	N-CA-C	-5.55	98.97	110.80
6	G	743	ALA	O-C-N	5.55	130.07	123.24
3	L	154	ASP	N-CA-C	-5.55	98.97	110.80
6	G	101	VAL	N-CA-C	-5.55	105.23	113.39
2	K	111	ALA	N-CA-C	-5.55	100.65	109.59
3	D	283	SER	CA-C-N	5.55	132.14	121.54
3	D	283	SER	C-N-CA	5.55	132.14	121.54
6	O	782	LYS	CA-C-N	5.55	129.36	121.42
6	O	782	LYS	C-N-CA	5.55	129.36	121.42
6	O	101	VAL	N-CA-C	-5.55	105.23	113.39
6	O	459	LEU	O-C-N	5.55	128.00	122.12
4	V	410	GLY	O-C-N	5.55	129.91	122.70
2	C	750	LYS	O-C-N	5.55	127.78	122.07
3	D	120	ASP	CA-C-N	5.55	131.96	123.47
3	D	120	ASP	C-N-CA	5.55	131.96	123.47
2	C	178	GLU	CA-C-N	5.55	128.72	120.90
2	C	178	GLU	C-N-CA	5.55	128.72	120.90
3	D	395	ALA	N-CA-C	-5.55	99.27	108.75
4	E	542	LEU	CA-C-O	-5.55	114.99	120.70
7	H	127	LEU	CA-C-O	-5.55	113.59	119.97
2	K	367	ASN	N-CA-C	-5.55	100.28	108.99
4	E	606	ALA	CA-C-N	5.54	129.74	120.70
4	E	606	ALA	C-N-CA	5.54	129.74	120.70
2	K	750	LYS	O-C-N	5.54	127.78	122.07
4	M	65	GLU	O-C-N	5.54	128.47	122.15
3	D	770	VAL	O-C-N	-5.54	116.50	121.87
2	C	93	LEU	N-CA-C	-5.54	105.13	112.94
2	C	363	PHE	CA-C-O	-5.54	115.00	120.26
2	C	367	ASN	N-CA-C	-5.54	100.30	108.99
3	L	283	SER	CA-C-N	5.54	132.12	121.54
3	L	283	SER	C-N-CA	5.54	132.12	121.54
4	V	606	ALA	CA-C-N	5.54	129.73	120.70
4	V	606	ALA	C-N-CA	5.54	129.73	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	169	LYS	CA-C-O	-5.54	115.15	121.68
6	O	269	VAL	CA-C-O	-5.54	114.91	121.05
5	W	134	ILE	CA-C-O	5.54	127.52	121.04
4	E	634	PRO	N-CA-C	-5.53	107.60	114.68
6	G	345	LEU	CA-C-N	5.53	128.15	120.29
6	G	345	LEU	C-N-CA	5.53	128.15	120.29
2	K	363	PHE	CA-C-O	-5.53	115.00	120.26
3	L	120	ASP	CA-C-N	5.53	131.94	123.47
3	L	120	ASP	C-N-CA	5.53	131.94	123.47
3	L	479	ILE	CA-C-N	5.53	130.35	122.72
3	L	479	ILE	C-N-CA	5.53	130.35	122.72
3	L	770	VAL	O-C-N	-5.53	116.50	121.87
4	E	444	GLU	N-CA-C	5.53	118.24	111.82
6	G	938	VAL	CA-C-N	5.53	132.10	121.54
6	G	938	VAL	C-N-CA	5.53	132.10	121.54
6	O	490	GLU	CA-C-N	-5.53	113.25	120.44
6	O	490	GLU	C-N-CA	-5.53	113.25	120.44
6	O	938	VAL	CA-C-N	5.53	132.10	121.54
6	O	938	VAL	C-N-CA	5.53	132.10	121.54
5	W	29	LYS	N-CA-C	-5.53	98.90	108.69
2	K	169	LYS	CA-C-O	-5.53	115.16	121.68
3	L	271	MET	CA-C-N	5.53	132.10	121.54
3	L	271	MET	C-N-CA	5.53	132.10	121.54
4	V	526	ASP	O-C-N	5.53	127.76	122.07
2	K	651	LEU	CA-C-N	5.53	127.68	120.28
2	K	651	LEU	C-N-CA	5.53	127.68	120.28
6	O	28	ASN	CA-C-N	5.53	128.71	120.31
6	O	28	ASN	C-N-CA	5.53	128.71	120.31
2	C	685	GLY	O-C-N	5.52	129.88	122.70
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
2	K	178	GLU	CA-C-N	5.52	128.69	120.90
2	K	178	GLU	C-N-CA	5.52	128.69	120.90
4	V	457	HIS	CA-C-N	5.52	127.95	120.44
4	V	457	HIS	C-N-CA	5.52	127.95	120.44
6	G	864	TRP	N-CA-C	-5.52	104.80	112.03
5	F	29	LYS	N-CA-C	-5.52	98.92	108.69
5	W	31	TYR	N-CA-C	-5.52	106.13	112.92
5	F	31	TYR	N-CA-C	-5.52	106.13	112.92
3	L	436	GLY	CA-C-N	5.52	127.93	120.65
3	L	436	GLY	C-N-CA	5.52	127.93	120.65
2	C	205	ASP	N-CA-C	-5.52	99.05	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	590	SER	N-CA-C	5.52	117.29	111.28
4	E	457	HIS	CA-C-N	5.51	127.94	120.44
4	E	457	HIS	C-N-CA	5.51	127.94	120.44
4	M	64	THR	CA-C-N	5.51	128.12	120.29
4	M	64	THR	C-N-CA	5.51	128.12	120.29
6	O	584	GLU	N-CA-C	-5.51	99.92	108.90
6	O	785	GLU	O-C-N	-5.51	115.26	122.59
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	G	490	GLU	CA-C-N	-5.51	113.28	120.44
6	G	490	GLU	C-N-CA	-5.51	113.28	120.44
6	G	785	GLU	O-C-N	-5.51	115.26	122.59
6	O	864	TRP	N-CA-C	-5.51	104.81	112.03
2	K	205	ASP	N-CA-C	-5.51	99.07	110.80
3	L	728	ALA	N-CA-C	5.50	117.28	111.28
2	C	373	ALA	CA-C-N	5.50	132.04	121.54
2	C	373	ALA	C-N-CA	5.50	132.04	121.54
6	G	269	VAL	CA-C-O	-5.50	114.95	121.05
4	E	337	ASN	CA-C-N	-5.50	112.48	120.29
4	E	337	ASN	C-N-CA	-5.50	112.48	120.29
6	G	181	LEU	N-CA-C	-5.50	99.09	110.80
2	K	373	ALA	CA-C-N	5.50	132.04	121.54
2	K	373	ALA	C-N-CA	5.50	132.04	121.54
5	W	68	VAL	CA-C-O	5.50	126.16	120.39
3	D	728	ALA	N-CA-C	5.50	117.27	111.28
5	F	68	VAL	CA-C-O	5.50	126.16	120.39
4	E	64	THR	CA-C-N	5.49	128.09	120.29
4	E	64	THR	C-N-CA	5.49	128.09	120.29
6	G	415	ALA	CA-C-N	5.49	127.64	120.28
6	G	415	ALA	C-N-CA	5.49	127.64	120.28
4	E	538	LYS	CA-C-N	5.49	127.64	120.28
4	E	538	LYS	C-N-CA	5.49	127.64	120.28
3	D	590	SER	N-CA-C	5.49	117.27	111.28
3	D	620	ARG	N-CA-C	5.49	117.07	111.14
2	K	669	ASP	O-C-N	5.49	129.17	122.58
3	L	574	TYR	N-CA-C	-5.49	100.23	109.07
6	O	181	LEU	N-CA-C	-5.49	99.10	110.80
4	V	64	THR	CA-C-N	5.49	128.09	120.29
4	V	64	THR	C-N-CA	5.49	128.09	120.29
4	M	513	LEU	N-CA-C	5.49	118.19	111.82
5	N	31	TYR	N-CA-C	-5.49	106.17	112.92
4	V	65	GLU	O-C-N	5.49	128.41	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	574	TYR	N-CA-C	-5.49	100.23	109.07
6	G	584	GLU	N-CA-C	-5.49	99.96	108.90
2	K	685	GLY	O-C-N	5.49	129.83	122.70
3	D	271	MET	CA-C-N	5.49	132.02	121.54
3	D	271	MET	C-N-CA	5.49	132.02	121.54
6	G	28	ASN	CA-C-N	5.49	128.65	120.31
6	G	28	ASN	C-N-CA	5.49	128.65	120.31
2	K	234	MET	N-CA-C	-5.49	106.26	113.17
3	L	416	LYS	N-CA-C	-5.49	99.49	108.76
6	O	345	LEU	CA-C-N	5.49	128.08	120.29
6	O	345	LEU	C-N-CA	5.49	128.08	120.29
7	P	75	ASN	CA-C-N	5.49	127.47	120.56
7	P	75	ASN	C-N-CA	5.49	127.47	120.56
4	E	196	ALA	CA-C-N	5.48	128.07	120.29
4	E	196	ALA	C-N-CA	5.48	128.07	120.29
7	H	75	ASN	CA-C-N	5.48	127.47	120.56
7	H	75	ASN	C-N-CA	5.48	127.47	120.56
4	V	81	ASP	CA-C-N	5.48	124.83	118.85
4	V	81	ASP	C-N-CA	5.48	124.83	118.85
2	C	300	HIS	O-C-N	-5.48	115.61	121.42
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
4	V	159	ALA	CA-C-N	5.48	127.56	120.44
4	V	159	ALA	C-N-CA	5.48	127.56	120.44
3	D	416	LYS	N-CA-C	-5.48	99.50	108.76
3	D	421	LYS	CA-C-N	5.48	130.98	122.49
3	D	421	LYS	C-N-CA	5.48	130.98	122.49
4	E	103	ILE	CA-C-N	5.48	129.13	120.47
4	E	103	ILE	C-N-CA	5.48	129.13	120.47
2	C	651	LEU	CA-C-N	5.48	127.62	120.28
2	C	651	LEU	C-N-CA	5.48	127.62	120.28
2	C	966	GLY	CA-C-N	-5.48	114.07	122.62
2	C	966	GLY	C-N-CA	-5.48	114.07	122.62
3	D	291	ASP	O-C-N	5.48	128.39	122.15
3	D	436	GLY	CA-C-N	5.48	127.88	120.65
3	D	436	GLY	C-N-CA	5.48	127.88	120.65
6	G	489	VAL	CA-C-N	5.48	127.56	120.44
6	G	489	VAL	C-N-CA	5.48	127.56	120.44
3	L	620	ARG	N-CA-C	5.48	117.05	111.14
6	G	363	GLU	CA-C-N	5.47	128.78	120.95
6	G	363	GLU	C-N-CA	5.47	128.78	120.95
4	M	542	LEU	CA-C-O	-5.47	115.06	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	363	GLU	CA-C-N	5.47	128.78	120.95
6	O	363	GLU	C-N-CA	5.47	128.78	120.95
4	V	103	ILE	CA-C-N	5.47	129.12	120.47
4	V	103	ILE	C-N-CA	5.47	129.12	120.47
2	C	156	ASP	N-CA-C	-5.47	106.48	112.72
3	L	753	GLU	CA-C-O	-5.47	114.62	120.42
4	E	23	GLU	CA-C-N	5.47	128.06	120.29
4	E	23	GLU	C-N-CA	5.47	128.06	120.29
4	M	159	ALA	CA-C-N	5.47	127.55	120.44
4	M	159	ALA	C-N-CA	5.47	127.55	120.44
3	L	421	LYS	CA-C-N	5.47	130.97	122.49
3	L	421	LYS	C-N-CA	5.47	130.97	122.49
3	L	534	PHE	CA-C-O	-5.47	114.51	120.36
2	K	156	ASP	N-CA-C	-5.47	106.49	112.72
3	L	106	ALA	N-CA-C	-5.47	100.11	109.24
3	L	802	LYS	CA-C-O	-5.47	115.46	121.31
3	D	106	ALA	N-CA-C	-5.46	100.11	109.24
4	M	103	ILE	CA-C-N	5.46	129.10	120.47
4	M	103	ILE	C-N-CA	5.46	129.10	120.47
6	O	452	VAL	CA-C-N	5.46	127.60	120.28
6	O	452	VAL	C-N-CA	5.46	127.60	120.28
6	O	489	VAL	CA-C-N	5.46	127.54	120.44
6	O	489	VAL	C-N-CA	5.46	127.54	120.44
4	E	513	LEU	N-CA-C	5.46	118.16	111.82
4	M	196	ALA	CA-C-N	5.46	128.04	120.29
4	M	196	ALA	C-N-CA	5.46	128.04	120.29
4	V	542	LEU	CA-C-O	-5.46	115.07	120.70
6	G	452	VAL	CA-C-N	5.46	127.60	120.28
6	G	452	VAL	C-N-CA	5.46	127.60	120.28
2	K	807	ASN	N-CA-C	-5.46	104.87	112.30
4	E	81	ASP	CA-C-N	5.46	124.80	118.85
4	E	81	ASP	C-N-CA	5.46	124.80	118.85
2	K	5	PHE	O-C-N	-5.46	117.02	123.41
2	K	947	VAL	N-CA-C	-5.46	101.21	108.96
3	L	145	VAL	O-C-N	5.46	129.00	122.62
4	M	49	THR	CA-C-N	5.46	127.59	120.28
4	M	49	THR	C-N-CA	5.46	127.59	120.28
4	M	492	VAL	N-CA-C	5.46	116.23	110.72
6	O	888	THR	N-CA-C	-5.46	104.83	112.25
3	D	753	GLU	CA-C-O	-5.46	114.64	120.42
6	O	914	SER	O-C-N	-5.46	116.31	122.97
2	C	234	MET	N-CA-C	-5.45	106.30	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	947	VAL	N-CA-C	-5.45	101.22	108.96
2	K	966	GLY	CA-C-N	-5.45	114.11	122.62
