



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 02:00 PM UTC

PDB ID : 5A1V / pdb_00005a1v
EMDB ID : EMD-2986
Title : The structure of the COPI coat linkage I
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:

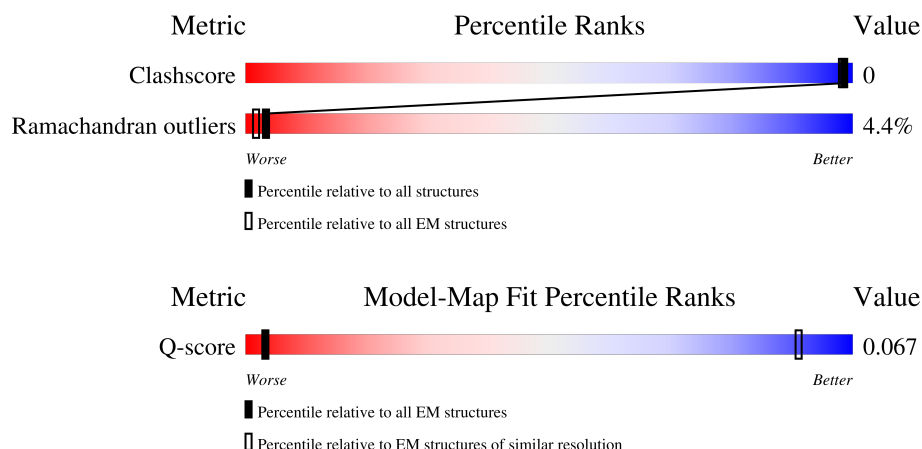
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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	14% 86% 12%
1	B	181	42% 86% 12%
1	I	181	17% 86% 12%
1	J	181	23% 86% 12%
1	R	181	12% 86% 12%

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Mol	Chain	Length	Quality of chain
1	S	181	
2	C	1262	
2	K	1262	
2	T	1262	
3	D	905	
3	L	905	
3	U	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	
6	X	968	
7	H	511	
7	P	511	
7	Y	511	
8	Q	308	
8	Z	308	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 50958 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		
1	S	159	Total	C	N	O	0	0
			636	318	159	159		

- Molecule 2 is a protein called COATOMER SUBUNIT ALPHA.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	C	813	Total	C	N	O	0	0
			3251	1626	813	812		
2	K	1126	Total	C	N	O	0	0
			4503	2252	1126	1125		
2	T	1126	Total	C	N	O	0	0
			4503	2252	1126	1125		

There are 114 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

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1232	PRO	-	expression tag	UNP Q8CIE6
C	1233	SER	-	expression tag	UNP Q8CIE6
C	1234	ALA	-	expression tag	UNP Q8CIE6
C	1235	TRP	-	expression tag	UNP Q8CIE6
C	1236	SER	-	expression tag	UNP Q8CIE6
C	1237	HIS	-	expression tag	UNP Q8CIE6
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

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Chain	Residue	Modelled	Actual	Comment	Reference
K	1236	SER	-	expression tag	UNP Q8CIE6
K	1237	HIS	-	expression tag	UNP Q8CIE6
K	1238	PRO	-	expression tag	UNP Q8CIE6
K	1239	GLN	-	expression tag	UNP Q8CIE6
K	1240	PHE	-	expression tag	UNP Q8CIE6
K	1241	GLU	-	expression tag	UNP Q8CIE6
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
T	1225	LEU	-	expression tag	UNP Q8CIE6
T	1226	GLU	-	expression tag	UNP Q8CIE6
T	1227	VAL	-	expression tag	UNP Q8CIE6
T	1228	LEU	-	expression tag	UNP Q8CIE6
T	1229	PHE	-	expression tag	UNP Q8CIE6
T	1230	GLN	-	expression tag	UNP Q8CIE6
T	1231	GLY	-	expression tag	UNP Q8CIE6
T	1232	PRO	-	expression tag	UNP Q8CIE6
T	1233	SER	-	expression tag	UNP Q8CIE6
T	1234	ALA	-	expression tag	UNP Q8CIE6
T	1235	TRP	-	expression tag	UNP Q8CIE6
T	1236	SER	-	expression tag	UNP Q8CIE6
T	1237	HIS	-	expression tag	UNP Q8CIE6
T	1238	PRO	-	expression tag	UNP Q8CIE6
T	1239	GLN	-	expression tag	UNP Q8CIE6

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Chain	Residue	Modelled	Actual	Comment	Reference
T	1240	PHE	-	expression tag	UNP Q8CIE6
T	1241	GLU	-	expression tag	UNP Q8CIE6
T	1242	LYS	-	expression tag	UNP Q8CIE6
T	1243	GLY	-	expression tag	UNP Q8CIE6
T	1244	GLY	-	expression tag	UNP Q8CIE6
T	1245	GLY	-	expression tag	UNP Q8CIE6
T	1246	SER	-	expression tag	UNP Q8CIE6
T	1247	GLY	-	expression tag	UNP Q8CIE6
T	1248	GLY	-	expression tag	UNP Q8CIE6
T	1249	GLY	-	expression tag	UNP Q8CIE6
T	1250	SER	-	expression tag	UNP Q8CIE6
T	1251	GLY	-	expression tag	UNP Q8CIE6
T	1252	GLY	-	expression tag	UNP Q8CIE6
T	1253	SER	-	expression tag	UNP Q8CIE6
T	1254	ALA	-	expression tag	UNP Q8CIE6
T	1255	TRP	-	expression tag	UNP Q8CIE6
T	1256	SER	-	expression tag	UNP Q8CIE6
T	1257	HIS	-	expression tag	UNP Q8CIE6
T	1258	PRO	-	expression tag	UNP Q8CIE6
T	1259	GLN	-	expression tag	UNP Q8CIE6
T	1260	PHE	-	expression tag	UNP Q8CIE6
T	1261	GLU	-	expression tag	UNP Q8CIE6
T	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		
3	U	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	824	Total	C	N	O	0	0
			3294	1648	824	822		

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

There are 45 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

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

- Molecule 7 is a protein called COATOMER SUBUNIT DELTA.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	H	135	Total	C	N	O	0	0
			539	270	135	134		
7	P	135	Total	C	N	O	0	0
			539	270	135	134		
7	Y	135	Total	C	N	O	0	0
			539	270	135	134		

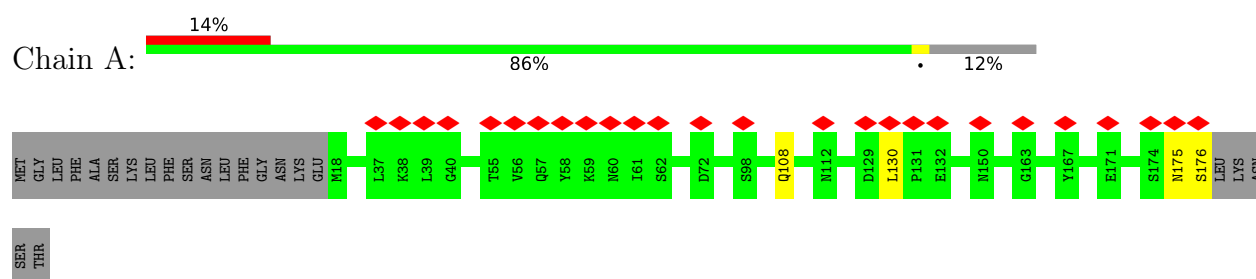
- Molecule 8 is a protein called COATOMER SUBUNIT EPSILON.

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

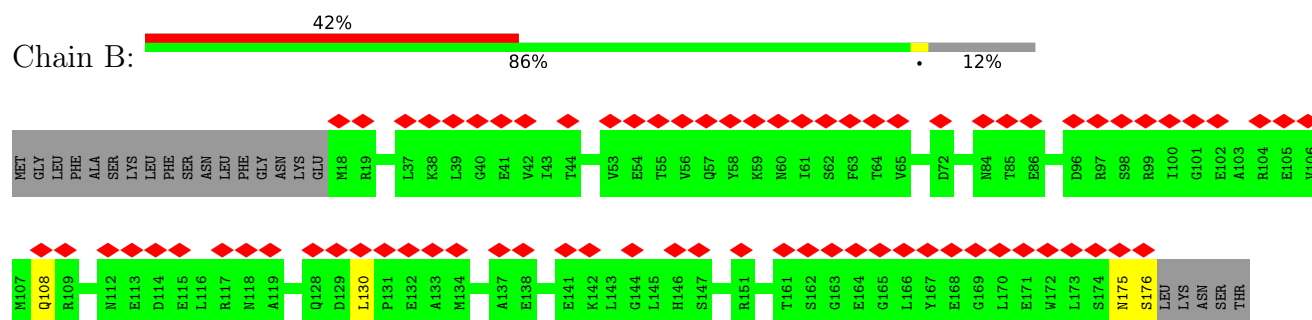
3 Residue-property plots

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.

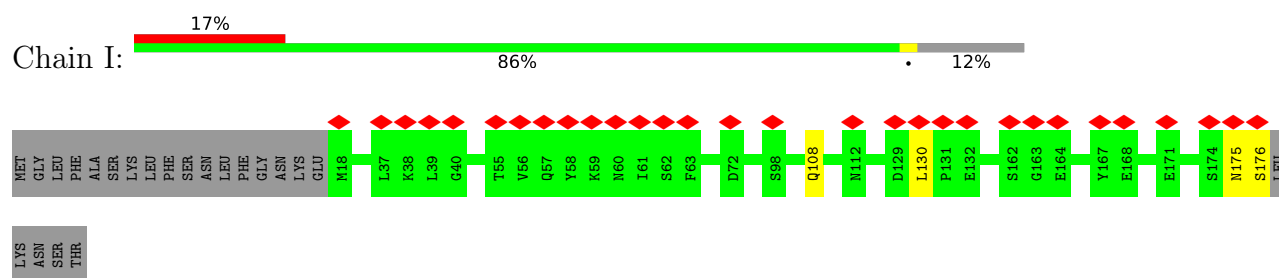
• Molecule 1: ADP-RIBOSYLATION FACTOR 1



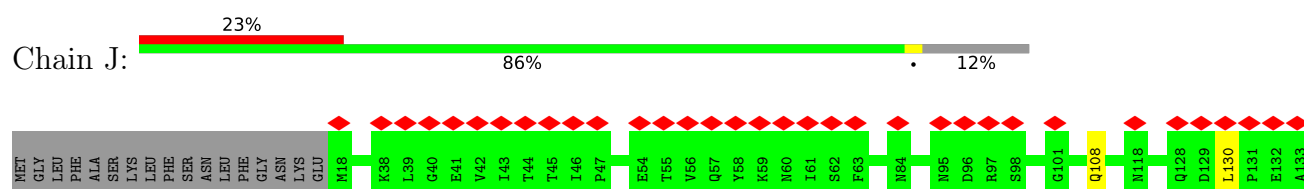
• Molecule 1: ADP-RIBOSYLATION FACTOR 1



• Molecule 1: ADP-RIBOSYLATION FACTOR 1

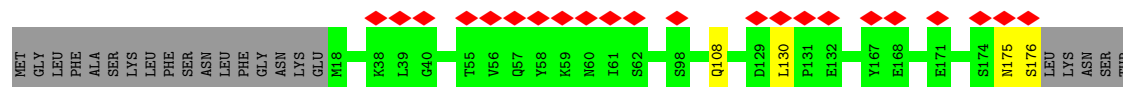
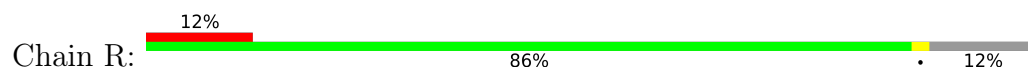


• Molecule 1: ADP-RIBOSYLATION FACTOR 1

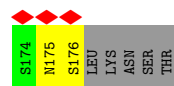
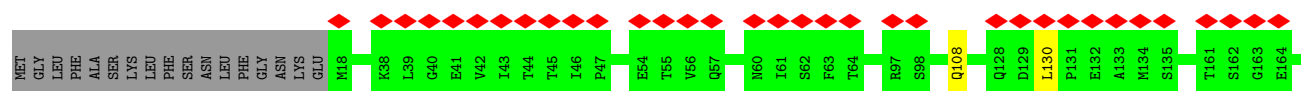
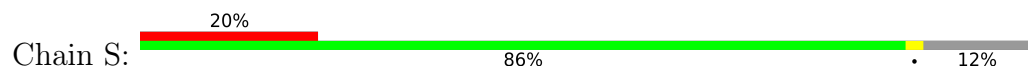




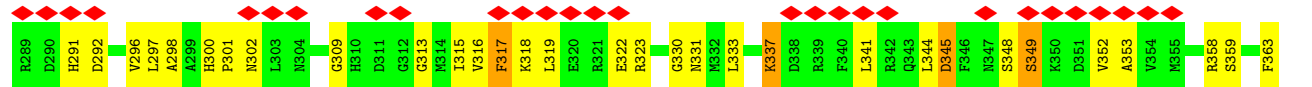
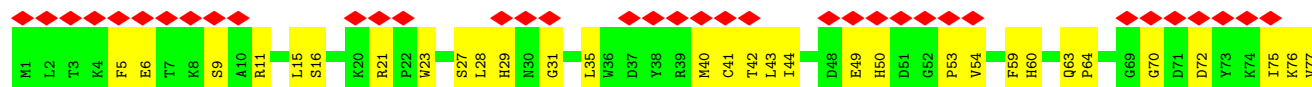
• Molecule 1: ADP-RIBOSYLATION FACTOR 1