2	K	966	GLY	C-N-CA	-5.45	114.11	122.62
4	M	81	ASP	CA-C-N	5.45	124.80	118.85
4	M	81	ASP	C-N-CA	5.45	124.80	118.85
4	M	538	LYS	CA-C-N	5.45	127.59	120.28
4	M	538	LYS	C-N-CA	5.45	127.59	120.28
3	D	145	VAL	O-C-N	5.45	129.00	122.62
4	E	492	VAL	N-CA-C	5.45	116.23	110.72
6	G	914	SER	N-CA-C	5.45	117.93	110.24
6	G	888	THR	N-CA-C	-5.45	104.84	112.25
4	V	538	LYS	CA-C-N	5.45	127.58	120.28
4	V	538	LYS	C-N-CA	5.45	127.58	120.28
3	D	802	LYS	CA-C-O	-5.45	115.48	121.31
3	L	243	ILE	CA-C-O	5.45	127.59	120.78
3	L	729	PHE	O-C-N	5.45	128.36	122.15
2	C	669	ASP	O-C-N	5.45	129.12	122.58
3	D	243	ILE	CA-C-O	5.45	127.59	120.78
6	G	255	SER	CA-C-N	5.45	131.94	121.54
6	G	255	SER	C-N-CA	5.45	131.94	121.54
4	E	617	LEU	CA-C-N	5.44	128.12	120.28
4	E	617	LEU	C-N-CA	5.44	128.12	120.28
4	V	292	LEU	N-CA-C	5.44	117.92	111.33
2	C	523	ASN	CA-C-N	5.44	129.39	122.37
2	C	523	ASN	C-N-CA	5.44	129.39	122.37
3	D	190	CYS	O-C-N	5.44	129.58	123.27
4	E	836	GLY	N-CA-C	-5.44	108.14	115.21
4	M	23	GLU	CA-C-N	5.44	128.02	120.29
4	M	23	GLU	C-N-CA	5.44	128.02	120.29
6	O	352	ASN	N-CA-C	-5.44	107.89	114.75
4	E	49	THR	CA-C-N	5.44	127.57	120.28
4	E	49	THR	C-N-CA	5.44	127.57	120.28
4	E	159	ALA	CA-C-N	5.44	127.51	120.44
4	E	159	ALA	C-N-CA	5.44	127.51	120.44
3	L	440	GLY	N-CA-C	-5.44	101.03	110.71
3	L	596	THR	N-CA-C	-5.43	105.25	111.07
7	P	68	LEU	N-CA-C	-5.43	100.16	109.24
4	V	49	THR	CA-C-N	5.43	127.56	120.28
4	V	49	THR	C-N-CA	5.43	127.56	120.28
4	V	337	ASN	CA-C-N	-5.43	112.57	120.29
4	V	337	ASN	C-N-CA	-5.43	112.57	120.29
4	V	23	GLU	CA-C-N	5.43	128.00	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	23	GLU	C-N-CA	5.43	128.00	120.29
4	V	196	ALA	CA-C-N	5.43	128.00	120.29
4	V	196	ALA	C-N-CA	5.43	128.00	120.29
4	V	617	LEU	CA-C-N	5.43	128.10	120.28
4	V	617	LEU	C-N-CA	5.43	128.10	120.28
6	G	150	TYR	CA-C-O	-5.43	114.66	120.42
3	D	440	GLY	N-CA-C	-5.43	101.04	110.71
3	D	633	GLN	N-CA-C	-5.43	105.44	111.36
4	E	292	LEU	N-CA-C	5.43	117.90	111.33
2	K	215	PRO	N-CA-C	5.43	123.66	112.47
2	K	751	ASN	CA-C-N	5.43	128.56	120.31
2	K	751	ASN	C-N-CA	5.43	128.56	120.31
3	L	190	CYS	O-C-N	5.43	129.57	123.27
4	M	337	ASN	CA-C-N	-5.43	112.58	120.29
4	M	337	ASN	C-N-CA	-5.43	112.58	120.29
2	C	215	PRO	N-CA-C	5.43	123.65	112.47
3	D	540	VAL	O-C-N	5.43	127.10	122.16
4	E	668	THR	CA-C-O	-5.43	113.55	119.95
2	K	392	ASP	CA-C-N	5.43	130.80	122.93
2	K	392	ASP	C-N-CA	5.43	130.80	122.93
3	L	390	SER	N-CA-C	-5.43	100.85	109.59
4	V	668	THR	CA-C-O	-5.43	113.55	119.95
2	C	27	SER	N-CA-C	-5.42	100.06	108.90
2	K	27	SER	N-CA-C	-5.42	100.06	108.90
4	V	836	GLY	N-CA-C	-5.42	108.16	115.21
2	C	751	ASN	CA-C-N	5.42	128.55	120.31
2	C	751	ASN	C-N-CA	5.42	128.55	120.31
6	G	509	GLY	N-CA-C	-5.42	101.28	112.34
6	O	509	GLY	N-CA-C	-5.42	101.28	112.34
3	D	390	SER	N-CA-C	-5.42	100.87	109.59
3	D	534	PHE	CA-C-O	-5.42	114.56	120.36
6	G	914	SER	O-C-N	-5.42	116.36	122.97
4	V	513	LEU	N-CA-C	5.42	118.11	111.82
6	G	803	ASN	CA-C-O	-5.42	115.24	121.47
5	N	68	VAL	CA-C-O	5.42	126.08	120.39
3	D	729	PHE	O-C-N	5.42	128.32	122.15
6	G	823	SER	N-CA-C	-5.42	101.18	109.41
6	O	255	SER	CA-C-N	5.42	131.88	121.54
6	O	255	SER	C-N-CA	5.42	131.88	121.54
6	G	520	THR	N-CA-C	5.41	117.18	111.28
2	K	405	PRO	N-CA-C	-5.41	105.55	114.75
4	V	492	VAL	N-CA-C	5.41	116.19	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	68	LEU	N-CA-C	-5.41	100.21	109.24
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	M	498	PHE	CA-C-N	5.41	125.94	119.94
4	M	498	PHE	C-N-CA	5.41	125.94	119.94
3	D	596	THR	N-CA-C	-5.41	105.28	111.07
2	C	405	PRO	N-CA-C	-5.41	105.56	114.75
2	C	807	ASN	N-CA-C	-5.41	104.95	112.30
6	O	914	SER	N-CA-C	5.41	117.86	110.24
4	E	154	SER	O-C-N	5.40	127.64	122.07
3	L	582	ILE	CA-C-N	5.40	131.28	122.69
3	L	582	ILE	C-N-CA	5.40	131.28	122.69
4	M	292	LEU	N-CA-C	5.40	117.86	111.33
6	O	803	ASN	CA-C-O	-5.40	115.26	121.47
6	O	880	TYR	CA-C-N	5.40	127.46	120.44
6	O	880	TYR	C-N-CA	5.40	127.46	120.44
6	O	953	LEU	O-C-N	5.40	127.84	122.12
2	K	300	HIS	O-C-N	-5.40	115.70	121.42
2	K	523	ASN	CA-C-N	5.40	129.34	122.37
2	K	523	ASN	C-N-CA	5.40	129.34	122.37
3	D	182	GLU	N-CA-C	-5.40	95.83	107.49
3	D	349	GLY	CA-C-N	5.40	131.85	121.54
3	D	349	GLY	C-N-CA	5.40	131.85	121.54
6	G	352	ASN	N-CA-C	-5.40	107.95	114.75
2	K	240	TRP	N-CA-C	-5.40	104.98	113.02
6	O	520	THR	N-CA-C	5.40	117.16	111.28
2	C	700	PHE	CA-C-O	-5.40	114.70	120.42
3	L	182	GLU	N-CA-C	-5.40	95.83	107.49
6	G	880	TYR	CA-C-N	5.39	127.45	120.44
6	G	880	TYR	C-N-CA	5.39	127.45	120.44
6	O	823	SER	N-CA-C	-5.39	101.21	109.41
6	G	332	PRO	O-C-N	5.39	129.92	122.64
3	L	540	VAL	O-C-N	5.39	127.07	122.16
2	K	700	PHE	CA-C-O	-5.39	114.71	120.42
3	L	349	GLY	CA-C-N	5.39	131.84	121.54
3	L	349	GLY	C-N-CA	5.39	131.84	121.54
2	C	240	TRP	N-CA-C	-5.39	104.99	113.02
6	G	951	MET	N-CA-C	-5.39	106.38	113.17
4	V	770	VAL	N-CA-C	-5.39	104.22	111.44
3	L	633	GLN	N-CA-C	-5.39	105.49	111.36
2	C	392	ASP	CA-C-N	5.39	130.74	122.93
2	C	392	ASP	C-N-CA	5.39	130.74	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	607	ALA	N-CA-C	-5.39	106.19	114.16
4	E	680	GLN	N-CA-C	5.39	118.45	110.48
3	D	588	LEU	CA-C-N	5.38	127.84	120.46
3	D	588	LEU	C-N-CA	5.38	127.84	120.46
4	E	452	ALA	CA-C-N	5.38	127.50	120.28
4	E	452	ALA	C-N-CA	5.38	127.50	120.28
4	M	154	SER	O-C-N	5.38	127.62	122.07
4	V	452	ALA	CA-C-N	5.38	127.49	120.28
4	V	452	ALA	C-N-CA	5.38	127.49	120.28
4	V	607	ALA	N-CA-C	-5.38	106.19	114.16
3	D	582	ILE	CA-C-N	5.38	131.25	122.69
3	D	582	ILE	C-N-CA	5.38	131.25	122.69
4	E	188	ASP	N-CA-C	-5.38	106.09	113.30
3	L	648	ALA	O-C-N	5.38	127.82	122.12
2	C	637	VAL	CA-C-N	5.38	127.49	120.28
2	C	637	VAL	C-N-CA	5.38	127.49	120.28
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
2	K	502	HIS	CA-C-N	-5.38	114.62	122.58
2	K	502	HIS	C-N-CA	-5.38	114.62	122.58
3	L	719	ALA	CA-C-N	5.38	128.89	120.82
3	L	719	ALA	C-N-CA	5.38	128.89	120.82
4	M	503	GLU	CA-C-O	5.38	126.25	120.55
4	M	381	GLN	CA-C-N	5.38	127.43	120.44
4	M	381	GLN	C-N-CA	5.38	127.43	120.44
4	E	381	GLN	CA-C-N	5.37	127.43	120.44
4	E	381	GLN	C-N-CA	5.37	127.43	120.44
6	O	749	VAL	CA-C-O	5.37	125.57	120.25
2	C	422	ALA	CA-C-N	5.37	131.80	121.54
2	C	422	ALA	C-N-CA	5.37	131.80	121.54
3	D	346	LYS	CA-C-N	5.37	128.34	120.71
3	D	346	LYS	C-N-CA	5.37	128.34	120.71
4	M	285	LEU	CA-C-O	5.37	125.93	119.59
4	V	785	LYS	N-CA-C	-5.37	100.91	109.23
2	C	5	PHE	O-C-N	-5.37	117.13	123.41
3	D	654	LEU	CA-C-N	5.37	127.47	120.28
3	D	654	LEU	C-N-CA	5.37	127.47	120.28
4	E	557	GLY	O-C-N	5.37	128.28	122.96
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
2	C	501	SER	O-C-N	-5.37	116.03	122.15
4	E	498	PHE	CA-C-N	5.37	125.90	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	498	PHE	C-N-CA	5.37	125.90	119.94
4	E	402	PHE	CA-C-O	-5.37	114.86	120.55
3	L	346	LYS	CA-C-N	5.37	128.33	120.71
3	L	346	LYS	C-N-CA	5.37	128.33	120.71
3	L	588	LEU	CA-C-N	5.37	127.81	120.46
3	L	588	LEU	C-N-CA	5.37	127.81	120.46
6	O	332	PRO	O-C-N	5.37	129.88	122.64
7	P	18	SER	CA-C-N	-5.37	113.31	122.33
7	P	18	SER	C-N-CA	-5.37	113.31	122.33
4	V	680	GLN	N-CA-C	5.37	118.42	110.48
3	D	439	LEU	CA-C-N	-5.36	117.60	122.80
3	D	439	LEU	C-N-CA	-5.36	117.60	122.80
6	G	475	VAL	N-CA-C	5.36	115.57	110.53
7	H	363	LYS	CA-C-N	-5.36	113.07	121.87
7	H	363	LYS	C-N-CA	-5.36	113.07	121.87
2	K	422	ALA	CA-C-N	5.36	131.78	121.54
2	K	422	ALA	C-N-CA	5.36	131.78	121.54
4	M	452	ALA	CA-C-N	5.36	127.47	120.28
4	M	452	ALA	C-N-CA	5.36	127.47	120.28
5	N	59	ILE	O-C-N	-5.36	117.40	123.03
4	V	285	LEU	CA-C-O	5.36	125.92	119.59
4	V	402	PHE	CA-C-O	-5.36	114.86	120.55
6	G	953	LEU	O-C-N	5.36	127.80	122.12
4	V	498	PHE	CA-C-N	5.36	125.89	119.94
4	V	498	PHE	C-N-CA	5.36	125.89	119.94
3	D	92	VAL	CA-C-O	-5.36	115.10	121.05
3	D	450	TYR	CA-C-N	5.36	129.08	121.42
3	D	450	TYR	C-N-CA	5.36	129.08	121.42
4	M	402	PHE	CA-C-O	-5.36	114.87	120.55
5	N	114	LEU	CA-C-N	5.36	127.90	120.29
5	N	114	LEU	C-N-CA	5.36	127.90	120.29
4	V	602	PRO	N-CA-C	-5.36	102.27	110.95
2	K	205	ASP	CA-C-N	5.36	130.34	122.63
2	K	205	ASP	C-N-CA	5.36	130.34	122.63
4	M	188	ASP	N-CA-C	-5.36	106.12	113.30
6	O	926	ILE	N-CA-C	-5.36	99.93	107.75
4	E	770	VAL	N-CA-C	-5.35	104.27	111.44
7	H	18	SER	CA-C-N	-5.35	113.34	122.33
7	H	18	SER	C-N-CA	-5.35	113.34	122.33
2	K	658	ILE	CA-C-N	5.35	127.89	120.29
2	K	658	ILE	C-N-CA	5.35	127.89	120.29
3	L	493	GLU	N-CA-C	5.35	117.19	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	188	ASP	N-CA-C	-5.35	106.13	113.30
4	V	557	GLY	O-C-N	5.35	128.26	122.96
3	D	602	ASP	CA-C-N	5.35	127.40	120.44
3	D	602	ASP	C-N-CA	5.35	127.40	120.44
3	D	381	MET	CA-C-O	5.35	125.17	119.34
3	L	450	TYR	CA-C-N	5.35	129.07	121.42
3	L	450	TYR	C-N-CA	5.35	129.07	121.42
3	L	776	ASN	CA-C-N	-5.35	113.11	120.28
3	L	776	ASN	C-N-CA	-5.35	113.11	120.28
3	D	579	GLU	O-C-N	5.35	129.41	122.89
6	O	475	VAL	N-CA-C	5.35	115.56	110.53
4	E	616	GLN	CA-C-N	5.35	127.44	120.28
4	E	616	GLN	C-N-CA	5.35	127.44	120.28
7	H	385	SER	N-CA-C	-5.35	106.59	113.01
3	D	564	LEU	CA-C-O	5.34	126.20	120.70
3	L	608	LYS	O-C-N	5.34	128.84	122.27
4	V	154	SER	O-C-N	5.34	127.57	122.07
4	E	285	LEU	CA-C-O	5.34	125.89	119.59
5	F	87	GLU	CA-C-N	5.34	127.88	120.29
5	F	87	GLU	C-N-CA	5.34	127.88	120.29
6	G	749	VAL	CA-C-O	5.34	125.54	120.25
4	V	68	GLU	CA-C-N	5.34	127.44	120.28
4	V	68	GLU	C-N-CA	5.34	127.44	120.28
5	W	114	LEU	CA-C-N	5.34	127.88	120.29
5	W	114	LEU	C-N-CA	5.34	127.88	120.29
4	M	557	GLY	O-C-N	5.34	128.25	122.96
4	E	602	PRO	N-CA-C	-5.34	102.30	110.95
4	E	785	LYS	N-CA-C	-5.34	100.95	109.23
6	G	212	CYS	CA-C-N	5.34	128.06	120.53
6	G	212	CYS	C-N-CA	5.34	128.06	120.53
2	K	31	GLY	O-C-N	5.34	128.69	122.45
3	L	77	ASP	N-CA-C	-5.34	107.07	113.21
3	L	381	MET	CA-C-O	5.34	125.16	119.34
6	O	176	LEU	N-CA-C	-5.33	104.36	112.04
3	D	77	ASP	N-CA-C	-5.33	107.08	113.21
3	D	608	LYS	O-C-N	5.33	128.83	122.27
4	E	796	THR	O-C-N	-5.33	117.71	123.42
6	G	176	LEU	N-CA-C	-5.33	104.36	112.04
6	G	926	ILE	N-CA-C	-5.33	99.96	107.75
3	L	401	SER	CA-C-N	5.33	131.54	122.37
3	L	401	SER	C-N-CA	5.33	131.54	122.37
4	E	619	ALA	O-C-N	-5.33	116.47	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	602	ASP	CA-C-N	5.33	127.37	120.44
3	L	602	ASP	C-N-CA	5.33	127.37	120.44
2	C	502	HIS	CA-C-N	-5.33	114.69	122.58
2	C	502	HIS	C-N-CA	-5.33	114.69	122.58
2	C	658	ILE	CA-C-N	5.33	127.86	120.29
2	C	658	ILE	C-N-CA	5.33	127.86	120.29
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
5	F	59	ILE	O-C-N	-5.33	117.44	123.03
5	F	114	LEU	CA-C-N	5.33	127.86	120.29
5	F	114	LEU	C-N-CA	5.33	127.86	120.29
3	L	564	LEU	CA-C-O	5.33	126.19	120.70
6	O	212	CYS	CA-C-N	5.33	128.04	120.53
6	O	212	CYS	C-N-CA	5.33	128.04	120.53
2	K	520	ALA	CA-C-N	5.33	127.69	120.44
2	K	520	ALA	C-N-CA	5.33	127.69	120.44
2	K	703	LEU	O-C-N	5.33	127.76	122.12
5	N	87	GLU	CA-C-N	5.33	127.85	120.29
5	N	87	GLU	C-N-CA	5.33	127.85	120.29
4	V	796	THR	O-C-N	-5.33	117.72	123.42
2	C	424	ASN	N-CA-C	5.32	118.93	111.74
3	L	654	LEU	CA-C-N	5.32	127.41	120.28
3	L	654	LEU	C-N-CA	5.32	127.41	120.28
2	K	556	GLY	N-CA-C	-5.32	107.93	115.43
3	D	184	HIS	N-CA-C	-5.32	100.83	108.60
4	E	822	ASN	O-C-N	-5.32	116.20	122.58
2	K	404	ASN	O-C-N	-5.32	117.68	121.83
4	M	68	GLU	CA-C-N	5.32	127.41	120.28
4	M	68	GLU	C-N-CA	5.32	127.41	120.28
4	V	465	LYS	O-C-N	-5.32	116.43	122.23
5	W	62	LEU	N-CA-C	-5.32	100.02	109.06
5	W	87	GLU	CA-C-N	5.32	127.85	120.29
5	W	87	GLU	C-N-CA	5.32	127.85	120.29
3	L	439	LEU	CA-C-N	-5.32	117.64	122.80
3	L	439	LEU	C-N-CA	-5.32	117.64	122.80
2	C	60	HIS	O-C-N	-5.32	115.91	122.82
2	C	556	GLY	N-CA-C	-5.32	107.93	115.43
3	D	719	ALA	CA-C-N	5.32	128.79	120.82
3	D	719	ALA	C-N-CA	5.32	128.79	120.82
6	G	849	THR	CA-C-O	-5.32	115.39	121.40
2	K	501	SER	O-C-N	-5.32	116.09	122.15
3	L	92	VAL	CA-C-O	-5.32	115.15	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	360	HIS	CA-C-N	5.32	128.04	120.49
3	D	360	HIS	C-N-CA	5.32	128.04	120.49
3	D	468	ILE	O-C-N	-5.32	117.41	123.10
2	K	35	LEU	N-CA-C	-5.32	100.23	108.90
4	V	616	GLN	CA-C-N	5.32	127.40	120.28
4	V	616	GLN	C-N-CA	5.32	127.40	120.28
5	W	59	ILE	O-C-N	-5.32	117.45	123.03
2	C	31	GLY	O-C-N	5.31	128.66	122.45
2	C	520	ALA	CA-C-N	5.31	127.66	120.44
2	C	520	ALA	C-N-CA	5.31	127.66	120.44
4	E	703	PRO	CA-C-N	5.31	128.80	121.26
4	E	703	PRO	C-N-CA	5.31	128.80	121.26
5	F	62	LEU	N-CA-C	-5.31	100.03	109.06
3	D	493	GLU	N-CA-C	5.31	117.15	111.36
2	C	205	ASP	CA-C-N	5.31	130.28	122.63
2	C	205	ASP	C-N-CA	5.31	130.28	122.63
3	D	401	SER	CA-C-N	5.31	131.50	122.37
3	D	401	SER	C-N-CA	5.31	131.50	122.37
4	E	30	GLU	CA-C-N	5.31	129.10	120.60
4	E	30	GLU	C-N-CA	5.31	129.10	120.60
2	K	40	MET	CA-C-N	5.31	131.68	121.54
2	K	40	MET	C-N-CA	5.31	131.68	121.54
2	K	151	VAL	N-CA-C	-5.31	100.20	108.86
4	M	454	ARG	N-CA-C	5.31	116.87	111.14
6	O	849	THR	CA-C-O	-5.31	115.40	121.40
4	V	381	GLN	CA-C-N	5.31	127.34	120.44
4	V	381	GLN	C-N-CA	5.31	127.34	120.44
6	G	558	ALA	O-C-N	5.31	129.65	122.59
3	L	238	HIS	CA-C-O	-5.31	114.52	120.25
4	V	503	GLU	CA-C-O	5.31	126.17	120.55
4	E	503	GLU	CA-C-O	5.30	126.17	120.55
5	F	139	PRO	CA-C-N	5.30	127.82	120.29
5	F	139	PRO	C-N-CA	5.30	127.82	120.29
6	G	162	ILE	CA-C-N	5.30	127.39	120.28
6	G	162	ILE	C-N-CA	5.30	127.39	120.28
2	K	60	HIS	O-C-N	-5.30	115.92	122.82
3	L	579	GLU	O-C-N	5.30	129.36	122.89
2	K	424	ASN	N-CA-C	5.30	118.90	111.74
3	L	184	HIS	N-CA-C	-5.30	100.86	108.60
2	C	404	ASN	O-C-N	-5.30	117.69	121.83
3	D	776	ASN	CA-C-N	-5.30	113.18	120.28
3	D	776	ASN	C-N-CA	-5.30	113.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	90	PRO	CA-C-O	-5.30	110.95	120.60
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
4	M	30	GLU	CA-C-N	5.30	129.08	120.60
4	M	30	GLU	C-N-CA	5.30	129.08	120.60
5	N	62	LEU	N-CA-C	-5.30	100.05	109.06
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
2	C	587	PRO	CA-C-N	-5.30	113.25	122.37
2	C	587	PRO	C-N-CA	-5.30	113.25	122.37
3	D	530	VAL	CA-C-N	5.30	127.98	119.98
3	D	530	VAL	C-N-CA	5.30	127.98	119.98
4	E	142	ARG	CA-C-O	5.30	126.39	120.82
3	L	409	ASN	N-CA-C	-5.30	105.66	113.61
6	O	90	PRO	CA-C-O	-5.30	110.95	120.60
6	O	162	ILE	CA-C-N	5.30	127.38	120.28
6	O	162	ILE	C-N-CA	5.30	127.38	120.28
2	C	721	LYS	N-CA-C	5.30	117.13	111.36
6	O	418	ALA	N-CA-C	5.30	116.74	111.07
4	E	714	THR	CA-C-O	5.30	125.72	120.32
3	L	678	ILE	CA-C-O	-5.30	115.24	120.85
4	V	30	GLU	CA-C-N	5.30	129.08	120.60
4	V	30	GLU	C-N-CA	5.30	129.08	120.60
4	V	619	ALA	O-C-N	-5.30	116.50	122.12
4	V	782	GLU	N-CA-C	-5.30	106.76	114.12
4	E	66	ALA	CA-C-N	5.29	127.38	120.28
4	E	66	ALA	C-N-CA	5.29	127.38	120.28
4	E	782	GLU	N-CA-C	-5.29	106.76	114.12
3	L	360	HIS	CA-C-N	5.29	128.01	120.49
3	L	360	HIS	C-N-CA	5.29	128.01	120.49
3	L	530	VAL	CA-C-N	5.29	127.97	119.98
3	L	530	VAL	C-N-CA	5.29	127.97	119.98
4	M	465	LYS	O-C-N	-5.29	116.46	122.23
6	O	558	ALA	CA-C-O	-5.29	112.94	120.51
2	C	40	MET	CA-C-N	5.29	131.65	121.54
2	C	40	MET	C-N-CA	5.29	131.65	121.54
3	D	648	ALA	O-C-N	5.29	127.73	122.12
6	G	315	GLU	CA-C-N	5.29	130.45	122.99
6	G	315	GLU	C-N-CA	5.29	130.45	122.99
6	G	558	ALA	CA-C-O	-5.29	112.94	120.51
6	G	260	VAL	CA-C-N	5.29	128.22	120.71
6	G	260	VAL	C-N-CA	5.29	128.22	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	587	PRO	CA-C-N	-5.29	113.27	122.37
2	K	587	PRO	C-N-CA	-5.29	113.27	122.37
2	K	78	TRP	CA-C-N	5.29	129.65	122.19
2	K	78	TRP	C-N-CA	5.29	129.65	122.19
6	O	180	PHE	N-CA-C	-5.29	99.54	110.80
4	V	566	THR	CA-C-N	5.29	127.37	120.28
4	V	566	THR	C-N-CA	5.29	127.37	120.28
4	V	822	ASN	O-C-N	-5.29	116.23	122.58
3	D	409	ASN	N-CA-C	-5.29	105.68	113.61
6	G	418	ALA	N-CA-C	5.29	116.73	111.07
4	M	566	THR	CA-C-N	5.29	127.36	120.28
4	M	566	THR	C-N-CA	5.29	127.36	120.28
3	D	595	GLN	N-CA-C	5.29	117.12	111.36
6	G	581	PHE	N-CA-C	-5.29	99.71	108.75
2	K	432	MET	O-C-N	5.29	128.08	121.84
4	M	535	LEU	N-CA-C	5.29	116.85	111.14
6	O	260	VAL	CA-C-N	5.29	128.21	120.71
6	O	260	VAL	C-N-CA	5.29	128.21	120.71
2	C	35	LEU	N-CA-C	-5.28	100.29	108.90
2	C	512	VAL	CA-C-N	-5.28	116.22	123.14
2	C	512	VAL	C-N-CA	-5.28	116.22	123.14
6	G	180	PHE	N-CA-C	-5.28	99.55	110.80
4	M	46	HIS	CA-C-N	5.28	127.70	120.46
4	M	46	HIS	C-N-CA	5.28	127.70	120.46
4	M	66	ALA	CA-C-N	5.28	127.36	120.28
4	M	66	ALA	C-N-CA	5.28	127.36	120.28
4	V	66	ALA	CA-C-N	5.28	127.36	120.28
4	V	66	ALA	C-N-CA	5.28	127.36	120.28
4	V	142	ARG	CA-C-O	5.28	126.37	120.82
3	D	425	LYS	CA-C-N	5.28	126.44	119.84