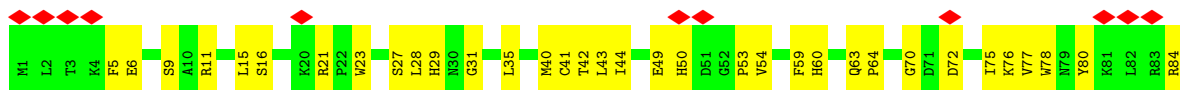


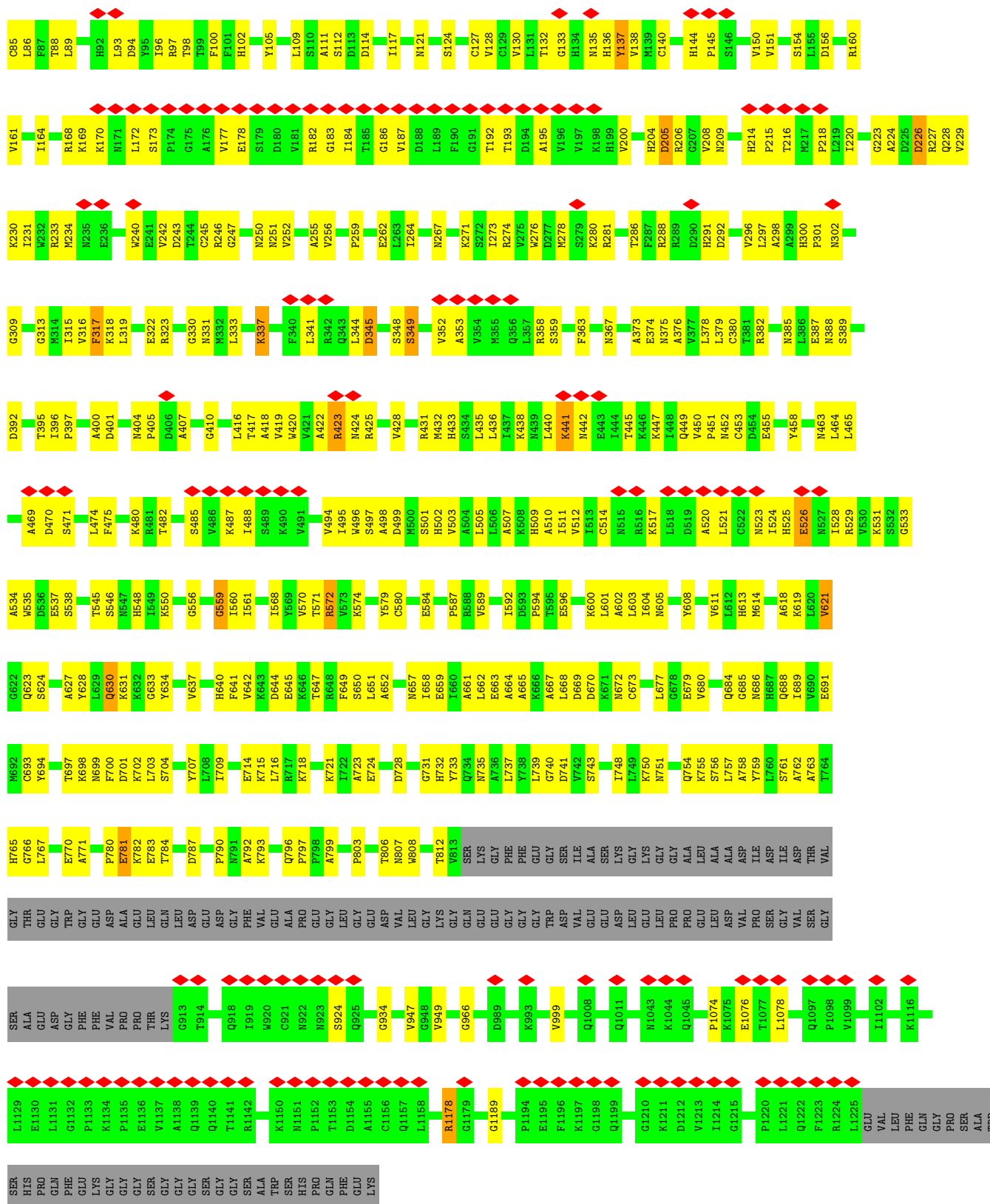
• Molecule 1: ADP-RIBOSYLATION FACTOR 1



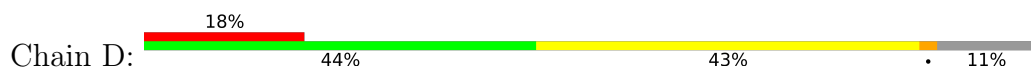
• Molecule 2: COATOMER SUBUNIT ALPHA

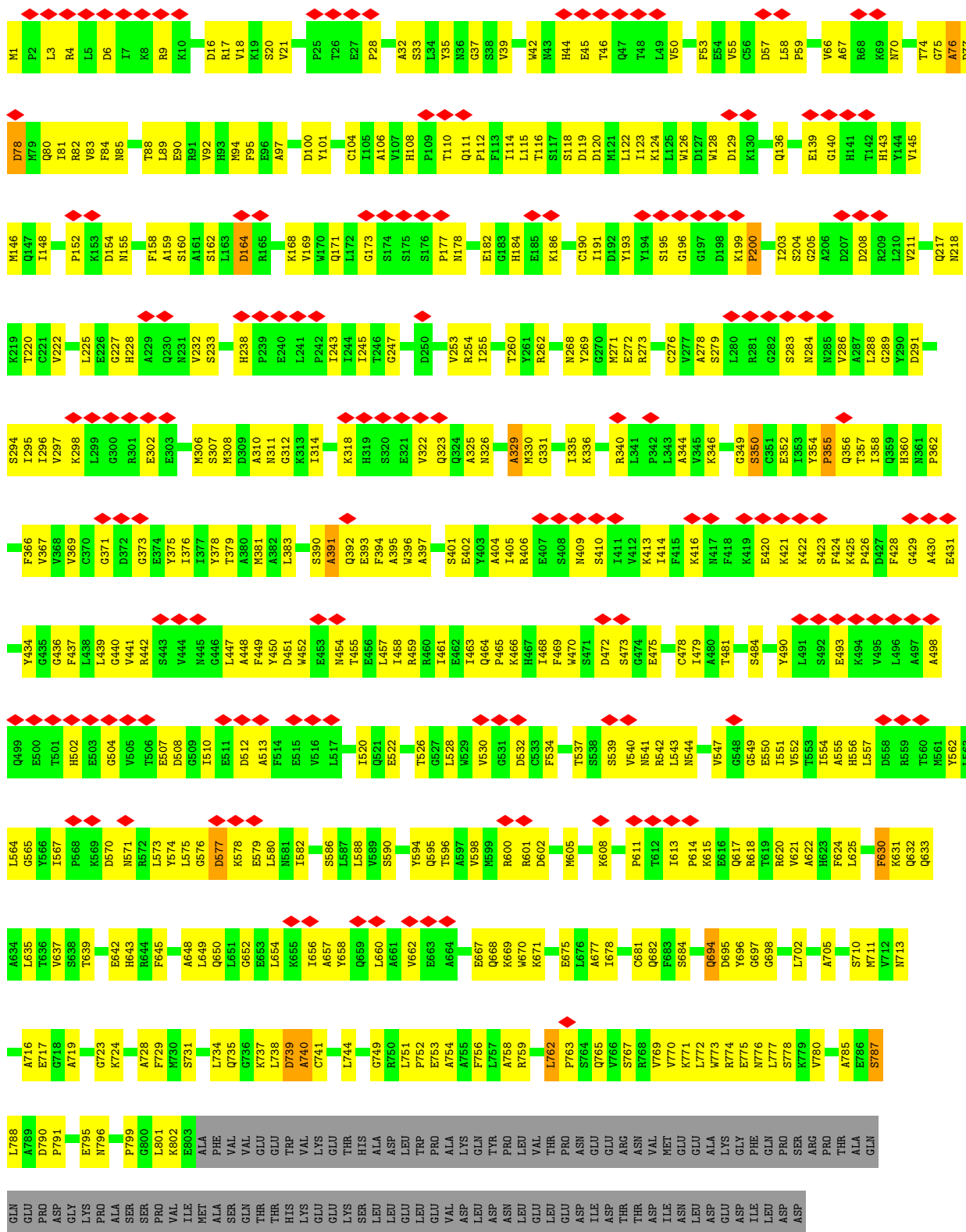






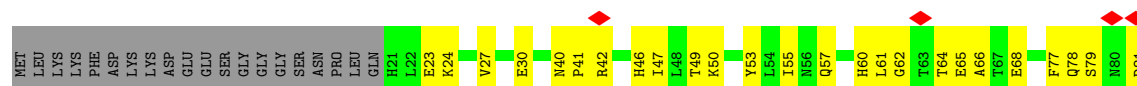
• Molecule 3: COATOMER SUBUNIT BETA

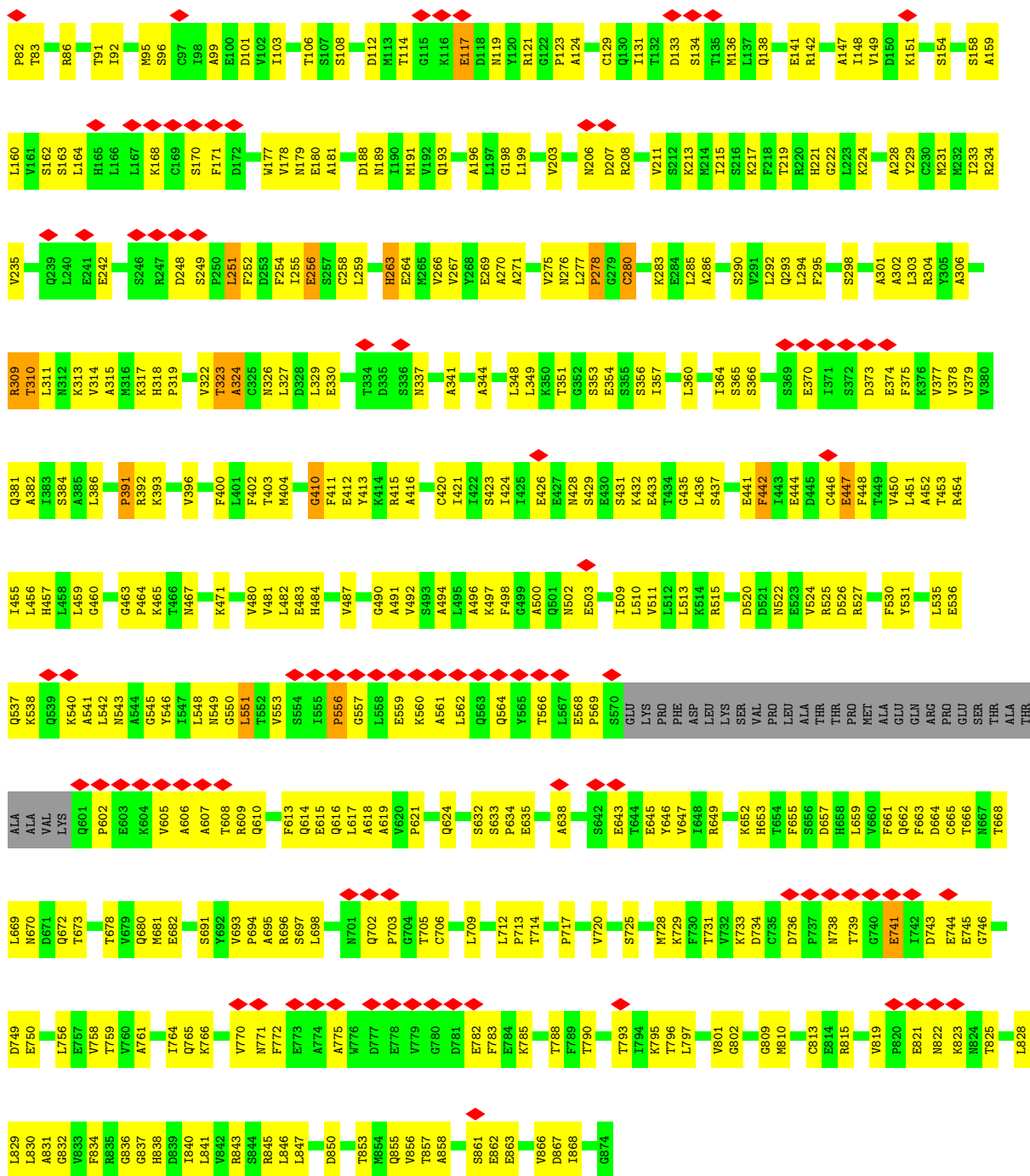




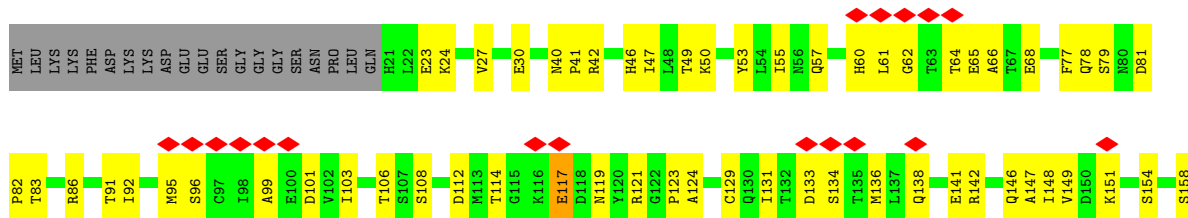
• Molecule 3: COATOMER SUBUNIT BETA

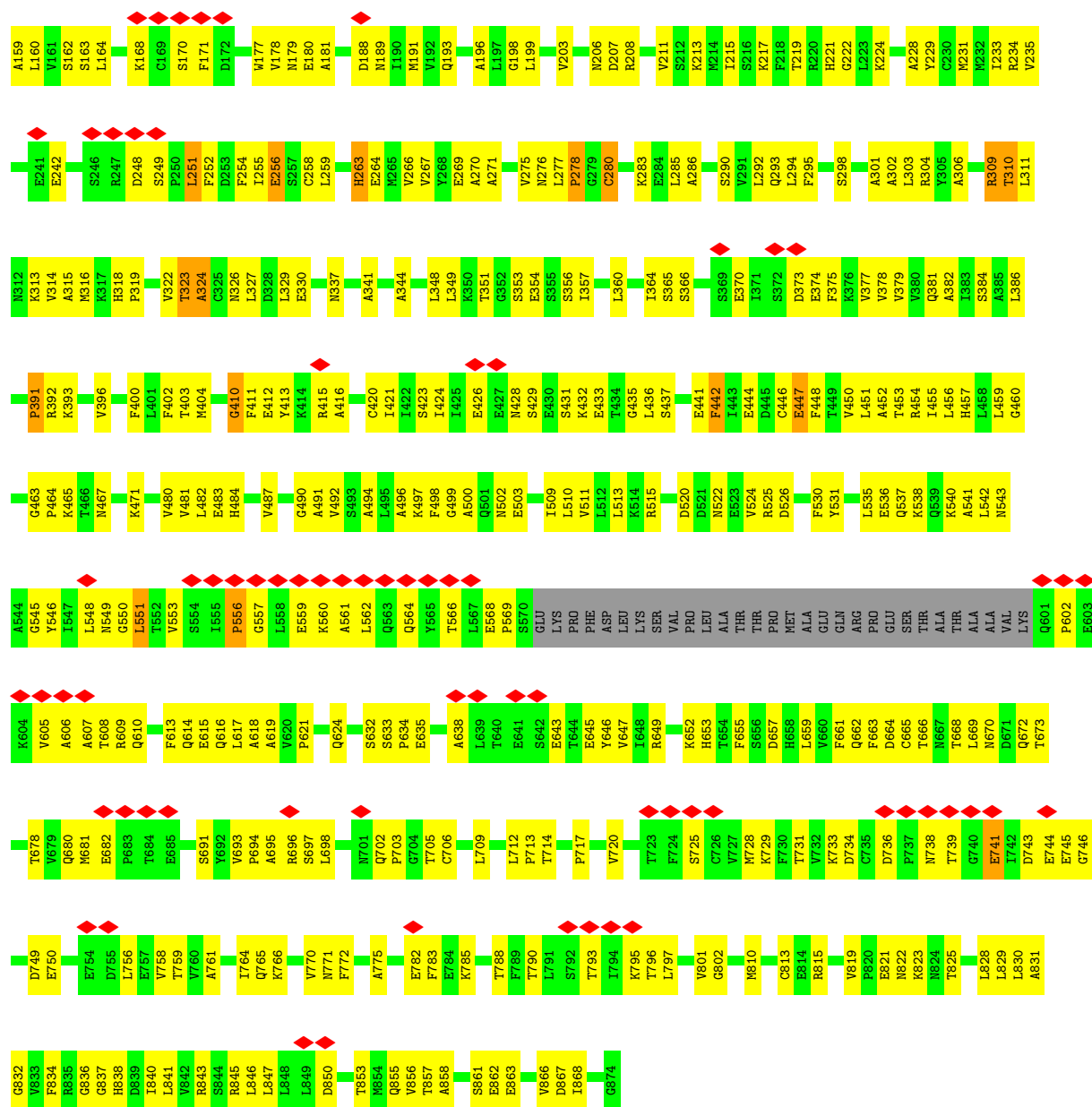
Chain L: 14% 44% 43% 11%



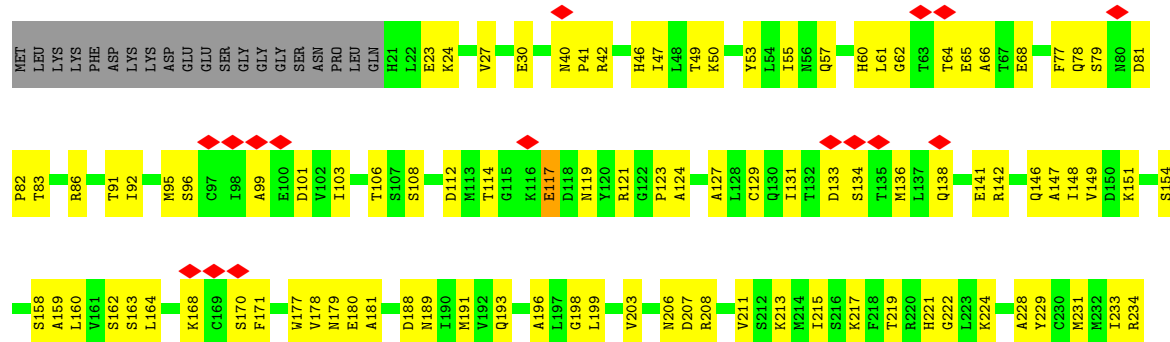


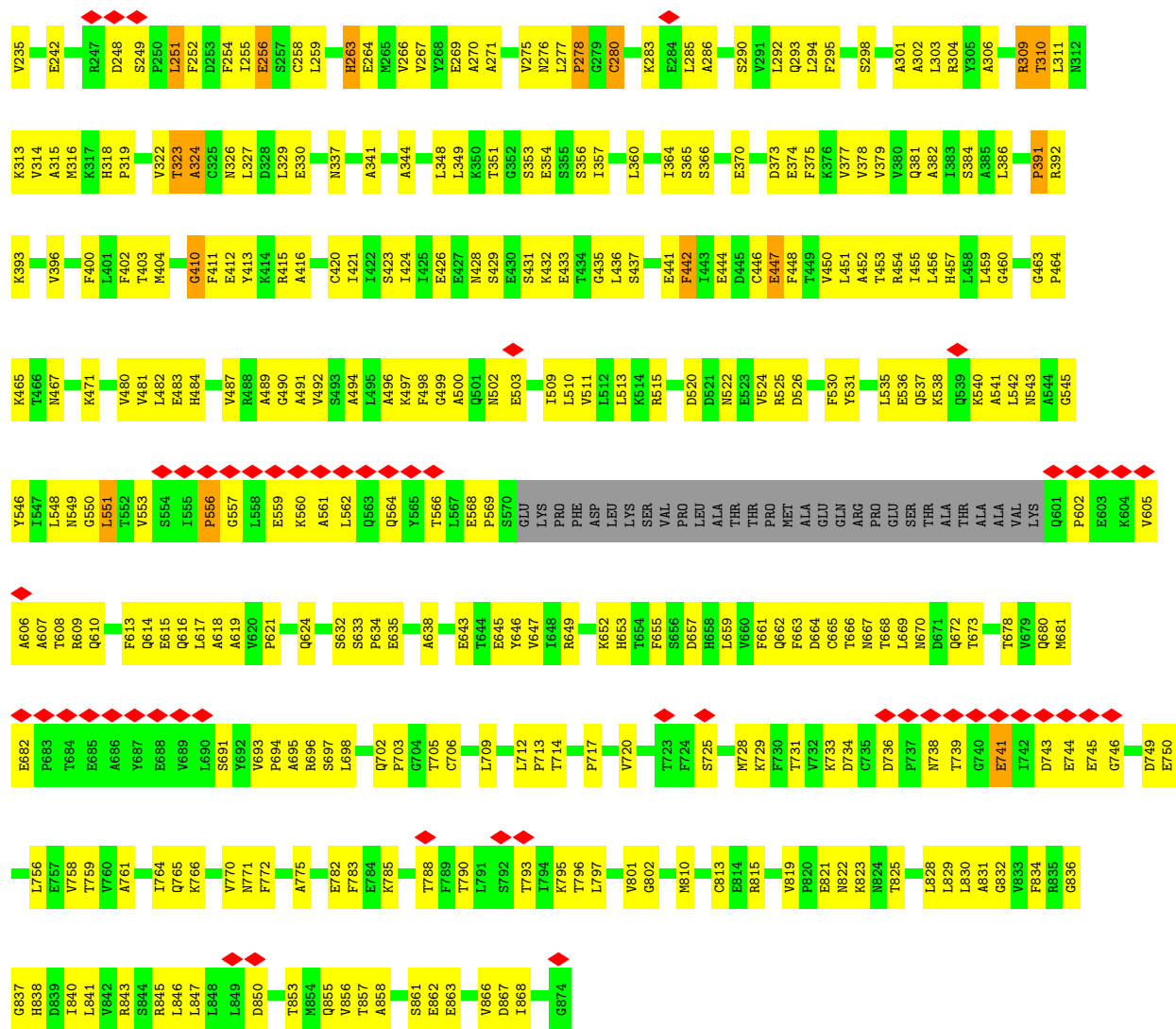
• Molecule 4: COATOMER SUBUNIT GAMMA-1



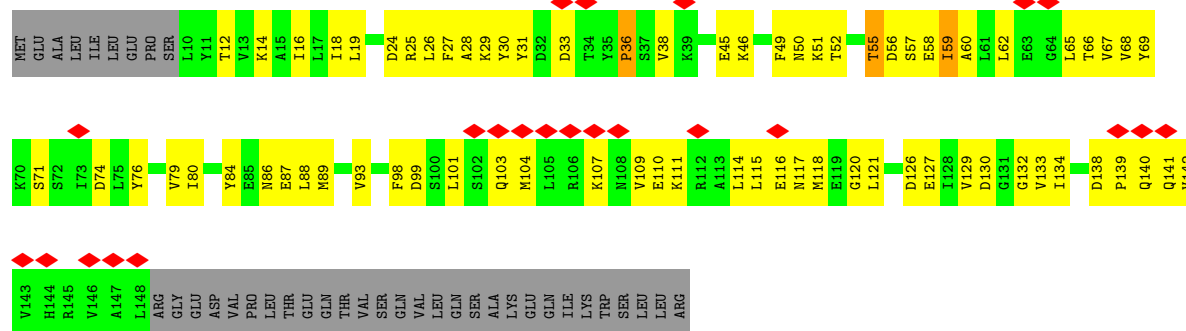


• Molecule 4: COATOMER SUBUNIT GAMMA-1



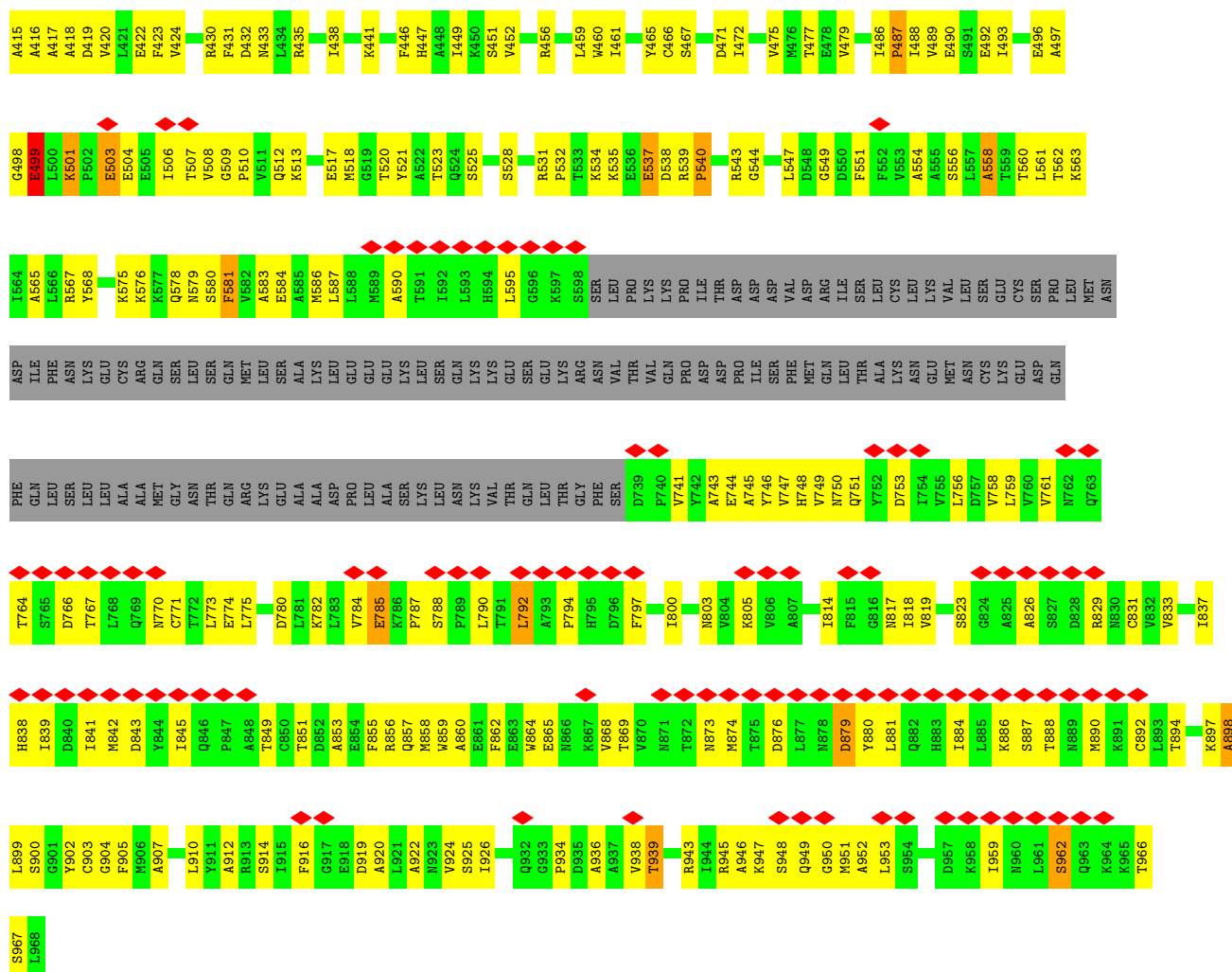


• Molecule 5: COATOMER SUBUNIT ZETA-1

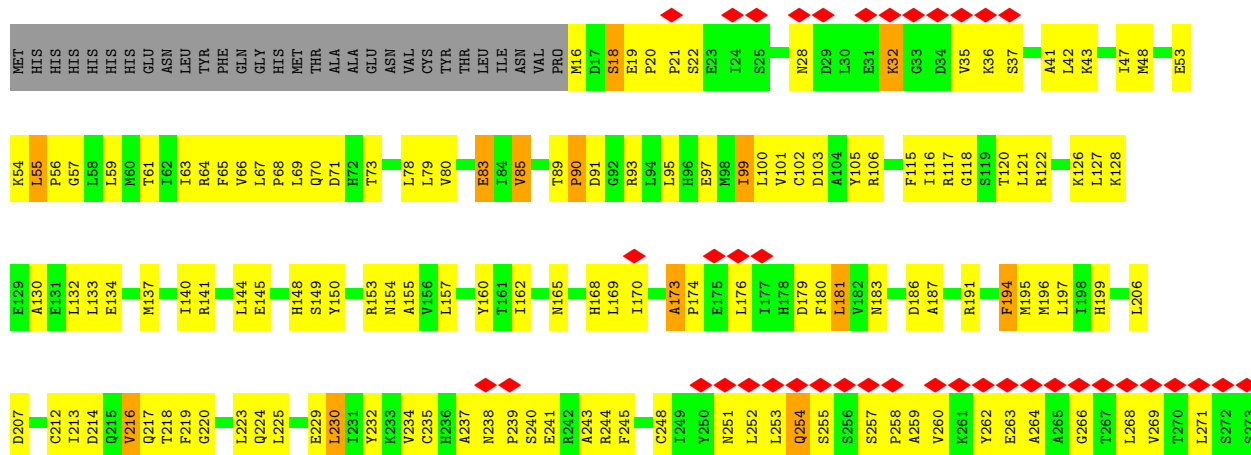


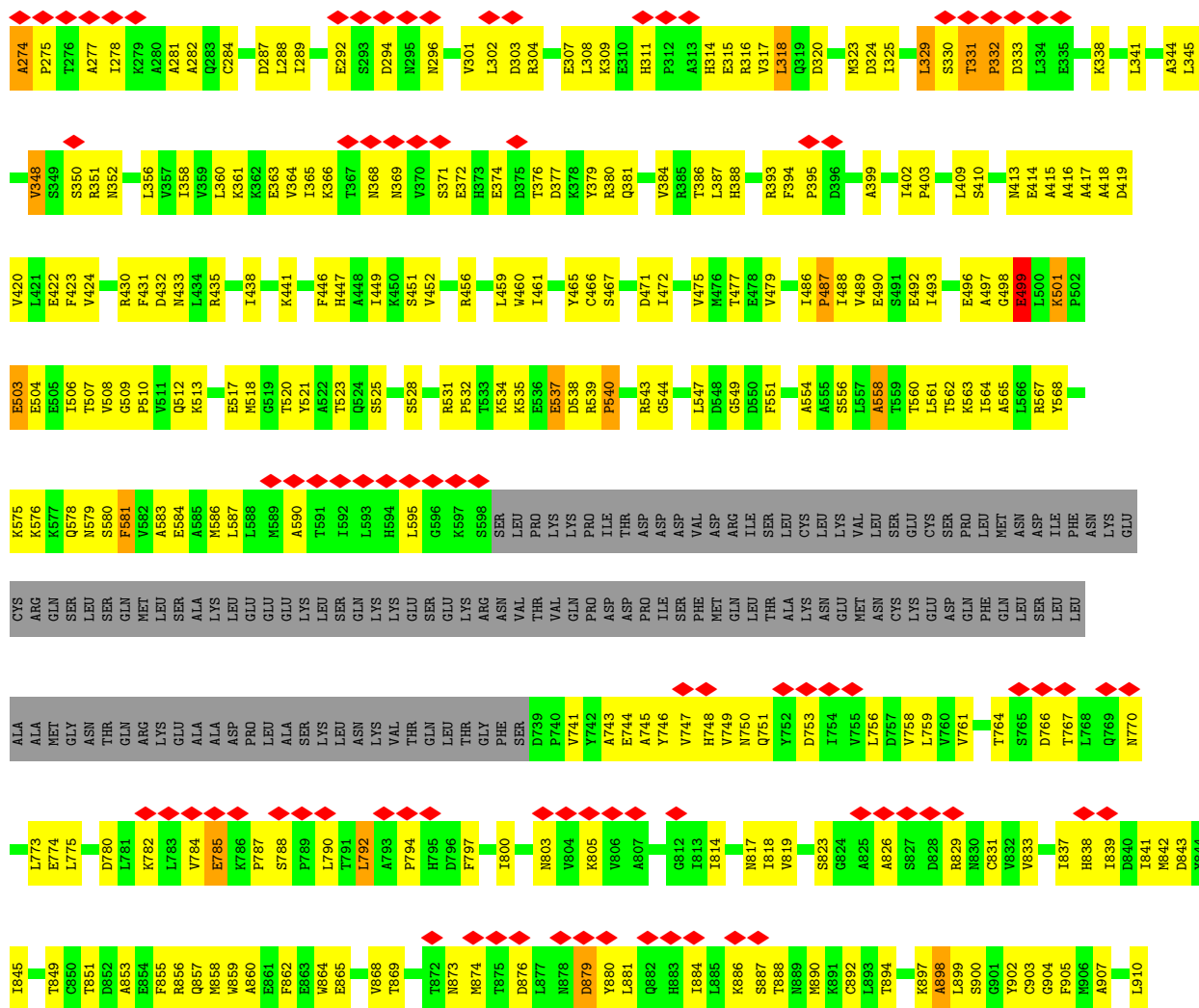
• Molecule 5: COATOMER SUBUNIT ZETA-1



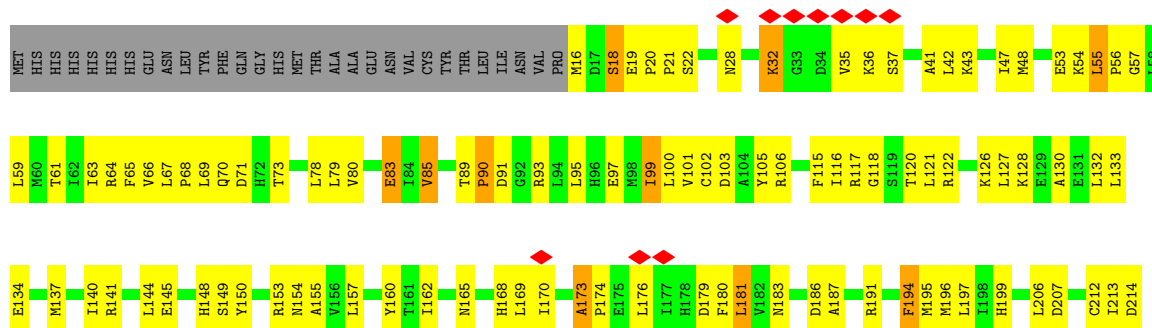
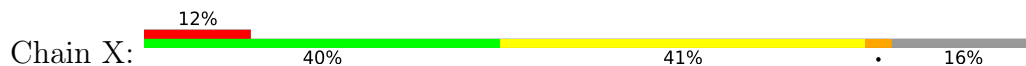


● Molecule 6: COATOMER SUBUNIT BETA'





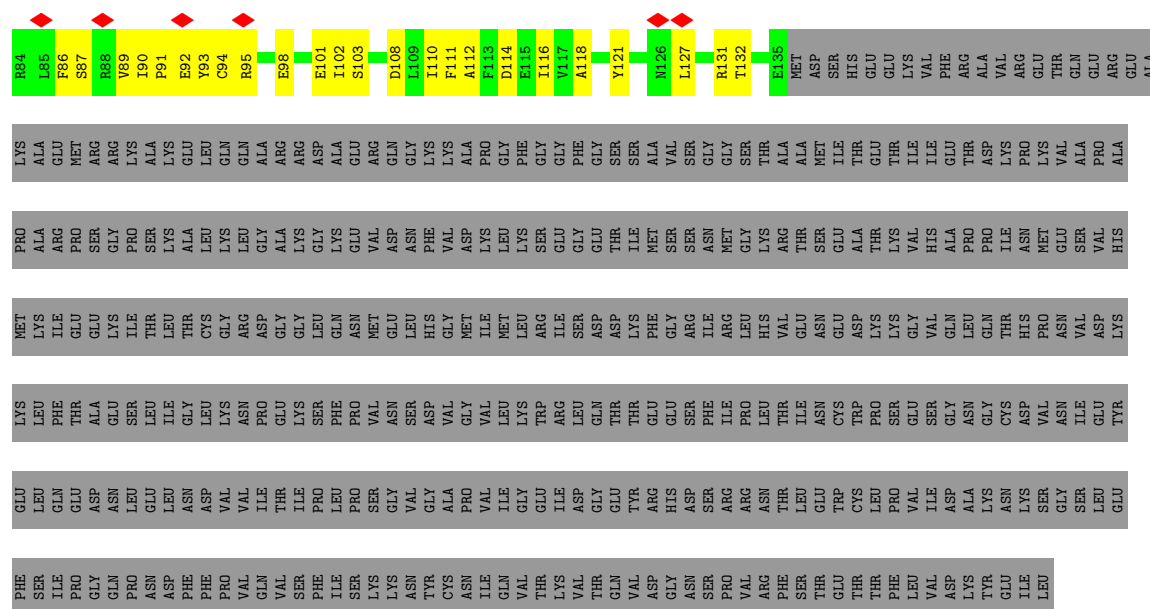
• Molecule 6: COATOMER SUBUNIT BETA'



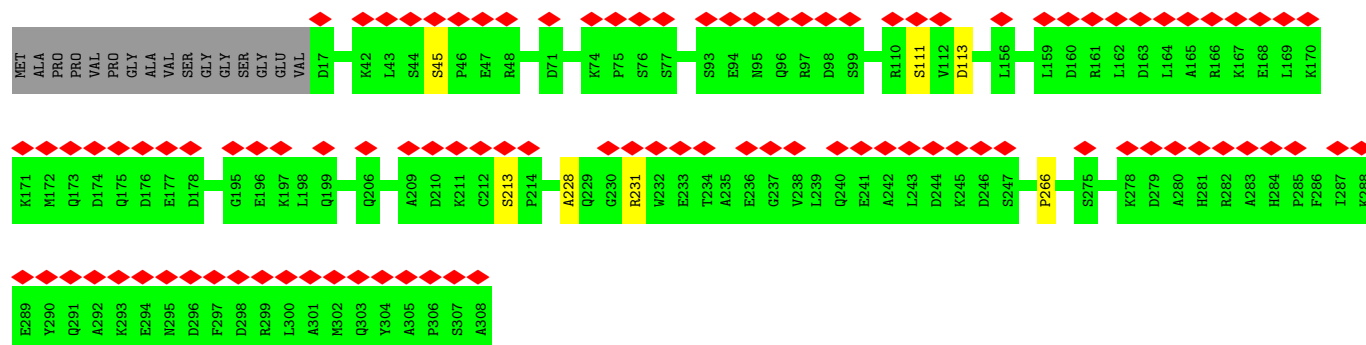
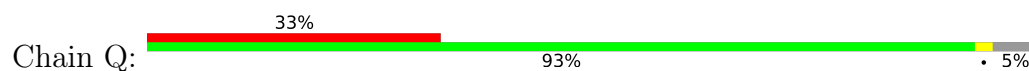


ASP	I69	M1
SER	T70	V2
HIS	T71	L3
GLU	K72	A6
GLY	N73	T10
LYS	S74	K11
VAL	N75	A12
PHE	I76	G13
ARG	I77	K14
ALA	L78	A15
VAL	D79	S18
ARG	E80	R19
GLU	L80	Q20
THR	E81	F21
GLN	T82	V22
GLY	L83	E23
ALA	L84	M24
LYS	L85	T27
ALA	F86	R28
ALA	S87	I29
LYS	R88	E30
LYS	V89	G31
LYS	P91	A34
GLU	E92	A35
LEU	N93	K38
GLN	C94	L39
GLN	R95	M40
ALA	E98	N41
ARG	E99	T42
ASP	N100	G43
ASP	E101	K44
ALA	E102	Q45
GLU	S103	R46
GLN	D108	T47
LYS	L109	F48
LYS	I110	V49
ALA	F111	E50
PRO	G112	T51
GLY	PHE	E52
GLY	D114	S53
GLY	E115	V54
GLY	I116	R55
SER	L117	V56
SER	A118	V57
ALA	Y121	Y58
VAL	N124	M61
SER	V125	E62
GLY	N126	K63
GLY	L127	L64
THR	A128	V65
	R131	M66
	T132	V67
	E135	L68

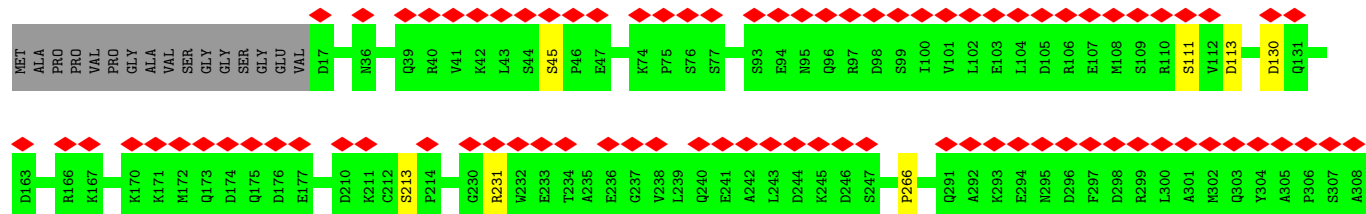
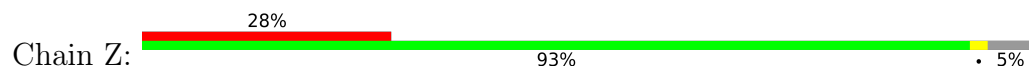




• Molecule 8: COATOMER SUBUNIT EPSILON



● Molecule 8: COATOMER SUBUNIT EPSILON



4 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of tilted images used	3684	Depositor
Resolution determination method	Not provided	
CTF correction method	PHASE FLIPPING OF INDIVIDUAL TILTS	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	42000	Depositor
Image detector	GATAN MULTISCAN	Depositor
Maximum voxel value	7.329	Depositor
Minimum voxel value	-6.473	Depositor
Average voxel value	0.032	Depositor
Voxel value standard deviation	0.925	Depositor
Recommended contour level	1.7	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	0.68	0/635	1.31	3/792 (0.4%)
1	R	0.69	0/635	1.31	3/792 (0.4%)
1	S	0.68	0/635	1.31	3/792 (0.4%)
2	C	2.64	201/3250 (6.2%)	2.89	326/4061 (8.0%)
2	K	2.39	202/4501 (4.5%)	2.58	342/5623 (6.1%)
2	T	2.39	200/4501 (4.4%)	2.58	339/5623 (6.0%)
3	D	2.71	222/3210 (6.9%)	2.90	342/4011 (8.5%)
3	L	2.71	222/3210 (6.9%)	2.89	340/4011 (8.5%)
3	U	2.71	223/3210 (6.9%)	2.89	345/4011 (8.6%)
4	E	2.63	195/3292 (5.9%)	3.04	397/4112 (9.7%)
4	M	2.63	195/3292 (5.9%)	3.04	396/4112 (9.6%)
4	V	2.63	197/3292 (6.0%)	3.04	399/4112 (9.7%)
5	F	2.72	41/554 (7.4%)	2.99	72/691 (10.4%)
5	N	2.72	43/554 (7.8%)	2.99	73/691 (10.6%)
5	W	2.73	41/554 (7.4%)	2.99	72/691 (10.4%)
6	G	2.57	176/3248 (5.4%)	3.09	420/4057 (10.4%)
6	O	2.57	177/3248 (5.4%)	3.09	420/4057 (10.4%)
6	X	2.57	178/3248 (5.5%)	3.09	422/4057 (10.4%)
7	H	2.54	25/538 (4.6%)	3.12	64/671 (9.5%)
7	P	2.54	23/538 (4.3%)	3.12	65/671 (9.7%)
7	Y	2.54	23/538 (4.3%)	3.12	65/671 (9.7%)
8	Q	1.59	0/1168	1.38	2/1457 (0.1%)
8	Z	1.59	0/1168	1.37	2/1457 (0.1%)
All	All	2.46	2584/50924 (5.1%)	2.78	4921/63599 (7.7%)

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
2	T	0	4
3	D	0	2
3	L	0	2
3	U	0	2
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
6	X	0	14
All	All	0	75

All (2584) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	330	MET	N-CA	-10.82	1.32	1.46
3	D	330	MET	N-CA	-10.79	1.32	1.46
3	U	330	MET	N-CA	-10.75	1.32	1.46
2	C	98	THR	CA-C	10.53	1.65	1.52
2	K	98	THR	CA-C	10.52	1.65	1.52
2	T	98	THR	CA-C	10.49	1.65	1.52
3	U	537	THR	N-CA	-10.03	1.33	1.45
3	D	537	THR	N-CA	-10.02	1.33	1.45
3	L	537	THR	N-CA	-9.99	1.33	1.45
4	M	198	GLY	CA-C	-9.79	1.41	1.52
4	E	198	GLY	CA-C	-9.78	1.41	1.52
3	D	378	TYR	N-CA	-9.75	1.33	1.45
3	L	378	TYR	N-CA	-9.75	1.33	1.45
4	V	198	GLY	CA-C	-9.75	1.41	1.52
4	E	536	GLU	CA-C	-9.72	1.40	1.52
4	V	536	GLU	CA-C	-9.69	1.40	1.52
4	M	536	GLU	CA-C	-9.68	1.40	1.52
6	X	538	ASP	CA-C	-9.67	1.48	1.53
3	U	378	TYR	N-CA	-9.65	1.33	1.45
5	F	116	GLU	CA-C	-9.60	1.40	1.52
5	W	116	GLU	CA-C	-9.58	1.40	1.52
6	G	538	ASP	CA-C	-9.58	1.48	1.53
6	O	538	ASP	CA-C	-9.58	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	N	116	GLU	CA-C	-9.55	1.40	1.52
6	G	539	ARG	C-N	9.54	1.44	1.33
6	X	539	ARG	C-N	9.51	1.44	1.33
6	O	539	ARG	C-N	9.47	1.44	1.33
4	E	645	GLU	CA-C	-9.41	1.44	1.52
2	K	130	VAL	C-N	9.41	1.46	1.33
4	M	645	GLU	CA-C	-9.40	1.44	1.52
2	C	130	VAL	C-N	9.39	1.46	1.33
2	T	130	VAL	C-N	9.35	1.45	1.33
2	K	204	HIS	N-CA	-9.33	1.34	1.46
4	V	645	GLU	CA-C	-9.33	1.45	1.52
2	C	204	HIS	N-CA	-9.31	1.34	1.46
2	T	204	HIS	N-CA	-9.27	1.34	1.46
2	C	27	SER	CA-C	-9.26	1.41	1.52
2	K	27	SER	CA-C	-9.25	1.41	1.52
2	T	27	SER	CA-C	-9.25	1.41	1.52
6	G	892	CYS	C-N	9.22	1.43	1.33
6	O	892	CYS	C-N	9.18	1.43	1.33
6	X	892	CYS	C-N	9.18	1.43	1.33
5	N	29	LYS	CA-C	-9.15	1.41	1.52
5	F	29	LYS	CA-C	-9.13	1.41	1.52
5	W	29	LYS	CA-C	-9.12	1.41	1.52
6	X	118	GLY	CA-C	-9.09	1.41	1.52
2	C	631	LYS	N-CA	-9.07	1.34	1.46
6	O	118	GLY	CA-C	-9.05	1.41	1.52
4	M	813	CYS	CA-C	-9.04	1.41	1.52
6	O	351	ARG	CA-C	-9.04	1.40	1.52
2	K	631	LYS	N-CA	-9.04	1.34	1.46
4	E	662	GLN	CA-C	-9.02	1.41	1.52
2	T	631	LYS	N-CA	-9.01	1.34	1.46
4	M	662	GLN	CA-C	-9.00	1.41	1.52
4	V	662	GLN	CA-C	-9.00	1.41	1.52
4	V	813	CYS	CA-C	-9.00	1.41	1.52
6	G	351	ARG	CA-C	-8.99	1.40	1.52
6	X	351	ARG	CA-C	-8.99	1.40	1.52
4	E	813	CYS	CA-C	-8.98	1.41	1.52
2	K	509	HIS	CA-C	-8.96	1.42	1.52
6	G	118	GLY	CA-C	-8.96	1.41	1.52
2	T	509	HIS	CA-C	-8.95	1.42	1.52
2	C	509	HIS	CA-C	-8.92	1.42	1.52
6	G	761	VAL	CA-C	-8.88	1.41	1.52
6	O	761	VAL	CA-C	-8.87	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	879	ASP	CA-C	8.86	1.64	1.52
6	O	879	ASP	CA-C	8.86	1.64	1.52
6	X	761	VAL	CA-C	-8.84	1.41	1.52
4	V	613	PHE	N-CA	-8.79	1.35	1.46
4	E	613	PHE	N-CA	-8.78	1.35	1.46
6	X	879	ASP	CA-C	8.78	1.64	1.52
3	U	716	ALA	CA-C	-8.76	1.41	1.52
4	M	613	PHE	N-CA	-8.76	1.35	1.46
6	G	348	VAL	CA-C	-8.75	1.41	1.52
3	L	716	ALA	CA-C	-8.74	1.41	1.52
6	O	348	VAL	CA-C	-8.71	1.41	1.52
6	X	348	VAL	CA-C	-8.71	1.41	1.52
3	D	716	ALA	CA-C	-8.71	1.41	1.52
6	O	447	HIS	CA-C	-8.69	1.41	1.52
6	G	447	HIS	CA-C	-8.68	1.41	1.52
6	G	304	ARG	CA-C	-8.67	1.42	1.52
6	X	447	HIS	CA-C	-8.67	1.41	1.52
3	D	543	LEU	CA-C	-8.66	1.42	1.52
6	O	304	ARG	CA-C	-8.66	1.42	1.52
6	G	19	GLU	N-CA	-8.65	1.38	1.46
3	U	543	LEU	CA-C	-8.65	1.42	1.52
6	X	19	GLU	N-CA	-8.65	1.38	1.46
3	L	543	LEU	CA-C	-8.64	1.42	1.52
6	X	304	ARG	CA-C	-8.63	1.42	1.52
3	L	289	GLY	CA-C	-8.63	1.46	1.52
3	L	799	PRO	C-N	8.62	1.44	1.33
2	C	137	TYR	C-N	8.61	1.42	1.33
2	K	224	ALA	CA-C	-8.59	1.42	1.52
2	T	224	ALA	CA-C	-8.59	1.42	1.52
3	U	799	PRO	C-N	8.59	1.44	1.33
6	O	19	GLU	N-CA	-8.58	1.38	1.46
2	T	137	TYR	C-N	8.58	1.42	1.33
6	X	857	GLN	N-CA	-8.56	1.36	1.46
2	C	224	ALA	CA-C	-8.56	1.42	1.52
6	G	857	GLN	N-CA	-8.54	1.36	1.46
6	O	857	GLN	N-CA	-8.54	1.36	1.46
3	D	799	PRO	C-N	8.54	1.44	1.33
2	K	455	GLU	CA-C	-8.54	1.41	1.53
3	U	695	ASP	C-N	8.54	1.45	1.33
2	K	137	TYR	C-N	8.53	1.42	1.33
3	L	695	ASP	C-N	8.52	1.45	1.33
2	T	455	GLU	CA-C	-8.52	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	289	GLY	CA-C	-8.51	1.46	1.52
3	U	289	GLY	CA-C	-8.51	1.46	1.52
4	M	233	ILE	CA-C	-8.51	1.42	1.52
3	D	695	ASP	C-N	8.50	1.45	1.33
2	C	455	GLU	CA-C	-8.50	1.41	1.53
3	D	464	GLN	N-CA	-8.49	1.34	1.45
6	X	160	TYR	N-CA	-8.49	1.35	1.46
3	U	464	GLN	N-CA	-8.49	1.34	1.45
3	L	464	GLN	N-CA	-8.48	1.34	1.45
4	V	233	ILE	CA-C	-8.48	1.42	1.52
7	Y	31	GLY	C-N	8.47	1.44	1.33
4	E	233	ILE	CA-C	-8.47	1.42	1.52
6	O	160	TYR	N-CA	-8.47	1.35	1.46
4	M	303	LEU	CA-C	-8.46	1.41	1.52
6	G	160	TYR	N-CA	-8.46	1.35	1.46
6	O	565	ALA	N-CA	-8.46	1.36	1.46
6	X	565	ALA	N-CA	-8.45	1.36	1.46
4	V	303	LEU	CA-C	-8.44	1.41	1.52
7	H	31	GLY	C-N	8.43	1.44	1.33
6	G	565	ALA	N-CA	-8.43	1.36	1.46
3	L	466	LYS	N-CA	-8.42	1.35	1.46
7	P	31	GLY	C-N	8.40	1.44	1.33
4	E	303	LEU	CA-C	-8.39	1.41	1.52
3	L	111	GLN	N-CA	-8.38	1.40	1.46
2	T	223	GLY	CA-C	-8.38	1.44	1.52
3	D	466	LYS	N-CA	-8.38	1.35	1.46
3	U	466	LYS	N-CA	-8.38	1.35	1.46
2	K	223	GLY	CA-C	-8.36	1.44	1.52
2	C	223	GLY	CA-C	-8.34	1.44	1.52
3	D	111	GLN	N-CA	-8.33	1.40	1.46
3	U	111	GLN	N-CA	-8.32	1.40	1.46
3	L	645	PHE	N-CA	-8.31	1.36	1.46
3	L	298	LYS	CA-C	-8.29	1.42	1.52
3	U	645	PHE	N-CA	-8.29	1.36	1.46
3	U	598	VAL	CA-C	-8.28	1.42	1.52
3	D	645	PHE	N-CA	-8.27	1.36	1.46
3	D	598	VAL	CA-C	-8.27	1.42	1.52
3	D	298	LYS	CA-C	-8.25	1.42	1.52
3	D	74	THR	C-O	-8.24	1.13	1.23
3	U	298	LYS	CA-C	-8.23	1.42	1.52
3	L	598	VAL	CA-C	-8.23	1.42	1.52
2	C	621	VAL	C-N	8.23	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	N	25	ARG	CA-C	-8.22	1.42	1.52
2	T	621	VAL	C-N	8.22	1.45	1.33
2	K	621	VAL	C-N	8.21	1.45	1.33
5	F	25	ARG	CA-C	-8.20	1.42	1.52
5	W	25	ARG	CA-C	-8.20	1.42	1.52
6	O	374	GLU	C-N	8.20	1.44	1.33
3	U	74	THR	C-O	-8.19	1.13	1.23
6	G	374	GLU	C-N	8.19	1.44	1.33
3	L	74	THR	C-O	-8.18	1.13	1.23
6	X	374	GLU	C-N	8.16	1.44	1.33
6	G	148	HIS	CA-C	-8.16	1.42	1.52
3	L	555	ALA	CA-C	-8.16	1.42	1.52
6	X	329	LEU	CA-C	-8.16	1.42	1.52
6	G	329	LEU	CA-C	-8.14	1.42	1.52
4	M	455	ILE	C-N	8.14	1.44	1.33
6	X	148	HIS	CA-C	-8.13	1.42	1.52
5	F	68	VAL	CA-C	-8.13	1.42	1.52
4	V	83	THR	CA-C	-8.13	1.42	1.52
5	W	68	VAL	CA-C	-8.12	1.42	1.52
4	E	83	THR	CA-C	-8.12	1.42	1.52
4	M	828	LEU	CA-C	-8.12	1.43	1.52
6	O	329	LEU	CA-C	-8.12	1.42	1.52
4	E	828	LEU	CA-C	-8.11	1.43	1.52
2	K	550	LYS	CA-C	-8.11	1.42	1.52
4	V	828	LEU	CA-C	-8.11	1.43	1.52
3	U	555	ALA	CA-C	-8.11	1.43	1.52
6	O	148	HIS	CA-C	-8.10	1.43	1.52
4	V	455	ILE	C-N	8.10	1.44	1.33
2	C	550	LYS	CA-C	-8.10	1.42	1.52
4	M	83	THR	CA-C	-8.10	1.42	1.52
2	T	550	LYS	CA-C	-8.10	1.42	1.52
3	D	555	ALA	CA-C	-8.09	1.43	1.52
2	C	297	LEU	CA-C	-8.08	1.42	1.52
5	N	68	VAL	CA-C	-8.08	1.42	1.52
4	E	455	ILE	C-N	8.08	1.44	1.33
2	T	341	LEU	CA-C	8.08	1.60	1.53
2	C	154	SER	CA-C	-8.07	1.42	1.52
2	K	297	LEU	CA-C	-8.06	1.42	1.52
6	G	145	GLU	C-N	8.06	1.44	1.33
6	X	145	GLU	C-N	8.06	1.44	1.33
2	T	154	SER	CA-C	-8.05	1.42	1.52
2	C	252	VAL	CA-C	-8.04	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	154	SER	CA-C	-8.04	1.42	1.52
2	T	252	VAL	CA-C	-8.03	1.43	1.52
2	C	341	LEU	CA-C	8.02	1.60	1.53
2	K	341	LEU	CA-C	8.00	1.60	1.53
2	T	297	LEU	CA-C	-7.99	1.42	1.52
2	K	252	VAL	CA-C	-7.98	1.43	1.52
2	K	652	ALA	C-N	7.97	1.45	1.34
6	O	145	GLU	C-N	7.96	1.44	1.33
2	K	353	ALA	N-CA	-7.95	1.36	1.45
2	T	353	ALA	N-CA	-7.94	1.36	1.45
2	C	353	ALA	N-CA	-7.92	1.36	1.45
3	L	159	ALA	CA-C	-7.92	1.43	1.52
3	D	159	ALA	CA-C	-7.90	1.43	1.52
2	T	584	GLU	C-N	7.90	1.44	1.33
6	X	773	LEU	CA-C	-7.90	1.43	1.52
4	M	123	PRO	N-CA	-7.90	1.37	1.47
6	O	773	LEU	CA-C	-7.89	1.43	1.52
2	C	652	ALA	C-N	7.89	1.44	1.34
2	T	77	VAL	CA-C	-7.89	1.43	1.52
4	V	123	PRO	N-CA	-7.88	1.37	1.47
2	C	77	VAL	CA-C	-7.88	1.43	1.52
2	K	584	GLU	C-N	7.88	1.44	1.33
3	U	159	ALA	CA-C	-7.87	1.43	1.52
2	K	77	VAL	CA-C	-7.87	1.43	1.52
6	G	773	LEU	CA-C	-7.87	1.43	1.52
3	U	562	TYR	CA-C	-7.87	1.43	1.52
2	T	652	ALA	C-N	7.86	1.44	1.34
4	E	123	PRO	N-CA	-7.85	1.37	1.47
2	C	584	GLU	C-N	7.85	1.44	1.33
6	G	329	LEU	C-N	7.84	1.44	1.33
4	M	693	VAL	N-CA	-7.84	1.39	1.46
4	V	696	ARG	N-CA	-7.84	1.37	1.46
3	L	562	TYR	CA-C	-7.84	1.43	1.52
6	X	329	LEU	C-N	7.83	1.44	1.33
3	L	191	ILE	CA-C	-7.83	1.42	1.52
4	M	696	ARG	N-CA	-7.83	1.37	1.46
2	T	631	LYS	C-N	7.82	1.44	1.33
3	D	562	TYR	CA-C	-7.82	1.43	1.52
2	K	85	CYS	CA-C	-7.81	1.43	1.52
2	K	631	LYS	C-N	7.80	1.44	1.33
3	D	191	ILE	CA-C	-7.79	1.42	1.52
6	O	329	LEU	C-N	7.79	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	693	VAL	N-CA	-7.79	1.39	1.46
4	E	696	ARG	N-CA	-7.78	1.37	1.46
2	C	85	CYS	CA-C	-7.78	1.43	1.52
3	L	276	CYS	CA-C	-7.77	1.42	1.52
7	P	132	THR	CA-C	7.77	1.62	1.52
2	T	85	CYS	CA-C	-7.77	1.43	1.52
2	C	631	LYS	C-N	7.77	1.44	1.33
3	U	191	ILE	CA-C	-7.77	1.42	1.52
2	C	525	HIS	N-CA	-7.75	1.36	1.46
2	T	525	HIS	N-CA	-7.75	1.36	1.46
6	X	472	ILE	N-CA	-7.75	1.37	1.46
3	L	451	ASP	CA-C	-7.74	1.42	1.52
3	L	550	GLU	CA-C	-7.73	1.43	1.52
3	U	550	GLU	CA-C	-7.73	1.43	1.52
7	H	132	THR	CA-C	7.73	1.62	1.52
3	D	276	CYS	CA-C	-7.72	1.42	1.52
3	U	621	VAL	N-CA	-7.72	1.37	1.46
7	Y	132	THR	CA-C	7.72	1.62	1.52
3	D	550	GLU	CA-C	-7.71	1.43	1.52
6	O	472	ILE	N-CA	-7.71	1.37	1.46
2	K	525	HIS	N-CA	-7.71	1.36	1.46
5	N	19	LEU	CA-C	-7.71	1.43	1.52
4	E	693	VAL	N-CA	-7.71	1.39	1.46
3	D	621	VAL	N-CA	-7.70	1.37	1.46
3	U	451	ASP	CA-C	-7.70	1.42	1.52
3	U	276	CYS	CA-C	-7.70	1.42	1.52
4	E	765	GLN	CA-C	-7.70	1.43	1.52
5	F	19	LEU	CA-C	-7.69	1.43	1.52
3	L	621	VAL	N-CA	-7.68	1.37	1.46
5	W	19	LEU	CA-C	-7.67	1.43	1.52
2	T	127	CYS	CA-C	-7.67	1.43	1.52
2	K	127	CYS	CA-C	-7.66	1.43	1.52
4	M	765	GLN	CA-C	-7.66	1.43	1.52
3	D	451	ASP	CA-C	-7.65	1.42	1.52
2	C	127	CYS	CA-C	-7.64	1.43	1.52
6	G	472	ILE	N-CA	-7.64	1.37	1.46
3	U	122	LEU	CA-C	-7.63	1.43	1.52
4	V	765	GLN	CA-C	-7.63	1.43	1.52
6	X	920	ALA	CA-C	-7.63	1.43	1.52
6	X	580	SER	CA-C	-7.63	1.43	1.52
2	T	560	ILE	CA-C	-7.62	1.43	1.52
3	U	586	SER	N-CA	-7.62	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	846	LEU	CA-C	-7.62	1.43	1.52
6	G	580	SER	CA-C	-7.61	1.43	1.52
4	V	741	GLU	CA-C	-7.61	1.42	1.52
3	L	586	SER	N-CA	-7.61	1.36	1.46
4	M	846	LEU	CA-C	-7.61	1.43	1.52
3	L	468	ILE	CA-C	-7.61	1.43	1.52
2	K	560	ILE	CA-C	-7.59	1.43	1.52
4	E	542	LEU	N-CA	-7.58	1.37	1.46
6	G	920	ALA	CA-C	-7.58	1.43	1.52
3	U	414	ILE	CA-C	-7.58	1.43	1.52
3	D	122	LEU	CA-C	-7.58	1.43	1.52
2	T	220	ILE	CA-C	-7.58	1.43	1.52
2	C	560	ILE	CA-C	-7.57	1.43	1.52
4	E	741	GLU	CA-C	-7.57	1.42	1.52
4	E	846	LEU	CA-C	-7.57	1.43	1.52
3	L	33	SER	N-CA	-7.57	1.36	1.46
6	O	920	ALA	CA-C	-7.57	1.43	1.52
3	U	468	ILE	CA-C	-7.57	1.43	1.52
4	M	99	ALA	N-CA	-7.56	1.36	1.46
2	K	220	ILE	CA-C	-7.56	1.43	1.52
2	C	220	ILE	CA-C	-7.55	1.43	1.52
3	D	414	ILE	CA-C	-7.55	1.43	1.52
3	L	122	LEU	CA-C	-7.55	1.43	1.52
3	D	468	ILE	CA-C	-7.55	1.43	1.52
4	M	542	LEU	N-CA	-7.55	1.37	1.46
4	V	542	LEU	N-CA	-7.55	1.37	1.46
5	F	117	ASN	CA-C	-7.55	1.44	1.53
4	V	99	ALA	N-CA	-7.54	1.36	1.46
5	F	12	THR	C-N	7.54	1.43	1.33
5	W	117	ASN	CA-C	-7.54	1.44	1.53
4	E	99	ALA	N-CA	-7.54	1.36	1.46
3	U	33	SER	N-CA	-7.54	1.36	1.46
4	V	728	MET	CA-C	-7.54	1.43	1.52
4	M	741	GLU	CA-C	-7.53	1.42	1.52
6	O	580	SER	CA-C	-7.53	1.43	1.52
5	N	117	ASN	CA-C	-7.53	1.44	1.53
3	D	33	SER	N-CA	-7.52	1.36	1.46
6	G	433	ASN	CA-C	-7.52	1.42	1.53
6	O	433	ASN	CA-C	-7.51	1.42	1.53
3	D	586	SER	N-CA	-7.51	1.36	1.46
4	M	728	MET	CA-C	-7.51	1.43	1.52
2	T	505	LEU	CA-C	-7.51	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	X	433	ASN	CA-C	-7.51	1.43	1.53
4	E	124	ALA	CA-C	-7.50	1.43	1.52
3	L	414	ILE	CA-C	-7.50	1.43	1.52
4	V	124	ALA	CA-C	-7.49	1.43	1.52
3	D	310	ALA	N-CA	-7.49	1.36	1.46
4	E	728	MET	CA-C	-7.49	1.43	1.52
3	U	296	ILE	CA-C	-7.48	1.43	1.52
5	W	12	THR	C-N	7.48	1.43	1.33
5	N	12	THR	C-N	7.47	1.43	1.33
7	H	61	MET	CA-C	-7.46	1.44	1.52
4	M	124	ALA	CA-C	-7.46	1.43	1.52
2	C	505	LEU	CA-C	-7.45	1.43	1.52
3	D	16	ASP	C-N	7.45	1.44	1.33
4	M	530	PHE	N-CA	-7.45	1.37	1.46
3	U	567	ILE	CA-C	-7.45	1.47	1.53
3	D	50	VAL	C-N	7.43	1.42	1.33
2	K	505	LEU	CA-C	-7.43	1.43	1.52
4	E	602	PRO	CA-C	-7.43	1.44	1.52
2	T	471	SER	C-N	7.43	1.42	1.33
2	K	172	LEU	CA-C	-7.42	1.43	1.52
3	L	296	ILE	CA-C	-7.42	1.43	1.52
3	L	295	ILE	N-CA	-7.42	1.37	1.46
7	P	61	MET	CA-C	-7.42	1.44	1.52
4	E	530	PHE	N-CA	-7.41	1.37	1.46
4	V	530	PHE	N-CA	-7.41	1.37	1.46
4	V	208	ARG	CA-C	-7.41	1.43	1.52
3	D	366	PHE	CA-C	-7.41	1.43	1.52
2	C	471	SER	C-N	7.41	1.42	1.33
3	L	310	ALA	N-CA	-7.41	1.36	1.46
4	E	208	ARG	CA-C	-7.41	1.43	1.52
3	L	16	ASP	C-N	7.41	1.44	1.33
3	U	310	ALA	N-CA	-7.41	1.36	1.46
3	U	295	ILE	N-CA	-7.40	1.37	1.46
3	U	16	ASP	C-N	7.39	1.44	1.33
4	V	602	PRO	CA-C	-7.39	1.44	1.52
7	Y	93	TYR	C-N	7.39	1.44	1.33
3	D	296	ILE	CA-C	-7.38	1.43	1.52
2	T	172	LEU	CA-C	-7.38	1.43	1.52
3	L	50	VAL	C-N	7.38	1.42	1.33
3	U	228	HIS	CA-C	-7.38	1.43	1.52
7	H	93	TYR	C-N	7.38	1.44	1.33
3	D	126	TRP	CA-C	-7.37	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	567	ILE	CA-C	-7.37	1.47	1.53
4	E	53	TYR	C-O	-7.37	1.15	1.24
2	T	792	ALA	CA-C	-7.37	1.43	1.52
2	C	172	LEU	CA-C	-7.36	1.43	1.52
2	K	471	SER	C-N	7.36	1.42	1.33
3	D	228	HIS	CA-C	-7.36	1.43	1.52
3	L	767	SER	N-CA	-7.36	1.37	1.46
2	C	792	ALA	CA-C	-7.35	1.43	1.52
4	M	602	PRO	CA-C	-7.35	1.44	1.52
7	P	93	TYR	C-N	7.34	1.44	1.33
7	Y	61	MET	CA-C	-7.34	1.44	1.52
3	L	772	LEU	C-N	7.34	1.44	1.33
3	U	767	SER	N-CA	-7.34	1.37	1.46
3	U	50	VAL	C-N	7.33	1.42	1.33
3	U	772	LEU	C-N	7.33	1.44	1.33
3	L	126	TRP	CA-C	-7.33	1.43	1.52
5	F	129	VAL	CA-C	-7.33	1.44	1.52
2	K	792	ALA	CA-C	-7.33	1.43	1.52
3	D	772	LEU	C-N	7.32	1.43	1.33
2	C	661	ALA	CA-C	-7.32	1.43	1.52
3	L	366	PHE	CA-C	-7.32	1.43	1.52
3	L	228	HIS	CA-C	-7.32	1.43	1.52
2	K	661	ALA	CA-C	-7.32	1.43	1.52
3	L	567	ILE	CA-C	-7.31	1.47	1.53
3	D	767	SER	N-CA	-7.31	1.37	1.46
3	D	295	ILE	N-CA	-7.31	1.37	1.46
3	U	126	TRP	CA-C	-7.31	1.43	1.52
4	M	208	ARG	CA-C	-7.30	1.43	1.52
3	U	595	GLN	C-N	7.30	1.43	1.33
3	L	186	LYS	C-N	7.30	1.43	1.32
3	D	595	GLN	C-N	7.30	1.43	1.33
2	T	661	ALA	CA-C	-7.29	1.43	1.52
3	U	366	PHE	CA-C	-7.29	1.43	1.52
4	M	53	TYR	C-O	-7.29	1.15	1.24
3	L	595	GLN	C-N	7.29	1.43	1.33
3	U	186	LYS	C-N	7.29	1.43	1.32
4	E	638	ALA	N-CA	-7.28	1.37	1.46
3	L	508	ASP	CA-C	-7.28	1.43	1.52
4	V	53	TYR	C-O	-7.27	1.15	1.24
4	M	638	ALA	N-CA	-7.27	1.37	1.46
3	U	508	ASP	CA-C	-7.27	1.43	1.52
5	N	129	VAL	CA-C	-7.25	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	W	129	VAL	CA-C	-7.25	1.44	1.52
3	D	186	LYS	C-N	7.25	1.43	1.32
3	D	508	ASP	CA-C	-7.24	1.43	1.52
6	X	898	ALA	C-N	7.24	1.43	1.33
3	L	3	LEU	C-N	7.24	1.43	1.33
3	D	184	HIS	CA-C	-7.24	1.44	1.52
4	V	638	ALA	N-CA	-7.24	1.37	1.46
6	X	510	PRO	C-N	7.23	1.43	1.33
4	V	370	GLU	N-CA	-7.22	1.37	1.46
2	C	517	LYS	CA-C	7.22	1.62	1.52
3	U	3	LEU	C-N	7.22	1.43	1.33
3	D	575	LEU	CA-C	-7.21	1.44	1.52
3	L	575	LEU	CA-C	-7.21	1.44	1.52
4	V	263	HIS	N-CA	-7.21	1.36	1.46
4	E	370	GLU	N-CA	-7.21	1.37	1.46
3	U	575	LEU	CA-C	-7.19	1.44	1.52
6	O	792	LEU	N-CA	-7.19	1.36	1.46
2	T	782	LYS	CA-C	-7.18	1.43	1.52
3	U	184	HIS	CA-C	-7.18	1.44	1.52
6	G	510	PRO	C-N	7.18	1.43	1.33
2	K	517	LYS	CA-C	7.18	1.62	1.52
3	L	208	ASP	C-N	7.18	1.43	1.33
6	X	289	ILE	CA-C	-7.18	1.43	1.52
3	L	184	HIS	CA-C	-7.18	1.44	1.52
4	M	412	GLU	C-N	7.18	1.43	1.33
2	K	782	LYS	CA-C	-7.18	1.43	1.52
6	O	745	ALA	N-CA	-7.17	1.37	1.46
2	C	782	LYS	CA-C	-7.17	1.43	1.52
6	G	467	SER	C-N	7.17	1.43	1.33
4	V	252	PHE	N-CA	-7.17	1.38	1.46
4	V	412	GLU	C-N	7.17	1.43	1.33
3	D	3	LEU	C-N	7.17	1.43	1.33
4	E	252	PHE	N-CA	-7.17	1.38	1.46
4	E	263	HIS	N-CA	-7.17	1.36	1.46
6	X	467	SER	C-N	7.17	1.43	1.33
6	G	289	ILE	CA-C	-7.16	1.43	1.52
4	M	263	HIS	N-CA	-7.16	1.36	1.46
6	G	792	LEU	N-CA	-7.16	1.36	1.46
5	N	28	ALA	N-CA	-7.16	1.37	1.46
2	T	517	LYS	CA-C	7.16	1.62	1.52
4	E	412	GLU	C-N	7.15	1.43	1.33
6	O	467	SER	C-N	7.15	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	667	GLU	N-CA	7.15	1.55	1.46
4	M	370	GLU	N-CA	-7.15	1.37	1.46
4	M	561	ALA	CA-C	7.14	1.62	1.52
6	O	510	PRO	C-N	7.14	1.43	1.33
6	G	898	ALA	C-N	7.14	1.43	1.33
4	V	561	ALA	CA-C	7.14	1.62	1.52
3	D	208	ASP	C-N	7.13	1.43	1.33
3	U	208	ASP	C-N	7.13	1.43	1.33
2	K	763	ALA	CA-C	-7.13	1.43	1.52
4	E	561	ALA	CA-C	7.13	1.62	1.52
3	U	723	GLY	CA-C	-7.13	1.41	1.51
6	X	394	PHE	CA-C	-7.12	1.45	1.52
6	O	289	ILE	CA-C	-7.12	1.43	1.52
2	K	650	SER	N-CA	-7.12	1.37	1.46
6	G	745	ALA	N-CA	-7.11	1.37	1.46
2	T	694	TYR	C-N	7.11	1.43	1.33
3	D	667	GLU	N-CA	7.11	1.55	1.46
2	C	650	SER	N-CA	-7.11	1.37	1.46
2	K	694	TYR	C-N	7.11	1.43	1.33
6	X	745	ALA	N-CA	-7.11	1.37	1.46
2	K	579	TYR	CA-C	-7.11	1.44	1.52
3	U	340	ARG	CA-C	-7.11	1.43	1.52
4	V	540	LYS	CA-C	-7.11	1.43	1.52
6	G	394	PHE	CA-C	-7.11	1.45	1.52
3	L	723	GLY	CA-C	-7.11	1.41	1.51
4	M	540	LYS	CA-C	-7.11	1.43	1.52
2	C	763	ALA	CA-C	-7.10	1.43	1.52
3	D	723	GLY	CA-C	-7.10	1.41	1.51
5	F	28	ALA	N-CA	-7.10	1.37	1.46
3	L	340	ARG	CA-C	-7.10	1.43	1.52
2	T	763	ALA	CA-C	-7.10	1.43	1.52
6	X	792	LEU	N-CA	-7.10	1.37	1.46
4	E	613	PHE	CA-C	-7.10	1.43	1.52
2	T	650	SER	N-CA	-7.10	1.37	1.46
2	C	694	TYR	C-N	7.09	1.43	1.33
2	K	511	ILE	N-CA	-7.09	1.38	1.46
4	V	613	PHE	CA-C	-7.09	1.43	1.52
4	M	613	PHE	CA-C	-7.09	1.43	1.52
6	O	898	ALA	C-N	7.09	1.43	1.33
5	W	28	ALA	N-CA	-7.08	1.37	1.46
2	C	216	THR	C-N	7.08	1.41	1.33
4	M	492	VAL	CA-C	-7.08	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	524	ILE	CA-C	-7.08	1.44	1.52
2	K	140	CYS	CA-C	-7.08	1.43	1.52
4	E	540	LYS	CA-C	-7.07	1.43	1.52
2	T	511	ILE	N-CA	-7.07	1.38	1.46
2	T	579	TYR	CA-C	-7.07	1.44	1.52
4	E	136	MET	C-N	7.07	1.43	1.33
5	F	28	ALA	CA-C	-7.07	1.43	1.52
2	K	524	ILE	CA-C	-7.07	1.44	1.52
2	C	511	ILE	N-CA	-7.06	1.38	1.46
2	K	737	LEU	CA-C	-7.06	1.43	1.52
2	C	140	CYS	CA-C	-7.06	1.43	1.52
3	D	340	ARG	CA-C	-7.06	1.43	1.52
4	M	252	PHE	N-CA	-7.06	1.38	1.46
4	V	136	MET	C-N	7.06	1.43	1.33
2	C	420	TRP	C-N	7.05	1.42	1.33
2	C	579	TYR	CA-C	-7.04	1.44	1.52
2	K	216	THR	C-N	7.04	1.41	1.33
2	T	420	TRP	C-N	7.04	1.42	1.33
6	G	132	LEU	N-CA	-7.03	1.37	1.46
3	L	667	GLU	N-CA	7.03	1.55	1.46
6	X	117	ARG	CA-C	-7.03	1.43	1.52
4	M	731	THR	C-N	7.03	1.43	1.33
6	O	132	LEU	N-CA	-7.03	1.37	1.46
5	W	28	ALA	CA-C	-7.03	1.43	1.52
2	C	740	GLY	CA-C	-7.03	1.43	1.52
2	C	748	ILE	N-CA	7.03	1.54	1.46
6	O	394	PHE	CA-C	-7.03	1.45	1.52
2	T	531	LYS	CA-C	-7.03	1.44	1.52
2	T	737	LEU	CA-C	-7.03	1.43	1.52
2	C	737	LEU	CA-C	-7.03	1.43	1.52
2	T	748	ILE	N-CA	7.03	1.54	1.46
6	X	132	LEU	N-CA	-7.03	1.37	1.46
6	G	117	ARG	CA-C	-7.02	1.43	1.52
5	N	28	ALA	CA-C	-7.02	1.43	1.52
2	T	140	CYS	CA-C	-7.02	1.43	1.52
2	C	714	GLU	C-O	7.02	1.32	1.24
4	E	633	SER	C-N	-7.02	1.28	1.33
2	C	524	ILE	CA-C	-7.02	1.44	1.52
2	C	531	LYS	CA-C	-7.02	1.44	1.52
4	M	432	LYS	C-N	7.02	1.43	1.33
2	T	714	GLU	C-O	7.02	1.32	1.24
2	K	714	GLU	C-O	7.01	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	136	MET	C-N	7.01	1.43	1.33
4	E	492	VAL	CA-C	-7.00	1.43	1.52
4	M	633	SER	C-N	-7.00	1.28	1.33
2	T	216	THR	C-N	7.00	1.41	1.33
4	V	731	THR	C-N	7.00	1.43	1.33
2	C	644	ASP	CA-C	-7.00	1.43	1.52
2	C	259	PRO	CA-C	-7.00	1.42	1.52
2	K	740	GLY	CA-C	-7.00	1.43	1.52
4	V	432	LYS	C-N	6.99	1.43	1.33
2	K	420	TRP	C-N	6.99	1.42	1.33
4	V	492	VAL	CA-C	-6.99	1.43	1.52
4	E	432	LYS	C-N	6.98	1.43	1.33
4	V	559	GLU	CA-C	-6.98	1.43	1.52
4	E	731	THR	C-N	6.98	1.43	1.33
6	O	767	THR	C-N	6.98	1.44	1.33
2	T	495	ILE	CA-C	-6.97	1.44	1.52
2	K	531	LYS	CA-C	-6.97	1.44	1.52
2	T	740	GLY	CA-C	-6.97	1.43	1.52
4	M	264	GLU	CA-C	-6.96	1.43	1.52
7	P	86	PHE	N-CA	-6.96	1.38	1.46
2	K	748	ILE	N-CA	6.96	1.54	1.46
2	T	644	ASP	CA-C	-6.96	1.43	1.52
4	M	559	GLU	CA-C	-6.96	1.43	1.52
4	E	559	GLU	CA-C	-6.95	1.43	1.52
6	O	117	ARG	CA-C	-6.95	1.43	1.52
2	K	259	PRO	CA-C	-6.95	1.42	1.52
5	W	87	GLU	CA-C	-6.95	1.43	1.52
2	T	259	PRO	CA-C	-6.95	1.42	1.52
6	G	61	THR	CA-C	-6.95	1.44	1.52
2	T	392	ASP	CA-C	-6.94	1.44	1.52
7	H	86	PHE	N-CA	-6.94	1.38	1.46
5	F	87	GLU	CA-C	-6.94	1.43	1.52
4	M	845	ARG	CA-C	-6.94	1.44	1.52
3	U	114	ILE	CA-C	-6.94	1.44	1.52
4	E	264	GLU	CA-C	-6.93	1.43	1.52
4	V	264	GLU	CA-C	-6.93	1.43	1.52
2	K	644	ASP	CA-C	-6.93	1.43	1.52
2	K	495	ILE	CA-C	-6.93	1.44	1.52
2	K	525	HIS	CA-C	-6.93	1.44	1.52
3	L	114	ILE	CA-C	-6.93	1.44	1.52
2	K	392	ASP	CA-C	-6.92	1.44	1.52
4	V	633	SER	C-N	-6.92	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	N	87	GLU	CA-C	-6.91	1.43	1.52
6	G	767	THR	C-N	6.91	1.44	1.33
6	O	61	THR	CA-C	-6.91	1.44	1.52
3	D	694	GLN	CA-C	6.91	1.62	1.52
6	X	767	THR	C-N	6.91	1.44	1.33
2	T	298	ALA	C-N	6.91	1.44	1.33
6	X	61	THR	CA-C	-6.91	1.44	1.52
7	Y	10	THR	CA-C	-6.90	1.44	1.52
3	D	114	ILE	CA-C	-6.90	1.44	1.52
3	U	694	GLN	CA-C	6.90	1.62	1.52
4	V	64	THR	CA-C	-6.90	1.44	1.52
2	C	495	ILE	CA-C	-6.90	1.44	1.52
6	O	220	GLY	C-N	6.89	1.43	1.33
3	U	507	GLU	CA-C	-6.89	1.44	1.53
3	D	507	GLU	CA-C	-6.89	1.44	1.53
3	L	90	GLU	CA-C	-6.89	1.44	1.52
6	O	93	ARG	CA-C	-6.89	1.46	1.52
3	D	90	GLU	CA-C	-6.88	1.44	1.52
7	P	10	THR	CA-C	-6.88	1.44	1.52
3	U	90	GLU	CA-C	-6.88	1.44	1.52
7	Y	86	PHE	N-CA	-6.88	1.38	1.46
2	C	298	ALA	C-N	6.88	1.44	1.33
3	L	507	GLU	CA-C	-6.88	1.44	1.53
4	E	95	MET	C-N	6.87	1.42	1.33
2	T	111	ALA	C-N	6.87	1.42	1.33
4	M	843	ARG	CA-C	-6.86	1.44	1.52
2	K	298	ALA	C-N	6.86	1.44	1.33
4	E	843	ARG	CA-C	-6.86	1.44	1.52
2	C	392	ASP	CA-C	-6.86	1.44	1.52
2	K	694	TYR	N-CA	-6.86	1.37	1.46
3	L	74	THR	N-CA	-6.86	1.37	1.45
4	V	843	ARG	CA-C	-6.86	1.44	1.52
4	E	845	ARG	CA-C	-6.85	1.44	1.52
4	V	95	MET	C-N	6.85	1.42	1.33
3	L	694	GLN	CA-C	6.85	1.61	1.52
4	V	845	ARG	CA-C	-6.85	1.44	1.52
6	G	93	ARG	CA-C	-6.85	1.46	1.52
4	M	64	THR	CA-C	-6.84	1.44	1.52
7	H	10	THR	CA-C	-6.84	1.44	1.52
2	C	533	GLY	N-CA	-6.84	1.39	1.45
4	M	95	MET	C-N	6.84	1.42	1.33
2	C	525	HIS	CA-C	-6.83	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	64	THR	CA-C	-6.83	1.44	1.52
4	E	121	ARG	C-O	-6.83	1.16	1.24
2	T	525	HIS	CA-C	-6.83	1.44	1.52
2	T	694	TYR	N-CA	-6.82	1.37	1.46
6	X	409	LEU	N-CA	-6.82	1.38	1.46
6	X	220	GLY	C-N	6.82	1.42	1.33
4	M	121	ARG	C-O	-6.81	1.16	1.24
6	G	220	GLY	C-N	6.81	1.42	1.33
4	E	788	THR	CA-C	-6.81	1.44	1.52
3	D	624	PHE	N-CA	-6.81	1.38	1.46
3	L	624	PHE	N-CA	-6.81	1.38	1.46
3	D	74	THR	N-CA	-6.80	1.37	1.45
6	G	217	GLN	CA-C	-6.80	1.44	1.52
2	C	694	TYR	N-CA	-6.80	1.37	1.46
3	U	502	HIS	CA-C	-6.80	1.44	1.53
3	U	624	PHE	N-CA	-6.80	1.38	1.46
3	U	74	THR	N-CA	-6.79	1.37	1.45
4	V	121	ARG	C-O	-6.79	1.16	1.24
5	N	14	LYS	CA-C	-6.79	1.44	1.52
3	U	205	GLY	CA-C	-6.79	1.46	1.51
6	G	759	LEU	N-CA	-6.78	1.37	1.46
5	W	14	LYS	CA-C	-6.78	1.44	1.52
3	L	205	GLY	CA-C	-6.78	1.46	1.51
3	L	502	HIS	CA-C	-6.78	1.44	1.53
6	X	93	ARG	CA-C	-6.78	1.46	1.52
5	F	14	LYS	CA-C	-6.78	1.44	1.52
3	D	502	HIS	CA-C	-6.78	1.44	1.53
6	O	409	LEU	N-CA	-6.78	1.38	1.46
2	T	499	ASP	N-CA	-6.78	1.37	1.46
4	V	788	THR	CA-C	-6.78	1.44	1.52
3	D	205	GLY	CA-C	-6.78	1.46	1.51