3	D	425	LYS	C-N-CA	5.28	126.44	119.84
2	K	721	LYS	N-CA-C	5.28	117.12	111.36
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	O	315	GLU	CA-C-N	5.28	130.44	122.99
6	O	315	GLU	C-N-CA	5.28	130.44	122.99
4	V	703	PRO	CA-C-N	5.28	128.76	121.26
4	V	703	PRO	C-N-CA	5.28	128.76	121.26
4	V	714	THR	CA-C-O	5.28	125.71	120.32
4	M	435	GLY	CA-C-O	5.28	126.19	120.75
6	O	789	PRO	N-CA-C	5.28	119.50	111.11
6	G	248	CYS	O-C-N	-5.28	116.53	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	535	LEU	N-CA-C	5.28	116.84	111.14
4	E	566	THR	CA-C-N	5.28	127.35	120.28
4	E	566	THR	C-N-CA	5.28	127.35	120.28
3	L	468	ILE	O-C-N	-5.28	117.45	123.10
6	O	558	ALA	O-C-N	5.28	129.61	122.59
4	E	158	SER	O-C-N	5.27	127.71	122.12
3	L	356	GLN	O-C-N	5.27	128.16	122.15
4	M	142	ARG	CA-C-O	5.27	126.36	120.82
5	N	62	LEU	CA-C-N	5.27	131.33	123.05
5	N	62	LEU	C-N-CA	5.27	131.33	123.05
5	W	62	LEU	CA-C-N	5.27	131.33	123.05
5	W	62	LEU	C-N-CA	5.27	131.33	123.05
2	C	797	PRO	CA-C-O	-5.27	112.92	120.56
3	D	754	ALA	CA-C-N	5.27	127.34	120.28
3	D	754	ALA	C-N-CA	5.27	127.34	120.28
3	L	268	ASN	CA-C-O	5.27	127.70	121.58
6	O	581	PHE	N-CA-C	-5.27	99.73	108.75
4	V	454	ARG	N-CA-C	5.27	116.83	111.14
4	E	435	GLY	CA-C-O	5.27	126.18	120.75
3	L	1	MET	CA-C-N	5.27	125.17	119.85
3	L	1	MET	C-N-CA	5.27	125.17	119.85
5	F	62	LEU	CA-C-N	5.27	131.32	123.05
5	F	62	LEU	C-N-CA	5.27	131.32	123.05
6	G	789	PRO	N-CA-C	5.27	119.49	111.11
6	O	758	VAL	N-CA-C	-5.27	100.27	108.81
4	V	46	HIS	CA-C-N	5.27	127.68	120.46
4	V	46	HIS	C-N-CA	5.27	127.68	120.46
3	D	428	PHE	N-CA-C	-5.27	101.70	109.86
2	K	44	ILE	N-CA-C	-5.27	105.95	110.74
6	O	35	VAL	CA-C-N	5.27	127.77	120.29
6	O	35	VAL	C-N-CA	5.27	127.77	120.29
4	V	706	CYS	N-CA-C	-5.27	101.36	109.52
2	C	432	MET	O-C-N	5.27	128.05	121.84
3	D	208	ASP	N-CA-C	-5.27	107.03	112.93
6	G	225	LEU	CA-C-O	-5.27	114.97	120.55
6	G	758	VAL	N-CA-C	-5.26	100.28	108.81
6	O	225	LEU	CA-C-O	-5.26	114.97	120.55
6	O	369	ASN	N-CA-C	-5.26	101.07	109.23
4	E	454	ARG	N-CA-C	5.26	116.82	111.14
4	E	706	CYS	N-CA-C	-5.26	101.36	109.52
6	G	369	ASN	N-CA-C	-5.26	101.07	109.23
6	O	248	CYS	O-C-N	-5.26	116.54	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	487	PRO	CA-C-N	5.26	129.65	120.86
6	O	487	PRO	C-N-CA	5.26	129.65	120.86
5	W	50	ASN	N-CA-C	5.26	117.02	111.28
4	E	179	ASN	CA-C-N	5.26	127.76	120.29
4	E	179	ASN	C-N-CA	5.26	127.76	120.29
6	G	551	PHE	N-CA-C	-5.26	104.04	111.56
4	M	158	SER	O-C-N	5.26	127.69	122.12
2	C	703	LEU	O-C-N	5.26	127.69	122.12
4	E	465	LYS	O-C-N	-5.26	116.50	122.23
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
3	L	530	VAL	N-CA-C	-5.25	99.59	107.37
6	O	461	ILE	CA-C-N	5.25	127.32	120.28
6	O	461	ILE	C-N-CA	5.25	127.32	120.28
3	D	678	ILE	CA-C-O	-5.25	115.28	120.85
2	K	797	PRO	CA-C-O	-5.25	112.94	120.56
4	M	231	MET	O-C-N	5.25	127.69	122.12
4	M	392	ARG	N-CA-C	-5.25	105.58	112.41
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
3	D	1	MET	CA-C-N	5.25	125.15	119.85
3	D	1	MET	C-N-CA	5.25	125.15	119.85
2	K	512	VAL	CA-C-N	-5.25	116.26	123.14
2	K	512	VAL	C-N-CA	-5.25	116.26	123.14
4	V	158	SER	O-C-N	5.25	127.69	122.12
4	E	46	HIS	CA-C-N	5.25	127.65	120.46
4	E	46	HIS	C-N-CA	5.25	127.65	120.46
6	G	487	PRO	CA-C-N	5.25	129.62	120.86
6	G	487	PRO	C-N-CA	5.25	129.62	120.86
4	M	219	THR	N-CA-C	5.25	117.00	111.28
6	O	856	ARG	O-C-N	-5.25	116.67	122.07
7	P	112	ALA	O-C-N	-5.25	116.56	122.12
2	C	699	ASN	O-C-N	5.25	129.57	122.59
3	D	530	VAL	N-CA-C	-5.25	99.61	107.37
6	G	35	VAL	CA-C-N	5.25	127.74	120.29
6	G	35	VAL	C-N-CA	5.25	127.74	120.29
6	G	252	LEU	N-CA-C	-5.25	103.39	110.68
6	G	579	ASN	CA-C-N	-5.25	113.97	122.36
6	G	579	ASN	C-N-CA	-5.25	113.97	122.36
4	E	231	MET	O-C-N	5.25	127.68	122.12
4	M	318	HIS	O-C-N	-5.25	115.29	121.32
5	W	139	PRO	CA-C-N	5.25	127.74	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	W	139	PRO	C-N-CA	5.25	127.74	120.29
2	C	44	ILE	N-CA-C	-5.24	105.97	110.74
4	E	862	GLU	CA-C-O	-5.24	115.67	121.33
4	E	535	LEU	N-CA-C	5.24	116.80	111.14
6	G	230	LEU	CA-C-N	5.24	130.00	122.45
6	G	230	LEU	C-N-CA	5.24	130.00	122.45
6	G	413	ASN	N-CA-C	-5.24	102.76	110.52
5	F	50	ASN	N-CA-C	5.24	116.99	111.28
2	K	72	ASP	CA-C-N	5.24	131.55	121.54
2	K	72	ASP	C-N-CA	5.24	131.55	121.54
6	O	133	LEU	CA-C-N	5.24	127.28	120.26
6	O	133	LEU	C-N-CA	5.24	127.28	120.26
3	D	177	PRO	N-CA-C	-5.24	101.68	112.47
3	D	238	HIS	CA-C-O	-5.24	114.59	120.25
3	L	595	GLN	N-CA-C	5.24	117.07	111.36
4	V	862	GLU	CA-C-O	-5.24	115.67	121.33
3	D	356	GLN	O-C-N	5.24	128.12	122.15
2	C	396	ILE	CA-C-O	-5.23	114.40	118.85
4	E	379	VAL	CA-C-O	-5.23	115.30	120.85
2	K	396	ILE	CA-C-O	-5.23	114.40	118.85
3	L	428	PHE	N-CA-C	-5.23	101.75	109.86
6	O	551	PHE	N-CA-C	-5.23	104.08	111.56
4	V	219	THR	N-CA-C	5.23	116.98	111.28
4	V	471	LYS	O-C-N	-5.23	116.57	122.12
2	K	548	HIS	CA-C-O	5.23	127.23	121.11
3	L	208	ASP	N-CA-C	-5.23	107.07	112.93
3	L	425	LYS	CA-C-N	5.23	126.38	119.84
3	L	425	LYS	C-N-CA	5.23	126.38	119.84
3	L	554	ILE	N-CA-C	-5.23	105.30	111.00
6	O	230	LEU	CA-C-N	5.23	129.98	122.45
6	O	230	LEU	C-N-CA	5.23	129.98	122.45
6	G	461	ILE	CA-C-N	5.23	127.29	120.28
6	G	461	ILE	C-N-CA	5.23	127.29	120.28
3	L	552	VAL	N-CA-C	-5.23	100.80	108.85
6	O	413	ASN	N-CA-C	-5.23	102.78	110.52
4	E	219	THR	N-CA-C	5.23	116.98	111.28
4	E	392	ARG	N-CA-C	-5.23	105.61	112.41
3	L	669	LYS	CA-C-O	5.23	126.31	120.82
2	C	72	ASP	CA-C-N	5.22	131.52	121.54
2	C	72	ASP	C-N-CA	5.22	131.52	121.54
6	G	133	LEU	CA-C-N	5.22	127.26	120.26
6	G	133	LEU	C-N-CA	5.22	127.26	120.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	856	ARG	O-C-N	-5.22	116.69	122.07
6	O	512	GLN	O-C-N	5.22	127.66	122.12
3	L	177	PRO	N-CA-C	-5.22	101.71	112.47
4	V	179	ASN	CA-C-N	5.22	127.70	120.29
4	V	179	ASN	C-N-CA	5.22	127.70	120.29
4	V	231	MET	O-C-N	5.22	127.66	122.12
2	K	182	ARG	N-CA-C	-5.22	100.52	109.24
3	D	552	VAL	N-CA-C	-5.22	100.81	108.85
5	N	50	ASN	N-CA-C	5.22	116.97	111.28
5	N	79	VAL	N-CA-C	-5.22	100.68	108.46
4	V	392	ARG	N-CA-C	-5.22	105.63	112.41
3	D	268	ASN	CA-C-O	5.22	127.63	121.58
7	P	47	THR	CA-C-O	-5.22	114.20	120.10
3	D	554	ILE	N-CA-C	-5.22	105.31	111.00
4	E	318	HIS	O-C-N	-5.22	115.32	121.32
6	G	344	ALA	N-CA-C	-5.22	105.49	111.07
2	K	664	ALA	CA-C-N	5.22	127.27	120.28
2	K	664	ALA	C-N-CA	5.22	127.27	120.28
7	P	89	VAL	N-CA-C	5.22	115.99	110.72
4	V	318	HIS	O-C-N	-5.22	115.32	121.32
6	G	48	MET	CA-C-O	-5.21	114.89	120.42
2	K	679	GLU	CA-C-N	5.21	127.60	120.46
2	K	679	GLU	C-N-CA	5.21	127.60	120.46
6	O	48	MET	CA-C-O	-5.21	114.89	120.42
7	H	89	VAL	N-CA-C	5.21	115.98	110.72
2	K	9	SER	O-C-N	5.21	127.62	122.10
2	K	302	ASN	N-CA-C	-5.21	106.60	113.17
3	L	203	ILE	CA-C-O	-5.21	115.23	121.28
5	W	27	PHE	N-CA-C	5.21	117.66	108.75
2	C	182	ARG	N-CA-C	-5.21	100.54	109.24
4	E	286	ALA	O-C-N	-5.21	115.33	121.32
4	M	179	ASN	CA-C-N	5.21	127.69	120.29
4	M	179	ASN	C-N-CA	5.21	127.69	120.29
5	N	27	PHE	N-CA-C	5.21	117.66	108.75
4	V	435	GLY	CA-C-O	5.21	126.12	120.75
2	C	302	ASN	N-CA-C	-5.21	106.61	113.17
7	H	494	PRO	CA-C-N	-5.21	116.73	123.19
7	H	494	PRO	C-N-CA	-5.21	116.73	123.19
2	K	699	ASN	O-C-N	5.21	129.52	122.59
6	O	252	LEU	N-CA-C	-5.21	103.44	110.68
4	M	286	ALA	O-C-N	-5.21	115.33	121.32
4	V	379	VAL	CA-C-O	-5.21	115.33	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	863	GLU	CA-C-O	5.20	125.94	120.42
6	O	384	VAL	CA-C-O	-5.20	115.65	121.17
6	O	967	SER	CA-C-N	5.20	131.07	121.70
6	O	967	SER	C-N-CA	5.20	131.07	121.70
4	V	863	GLU	CA-C-O	5.20	125.93	120.42
2	C	664	ALA	CA-C-N	5.20	127.25	120.28
2	C	664	ALA	C-N-CA	5.20	127.25	120.28
7	H	47	THR	CA-C-O	-5.20	114.22	120.10
2	C	233	ARG	N-CA-C	-5.20	100.26	108.73
2	C	751	ASN	O-C-N	-5.20	115.88	122.27
6	G	371	SER	N-CA-C	-5.20	104.54	111.87
2	K	601	LEU	N-CA-C	-5.20	105.69	111.36
2	C	796	GLN	CA-C-O	-5.20	113.94	120.23
4	E	661	PHE	N-CA-C	-5.20	100.71	109.07
2	C	537	GLU	CA-C-N	5.19	131.46	121.54
2	C	537	GLU	C-N-CA	5.19	131.46	121.54
4	E	802	GLY	CA-C-O	-5.19	115.40	120.75
5	F	27	PHE	N-CA-C	5.19	117.63	108.75
6	O	371	SER	N-CA-C	-5.19	104.55	111.87
5	W	79	VAL	N-CA-C	-5.19	100.73	108.46
4	V	286	ALA	O-C-N	-5.19	115.35	121.32
2	C	9	SER	O-C-N	5.19	127.60	122.10
2	C	548	HIS	CA-C-O	5.19	127.18	121.11