6	O	759	LEU	N-CA	-6.78	1.37	1.46
2	C	410	GLY	C-N	6.77	1.42	1.33
3	U	769	VAL	CA-C	-6.77	1.44	1.52
4	M	788	THR	CA-C	-6.77	1.44	1.52
6	X	759	LEU	N-CA	-6.77	1.37	1.46
3	D	139	GLU	CA-C	-6.77	1.44	1.52
2	K	410	GLY	C-N	6.76	1.42	1.33
2	C	464	LEU	N-CA	-6.76	1.39	1.46
2	C	499	ASP	N-CA	-6.75	1.37	1.46
6	G	409	LEU	N-CA	-6.75	1.38	1.46
2	C	510	ALA	N-CA	-6.75	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	479	ILE	N-CA	-6.75	1.38	1.46
2	K	533	GLY	N-CA	-6.75	1.39	1.45
2	K	510	ALA	N-CA	-6.75	1.38	1.47
2	K	499	ASP	N-CA	-6.74	1.37	1.46
3	L	660	LEU	N-CA	-6.74	1.38	1.46
3	U	660	LEU	N-CA	-6.74	1.38	1.46
4	E	483	GLU	CA-C	-6.74	1.44	1.52
6	X	217	GLN	CA-C	-6.74	1.44	1.52
3	D	660	LEU	N-CA	-6.73	1.38	1.46
6	G	518	MET	N-CA	-6.73	1.38	1.46
2	T	464	LEU	N-CA	-6.73	1.39	1.46
3	L	288	LEU	C-N	6.73	1.39	1.33
6	O	229	GLU	C-N	6.73	1.43	1.33
2	T	288	ARG	CA-C	-6.73	1.44	1.52
3	U	479	ILE	N-CA	-6.73	1.38	1.46
6	X	229	GLU	C-N	6.73	1.43	1.33
6	X	518	MET	N-CA	-6.73	1.38	1.46
2	T	510	ALA	N-CA	-6.72	1.38	1.47
3	L	479	ILE	N-CA	-6.72	1.38	1.46
6	O	217	GLN	CA-C	-6.71	1.44	1.52
4	E	404	MET	C-N	6.71	1.42	1.33
2	K	723	ALA	CA-C	-6.71	1.42	1.52
6	G	229	GLU	C-N	6.71	1.43	1.33
2	K	111	ALA	C-N	6.71	1.42	1.33
3	L	749	GLY	C-N	6.71	1.40	1.33
3	L	769	VAL	CA-C	-6.71	1.44	1.52
2	K	464	LEU	N-CA	-6.70	1.39	1.46
2	T	533	GLY	N-CA	-6.70	1.39	1.45
3	U	139	GLU	CA-C	-6.70	1.44	1.52
6	O	518	MET	N-CA	-6.70	1.38	1.46
3	U	199	LYS	CA-C	-6.70	1.45	1.52
3	D	288	LEU	C-N	6.70	1.39	1.33
2	T	723	ALA	CA-C	-6.69	1.42	1.52
4	E	337	ASN	N-CA	-6.69	1.37	1.46
2	T	623	GLN	CA-C	-6.69	1.45	1.53
2	C	723	ALA	CA-C	-6.69	1.42	1.52
3	L	331	GLY	CA-C	-6.68	1.42	1.51
2	T	410	GLY	C-N	6.68	1.42	1.33
2	K	121	ASN	CA-C	-6.68	1.44	1.52
2	K	288	ARG	CA-C	-6.68	1.44	1.52
3	D	769	VAL	CA-C	-6.67	1.44	1.52
2	K	741	ASP	CA-C	-6.67	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	226	ASP	CA-C	-6.67	1.43	1.52
3	L	139	GLU	CA-C	-6.67	1.44	1.52
2	C	121	ASN	CA-C	-6.67	1.44	1.52
3	D	83	VAL	N-CA	-6.67	1.38	1.46
2	T	741	ASP	CA-C	-6.67	1.45	1.52
3	U	53	PHE	N-CA	-6.67	1.37	1.46
4	V	404	MET	C-N	6.67	1.42	1.33
2	K	226	ASP	CA-C	-6.66	1.43	1.52
3	L	46	THR	CA-C	-6.66	1.43	1.52
4	M	838	HIS	CA-C	-6.66	1.44	1.52
2	T	121	ASN	CA-C	-6.66	1.44	1.52
4	M	404	MET	C-N	6.66	1.42	1.33
6	X	741	VAL	N-CA	-6.65	1.38	1.46
2	K	623	GLN	CA-C	-6.65	1.45	1.53
3	L	83	VAL	N-CA	-6.65	1.38	1.46
6	G	196	MET	N-CA	-6.65	1.38	1.46
3	U	331	GLY	CA-C	-6.65	1.42	1.51
3	D	331	GLY	CA-C	-6.65	1.42	1.51
4	V	483	GLU	CA-C	-6.65	1.44	1.52
2	C	226	ASP	CA-C	-6.64	1.43	1.52
4	E	170	SER	N-CA	-6.64	1.38	1.46
3	U	46	THR	CA-C	-6.64	1.43	1.52
6	O	853	ALA	C-N	6.63	1.43	1.33
7	H	58	TYR	N-CA	-6.63	1.38	1.46
3	L	199	LYS	CA-C	-6.63	1.45	1.52
2	T	602	ALA	C-N	6.63	1.42	1.33
6	G	853	ALA	C-N	6.63	1.43	1.33
4	M	483	GLU	CA-C	-6.63	1.44	1.52
6	G	380	ARG	CA-C	-6.62	1.44	1.52
2	C	288	ARG	CA-C	-6.62	1.44	1.52
4	E	838	HIS	CA-C	-6.62	1.44	1.52
6	X	380	ARG	CA-C	-6.62	1.44	1.52
2	C	741	ASP	CA-C	-6.62	1.45	1.52
3	D	649	LEU	C-N	6.62	1.42	1.33
4	M	337	ASN	N-CA	-6.62	1.38	1.46
4	V	170	SER	N-CA	-6.62	1.38	1.46
2	C	111	ALA	C-N	6.62	1.42	1.33
6	X	196	MET	N-CA	-6.62	1.38	1.46
2	C	623	GLN	CA-C	-6.61	1.45	1.53
2	T	463	ASN	N-CA	-6.61	1.37	1.46
4	V	294	LEU	CA-C	-6.61	1.44	1.52
4	V	337	ASN	N-CA	-6.61	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	X	853	ALA	C-N	6.61	1.43	1.33
6	G	460	TRP	C-N	6.61	1.42	1.33
2	K	463	ASN	N-CA	-6.61	1.37	1.46
3	U	649	LEU	C-N	6.61	1.42	1.33
3	U	749	GLY	C-N	6.61	1.40	1.33
7	P	58	TYR	N-CA	-6.61	1.38	1.46
3	D	46	THR	CA-C	-6.61	1.43	1.52
6	G	386	THR	C-N	6.61	1.42	1.33
7	Y	58	TYR	N-CA	-6.61	1.38	1.46
4	V	351	THR	CA-C	6.61	1.61	1.52
3	L	649	LEU	C-N	6.60	1.42	1.33
5	F	52	THR	N-CA	-6.60	1.37	1.46
3	L	53	PHE	N-CA	-6.60	1.37	1.46
6	O	460	TRP	C-N	6.60	1.42	1.33
4	E	351	THR	CA-C	6.60	1.61	1.52
2	K	602	ALA	C-N	6.59	1.42	1.33
3	D	749	GLY	C-N	6.59	1.40	1.33
4	E	229	TYR	CA-C	-6.59	1.44	1.52
2	K	42	THR	CA-C	-6.59	1.44	1.52
4	M	170	SER	N-CA	-6.59	1.38	1.46
4	M	294	LEU	CA-C	-6.59	1.44	1.52
6	O	122	ARG	N-CA	-6.59	1.38	1.46
4	E	294	LEU	CA-C	-6.58	1.44	1.52
5	W	52	THR	N-CA	-6.58	1.37	1.46
4	M	351	THR	CA-C	6.58	1.61	1.52
6	O	380	ARG	CA-C	-6.58	1.44	1.52
2	T	42	THR	CA-C	-6.58	1.44	1.52
3	U	83	VAL	N-CA	-6.58	1.38	1.46
3	D	697	GLY	CA-C	-6.57	1.45	1.52
6	O	914	SER	CA-C	-6.57	1.44	1.52
3	D	541	ASN	CA-C	-6.57	1.44	1.53
6	G	914	SER	CA-C	-6.57	1.44	1.52
3	L	697	GLY	CA-C	-6.57	1.45	1.52
2	C	463	ASN	N-CA	-6.57	1.37	1.46
2	C	229	VAL	N-CA	-6.57	1.38	1.46
3	U	288	LEU	C-N	6.57	1.39	1.33
6	X	386	THR	C-N	6.57	1.42	1.33
5	N	52	THR	N-CA	-6.57	1.38	1.46
6	O	386	THR	C-N	6.56	1.42	1.33
6	O	741	VAL	N-CA	-6.56	1.38	1.46
2	C	602	ALA	C-N	6.56	1.42	1.33
4	E	49	THR	CA-C	-6.56	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	49	THR	CA-C	-6.56	1.44	1.52
3	D	53	PHE	N-CA	-6.56	1.37	1.46
6	G	741	VAL	N-CA	-6.56	1.38	1.46
6	O	196	MET	N-CA	-6.56	1.38	1.46
4	V	838	HIS	CA-C	-6.56	1.44	1.52
6	X	914	SER	CA-C	-6.56	1.44	1.52
3	U	404	ALA	N-CA	-6.55	1.37	1.45
6	X	121	LEU	CA-C	-6.55	1.44	1.52
6	X	460	TRP	C-N	6.55	1.42	1.33
2	K	229	VAL	N-CA	-6.55	1.38	1.46
3	U	697	GLY	CA-C	-6.55	1.45	1.52
3	D	227	GLY	CA-C	-6.55	1.42	1.51
4	E	423	SER	N-CA	-6.55	1.38	1.46
4	M	423	SER	N-CA	-6.54	1.38	1.46
3	U	80	GLN	N-CA	-6.54	1.37	1.45
3	D	199	LYS	CA-C	-6.54	1.45	1.52
2	K	521	LEU	C-O	-6.53	1.16	1.24
6	G	456	ARG	CA-C	-6.53	1.44	1.52
4	V	229	TYR	CA-C	-6.53	1.44	1.52
6	O	121	LEU	CA-C	-6.53	1.44	1.52
4	V	49	THR	CA-C	-6.53	1.44	1.52
3	D	404	ALA	N-CA	-6.53	1.37	1.45
3	U	297	VAL	CA-C	-6.53	1.44	1.52
6	X	122	ARG	N-CA	-6.53	1.38	1.46
2	T	229	VAL	N-CA	-6.52	1.38	1.46
5	N	89	MET	CA-C	-6.52	1.44	1.52
5	F	89	MET	CA-C	-6.52	1.44	1.52
3	L	541	ASN	CA-C	-6.52	1.44	1.53
6	G	122	ARG	N-CA	-6.52	1.38	1.46
3	D	297	VAL	CA-C	-6.51	1.44	1.52
2	C	42	THR	CA-C	-6.51	1.44	1.52
3	U	227	GLY	CA-C	-6.51	1.42	1.51
3	L	227	GLY	CA-C	-6.50	1.42	1.51
3	L	283	SER	C-N	6.50	1.42	1.33
3	L	404	ALA	N-CA	-6.50	1.37	1.45
6	O	456	ARG	CA-C	-6.50	1.44	1.52
4	E	431	SER	CA-C	-6.50	1.44	1.52
4	M	431	SER	CA-C	-6.50	1.44	1.52
6	G	121	LEU	CA-C	-6.49	1.44	1.52
5	W	89	MET	CA-C	-6.49	1.44	1.52
6	X	884	ILE	C-N	6.49	1.42	1.34
3	U	541	ASN	CA-C	-6.49	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	431	SER	CA-C	-6.49	1.44	1.52
3	D	81	ILE	CA-C	-6.48	1.45	1.52
6	X	456	ARG	CA-C	-6.48	1.44	1.52
2	C	436	LEU	N-CA	-6.47	1.37	1.45
3	L	297	VAL	CA-C	-6.47	1.45	1.52
6	O	884	ILE	C-N	6.47	1.42	1.34
2	C	521	LEU	C-O	-6.47	1.16	1.24
2	K	436	LEU	N-CA	-6.47	1.38	1.45
3	U	116	THR	CA-C	-6.47	1.44	1.52
4	V	423	SER	N-CA	-6.47	1.38	1.46
3	D	123	ILE	N-CA	-6.46	1.38	1.46
3	U	81	ILE	CA-C	-6.46	1.45	1.52
3	D	671	LYS	CA-C	-6.46	1.44	1.52
5	N	101	LEU	CA-C	-6.46	1.44	1.52
3	U	123	ILE	N-CA	-6.46	1.38	1.46
3	U	283	SER	C-N	6.46	1.42	1.33
6	X	431	PHE	N-CA	-6.46	1.37	1.46
2	K	218	PRO	N-CA	-6.46	1.39	1.47
4	V	608	THR	C-N	6.46	1.42	1.33
4	E	79	SER	CA-C	-6.45	1.45	1.52
3	D	510	ILE	CA-C	-6.45	1.45	1.52
6	G	884	ILE	C-N	6.45	1.42	1.34
4	M	229	TYR	CA-C	-6.45	1.44	1.52
3	L	510	ILE	CA-C	-6.45	1.45	1.52
3	D	283	SER	C-N	6.44	1.42	1.33
5	W	101	LEU	CA-C	-6.44	1.44	1.52
2	C	218	PRO	N-CA	-6.44	1.39	1.47
2	C	433	HIS	C-N	6.44	1.42	1.33
3	D	116	THR	CA-C	-6.44	1.44	1.52
2	K	433	HIS	C-N	6.44	1.42	1.33
3	L	80	GLN	N-CA	-6.44	1.38	1.45
4	E	551	LEU	N-CA	-6.44	1.37	1.46
4	M	551	LEU	N-CA	-6.44	1.37	1.46
2	T	218	PRO	N-CA	-6.44	1.39	1.47
3	D	80	GLN	N-CA	-6.43	1.37	1.45
3	L	123	ILE	N-CA	-6.43	1.38	1.46
6	G	364	VAL	CA-C	-6.43	1.46	1.53
3	L	116	THR	N-CA	-6.42	1.37	1.45
4	M	79	SER	CA-C	-6.42	1.45	1.52
3	U	510	ILE	CA-C	-6.42	1.45	1.52
2	C	231	ILE	CA-C	-6.42	1.45	1.52
3	L	81	ILE	CA-C	-6.42	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	116	THR	CA-C	-6.42	1.44	1.52
4	M	614	GLN	CA-C	-6.42	1.44	1.52
7	P	110	ILE	N-CA	-6.42	1.38	1.46
2	T	433	HIS	C-N	6.42	1.42	1.33
2	T	436	LEU	N-CA	-6.42	1.38	1.45
6	O	431	PHE	N-CA	-6.41	1.37	1.46
2	T	231	ILE	CA-C	-6.41	1.45	1.52
6	G	431	PHE	N-CA	-6.41	1.37	1.46
7	Y	110	ILE	N-CA	-6.41	1.38	1.46
2	T	521	LEU	C-O	-6.41	1.16	1.24
4	E	608	THR	C-N	6.40	1.42	1.33
3	L	76	ALA	N-CA	-6.40	1.36	1.46
2	T	300	HIS	CA-C	-6.40	1.45	1.52
4	V	101	ASP	C-N	6.40	1.41	1.34
7	H	110	ILE	N-CA	-6.40	1.38	1.46
4	V	551	LEU	N-CA	-6.40	1.38	1.46
4	E	614	GLN	CA-C	-6.40	1.44	1.52
3	L	431	GLU	C-N	6.39	1.41	1.33
4	M	608	THR	C-N	6.39	1.42	1.33
3	U	116	THR	N-CA	-6.39	1.37	1.45
4	E	101	ASP	C-N	6.39	1.41	1.34
6	O	364	VAL	CA-C	-6.39	1.46	1.53
4	V	614	GLN	CA-C	-6.39	1.44	1.52
5	F	101	LEU	CA-C	-6.39	1.44	1.52
2	C	102	HIS	CA-C	-6.39	1.44	1.52
3	U	671	LYS	CA-C	-6.39	1.44	1.52
6	O	780	ASP	N-CA	-6.38	1.37	1.46
3	L	671	LYS	CA-C	-6.38	1.44	1.52
3	D	796	ASN	C-N	6.38	1.41	1.33
3	L	796	ASN	C-N	6.37	1.41	1.33
3	U	76	ALA	N-CA	-6.37	1.36	1.46
3	U	796	ASN	C-N	6.37	1.41	1.33
4	E	745	GLU	CA-C	6.36	1.60	1.52
2	K	300	HIS	CA-C	-6.36	1.45	1.52
6	G	509	GLY	CA-C	-6.36	1.42	1.51
2	K	231	ILE	CA-C	-6.36	1.45	1.52
4	M	745	GLU	CA-C	6.36	1.60	1.52
4	M	101	ASP	C-N	6.36	1.41	1.34
2	C	300	HIS	CA-C	-6.35	1.45	1.52
2	T	102	HIS	CA-C	-6.35	1.44	1.52
3	D	431	GLU	C-N	6.35	1.41	1.33
3	D	76	ALA	N-CA	-6.35	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	422	GLU	CA-C	-6.35	1.44	1.52
6	X	364	VAL	CA-C	-6.35	1.46	1.53
2	K	614	MET	N-CA	-6.34	1.38	1.46
6	O	922	ALA	CA-C	-6.34	1.45	1.52
4	V	745	GLU	CA-C	6.34	1.60	1.52
2	K	102	HIS	CA-C	-6.34	1.44	1.52
4	V	79	SER	CA-C	-6.34	1.45	1.52
6	X	422	GLU	CA-C	-6.34	1.44	1.52
3	L	222	VAL	N-CA	-6.33	1.39	1.46
6	X	922	ALA	CA-C	-6.33	1.45	1.52
3	D	116	THR	N-CA	-6.32	1.37	1.45
4	V	301	ALA	C-N	6.32	1.42	1.34
4	E	564	GLN	N-CA	-6.32	1.38	1.46
4	V	60	HIS	C-N	6.32	1.41	1.33
6	O	18	SER	CA-C	-6.32	1.44	1.52
4	V	632	SER	C-N	6.32	1.42	1.33
4	V	797	LEU	CA-C	-6.32	1.44	1.52
6	G	922	ALA	CA-C	-6.31	1.45	1.52
6	X	780	ASP	N-CA	-6.31	1.37	1.46
2	C	614	MET	N-CA	-6.31	1.38	1.46
3	D	654	LEU	CA-C	-6.30	1.44	1.52
3	U	654	LEU	CA-C	-6.30	1.44	1.52
6	X	85	VAL	C-N	6.30	1.43	1.33
2	K	535	TRP	C-N	6.30	1.42	1.33
4	M	301	ALA	C-N	6.30	1.42	1.34
6	X	18	SER	CA-C	-6.30	1.44	1.52
3	U	774	ARG	C-N	6.30	1.42	1.33
4	V	564	GLN	N-CA	-6.30	1.38	1.46
6	O	509	GLY	CA-C	-6.30	1.43	1.51
6	O	748	HIS	N-CA	-6.30	1.37	1.45
6	G	422	GLU	CA-C	-6.30	1.44	1.52
6	G	780	ASP	N-CA	-6.29	1.37	1.46
6	G	85	VAL	C-N	6.29	1.43	1.33
3	L	654	LEU	CA-C	-6.29	1.44	1.52
3	D	774	ARG	C-N	6.29	1.42	1.33
6	G	18	SER	CA-C	-6.29	1.44	1.52
2	T	614	MET	N-CA	-6.28	1.38	1.46
4	E	480	VAL	CA-C	-6.28	1.44	1.52
3	U	431	GLU	C-N	6.28	1.41	1.33
2	K	135	ASN	C-N	6.28	1.41	1.33
6	O	278	ILE	CA-C	-6.28	1.45	1.52
6	X	509	GLY	CA-C	-6.28	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	374	GLU	CA-C	-6.28	1.44	1.52
4	E	378	VAL	N-CA	-6.28	1.39	1.46
4	E	797	LEU	CA-C	-6.28	1.44	1.52
2	T	135	ASN	C-N	6.28	1.41	1.33
6	X	173	ALA	N-CA	-6.28	1.37	1.46
2	T	374	GLU	CA-C	-6.27	1.44	1.52
3	U	104	CYS	CA-C	-6.27	1.44	1.52
3	U	222	VAL	N-CA	-6.27	1.39	1.46
6	X	748	HIS	N-CA	-6.27	1.38	1.45
2	C	135	ASN	C-N	6.27	1.41	1.33
4	M	564	GLN	N-CA	-6.27	1.38	1.46
7	H	91	PRO	C-N	6.27	1.42	1.33
2	T	535	TRP	C-N	6.26	1.42	1.33
3	D	711	MET	CA-C	-6.26	1.46	1.53
2	K	723	ALA	C-N	6.26	1.41	1.33
6	X	907	ALA	N-CA	-6.26	1.38	1.46
4	E	60	HIS	C-N	6.26	1.41	1.33
4	E	632	SER	C-N	6.26	1.42	1.33
5	F	45	GLU	N-CA	-6.26	1.38	1.46
6	G	278	ILE	CA-C	-6.26	1.45	1.52
6	G	774	GLU	CA-C	-6.26	1.45	1.52
4	M	480	VAL	CA-C	-6.26	1.44	1.52
4	M	632	SER	C-N	6.26	1.42	1.33
3	D	222	VAL	N-CA	-6.26	1.39	1.46
4	E	301	ALA	C-N	6.26	1.42	1.34
2	K	374	GLU	CA-C	-6.26	1.44	1.52
4	M	364	ILE	N-CA	-6.26	1.38	1.46
3	L	114	ILE	N-CA	-6.25	1.38	1.46
7	P	108	ASP	CA-C	-6.25	1.44	1.52
3	D	104	CYS	CA-C	-6.25	1.44	1.52
3	L	711	MET	CA-C	-6.25	1.46	1.53
2	C	535	TRP	C-N	6.25	1.42	1.33
3	L	774	ARG	C-N	6.25	1.42	1.33
4	M	378	VAL	N-CA	-6.25	1.39	1.46
4	V	378	VAL	N-CA	-6.25	1.39	1.46
2	C	723	ALA	C-N	6.25	1.41	1.33
3	D	114	ILE	N-CA	-6.25	1.38	1.46
6	G	756	LEU	CA-C	-6.25	1.45	1.52
6	X	278	ILE	CA-C	-6.24	1.45	1.52
7	P	91	PRO	C-N	6.24	1.42	1.33
2	T	135	ASN	CA-C	-6.24	1.44	1.52
3	D	80	GLN	CA-C	-6.24	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	104	CYS	CA-C	-6.24	1.44	1.52
4	M	60	HIS	C-N	6.24	1.41	1.33
6	O	173	ALA	N-CA	-6.24	1.37	1.46
4	V	480	VAL	CA-C	-6.24	1.44	1.52
6	G	173	ALA	N-CA	-6.23	1.37	1.46
6	G	907	ALA	N-CA	-6.23	1.38	1.46
3	L	80	GLN	CA-C	-6.23	1.45	1.52
5	N	45	GLU	N-CA	-6.23	1.38	1.46
2	C	124	SER	C-N	6.23	1.43	1.33
5	W	98	PHE	CA-C	-6.23	1.45	1.52
6	X	756	LEU	CA-C	-6.23	1.45	1.52
6	G	748	HIS	N-CA	-6.23	1.38	1.45
6	O	756	LEU	CA-C	-6.23	1.45	1.52
3	U	114	ILE	N-CA	-6.23	1.38	1.46
2	K	135	ASN	CA-C	-6.22	1.44	1.52
6	O	85	VAL	C-N	6.22	1.43	1.33
4	V	364	ILE	N-CA	-6.22	1.38	1.46
4	E	364	ILE	N-CA	-6.22	1.38	1.46
6	O	907	ALA	N-CA	-6.22	1.38	1.46
2	T	723	ALA	C-N	6.22	1.41	1.33
5	N	30	TYR	C-N	6.21	1.42	1.33
5	F	30	TYR	C-N	6.21	1.42	1.33
2	K	124	SER	C-N	6.21	1.43	1.33
3	U	330	MET	CA-C	-6.21	1.45	1.52
5	N	98	PHE	CA-C	-6.21	1.45	1.52
7	Y	91	PRO	C-N	6.21	1.42	1.33
6	G	903	CYS	CA-C	-6.21	1.45	1.52
4	M	797	LEU	CA-C	-6.21	1.44	1.52
2	T	672	ASN	CA-C	-6.21	1.44	1.52
2	T	449	GLN	C-N	6.21	1.40	1.33
2	K	449	GLN	C-N	6.20	1.40	1.33
2	C	672	ASN	CA-C	-6.20	1.44	1.52
6	X	774	GLU	CA-C	-6.20	1.45	1.52
2	C	449	GLN	C-N	6.20	1.40	1.33
5	F	98	PHE	CA-C	-6.20	1.45	1.52
4	M	520	ASP	CA-C	-6.20	1.46	1.53
2	C	286	THR	N-CA	-6.20	1.38	1.46
6	O	774	GLU	CA-C	-6.20	1.45	1.52
4	E	520	ASP	CA-C	-6.20	1.46	1.53
4	V	114	THR	C-N	6.20	1.39	1.33
3	U	711	MET	CA-C	-6.20	1.46	1.53
2	T	286	THR	N-CA	-6.19	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	57	GLY	N-CA	6.19	1.53	1.45
6	O	36	LYS	CA-C	-6.19	1.44	1.52
3	U	255	ILE	N-CA	-6.19	1.39	1.46
5	W	45	GLU	N-CA	-6.19	1.39	1.46
4	V	520	ASP	CA-C	-6.19	1.46	1.53
6	X	266	GLY	CA-C	-6.19	1.45	1.52
4	V	280	CYS	N-CA	-6.19	1.38	1.46
3	D	414	ILE	N-CA	-6.18	1.39	1.46
6	G	36	LYS	CA-C	-6.18	1.44	1.52
4	M	114	THR	C-N	6.18	1.39	1.33
2	C	135	ASN	CA-C	-6.18	1.44	1.52
7	H	108	ASP	CA-C	-6.18	1.45	1.52
2	C	691	GLU	CA-C	-6.18	1.44	1.52
6	X	903	CYS	CA-C	-6.18	1.45	1.52
4	E	114	THR	C-N	6.18	1.39	1.33
6	O	403	PRO	C-N	6.18	1.41	1.34
6	X	575	LYS	CA-C	-6.18	1.46	1.53
4	V	86	ARG	C-N	6.17	1.42	1.33
3	U	80	GLN	CA-C	-6.17	1.45	1.52
7	Y	108	ASP	CA-C	-6.17	1.45	1.52
6	O	962	SER	N-CA	-6.17	1.38	1.46
2	K	672	ASN	CA-C	-6.17	1.44	1.52
2	K	691	GLU	CA-C	-6.17	1.44	1.52
6	X	57	GLY	N-CA	6.17	1.53	1.45
3	L	376	ILE	CA-C	-6.17	1.45	1.52
6	X	36	LYS	CA-C	-6.17	1.44	1.52
6	O	266	GLY	CA-C	-6.16	1.45	1.52
6	O	903	CYS	CA-C	-6.16	1.45	1.52
4	M	863	GLU	CA-C	6.16	1.60	1.52
2	T	124	SER	C-N	6.16	1.43	1.33
2	C	378	LEU	N-CA	-6.16	1.38	1.46
3	D	391	ALA	C-N	6.16	1.42	1.33
6	G	266	GLY	CA-C	-6.16	1.45	1.52
6	O	57	GLY	N-CA	6.16	1.53	1.45
4	V	863	GLU	CA-C	6.16	1.60	1.52
3	U	376	ILE	CA-C	-6.16	1.45	1.52
6	O	255	SER	C-N	6.15	1.42	1.33
2	C	784	THR	C-N	6.15	1.40	1.33
3	D	330	MET	CA-C	-6.15	1.45	1.52
6	X	255	SER	C-N	6.15	1.42	1.33
2	K	378	LEU	N-CA	-6.15	1.38	1.46
3	D	520	ILE	CA-C	-6.14	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	414	ILE	N-CA	-6.14	1.39	1.46
3	D	376	ILE	CA-C	-6.14	1.45	1.52
6	G	575	LYS	CA-C	-6.14	1.46	1.53
6	G	962	SER	N-CA	-6.14	1.38	1.46
6	X	962	SER	N-CA	-6.14	1.38	1.46
4	E	863	GLU	CA-C	6.14	1.60	1.52
3	L	414	ILE	N-CA	-6.14	1.39	1.46
3	U	391	ALA	C-N	6.14	1.42	1.33
4	V	783	PHE	C-N	6.14	1.41	1.33
6	G	535	LYS	CA-C	-6.13	1.44	1.52
4	E	280	CYS	N-CA	-6.13	1.38	1.46
2	C	274	ARG	CA-C	-6.13	1.45	1.52
6	G	255	SER	C-N	6.13	1.42	1.33
4	M	280	CYS	N-CA	-6.13	1.38	1.46
2	T	691	GLU	CA-C	-6.13	1.44	1.52
3	D	255	ILE	N-CA	-6.12	1.39	1.46
4	E	783	PHE	C-N	6.12	1.41	1.33
6	X	535	LYS	CA-C	-6.12	1.44	1.52
4	M	783	PHE	C-N	6.12	1.41	1.33
6	O	535	LYS	CA-C	-6.12	1.44	1.52
2	T	274	ARG	CA-C	-6.12	1.45	1.52
3	U	520	ILE	CA-C	-6.12	1.44	1.52
2	C	84	ARG	N-CA	-6.12	1.38	1.45
4	V	382	ALA	CA-C	-6.12	1.45	1.52
2	K	274	ARG	CA-C	-6.12	1.45	1.52
3	L	520	ILE	CA-C	-6.12	1.44	1.52
3	D	542	ARG	CA-C	-6.11	1.45	1.52
5	W	16	ILE	CA-C	-6.11	1.45	1.52
5	W	30	TYR	C-N	6.11	1.41	1.33
3	L	255	ILE	N-CA	-6.11	1.39	1.46
4	E	384	SER	C-N	-6.11	1.25	1.33
4	V	841	LEU	CA-C	-6.11	1.45	1.52
3	U	542	ARG	CA-C	-6.10	1.45	1.52
3	L	330	MET	CA-C	-6.10	1.45	1.52
6	O	417	ALA	CA-C	-6.10	1.44	1.52
3	L	391	ALA	C-N	6.10	1.42	1.33
2	C	485	SER	CA-C	-6.10	1.45	1.52
6	G	403	PRO	C-N	6.09	1.41	1.34
4	M	86	ARG	C-N	6.09	1.42	1.33
4	M	341	ALA	CA-C	-6.09	1.44	1.52
4	E	86	ARG	C-N	6.09	1.42	1.33
2	T	378	LEU	N-CA	-6.09	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	84	ARG	N-CA	-6.09	1.38	1.45
4	V	341	ALA	CA-C	-6.09	1.44	1.52
2	K	286	THR	N-CA	-6.09	1.38	1.46
3	L	542	ARG	CA-C	-6.08	1.45	1.52
2	T	605	ASN	C-N	6.08	1.41	1.33
4	E	382	ALA	CA-C	-6.08	1.45	1.52
4	V	290	SER	N-CA	-6.08	1.37	1.45
6	X	417	ALA	CA-C	-6.08	1.44	1.52
3	D	441	VAL	C-O	6.08	1.30	1.24
6	X	403	PRO	C-N	6.08	1.41	1.34
2	K	784	THR	C-N	6.08	1.40	1.33
3	L	622	ALA	N-CA	-6.08	1.39	1.46
4	M	319	PRO	C-N	6.08	1.42	1.33
2	T	132	THR	CA-C	-6.08	1.45	1.52
5	F	16	ILE	CA-C	-6.07	1.45	1.52
2	K	605	ASN	C-N	6.07	1.41	1.33
2	C	183	GLY	N-CA	6.07	1.52	1.45
4	M	382	ALA	CA-C	-6.07	1.45	1.52
6	O	575	LYS	CA-C	-6.07	1.46	1.53
3	D	622	ALA	N-CA	-6.07	1.39	1.46
2	T	485	SER	CA-C	-6.07	1.45	1.52
3	U	441	VAL	C-O	6.07	1.30	1.24
6	X	358	ILE	CA-C	-6.07	1.45	1.52
4	E	290	SER	N-CA	-6.06	1.37	1.45
5	N	16	ILE	CA-C	-6.06	1.45	1.52
2	T	784	THR	C-N	6.06	1.40	1.33
6	G	417	ALA	CA-C	-6.06	1.45	1.52
2	T	84	ARG	N-CA	-6.06	1.38	1.45
4	E	841	LEU	CA-C	-6.06	1.45	1.52
6	G	358	ILE	CA-C	-6.06	1.45	1.52
4	M	841	LEU	CA-C	-6.05	1.45	1.52
4	M	384	SER	C-N	-6.05	1.25	1.33
4	M	290	SER	N-CA	-6.05	1.37	1.45
3	U	741	CYS	C-O	-6.05	1.17	1.24
3	U	622	ALA	N-CA	-6.05	1.39	1.46
4	E	341	ALA	CA-C	-6.05	1.45	1.52
3	L	441	VAL	C-O	6.05	1.30	1.24
2	C	487	LYS	CA-C	-6.04	1.45	1.52
6	G	766	ASP	CA-C	-6.04	1.45	1.53
4	V	82	PRO	N-CA	-6.04	1.39	1.47
3	L	124	LYS	CA-C	-6.04	1.45	1.52
3	L	440	GLY	CA-C	-6.04	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	724	LYS	N-CA	-6.04	1.38	1.46
2	C	49	GLU	C-N	6.04	1.41	1.33
4	M	82	PRO	N-CA	-6.04	1.39	1.47
3	D	613	ILE	CA-C	-6.04	1.46	1.52
6	G	374	GLU	CA-C	6.04	1.60	1.52
3	U	124	LYS	CA-C	-6.03	1.45	1.52
2	C	614	MET	C-N	6.03	1.41	1.33
6	G	214	ASP	N-CA	-6.03	1.39	1.46
2	K	97	ARG	CA-C	-6.03	1.44	1.52
6	O	214	ASP	N-CA	-6.03	1.39	1.46
2	K	183	GLY	N-CA	6.03	1.52	1.45
2	K	485	SER	CA-C	-6.03	1.45	1.52
3	L	308	MET	N-CA	-6.03	1.38	1.46
3	U	613	ILE	CA-C	-6.03	1.46	1.52
6	X	766	ASP	CA-C	-6.03	1.45	1.53
3	D	724	LYS	N-CA	-6.02	1.38	1.46
2	T	183	GLY	N-CA	6.02	1.52	1.45
4	V	384	SER	C-N	-6.02	1.25	1.33
2	T	689	ILE	C-N	6.02	1.41	1.33
4	V	319	PRO	C-N	6.02	1.41	1.33
3	L	613	ILE	CA-C	-6.02	1.46	1.52
4	M	825	THR	CA-C	-6.02	1.45	1.52
6	O	358	ILE	CA-C	-6.02	1.45	1.52
6	O	766	ASP	CA-C	-6.02	1.45	1.53
4	V	91	THR	C-N	6.02	1.41	1.33
6	X	374	GLU	CA-C	6.02	1.60	1.52
2	K	132	THR	CA-C	-6.01	1.45	1.52
2	C	97	ARG	CA-C	-6.01	1.44	1.52
2	T	97	ARG	CA-C	-6.01	1.44	1.52
3	U	308	MET	N-CA	-6.01	1.38	1.46
4	E	82	PRO	N-CA	-6.01	1.39	1.47
4	E	326	ASN	CA-C	-6.01	1.45	1.52
3	L	741	CYS	C-O	-6.00	1.17	1.24
3	D	741	CYS	C-O	-6.00	1.17	1.24
2	K	487	LYS	CA-C	-6.00	1.45	1.52
4	E	91	THR	C-N	6.00	1.41	1.33
3	D	397	ALA	CA-C	-6.00	1.44	1.52
2	C	605	ASN	C-N	5.99	1.41	1.33
2	K	49	GLU	C-N	5.99	1.41	1.33
3	U	397	ALA	CA-C	-5.99	1.44	1.52
6	X	251	ASN	C-N	5.99	1.41	1.33
2	K	689	ILE	C-N	5.99	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	358	ARG	C-N	5.99	1.42	1.33
4	E	319	PRO	C-N	5.99	1.41	1.33
4	M	455	ILE	C-O	-5.99	1.17	1.24
6	O	251	ASN	C-N	5.99	1.41	1.33
2	T	358	ARG	C-N	5.99	1.42	1.33
2	T	487	LYS	CA-C	-5.99	1.45	1.52
3	D	405	ILE	N-CA	-5.99	1.39	1.46
3	D	448	ALA	CA-C	-5.99	1.45	1.52
7	P	98	GLU	C-N	5.99	1.41	1.33
4	V	163	SER	C-N	5.99	1.42	1.33
4	V	228	ALA	CA-C	-5.99	1.45	1.52
3	D	178	ASN	C-N	5.99	1.40	1.33
6	O	744	GLU	N-CA	-5.98	1.38	1.45
2	C	132	THR	CA-C	-5.98	1.45	1.52
4	M	840	ILE	N-CA	-5.98	1.39	1.46
7	H	98	GLU	C-N	5.98	1.41	1.33
6	X	214	ASP	N-CA	-5.98	1.39	1.46
3	D	124	LYS	CA-C	-5.98	1.45	1.52
5	N	133	VAL	CA-C	-5.98	1.45	1.52
3	U	724	LYS	N-CA	-5.98	1.38	1.46
2	C	689	ILE	C-N	5.98	1.41	1.33
3	U	430	ALA	CA-C	-5.98	1.45	1.52
3	D	254	ARG	CA-C	-5.97	1.45	1.52
4	M	228	ALA	CA-C	-5.97	1.45	1.52
2	T	49	GLU	C-N	5.97	1.41	1.33
4	M	326	ASN	CA-C	-5.97	1.45	1.52
2	T	614	MET	C-N	5.97	1.41	1.33
4	V	326	ASN	CA-C	-5.97	1.45	1.52
4	E	278	PRO	N-CA	-5.97	1.39	1.47
2	K	358	ARG	C-N	5.97	1.42	1.33
4	M	163	SER	C-N	5.97	1.42	1.33
4	V	278	PRO	N-CA	-5.97	1.39	1.47
3	L	448	ALA	CA-C	-5.96	1.45	1.52
3	U	405	ILE	N-CA	-5.96	1.39	1.46
5	W	57	SER	CA-C	-5.96	1.45	1.52
2	C	281	ARG	C-N	5.96	1.40	1.33
6	G	251	ASN	C-N	5.96	1.41	1.33
7	Y	98	GLU	C-N	5.96	1.41	1.33
2	T	561	ILE	C-N	-5.96	1.25	1.33
3	U	448	ALA	CA-C	-5.96	1.45	1.52
3	D	308	MET	N-CA	-5.96	1.38	1.46
5	F	133	VAL	CA-C	-5.96	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	178	ASN	C-N	5.96	1.40	1.33
4	M	856	VAL	N-CA	-5.96	1.39	1.46
4	M	50	LYS	C-N	5.96	1.41	1.33
3	D	430	ALA	CA-C	-5.95	1.45	1.52
4	E	228	ALA	CA-C	-5.95	1.45	1.52
2	K	614	MET	C-N	5.95	1.41	1.33
2	K	701	ASP	CA-C	5.95	1.60	1.52
2	T	701	ASP	CA-C	5.95	1.60	1.52
3	U	178	ASN	C-N	5.95	1.40	1.33
6	G	857	GLN	CA-C	-5.95	1.45	1.52
3	L	397	ALA	CA-C	-5.95	1.44	1.52
6	O	374	GLU	CA-C	5.95	1.59	1.52
6	O	547	LEU	CA-C	-5.95	1.44	1.52
2	T	6	GLU	N-CA	-5.95	1.38	1.46
4	V	825	THR	CA-C	-5.94	1.45	1.52
2	C	701	ASP	CA-C	5.94	1.60	1.52
5	N	98	PHE	N-CA	-5.94	1.39	1.46
4	M	278	PRO	N-CA	-5.94	1.39	1.47
4	E	840	ILE	N-CA	-5.94	1.39	1.46
4	M	91	THR	C-N	5.94	1.41	1.33
4	V	119	ASN	N-CA	5.94	1.53	1.46
2	K	6	GLU	N-CA	-5.94	1.38	1.46
2	C	6	GLU	N-CA	-5.93	1.38	1.46
4	E	163	SER	C-N	5.93	1.42	1.33
6	G	744	GLU	N-CA	-5.93	1.38	1.45
5	W	133	VAL	CA-C	-5.93	1.45	1.52
3	D	440	GLY	CA-C	-5.93	1.48	1.52
3	L	254	ARG	CA-C	-5.93	1.45	1.52
3	L	405	ILE	N-CA	-5.93	1.39	1.46
5	F	69	TYR	CA-C	5.93	1.59	1.52
5	F	98	PHE	N-CA	-5.93	1.39	1.46
2	T	281	ARG	C-N	5.93	1.40	1.33
6	X	744	GLU	N-CA	-5.93	1.38	1.45
3	U	440	GLY	CA-C	-5.93	1.48	1.52
5	W	98	PHE	N-CA	-5.93	1.39	1.46
3	L	430	ALA	CA-C	-5.92	1.45	1.52
4	V	455	ILE	C-O	-5.92	1.17	1.24
2	C	561	ILE	C-N	-5.92	1.25	1.33
3	L	752	PRO	CA-C	-5.92	1.43	1.52
4	M	556	PRO	CA-C	5.92	1.60	1.52
2	T	663	GLU	CA-C	-5.92	1.45	1.52
4	V	50	LYS	C-N	5.92	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	735	ASN	N-CA	-5.92	1.39	1.46
4	E	455	ILE	C-O	-5.92	1.17	1.24
6	G	53	GLU	CA-C	-5.92	1.45	1.52
5	F	57	SER	CA-C	-5.92	1.45	1.52
3	D	168	LYS	N-CA	-5.91	1.38	1.46
3	U	439	LEU	CA-C	-5.91	1.45	1.52
4	E	825	THR	CA-C	-5.91	1.45	1.52
4	E	856	VAL	N-CA	-5.91	1.39	1.46
5	W	69	TYR	CA-C	5.91	1.59	1.52
2	K	281	ARG	C-N	5.90	1.40	1.33
3	U	168	LYS	N-CA	-5.90	1.38	1.46
3	D	262	ARG	N-CA	-5.90	1.38	1.46
6	G	547	LEU	CA-C	-5.90	1.44	1.52
6	O	53	GLU	CA-C	-5.90	1.45	1.52
2	T	109	LEU	CA-C	-5.89	1.45	1.52
6	X	53	GLU	CA-C	-5.89	1.45	1.52
6	X	857	GLN	CA-C	-5.89	1.45	1.52
4	E	500	ALA	N-CA	-5.89	1.39	1.46
4	E	665	CYS	C-N	5.89	1.42	1.33
4	M	665	CYS	C-N	5.89	1.42	1.33
6	X	547	LEU	CA-C	-5.89	1.44	1.52
5	N	57	SER	CA-C	-5.89	1.45	1.52
6	O	857	GLN	CA-C	-5.89	1.45	1.52
3	U	254	ARG	CA-C	-5.89	1.45	1.52
4	V	856	VAL	N-CA	-5.89	1.39	1.46
2	C	663	GLU	CA-C	-5.89	1.45	1.52
4	E	556	PRO	CA-C	5.89	1.60	1.52
2	K	561	ILE	C-N	-5.89	1.26	1.33
2	K	735	ASN	N-CA	-5.89	1.39	1.46
3	L	596	THR	C-O	-5.89	1.17	1.24
2	C	109	LEU	CA-C	-5.88	1.45	1.52
4	E	119	ASN	N-CA	5.88	1.53	1.46
2	K	389	SER	CA-C	-5.88	1.48	1.53
2	T	641	PHE	CA-C	-5.88	1.45	1.52
4	V	665	CYS	C-N	5.88	1.42	1.33
3	D	596	THR	C-O	-5.88	1.17	1.24
6	O	160	TYR	C-N	5.88	1.41	1.34
6	G	905	PHE	CA-C	-5.88	1.45	1.52
4	E	78	GLN	C-N	5.88	1.41	1.33
4	E	431	SER	C-O	-5.88	1.17	1.24
2	K	641	PHE	CA-C	-5.88	1.45	1.52
4	V	840	ILE	N-CA	-5.88	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	663	GLU	CA-C	-5.88	1.45	1.52
7	H	103	SER	C-N	5.87	1.42	1.34
3	U	752	PRO	CA-C	-5.87	1.43	1.52
6	X	910	LEU	CA-C	-5.87	1.45	1.52
3	L	168	LYS	N-CA	-5.87	1.38	1.46
5	N	120	GLY	CA-C	-5.87	1.45	1.52
2	C	641	PHE	CA-C	-5.87	1.45	1.52
2	K	109	LEU	CA-C	-5.87	1.45	1.52
3	L	108	HIS	CA-C	-5.87	1.45	1.52
4	M	213	LYS	C-N	5.87	1.41	1.33
6	X	199	HIS	CA-C	-5.87	1.45	1.52
3	U	108	HIS	CA-C	-5.87	1.45	1.52
4	V	500	ALA	N-CA	-5.87	1.39	1.46
4	M	57	GLN	N-CA	-5.86	1.38	1.46
3	U	596	THR	C-O	-5.86	1.17	1.24
2	T	735	ASN	N-CA	-5.86	1.39	1.46
4	E	50	LYS	C-N	5.86	1.41	1.33
6	G	199	HIS	CA-C	-5.86	1.45	1.52
5	N	24	ASP	C-N	5.86	1.41	1.33
4	V	78	GLN	C-N	5.86	1.41	1.33
3	D	145	VAL	CA-C	-5.86	1.47	1.53
3	D	630	PHE	CA-C	-5.86	1.45	1.52
3	L	439	LEU	CA-C	-5.86	1.45	1.52
6	G	160	TYR	C-N	5.86	1.41	1.34
6	X	905	PHE	CA-C	-5.86	1.45	1.52
3	D	108	HIS	CA-C	-5.85	1.45	1.52
3	L	145	VAL	CA-C	-5.85	1.47	1.53
6	X	501	LYS	C-N	-5.85	1.27	1.34
4	M	500	ALA	N-CA	-5.85	1.39	1.46
3	D	752	PRO	CA-C	-5.85	1.43	1.52
3	U	413	LYS	CA-C	-5.85	1.45	1.52
4	V	494	ALA	CA-C	-5.85	1.45	1.52
4	V	556	PRO	CA-C	5.85	1.60	1.52
4	M	242	GLU	N-CA	-5.84	1.39	1.46
5	N	69	TYR	CA-C	5.84	1.59	1.52
6	G	910	LEU	CA-C	-5.84	1.45	1.52
6	G	501	LYS	C-N	-5.84	1.27	1.34
3	L	635	LEU	C-N	5.84	1.41	1.33
4	M	119	ASN	N-CA	5.84	1.53	1.46
6	O	556	SER	CA-C	-5.84	1.45	1.52
3	U	262	ARG	N-CA	-5.84	1.39	1.46
2	C	70	GLY	CA-C	-5.84	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	389	SER	CA-C	-5.84	1.48	1.53
4	E	494	ALA	CA-C	-5.84	1.45	1.52
6	X	556	SER	CA-C	-5.84	1.45	1.52
4	M	61	LEU	C-N	5.83	1.37	1.33
6	X	160	TYR	C-N	5.83	1.41	1.34
4	E	61	LEU	C-N	5.83	1.37	1.33
5	F	120	GLY	CA-C	-5.83	1.45	1.52
6	O	905	PHE	CA-C	-5.83	1.45	1.52
2	T	267	ASN	CA-C	-5.83	1.45	1.52
3	U	630	PHE	CA-C	-5.83	1.45	1.52
2	C	80	TYR	C-N	5.83	1.42	1.33
2	C	507	ALA	CA-C	5.83	1.60	1.52
3	D	600	ARG	N-CA	-5.83	1.38	1.46
2	K	70	GLY	CA-C	-5.83	1.46	1.52
3	L	262	ARG	N-CA	-5.83	1.39	1.46
3	U	600	ARG	N-CA	-5.82	1.38	1.46
5	W	120	GLY	CA-C	-5.82	1.45	1.52
3	D	439	LEU	CA-C	-5.82	1.45	1.52
2	C	333	LEU	CA-C	-5.82	1.45	1.52
2	C	389	SER	CA-C	-5.82	1.48	1.53
6	G	218	THR	CA-C	5.82	1.60	1.52
2	T	80	TYR	C-N	5.82	1.42	1.33
2	C	603	LEU	C-N	5.82	1.41	1.33
4	E	213	LYS	C-N	5.82	1.41	1.33
4	M	494	ALA	CA-C	-5.82	1.45	1.52
5	F	24	ASP	C-N	5.81	1.41	1.33
3	L	371	GLY	CA-C	-5.81	1.43	1.51
4	E	242	GLU	N-CA	-5.81	1.39	1.46
4	V	242	GLU	N-CA	-5.81	1.39	1.46
6	X	864	TRP	CA-C	-5.81	1.44	1.52
2	C	396	ILE	CA-C	-5.80	1.47	1.52
6	O	140	ILE	CA-C	5.80	1.58	1.52
4	V	213	LYS	C-N	5.80	1.41	1.33
6	X	537	GLU	C-N	5.80	1.37	1.33
2	K	80	TYR	C-N	5.80	1.42	1.33
3	L	55	VAL	N-CA	-5.80	1.39	1.46
3	L	413	LYS	CA-C	-5.80	1.46	1.52
2	C	647	THR	CA-C	-5.80	1.45	1.52
3	L	297	VAL	C-N	5.80	1.41	1.33
3	U	145	VAL	CA-C	-5.80	1.47	1.53
3	D	371	GLY	CA-C	-5.80	1.43	1.51
3	D	413	LYS	CA-C	-5.80	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	267	ASN	CA-C	-5.80	1.45	1.52
6	O	936	ALA	CA-C	-5.80	1.46	1.53
7	Y	103	SER	C-N	5.80	1.42	1.34
3	L	600	ARG	N-CA	-5.80	1.38	1.46
4	M	431	SER	C-O	-5.80	1.17	1.24
4	V	431	SER	C-O	-5.80	1.17	1.24
7	P	103	SER	C-N	5.80	1.42	1.34
6	G	537	GLU	C-N	5.79	1.37	1.33
2	T	333	LEU	CA-C	-5.79	1.45	1.52
5	W	24	ASP	C-N	5.79	1.41	1.33
4	M	78	GLN	C-N	5.79	1.41	1.33
6	O	199	HIS	CA-C	-5.79	1.45	1.52
4	V	618	ALA	CA-C	-5.79	1.44	1.52
6	O	910	LEU	CA-C	-5.79	1.46	1.52
2	T	496	TRP	CA-C	-5.79	1.45	1.52
6	G	864	TRP	CA-C	-5.78	1.44	1.52
3	U	297	VAL	C-N	5.78	1.41	1.33
6	X	140	ILE	CA-C	5.78	1.58	1.52
6	X	333	ASP	C-N	5.78	1.41	1.33
2	K	333	LEU	CA-C	-5.78	1.45	1.52
2	C	496	TRP	CA-C	-5.78	1.45	1.52
2	K	596	GLU	N-CA	-5.78	1.39	1.46
6	O	477	THR	C-N	5.78	1.41	1.33
3	U	371	GLY	CA-C	-5.78	1.43	1.51
3	D	635	LEU	C-N	5.78	1.41	1.33
3	L	630	PHE	CA-C	-5.78	1.45	1.52
4	E	57	GLN	N-CA	-5.78	1.39	1.46
3	D	297	VAL	C-N	5.77	1.41	1.33
6	X	218	THR	CA-C	5.77	1.60	1.52
4	V	411	PHE	N-CA	-5.77	1.39	1.46
4	M	610	GLN	CA-C	-5.77	1.45	1.52
3	U	55	VAL	N-CA	-5.77	1.39	1.46
6	O	537	GLU	C-N	5.77	1.37	1.33
5	F	26	LEU	C-N	5.77	1.41	1.33
3	D	55	VAL	N-CA	-5.76	1.39	1.46
4	M	411	PHE	N-CA	-5.76	1.39	1.46
4	E	618	ALA	CA-C	-5.76	1.44	1.52
2	K	496	TRP	CA-C	-5.76	1.45	1.52
6	G	132	LEU	CA-C	-5.76	1.45	1.52
2	K	64	PRO	C-N	5.76	1.40	1.33
2	T	647	THR	CA-C	-5.76	1.45	1.52
3	D	737	LYS	N-CA	-5.76	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	O	218	THR	CA-C	5.76	1.60	1.52
4	E	610	GLN	CA-C	-5.75	1.45	1.52
2	C	215	PRO	CA-C	-5.75	1.44	1.52
3	L	362	PRO	N-CA	-5.75	1.40	1.47
2	K	401	ASP	CA-C	-5.75	1.45	1.52
4	M	618	ALA	CA-C	-5.75	1.44	1.52
3	U	635	LEU	C-N	5.75	1.41	1.33
4	E	411	PHE	N-CA	-5.75	1.39	1.46
5	N	26	LEU	C-N	5.75	1.41	1.33
3	U	448	ALA	N-CA	-5.75	1.39	1.46
6	O	501	LYS	C-N	-5.75	1.27	1.34
3	U	362	PRO	N-CA	-5.75	1.40	1.47
2	K	647	THR	CA-C	-5.74	1.45	1.52
6	O	324	ASP	C-N	5.74	1.41	1.33
4	E	821	GLU	CA-C	-5.74	1.45	1.52
3	L	139	GLU	C-O	-5.74	1.17	1.24
4	V	61	LEU	C-N	5.74	1.37	1.33
2	K	603	LEU	C-N	5.74	1.41	1.33
2	T	215	PRO	CA-C	-5.74	1.44	1.52
3	D	362	PRO	N-CA	-5.74	1.40	1.47
2	K	215	PRO	CA-C	-5.74	1.44	1.52
6	O	324	ASP	N-CA	-5.74	1.39	1.46
6	X	132	LEU	CA-C	-5.74	1.45	1.52
2	K	396	ILE	CA-C	-5.74	1.47	1.52
2	T	603	LEU	C-N	5.74	1.41	1.33
7	H	95	ARG	CA-C	-5.73	1.48	1.53
3	L	136	GLN	N-CA	-5.73	1.38	1.45
6	G	324	ASP	C-N	5.73	1.41	1.33
5	W	26	LEU	C-N	5.73	1.41	1.33
6	X	477	THR	C-N	5.73	1.41	1.33
4	M	765	GLN	N-CA	-5.73	1.39	1.46
3	D	595	GLN	N-CA	-5.73	1.39	1.46
2	T	596	GLU	N-CA	-5.73	1.39	1.46
3	L	448	ALA	N-CA	-5.73	1.39	1.46
6	O	369	ASN	CA-C	-5.73	1.45	1.52
3	D	136	GLN	N-CA	-5.72	1.38	1.45
3	D	294	SER	CA-C	-5.72	1.45	1.52
6	G	477	THR	C-N	5.72	1.41	1.33
6	O	132	LEU	CA-C	-5.72	1.45	1.52
2	T	507	ALA	CA-C	5.72	1.60	1.52
2	C	614	MET	CA-C	-5.72	1.45	1.52
4	M	691	SER	CA-C	-5.72	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	294	SER	CA-C	-5.72	1.45	1.52
3	U	595	GLN	N-CA	-5.72	1.39	1.46
7	Y	95	ARG	CA-C	-5.72	1.48	1.53
2	C	267	ASN	CA-C	-5.72	1.45	1.52
4	E	765	GLN	N-CA	-5.72	1.39	1.46
6	O	540	PRO	C-O	-5.72	1.18	1.24
6	O	864	TRP	CA-C	-5.72	1.44	1.52
6	G	333	ASP	C-N	5.72	1.41	1.33
6	G	324	ASP	N-CA	-5.71	1.39	1.46
7	P	95	ARG	CA-C	-5.71	1.48	1.53
2	T	396	ILE	CA-C	-5.71	1.47	1.52
3	U	737	LYS	N-CA	-5.71	1.39	1.45
4	V	471	LYS	CA-C	-5.71	1.45	1.52
3	U	225	LEU	CA-C	-5.71	1.46	1.52
6	G	140	ILE	CA-C	5.71	1.58	1.52
4	V	57	GLN	N-CA	-5.71	1.39	1.46
4	E	691	SER	CA-C	-5.71	1.45	1.52
6	G	369	ASN	CA-C	-5.71	1.45	1.52
2	T	64	PRO	C-N	5.71	1.40	1.33
2	C	23	TRP	C-N	5.71	1.41	1.33
2	C	64	PRO	C-N	5.71	1.40	1.33
3	D	225	LEU	CA-C	-5.71	1.46	1.52
2	K	507	ALA	CA-C	5.71	1.60	1.52
4	V	765	GLN	N-CA	-5.71	1.39	1.46
6	X	369	ASN	CA-C	-5.71	1.45	1.52
6	X	936	ALA	CA-C	-5.71	1.46	1.53
2	T	70	GLY	CA-C	-5.70	1.46	1.52
2	T	614	MET	CA-C	-5.70	1.45	1.52
4	V	691	SER	CA-C	-5.70	1.45	1.52
2	T	64	PRO	CA-C	-5.70	1.44	1.52
4	M	471	LYS	CA-C	-5.70	1.45	1.52
6	X	324	ASP	N-CA	-5.70	1.39	1.46
4	V	821	GLU	CA-C	-5.70	1.45	1.52
2	C	401	ASP	CA-C	-5.70	1.45	1.52
4	M	482	LEU	CA-C	-5.70	1.45	1.52
4	M	725	SER	C-N	5.70	1.41	1.33
6	O	333	ASP	C-N	5.70	1.41	1.33
4	V	610	GLN	CA-C	-5.69	1.45	1.52
4	M	744	GLU	C-N	5.69	1.41	1.33
4	V	482	LEU	CA-C	-5.69	1.45	1.52
6	G	556	SER	CA-C	-5.69	1.45	1.52
3	U	136	GLN	N-CA	-5.69	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	286	VAL	C-O	-5.69	1.18	1.23
6	X	540	PRO	C-O	-5.69	1.18	1.24
6	G	540	PRO	C-O	-5.69	1.18	1.24
2	T	672	ASN	C-O	-5.69	1.17	1.24
4	V	725	SER	C-N	5.68	1.41	1.33
2	K	614	MET	CA-C	-5.68	1.45	1.52
3	U	203	ILE	N-CA	-5.68	1.39	1.46
2	C	192	THR	C-N	5.68	1.41	1.33
3	D	312	GLY	C-N	5.68	1.41	1.33
2	K	192	THR	C-N	5.68	1.41	1.33
2	K	315	ILE	C-N	5.68	1.40	1.33
6	X	324	ASP	C-N	5.68	1.41	1.33
3	D	139	GLU	C-O	-5.68	1.17	1.24
3	U	139	GLU	C-O	-5.68	1.17	1.24
3	D	203	ILE	N-CA	-5.67	1.39	1.46
3	L	84	PHE	N-CA	-5.67	1.38	1.45
4	M	821	GLU	CA-C	-5.67	1.45	1.52
3	U	312	GLY	C-N	5.67	1.41	1.33
4	E	471	LYS	CA-C	-5.67	1.45	1.52
4	E	744	GLU	C-N	5.67	1.41	1.33
3	L	737	LYS	N-CA	-5.67	1.39	1.45
4	E	482	LEU	CA-C	-5.67	1.45	1.52
6	G	936	ALA	CA-C	-5.67	1.46	1.53
2	K	672	ASN	C-O	-5.67	1.17	1.24
5	N	74	ASP	N-CA	-5.67	1.40	1.46
4	E	725	SER	C-N	5.67	1.41	1.33
3	U	744	LEU	CA-C	-5.67	1.45	1.52
2	C	672	ASN	C-O	-5.66	1.17	1.24
2	C	88	THR	CA-C	-5.66	1.45	1.52
3	D	448	ALA	N-CA	-5.66	1.39	1.46
3	L	203	ILE	N-CA	-5.66	1.39	1.46
7	P	56	TYR	N-CA	-5.66	1.39	1.46
3	U	84	PHE	N-CA	-5.66	1.38	1.45
4	V	744	GLU	C-N	5.66	1.41	1.33
3	D	677	ALA	C-O	-5.66	1.17	1.24
4	E	672	GLN	CA-C	-5.66	1.46	1.52
3	L	101	TYR	N-CA	-5.66	1.38	1.45
3	L	294	SER	CA-C	-5.66	1.45	1.52
2	T	23	TRP	C-N	5.66	1.41	1.33
3	U	101	TYR	N-CA	-5.66	1.38	1.45
4	M	96	SER	C-N	5.66	1.42	1.33
2	T	192	THR	C-N	5.66	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	101	TYR	N-CA	-5.65	1.38	1.45
4	V	491	ALA	CA-C	-5.65	1.45	1.52
4	M	491	ALA	CA-C	-5.65	1.45	1.52
3	L	595	GLN	N-CA	-5.65	1.39	1.46
3	D	547	VAL	N-CA	-5.65	1.39	1.46
2	K	64	PRO	CA-C	-5.65	1.44	1.52
6	O	838	HIS	C-N	5.65	1.41	1.33
2	T	401	ASP	CA-C	-5.65	1.45	1.52
2	C	64	PRO	CA-C	-5.64	1.44	1.52
3	D	84	PHE	N-CA	-5.64	1.38	1.45
4	E	96	SER	C-N	5.64	1.42	1.33
4	V	537	GLN	CA-C	-5.64	1.45	1.52
2	C	315	ILE	C-N	5.64	1.40	1.33
4	E	491	ALA	CA-C	-5.64	1.45	1.52
2	T	88	THR	CA-C	-5.64	1.45	1.52
3	U	286	VAL	C-O	-5.64	1.18	1.23
5	N	36	PRO	C-N	5.64	1.41	1.33
2	C	596	GLU	N-CA	-5.64	1.39	1.46
6	O	73	THR	N-CA	5.64	1.53	1.46
3	U	677	ALA	C-O	-5.64	1.17	1.24
6	X	399	ALA	N-CA	-5.64	1.39	1.46
5	F	36	PRO	C-N	5.64	1.41	1.33
6	G	245	PHE	C-N	5.64	1.40	1.33
3	L	312	GLY	C-N	5.64	1.41	1.33
3	U	160	SER	CA-C	-5.64	1.45	1.52
6	X	838	HIS	C-N	5.64	1.41	1.33
2	K	88	THR	CA-C	-5.63	1.45	1.52
3	L	677	ALA	C-O	-5.63	1.17	1.24
6	G	838	HIS	C-N	5.63	1.41	1.33
6	G	843	ASP	CA-C	-5.63	1.45	1.52
6	X	839	ILE	CA-C	-5.63	1.45	1.52
2	C	445	THR	N-CA	-5.63	1.39	1.46
2	K	230	LYS	N-CA	-5.63	1.39	1.46
3	D	756	PHE	N-CA	-5.63	1.39	1.46
6	X	843	ASP	CA-C	-5.63	1.45	1.52
2	K	445	THR	N-CA	-5.63	1.39	1.46
3	L	744	LEU	CA-C	-5.63	1.45	1.52
3	D	594	TYR	CA-C	-5.62	1.45	1.52
3	L	225	LEU	CA-C	-5.62	1.46	1.52
2	T	230	LYS	N-CA	-5.62	1.39	1.46
7	Y	56	TYR	N-CA	-5.62	1.39	1.46
6	O	843	ASP	CA-C	-5.62	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	255	ILE	C-N	5.62	1.41	1.33
7	H	56	TYR	N-CA	-5.62	1.39	1.46
4	M	672	GLN	CA-C	-5.62	1.46	1.52
3	D	466	LYS	CA-C	-5.62	1.45	1.52
2	K	40	MET	N-CA	5.62	1.53	1.46
3	L	160	SER	CA-C	-5.62	1.45	1.52
3	L	466	LYS	CA-C	-5.62	1.45	1.52
6	O	839	ILE	CA-C	-5.62	1.45	1.52
6	G	849	THR	N-CA	-5.61	1.38	1.45
2	K	23	TRP	C-N	5.61	1.41	1.33
3	U	756	PHE	N-CA	-5.61	1.39	1.46
4	V	96	SER	C-N	5.61	1.42	1.33
4	V	672	GLN	CA-C	-5.61	1.46	1.52
3	D	286	VAL	C-O	-5.61	1.18	1.23
2	T	781	GLU	CA-C	-5.61	1.45	1.52
3	D	160	SER	CA-C	-5.61	1.45	1.52
2	K	781	GLU	CA-C	-5.61	1.45	1.52
3	L	547	VAL	N-CA	-5.61	1.39	1.46
3	U	9	ARG	CA-C	-5.61	1.46	1.53
6	G	399	ALA	N-CA	-5.61	1.39	1.46
3	D	233	SER	CA-C	-5.61	1.45	1.52
5	F	74	ASP	N-CA	-5.60	1.40	1.46
3	U	164	ASP	C-O	-5.60	1.16	1.24
6	O	849	THR	N-CA	-5.60	1.38	1.45
2	T	315	ILE	C-N	5.60	1.40	1.33
5	W	36	PRO	C-N	5.60	1.41	1.33
4	M	255	ILE	C-N	5.60	1.41	1.33
6	G	839	ILE	CA-C	-5.59	1.45	1.52
2	T	40	MET	N-CA	5.59	1.53	1.46
2	C	251	ASN	C-O	-5.59	1.17	1.24
4	E	717	PRO	CA-C	-5.59	1.44	1.52
6	G	418	ALA	CA-C	-5.59	1.45	1.52
6	O	399	ALA	N-CA	-5.59	1.39	1.46
2	C	40	MET	N-CA	5.59	1.53	1.46
3	L	594	TYR	CA-C	-5.59	1.45	1.52
4	V	717	PRO	CA-C	-5.59	1.44	1.52
6	X	73	THR	N-CA	5.59	1.53	1.46
3	D	428	PHE	CA-C	-5.58	1.46	1.53
3	U	547	VAL	N-CA	-5.58	1.39	1.46
3	D	95	PHE	CA-C	-5.58	1.45	1.52
4	M	537	GLN	CA-C	-5.58	1.45	1.52
4	M	830	LEU	CA-C	-5.58	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	85	ASN	C-N	5.58	1.41	1.33
3	U	379	THR	C-N	5.58	1.41	1.33
2	C	600	LYS	C-N	5.58	1.41	1.33
6	O	281	ALA	C-N	5.58	1.41	1.33
3	U	428	PHE	CA-C	-5.58	1.46	1.53
6	G	149	SER	C-N	5.57	1.41	1.33
6	G	282	ALA	N-CA	-5.57	1.39	1.46
6	X	282	ALA	N-CA	-5.57	1.39	1.46
2	C	781	GLU	CA-C	-5.57	1.45	1.52
4	E	217	LYS	CA-C	-5.57	1.45	1.52
4	E	255	ILE	C-N	5.57	1.41	1.33
3	D	9	ARG	CA-C	-5.57	1.46	1.53
6	O	418	ALA	CA-C	-5.57	1.45	1.52
3	D	632	GLN	CA-C	-5.57	1.45	1.52
2	T	251	ASN	C-O	-5.57	1.17	1.24
6	X	149	SER	C-N	5.57	1.41	1.33
5	F	30	TYR	CA-C	-5.57	1.45	1.52
3	L	428	PHE	CA-C	-5.57	1.46	1.53
6	O	245	PHE	C-N	5.57	1.40	1.33
6	X	281	ALA	C-N	5.57	1.41	1.33
6	X	849	THR	N-CA	-5.57	1.38	1.45
2	C	86	LEU	C-N	5.57	1.40	1.33
6	G	281	ALA	C-N	5.56	1.41	1.33
3	L	424	PHE	N-CA	-5.56	1.39	1.46
4	M	855	GLN	CA-C	-5.56	1.46	1.52
4	E	537	GLN	CA-C	-5.56	1.45	1.52
5	N	30	TYR	CA-C	-5.56	1.45	1.52
5	N	126	ASP	N-CA	5.56	1.53	1.46
2	T	445	THR	N-CA	-5.56	1.39	1.46
5	W	30	TYR	CA-C	-5.56	1.45	1.52
6	O	282	ALA	N-CA	-5.56	1.39	1.46
2	C	230	LYS	N-CA	-5.56	1.39	1.46
4	E	761	ALA	CA-C	-5.56	1.45	1.52
3	L	437	PHE	N-CA	5.55	1.52	1.46
2	T	600	LYS	C-N	5.55	1.41	1.33
3	U	466	LYS	CA-C	-5.55	1.45	1.52
6	X	418	ALA	CA-C	-5.55	1.45	1.52
3	D	164	ASP	C-O	-5.55	1.16	1.24
4	M	717	PRO	CA-C	-5.55	1.44	1.52
4	M	761	ALA	CA-C	-5.55	1.45	1.52
2	C	474	LEU	CA-C	-5.55	1.45	1.52
3	L	164	ASP	C-O	-5.55	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	217	LYS	CA-C	-5.55	1.45	1.52
4	V	761	ALA	CA-C	-5.55	1.45	1.52
2	C	735	ASN	CA-C	-5.55	1.45	1.52
4	M	432	LYS	CA-C	-5.55	1.45	1.52
4	E	437	SER	C-N	5.55	1.41	1.33
6	G	73	THR	N-CA	5.55	1.52	1.46
6	G	314	HIS	C-N	5.55	1.41	1.33
3	U	594	TYR	CA-C	-5.55	1.45	1.52
4	E	553	VAL	C-N	5.54	1.40	1.33
5	N	88	LEU	CA-C	-5.54	1.45	1.52
6	O	80	VAL	CA-C	-5.54	1.45	1.52
2	T	86	LEU	C-N	5.54	1.40	1.33
3	U	424	PHE	N-CA	-5.54	1.39	1.46
3	D	744	LEU	CA-C	-5.54	1.45	1.52
4	M	199	LEU	CA-C	-5.54	1.45	1.52
3	L	756	PHE	N-CA	-5.54	1.39	1.46
2	T	670	ASP	N-CA	-5.54	1.39	1.46
3	U	437	PHE	N-CA	5.54	1.52	1.46
4	V	432	LYS	CA-C	-5.54	1.45	1.52
6	X	245	PHE	C-N	5.54	1.40	1.33
3	D	379	THR	C-N	5.54	1.41	1.33
4	V	199	LEU	CA-C	-5.54	1.45	1.52
6	G	80	VAL	CA-C	-5.54	1.45	1.52
3	L	95	PHE	CA-C	-5.54	1.45	1.52
4	V	829	LEU	C-N	5.54	1.42	1.33
2	C	529	ARG	CA-C	-5.53	1.45	1.52
2	K	735	ASN	CA-C	-5.53	1.45	1.52
2	K	592	ILE	CA-C	-5.53	1.46	1.52
4	V	217	LYS	CA-C	-5.53	1.45	1.52
5	F	88	LEU	CA-C	-5.53	1.45	1.52
3	D	85	ASN	C-N	5.53	1.41	1.33
3	D	424	PHE	N-CA	-5.53	1.39	1.46
4	E	432	LYS	CA-C	-5.53	1.45	1.52
5	W	74	ASP	N-CA	-5.53	1.40	1.46
2	T	592	ILE	CA-C	-5.53	1.46	1.52
4	E	546	TYR	N-CA	-5.53	1.39	1.46
3	L	379	THR	C-N	5.53	1.41	1.33
4	V	649	ARG	CA-C	-5.53	1.46	1.52
2	C	318	LYS	N-CA	-5.52	1.39	1.46
6	X	162	ILE	C-N	5.52	1.41	1.33
2	K	111	ALA	CA-C	-5.52	1.46	1.52
3	L	632	GLN	CA-C	-5.52	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	855	GLN	CA-C	-5.52	1.46	1.52
6	G	277	ALA	N-CA	-5.52	1.39	1.46
4	V	830	LEU	CA-C	-5.52	1.46	1.52
4	E	199	LEU	CA-C	-5.52	1.45	1.52
2	T	474	LEU	CA-C	-5.51	1.45	1.52
6	O	423	PHE	C-N	5.51	1.40	1.33
2	T	735	ASN	CA-C	-5.51	1.45	1.52
3	U	233	SER	CA-C	-5.51	1.45	1.52
2	K	474	LEU	CA-C	-5.51	1.45	1.52
2	K	529	ARG	CA-C	-5.51	1.45	1.52
4	M	649	ARG	CA-C	-5.51	1.46	1.52
5	N	111	LYS	N-CA	-5.51	1.39	1.46
2	T	514	CYS	CA-C	-5.51	1.45	1.52
4	V	855	GLN	CA-C	-5.51	1.46	1.52
3	D	437	PHE	N-CA	5.51	1.52	1.46
4	M	553	VAL	C-N	5.51	1.40	1.33
2	T	529	ARG	CA-C	-5.51	1.45	1.52
3	L	233	SER	CA-C	-5.51	1.45	1.52
4	M	546	TYR	N-CA	-5.51	1.39	1.46
2	C	111	ALA	CA-C	-5.50	1.46	1.52
5	F	126	ASP	N-CA	5.50	1.53	1.46
2	K	600	LYS	C-N	5.50	1.41	1.33
6	O	162	ILE	C-N	5.50	1.41	1.33
6	G	162	ILE	C-N	5.50	1.41	1.33
2	K	251	ASN	C-O	-5.50	1.17	1.24
3	D	357	THR	C-N	5.50	1.40	1.33
6	O	947	LYS	C-N	5.50	1.42	1.34
3	U	200	PRO	CA-C	-5.50	1.44	1.52
6	X	314	HIS	C-N	5.50	1.41	1.33
4	E	830	LEU	CA-C	-5.50	1.46	1.52
3	L	9	ARG	CA-C	-5.50	1.46	1.53
4	E	277	LEU	N-CA	-5.50	1.41	1.46
4	M	829	LEU	C-N	5.50	1.41	1.33
3	U	95	PHE	CA-C	-5.50	1.45	1.52
3	D	83	VAL	CA-C	-5.49	1.46	1.52
4	E	83	THR	C-N	5.49	1.41	1.33
2	K	86	LEU	C-N	5.49	1.40	1.33
3	L	85	ASN	C-N	5.49	1.41	1.33
7	P	87	SER	C-N	5.49	1.41	1.33
4	V	437	SER	C-N	5.49	1.41	1.33
2	K	35	LEU	CA-C	-5.49	1.46	1.52
3	U	675	GLU	CA-C	-5.49	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	556	SER	C-N	5.49	1.41	1.33
4	M	437	SER	C-N	5.49	1.41	1.33
3	D	675	GLU	CA-C	-5.48	1.45	1.52
2	K	441	LYS	CA-C	-5.48	1.45	1.52
4	M	669	LEU	N-CA	-5.48	1.39	1.46
4	M	733	LYS	CA-C	-5.48	1.45	1.52
2	T	441	LYS	CA-C	-5.48	1.45	1.52
3	U	357	THR	C-N	5.48	1.40	1.33
3	U	632	GLN	CA-C	-5.48	1.45	1.52
4	E	276	ASN	CA-C	5.48	1.59	1.52
4	E	829	LEU	C-N	5.48	1.41	1.33
3	L	253	VAL	CA-C	-5.48	1.46	1.52
3	L	675	GLU	CA-C	-5.48	1.45	1.52
4	M	276	ASN	CA-C	5.48	1.59	1.52
4	M	810	MET	CA-C	-5.48	1.45	1.52
4	V	553	VAL	C-N	5.48	1.40	1.33
5	W	126	ASP	N-CA	5.48	1.53	1.46
6	X	914	SER	C-N	5.48	1.38	1.33
3	U	253	VAL	CA-C	-5.48	1.46	1.52
3	D	253	VAL	CA-C	-5.48	1.46	1.52
2	T	318	LYS	N-CA	-5.48	1.39	1.46
2	C	177	VAL	CA-C	-5.47	1.44	1.52
4	E	733	LYS	CA-C	-5.47	1.45	1.52
4	E	810	MET	CA-C	-5.47	1.45	1.52
6	G	423	PHE	C-N	5.47	1.40	1.33
6	O	277	ALA	N-CA	-5.47	1.39	1.46
2	C	592	ILE	CA-C	-5.47	1.46	1.52
2	C	670	ASP	N-CA	-5.47	1.39	1.46
2	T	177	VAL	CA-C	-5.47	1.44	1.52
3	L	83	VAL	CA-C	-5.47	1.46	1.52
3	L	470	TRP	CA-C	-5.47	1.46	1.52
6	O	556	SER	C-N	5.47	1.41	1.33
5	W	88	LEU	CA-C	-5.47	1.45	1.52
4	M	277	LEU	N-CA	-5.47	1.41	1.46
6	X	80	VAL	CA-C	-5.47	1.45	1.52
3	D	200	PRO	CA-C	-5.47	1.44	1.52
4	E	669	LEU	N-CA	-5.47	1.39	1.46
4	V	276	ASN	CA-C	5.47	1.59	1.52
4	E	758	VAL	N-CA	-5.46	1.40	1.46
2	K	177	VAL	CA-C	-5.46	1.44	1.52
2	C	480	LYS	C-N	5.46	1.40	1.33
3	L	97	ALA	N-CA	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	35	LEU	CA-C	-5.46	1.46	1.52
3	D	567	ILE	N-CA	-5.46	1.42	1.46
4	M	83	THR	C-N	5.46	1.41	1.33
4	V	810	MET	CA-C	-5.46	1.45	1.52
5	W	111	LYS	N-CA	-5.46	1.39	1.46
6	X	556	SER	C-N	5.46	1.41	1.33
3	L	4	ARG	N-CA	-5.45	1.39	1.46
2	T	111	ALA	CA-C	-5.45	1.46	1.52
2	K	514	CYS	CA-C	-5.45	1.46	1.52
4	V	83	THR	C-N	5.45	1.41	1.33
2	K	670	ASP	N-CA	-5.45	1.39	1.46
3	L	459	ARG	CA-C	-5.45	1.45	1.52
6	O	314	HIS	C-N	5.45	1.41	1.33
6	X	277	ALA	N-CA	-5.45	1.39	1.46
7	Y	87	SER	C-N	5.45	1.41	1.33
2	C	164	ILE	CA-C	-5.45	1.47	1.52
2	C	441	LYS	CA-C	-5.45	1.45	1.52
5	F	111	LYS	N-CA	-5.45	1.39	1.46
6	G	856	ARG	CA-C	5.45	1.59	1.52
3	L	200	PRO	CA-C	-5.45	1.44	1.52
6	X	856	ARG	CA-C	5.45	1.59	1.52
3	U	83	VAL	CA-C	-5.45	1.46	1.52
4	E	801	VAL	C-N	5.45	1.41	1.33
2	K	318	LYS	N-CA	-5.45	1.39	1.46
5	N	65	LEU	CA-C	5.45	1.59	1.52
4	V	546	TYR	N-CA	-5.44	1.40	1.46
6	G	947	LYS	C-N	5.44	1.42	1.34
4	M	78	GLN	N-CA	-5.44	1.39	1.46
2	C	416	LEU	CA-C	-5.44	1.46	1.52
3	D	375	TYR	CA-C	-5.44	1.46	1.52
4	E	649	ARG	CA-C	-5.44	1.46	1.52
4	M	271	ALA	CA-C	5.44	1.59	1.52
3	U	302	GLU	CA-C	-5.44	1.45	1.52
4	V	733	LYS	CA-C	-5.44	1.45	1.52
2	C	35	LEU	CA-C	-5.44	1.46	1.52
6	G	41	ALA	CA-C	-5.44	1.46	1.52
4	V	750	GLU	CA-C	-5.44	1.46	1.52
2	C	604	ILE	C-N	5.44	1.40	1.33
2	K	164	ILE	CA-C	-5.44	1.47	1.52
2	T	164	ILE	CA-C	-5.44	1.47	1.52
4	V	669	LEU	N-CA	-5.44	1.39	1.46
2	C	344	LEU	C-N	5.43	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	M	375	PHE	CA-C	-5.43	1.45	1.52
6	X	947	LYS	C-N	5.43	1.42	1.34
2	T	344	LEU	C-N	5.43	1.41	1.33
2	T	367	ASN	N-CA	-5.43	1.39	1.45
6	X	423	PHE	C-N	5.43	1.40	1.33
6	O	856	ARG	CA-C	5.43	1.59	1.52
6	G	949	GLN	CA-C	-5.43	1.46	1.53
2	K	344	LEU	C-N	5.43	1.41	1.33
6	O	41	ALA	CA-C	-5.43	1.46	1.52
3	U	329	ALA	CA-C	-5.43	1.45	1.52
4	V	271	ALA	CA-C	5.43	1.59	1.52
4	V	277	LEU	N-CA	-5.43	1.41	1.46
3	L	357	THR	C-N	5.43	1.40	1.33
3	U	459	ARG	CA-C	-5.43	1.46	1.52
6	X	41	ALA	CA-C	-5.43	1.46	1.52
3	D	605	MET	N-CA	-5.42	1.39	1.46
3	L	307	SER	CA-C	-5.42	1.45	1.52
3	L	120	ASP	C-N	5.42	1.41	1.33
3	U	605	MET	N-CA	-5.42	1.39	1.46
2	C	465	LEU	CA-C	-5.42	1.45	1.52
2	C	514	CYS	CA-C	-5.42	1.46	1.52
3	D	576	GLY	N-CA	5.42	1.53	1.45
4	V	758	VAL	N-CA	-5.42	1.40	1.46
6	X	243	ALA	C-N	5.42	1.41	1.33
2	C	761	SER	N-CA	-5.41	1.39	1.46
3	D	470	TRP	CA-C	-5.41	1.46	1.52
4	E	78	GLN	N-CA	-5.41	1.39	1.46
6	G	243	ALA	C-N	5.41	1.41	1.33
2	K	41	CYS	CA-C	-5.41	1.45	1.52
4	M	193	GLN	N-CA	-5.41	1.39	1.46
2	T	604	ILE	C-N	5.41	1.40	1.33
6	X	368	ASN	CA-C	-5.41	1.46	1.53
5	F	127	GLU	C-N	5.41	1.40	1.33
5	W	127	GLU	C-N	5.41	1.40	1.33
3	D	120	ASP	C-N	5.41	1.41	1.33
7	H	87	SER	C-N	5.41	1.41	1.33
4	M	758	VAL	N-CA	-5.41	1.40	1.46
6	O	949	GLN	CA-C	-5.41	1.46	1.53
3	L	605	MET	N-CA	-5.41	1.39	1.46
2	T	480	LYS	C-N	5.41	1.40	1.33
3	D	97	ALA	N-CA	-5.41	1.39	1.46
6	G	97	GLU	N-CA	-5.41	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	97	ALA	N-CA	-5.41	1.39	1.46
3	U	120	ASP	C-N	5.41	1.41	1.33
4	V	764	ILE	CA-C	-5.41	1.46	1.52
4	E	271	ALA	CA-C	5.40	1.59	1.52
6	G	842	MET	C-N	5.40	1.41	1.33
2	K	634	TYR	N-CA	-5.40	1.40	1.46
3	L	567	ILE	N-CA	-5.40	1.42	1.46
5	N	142	VAL	CA-C	-5.40	1.46	1.52
2	T	41	CYS	CA-C	-5.40	1.45	1.52
6	X	949	GLN	CA-C	-5.40	1.46	1.53
3	L	329	ALA	CA-C	-5.40	1.45	1.52
7	P	57	VAL	CA-C	-5.40	1.46	1.52
4	V	193	GLN	N-CA	-5.40	1.39	1.46
7	Y	57	VAL	CA-C	-5.40	1.46	1.52
2	K	245	CYS	N-CA	-5.40	1.39	1.46
6	O	97	GLU	N-CA	-5.40	1.39	1.46
2	K	480	LYS	C-N	5.40	1.40	1.33
3	U	576	GLY	N-CA	5.40	1.53	1.45
4	M	416	ALA	CA-C	-5.40	1.45	1.52
4	E	193	GLN	N-CA	-5.39	1.39	1.46
2	K	465	LEU	CA-C	-5.39	1.45	1.52
2	C	367	ASN	N-CA	-5.39	1.39	1.45