5	F	79	VAL	N-CA-C	-5.19	100.73	108.46
3	L	3	LEU	O-C-N	-5.19	117.57	123.48
6	G	525	SER	N-CA-C	-5.18	99.89	108.75
7	H	112	ALA	O-C-N	-5.18	116.62	122.12
6	G	837	ILE	N-CA-C	5.18	120.12	109.34
2	K	751	ASN	O-C-N	-5.18	115.90	122.27
6	O	837	ILE	N-CA-C	5.18	120.12	109.34
2	C	21	ARG	CA-C-O	-5.18	115.71	120.94
6	G	323	MET	CA-C-N	5.18	127.74	120.28
6	G	323	MET	C-N-CA	5.18	127.74	120.28
2	K	233	ARG	N-CA-C	-5.18	100.28	108.73
1	B	130	LEU	CA-C-N	5.18	124.63	119.24
1	B	130	LEU	C-N-CA	5.18	124.63	119.24
2	C	382	ARG	CA-C-N	5.18	131.43	121.54
2	C	382	ARG	C-N-CA	5.18	131.43	121.54
2	C	601	LEU	N-CA-C	-5.18	105.71	111.36
2	K	796	GLN	CA-C-O	-5.18	113.96	120.23
4	M	457	HIS	CA-C-O	-5.18	115.38	120.82
7	P	62	GLU	N-CA-C	5.18	116.83	108.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	457	HIS	CA-C-O	-5.18	115.38	120.82
3	D	173	GLY	CA-C-O	5.18	126.00	120.30
3	D	643	HIS	N-CA-C	-5.18	105.72	111.36
4	E	471	LYS	O-C-N	-5.18	116.63	122.12
6	G	492	GLU	N-CA-C	5.18	117.00	111.36
6	G	967	SER	CA-C-N	5.18	131.02	121.70
6	G	967	SER	C-N-CA	5.18	131.02	121.70
3	L	357	THR	N-CA-C	-5.18	100.26	109.06
3	L	639	THR	N-CA-C	-5.18	105.72	111.36
4	M	379	VAL	CA-C-O	-5.18	115.36	120.85
3	D	357	THR	N-CA-C	-5.17	100.26	109.06
6	G	384	VAL	CA-C-O	-5.17	115.69	121.17
2	K	537	GLU	CA-C-N	5.17	131.42	121.54
2	K	537	GLU	C-N-CA	5.17	131.42	121.54
3	L	643	HIS	N-CA-C	-5.17	105.72	111.36
6	O	41	ALA	CA-C-N	5.17	127.21	120.28
6	O	41	ALA	C-N-CA	5.17	127.21	120.28
2	C	112	SER	CA-C-O	5.17	127.58	121.58
2	C	679	GLU	CA-C-N	5.17	127.55	120.46
2	C	679	GLU	C-N-CA	5.17	127.55	120.46
4	E	457	HIS	CA-C-O	-5.17	115.39	120.82
3	D	203	ILE	CA-C-O	-5.17	115.28	121.28
7	H	457	SER	CA-C-N	-5.17	112.56	122.13
7	H	457	SER	C-N-CA	-5.17	112.56	122.13
6	O	344	ALA	N-CA-C	-5.17	105.54	111.07
1	J	130	LEU	CA-C-N	5.17	124.62	119.24
1	J	130	LEU	C-N-CA	5.17	124.62	119.24
2	K	112	SER	CA-C-O	5.17	127.58	121.58
6	O	95	LEU	CA-C-N	5.17	130.64	121.80
6	O	95	LEU	C-N-CA	5.17	130.64	121.80
5	W	71	SER	CA-C-N	5.17	131.41	121.54
5	W	71	SER	C-N-CA	5.17	131.41	121.54
2	C	441	LYS	CA-C-N	5.17	131.41	121.54
2	C	441	LYS	C-N-CA	5.17	131.41	121.54
3	D	3	LEU	O-C-N	-5.17	117.59	123.48
3	D	116	THR	N-CA-C	-5.17	101.34	109.50
6	G	128	LYS	N-CA-C	-5.17	106.57	112.92
6	G	199	HIS	CA-C-O	-5.17	115.20	120.99
7	H	416	GLY	CA-C-N	5.17	127.75	120.42
7	H	416	GLY	C-N-CA	5.17	127.75	120.42
6	O	525	SER	N-CA-C	-5.17	99.92	108.75
6	G	244	ARG	CA-C-N	5.16	127.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	244	ARG	C-N-CA	5.16	127.20	120.28
6	O	106	ARG	CA-C-N	5.16	127.20	120.28
6	O	106	ARG	C-N-CA	5.16	127.20	120.28
7	H	62	GLU	N-CA-C	5.16	116.80	108.08
7	H	433	SER	N-CA-C	-5.16	103.79	110.19
5	N	71	SER	CA-C-N	5.16	131.40	121.54
5	N	71	SER	C-N-CA	5.16	131.40	121.54
1	R	130	LEU	CA-C-N	5.16	124.61	119.24
1	R	130	LEU	C-N-CA	5.16	124.61	119.24
3	D	580	LEU	CA-C-N	5.16	132.82	123.27
3	D	580	LEU	C-N-CA	5.16	132.82	123.27
4	E	743	ASP	CA-C-N	5.16	127.62	120.29
4	E	743	ASP	C-N-CA	5.16	127.62	120.29
5	F	71	SER	CA-C-N	5.16	131.40	121.54
5	F	71	SER	C-N-CA	5.16	131.40	121.54
6	G	95	LEU	CA-C-N	5.16	130.62	121.80
6	G	95	LEU	C-N-CA	5.16	130.62	121.80
2	K	21	ARG	CA-C-O	-5.16	115.73	120.94
2	K	441	LYS	CA-C-N	5.16	131.40	121.54
2	K	441	LYS	C-N-CA	5.16	131.40	121.54
2	C	344	LEU	CA-C-O	5.16	127.89	120.51
3	D	639	THR	N-CA-C	-5.16	105.74	111.36
7	H	20	GLN	N-CA-C	-5.16	98.86	107.99
2	K	382	ARG	CA-C-N	5.16	131.39	121.54
2	K	382	ARG	C-N-CA	5.16	131.39	121.54
4	V	661	PHE	N-CA-C	-5.16	100.76	109.07
2	K	242	VAL	CA-C-N	5.16	130.66	122.62
2	K	242	VAL	C-N-CA	5.16	130.66	122.62
4	M	471	LYS	O-C-N	-5.16	116.65	122.12
6	G	106	ARG	CA-C-N	5.15	127.18	120.28
6	G	106	ARG	C-N-CA	5.15	127.18	120.28
7	P	57	VAL	CA-C-N	-5.15	113.55	122.10
7	P	57	VAL	C-N-CA	-5.15	113.55	122.10
4	E	256	GLU	N-CA-C	-5.15	99.83	110.80
3	L	777	LEU	N-CA-C	5.15	116.89	111.28
6	O	416	ALA	CA-C-N	5.15	127.18	120.28
6	O	416	ALA	C-N-CA	5.15	127.18	120.28
6	O	950	GLY	N-CA-C	-5.15	100.97	113.18
7	P	20	GLN	N-CA-C	-5.15	98.87	107.99
3	D	669	LYS	CA-C-O	5.15	126.23	120.82
2	K	404	ASN	N-CA-C	-5.15	101.47	108.11
6	G	512	GLN	O-C-N	5.15	127.58	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	344	LEU	CA-C-O	5.15	127.87	120.51
3	L	173	GLY	CA-C-O	5.15	125.96	120.30
3	L	598	VAL	CA-C-N	5.15	127.18	120.28
3	L	598	VAL	C-N-CA	5.15	127.18	120.28
4	M	81	ASP	N-CA-C	-5.15	100.47	109.48
6	O	128	LYS	N-CA-C	-5.15	106.59	112.92
6	O	323	MET	CA-C-N	5.15	127.69	120.28
6	O	323	MET	C-N-CA	5.15	127.69	120.28
4	V	743	ASP	CA-C-N	5.15	127.60	120.29
4	V	743	ASP	C-N-CA	5.15	127.60	120.29
3	D	637	VAL	CA-C-N	5.14	128.63	121.02
3	D	637	VAL	C-N-CA	5.14	128.63	121.02
6	O	199	HIS	CA-C-O	-5.14	115.23	120.99
6	O	576	LYS	CA-C-N	5.14	131.36	121.54
6	O	576	LYS	C-N-CA	5.14	131.36	121.54
7	P	118	ALA	CA-C-O	-5.14	114.80	120.30
7	H	57	VAL	CA-C-N	-5.14	113.56	122.10
7	H	57	VAL	C-N-CA	-5.14	113.56	122.10
3	D	330	MET	N-CA-C	-5.14	100.93	108.79
3	L	580	LEU	CA-C-N	5.14	132.78	123.27
3	L	580	LEU	C-N-CA	5.14	132.78	123.27
6	O	20	PRO	O-C-N	-5.14	115.40	121.46
2	C	242	VAL	CA-C-N	5.14	130.64	122.62
2	C	242	VAL	C-N-CA	5.14	130.64	122.62
2	C	404	ASN	N-CA-C	-5.14	101.48	108.11
3	D	217	GLN	CA-C-O	5.14	126.00	120.55
4	V	802	GLY	CA-C-O	-5.14	115.46	120.75
6	G	41	ALA	CA-C-N	5.14	127.16	120.28
6	G	41	ALA	C-N-CA	5.14	127.16	120.28
2	K	1078	LEU	N-CA-C	-5.14	105.68	111.28
6	O	244	ARG	CA-C-N	5.14	127.16	120.28
6	O	244	ARG	C-N-CA	5.14	127.16	120.28
6	G	950	GLY	N-CA-C	-5.13	101.01	113.18
3	L	116	THR	N-CA-C	-5.13	101.39	109.50
6	O	492	GLU	N-CA-C	5.13	116.96	111.36
6	O	919	ASP	N-CA-C	-5.13	101.90	109.86
4	V	81	ASP	N-CA-C	-5.13	100.49	109.48
3	L	539	SER	CA-C-N	5.13	130.34	122.69
3	L	539	SER	C-N-CA	5.13	130.34	122.69
3	L	330	MET	N-CA-C	-5.13	100.94	108.79
3	L	637	VAL	CA-C-N	5.13	128.62	121.02
3	L	637	VAL	C-N-CA	5.13	128.62	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	256	GLU	N-CA-C	-5.13	99.88	110.80
2	C	771	ALA	CA-C-O	5.13	125.98	120.55
6	G	919	ASP	N-CA-C	-5.12	101.92	109.86
3	L	731	SER	N-CA-C	5.12	116.86	111.28
6	O	951	MET	N-CA-C	-5.12	106.44	113.30
4	V	256	GLU	N-CA-C	-5.12	99.89	110.80
1	I	130	LEU	CA-C-N	5.12	124.56	119.24
1	I	130	LEU	C-N-CA	5.12	124.56	119.24
3	L	695	ASP	O-C-N	-5.12	116.72	122.86
4	V	772	PHE	CA-C-N	5.12	127.14	120.28
4	V	772	PHE	C-N-CA	5.12	127.14	120.28
5	W	93	VAL	CA-C-N	5.12	127.14	120.28
5	W	93	VAL	C-N-CA	5.12	127.14	120.28
3	D	731	SER	N-CA-C	5.12	116.86	111.28
4	E	819	VAL	CA-C-N	5.12	125.27	119.90
4	E	819	VAL	C-N-CA	5.12	125.27	119.90
1	A	130	LEU	CA-C-N	5.11	124.56	119.24
1	A	130	LEU	C-N-CA	5.11	124.56	119.24
2	C	1078	LEU	N-CA-C	-5.11	105.71	111.28
3	D	358	ILE	N-CA-C	-5.11	100.70	108.17
3	D	539	SER	CA-C-N	5.11	130.31	122.69
3	D	539	SER	C-N-CA	5.11	130.31	122.69
4	E	81	ASP	N-CA-C	-5.11	100.53	109.48
3	L	283	SER	N-CA-C	5.11	121.69	110.80
3	L	335	ILE	CA-C-N	5.11	131.31	121.54
3	L	335	ILE	C-N-CA	5.11	131.31	121.54
3	D	522	GLU	CA-C-N	5.11	127.45	120.35
3	D	522	GLU	C-N-CA	5.11	127.45	120.35
3	D	777	LEU	N-CA-C	5.11	116.85	111.28
3	L	611	PRO	O-C-N	5.11	129.09	122.24
6	O	759	LEU	N-CA-C	-5.11	100.12	108.76
3	D	598	VAL	CA-C-N	5.11	127.13	120.28
3	D	598	VAL	C-N-CA	5.11	127.13	120.28
6	G	263	GLU	N-CA-C	-5.11	106.64	112.92
6	G	416	ALA	CA-C-N	5.11	127.12	120.28
6	G	416	ALA	C-N-CA	5.11	127.12	120.28
6	G	939	THR	N-CA-C	-5.11	99.92	110.80
7	H	118	ALA	CA-C-O	-5.11	114.83	120.30
3	D	335	ILE	CA-C-N	5.11	131.29	121.54
3	D	335	ILE	C-N-CA	5.11	131.29	121.54
3	L	358	ILE	N-CA-C	-5.11	100.72	108.17
4	V	758	VAL	O-C-N	-5.11	117.67	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	393	ARG	N-CA-C	5.10	116.65	111.14
5	F	93	VAL	CA-C-N	5.10	127.11	120.28
5	F	93	VAL	C-N-CA	5.10	127.11	120.28
6	G	576	LYS	CA-C-N	5.10	131.28	121.54
6	G	576	LYS	C-N-CA	5.10	131.28	121.54
3	L	217	GLN	CA-C-O	5.10	125.96	120.55
6	G	833	VAL	N-CA-C	-5.10	101.03	108.17
6	O	393	ARG	N-CA-C	5.10	116.65	111.14
6	G	20	PRO	O-C-N	-5.10	115.45	121.46
6	G	70	GLN	N-CA-C	-5.10	106.84	113.16
6	O	939	THR	N-CA-C	-5.10	99.95	110.80
3	D	228	HIS	CA-C-N	5.09	131.11	122.65
3	D	228	HIS	C-N-CA	5.09	131.11	122.65