4	E	375	PHE	CA-C	-5.39	1.45	1.52
4	E	831	ALA	N-CA	-5.39	1.39	1.45
3	U	279	SER	C-N	5.39	1.40	1.33
3	U	567	ILE	N-CA	-5.39	1.42	1.46
3	U	778	SER	C-N	5.39	1.41	1.33
2	C	41	CYS	CA-C	-5.39	1.45	1.52
3	U	773	TRP	N-CA	-5.39	1.39	1.46
4	V	615	GLU	C-N	5.39	1.40	1.33
3	L	302	GLU	CA-C	-5.39	1.45	1.52
3	D	329	ALA	CA-C	-5.38	1.45	1.52
5	F	65	LEU	CA-C	5.38	1.59	1.52
4	V	416	ALA	CA-C	-5.38	1.45	1.52
3	D	459	ARG	CA-C	-5.38	1.46	1.52
6	G	764	THR	N-CA	-5.38	1.39	1.45
3	D	279	SER	C-N	5.38	1.40	1.33
6	G	886	LYS	N-CA	-5.38	1.39	1.46
6	O	149	SER	C-N	5.38	1.41	1.33
5	W	65	LEU	CA-C	5.38	1.59	1.52
6	X	97	GLU	N-CA	-5.38	1.39	1.46
6	G	83	GLU	CA-C	-5.38	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	368	ASN	CA-C	-5.38	1.46	1.53
3	D	307	SER	CA-C	-5.38	1.45	1.52
7	P	22	VAL	N-CA	-5.38	1.40	1.46
2	T	209	ASN	N-CA	-5.38	1.39	1.46
3	U	4	ARG	N-CA	-5.38	1.39	1.46
4	E	177	TRP	CA-C	-5.37	1.45	1.52
3	L	375	TYR	CA-C	-5.37	1.46	1.52
3	L	421	LYS	C-N	-5.37	1.26	1.33
3	L	576	GLY	N-CA	5.37	1.53	1.45
4	M	177	TRP	CA-C	-5.37	1.45	1.52
4	E	615	GLU	C-N	5.37	1.40	1.33
2	T	465	LEU	CA-C	-5.37	1.45	1.52
4	V	375	PHE	CA-C	-5.37	1.45	1.52
5	F	142	VAL	CA-C	-5.37	1.46	1.52
2	K	367	ASN	N-CA	-5.37	1.39	1.45
3	L	684	SER	C-N	5.37	1.41	1.33
4	M	750	GLU	CA-C	-5.37	1.46	1.52
6	O	368	ASN	CA-C	-5.37	1.46	1.53
7	H	83	LEU	CA-C	-5.37	1.45	1.52
6	X	83	GLU	CA-C	-5.37	1.45	1.52
2	C	634	TYR	N-CA	-5.37	1.40	1.46
4	E	416	ALA	CA-C	-5.37	1.45	1.52
4	V	148	ILE	C-N	5.37	1.40	1.34
6	X	764	THR	N-CA	-5.37	1.39	1.45
6	O	886	LYS	N-CA	-5.36	1.39	1.46
4	V	801	VAL	C-N	5.36	1.41	1.33
4	M	148	ILE	C-N	5.36	1.40	1.34
7	P	83	LEU	CA-C	-5.36	1.45	1.52
7	H	57	VAL	CA-C	-5.36	1.46	1.52
2	K	209	ASN	N-CA	-5.36	1.39	1.46
4	M	801	VAL	C-N	5.36	1.41	1.33
6	O	764	THR	N-CA	-5.36	1.39	1.45
3	U	307	SER	CA-C	-5.36	1.46	1.52
6	X	902	TYR	N-CA	-5.36	1.39	1.46
7	Y	83	LEU	CA-C	-5.36	1.45	1.52
3	L	42	TRP	CA-C	-5.36	1.45	1.52
4	M	764	ILE	CA-C	-5.36	1.46	1.52
6	X	565	ALA	CA-C	-5.36	1.46	1.52
6	O	380	ARG	C-N	5.35	1.40	1.33
3	D	42	TRP	CA-C	-5.35	1.46	1.52
6	G	32	LYS	CA-C	-5.35	1.45	1.52
3	U	375	TYR	CA-C	-5.35	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	E	168	LYS	CA-C	-5.35	1.46	1.52
6	O	83	GLU	CA-C	-5.35	1.45	1.52
3	D	4	ARG	N-CA	-5.35	1.39	1.46
6	G	902	TYR	N-CA	-5.35	1.39	1.46
2	K	761	SER	N-CA	-5.35	1.40	1.46
3	L	801	LEU	CA-C	-5.35	1.45	1.53
2	T	416	LEU	CA-C	-5.35	1.46	1.52
3	U	449	PHE	CA-C	-5.35	1.46	1.52
3	U	470	TRP	CA-C	-5.35	1.46	1.52
3	D	801	LEU	CA-C	-5.34	1.45	1.53
6	G	504	GLU	CA-C	-5.34	1.45	1.52
6	O	243	ALA	C-N	5.34	1.41	1.33
4	V	78	GLN	N-CA	-5.34	1.39	1.46
6	X	56	PRO	C-N	5.34	1.41	1.33
2	K	604	ILE	C-N	5.34	1.40	1.33
3	D	193	TYR	CA-C	-5.34	1.46	1.52
4	E	148	ILE	C-N	5.34	1.40	1.34
4	E	750	GLU	CA-C	-5.34	1.46	1.52
6	G	56	PRO	C-N	5.34	1.41	1.33
4	V	177	TRP	CA-C	-5.34	1.45	1.52
6	X	590	ALA	N-CA	-5.34	1.39	1.46
6	X	886	LYS	N-CA	-5.34	1.39	1.46
2	C	245	CYS	N-CA	-5.34	1.39	1.46
2	C	262	GLU	C-N	-5.34	1.27	1.33
5	N	127	GLU	C-N	5.34	1.40	1.33
2	C	209	ASN	N-CA	-5.34	1.39	1.46
2	K	206	ARG	CA-C	5.34	1.59	1.53
3	L	279	SER	C-N	5.34	1.40	1.33
2	T	262	GLU	C-N	-5.34	1.27	1.33
2	T	634	TYR	N-CA	-5.34	1.40	1.46
6	X	183	ASN	N-CA	5.34	1.52	1.46
7	Y	15	ALA	CA-C	-5.34	1.46	1.52
6	O	842	MET	C-N	5.33	1.41	1.33
3	L	778	SER	C-N	5.33	1.41	1.33
3	D	504	GLY	N-CA	5.33	1.53	1.45
3	D	778	SER	C-N	5.33	1.41	1.33
2	T	206	ARG	CA-C	5.33	1.59	1.53
3	U	193	TYR	CA-C	-5.33	1.46	1.52
3	U	801	LEU	CA-C	-5.33	1.46	1.53
6	X	380	ARG	C-N	5.33	1.40	1.33
4	M	441	GLU	N-CA	5.33	1.53	1.46
3	U	472	ASP	CA-C	-5.33	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Y	22	VAL	N-CA	-5.33	1.40	1.46
2	C	379	LEU	C-O	-5.33	1.17	1.24
3	D	684	SER	C-N	5.33	1.41	1.33
4	E	456	LEU	C-N	-5.33	1.27	1.33
6	O	183	ASN	N-CA	5.33	1.52	1.46
3	U	684	SER	C-N	5.33	1.41	1.33
3	D	449	PHE	CA-C	-5.32	1.46	1.52
6	G	939	THR	CA-C	-5.32	1.45	1.52
2	K	416	LEU	CA-C	-5.32	1.46	1.52
6	O	590	ALA	N-CA	-5.32	1.39	1.46
6	O	902	TYR	N-CA	-5.32	1.39	1.46
2	T	245	CYS	N-CA	-5.32	1.39	1.46
6	X	504	GLU	CA-C	-5.32	1.45	1.52
4	E	764	ILE	CA-C	-5.32	1.46	1.52
3	L	773	TRP	N-CA	-5.32	1.39	1.46
6	O	565	ALA	CA-C	-5.32	1.46	1.52
2	T	680	VAL	C-N	5.32	1.40	1.33
2	T	761	SER	N-CA	-5.32	1.40	1.46
2	C	680	VAL	C-N	5.32	1.40	1.33
2	K	680	VAL	C-N	5.32	1.40	1.33
6	X	32	LYS	CA-C	-5.32	1.45	1.52
3	L	193	TYR	CA-C	-5.31	1.46	1.52
3	L	46	THR	N-CA	5.31	1.53	1.46
4	M	456	LEU	C-N	-5.31	1.27	1.33
5	W	142	VAL	CA-C	-5.31	1.46	1.52
6	G	183	ASN	N-CA	5.31	1.52	1.46
4	V	168	LYS	CA-C	-5.31	1.46	1.52
6	X	842	MET	C-N	5.31	1.40	1.33
3	U	42	TRP	CA-C	-5.31	1.46	1.52
3	D	421	LYS	C-N	-5.30	1.26	1.33
2	K	262	GLU	C-N	-5.30	1.27	1.33
6	O	32	LYS	CA-C	-5.30	1.45	1.52
6	O	504	GLU	CA-C	-5.30	1.45	1.52
3	U	504	GLY	N-CA	5.30	1.53	1.45
7	H	15	ALA	CA-C	-5.30	1.46	1.52
4	V	790	THR	CA-C	-5.30	1.46	1.52
7	Y	94	CYS	CA-C	-5.30	1.45	1.52
7	H	94	CYS	CA-C	-5.30	1.45	1.52
4	V	441	GLU	N-CA	5.30	1.53	1.46
2	C	170	LYS	CA-C	-5.29	1.46	1.52
2	K	170	LYS	CA-C	-5.29	1.46	1.52
6	O	56	PRO	C-N	5.29	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	155	ASN	CA-C	5.29	1.60	1.52
4	E	643	GLU	C-N	5.29	1.41	1.33
6	G	565	ALA	CA-C	-5.29	1.46	1.52
6	G	831	CYS	CA-C	5.29	1.59	1.52
7	P	15	ALA	CA-C	-5.29	1.46	1.52
6	G	934	PRO	CA-C	-5.29	1.47	1.52
2	K	379	LEU	C-O	-5.29	1.18	1.24
6	O	831	CYS	CA-C	5.29	1.59	1.52
6	O	939	THR	CA-C	-5.29	1.45	1.52
6	G	380	ARG	C-N	5.29	1.40	1.33
3	D	773	TRP	N-CA	-5.28	1.39	1.46
3	L	472	ASP	CA-C	-5.28	1.45	1.52
3	L	504	GLY	N-CA	5.28	1.53	1.45
4	M	327	LEU	C-O	-5.28	1.18	1.24
6	O	141	ARG	N-CA	-5.28	1.39	1.46
3	U	421	LYS	C-N	-5.28	1.26	1.33
4	V	831	ALA	N-CA	-5.28	1.39	1.45
2	C	206	ARG	CA-C	5.28	1.59	1.53
3	L	155	ASN	CA-C	5.28	1.60	1.52
3	U	311	ASN	N-CA	5.28	1.52	1.46
6	G	887	SER	C-N	5.28	1.39	1.33
6	O	753	ASP	CA-C	-5.28	1.46	1.52
7	H	22	VAL	N-CA	-5.28	1.40	1.46
2	K	59	PHE	CA-C	-5.28	1.46	1.52
3	D	472	ASP	CA-C	-5.27	1.45	1.52
2	K	278	MET	C-N	5.27	1.41	1.33
4	M	790	THR	CA-C	-5.27	1.46	1.52
4	E	646	TYR	C-N	5.27	1.40	1.33
4	M	568	GLU	CA-C	5.27	1.58	1.52
3	D	46	THR	N-CA	5.27	1.52	1.46
6	G	537	GLU	C-O	-5.27	1.17	1.24
6	G	590	ALA	N-CA	-5.27	1.39	1.46
6	X	753	ASP	CA-C	-5.27	1.46	1.52
6	X	939	THR	CA-C	-5.27	1.45	1.52
3	L	311	ASN	N-CA	5.26	1.52	1.46
4	V	327	LEU	C-O	-5.26	1.18	1.24
2	C	419	VAL	C-O	-5.26	1.18	1.23
4	E	441	GLU	N-CA	5.26	1.52	1.46
2	T	419	VAL	C-O	-5.26	1.18	1.23
4	V	858	ALA	CA-C	-5.26	1.46	1.52
6	G	753	ASP	CA-C	-5.26	1.46	1.52
3	L	458	ILE	CA-C	-5.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	46	THR	N-CA	5.26	1.52	1.46
6	X	887	SER	C-N	5.26	1.39	1.33
2	T	278	MET	C-N	5.26	1.41	1.33
6	X	831	CYS	CA-C	5.26	1.58	1.52
2	C	589	VAL	N-CA	-5.26	1.40	1.46
6	G	862	PHE	C-N	5.26	1.40	1.33
7	P	94	CYS	CA-C	-5.26	1.45	1.52
2	T	589	VAL	N-CA	-5.26	1.40	1.46
6	X	537	GLU	C-O	-5.26	1.17	1.24
3	L	449	PHE	CA-C	-5.25	1.46	1.52
3	D	311	ASN	N-CA	5.25	1.52	1.46
2	K	589	VAL	N-CA	-5.25	1.40	1.46
4	M	643	GLU	C-N	5.25	1.41	1.33
4	M	646	TYR	C-N	5.25	1.40	1.33
2	T	379	LEU	C-O	-5.25	1.18	1.24
4	E	452	ALA	CA-C	-5.25	1.46	1.52
4	M	698	LEU	C-O	-5.25	1.18	1.24
3	D	756	PHE	CA-C	-5.25	1.46	1.52
4	E	47	ILE	CA-C	5.25	1.59	1.52
4	E	698	LEU	C-O	-5.25	1.18	1.24
3	L	383	LEU	CA-C	-5.25	1.46	1.53
4	M	168	LYS	CA-C	-5.25	1.46	1.52
3	U	756	PHE	CA-C	-5.25	1.46	1.52
4	V	643	GLU	C-N	5.25	1.41	1.33
6	X	393	ARG	N-CA	-5.25	1.40	1.46
6	X	141	ARG	N-CA	-5.25	1.39	1.46
4	E	568	GLU	CA-C	5.24	1.58	1.52
2	K	337	LYS	C-N	5.24	1.40	1.33
3	D	556	HIS	C-N	5.24	1.40	1.33
2	T	54	VAL	N-CA	-5.24	1.39	1.46
4	E	790	THR	CA-C	-5.24	1.46	1.52
6	G	758	VAL	N-CA	-5.24	1.40	1.46
2	K	580	CYS	C-N	5.24	1.40	1.33
2	T	170	LYS	CA-C	-5.24	1.46	1.52
4	V	456	LEU	C-N	-5.24	1.27	1.33
4	E	327	LEU	C-O	-5.24	1.18	1.24
3	D	383	LEU	CA-C	-5.24	1.46	1.53
6	G	497	ALA	CA-C	-5.24	1.46	1.52
6	X	68	PRO	CA-C	-5.24	1.45	1.52
3	L	756	PHE	CA-C	-5.23	1.46	1.52
4	E	421	ILE	CA-C	-5.23	1.46	1.52
4	E	858	ALA	CA-C	-5.23	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	385	ASN	C-N	5.23	1.41	1.33
4	V	421	ILE	CA-C	-5.23	1.46	1.52
3	U	458	ILE	CA-C	-5.23	1.46	1.52
2	K	419	VAL	C-O	-5.23	1.18	1.23
2	T	16	SER	C-N	5.23	1.40	1.33
4	V	698	LEU	C-O	-5.23	1.18	1.24
3	D	458	ILE	CA-C	-5.23	1.46	1.52
4	M	213	LYS	CA-C	-5.23	1.46	1.52
6	O	393	ARG	N-CA	-5.23	1.40	1.46
3	U	383	LEU	CA-C	-5.23	1.46	1.53
4	V	646	TYR	C-N	5.23	1.40	1.33
2	C	337	LYS	C-N	5.23	1.40	1.33
2	K	54	VAL	N-CA	-5.23	1.39	1.46
2	T	397	PRO	C-N	5.23	1.40	1.33
5	N	55	THR	CA-C	-5.22	1.45	1.52
3	U	155	ASN	CA-C	5.22	1.60	1.52
4	V	213	LYS	CA-C	-5.22	1.46	1.52
6	G	68	PRO	CA-C	-5.22	1.45	1.52
4	M	615	GLU	C-N	5.22	1.40	1.33
6	O	489	VAL	C-N	5.22	1.40	1.33
4	M	638	ALA	C-N	5.22	1.41	1.33
2	T	337	LYS	C-N	5.22	1.40	1.33
5	F	79	VAL	N-CA	-5.21	1.40	1.46
3	L	556	HIS	C-N	5.21	1.40	1.33
2	T	250	ASN	CA-C	-5.21	1.46	1.52
6	O	934	PRO	CA-C	-5.21	1.47	1.52
2	T	59	PHE	CA-C	-5.21	1.46	1.52
6	G	141	ARG	N-CA	-5.21	1.39	1.46
6	X	179	ASP	C-O	-5.21	1.17	1.23
6	X	862	PHE	C-N	5.21	1.40	1.33
2	C	278	MET	C-N	5.21	1.41	1.33
6	G	465	TYR	N-CA	-5.21	1.38	1.46
4	M	831	ALA	N-CA	-5.21	1.39	1.45
4	V	657	ASP	N-CA	-5.21	1.39	1.46
4	V	638	ALA	C-N	5.21	1.41	1.33
6	G	489	VAL	C-N	5.21	1.40	1.33
4	V	47	ILE	CA-C	5.21	1.59	1.52
5	W	55	THR	CA-C	-5.21	1.45	1.52
3	U	696	TYR	N-CA	-5.21	1.40	1.46
6	X	303	ASP	C-O	-5.21	1.19	1.24
3	L	696	TYR	N-CA	-5.20	1.40	1.46
5	N	79	VAL	N-CA	-5.20	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	734	ASP	N-CA	-5.20	1.39	1.45
4	E	638	ALA	C-N	5.20	1.41	1.33
6	G	303	ASP	C-O	-5.20	1.19	1.24
6	O	862	PHE	C-N	5.20	1.40	1.33
3	U	649	LEU	N-CA	5.20	1.52	1.46
6	G	179	ASP	C-O	-5.20	1.17	1.23
2	K	331	ASN	C-N	5.20	1.40	1.33
4	M	421	ILE	CA-C	-5.20	1.46	1.52
4	M	705	THR	CA-C	-5.20	1.46	1.52
4	V	568	GLU	CA-C	5.20	1.58	1.52
2	C	54	VAL	N-CA	-5.20	1.39	1.46
3	D	314	ILE	CA-C	-5.20	1.46	1.52
6	X	934	PRO	CA-C	-5.20	1.47	1.52
6	O	179	ASP	C-O	-5.20	1.17	1.23
3	D	556	HIS	CA-C	-5.20	1.46	1.52
6	O	68	PRO	CA-C	-5.20	1.45	1.52
6	O	535	LYS	C-O	-5.20	1.17	1.23
2	T	755	LYS	N-CA	-5.20	1.40	1.46
6	X	465	TYR	N-CA	-5.20	1.38	1.46
7	Y	68	LEU	CA-C	-5.20	1.46	1.52
2	T	333	LEU	N-CA	-5.19	1.39	1.46
2	K	397	PRO	C-N	5.19	1.40	1.33
5	W	79	VAL	N-CA	-5.19	1.40	1.46
2	C	331	ASN	C-N	5.19	1.40	1.33
5	F	55	THR	CA-C	-5.19	1.45	1.52
6	G	535	LYS	C-O	-5.19	1.17	1.23
6	O	497	ALA	CA-C	-5.19	1.46	1.52
6	O	537	GLU	C-O	-5.19	1.17	1.24
3	L	442	ARG	CA-C	-5.19	1.46	1.52
6	O	887	SER	C-N	5.19	1.39	1.33
2	C	385	ASN	C-N	5.19	1.41	1.33
3	D	42	TRP	N-CA	-5.19	1.39	1.46
2	C	114	ASP	N-CA	-5.18	1.40	1.46
4	M	734	ASP	N-CA	-5.18	1.39	1.45
4	V	453	THR	C-N	5.18	1.40	1.33
3	D	35	TYR	N-CA	-5.18	1.39	1.46
4	M	92	ILE	CA-C	-5.18	1.46	1.52
3	U	42	TRP	N-CA	-5.18	1.39	1.46
4	M	47	ILE	CA-C	5.18	1.59	1.52
2	T	765	HIS	C-O	-5.18	1.17	1.24
4	E	453	THR	C-N	5.18	1.40	1.33
4	V	92	ILE	CA-C	-5.18	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	X	535	LYS	C-O	-5.18	1.17	1.23
6	X	758	VAL	N-CA	-5.18	1.40	1.46
2	C	16	SER	C-N	5.18	1.40	1.33
6	O	316	ARG	C-N	5.18	1.40	1.33
2	C	333	LEU	N-CA	-5.17	1.39	1.46
3	D	696	TYR	N-CA	-5.17	1.40	1.46
4	E	213	LYS	CA-C	-5.17	1.46	1.52
6	G	99	ILE	C-O	-5.17	1.18	1.24
7	H	68	LEU	CA-C	-5.17	1.46	1.52
6	O	845	ILE	CA-C	-5.17	1.46	1.52
7	P	68	LEU	CA-C	-5.17	1.46	1.52
5	W	130	ASP	C-N	5.17	1.39	1.33
3	U	556	HIS	C-N	5.17	1.40	1.33
2	C	580	CYS	C-N	5.17	1.40	1.33
3	D	302	GLU	CA-C	-5.17	1.45	1.52
2	K	333	LEU	N-CA	-5.17	1.39	1.46
3	L	325	ALA	CA-C	-5.17	1.46	1.52
4	M	665	CYS	CA-C	-5.17	1.46	1.52
2	T	580	CYS	C-N	5.17	1.40	1.33
6	X	489	VAL	C-N	5.17	1.40	1.33
2	K	755	LYS	N-CA	-5.17	1.40	1.46
4	V	452	ALA	CA-C	-5.17	1.46	1.52
4	E	92	ILE	CA-C	-5.17	1.46	1.52
2	K	16	SER	C-N	5.17	1.40	1.33
3	U	528	LEU	C-N	5.17	1.40	1.33
4	E	734	ASP	N-CA	-5.17	1.39	1.45
2	T	494	VAL	C-N	5.17	1.40	1.33
4	V	705	THR	CA-C	-5.17	1.46	1.52
2	K	787	ASP	C-N	5.16	1.40	1.33
4	M	452	ALA	CA-C	-5.16	1.46	1.52
4	M	453	THR	C-N	5.16	1.40	1.33
4	E	46	HIS	C-O	-5.16	1.18	1.24
6	O	341	LEU	C-N	5.16	1.40	1.33
6	O	465	TYR	N-CA	-5.16	1.38	1.46
6	O	303	ASP	C-O	-5.16	1.19	1.24
4	V	496	ALA	N-CA	-5.16	1.40	1.46
6	G	341	LEU	C-N	5.16	1.40	1.33
4	M	465	LYS	N-CA	-5.16	1.38	1.45
2	C	59	PHE	CA-C	-5.16	1.46	1.52
4	E	665	CYS	CA-C	-5.16	1.46	1.52
4	M	496	ALA	N-CA	-5.16	1.40	1.46
3	D	528	LEU	C-N	5.15	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	649	LEU	N-CA	5.15	1.52	1.46
4	M	436	LEU	CA-C	-5.15	1.46	1.52
3	U	556	HIS	CA-C	-5.15	1.46	1.52
2	C	755	LYS	N-CA	-5.15	1.40	1.46
3	L	649	LEU	N-CA	5.15	1.52	1.46
6	O	99	ILE	C-O	-5.15	1.18	1.24
6	O	758	VAL	N-CA	-5.15	1.40	1.46
6	G	393	ARG	N-CA	-5.15	1.40	1.46
2	K	250	ASN	CA-C	-5.15	1.46	1.52
3	L	528	LEU	C-N	5.15	1.40	1.33
4	M	657	ASP	N-CA	-5.15	1.39	1.46
6	G	477	THR	CA-C	-5.15	1.45	1.52
4	V	712	LEU	C-N	5.15	1.39	1.33
6	G	316	ARG	C-N	5.15	1.40	1.33
4	M	292	LEU	C-N	5.14	1.40	1.33
6	O	251	ASN	N-CA	-5.14	1.40	1.46
2	T	331	ASN	C-N	5.14	1.40	1.33
4	V	515	ARG	CA-C	-5.14	1.46	1.52
6	X	316	ARG	C-N	5.14	1.40	1.33
2	C	765	HIS	C-O	-5.14	1.17	1.24
4	E	496	ALA	N-CA	-5.14	1.40	1.46
2	K	301	PRO	C-O	-5.14	1.17	1.24
4	M	858	ALA	CA-C	-5.14	1.46	1.52
2	T	114	ASP	N-CA	-5.14	1.40	1.46
6	X	251	ASN	N-CA	-5.14	1.40	1.46
3	U	314	ILE	CA-C	-5.14	1.46	1.52
6	X	567	ARG	CA-C	-5.14	1.46	1.52
6	G	567	ARG	CA-C	-5.14	1.46	1.52
4	M	785	LYS	C-N	5.14	1.41	1.33
6	O	567	ARG	CA-C	-5.14	1.46	1.52
2	C	397	PRO	C-N	5.13	1.40	1.33
4	E	705	THR	CA-C	-5.13	1.46	1.52
3	L	42	TRP	N-CA	-5.13	1.39	1.46
3	U	442	ARG	CA-C	-5.13	1.46	1.52
4	V	292	LEU	C-N	5.13	1.40	1.33
2	C	250	ASN	CA-C	-5.13	1.46	1.52
5	N	130	ASP	C-N	5.13	1.39	1.33
2	T	301	PRO	C-O	-5.13	1.17	1.24
4	V	850	ASP	CA-C	-5.13	1.44	1.52
3	L	306	MET	C-N	5.13	1.40	1.33
6	G	746	TYR	C-N	5.13	1.40	1.33
2	K	114	ASP	N-CA	-5.13	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	385	ASN	C-N	5.13	1.40	1.33
4	E	465	LYS	N-CA	-5.13	1.38	1.45
4	E	850	ASP	CA-C	-5.13	1.44	1.52
6	G	251	ASN	N-CA	-5.13	1.40	1.46
3	L	556	HIS	CA-C	-5.13	1.46	1.52
6	X	497	ALA	CA-C	-5.13	1.46	1.52
6	X	845	ILE	CA-C	-5.13	1.46	1.52
2	K	186	GLY	N-CA	-5.13	1.38	1.45
4	E	657	ASP	N-CA	-5.12	1.39	1.46
6	O	271	LEU	C-N	5.12	1.39	1.33
4	V	665	CYS	CA-C	-5.12	1.46	1.52
3	D	373	GLY	N-CA	-5.12	1.37	1.45
2	K	144	HIS	C-N	-5.12	1.27	1.33
3	U	787	SER	CA-C	-5.12	1.46	1.52
2	C	301	PRO	C-O	-5.12	1.17	1.24
2	C	787	ASP	C-N	5.12	1.40	1.33
3	D	306	MET	C-N	5.12	1.40	1.33
3	D	442	ARG	CA-C	-5.12	1.46	1.52
4	M	712	LEU	C-N	5.12	1.39	1.33
6	X	99	ILE	C-O	-5.12	1.18	1.24
6	X	341	LEU	C-N	5.12	1.40	1.33
3	D	787	SER	CA-C	-5.12	1.46	1.52
4	E	712	LEU	C-N	5.12	1.39	1.33
5	F	130	ASP	C-N	5.12	1.39	1.33
4	M	560	LYS	C-N	5.12	1.40	1.33
2	T	186	GLY	N-CA	-5.12	1.38	1.45
2	T	317	PHE	N-CA	-5.12	1.39	1.45
2	T	787	ASP	C-N	5.12	1.40	1.33
3	L	211	VAL	C-N	5.12	1.40	1.33
3	L	648	ALA	C-N	5.12	1.40	1.33
5	W	107	LYS	C-N	5.12	1.40	1.33
3	U	325	ALA	CA-C	-5.11	1.46	1.52
4	V	436	LEU	CA-C	-5.11	1.46	1.52
4	E	436	LEU	CA-C	-5.11	1.46	1.52
6	G	845	ILE	CA-C	-5.11	1.46	1.52
3	L	373	GLY	N-CA	-5.11	1.37	1.45
3	U	306	MET	C-N	5.11	1.40	1.33
3	U	373	GLY	N-CA	-5.11	1.37	1.45
4	M	46	HIS	C-O	-5.11	1.18	1.24
6	O	746	TYR	C-N	5.11	1.40	1.33
2	K	18	HIS	N-CA	-5.11	1.38	1.45
2	K	633	GLY	C-N	5.11	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	269	TYR	C-N	5.11	1.40	1.33
4	M	850	ASP	CA-C	-5.10	1.45	1.52
4	M	451	LEU	N-CA	-5.10	1.40	1.46
2	C	529	ARG	C-N	5.10	1.44	1.33
4	E	560	LYS	C-N	5.10	1.40	1.33
4	M	862	GLU	CA-C	-5.10	1.46	1.52
2	T	144	HIS	C-N	-5.10	1.27	1.33
2	T	572	ARG	N-CA	5.10	1.52	1.46
2	T	673	CYS	C-O	-5.10	1.18	1.24
4	V	785	LYS	C-N	5.10	1.40	1.33
2	C	633	GLY	C-N	5.10	1.41	1.34
3	D	211	VAL	C-N	5.10	1.40	1.33
4	E	785	LYS	C-N	5.10	1.40	1.33
4	V	823	LYS	CA-C	-5.10	1.46	1.52
5	F	107	LYS	C-N	5.10	1.40	1.33
3	L	787	SER	CA-C	-5.10	1.46	1.52
7	Y	111	PHE	C-N	5.09	1.40	1.33
4	E	292	LEU	C-N	5.09	1.40	1.33
2	K	765	HIS	C-O	-5.09	1.17	1.24
3	D	512	ASP	CA-C	5.09	1.58	1.52
4	E	823	LYS	CA-C	-5.09	1.46	1.52
2	K	317	PHE	N-CA	-5.09	1.39	1.45
3	L	35	TYR	N-CA	-5.09	1.39	1.46
5	N	132	GLY	N-CA	-5.09	1.38	1.45
4	V	525	ARG	N-CA	-5.09	1.40	1.46
6	X	186	ASP	CA-C	-5.09	1.45	1.52
2	C	673	CYS	C-O	-5.09	1.18	1.24
2	T	633	GLY	C-N	5.09	1.41	1.34
4	V	465	LYS	N-CA	-5.09	1.38	1.45
4	M	525	ARG	N-CA	-5.09	1.40	1.46
5	W	132	GLY	N-CA	-5.09	1.38	1.45
3	D	325	ALA	CA-C	-5.09	1.46	1.52
4	M	823	LYS	CA-C	-5.09	1.46	1.52
3	U	35	TYR	N-CA	-5.09	1.39	1.46
3	D	115	LEU	CA-C	-5.08	1.46	1.52
3	D	648	ALA	C-N	5.08	1.40	1.33
6	O	477	THR	CA-C	-5.08	1.45	1.52
2	C	186	GLY	N-CA	-5.08	1.38	1.45
4	E	862	GLU	CA-C	-5.08	1.46	1.52
2	K	369	SER	CA-C	-5.08	1.46	1.52
3	U	512	ASP	CA-C	5.08	1.58	1.52
3	U	739	ASP	C-N	5.08	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	498	ALA	CA-C	-5.08	1.46	1.52
3	D	565	GLY	CA-C	-5.08	1.46	1.51
3	L	314	ILE	CA-C	-5.08	1.46	1.52
3	L	478	CYS	CA-C	-5.08	1.46	1.52
4	M	452	ALA	N-CA	-5.08	1.40	1.46
3	U	478	CYS	CA-C	-5.08	1.46	1.52
6	X	477	THR	CA-C	-5.08	1.45	1.52
3	D	55	VAL	CA-C	-5.07	1.46	1.52
2	K	28	LEU	C-N	5.07	1.41	1.33
2	K	494	VAL	C-N	5.07	1.40	1.33
5	F	132	GLY	N-CA	-5.07	1.38	1.45
2	T	345	ASP	N-CA	-5.07	1.39	1.46
6	G	746	TYR	C-O	-5.07	1.17	1.23
6	O	101	VAL	CA-C	-5.07	1.46	1.53
3	U	633	GLN	C-N	5.07	1.40	1.33
6	X	746	TYR	C-N	5.07	1.40	1.33
4	E	525	ARG	N-CA	-5.07	1.40	1.46
2	K	50	HIS	CA-C	-5.07	1.46	1.52
2	C	494	VAL	C-N	5.07	1.40	1.33
3	D	478	CYS	CA-C	-5.07	1.46	1.52
2	T	28	LEU	C-N	5.07	1.41	1.33
3	U	648	ALA	C-N	5.07	1.40	1.33
4	V	560	LYS	C-N	5.07	1.40	1.33
2	K	529	ARG	C-N	5.07	1.43	1.33
6	O	912	ALA	N-CA	-5.07	1.40	1.46
3	U	565	GLY	CA-C	-5.07	1.46	1.51
4	V	837	GLY	N-CA	-5.07	1.37	1.45
3	D	269	TYR	C-N	5.06	1.40	1.33
3	L	739	ASP	C-N	5.06	1.40	1.33
2	C	144	HIS	C-N	-5.06	1.27	1.33
4	E	866	VAL	C-O	-5.06	1.18	1.24
3	U	18	VAL	N-CA	-5.06	1.40	1.46
4	V	451	LEU	N-CA	-5.06	1.40	1.46
4	E	809	GLY	C-N	5.06	1.41	1.33
6	G	912	ALA	N-CA	-5.06	1.40	1.46
3	L	633	GLN	C-N	5.06	1.40	1.33
6	G	101	VAL	CA-C	-5.06	1.46	1.53
3	L	479	ILE	CA-C	-5.06	1.46	1.52
4	M	103	ILE	C-N	5.06	1.40	1.34
2	T	529	ARG	C-N	5.06	1.43	1.33
6	X	890	MET	CA-C	-5.06	1.46	1.52
6	X	925	SER	C-O	-5.06	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	512	ASP	CA-C	5.06	1.58	1.52
6	X	490	GLU	CA-C	-5.06	1.46	1.52
4	E	57	GLN	C-N	5.06	1.40	1.33
5	N	107	LYS	C-N	5.06	1.40	1.33
6	O	925	SER	C-O	-5.06	1.18	1.24
2	C	317	PHE	N-CA	-5.05	1.39	1.45
4	E	452	ALA	N-CA	-5.05	1.40	1.46
3	L	729	PHE	C-N	5.05	1.40	1.33
6	O	890	MET	CA-C	-5.05	1.46	1.52
3	U	355	PRO	CA-C	-5.05	1.45	1.52
4	M	57	GLN	C-N	5.05	1.40	1.33
6	O	301	VAL	C-N	5.05	1.40	1.33
3	D	18	VAL	N-CA	-5.05	1.40	1.46
6	G	241	GLU	CA-C	-5.05	1.46	1.52
2	K	345	ASP	N-CA	-5.05	1.39	1.46
3	L	18	VAL	N-CA	-5.05	1.40	1.46
7	P	111	PHE	C-N	5.05	1.40	1.33
4	V	46	HIS	C-O	-5.05	1.18	1.24
3	D	633	GLN	C-N	5.05	1.40	1.33
3	D	729	PHE	C-N	5.05	1.40	1.33
3	U	211	VAL	C-N	5.05	1.40	1.33
2	C	345	ASP	N-CA	-5.05	1.39	1.46
3	D	479	ILE	CA-C	-5.05	1.46	1.52
6	G	186	ASP	CA-C	-5.05	1.46	1.52
2	T	145	PRO	C-N	5.05	1.40	1.33
4	V	696	ARG	CA-C	5.05	1.59	1.52
5	W	61	LEU	C-O	-5.05	1.18	1.24
2	T	50	HIS	CA-C	-5.04	1.46	1.52
3	U	186	LYS	CA-C	-5.04	1.45	1.52
3	U	729	PHE	C-N	5.04	1.40	1.33
2	C	758	ALA	CA-C	-5.04	1.46	1.52
3	D	308	MET	CA-C	-5.04	1.46	1.52
2	K	349	SER	CA-C	-5.04	1.46	1.52
2	K	728	ASP	CA-C	-5.04	1.46	1.52
4	M	652	LYS	CA-C	-5.04	1.46	1.52
2	T	349	SER	CA-C	-5.04	1.46	1.52
6	X	241	GLU	CA-C	-5.04	1.46	1.52
6	X	912	ALA	N-CA	-5.04	1.40	1.46
3	L	552	VAL	N-CA	-5.04	1.40	1.46
6	X	145	GLU	N-CA	-5.04	1.39	1.46
3	L	725	ASN	N-CA	-5.04	1.40	1.46
5	N	61	LEU	C-O	-5.04	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	862	GLU	CA-C	-5.04	1.46	1.52
7	Y	28	ARG	C-N	5.04	1.40	1.33
3	D	739	ASP	C-N	5.04	1.40	1.33
4	E	652	LYS	CA-C	-5.04	1.46	1.52
7	H	54	VAL	C-O	-5.04	1.18	1.24
2	K	4	LYS	C-N	-5.04	1.27	1.33
6	O	116	ILE	N-CA	-5.04	1.40	1.46
2	C	369	SER	CA-C	-5.04	1.46	1.52
2	T	758	ALA	CA-C	-5.04	1.46	1.52
4	V	866	VAL	C-O	-5.04	1.18	1.24
4	E	527	ARG	CA-C	-5.03	1.46	1.52
2	K	758	ALA	CA-C	-5.03	1.46	1.52
3	U	55	VAL	CA-C	-5.03	1.46	1.52
4	V	103	ILE	C-N	5.03	1.40	1.34
4	V	435	GLY	C-N	5.03	1.40	1.33
2	C	572	ARG	N-CA	5.03	1.52	1.46
6	G	116	ILE	N-CA	-5.03	1.40	1.46
6	G	925	SER	C-O	-5.03	1.18	1.24
3	U	479	ILE	CA-C	-5.03	1.46	1.52
3	D	355	PRO	CA-C	-5.03	1.45	1.52
3	L	269	TYR	C-N	5.03	1.39	1.33
4	E	103	ILE	C-N	5.03	1.40	1.34
4	E	725	SER	CA-C	-5.03	1.46	1.52
2	C	145	PRO	C-N	5.03	1.40	1.33
3	U	498	ALA	CA-C	-5.03	1.46	1.52
4	M	499	GLY	C-N	5.03	1.40	1.33
4	M	515	ARG	CA-C	-5.03	1.46	1.52
6	O	532	PRO	N-CA	-5.03	1.42	1.46
6	X	101	VAL	CA-C	-5.03	1.46	1.53
6	G	890	MET	CA-C	-5.02	1.46	1.52
7	H	28	ARG	C-N	5.02	1.40	1.33
2	K	572	ARG	N-CA	5.02	1.52	1.46
4	V	452	ALA	N-CA	-5.02	1.40	1.46
3	D	552	VAL	N-CA	-5.02	1.40	1.46
3	L	461	ILE	CA-C	-5.02	1.46	1.52
6	O	241	GLU	CA-C	-5.02	1.46	1.52
6	O	490	GLU	CA-C	-5.02	1.46	1.52
4	V	499	GLY	C-N	5.02	1.40	1.33
6	X	301	VAL	C-N	5.02	1.40	1.33
2	C	349	SER	CA-C	-5.02	1.46	1.52
3	D	694	GLN	C-N	5.02	1.39	1.33
4	E	451	LEU	N-CA	-5.02	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	532	PRO	N-CA	-5.02	1.42	1.46
7	H	111	PHE	C-N	5.02	1.40	1.33
4	M	177	TRP	C-N	5.02	1.40	1.34
4	M	866	VAL	C-O	-5.02	1.18	1.24
6	G	271	LEU	C-N	5.02	1.39	1.33
4	E	515	ARG	CA-C	-5.01	1.46	1.52
3	L	694	GLN	C-N	5.01	1.39	1.33
6	X	271	LEU	C-N	5.01	1.39	1.33
2	K	145	PRO	C-N	5.01	1.40	1.33
3	L	55	VAL	CA-C	-5.01	1.46	1.52
4	V	57	GLN	C-N	5.01	1.40	1.33
6	X	116	ILE	N-CA	-5.01	1.40	1.46
2	C	702	LYS	N-CA	5.01	1.52	1.46
4	E	837	GLY	N-CA	-5.01	1.37	1.45
5	F	99	ASP	N-CA	-5.01	1.40	1.46
2	K	479	GLN	CA-C	-5.01	1.46	1.52
3	L	355	PRO	CA-C	-5.01	1.45	1.52
7	P	54	VAL	C-O	-5.01	1.18	1.24
2	T	702	LYS	N-CA	5.01	1.52	1.46
4	V	652	LYS	CA-C	-5.01	1.46	1.52
4	V	725	SER	CA-C	-5.01	1.46	1.52
4	M	435	GLY	C-N	5.01	1.40	1.33
4	M	696	ARG	CA-C	5.01	1.59	1.52
6	O	746	TYR	C-O	-5.01	1.17	1.23
3	U	22	ASP	CA-C	-5.01	1.46	1.52
3	U	115	LEU	CA-C	-5.01	1.46	1.52
7	H	67	VAL	N-CA	5.01	1.52	1.46
2	T	728	ASP	CA-C	-5.01	1.46	1.52
4	V	489	ALA	N-CA	5.01	1.52	1.46
2	C	28	LEU	C-N	5.00	1.41	1.33
2	C	50	HIS	CA-C	-5.00	1.46	1.52
2	C	479	GLN	CA-C	-5.00	1.46	1.52
3	L	796	ASN	CA-C	-5.00	1.46	1.52
5	N	99	ASP	N-CA	-5.00	1.40	1.46
5	N	145	ARG	N-CA	-5.00	1.40	1.46
6	G	301	VAL	C-N	5.00	1.40	1.33
6	O	186	ASP	CA-C	-5.00	1.46	1.52
3	U	725	ASN	N-CA	-5.00	1.40	1.46
3	U	727	VAL	N-CA	-5.00	1.40	1.46
6	X	149	SER	C-O	-5.00	1.17	1.24
3	L	498	ALA	CA-C	-5.00	1.46	1.52