6	G	144	LEU	CA-C-O	5.09	125.80	119.79
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	522	GLU	CA-C-N	5.09	127.43	120.35
3	L	522	GLU	C-N-CA	5.09	127.43	120.35
4	M	68	GLU	N-CA-C	5.09	116.83	111.28
3	D	283	SER	N-CA-C	5.09	121.64	110.80
3	D	695	ASP	O-C-N	-5.09	116.75	122.86
4	E	758	VAL	O-C-N	-5.09	117.68	123.18
6	O	144	LEU	CA-C-O	5.09	125.80	119.79
4	E	68	GLU	N-CA-C	5.09	116.83	111.28
2	C	388	ASN	O-C-N	5.09	129.18	123.48
3	D	611	PRO	O-C-N	5.09	129.06	122.24
6	O	296	ASN	O-C-N	5.09	128.34	121.83
6	O	833	VAL	N-CA-C	-5.09	101.05	108.17
2	C	389	SER	O-C-N	-5.09	119.30	123.11
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
4	V	134	SER	CA-C-N	5.09	127.05	120.44
4	V	134	SER	C-N-CA	5.09	127.05	120.44
4	E	772	PHE	CA-C-N	5.08	127.09	120.28
4	E	772	PHE	C-N-CA	5.08	127.09	120.28
2	K	85	CYS	O-C-N	5.08	129.03	122.93
3	L	228	HIS	CA-C-N	5.08	131.09	122.65
3	L	228	HIS	C-N-CA	5.08	131.09	122.65
5	N	93	VAL	CA-C-N	5.08	127.09	120.28
5	N	93	VAL	C-N-CA	5.08	127.09	120.28
6	O	70	GLN	N-CA-C	-5.08	106.86	113.16
2	C	376	ALA	CA-C-N	5.08	130.00	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	376	ALA	C-N-CA	5.08	130.00	122.94
2	K	640	HIS	O-C-N	-5.08	116.84	122.07
6	G	759	LEU	N-CA-C	-5.08	100.18	108.76
2	K	771	ALA	CA-C-O	5.08	125.93	120.55
4	V	42	ARG	N-CA-C	5.08	116.50	111.07
4	E	454	ARG	CA-C-O	-5.07	115.48	120.70
2	K	376	ALA	CA-C-N	5.07	129.99	122.94
2	K	376	ALA	C-N-CA	5.07	129.99	122.94
4	V	490	GLY	CA-C-N	5.07	127.49	120.29
4	V	490	GLY	C-N-CA	5.07	127.49	120.29
2	C	85	CYS	O-C-N	5.07	129.01	122.93
4	E	134	SER	CA-C-N	5.07	127.03	120.44
4	E	134	SER	C-N-CA	5.07	127.03	120.44
3	L	322	VAL	CA-C-O	-5.07	115.97	121.19
6	G	154	ASN	N-CA-C	-5.07	105.65	111.07
6	O	154	ASN	N-CA-C	-5.07	105.65	111.07
2	C	640	HIS	O-C-N	-5.07	116.85	122.07
2	K	246	ARG	N-CA-C	-5.07	100.78	109.24
2	K	700	PHE	CA-C-N	5.07	127.07	120.28
2	K	700	PHE	C-N-CA	5.07	127.07	120.28
3	L	246	THR	CA-C-N	5.07	126.27	121.46
3	L	246	THR	C-N-CA	5.07	126.27	121.46
4	M	490	GLY	CA-C-N	5.07	127.48	120.29
4	M	490	GLY	C-N-CA	5.07	127.48	120.29
4	V	68	GLU	N-CA-C	5.07	116.80	111.28
2	C	136	HIS	N-CA-C	-5.06	100.81	108.46
2	C	758	ALA	CA-C-N	5.06	127.33	120.44
2	C	758	ALA	C-N-CA	5.06	127.33	120.44
5	F	86	ASN	CA-C-N	5.06	127.06	120.28
5	F	86	ASN	C-N-CA	5.06	127.06	120.28
5	N	86	ASN	CA-C-N	5.06	127.06	120.28
5	N	86	ASN	C-N-CA	5.06	127.06	120.28
2	K	136	HIS	N-CA-C	-5.06	100.82	108.46
2	C	246	ARG	N-CA-C	-5.06	100.79	109.24
3	D	247	GLY	N-CA-C	-5.06	103.16	110.90
6	G	759	LEU	CA-C-N	-5.06	116.51	123.14
6	G	759	LEU	C-N-CA	-5.06	116.51	123.14
6	O	263	GLU	N-CA-C	-5.06	106.70	112.92
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	146	MET	CA-C-O	-5.06	115.06	120.42
6	G	176	LEU	CA-C-O	5.06	126.63	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	28	PRO	N-CA-C	-5.06	108.90	114.92
6	O	903	CYS	O-C-N	-5.06	117.02	123.24
6	G	294	ASP	CA-C-O	-5.05	115.19	120.55
2	K	388	ASN	O-C-N	5.05	129.14	123.48
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
4	M	42	ARG	N-CA-C	5.05	116.48	111.07
2	C	700	PHE	CA-C-N	5.05	127.05	120.28
2	C	700	PHE	C-N-CA	5.05	127.05	120.28
4	E	42	ARG	N-CA-C	5.05	116.48	111.07
6	O	194	PHE	N-CA-C	-5.05	100.04	110.80
5	W	86	ASN	CA-C-N	5.05	127.05	120.28
5	W	86	ASN	C-N-CA	5.05	127.05	120.28
6	G	296	ASN	O-C-N	5.05	128.29	121.83
3	L	247	GLY	N-CA-C	-5.05	103.17	110.90
3	L	756	PHE	CA-C-N	5.05	127.05	120.28
3	L	756	PHE	C-N-CA	5.05	127.05	120.28
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
4	V	819	VAL	CA-C-N	5.05	125.20	119.90
4	V	819	VAL	C-N-CA	5.05	125.20	119.90
2	C	256	VAL	O-C-N	-5.05	117.32	123.02
2	C	677	LEU	O-C-N	5.05	127.91	122.15
6	O	759	LEU	CA-C-N	-5.05	116.53	123.14
6	O	759	LEU	C-N-CA	-5.05	116.53	123.14
6	O	771	CYS	CA-C-O	5.05	126.44	120.58
2	C	746	VAL	CA-C-O	-5.04	115.82	121.17
2	C	924	SER	CA-C-N	5.04	129.25	120.68
2	C	924	SER	C-N-CA	5.04	129.25	120.68
3	D	650	GLN	CA-C-N	5.04	127.54	120.28
3	D	650	GLN	C-N-CA	5.04	127.54	120.28
2	C	109	LEU	N-CA-C	-5.04	101.47	109.59
6	G	858	MET	CA-C-N	5.04	126.99	120.44
6	G	858	MET	C-N-CA	5.04	126.99	120.44
6	O	294	ASP	CA-C-O	-5.04	115.21	120.55
3	D	220	THR	N-CA-C	-5.04	103.00	110.46
6	G	564	ILE	N-CA-C	-5.04	105.79	110.53
3	L	570	ASP	CA-C-N	5.04	131.16	121.54
3	L	570	ASP	C-N-CA	5.04	131.16	121.54
4	V	771	ASN	N-CA-C	-5.04	99.90	108.26
2	C	1076	GLU	N-CA-C	5.04	116.46	111.07
6	G	194	PHE	N-CA-C	-5.04	100.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	924	SER	CA-C-N	5.04	129.24	120.68
2	K	924	SER	C-N-CA	5.04	129.24	120.68
2	K	1076	GLU	N-CA-C	5.04	116.46	111.07
3	D	570	ASP	CA-C-N	5.03	131.16	121.54
3	D	570	ASP	C-N-CA	5.03	131.16	121.54
3	D	756	PHE	CA-C-N	5.03	127.03	120.28
3	D	756	PHE	C-N-CA	5.03	127.03	120.28
4	E	668	THR	O-C-N	5.03	128.45	122.26
3	L	650	GLN	CA-C-N	5.03	127.53	120.28
3	L	650	GLN	C-N-CA	5.03	127.53	120.28
6	O	564	ILE	N-CA-C	-5.03	105.80	110.53
7	P	3	LEU	CA-C-N	5.03	127.33	120.54
7	P	3	LEU	C-N-CA	5.03	127.33	120.54
6	G	432	ASP	CA-C-N	5.03	129.55	122.46
6	G	432	ASP	C-N-CA	5.03	129.55	122.46
2	K	109	LEU	N-CA-C	-5.03	101.49	109.59
2	K	177	VAL	N-CA-C	-5.03	107.03	113.22
4	M	454	ARG	CA-C-O	-5.03	115.52	120.70
4	V	78	GLN	O-C-N	5.03	127.45	122.12
4	V	454	ARG	CA-C-O	-5.03	115.52	120.70
6	G	903	CYS	O-C-N	-5.03	117.05	123.24
7	H	290	GLY	N-CA-C	-5.03	108.13	115.72
3	L	758	ALA	CA-C-N	5.03	127.02	120.28
3	L	758	ALA	C-N-CA	5.03	127.02	120.28
4	M	146	GLN	CA-C-O	-5.03	115.52	120.70
4	E	771	ASN	N-CA-C	-5.03	99.92	108.26
3	L	345	VAL	CA-C-O	-5.03	115.83	121.36
3	L	780	VAL	CA-C-N	5.03	131.14	121.54
3	L	780	VAL	C-N-CA	5.03	131.14	121.54
4	V	492	VAL	O-C-N	-5.03	116.65	121.83
2	K	389	SER	O-C-N	-5.03	119.34	123.11
3	L	603	PHE	CA-C-O	-5.03	115.54	120.82
4	E	317	LYS	O-C-N	5.02	129.39	122.46
6	G	771	CYS	CA-C-O	5.02	126.41	120.58
3	L	480	ALA	CA-C-O	5.02	125.91	120.43
6	O	431	PHE	N-CA-C	5.02	116.77	107.73
8	X	228	ALA	N-CA-C	-5.02	105.81	111.28
3	D	246	THR	CA-C-N	5.02	126.23	121.46
3	D	246	THR	C-N-CA	5.02	126.23	121.46
4	E	490	GLY	CA-C-N	5.02	127.42	120.29
4	E	490	GLY	C-N-CA	5.02	127.42	120.29
6	O	829	ARG	N-CA-C	-5.02	99.75	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	483	GLU	CA-C-N	5.02	131.13	121.54
4	E	483	GLU	C-N-CA	5.02	131.13	121.54
2	K	256	VAL	O-C-N	-5.02	117.35	123.02
2	K	803	PRO	N-CA-C	-5.02	102.13	112.47
4	M	78	GLN	O-C-N	5.02	127.44	122.12
2	C	568	ILE	CA-C-N	5.02	130.86	122.73
2	C	568	ILE	C-N-CA	5.02	130.86	122.73
4	M	316	MET	CA-C-O	5.02	126.75	121.33
2	C	552	ALA	N-CA-C	-5.02	105.70	111.07
2	C	1074	PRO	CA-C-N	5.02	129.21	120.68
2	C	1074	PRO	C-N-CA	5.02	129.21	120.68
6	G	431	PHE	N-CA-C	5.02	116.76	107.73
2	K	576	ASN	CA-C-O	-5.02	115.10	120.42
3	L	220	THR	N-CA-C	-5.02	103.04	110.46
4	E	492	VAL	O-C-N	-5.01	116.67	121.83
6	O	858	MET	CA-C-N	5.01	126.96	120.44
6	O	858	MET	C-N-CA	5.01	126.96	120.44
4	V	127	ALA	O-C-N	-5.01	116.91	122.07
3	D	780	VAL	CA-C-N	5.01	131.11	121.54
3	D	780	VAL	C-N-CA	5.01	131.11	121.54
2	C	803	PRO	N-CA-C	-5.01	102.14	112.47
8	Z	228	ALA	N-CA-C	-5.01	105.82	111.28
2	C	177	VAL	N-CA-C	-5.01	107.06	113.22
2	K	568	ILE	CA-C-N	5.01	130.85	122.73
2	K	568	ILE	C-N-CA	5.01	130.85	122.73
7	P	37	PRO	CA-C-O	-5.01	111.48	120.60
4	V	146	GLN	CA-C-O	-5.01	115.54	120.70
2	C	480	LYS	CA-C-O	5.01	125.52	119.31
3	D	416	LYS	CA-C-O	5.01	125.88	120.32
4	E	316	MET	CA-C-O	5.01	126.74	121.33
6	G	829	ARG	N-CA-C	-5.01	99.78	109.24
2	K	552	ALA	N-CA-C	-5.01	105.71	111.07
2	K	664	ALA	O-C-N	5.01	127.86	122.15
3	L	48	THR	N-CA-C	-5.01	101.24	109.40
3	L	297	VAL	O-C-N	-5.01	117.64	123.00
6	O	176	LEU	CA-C-O	5.01	126.57	120.31
2	C	664	ALA	O-C-N	5.00	127.86	122.15
3	L	346	LYS	N-CA-C	-5.00	101.71	109.72
3	D	55	VAL	CA-C-O	5.00	126.60	121.05
3	D	346	LYS	N-CA-C	-5.00	101.71	109.72
4	E	78	GLN	O-C-N	5.00	127.42	122.12
5	F	56	ASP	O-C-N	-5.00	117.38	123.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	1074	PRO	CA-C-N	5.00	129.19	120.68
2	K	1074	PRO	C-N-CA	5.00	129.19	120.68
3	D	738	LEU	N-CA-C	-5.00	106.49	112.59
3	D	758	ALA	CA-C-N	5.00	126.98	120.28
3	D	758	ALA	C-N-CA	5.00	126.98	120.28
4	V	483	GLU	CA-C-N	5.00	131.09	121.54
4	V	483	GLU	C-N-CA	5.00	131.09	121.54

There are no chirality outliers.

All (55) 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
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

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Mol	Chain	Res	Type	Group
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
4	V	309	ARG	Peptide
4	V	323	THR	Peptide
4	V	442	PHE	Peptide
4	V	447	GLU	Peptide
5	W	59	ILE	Mainchain

5.2 Too-close contacts [i](#)

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
1	B	636	0	181	1	0
1	I	636	0	181	1	0
1	J	636	0	181	3	0
1	R	636	0	181	1	0
2	C	4503	0	1194	3	0
2	K	4503	0	1194	0	0
3	D	3211	0	880	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	L	3211	0	880	18	0
4	E	3294	0	852	1	0
4	M	2199	0	570	1	0
4	V	3294	0	852	17	0
5	F	555	0	148	0	0
5	N	555	0	148	0	0
5	W	555	0	148	0	0
6	G	3250	0	833	0	0
6	O	3250	0	833	0	0
7	H	1520	0	406	3	0
7	P	539	0	142	0	0
8	X	1169	0	303	0	0
8	Z	1169	0	303	0	0
All	All	39957	0	10591	36	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 1.

All (36) 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)
3:L:349:GLY:HA2	4:V:206:ASN:C	1.53	1.32
3:L:349:GLY:HA2	4:V:206:ASN:O	1.39	1.18
3:L:350:SER:H	4:V:207:ASP:N	1.42	1.16
3:L:350:SER:H	4:V:207:ASP:CA	1.58	1.14
3:L:351:CYS:N	4:V:210:ALA:CA	2.24	1.01
3:L:349:GLY:CA	4:V:206:ASN:C	2.34	1.00
3:D:270:GLY:HA3	1:J:137:ALA:CA	1.95	0.97
3:L:349:GLY:CA	4:V:206:ASN:O	2.12	0.97
3:L:350:SER:N	4:V:207:ASP:N	2.17	0.93
2:C:607:LYS:CA	2:C:1130:GLU:O	2.18	0.92
3:L:351:CYS:H	4:V:210:ALA:CA	1.81	0.89
3:L:350:SER:N	4:V:207:ASP:CA	2.38	0.85
7:H:296:GLU:CA	7:H:368:THR:H	1.95	0.79
3:L:350:SER:CA	4:V:210:ALA:H	2.01	0.73
7:H:356:ASN:CA	7:H:362:LEU:H	2.10	0.65
3:L:351:CYS:N	4:V:210:ALA:N	2.46	0.64
2:C:607:LYS:CA	2:C:1130:GLU:C	2.85	0.49
3:L:350:SER:C	4:V:210:ALA:H	2.19	0.49
7:H:356:ASN:C	7:H:362:LEU:H	2.20	0.49
3:L:349:GLY:CA	4:V:207:ASP:N	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:350:SER:C	4:V:210:ALA:N	2.72	0.48
2:C:608:TYR:N	2:C:1130:GLU:O	2.47	0.48
4:V:249:SER:C	4:V:251:LEU:H	2.23	0.46
4:E:249:SER:C	4:E:251:LEU:H	2.23	0.46
4:M:249:SER:C	4:M:251:LEU:H	2.23	0.46
1:I:175:ASN:O	1:I:176:SER:C	2.60	0.45
1:A:175:ASN:O	1:A:176:SER:C	2.60	0.45
1:B:175:ASN:O	1:B:176:SER:C	2.60	0.44
3:L:376:ILE:CA	4:V:245:GLY:HA2	2.47	0.44
1:R:175:ASN:O	1:R:176:SER:C	2.60	0.44
1:J:175:ASN:O	1:J:176:SER:C	2.60	0.44
3:D:270:GLY:CA	1:J:137:ALA:CA	2.82	0.43
3:D:162:SER:C	3:D:164:ASP:H	2.27	0.43
3:L:162:SER:C	3:L:164:ASP:H	2.27	0.42
3:L:76:ALA:C	3:L:78:ASP:H	2.28	0.42
3:D:76:ALA:C	3:D:78:ASP:H	2.28	0.41

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
1	R	157/181 (87%)	153 (98%)	4 (2%)	0	100	100
2	C	1122/1262 (89%)	972 (87%)	104 (9%)	46 (4%)	2	18
2	K	1122/1262 (89%)	972 (87%)	104 (9%)	46 (4%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	D	801/905 (88%)	700 (87%)	64 (8%)	37 (5%)	2	17
3	L	801/905 (88%)	701 (88%)	63 (8%)	37 (5%)	2	17
4	E	820/874 (94%)	749 (91%)	40 (5%)	31 (4%)	2	19
4	M	548/874 (63%)	492 (90%)	27 (5%)	29 (5%)	1	15
4	V	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
5	W	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	133/511 (26%)	116 (87%)	16 (12%)	1 (1%)	16	54
8	X	290/308 (94%)	276 (95%)	9 (3%)	5 (2%)	7	36
8	Z	290/308 (94%)	276 (95%)	10 (3%)	4 (1%)	9	40
All	All	9937/11966 (83%)	8804 (89%)	717 (7%)	416 (4%)	3	17

All (416) 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
2	C	949	VAL
2	C	999	VAL
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

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Mol	Chain	Res	Type
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
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
2	K	949	VAL
2	K	999	VAL

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
6	O	939	THR
6	O	959	ILE
4	V	117	GLU
4	V	280	CYS
4	V	309	ARG
4	V	323	THR
4	V	324	ALA
4	V	391	PRO
4	V	393	LYS
4	V	413	TYR
4	V	448	PHE
4	V	549	ASN
5	W	36	PRO
8	X	111	SER
8	X	231	ARG
8	Z	111	SER
8	Z	231	ARG
2	C	137	TYR
2	C	226	ASP
2	C	425	ARG
2	C	441	LYS
2	C	498	ALA
2	C	538	SER
2	C	546	SER
2	C	621	VAL
2	C	642	VAL
2	C	1178	ARG
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
4	E	739	THR

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Mol	Chain	Res	Type
4	E	741	GLU
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	337	LYS
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	630	GLN
2	K	642	VAL
2	K	1178	ARG
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
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
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

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Mol	Chain	Res	Type
4	V	263	HIS
4	V	310	THR
4	V	313	LYS
4	V	373	ASP
4	V	442	PHE
4	V	484	HIS
4	V	551	LEU
4	V	739	THR
4	V	741	GLU
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	630	GLN
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
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

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Mol	Chain	Res	Type
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	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	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
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

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Mol	Chain	Res	Type
6	O	528	SER
6	O	817	ASN
6	O	904	GLY
7	P	45	GLN
4	V	256	GLU
4	V	353	SER
4	V	522	ASN
4	V	569	PRO
5	W	55	THR
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
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

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Mol	Chain	Res	Type
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
4	V	40	ASN
4	V	251	LEU
4	V	464	PRO
8	X	113	ASP
8	Z	113	ASP
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
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

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Mol	Chain	Res	Type
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
4	V	221	HIS
4	V	311	LEU
4	V	410	GLY
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
3	D	355	PRO
6	G	540	PRO
2	K	780	PRO
2	K	799	ALA
3	L	355	PRO
6	O	540	PRO
8	X	213	SER

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Mol	Chain	Res	Type
8	Z	213	SER
3	D	762	LEU
4	E	278	PRO
6	G	531	ARG
3	L	762	LEU
4	M	278	PRO
6	O	531	ARG
4	V	278	PRO
3	D	200	PRO
4	E	556	PRO
6	G	317	VAL
3	L	200	PRO
4	M	556	PRO
6	O	317	VAL
4	V	556	PRO
2	C	247	GLY
2	C	488	ILE
2	K	247	GLY
2	K	488	ILE
8	X	45	SER

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

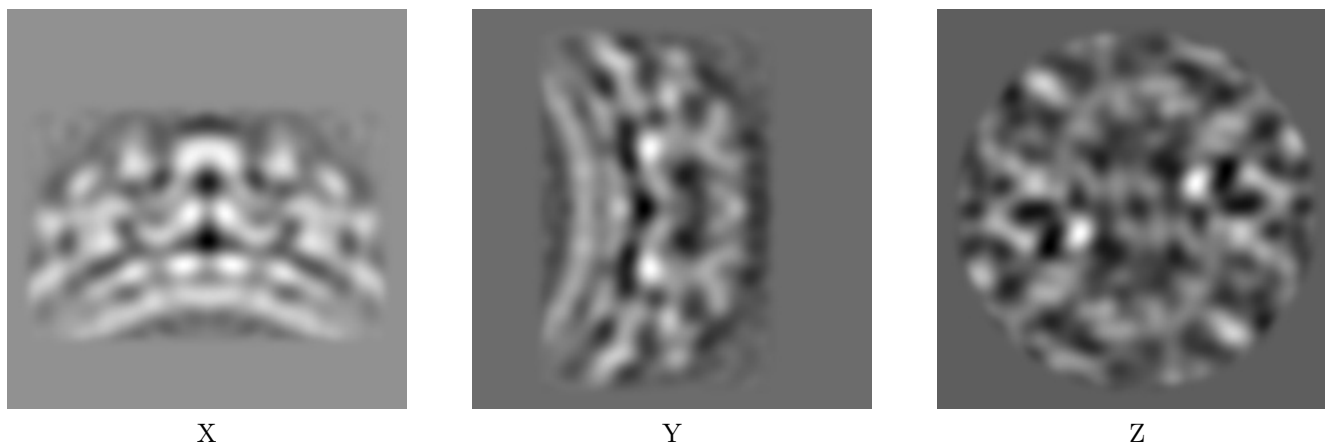
5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Tomogram visualisation [i](#)