All (4921) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	496	GLU	N-CA-C	19.08	132.15	111.36
6	G	496	GLU	N-CA-C	19.02	132.10	111.36
6	X	496	GLU	N-CA-C	19.02	132.09	111.36
7	Y	90	ILE	CA-C-O	-14.65	108.88	118.69
7	H	90	ILE	CA-C-O	-14.59	108.91	118.69
7	P	90	ILE	CA-C-O	-14.56	108.93	118.69
4	E	302	ALA	CA-C-N	13.22	139.32	120.28
4	E	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	M	302	ALA	CA-C-N	13.21	139.30	120.28
4	M	302	ALA	C-N-CA	13.21	139.30	120.28
6	O	472	ILE	N-CA-C	13.04	123.92	110.62
6	X	472	ILE	N-CA-C	13.04	123.92	110.62
4	E	450	VAL	N-CA-C	12.98	123.86	110.62
6	G	472	ILE	N-CA-C	12.97	123.86	110.62
4	M	450	VAL	N-CA-C	12.95	123.83	110.62
4	V	450	VAL	N-CA-C	12.95	123.83	110.62
4	M	206	ASN	N-CA-C	-12.78	98.65	114.75
4	E	206	ASN	N-CA-C	-12.76	98.68	114.75
4	V	206	ASN	N-CA-C	-12.75	98.68	114.75
6	G	64	ARG	N-CA-C	12.68	125.10	111.28
6	O	64	ARG	N-CA-C	12.66	125.08	111.28
6	X	64	ARG	N-CA-C	12.66	125.08	111.28
3	D	431	GLU	N-CA-C	-12.57	100.30	114.62
3	U	431	GLU	N-CA-C	-12.56	100.30	114.62
3	L	431	GLU	N-CA-C	-12.50	100.37	114.62
7	P	132	THR	N-CA-C	-11.88	98.33	111.28
7	Y	132	THR	N-CA-C	-11.87	98.34	111.28
7	H	132	THR	N-CA-C	-11.86	98.35	111.28
2	C	732	HIS	CA-C-N	11.69	135.94	120.28
2	C	732	HIS	C-N-CA	11.69	135.94	120.28
2	K	732	HIS	CA-C-N	11.68	135.94	120.28
2	K	732	HIS	C-N-CA	11.68	135.94	120.28
2	T	732	HIS	CA-C-N	11.67	135.92	120.28
2	T	732	HIS	C-N-CA	11.67	135.92	120.28
4	M	203	VAL	N-CA-C	11.50	121.34	110.53
4	V	203	VAL	N-CA-C	11.49	121.33	110.53
4	E	203	VAL	N-CA-C	11.48	121.32	110.53
6	G	486	ILE	O-C-N	-11.37	108.14	121.10
2	K	164	ILE	N-CA-C	-11.36	102.70	111.90
2	C	164	ILE	N-CA-C	-11.36	102.70	111.90
6	X	486	ILE	O-C-N	-11.33	108.19	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	164	ILE	N-CA-C	-11.31	102.74	111.90
6	O	486	ILE	O-C-N	-11.30	108.22	121.10
3	D	642	GLU	CA-C-O	-10.99	108.77	120.42
3	L	642	GLU	CA-C-O	-10.97	108.79	120.42
3	U	642	GLU	CA-C-O	-10.94	108.82	120.42
5	N	26	LEU	N-CA-C	-10.92	99.35	111.14
5	W	26	LEU	N-CA-C	-10.92	99.35	111.14
5	F	26	LEU	N-CA-C	-10.89	99.38	111.14
2	C	54	VAL	N-CA-C	-10.59	92.29	107.75
2	T	54	VAL	N-CA-C	-10.55	92.34	107.75
2	K	54	VAL	N-CA-C	-10.53	92.37	107.75
4	M	766	LYS	CA-C-N	10.37	133.72	122.11
4	M	766	LYS	C-N-CA	10.37	133.72	122.11
4	V	766	LYS	CA-C-N	10.36	133.72	122.11
4	V	766	LYS	C-N-CA	10.36	133.72	122.11
4	E	766	LYS	CA-C-N	10.36	133.71	122.11
4	E	766	LYS	C-N-CA	10.36	133.71	122.11
3	L	461	ILE	N-CA-C	-10.30	93.64	108.48
6	O	563	LYS	CA-C-N	10.27	133.71	120.56
6	O	563	LYS	C-N-CA	10.27	133.71	120.56
3	U	461	ILE	N-CA-C	-10.27	93.69	108.48
3	D	461	ILE	N-CA-C	-10.27	93.70	108.48
6	G	563	LYS	CA-C-N	10.25	133.68	120.56
6	G	563	LYS	C-N-CA	10.25	133.68	120.56
6	X	563	LYS	CA-C-N	10.24	133.66	120.56
6	X	563	LYS	C-N-CA	10.24	133.66	120.56
6	G	869	THR	N-CA-C	-10.19	92.80	109.40
2	K	697	THR	N-CA-C	-10.18	100.61	113.23
6	X	869	THR	N-CA-C	-10.17	92.82	109.40
2	C	697	THR	N-CA-C	-10.16	100.63	113.23
2	T	697	THR	N-CA-C	-10.16	100.63	113.23
4	M	756	LEU	N-CA-C	-10.15	92.86	109.40
4	E	756	LEU	N-CA-C	-10.15	92.86	109.40
6	O	869	THR	N-CA-C	-10.14	92.87	109.40
4	V	756	LEU	N-CA-C	-10.13	92.88	109.40
3	D	78	ASP	CA-C-N	10.06	137.23	122.74
3	D	78	ASP	C-N-CA	10.06	137.23	122.74
3	U	78	ASP	CA-C-N	10.05	137.22	122.74
3	U	78	ASP	C-N-CA	10.05	137.22	122.74
4	E	542	LEU	CA-C-N	10.02	133.46	120.44
4	E	542	LEU	C-N-CA	10.02	133.46	120.44
4	M	542	LEU	CA-C-N	10.01	133.45	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	542	LEU	C-N-CA	10.01	133.45	120.44
3	L	78	ASP	CA-C-N	10.01	137.15	122.74
3	L	78	ASP	C-N-CA	10.01	137.15	122.74
4	V	542	LEU	CA-C-N	9.99	133.42	120.44
4	V	542	LEU	C-N-CA	9.99	133.42	120.44
6	O	544	GLY	CA-C-N	9.93	133.34	120.44
6	O	544	GLY	C-N-CA	9.93	133.34	120.44
6	G	544	GLY	CA-C-N	9.92	133.34	120.44
6	G	544	GLY	C-N-CA	9.92	133.34	120.44
6	X	544	GLY	CA-C-N	9.89	133.30	120.44
6	X	544	GLY	C-N-CA	9.89	133.30	120.44
4	E	429	SER	N-CA-C	9.81	122.89	111.11
4	V	429	SER	N-CA-C	9.79	122.86	111.11
6	X	873	ASN	N-CA-C	-9.79	98.05	111.56
3	L	204	SER	N-CA-C	-9.78	94.08	109.23
4	M	429	SER	N-CA-C	9.77	122.84	111.11
6	O	873	ASN	N-CA-C	-9.77	98.07	111.56
3	U	204	SER	N-CA-C	-9.77	94.08	109.23
3	D	204	SER	N-CA-C	-9.75	94.12	109.23
6	G	873	ASN	N-CA-C	-9.74	98.11	111.56
6	G	63	ILE	N-CA-C	9.68	120.50	110.62
6	X	63	ILE	N-CA-C	9.68	120.50	110.62
4	M	503	GLU	CA-C-N	9.65	133.60	120.38
4	M	503	GLU	C-N-CA	9.65	133.60	120.38
4	E	254	PHE	N-CA-C	-9.65	93.68	109.40
4	V	254	PHE	N-CA-C	-9.64	93.69	109.40
6	O	63	ILE	N-CA-C	9.64	120.45	110.62
4	E	465	LYS	N-CA-C	-9.62	98.69	113.89
4	V	503	GLU	CA-C-N	9.62	133.56	120.38
4	V	503	GLU	C-N-CA	9.62	133.56	120.38
4	V	465	LYS	N-CA-C	-9.62	98.69	113.89
4	E	503	GLU	CA-C-N	9.61	133.55	120.38
4	E	503	GLU	C-N-CA	9.61	133.55	120.38
4	M	254	PHE	N-CA-C	-9.60	93.75	109.40
4	M	465	LYS	N-CA-C	-9.59	98.74	113.89
3	U	429	GLY	N-CA-C	-9.59	99.28	112.13
3	L	429	GLY	N-CA-C	-9.55	99.33	112.13
3	D	429	GLY	N-CA-C	-9.55	99.33	112.13
3	L	286	VAL	N-CA-C	-9.53	93.38	108.81
4	E	356	SER	CA-C-N	9.52	133.50	120.46
4	E	356	SER	C-N-CA	9.52	133.50	120.46
3	U	573	LEU	N-CA-C	-9.51	94.28	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	286	VAL	N-CA-C	-9.51	93.41	108.81
3	L	469	PHE	N-CA-C	-9.51	94.48	109.50
3	D	469	PHE	N-CA-C	-9.50	94.49	109.50
4	M	356	SER	CA-C-N	9.50	133.47	120.46
4	M	356	SER	C-N-CA	9.50	133.47	120.46
3	U	286	VAL	N-CA-C	-9.49	93.44	108.81
3	L	573	LEU	N-CA-C	-9.48	94.32	109.59
3	U	469	PHE	N-CA-C	-9.48	94.51	109.50
4	V	356	SER	CA-C-N	9.48	133.44	120.46
4	V	356	SER	C-N-CA	9.48	133.44	120.46
4	M	736	ASP	CA-C-O	-9.46	108.72	119.32
6	X	106	ARG	N-CA-C	-9.46	100.50	112.90
6	O	106	ARG	N-CA-C	-9.44	100.54	112.90
4	V	736	ASP	CA-C-O	-9.43	108.75	119.32
2	K	395	THR	CA-C-N	9.43	126.18	120.24
2	K	395	THR	C-N-CA	9.43	126.18	120.24
4	E	736	ASP	CA-C-O	-9.43	108.76	119.32
6	G	106	ARG	N-CA-C	-9.43	100.55	112.90
3	D	573	LEU	N-CA-C	-9.43	94.30	109.76
3	U	490	TYR	N-CA-C	-9.41	93.07	108.41
3	D	490	TYR	N-CA-C	-9.40	93.09	108.41
3	L	490	TYR	N-CA-C	-9.38	93.12	108.41
3	D	642	GLU	O-C-N	9.36	132.82	122.15
2	C	395	THR	CA-C-N	9.35	126.13	120.24
2	C	395	THR	C-N-CA	9.35	126.13	120.24
3	L	642	GLU	O-C-N	9.34	132.79	122.15
2	T	395	THR	CA-C-N	9.32	126.11	120.24
2	T	395	THR	C-N-CA	9.32	126.11	120.24
4	E	746	GLY	CA-C-O	-9.30	112.64	121.38
3	U	642	GLU	O-C-N	9.28	132.73	122.15
4	V	746	GLY	CA-C-O	-9.28	112.66	121.38
7	H	131	ARG	CA-C-N	9.27	132.70	120.28
7	H	131	ARG	C-N-CA	9.27	132.70	120.28
7	H	66	MET	N-CA-C	-9.26	94.17	109.07
7	Y	131	ARG	CA-C-N	9.25	132.67	120.28
7	Y	131	ARG	C-N-CA	9.25	132.67	120.28
7	P	66	MET	N-CA-C	-9.24	94.19	109.07
2	C	407	ALA	CA-C-N	9.23	128.98	119.56
2	C	407	ALA	C-N-CA	9.23	128.98	119.56
4	M	759	THR	N-CA-C	-9.23	95.68	109.81
4	V	759	THR	N-CA-C	-9.22	95.70	109.81
4	E	759	THR	N-CA-C	-9.22	95.70	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	746	GLY	CA-C-O	-9.22	112.71	121.38
2	K	407	ALA	CA-C-N	9.21	128.95	119.56
2	K	407	ALA	C-N-CA	9.21	128.95	119.56
7	Y	66	MET	N-CA-C	-9.20	94.25	109.07
7	P	131	ARG	CA-C-N	9.20	132.60	120.28
7	P	131	ARG	C-N-CA	9.20	132.60	120.28
4	V	411	PHE	N-CA-C	-9.19	102.19	112.57
4	E	411	PHE	N-CA-C	-9.18	102.19	112.57
4	M	411	PHE	N-CA-C	-9.18	102.19	112.57
2	T	407	ALA	CA-C-N	9.17	128.91	119.56
2	T	407	ALA	C-N-CA	9.17	128.91	119.56
6	O	42	LEU	CA-C-N	9.17	132.36	120.44
6	O	42	LEU	C-N-CA	9.17	132.36	120.44
6	G	42	LEU	CA-C-N	9.13	132.32	120.44
6	G	42	LEU	C-N-CA	9.13	132.32	120.44
6	X	42	LEU	CA-C-N	9.11	132.29	120.44
6	X	42	LEU	C-N-CA	9.11	132.29	120.44
2	K	276	TRP	CA-C-N	9.09	133.67	120.95
2	K	276	TRP	C-N-CA	9.09	133.67	120.95
6	X	170	ILE	CA-C-N	9.09	128.83	119.56
6	X	170	ILE	C-N-CA	9.09	128.83	119.56
6	G	170	ILE	CA-C-N	9.08	128.82	119.56
6	G	170	ILE	C-N-CA	9.08	128.82	119.56
6	G	560	THR	CA-C-N	9.07	132.44	120.28
6	G	560	THR	C-N-CA	9.07	132.44	120.28
6	O	560	THR	CA-C-N	9.06	132.43	120.28
6	O	560	THR	C-N-CA	9.06	132.43	120.28
2	C	276	TRP	CA-C-N	9.06	133.63	120.95
2	C	276	TRP	C-N-CA	9.06	133.63	120.95
2	T	276	TRP	CA-C-N	9.06	133.63	120.95
2	T	276	TRP	C-N-CA	9.06	133.63	120.95
6	O	170	ILE	CA-C-N	9.06	128.80	119.56
6	O	170	ILE	C-N-CA	9.06	128.80	119.56
5	N	110	GLU	N-CA-C	-9.05	96.25	108.74
5	F	110	GLU	N-CA-C	-9.04	96.26	108.74
6	G	507	THR	N-CA-C	-9.03	104.33	114.62
4	E	386	LEU	N-CA-C	-9.02	101.40	111.14
5	W	110	GLU	N-CA-C	-9.02	96.30	108.74
6	X	560	THR	CA-C-N	9.02	132.36	120.28
6	X	560	THR	C-N-CA	9.02	132.36	120.28
6	X	507	THR	N-CA-C	-9.01	104.35	114.62
4	M	386	LEU	N-CA-C	-9.00	101.42	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	386	LEU	N-CA-C	-8.99	101.43	111.14
6	O	507	THR	N-CA-C	-8.98	104.38	114.62
2	T	291	HIS	N-CA-C	-8.97	99.65	113.02
3	L	717	GLU	CA-C-N	8.96	129.93	119.98
3	L	717	GLU	C-N-CA	8.96	129.93	119.98
3	U	717	GLU	CA-C-N	8.97	129.93	119.98
3	U	717	GLU	C-N-CA	8.97	129.93	119.98
2	K	291	HIS	N-CA-C	-8.96	99.67	113.02
3	D	717	GLU	CA-C-N	8.96	129.92	119.98
3	D	717	GLU	C-N-CA	8.96	129.92	119.98
2	C	291	HIS	N-CA-C	-8.94	99.69	113.02
5	F	80	ILE	N-CA-C	-8.93	95.61	108.48
4	V	208	ARG	CA-C-N	8.93	132.04	120.44
4	V	208	ARG	C-N-CA	8.93	132.04	120.44
5	W	80	ILE	N-CA-C	-8.91	95.66	108.48
4	E	709	LEU	N-CA-C	-8.90	95.26	109.59
4	V	709	LEU	N-CA-C	-8.90	95.26	109.59
5	N	80	ILE	N-CA-C	-8.90	95.67	108.48
6	G	130	ALA	N-CA-C	-8.89	102.16	113.72
2	T	435	LEU	CA-C-O	8.89	129.78	120.54
6	X	130	ALA	N-CA-C	-8.88	102.17	113.72
2	C	435	LEU	CA-C-O	8.88	129.77	120.54
4	M	709	LEU	N-CA-C	-8.88	95.30	109.59
4	E	208	ARG	CA-C-N	8.88	131.98	120.44
4	E	208	ARG	C-N-CA	8.88	131.98	120.44
1	A	108	GLN	N-CA-C	8.87	122.06	111.33
6	G	952	ALA	CA-C-N	8.87	132.16	120.28
6	G	952	ALA	C-N-CA	8.87	132.16	120.28
6	O	130	ALA	N-CA-C	-8.86	102.20	113.72
2	T	440	LEU	N-CA-C	-8.86	104.52	114.62
2	T	423	ARG	CA-C-N	8.86	134.68	122.19
2	T	423	ARG	C-N-CA	8.86	134.68	122.19
2	K	423	ARG	CA-C-N	8.86	134.68	122.19
2	K	423	ARG	C-N-CA	8.86	134.68	122.19
2	K	435	LEU	CA-C-O	8.85	129.74	120.54
1	J	108	GLN	N-CA-C	8.84	122.02	111.33
2	K	440	LEU	N-CA-C	-8.83	104.55	114.62
4	M	208	ARG	CA-C-N	8.83	131.92	120.44
4	M	208	ARG	C-N-CA	8.83	131.92	120.44
2	C	423	ARG	CA-C-N	8.83	134.64	122.19
2	C	423	ARG	C-N-CA	8.83	134.64	122.19
4	E	193	GLN	N-CA-C	8.82	120.90	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	108	GLN	N-CA-C	8.82	122.00	111.33
1	B	108	GLN	N-CA-C	8.82	122.00	111.33
2	C	440	LEU	N-CA-C	-8.82	104.57	114.62
4	E	426	GLU	N-CA-C	-8.81	101.36	112.90
6	O	952	ALA	CA-C-N	8.81	132.08	120.28
6	O	952	ALA	C-N-CA	8.81	132.08	120.28
1	R	108	GLN	N-CA-C	8.81	121.98	111.33
6	X	952	ALA	CA-C-N	8.80	132.08	120.28
6	X	952	ALA	C-N-CA	8.80	132.08	120.28
4	M	426	GLU	N-CA-C	-8.80	101.37	112.90
4	V	426	GLU	N-CA-C	-8.80	101.38	112.90
3	D	423	SER	N-CA-C	-8.79	102.26	113.16
3	L	423	SER	N-CA-C	-8.79	102.26	113.16
6	O	451	SER	CA-C-N	8.79	131.81	120.56
6	O	451	SER	C-N-CA	8.79	131.81	120.56
4	V	193	GLN	N-CA-C	8.78	120.84	111.28
1	I	108	GLN	N-CA-C	8.77	121.94	111.33
2	K	649	PHE	CA-C-N	8.77	132.03	120.28
2	K	649	PHE	C-N-CA	8.77	132.03	120.28
2	T	649	PHE	CA-C-N	8.77	132.03	120.28
2	T	649	PHE	C-N-CA	8.77	132.03	120.28
3	U	423	SER	N-CA-C	-8.77	102.29	113.16
2	C	649	PHE	CA-C-N	8.76	132.02	120.28
2	C	649	PHE	C-N-CA	8.76	132.02	120.28
6	O	410	SER	CA-C-N	8.76	132.37	120.54
6	O	410	SER	C-N-CA	8.76	132.37	120.54
6	X	451	SER	CA-C-N	8.76	131.77	120.56
6	X	451	SER	C-N-CA	8.76	131.77	120.56
4	V	509	ILE	N-CA-C	-8.75	102.02	110.42
6	X	410	SER	CA-C-N	8.75	132.35	120.54
6	X	410	SER	C-N-CA	8.75	132.35	120.54
4	E	509	ILE	N-CA-C	-8.74	102.03	110.42
4	M	193	GLN	N-CA-C	8.73	120.80	111.28
4	M	509	ILE	N-CA-C	-8.73	102.04	110.42
6	G	451	SER	CA-C-N	8.73	131.73	120.56
6	G	451	SER	C-N-CA	8.73	131.73	120.56
6	G	410	SER	CA-C-N	8.72	132.31	120.54
6	G	410	SER	C-N-CA	8.72	132.31	120.54
7	P	116	ILE	N-CA-C	8.68	119.49	110.72
7	Y	116	ILE	N-CA-C	8.68	119.48	110.72
2	C	767	LEU	CA-C-N	8.67	133.49	120.31
2	C	767	LEU	C-N-CA	8.67	133.49	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	549	GLY	O-C-N	8.66	130.50	122.19
7	H	116	ILE	N-CA-C	8.65	119.46	110.72
7	P	56	TYR	N-CA-C	-8.65	94.79	109.24
2	T	767	LEU	CA-C-N	8.65	133.46	120.31
2	T	767	LEU	C-N-CA	8.65	133.46	120.31
2	K	767	LEU	CA-C-N	8.65	133.46	120.31
2	K	767	LEU	C-N-CA	8.65	133.46	120.31
6	X	549	GLY	O-C-N	8.65	130.49	122.19
7	H	56	TYR	N-CA-C	-8.64	94.80	109.24
5	W	120	GLY	O-C-N	8.64	130.57	122.19
7	Y	56	TYR	N-CA-C	-8.63	94.83	109.24
6	G	549	GLY	O-C-N	8.62	130.47	122.19
5	F	120	GLY	O-C-N	8.58	130.51	122.19
5	N	120	GLY	O-C-N	8.56	130.49	122.19
2	C	431	ARG	N-CA-C	-8.55	99.40	113.50
2	T	431	ARG	N-CA-C	-8.54	99.40	113.50
3	L	21	VAL	N-CA-C	-8.54	97.08	108.35
6	X	394	PHE	CA-C-N	8.53	128.15	118.85
6	X	394	PHE	C-N-CA	8.53	128.15	118.85
2	K	431	ARG	N-CA-C	-8.53	99.42	113.50
3	U	657	ALA	CA-C-N	8.53	131.52	120.44
3	U	657	ALA	C-N-CA	8.53	131.52	120.44
6	G	89	THR	CA-C-O	-8.52	112.18	119.76
3	U	21	VAL	N-CA-C	-8.52	97.11	108.35
3	L	657	ALA	CA-C-N	8.52	131.51	120.44
3	L	657	ALA	C-N-CA	8.52	131.51	120.44
4	M	435	GLY	CA-C-N	8.51	131.68	120.28
4	M	435	GLY	C-N-CA	8.51	131.68	120.28
6	G	78	LEU	CA-C-N	8.51	131.68	120.28
6	G	78	LEU	C-N-CA	8.51	131.68	120.28
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	X	89	THR	CA-C-O	-8.50	112.19	119.76
4	V	435	GLY	CA-C-N	8.50	131.67	120.28
4	V	435	GLY	C-N-CA	8.50	131.67	120.28
3	D	21	VAL	N-CA-C	-8.50	97.13	108.35
4	E	435	GLY	CA-C-N	8.50	131.67	120.28
4	E	435	GLY	C-N-CA	8.50	131.67	120.28
6	O	78	LEU	CA-C-N	8.49	131.66	120.28
6	O	78	LEU	C-N-CA	8.49	131.66	120.28
6	G	860	ALA	CA-C-N	8.49	131.65	120.28
6	G	860	ALA	C-N-CA	8.49	131.65	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	860	ALA	CA-C-N	8.48	131.65	120.28
6	O	860	ALA	C-N-CA	8.48	131.65	120.28
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
6	X	78	LEU	CA-C-N	8.46	131.62	120.28
6	X	78	LEU	C-N-CA	8.46	131.62	120.28
6	O	394	PHE	CA-C-N	8.46	128.07	118.85
6	O	394	PHE	C-N-CA	8.46	128.07	118.85
6	X	818	ILE	N-CA-C	-8.45	95.87	108.46
5	F	69	TYR	CA-C-O	-8.45	112.21	121.33
6	O	89	THR	CA-C-O	-8.44	112.25	119.76
6	G	441	LYS	CA-C-N	8.44	131.59	120.28
6	G	441	LYS	C-N-CA	8.44	131.59	120.28
5	W	69	TYR	CA-C-O	-8.43	112.23	121.33
6	X	860	ALA	CA-C-N	8.43	131.57	120.28
6	X	860	ALA	C-N-CA	8.43	131.57	120.28
4	E	455	ILE	O-C-N	8.42	130.04	121.87
6	O	818	ILE	N-CA-C	-8.42	95.91	108.46
6	G	818	ILE	N-CA-C	-8.41	95.92	108.46
6	G	376	THR	N-CA-C	-8.41	95.02	108.73
2	K	611	VAL	CA-C-O	-8.41	111.39	120.47
6	O	79	LEU	CA-C-N	8.41	131.98	120.46
6	O	79	LEU	C-N-CA	8.41	131.98	120.46
4	V	455	ILE	O-C-N	8.40	130.02	121.87
2	T	611	VAL	CA-C-O	-8.40	111.40	120.47
4	M	621	PRO	N-CA-C	8.39	124.57	113.57
4	M	455	ILE	O-C-N	8.39	130.01	121.87
6	X	376	THR	N-CA-C	-8.39	95.06	108.73
6	X	79	LEU	CA-C-N	8.38	131.95	120.46
6	X	79	LEU	C-N-CA	8.38	131.95	120.46
5	N	69	TYR	CA-C-O	-8.38	112.28	121.33
3	U	115	LEU	N-CA-C	-8.38	96.31	109.72
4	V	621	PRO	N-CA-C	8.38	124.54	113.57
4	E	621	PRO	N-CA-C	8.37	124.54	113.57
6	G	79	LEU	CA-C-N	8.37	131.93	120.46
6	G	79	LEU	C-N-CA	8.37	131.93	120.46
5	F	69	TYR	O-C-N	8.36	132.78	123.25
2	K	273	ILE	N-CA-C	-8.37	96.40	108.11
3	D	115	LEU	N-CA-C	-8.36	96.34	109.72
6	O	376	THR	N-CA-C	-8.36	95.10	108.73
2	K	15	LEU	N-CA-C	-8.36	95.86	108.99
3	L	115	LEU	N-CA-C	-8.35	96.35	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	273	ILE	N-CA-C	-8.35	96.42	108.11
5	W	69	TYR	O-C-N	8.35	132.77	123.25
2	C	611	VAL	CA-C-O	-8.35	111.45	120.47
2	T	15	LEU	N-CA-C	-8.35	95.88	108.99
2	C	15	LEU	N-CA-C	-8.33	95.92	108.99
2	T	273	ILE	N-CA-C	-8.33	96.45	108.11
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
6	X	100	LEU	CA-C-N	8.32	133.36	121.55
6	X	100	LEU	C-N-CA	8.32	133.36	121.55
6	O	239	PRO	CA-C-N	8.32	131.63	120.65
6	O	239	PRO	C-N-CA	8.32	131.63	120.65
6	G	100	LEU	CA-C-N	8.31	133.36	121.55
6	G	100	LEU	C-N-CA	8.31	133.36	121.55
6	X	165	ASN	CA-C-N	8.31	134.30	122.08
6	X	165	ASN	C-N-CA	8.31	134.30	122.08
6	G	165	ASN	CA-C-N	8.31	134.30	122.08
6	G	165	ASN	C-N-CA	8.31	134.30	122.08
5	N	69	TYR	O-C-N	8.31	132.72	123.25
6	O	100	LEU	CA-C-N	8.29	133.32	121.55
6	O	100	LEU	C-N-CA	8.29	133.32	121.55
3	U	104	CYS	CA-C-N	8.29	134.46	122.94
3	U	104	CYS	C-N-CA	8.29	134.46	122.94
3	D	104	CYS	CA-C-N	8.27	134.44	122.94
3	D	104	CYS	C-N-CA	8.27	134.44	122.94
6	G	352	ASN	CA-C-N	8.27	130.98	120.56
6	G	352	ASN	C-N-CA	8.27	130.98	120.56
6	O	352	ASN	CA-C-N	8.27	130.98	120.56
6	O	352	ASN	C-N-CA	8.27	130.98	120.56
6	G	239	PRO	CA-C-N	8.27	131.56	120.65
6	G	239	PRO	C-N-CA	8.27	131.56	120.65
6	X	239	PRO	CA-C-N	8.26	131.56	120.65
6	X	239	PRO	C-N-CA	8.26	131.56	120.65
2	K	645	GLU	CA-C-N	8.25	132.00	120.29
2	K	645	GLU	C-N-CA	8.25	132.00	120.29
2	K	208	VAL	CA-C-N	8.24	132.00	120.29
2	K	208	VAL	C-N-CA	8.24	132.00	120.29
2	C	645	GLU	CA-C-N	8.24	131.99	120.29
2	C	645	GLU	C-N-CA	8.24	131.99	120.29
2	T	208	VAL	CA-C-N	8.24	131.99	120.29
2	T	208	VAL	C-N-CA	8.24	131.99	120.29
7	H	102	ILE	O-C-N	8.22	129.85	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	743	SER	N-CA-C	-8.22	105.25	114.62
6	X	352	ASN	CA-C-N	8.22	130.92	120.56
6	X	352	ASN	C-N-CA	8.22	130.92	120.56
2	K	743	SER	N-CA-C	-8.22	105.25	114.62
2	C	743	SER	N-CA-C	-8.21	105.25	114.62
2	K	704	SER	CA-C-N	8.22	131.12	120.44
2	K	704	SER	C-N-CA	8.22	131.12	120.44
2	T	645	GLU	CA-C-N	8.22	131.96	120.29
2	T	645	GLU	C-N-CA	8.22	131.96	120.29
2	C	208	VAL	CA-C-N	8.21	131.95	120.29
2	C	208	VAL	C-N-CA	8.21	131.95	120.29
2	K	618	ALA	N-CA-C	-8.21	101.30	113.61
2	T	618	ALA	N-CA-C	-8.21	101.30	113.61
7	H	49	VAL	N-CA-C	-8.20	96.69	108.42
7	Y	49	VAL	N-CA-C	-8.20	96.70	108.42
2	C	704	SER	CA-C-N	8.19	131.09	120.44
2	C	704	SER	C-N-CA	8.19	131.09	120.44
6	G	304	ARG	CA-C-N	8.19	131.09	120.44
6	G	304	ARG	C-N-CA	8.19	131.09	120.44
7	Y	102	ILE	O-C-N	8.19	129.81	121.87
2	T	704	SER	CA-C-N	8.18	131.08	120.44
2	T	704	SER	C-N-CA	8.18	131.08	120.44
2	C	618	ALA	N-CA-C	-8.18	101.35	113.61
6	O	304	ARG	CA-C-N	8.17	131.06	120.44
6	O	304	ARG	C-N-CA	8.17	131.06	120.44
7	P	49	VAL	N-CA-C	-8.17	96.74	108.42
7	P	102	ILE	O-C-N	8.15	129.77	121.87
3	L	268	ASN	N-CA-C	-8.13	97.05	109.41
3	U	352	GLU	N-CA-C	-8.13	104.50	114.75
7	H	19	ARG	CA-C-N	8.13	134.66	123.11
7	H	19	ARG	C-N-CA	8.13	134.66	123.11
7	P	19	ARG	CA-C-N	8.13	134.65	123.11
7	P	19	ARG	C-N-CA	8.13	134.65	123.11
3	D	352	GLU	N-CA-C	-8.13	104.51	114.75
7	Y	19	ARG	CA-C-N	8.13	134.65	123.11
7	Y	19	ARG	C-N-CA	8.13	134.65	123.11
3	U	268	ASN	N-CA-C	-8.12	97.06	109.41
6	G	449	ILE	O-C-N	-8.12	115.39	123.19
3	L	352	GLU	N-CA-C	-8.12	104.52	114.75
6	X	304	ARG	CA-C-N	8.12	130.99	120.44
6	X	304	ARG	C-N-CA	8.12	130.99	120.44
4	E	455	ILE	CA-C-O	-8.12	112.51	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	268	ASN	N-CA-C	-8.11	97.08	109.41
4	V	455	ILE	CA-C-O	-8.11	112.52	120.95
4	V	324	ALA	N-CA-C	8.10	128.06	110.80
6	X	449	ILE	O-C-N	-8.10	115.41	123.19
6	O	449	ILE	O-C-N	-8.10	115.41	123.19
4	M	324	ALA	N-CA-C	8.10	128.05	110.80
4	E	847	LEU	N-CA-C	-8.09	96.22	109.40
4	E	324	ALA	N-CA-C	8.08	128.01	110.80
6	G	775	LEU	N-CA-C	-8.07	97.11	109.95
4	M	455	ILE	CA-C-O	-8.07	112.56	120.95
6	X	775	LEU	N-CA-C	-8.06	97.14	109.95
4	E	374	GLU	CA-C-N	8.05	131.87	120.28
4	E	374	GLU	C-N-CA	8.05	131.87	120.28
6	G	792	LEU	N-CA-C	-8.05	93.66	110.80
4	M	847	LEU	N-CA-C	-8.05	96.28	109.40
6	O	424	VAL	CA-C-N	8.05	130.90	120.44
6	O	424	VAL	C-N-CA	8.05	130.90	120.44
4	V	847	LEU	N-CA-C	-8.05	96.28	109.40
6	X	792	LEU	N-CA-C	-8.05	93.66	110.80
4	M	374	GLU	CA-C-N	8.05	131.87	120.28
4	M	374	GLU	C-N-CA	8.05	131.87	120.28
4	V	374	GLU	CA-C-N	8.05	131.87	120.28
4	V	374	GLU	C-N-CA	8.05	131.87	120.28
6	O	775	LEU	N-CA-C	-8.04	97.16	109.95
6	X	424	VAL	CA-C-N	8.03	130.88	120.44
6	X	424	VAL	C-N-CA	8.03	130.88	120.44
4	V	543	ASN	O-C-N	8.03	130.34	122.07
6	O	792	LEU	N-CA-C	-8.03	93.70	110.80
3	D	473	SER	N-CA-C	-8.03	104.37	114.56
4	E	543	ASN	O-C-N	8.02	130.34	122.07
3	L	578	LYS	CA-C-N	8.02	132.26	120.87
3	L	578	LYS	C-N-CA	8.02	132.26	120.87
3	U	578	LYS	CA-C-N	8.02	132.26	120.87
3	U	578	LYS	C-N-CA	8.02	132.26	120.87
3	D	578	LYS	CA-C-N	8.01	132.24	120.87
3	D	578	LYS	C-N-CA	8.01	132.24	120.87
6	G	424	VAL	CA-C-N	8.01	130.85	120.44
6	G	424	VAL	C-N-CA	8.01	130.85	120.44
2	T	526	GLU	CA-C-N	8.00	130.84	120.44
2	T	526	GLU	C-N-CA	8.00	130.84	120.44
6	X	338	LYS	O-C-N	8.00	130.73	122.09
3	L	473	SER	N-CA-C	-8.00	104.40	114.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	338	LYS	O-C-N	8.00	130.73	122.09
4	V	535	LEU	CA-C-N	7.99	131.49	120.63
4	V	535	LEU	C-N-CA	7.99	131.49	120.63
4	M	543	ASN	O-C-N	7.98	130.29	122.07
3	U	473	SER	N-CA-C	-7.97	104.43	114.56
4	E	535	LEU	CA-C-N	7.97	131.47	120.63
4	E	535	LEU	C-N-CA	7.97	131.47	120.63
2	C	526	GLU	CA-C-N	7.97	130.80	120.44
2	C	526	GLU	C-N-CA	7.97	130.80	120.44
4	M	535	LEU	CA-C-N	7.97	131.47	120.63
4	M	535	LEU	C-N-CA	7.97	131.47	120.63
3	D	441	VAL	N-CA-C	-7.96	96.67	108.45
3	L	441	VAL	N-CA-C	-7.95	96.68	108.45
6	X	71	ASP	N-CA-C	-7.95	97.70	109.15
2	K	526	GLU	CA-C-N	7.95	130.77	120.44
2	K	526	GLU	C-N-CA	7.95	130.77	120.44
6	G	66	VAL	CA-C-O	-7.95	112.21	120.71
3	U	441	VAL	N-CA-C	-7.94	96.70	108.45
6	O	71	ASP	N-CA-C	-7.93	97.72	109.15
6	G	71	ASP	N-CA-C	-7.93	97.74	109.15
2	T	723	ALA	N-CA-C	-7.92	104.50	114.56
4	E	720	VAL	N-CA-C	-7.92	104.99	112.83
4	M	720	VAL	N-CA-C	-7.92	104.99	112.83
5	F	25	ARG	CA-C-O	7.92	129.15	120.92
6	G	338	LYS	O-C-N	7.91	130.63	122.09
4	V	720	VAL	N-CA-C	-7.91	105.00	112.83
2	T	447	LYS	CA-C-N	7.90	131.72	120.98
2	T	447	LYS	C-N-CA	7.90	131.72	120.98
2	C	447	LYS	CA-C-N	7.90	131.72	120.98
2	C	447	LYS	C-N-CA	7.90	131.72	120.98
2	K	723	ALA	N-CA-C	-7.89	104.54	114.56
5	N	25	ARG	CA-C-O	7.89	129.12	120.92
6	O	66	VAL	CA-C-O	-7.89	112.27	120.71
6	G	540	PRO	O-C-N	-7.89	112.15	121.46
6	O	207	ASP	CA-C-N	7.89	130.85	120.28
6	O	207	ASP	C-N-CA	7.89	130.85	120.28
6	X	540	PRO	O-C-N	-7.89	112.16	121.46
3	D	556	HIS	CA-C-O	7.88	129.07	120.71
2	K	447	LYS	CA-C-N	7.88	131.70	120.98
2	K	447	LYS	C-N-CA	7.88	131.70	120.98
2	C	723	ALA	N-CA-C	-7.88	104.56	114.56
3	L	556	HIS	CA-C-O	7.88	129.06	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	207	ASP	CA-C-N	7.87	130.83	120.28
6	X	207	ASP	C-N-CA	7.87	130.83	120.28
4	V	733	LYS	N-CA-C	-7.87	96.10	109.24
5	W	25	ARG	CA-C-O	7.87	129.10	120.92
3	L	705	ALA	N-CA-C	-7.86	103.25	112.92
6	X	66	VAL	CA-C-O	-7.86	112.30	120.71
6	O	540	PRO	O-C-N	-7.85	112.19	121.46
3	U	705	ALA	N-CA-C	-7.85	103.26	112.92
3	D	705	ALA	N-CA-C	-7.85	103.27	112.92
6	G	805	LYS	N-CA-C	-7.84	97.36	109.52
6	O	333	ASP	CA-C-N	7.84	130.79	120.28
6	O	333	ASP	C-N-CA	7.84	130.79	120.28
4	E	733	LYS	N-CA-C	-7.84	96.15	109.24
5	W	141	GLN	CA-C-N	7.84	130.44	120.56
5	W	141	GLN	C-N-CA	7.84	130.44	120.56
6	O	441	LYS	CA-C-N	7.84	131.57	120.28
6	O	441	LYS	C-N-CA	7.84	131.57	120.28
6	X	441	LYS	CA-C-N	7.84	131.56	120.28
6	X	441	LYS	C-N-CA	7.84	131.56	120.28
4	M	733	LYS	N-CA-C	-7.83	96.16	109.24
2	K	400	ALA	N-CA-C	-7.83	94.12	110.80
2	T	400	ALA	N-CA-C	-7.83	94.13	110.80
6	G	207	ASP	CA-C-N	7.83	130.77	120.28
6	G	207	ASP	C-N-CA	7.83	130.77	120.28
3	U	556	HIS	CA-C-O	7.83	129.00	120.71
6	G	790	LEU	N-CA-C	-7.82	98.69	109.71
6	O	790	LEU	N-CA-C	-7.82	98.69	109.71
6	X	805	LYS	N-CA-C	-7.82	97.40	109.52
3	U	232	VAL	CA-C-N	7.81	131.07	120.44
3	U	232	VAL	C-N-CA	7.81	131.07	120.44
4	M	364	ILE	CA-C-N	7.81	130.60	120.44
4	M	364	ILE	C-N-CA	7.81	130.60	120.44
6	O	805	LYS	N-CA-C	-7.81	97.41	109.52
2	C	400	ALA	N-CA-C	-7.81	94.17	110.80
6	X	790	LEU	N-CA-C	-7.81	98.70	109.71
4	V	364	ILE	CA-C-N	7.81	130.59	120.44
4	V	364	ILE	C-N-CA	7.81	130.59	120.44
7	P	48	PHE	N-CA-C	-7.80	97.03	109.59
3	D	232	VAL	CA-C-N	7.79	131.04	120.44
3	D	232	VAL	C-N-CA	7.79	131.04	120.44
4	E	364	ILE	CA-C-N	7.79	130.57	120.44
4	E	364	ILE	C-N-CA	7.79	130.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	48	PHE	N-CA-C	-7.79	97.05	109.59
5	N	141	GLN	CA-C-N	7.78	130.36	120.56
5	N	141	GLN	C-N-CA	7.78	130.36	120.56
5	N	49	PHE	CA-C-O	-7.78	112.66	120.82
5	W	49	PHE	CA-C-O	-7.77	112.66	120.82
4	E	266	VAL	CA-C-N	7.77	130.35	120.56
4	E	266	VAL	C-N-CA	7.77	130.35	120.56
3	L	232	VAL	CA-C-N	7.77	131.01	120.44
3	L	232	VAL	C-N-CA	7.77	131.01	120.44
3	L	631	LYS	CA-C-N	7.76	130.53	120.44
3	L	631	LYS	C-N-CA	7.76	130.53	120.44
3	D	631	LYS	CA-C-N	7.76	130.53	120.44
3	D	631	LYS	C-N-CA	7.76	130.53	120.44
4	M	530	PHE	N-CA-C	7.76	119.37	111.07
4	E	403	THR	CA-C-N	7.75	130.67	120.28
4	E	403	THR	C-N-CA	7.75	130.67	120.28
3	U	631	LYS	CA-C-N	7.75	130.52	120.44
3	U	631	LYS	C-N-CA	7.75	130.52	120.44
6	G	868	VAL	N-CA-C	-7.75	97.15	108.23
3	D	532	ASP	N-CA-C	-7.74	103.86	113.38
3	D	759	ARG	CA-C-N	7.74	130.50	120.44
3	D	759	ARG	C-N-CA	7.74	130.50	120.44
5	F	49	PHE	CA-C-O	-7.74	112.69	120.82
5	F	141	GLN	CA-C-N	7.74	130.31	120.56
5	F	141	GLN	C-N-CA	7.74	130.31	120.56
4	V	266	VAL	CA-C-N	7.74	130.31	120.56
4	V	266	VAL	C-N-CA	7.74	130.31	120.56
4	M	266	VAL	CA-C-N	7.74	130.31	120.56
4	M	266	VAL	C-N-CA	7.74	130.31	120.56
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	103.87	113.38
3	L	759	ARG	CA-C-N	7.73	130.49	120.44
3	L	759	ARG	C-N-CA	7.73	130.49	120.44
4	E	530	PHE	N-CA-C	7.73	119.34	111.07
6	O	287	ASP	N-CA-C	7.73	119.71	111.28
4	V	403	THR	CA-C-N	7.73	130.64	120.28
4	V	403	THR	C-N-CA	7.73	130.64	120.28
2	K	138	VAL	CA-C-N	7.73	132.05	120.31
2	K	138	VAL	C-N-CA	7.73	132.05	120.31
3	D	110	THR	N-CA-C	-7.72	103.88	113.38
7	Y	118	ALA	CA-C-N	7.72	133.11	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	Y	118	ALA	C-N-CA	7.72	133.11	122.07
2	T	138	VAL	CA-C-N	7.71	132.04	120.31
2	T	138	VAL	C-N-CA	7.71	132.04	120.31
6	X	868	VAL	N-CA-C	-7.71	97.20	108.23
7	H	118	ALA	CA-C-N	7.71	133.10	122.07
7	H	118	ALA	C-N-CA	7.71	133.10	122.07
3	L	110	THR	N-CA-C	-7.71	103.90	113.38
6	G	857	GLN	O-C-N	7.71	130.01	122.07
3	U	532	ASP	N-CA-C	-7.71	103.90	113.38
3	U	759	ARG	CA-C-N	7.71	130.46	120.44
3	U	759	ARG	C-N-CA	7.71	130.46	120.44
4	V	235	VAL	CA-C-N	7.71	132.03	120.31
4	V	235	VAL	C-N-CA	7.71	132.03	120.31
6	G	287	ASP	N-CA-C	7.71	119.68	111.28
6	O	857	GLN	O-C-N	7.71	130.01	122.07
4	M	545	GLY	CA-C-N	7.70	130.45	120.44
4	M	545	GLY	C-N-CA	7.70	130.45	120.44
2	C	138	VAL	CA-C-N	7.70	132.01	120.31
2	C	138	VAL	C-N-CA	7.70	132.01	120.31
6	X	287	ASP	N-CA-C	7.70	119.67	111.28
6	X	377	ASP	N-CA-C	7.70	119.75	111.36
6	X	966	THR	CA-C-O	-7.70	113.21	121.45
6	G	53	GLU	CA-C-N	7.70	132.06	121.05
6	G	53	GLU	C-N-CA	7.70	132.06	121.05
7	P	118	ALA	CA-C-N	7.70	133.08	122.07
7	P	118	ALA	C-N-CA	7.70	133.08	122.07
6	O	868	VAL	N-CA-C	-7.70	97.22	108.23
6	O	966	THR	CA-C-O	-7.70	113.22	121.45
4	E	545	GLY	CA-C-N	7.69	130.44	120.44
4	E	545	GLY	C-N-CA	7.69	130.44	120.44
4	V	530	PHE	N-CA-C	7.69	119.30	111.07
6	O	325	ILE	CA-C-O	7.69	128.94	120.95
6	X	857	GLN	O-C-N	7.68	129.98	122.07
6	G	857	GLN	CA-C-O	-7.68	112.75	120.82
6	X	53	GLU	CA-C-N	7.68	132.04	121.05
6	X	53	GLU	C-N-CA	7.68	132.04	121.05
4	E	235	VAL	CA-C-N	7.68	131.99	120.31
4	E	235	VAL	C-N-CA	7.68	131.99	120.31
6	O	857	GLN	CA-C-O	-7.68	112.75	120.82
6	G	325	ILE	CA-C-O	7.68	128.94	120.95
6	O	387	LEU	CA-C-N	7.68	130.57	120.28
6	O	387	LEU	C-N-CA	7.68	130.57	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	235	VAL	CA-C-N	7.68	131.98	120.31
4	M	235	VAL	C-N-CA	7.68	131.98	120.31
3	U	20	SER	CA-C-N	7.68	134.30	122.25
3	U	20	SER	C-N-CA	7.68	134.30	122.25
4	V	189	ASN	N-CA-C	-7.68	98.66	110.10
4	E	189	ASN	N-CA-C	-7.67	98.67	110.10
3	U	110	THR	N-CA-C	-7.67	103.94	113.38
4	E	861	SER	N-CA-C	-7.67	103.82	113.02
3	L	20	SER	CA-C-N	7.67	134.29	122.25
3	L	20	SER	C-N-CA	7.67	134.29	122.25
4	E	460	GLY	CA-C-N	7.67	130.87	120.44
4	E	460	GLY	C-N-CA	7.67	130.87	120.44
6	G	966	THR	CA-C-O	-7.67	113.24	121.45
5	F	38	VAL	O-C-N	7.67	129.31	121.87
6	O	466	CYS	N-CA-C	7.67	120.61	111.33
6	X	857	GLN	CA-C-O	-7.67	112.77	120.82
4	V	861	SER	N-CA-C	-7.66	103.83	113.02
6	O	53	GLU	CA-C-N	7.66	132.00	121.05
6	O	53	GLU	C-N-CA	7.66	132.00	121.05
4	V	678	THR	N-CA-C	-7.65	97.68	109.24
6	O	377	ASP	N-CA-C	7.65	119.70	111.36
4	V	545	GLY	CA-C-N	7.65	130.39	120.44
4	V	545	GLY	C-N-CA	7.65	130.39	120.44
6	G	466	CYS	N-CA-C	7.65	120.58	111.33
4	M	678	THR	N-CA-C	-7.65	97.69	109.24
4	M	861	SER	N-CA-C	-7.65	103.84	113.02
6	X	466	CYS	N-CA-C	7.65	120.58	111.33
4	E	678	THR	N-CA-C	-7.64	97.70	109.24
5	W	38	VAL	O-C-N	7.64	129.28	121.87
3	D	20	SER	CA-C-N	7.64	134.25	122.25
3	D	20	SER	C-N-CA	7.64	134.25	122.25
4	E	541	ALA	N-CA-C	-7.64	103.03	111.36
4	E	647	VAL	N-CA-C	-7.63	96.61	107.75
6	G	387	LEU	CA-C-N	7.63	130.50	120.28
6	G	387	LEU	C-N-CA	7.63	130.50	120.28
4	M	189	ASN	N-CA-C	-7.63	98.73	110.10
5	N	38	VAL	O-C-N	7.63	129.27	121.87
6	X	350	SER	N-CA-C	-7.63	101.05	112.04
6	X	333	ASP	CA-C-N	7.63	130.83	120.38
6	X	333	ASP	C-N-CA	7.63	130.83	120.38
7	Y	86	PHE	CA-C-O	-7.63	112.47	120.55
6	G	377	ASP	N-CA-C	7.62	119.67	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	325	ILE	CA-C-O	7.62	128.88	120.95
6	G	420	VAL	CA-C-N	7.62	130.49	120.28
6	G	420	VAL	C-N-CA	7.62	130.49	120.28
7	H	86	PHE	O-C-N	7.61	130.19	122.12
4	M	541	ALA	N-CA-C	-7.61	103.06	111.36
5	N	46	LYS	CA-C-N	7.61	130.33	120.44
5	N	46	LYS	C-N-CA	7.61	130.33	120.44
4	V	647	VAL	N-CA-C	-7.61	96.64	107.75
6	X	387	LEU	CA-C-N	7.61	130.48	120.28
6	X	387	LEU	C-N-CA	7.61	130.48	120.28
7	Y	86	PHE	O-C-N	7.61	130.19	122.12
7	P	86	PHE	O-C-N	7.61	130.19	122.12
5	W	46	LYS	CA-C-N	7.60	130.32	120.44
5	W	46	LYS	C-N-CA	7.60	130.32	120.44
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	350	SER	N-CA-C	-7.60	101.10	112.04
6	G	333	ASP	CA-C-N	7.60	130.79	120.38
6	G	333	ASP	C-N-CA	7.60	130.79	120.38
4	M	647	VAL	N-CA-C	-7.60	96.66	107.75
2	T	72	ASP	N-CA-C	-7.59	103.99	113.18