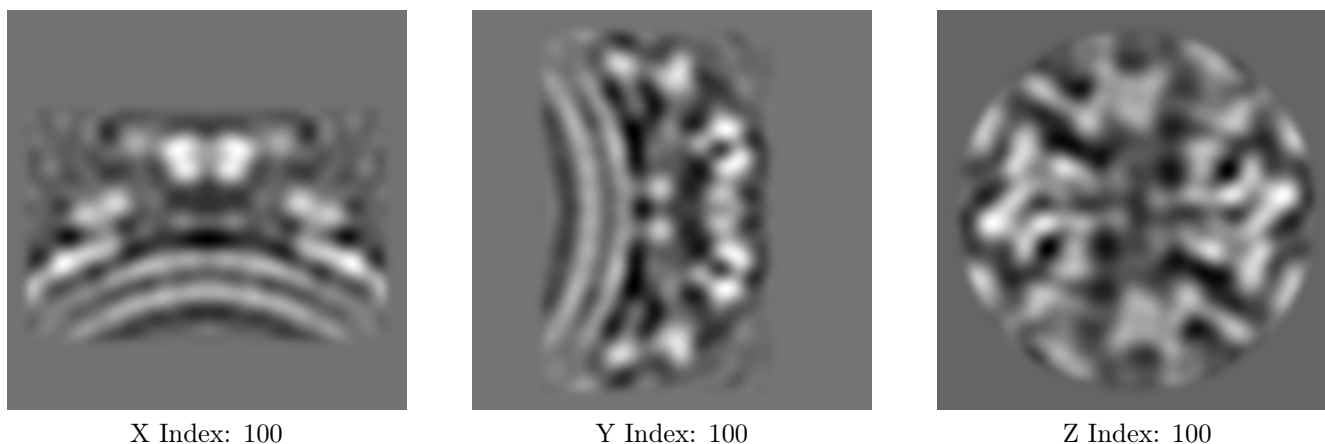
This section contains visualisations of the EMDB entry EMD-2989. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

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: 70



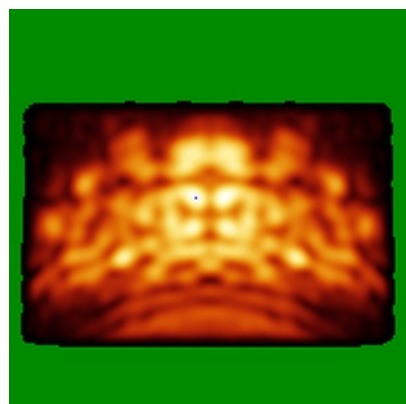
Y Index: 108



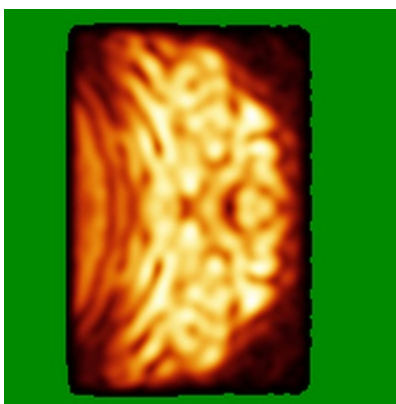
Z Index: 78

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

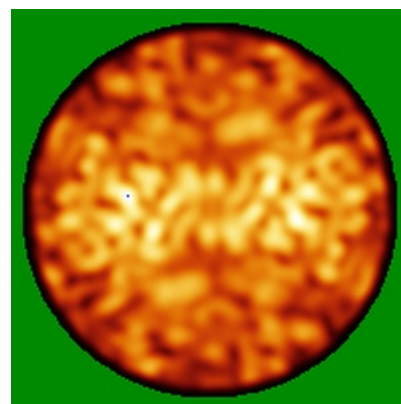
6.4 Orthogonal standard-deviation projections (False-color) [i](#)



X



Y



Z

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

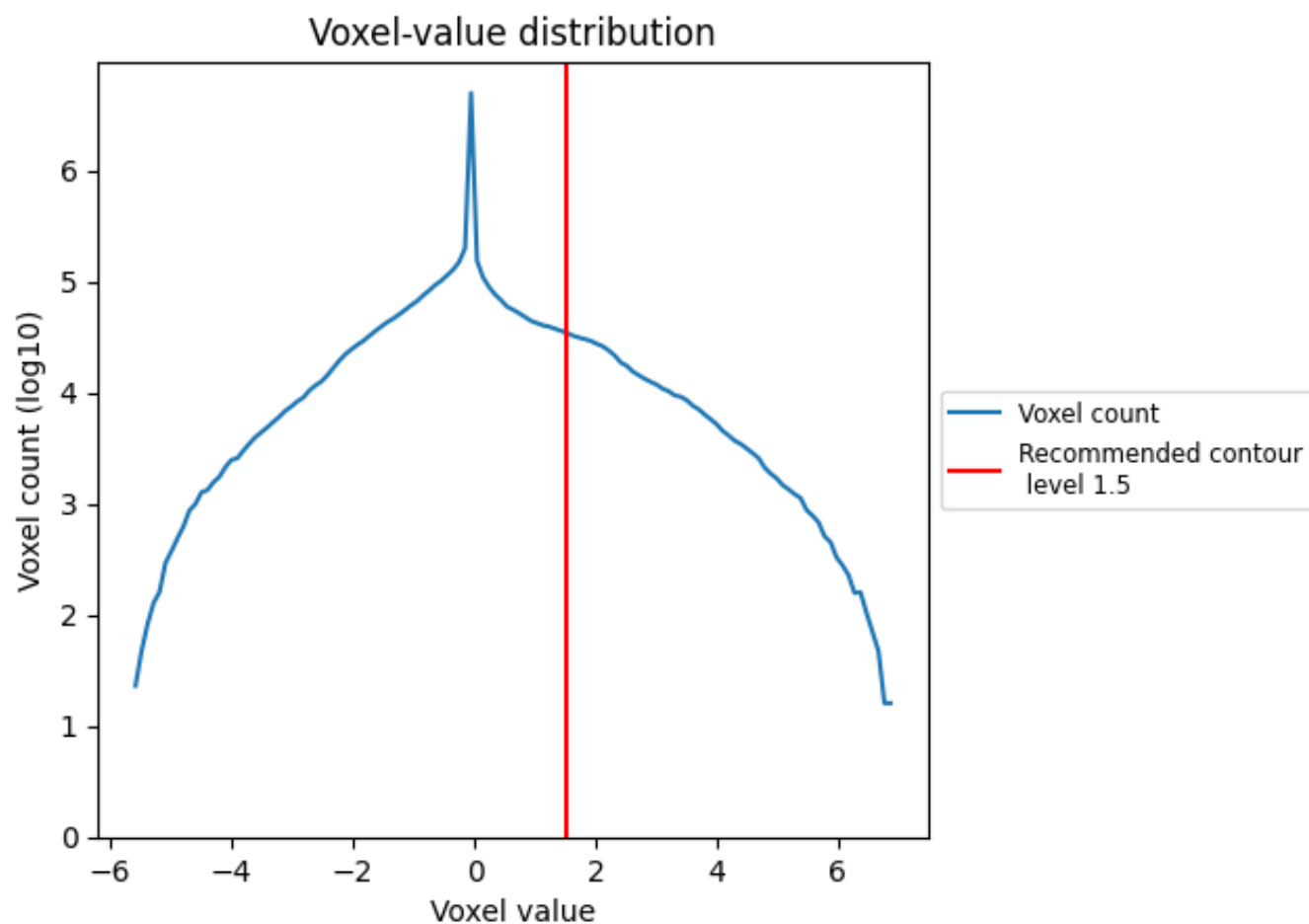
6.5 Mask visualisation [i](#)

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.

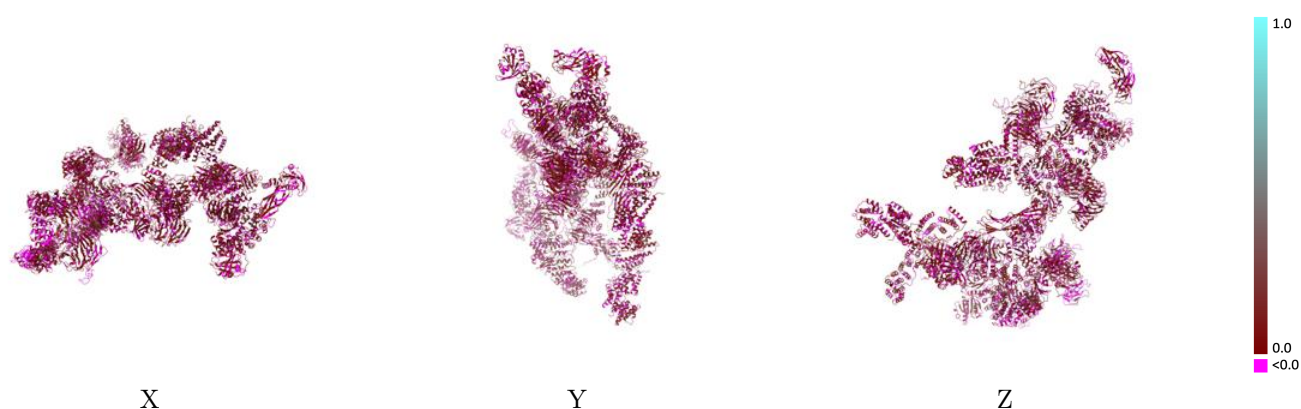
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-2989 and PDB model 5A1Y. 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](#)

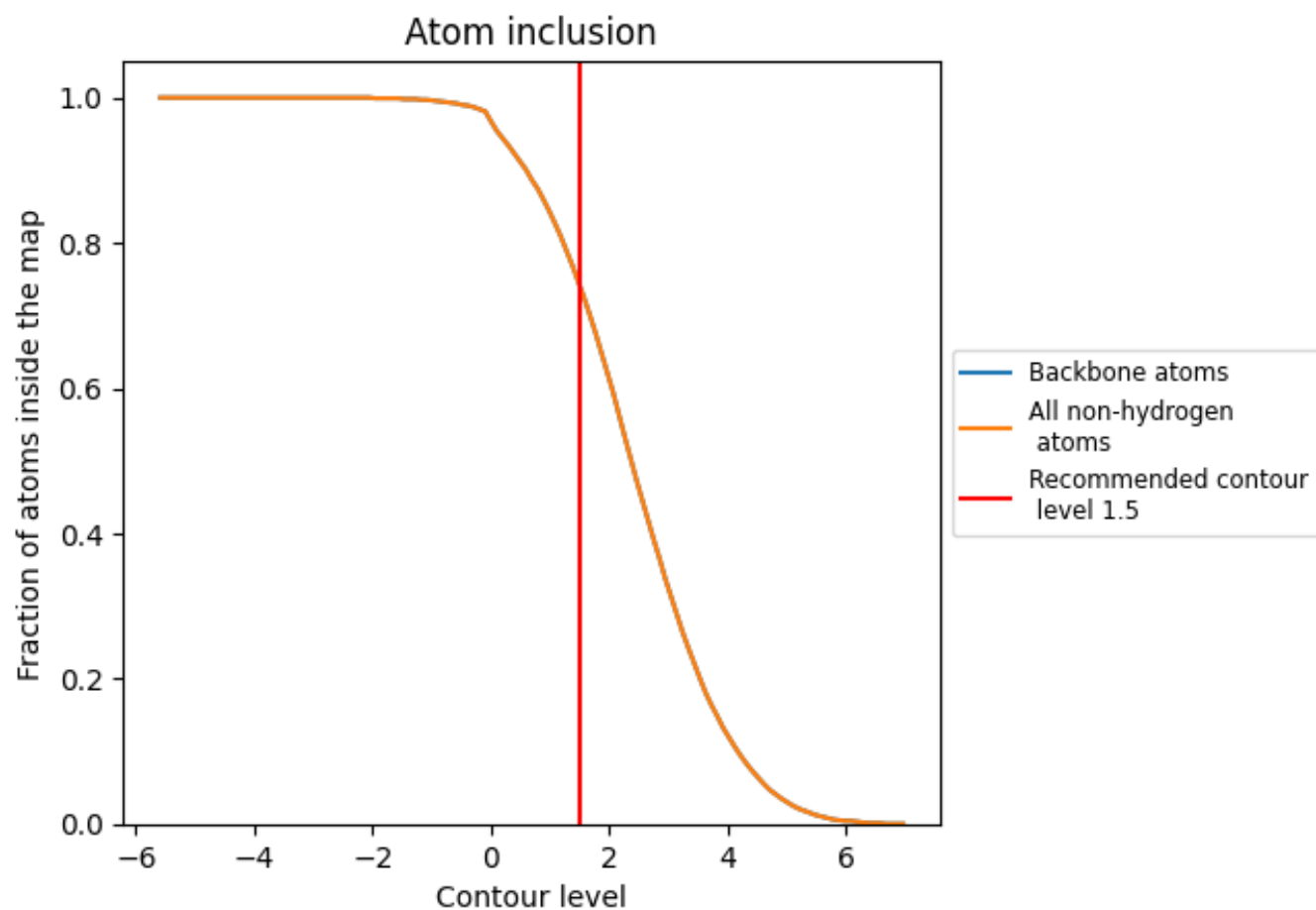


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 74% of all backbone atoms, 74% 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	 0.7410	 0.0600
A	 0.6970	 0.0490
B	 0.8900	 0.0590
C	 0.8900	 0.0680
D	 0.8710	 0.0730
E	 0.7790	 0.0660
F	 0.7860	 0.0710
G	 0.8630	 0.0710
H	 0.7160	 0.0640
I	 0.2280	 0.0330
J	 0.4830	 0.0500
K	 0.6960	 0.0530
L	 0.8180	 0.0690
M	 0.4000	 0.0220
N	 0.5280	 0.0670
O	 0.5500	 0.0470
P	 0.7740	 0.0440
R	 0.6890	 0.0540
V	 0.7410	 0.0680
W	 0.8310	 0.0590
X	 0.9150	 0.0690
Z	 0.7820	 0.0490