2	C	72	ASP	N-CA-C	-7.59	104.00	113.18
3	U	543	LEU	O-C-N	-7.59	114.57	123.22
4	V	541	ALA	N-CA-C	-7.59	103.09	111.36
2	C	375	ASN	N-CA-C	-7.58	105.98	114.62
6	X	420	VAL	CA-C-N	7.58	130.43	120.28
6	X	420	VAL	C-N-CA	7.58	130.43	120.28
2	K	72	ASP	N-CA-C	-7.57	104.02	113.18
6	O	420	VAL	CA-C-N	7.57	130.43	120.28
6	O	420	VAL	C-N-CA	7.57	130.43	120.28
3	D	543	LEU	O-C-N	-7.57	114.59	123.22
4	V	850	ASP	N-CA-C	-7.57	104.95	114.56
4	E	850	ASP	N-CA-C	-7.57	104.95	114.56
4	M	850	ASP	N-CA-C	-7.57	104.95	114.56
7	P	86	PHE	CA-C-O	-7.57	112.53	120.55
6	X	837	ILE	CA-C-N	7.57	131.46	120.71
6	X	837	ILE	C-N-CA	7.57	131.46	120.71
2	K	724	GLU	O-C-N	7.56	129.86	122.07
3	D	740	ALA	CA-C-N	7.56	130.26	120.44
3	D	740	ALA	C-N-CA	7.56	130.26	120.44
3	L	543	LEU	O-C-N	-7.56	114.60	123.22
6	O	350	SER	N-CA-C	-7.55	101.16	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	837	ILE	CA-C-N	7.55	131.43	120.71
6	O	837	ILE	C-N-CA	7.55	131.43	120.71
2	T	724	GLU	O-C-N	7.55	129.85	122.07
2	T	375	ASN	N-CA-C	-7.55	106.02	114.62
7	H	86	PHE	CA-C-O	-7.54	112.55	120.55
4	V	147	ALA	N-CA-C	7.54	119.58	111.36
2	K	375	ASN	N-CA-C	-7.54	106.02	114.62
3	D	799	PRO	CA-C-N	7.54	128.29	120.00
3	D	799	PRO	C-N-CA	7.54	128.29	120.00
4	M	147	ALA	N-CA-C	7.53	119.57	111.36
6	G	837	ILE	CA-C-N	7.53	131.40	120.71
6	G	837	ILE	C-N-CA	7.53	131.40	120.71
3	U	493	GLU	CA-C-N	7.53	130.36	120.28
3	U	493	GLU	C-N-CA	7.53	130.36	120.28
2	T	668	LEU	N-CA-C	-7.52	104.13	113.38
3	L	740	ALA	CA-C-N	7.52	130.22	120.44
3	L	740	ALA	C-N-CA	7.52	130.22	120.44
4	M	384	SER	CA-C-N	7.52	130.97	120.29
4	M	384	SER	C-N-CA	7.52	130.97	120.29
2	C	724	GLU	O-C-N	7.52	129.81	122.07
3	D	114	ILE	N-CA-C	-7.52	97.26	108.46
3	U	799	PRO	CA-C-N	7.52	128.27	120.00
3	U	799	PRO	C-N-CA	7.52	128.27	120.00
6	O	513	LYS	N-CA-C	-7.51	103.09	111.28
4	E	147	ALA	N-CA-C	7.51	119.54	111.36
3	L	493	GLU	CA-C-N	7.51	130.34	120.28
3	L	493	GLU	C-N-CA	7.51	130.34	120.28
3	U	740	ALA	CA-C-N	7.51	130.20	120.44
3	U	740	ALA	C-N-CA	7.51	130.20	120.44
2	K	668	LEU	N-CA-C	-7.50	104.15	113.38
4	M	62	GLY	O-C-N	-7.50	117.80	123.35
3	L	799	PRO	CA-C-N	7.50	128.25	120.00
3	L	799	PRO	C-N-CA	7.50	128.25	120.00
2	C	668	LEU	N-CA-C	-7.50	104.16	113.38
3	D	493	GLU	CA-C-N	7.50	130.33	120.28
3	D	493	GLU	C-N-CA	7.50	130.33	120.28
4	E	286	ALA	CA-C-N	7.50	129.21	119.84
4	E	286	ALA	C-N-CA	7.50	129.21	119.84
3	D	278	ALA	CA-C-O	-7.50	113.23	121.33
4	V	384	SER	CA-C-N	7.49	130.93	120.29
4	V	384	SER	C-N-CA	7.49	130.93	120.29
6	X	513	LYS	N-CA-C	-7.49	103.11	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	453	CYS	CA-C-O	-7.49	113.24	121.33
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	97.30	108.46
4	M	286	ALA	CA-C-N	7.49	129.20	119.84
4	M	286	ALA	C-N-CA	7.49	129.20	119.84
4	V	550	GLY	CA-C-N	7.48	135.83	121.54
4	V	550	GLY	C-N-CA	7.48	135.83	121.54
3	U	114	ILE	N-CA-C	-7.48	97.32	108.46
4	V	62	GLY	O-C-N	-7.48	117.82	123.35
6	X	902	TYR	N-CA-C	-7.48	105.33	114.75
2	C	709	ILE	CA-C-N	7.47	134.22	121.14
2	C	709	ILE	C-N-CA	7.47	134.22	121.14
2	C	748	ILE	CA-C-N	7.47	130.90	120.29
2	C	748	ILE	C-N-CA	7.47	130.90	120.29
4	E	384	SER	CA-C-N	7.47	130.91	120.29
4	E	384	SER	C-N-CA	7.47	130.91	120.29
2	T	709	ILE	CA-C-N	7.47	134.22	121.14
2	T	709	ILE	C-N-CA	7.47	134.22	121.14
4	M	550	GLY	CA-C-N	7.47	135.81	121.54
4	M	550	GLY	C-N-CA	7.47	135.81	121.54
2	T	748	ILE	CA-C-N	7.47	130.90	120.29
2	T	748	ILE	C-N-CA	7.47	130.90	120.29
3	U	278	ALA	CA-C-O	-7.47	113.26	121.33
6	G	513	LYS	N-CA-C	-7.47	103.14	111.28
2	K	453	CYS	CA-C-O	-7.47	113.26	121.33
3	U	457	LEU	CA-C-N	7.47	130.12	120.56
3	U	457	LEU	C-N-CA	7.47	130.12	120.56
6	G	576	LYS	N-CA-C	-7.47	103.30	113.30
3	L	278	ALA	CA-C-O	-7.47	113.27	121.33
3	U	129	ASP	N-CA-C	7.46	120.48	111.82
4	V	286	ALA	CA-C-N	7.46	129.17	119.84
4	V	286	ALA	C-N-CA	7.46	129.17	119.84
7	Y	48	PHE	N-CA-C	-7.46	97.06	109.07
2	K	709	ILE	CA-C-N	7.46	134.19	121.14
2	K	709	ILE	C-N-CA	7.46	134.19	121.14
6	G	902	TYR	N-CA-C	-7.46	105.35	114.75
4	M	561	ALA	N-CA-C	7.46	119.41	111.28
2	T	453	CYS	CA-C-O	-7.46	113.28	121.33
2	C	264	ILE	N-CA-C	-7.45	97.76	108.48
3	D	457	LEU	CA-C-N	7.45	130.09	120.56
3	D	457	LEU	C-N-CA	7.45	130.09	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	62	GLY	O-C-N	-7.45	117.84	123.35
3	L	111	GLN	CA-C-O	-7.45	113.42	120.94
3	L	457	LEU	CA-C-N	7.44	130.09	120.56
3	L	457	LEU	C-N-CA	7.44	130.09	120.56
4	V	460	GLY	CA-C-N	7.44	130.86	120.29
4	V	460	GLY	C-N-CA	7.44	130.86	120.29
6	O	576	LYS	N-CA-C	-7.44	103.33	113.30
4	E	561	ALA	N-CA-C	7.43	119.38	111.28
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
6	X	576	LYS	N-CA-C	-7.43	103.34	113.30
6	O	902	TYR	N-CA-C	-7.43	105.39	114.75
2	K	748	ILE	CA-C-N	7.43	130.84	120.29
2	K	748	ILE	C-N-CA	7.43	130.84	120.29
4	V	845	ARG	N-CA-C	-7.43	96.41	108.52
4	E	845	ARG	N-CA-C	-7.42	96.42	108.52
2	K	264	ILE	N-CA-C	-7.42	97.79	108.48
2	T	264	ILE	N-CA-C	-7.42	97.79	108.48
3	D	129	ASP	N-CA-C	7.41	120.42	111.82
4	M	329	LEU	N-CA-C	7.40	119.43	111.36
4	M	845	ARG	N-CA-C	-7.40	96.45	108.52
2	T	757	LEU	CA-C-N	7.40	130.20	120.28
2	T	757	LEU	C-N-CA	7.40	130.20	120.28
3	L	684	SER	N-CA-C	7.40	118.98	111.07
2	K	231	ILE	N-CA-C	-7.39	97.81	108.53
2	K	757	LEU	CA-C-N	7.39	130.18	120.28
2	K	757	LEU	C-N-CA	7.39	130.18	120.28
4	V	55	ILE	N-CA-C	7.39	117.47	110.53
4	V	561	ALA	N-CA-C	7.39	119.33	111.28
3	L	129	ASP	N-CA-C	7.38	120.38	111.82
4	V	211	VAL	CA-C-N	7.38	130.17	120.28
4	V	211	VAL	C-N-CA	7.38	130.17	120.28
3	U	111	GLN	CA-C-O	-7.38	113.49	120.94
6	X	287	ASP	CA-C-N	7.38	130.03	120.44
6	X	287	ASP	C-N-CA	7.38	130.03	120.44
4	E	329	LEU	N-CA-C	7.38	119.40	111.36
4	E	55	ILE	N-CA-C	7.38	117.46	110.53
6	O	287	ASP	CA-C-N	7.38	130.03	120.44
6	O	287	ASP	C-N-CA	7.38	130.03	120.44
4	M	55	ILE	N-CA-C	7.38	117.46	110.53
6	X	797	PHE	N-CA-C	-7.37	97.38	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	231	ILE	N-CA-C	-7.37	97.84	108.53
2	T	231	ILE	N-CA-C	-7.37	97.84	108.53
4	V	738	ASN	N-CA-C	-7.37	95.10	110.80
4	E	738	ASN	N-CA-C	-7.37	95.10	110.80
6	G	287	ASP	CA-C-N	7.37	130.02	120.44
6	G	287	ASP	C-N-CA	7.37	130.02	120.44
2	C	757	LEU	CA-C-N	7.37	130.15	120.28
2	C	757	LEU	C-N-CA	7.37	130.15	120.28
4	M	670	ASN	CA-C-O	-7.37	112.61	120.42
4	V	670	ASN	CA-C-O	-7.36	112.61	120.42
6	G	797	PHE	N-CA-C	-7.36	97.41	109.40
4	M	211	VAL	CA-C-N	7.36	130.14	120.28
4	M	211	VAL	C-N-CA	7.36	130.14	120.28
4	M	738	ASN	N-CA-C	-7.36	95.13	110.80
5	W	67	VAL	CA-C-O	7.36	128.11	120.39
6	O	797	PHE	N-CA-C	-7.35	97.41	109.40
3	L	104	CYS	CA-C-N	7.35	134.38	122.69
3	L	104	CYS	C-N-CA	7.35	134.38	122.69
3	D	111	GLN	CA-C-O	-7.35	113.52	120.94
5	F	121	LEU	CA-C-N	7.34	129.99	120.44
5	F	121	LEU	C-N-CA	7.34	129.99	120.44
4	E	670	ASN	CA-C-O	-7.34	112.64	120.42
3	L	744	LEU	O-C-N	7.34	129.90	122.12
3	U	744	LEU	O-C-N	7.34	129.90	122.12
4	E	211	VAL	CA-C-N	7.33	130.10	120.28
4	E	211	VAL	C-N-CA	7.33	130.10	120.28
3	U	684	SER	N-CA-C	7.33	118.91	111.07
3	D	682	GLN	CA-C-N	7.32	130.09	120.28
3	D	682	GLN	C-N-CA	7.32	130.09	120.28
3	D	684	SER	N-CA-C	7.32	118.91	111.07
5	N	67	VAL	CA-C-O	7.32	128.08	120.39
3	D	744	LEU	O-C-N	7.32	129.88	122.12
5	F	67	VAL	CA-C-O	7.32	128.08	120.39
3	U	682	GLN	CA-C-N	7.32	130.09	120.28
3	U	682	GLN	C-N-CA	7.32	130.09	120.28
4	E	772	PHE	CA-C-O	-7.32	112.67	120.42
4	M	295	PHE	N-CA-C	7.32	119.25	111.28
5	N	121	LEU	CA-C-N	7.32	129.95	120.44
5	N	121	LEU	C-N-CA	7.32	129.95	120.44
4	M	319	PRO	CA-C-N	7.31	130.08	120.28
4	M	319	PRO	C-N-CA	7.31	130.08	120.28
5	W	121	LEU	CA-C-N	7.31	129.95	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	W	121	LEU	C-N-CA	7.31	129.95	120.44
6	G	788	SER	CA-C-O	-7.31	110.14	120.16
6	O	788	SER	CA-C-O	-7.30	110.16	120.16
2	C	694	TYR	CA-C-N	7.30	130.66	120.29
2	C	694	TYR	C-N-CA	7.30	130.66	120.29
3	U	401	SER	CA-C-O	7.30	126.60	119.08
6	X	195	MET	N-CA-C	-7.30	96.14	108.26
6	X	788	SER	CA-C-O	-7.30	110.16	120.16
4	E	543	ASN	CA-C-O	-7.30	113.16	120.82
2	K	694	TYR	CA-C-N	7.30	130.66	120.29
2	K	694	TYR	C-N-CA	7.30	130.66	120.29
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
2	T	694	TYR	CA-C-N	7.30	130.65	120.29
2	T	694	TYR	C-N-CA	7.30	130.65	120.29
6	G	195	MET	N-CA-C	-7.30	96.15	108.26
2	T	223	GLY	N-CA-C	-7.30	98.42	111.19
4	E	295	PHE	N-CA-C	7.29	119.23	111.28
4	V	772	PHE	CA-C-O	-7.29	112.69	120.42
2	C	223	GLY	N-CA-C	-7.29	98.43	111.19
4	V	295	PHE	N-CA-C	7.29	119.23	111.28
6	X	459	LEU	CA-C-O	-7.29	112.82	120.55
4	M	772	PHE	CA-C-O	-7.29	112.69	120.42
4	E	319	PRO	CA-C-N	7.29	130.05	120.28
4	E	319	PRO	C-N-CA	7.29	130.05	120.28
2	K	223	GLY	N-CA-C	-7.29	98.44	111.19
4	V	319	PRO	CA-C-N	7.28	130.04	120.28
4	V	319	PRO	C-N-CA	7.28	130.04	120.28
4	M	543	ASN	CA-C-O	-7.28	113.17	120.82
2	C	98	THR	N-CA-C	-7.28	97.56	108.99
4	M	330	GLU	N-CA-C	7.28	119.29	111.36
3	L	401	SER	CA-C-O	7.27	126.57	119.08
2	K	98	THR	N-CA-C	-7.27	97.57	108.99
6	O	195	MET	N-CA-C	-7.26	96.20	108.26
6	G	499	GLU	N-CA-C	7.26	126.26	110.80
2	T	98	THR	N-CA-C	-7.26	97.59	108.99
4	V	543	ASN	CA-C-O	-7.26	113.20	120.82
3	D	401	SER	CA-C-O	7.25	126.55	119.08
6	O	459	LEU	CA-C-O	-7.25	112.86	120.55
6	X	496	GLU	CA-C-O	-7.25	112.73	120.42
6	X	499	GLU	N-CA-C	7.25	126.25	110.80
3	U	771	LYS	N-CA-C	7.25	118.82	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	330	GLU	N-CA-C	7.24	119.25	111.36
3	D	771	LYS	N-CA-C	7.24	118.82	111.07
6	G	459	LEU	CA-C-O	-7.24	112.88	120.55
3	L	771	LYS	N-CA-C	7.24	118.82	111.07
6	O	499	GLU	N-CA-C	7.24	126.22	110.80
6	O	561	LEU	CA-C-N	7.24	129.98	120.28
6	O	561	LEU	C-N-CA	7.24	129.98	120.28
6	G	561	LEU	CA-C-N	7.24	129.98	120.28
6	G	561	LEU	C-N-CA	7.24	129.98	120.28
6	X	105	TYR	N-CA-C	-7.24	103.55	112.88
4	M	386	LEU	CA-C-O	-7.23	113.25	120.70
2	T	534	ALA	CA-C-N	7.23	132.98	123.00
2	T	534	ALA	C-N-CA	7.23	132.98	123.00
6	O	105	TYR	N-CA-C	-7.23	103.56	112.88
6	G	496	GLU	CA-C-O	-7.22	112.77	120.42
4	E	386	LEU	CA-C-O	-7.22	113.27	120.70
2	C	571	THR	N-CA-C	-7.22	103.49	111.36
2	K	534	ALA	CA-C-N	7.22	132.96	123.00
2	K	534	ALA	C-N-CA	7.22	132.96	123.00
6	O	496	GLU	CA-C-O	-7.21	112.77	120.42
4	E	330	GLU	N-CA-C	7.21	119.22	111.36
6	G	784	VAL	N-CA-C	-7.21	105.69	112.83
2	C	534	ALA	CA-C-N	7.20	132.94	123.00
2	C	534	ALA	C-N-CA	7.20	132.94	123.00
2	K	571	THR	N-CA-C	-7.20	103.51	111.36
6	G	105	TYR	N-CA-C	-7.20	103.60	112.88
6	X	784	VAL	N-CA-C	-7.20	105.71	112.83
2	K	144	HIS	N-CA-C	-7.19	101.68	110.31
6	X	561	LEU	CA-C-N	7.19	129.92	120.28
6	X	561	LEU	C-N-CA	7.19	129.92	120.28
4	M	62	GLY	CA-C-N	7.19	129.92	120.28
4	M	62	GLY	C-N-CA	7.19	129.92	120.28
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	-7.19	113.30	120.70
3	L	422	LYS	N-CA-C	-7.18	103.67	113.30
4	M	171	PHE	CA-C-N	7.18	129.90	120.28
4	M	171	PHE	C-N-CA	7.18	129.90	120.28
6	G	586	MET	CA-C-O	-7.17	112.82	120.42
2	C	144	HIS	N-CA-C	-7.17	101.70	110.31
2	T	144	HIS	N-CA-C	-7.17	101.70	110.31
4	E	62	GLY	CA-C-N	7.17	129.88	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	62	GLY	C-N-CA	7.17	129.88	120.28
6	O	479	VAL	N-CA-C	7.17	117.96	110.72
6	X	479	VAL	N-CA-C	7.16	117.95	110.72
2	T	571	THR	N-CA-C	-7.16	103.55	111.36
4	E	171	PHE	CA-C-N	7.16	129.88	120.28
4	E	171	PHE	C-N-CA	7.16	129.88	120.28
6	X	586	MET	CA-C-O	-7.16	112.83	120.42
4	E	698	LEU	O-C-N	-7.16	114.81	121.32
3	U	422	LYS	N-CA-C	-7.16	103.71	113.30
3	D	422	LYS	N-CA-C	-7.16	103.71	113.30
3	D	171	GLN	CA-C-N	7.15	129.86	120.28
3	D	171	GLN	C-N-CA	7.15	129.86	120.28
6	O	784	VAL	N-CA-C	-7.15	105.75	112.83
6	G	587	LEU	CA-C-O	-7.15	112.97	120.55
3	L	171	GLN	CA-C-N	7.15	129.86	120.28
3	L	171	GLN	C-N-CA	7.15	129.86	120.28
4	V	171	PHE	CA-C-N	7.15	129.86	120.28
4	V	171	PHE	C-N-CA	7.15	129.86	120.28
7	P	78	GLU	N-CA-C	7.14	119.07	111.28
6	O	586	MET	CA-C-O	-7.14	112.85	120.42
3	D	394	PHE	N-CA-C	-7.14	96.92	109.06
6	G	479	VAL	N-CA-C	7.14	117.93	110.72
3	U	394	PHE	N-CA-C	-7.14	96.93	109.06
7	Y	78	GLU	N-CA-C	7.14	119.06	111.28
2	C	647	THR	CA-C-N	7.13	129.84	120.28
2	C	647	THR	C-N-CA	7.13	129.84	120.28
3	L	394	PHE	N-CA-C	-7.13	96.94	109.06
3	U	171	GLN	CA-C-N	7.13	129.83	120.28
3	U	171	GLN	C-N-CA	7.13	129.83	120.28
4	M	181	ALA	CA-C-N	7.13	129.83	120.28
4	M	181	ALA	C-N-CA	7.13	129.83	120.28
4	M	698	LEU	O-C-N	-7.13	114.83	121.32
6	O	587	LEU	CA-C-O	-7.13	112.99	120.55
6	X	587	LEU	CA-C-O	-7.13	113.00	120.55
3	U	656	ILE	CA-C-N	7.12	129.83	120.28
3	U	656	ILE	C-N-CA	7.12	129.83	120.28
3	D	326	ASN	N-CA-C	-7.12	98.76	109.94
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
2	K	647	THR	CA-C-N	7.12	129.82	120.28
2	K	647	THR	C-N-CA	7.12	129.82	120.28
3	D	656	ILE	CA-C-N	7.11	129.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	656	ILE	C-N-CA	7.11	129.81	120.28
3	L	155	ASN	CA-C-O	7.11	128.12	119.38
4	V	181	ALA	CA-C-N	7.11	129.81	120.28
4	V	181	ALA	C-N-CA	7.11	129.81	120.28
2	K	296	VAL	CA-C-N	7.11	133.72	122.21
2	K	296	VAL	C-N-CA	7.11	133.72	122.21
6	O	240	SER	CA-C-N	7.11	129.80	120.28
6	O	240	SER	C-N-CA	7.11	129.80	120.28
3	U	155	ASN	CA-C-O	7.10	128.12	119.38
3	L	326	ASN	N-CA-C	-7.10	98.79	109.94
7	H	78	GLU	N-CA-C	7.10	119.02	111.28
2	T	718	LYS	CA-C-N	7.10	130.37	120.29
2	T	718	LYS	C-N-CA	7.10	130.37	120.29
4	M	632	SER	N-CA-C	-7.09	98.52	109.52
4	E	181	ALA	CA-C-N	7.09	129.78	120.28
4	E	181	ALA	C-N-CA	7.09	129.78	120.28
4	M	857	THR	N-CA-C	-7.09	97.84	109.40
2	C	296	VAL	CA-C-N	7.09	133.69	122.21
2	C	296	VAL	C-N-CA	7.09	133.69	122.21
2	C	806	THR	N-CA-C	-7.09	104.63	113.28
3	D	155	ASN	CA-C-O	7.09	128.10	119.38
3	L	118	SER	N-CA-C	-7.09	98.58	109.14
2	T	296	VAL	CA-C-N	7.09	133.70	122.21
2	T	296	VAL	C-N-CA	7.09	133.70	122.21
2	C	195	ALA	N-CA-C	-7.09	102.97	111.69
2	T	647	THR	CA-C-N	7.09	129.78	120.28
2	T	647	THR	C-N-CA	7.09	129.78	120.28
3	U	326	ASN	N-CA-C	-7.09	98.81	109.94
2	K	718	LYS	CA-C-N	7.08	130.35	120.29
2	K	718	LYS	C-N-CA	7.08	130.35	120.29
2	T	195	ALA	N-CA-C	-7.08	102.98	111.69
2	T	806	THR	N-CA-C	-7.08	104.64	113.28
3	U	118	SER	N-CA-C	-7.08	98.59	109.14
6	X	240	SER	CA-C-N	7.08	129.77	120.28
6	X	240	SER	C-N-CA	7.08	129.77	120.28
6	G	240	SER	CA-C-N	7.07	129.76	120.28
6	G	240	SER	C-N-CA	7.07	129.76	120.28
2	K	482	THR	CA-C-N	7.07	132.67	120.58
2	K	482	THR	C-N-CA	7.07	132.67	120.58
2	K	806	THR	N-CA-C	-7.07	104.65	113.28
2	T	322	GLU	CA-C-O	-7.07	113.19	121.46
4	V	698	LEU	O-C-N	-7.07	114.89	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	322	GLU	CA-C-O	-7.07	113.19	121.46
6	O	150	TYR	N-CA-C	-7.07	103.66	111.36
2	T	482	THR	CA-C-N	7.07	132.67	120.58
2	T	482	THR	C-N-CA	7.07	132.67	120.58
6	X	862	PHE	CA-C-N	7.07	131.42	120.75
6	X	862	PHE	C-N-CA	7.07	131.42	120.75
6	O	862	PHE	CA-C-N	7.07	131.42	120.75
6	O	862	PHE	C-N-CA	7.07	131.42	120.75
3	D	118	SER	N-CA-C	-7.06	98.62	109.14
2	C	482	THR	CA-C-N	7.06	132.65	120.58
2	C	482	THR	C-N-CA	7.06	132.65	120.58
4	V	632	SER	N-CA-C	-7.06	98.58	109.52
2	C	322	GLU	CA-C-O	-7.05	113.21	121.46
3	L	195	SER	N-CA-C	7.05	120.45	110.50
3	L	656	ILE	CA-C-N	7.05	129.73	120.28
3	L	656	ILE	C-N-CA	7.05	129.73	120.28
3	U	66	VAL	CA-C-N	7.05	129.73	120.28
3	U	66	VAL	C-N-CA	7.05	129.73	120.28
5	F	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	195	SER	N-CA-C	7.05	120.44	110.50
2	K	195	ALA	N-CA-C	-7.05	103.02	111.69
4	E	632	SER	N-CA-C	-7.04	98.60	109.52
2	T	128	VAL	N-CA-C	7.04	117.84	110.72
3	D	66	VAL	CA-C-N	7.04	129.72	120.28
3	D	66	VAL	C-N-CA	7.04	129.72	120.28
3	L	66	VAL	CA-C-N	7.04	129.72	120.28
3	L	66	VAL	C-N-CA	7.04	129.72	120.28
2	T	173	SER	CA-C-N	7.04	128.65	119.84
2	T	173	SER	C-N-CA	7.04	128.65	119.84
4	E	857	THR	N-CA-C	-7.04	97.93	109.40
2	K	128	VAL	N-CA-C	7.04	117.83	110.72
6	O	42	LEU	O-C-N	-7.04	114.66	122.12
4	V	267	VAL	CA-C-N	7.04	129.59	120.44
4	V	267	VAL	C-N-CA	7.04	129.59	120.44
6	G	862	PHE	CA-C-N	7.03	131.37	120.75
6	G	862	PHE	C-N-CA	7.03	131.37	120.75
3	D	465	PRO	CA-C-N	7.03	132.45	120.71
3	D	465	PRO	C-N-CA	7.03	132.45	120.71
2	C	128	VAL	N-CA-C	7.03	117.82	110.72
3	L	630	PHE	CA-C-N	7.03	130.27	120.29
3	L	630	PHE	C-N-CA	7.03	130.27	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	652	GLY	N-CA-C	-7.03	105.38	115.64
6	G	318	LEU	CA-C-N	7.03	129.69	120.28
6	G	318	LEU	C-N-CA	7.03	129.69	120.28
3	U	195	SER	N-CA-C	7.03	120.41	110.50
3	U	465	PRO	CA-C-N	7.03	132.44	120.71
3	U	465	PRO	C-N-CA	7.03	132.44	120.71
3	U	652	GLY	N-CA-C	-7.03	105.38	115.64
5	W	38	VAL	CA-C-O	-7.03	113.64	120.95
2	K	173	SER	CA-C-N	7.02	128.62	119.84
2	K	173	SER	C-N-CA	7.02	128.62	119.84
5	N	38	VAL	CA-C-O	-7.02	113.65	120.95
3	L	465	PRO	CA-C-N	7.02	132.44	120.71
3	L	465	PRO	C-N-CA	7.02	132.44	120.71
6	X	42	LEU	O-C-N	-7.02	114.68	122.12
3	D	128	TRP	CA-C-O	7.01	127.98	120.55
6	G	42	LEU	O-C-N	-7.01	114.68	122.12
3	D	652	GLY	N-CA-C	-7.01	105.40	115.64
3	D	630	PHE	CA-C-N	7.00	130.24	120.29
3	D	630	PHE	C-N-CA	7.00	130.24	120.29
2	C	173	SER	CA-C-N	7.00	128.59	119.84
2	C	173	SER	C-N-CA	7.00	128.59	119.84
6	X	320	ASP	CA-C-N	7.00	129.54	120.44
6	X	320	ASP	C-N-CA	7.00	129.54	120.44
4	M	267	VAL	CA-C-N	7.00	129.54	120.44
4	M	267	VAL	C-N-CA	7.00	129.54	120.44
6	O	318	LEU	CA-C-N	7.00	129.66	120.28
6	O	318	LEU	C-N-CA	7.00	129.66	120.28
3	U	630	PHE	CA-C-N	6.99	130.22	120.29
3	U	630	PHE	C-N-CA	6.99	130.22	120.29
4	E	131	ILE	CA-C-N	6.99	130.80	120.87
4	E	131	ILE	C-N-CA	6.99	130.80	120.87
4	M	131	ILE	CA-C-N	6.99	130.79	120.87
4	M	131	ILE	C-N-CA	6.99	130.79	120.87
2	T	323	ARG	CA-C-N	6.99	127.16	120.31
2	T	323	ARG	C-N-CA	6.99	127.16	120.31
3	U	128	TRP	CA-C-O	6.99	127.96	120.55
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
2	C	323	ARG	CA-C-N	6.98	127.15	120.31
2	C	323	ARG	C-N-CA	6.98	127.15	120.31
2	C	280	LYS	CA-C-O	6.98	126.51	118.55
3	D	526	THR	N-CA-C	-6.98	98.56	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	47	ILE	CA-C-O	-6.98	113.69	120.95
6	G	952	ALA	CA-C-O	6.98	127.95	120.55
6	O	419	ASP	CA-C-O	6.98	127.95	120.55
3	L	621	VAL	CA-C-N	6.97	129.62	120.28
3	L	621	VAL	C-N-CA	6.97	129.62	120.28
3	L	128	TRP	CA-C-O	6.97	127.94	120.55
3	L	526	THR	N-CA-C	-6.97	98.57	108.96
6	X	318	LEU	CA-C-N	6.97	129.62	120.28
6	X	318	LEU	C-N-CA	6.97	129.62	120.28
6	X	503	GLU	N-CA-C	-6.97	95.96	110.80
2	T	1178	ARG	CA-C-N	6.97	128.85	120.14
2	T	1178	ARG	C-N-CA	6.97	128.85	120.14
6	G	503	GLU	N-CA-C	-6.96	95.97	110.80
3	U	526	THR	N-CA-C	-6.96	98.58	108.96
4	M	663	PHE	N-CA-C	-6.96	97.06	108.41
2	C	396	ILE	N-CA-C	6.96	122.70	112.61
2	K	396	ILE	N-CA-C	6.96	122.70	112.61
3	D	621	VAL	CA-C-N	6.96	129.61	120.28
3	D	621	VAL	C-N-CA	6.96	129.61	120.28
6	O	503	GLU	N-CA-C	-6.96	95.98	110.80
2	C	117	ILE	N-CA-C	-6.96	98.10	108.12
4	E	267	VAL	CA-C-N	6.96	129.48	120.44
4	E	267	VAL	C-N-CA	6.96	129.48	120.44
6	G	419	ASP	CA-C-O	6.96	127.92	120.55
3	U	621	VAL	CA-C-N	6.96	129.60	120.28
3	U	621	VAL	C-N-CA	6.96	129.60	120.28
4	V	609	ARG	N-CA-C	-6.95	103.70	111.28
2	K	117	ILE	N-CA-C	-6.95	98.11	108.12
2	K	323	ARG	CA-C-N	6.95	127.12	120.31
2	K	323	ARG	C-N-CA	6.95	127.12	120.31
2	T	396	ILE	N-CA-C	6.95	122.69	112.61
6	X	952	ALA	CA-C-O	6.95	127.92	120.55
4	V	131	ILE	CA-C-N	6.95	130.73	120.87
4	V	131	ILE	C-N-CA	6.95	130.73	120.87
6	G	320	ASP	CA-C-N	6.95	129.47	120.44
6	G	320	ASP	C-N-CA	6.95	129.47	120.44
2	K	1178	ARG	CA-C-N	6.94	128.82	120.14
2	K	1178	ARG	C-N-CA	6.94	128.82	120.14
4	V	663	PHE	N-CA-C	-6.94	97.10	108.41
7	Y	90	ILE	O-C-N	-6.94	115.98	120.42
6	O	952	ALA	CA-C-O	6.94	127.90	120.55
4	E	149	VAL	CA-C-N	6.94	130.68	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	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	C	559	GLY	CA-C-O	-6.93	114.88	121.19
6	G	47	ILE	CA-C-O	-6.93	113.74	120.95
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
6	G	800	ILE	O-C-N	-6.93	115.69	123.10
6	X	47	ILE	CA-C-O	-6.92	113.75	120.95
4	M	348	LEU	CA-C-N	6.92	129.56	120.28
4	M	348	LEU	C-N-CA	6.92	129.56	120.28
4	E	609	ARG	N-CA-C	-6.92	103.73	111.28
4	M	609	ARG	N-CA-C	-6.92	103.74	111.28
2	T	117	ILE	N-CA-C	-6.92	98.16	108.12
6	X	419	ASP	CA-C-O	6.92	127.88	120.55
2	K	280	LYS	CA-C-O	6.92	126.44	118.55
2	T	280	LYS	CA-C-O	6.92	126.44	118.55
4	E	605	VAL	CA-C-N	6.91	131.79	120.94
4	E	605	VAL	C-N-CA	6.91	131.79	120.94
7	P	90	ILE	O-C-N	-6.91	116.00	120.42
4	E	775	ALA	CA-C-N	6.90	129.41	120.44
4	E	775	ALA	C-N-CA	6.90	129.41	120.44
2	K	559	GLY	CA-C-O	-6.90	114.91	121.19
4	V	348	LEU	CA-C-N	6.90	129.53	120.28
4	V	348	LEU	C-N-CA	6.90	129.53	120.28
4	M	149	VAL	CA-C-N	6.90	130.63	120.90
4	M	149	VAL	C-N-CA	6.90	130.63	120.90
3	U	152	PRO	N-CA-C	-6.90	106.71	114.92
3	D	369	VAL	N-CA-C	-6.89	98.46	108.11
6	O	800	ILE	O-C-N	-6.89	115.72	123.10
4	V	775	ALA	CA-C-N	6.89	129.40	120.44
4	V	775	ALA	C-N-CA	6.89	129.40	120.44
6	G	945	ARG	CA-C-O	6.89	128.68	121.38
4	E	348	LEU	CA-C-N	6.89	129.51	120.28
4	E	348	LEU	C-N-CA	6.89	129.51	120.28
6	G	150	TYR	N-CA-C	-6.89	103.70	111.14
4	V	605	VAL	CA-C-N	6.89	131.75	120.94
4	V	605	VAL	C-N-CA	6.89	131.75	120.94
4	M	510	LEU	CA-C-O	-6.88	113.59	120.82
6	X	945	ARG	CA-C-O	6.88	128.68	121.38
4	M	605	VAL	CA-C-N	6.88	131.74	120.94
4	M	605	VAL	C-N-CA	6.88	131.74	120.94
2	T	652	ALA	N-CA-C	6.88	118.78	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	121	LEU	CA-C-O	-6.87	113.61	120.82
6	O	945	ARG	CA-C-O	6.87	128.66	121.38
3	L	152	PRO	N-CA-C	-6.87	106.75	114.92
3	U	369	VAL	N-CA-C	-6.87	98.49	108.11
7	H	90	ILE	O-C-N	-6.87	116.03	120.42
2	K	652	ALA	N-CA-C	6.87	118.76	111.28
5	W	121	LEU	CA-C-O	-6.87	113.61	120.82
6	X	150	TYR	N-CA-C	-6.87	103.72	111.14
3	D	152	PRO	N-CA-C	-6.86	106.75	114.92
4	E	391	PRO	N-CA-C	6.86	126.59	112.47
2	K	630	GLN	N-CA-C	-6.86	96.19	110.80
4	M	391	PRO	N-CA-C	6.86	126.59	112.47
4	V	510	LEU	CA-C-O	-6.86	113.62	120.82
6	X	318	LEU	N-CA-C	6.86	125.41	110.80
5	N	121	LEU	CA-C-O	-6.86	113.62	120.82
6	X	800	ILE	O-C-N	-6.86	115.76	123.10
4	E	510	LEU	CA-C-O	-6.85	113.62	120.82
4	V	391	PRO	N-CA-C	6.85	126.58	112.47
6	G	318	LEU	N-CA-C	6.85	125.39	110.80
3	L	369	VAL	N-CA-C	-6.85	98.52	108.11
6	O	953	LEU	CA-C-O	-6.85	113.29	120.55
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
6	O	318	LEU	N-CA-C	6.85	125.38	110.80
2	T	608	TYR	CA-C-N	6.84	129.34	120.44
2	T	608	TYR	C-N-CA	6.84	129.34	120.44
4	M	775	ALA	CA-C-N	6.84	129.33	120.44
4	M	775	ALA	C-N-CA	6.84	129.33	120.44
2	C	630	GLN	N-CA-C	-6.83	96.24	110.80
2	K	608	TYR	CA-C-N	6.83	129.32	120.44
2	K	608	TYR	C-N-CA	6.83	129.32	120.44
4	M	285	LEU	O-C-N	-6.83	114.12	122.25
6	X	953	LEU	CA-C-O	-6.83	113.31	120.55
6	G	750	ASN	CA-C-N	6.83	131.82	122.19
6	G	750	ASN	C-N-CA	6.83	131.82	122.19
5	N	114	LEU	CA-C-O	-6.83	113.65	120.82
2	T	559	GLY	CA-C-O	-6.83	114.98	121.19
4	V	285	LEU	O-C-N	-6.83	114.13	122.25
6	X	497	ALA	CA-C-O	-6.83	113.18	120.42
2	T	630	GLN	N-CA-C	-6.82	96.27	110.80
6	G	953	LEU	CA-C-O	-6.82	113.32	120.55
6	O	750	ASN	CA-C-N	6.82	131.81	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	750	ASN	C-N-CA	6.82	131.81	122.19
6	O	943	ARG	N-CA-C	-6.82	98.12	109.24
6	X	943	ARG	N-CA-C	-6.82	98.12	109.24
2	C	652	ALA	N-CA-C	6.82	118.71	111.28
6	O	402	ILE	CA-C-O	-6.82	114.12	118.69
4	E	270	ALA	N-CA-C	6.82	118.50	111.14
4	E	853	THR	N-CA-C	-6.82	98.73	109.50
4	E	285	LEU	O-C-N	-6.81	114.14	122.25
5	W	114	LEU	CA-C-O	-6.81	113.67	120.82
4	M	270	ALA	N-CA-C	6.81	118.50	111.14
2	T	770	GLU	CA-C-N	6.81	129.40	120.28
2	T	770	GLU	C-N-CA	6.81	129.40	120.28
4	V	270	ALA	N-CA-C	6.80	118.49	111.14
6	G	497	ALA	CA-C-O	-6.80	113.21	120.42
3	U	396	TRP	N-CA-C	-6.80	99.50	110.32
6	X	750	ASN	CA-C-N	6.80	131.78	122.19
6	X	750	ASN	C-N-CA	6.80	131.78	122.19
6	G	170	ILE	CA-C-O	-6.80	110.84	119.95
3	D	67	ALA	CA-C-N	6.80	129.39	120.28
3	D	67	ALA	C-N-CA	6.80	129.39	120.28
6	G	229	GLU	CA-C-N	6.80	134.52	121.54
6	G	229	GLU	C-N-CA	6.80	134.52	121.54
4	M	853	THR	N-CA-C	-6.80	98.76	109.50
3	L	396	TRP	N-CA-C	-6.79	99.52	110.32
6	O	170	ILE	CA-C-O	-6.79	110.84	119.95
6	X	540	PRO	N-CA-C	6.79	118.99	110.70
6	O	851	THR	N-CA-C	-6.79	100.17	109.95
4	V	354	GLU	CA-C-N	6.79	129.27	120.44
4	V	354	GLU	C-N-CA	6.79	129.27	120.44
6	X	170	ILE	CA-C-O	-6.79	110.85	119.95
6	O	497	ALA	CA-C-O	-6.79	113.22	120.42
4	V	853	THR	N-CA-C	-6.79	98.78	109.50
3	D	302	GLU	N-CA-C	-6.78	105.56	114.31
5	F	114	LEU	CA-C-O	-6.78	113.70	120.82
3	L	67	ALA	CA-C-N	6.78	129.37	120.28
3	L	67	ALA	C-N-CA	6.78	129.37	120.28
3	U	67	ALA	CA-C-N	6.78	129.37	120.28
3	U	67	ALA	C-N-CA	6.78	129.37	120.28
6	G	943	ARG	N-CA-C	-6.78	98.19	109.24
2	C	693	CYS	O-C-N	6.78	129.41	122.09
4	E	497	LYS	CA-C-N	6.78	129.36	120.28
4	E	497	LYS	C-N-CA	6.78	129.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	354	GLU	CA-C-N	6.78	129.25	120.44
4	E	354	GLU	C-N-CA	6.78	129.25	120.44
2	K	739	LEU	N-CA-C	-6.78	99.92	110.42
6	O	229	GLU	CA-C-N	6.78	134.48	121.54
6	O	229	GLU	C-N-CA	6.78	134.48	121.54
6	O	493	ILE	CA-C-O	-6.78	113.90	120.95
2	T	739	LEU	N-CA-C	-6.78	99.92	110.42
6	X	851	THR	N-CA-C	-6.78	100.19	109.95
4	M	354	GLU	CA-C-N	6.77	129.25	120.44
4	M	354	GLU	C-N-CA	6.77	129.25	120.44
2	T	693	CYS	O-C-N	6.77	129.41	122.09
2	C	739	LEU	N-CA-C	-6.77	99.92	110.42
2	C	770	GLU	CA-C-N	6.77	129.35	120.28
2	C	770	GLU	C-N-CA	6.77	129.35	120.28
6	X	229	GLU	CA-C-N	6.77	134.48	121.54
6	X	229	GLU	C-N-CA	6.77	134.48	121.54
2	C	228	GLN	CA-C-O	6.77	129.38	121.46
6	O	558	ALA	N-CA-C	-6.77	96.38	110.80
6	X	558	ALA	N-CA-C	-6.77	96.38	110.80
4	E	258	CYS	N-CA-C	-6.77	100.21	109.95
2	K	228	GLN	CA-C-O	6.77	129.38	121.46
3	D	396	TRP	N-CA-C	-6.77	99.56	110.32
6	G	402	ILE	CA-C-O	-6.77	114.16	118.69
6	G	540	PRO	N-CA-C	6.76	118.95	110.70
4	V	258	CYS	N-CA-C	-6.76	100.21	109.95
6	G	558	ALA	N-CA-C	-6.76	96.40	110.80
6	O	540	PRO	N-CA-C	6.76	118.94	110.70
4	M	497	LYS	CA-C-N	6.75	129.33	120.28
4	M	497	LYS	C-N-CA	6.75	129.33	120.28
2	T	243	ASP	N-CA-C	-6.75	98.83	109.50
3	U	613	ILE	N-CA-C	-6.75	94.29	108.88
6	G	851	THR	N-CA-C	-6.75	100.23	109.95
4	V	497	LYS	CA-C-N	6.75	129.32	120.28
4	V	497	LYS	C-N-CA	6.75	129.32	120.28
6	X	493	ILE	CA-C-O	-6.74	113.94	120.95
2	K	243	ASP	N-CA-C	-6.74	98.85	109.50
3	D	613	ILE	N-CA-C	-6.74	94.33	108.88
4	M	447	GLU	CA-C-N	6.74	134.40	121.54
4	M	447	GLU	C-N-CA	6.74	134.40	121.54
2	K	770	GLU	CA-C-N	6.73	129.30	120.28
2	K	770	GLU	C-N-CA	6.73	129.30	120.28
2	T	226	ASP	N-CA-C	-6.73	96.46	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	329	LEU	N-CA-C	-6.73	104.97	113.72
6	G	43	LYS	CA-C-O	-6.73	113.75	120.82
4	E	420	CYS	O-C-N	6.73	129.00	122.07
6	G	493	ILE	CA-C-O	-6.73	113.95	120.95
6	O	856	ARG	CA-C-N	6.73	129.19	120.44
6	O	856	ARG	C-N-CA	6.73	129.19	120.44
6	X	856	ARG	CA-C-N	6.73	129.19	120.44
6	X	856	ARG	C-N-CA	6.73	129.19	120.44
2	C	243	ASP	N-CA-C	-6.73	98.87	109.50
4	M	258	CYS	N-CA-C	-6.72	100.27	109.95
2	T	228	GLN	CA-C-O	6.72	129.33	121.46
5	W	56	ASP	CA-C-O	6.72	127.96	120.43
7	Y	70	THR	N-CA-C	-6.72	98.85	109.07
2	C	226	ASP	N-CA-C	-6.72	96.49	110.80
4	E	447	GLU	CA-C-N	6.72	134.37	121.54
4	E	447	GLU	C-N-CA	6.72	134.37	121.54
6	G	856	ARG	CA-C-N	6.72	129.18	120.44
6	G	856	ARG	C-N-CA	6.72	129.18	120.44
3	L	1	MET	O-C-N	-6.72	112.25	123.00
3	L	695	ASP	CA-C-N	6.72	129.28	120.28
3	L	695	ASP	C-N-CA	6.72	129.28	120.28
7	H	70	THR	N-CA-C	-6.72	98.86	109.07
3	L	454	ASN	CA-C-N	6.72	131.93	122.46
3	L	454	ASN	C-N-CA	6.72	131.93	122.46
6	G	329	LEU	N-CA-C	-6.71	104.99	113.72
2	K	693	CYS	O-C-N	6.71	129.34	122.09
4	V	447	GLU	CA-C-N	6.71	134.36	121.54
4	V	447	GLU	C-N-CA	6.71	134.36	121.54
3	D	1	MET	O-C-N	-6.71	112.26	123.00
3	L	613	ILE	N-CA-C	-6.71	94.38	108.88
6	X	402	ILE	CA-C-O	-6.71	114.19	118.69
3	D	695	ASP	CA-C-N	6.71	129.27	120.28
3	D	695	ASP	C-N-CA	6.71	129.27	120.28
3	U	454	ASN	CA-C-N	6.71	131.92	122.46
3	U	454	ASN	C-N-CA	6.71	131.92	122.46
6	X	329	LEU	N-CA-C	-6.71	105.00	113.72
2	K	172	LEU	CA-C-N	6.71	129.71	120.39
2	K	172	LEU	C-N-CA	6.71	129.71	120.39
6	O	581	PHE	O-C-N	-6.71	115.56	123.41
2	T	323	ARG	O-C-N	-6.71	113.61	121.32
4	V	112	ASP	CA-C-N	6.71	129.27	120.28
4	V	112	ASP	C-N-CA	6.71	129.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	226	ASP	N-CA-C	-6.70	96.52	110.80
2	C	608	TYR	N-CA-C	-6.70	105.73	114.04
5	N	56	ASP	CA-C-O	6.70	127.93	120.43
3	D	454	ASN	CA-C-N	6.70	131.90	122.46
3	D	454	ASN	C-N-CA	6.70	131.90	122.46
6	O	187	ALA	CA-C-N	6.69	130.09	120.79
6	O	187	ALA	C-N-CA	6.69	130.09	120.79
4	V	420	CYS	O-C-N	6.69	128.97	122.07
4	M	713	PRO	N-CA-C	-6.69	101.40	111.57
4	E	713	PRO	N-CA-C	-6.69	101.40	111.57
5	F	56	ASP	CA-C-O	6.69	127.92	120.43
7	P	70	THR	N-CA-C	-6.69	98.91	109.07
2	C	323	ARG	O-C-N	-6.69	113.63	121.32
2	K	323	ARG	O-C-N	-6.69	113.63	121.32
4	M	420	CYS	O-C-N	6.68	128.95	122.07
2	K	608	TYR	N-CA-C	-6.68	105.76	114.04
4	V	713	PRO	N-CA-C	-6.68	101.42	111.57
6	X	43	LYS	CA-C-O	-6.68	113.81	120.82
4	E	112	ASP	CA-C-N	6.68	129.23	120.28
4	E	112	ASP	C-N-CA	6.68	129.23	120.28
6	G	581	PHE	O-C-N	-6.68	115.60	123.41
7	H	77	LEU	CA-C-N	6.67	129.22	120.28
7	H	77	LEU	C-N-CA	6.67	129.22	120.28
6	X	187	ALA	CA-C-N	6.67	130.07	120.79
6	X	187	ALA	C-N-CA	6.67	130.07	120.79
7	Y	77	LEU	CA-C-N	6.67	129.22	120.28
7	Y	77	LEU	C-N-CA	6.67	129.22	120.28
3	U	695	ASP	CA-C-N	6.67	129.22	120.28
3	U	695	ASP	C-N-CA	6.67	129.22	120.28
4	E	834	PHE	CA-C-O	-6.67	113.85	121.72
2	T	608	TYR	N-CA-C	-6.67	105.77	114.04
6	X	581	PHE	O-C-N	-6.67	115.61	123.41
7	P	77	LEU	CA-C-N	6.67	129.21	120.28
7	P	77	LEU	C-N-CA	6.67	129.21	120.28
3	U	1	MET	O-C-N	-6.67	112.33	123.00
6	O	747	VAL	N-CA-C	-6.67	98.86	108.53
2	T	172	LEU	CA-C-N	6.67	129.65	120.39
2	T	172	LEU	C-N-CA	6.67	129.65	120.39
6	X	859	TRP	CA-C-O	6.67	127.82	120.82
2	C	172	LEU	CA-C-N	6.66	129.65	120.39
2	C	172	LEU	C-N-CA	6.66	129.65	120.39
4	M	619	ALA	CA-C-O	6.66	127.61	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	314	HIS	N-CA-C	-6.66	105.72	114.31
4	E	619	ALA	CA-C-O	6.66	127.60	120.55
6	X	314	HIS	N-CA-C	-6.65	105.73	114.31
2	T	94	ASP	CA-C-N	6.65	131.94	121.56
2	T	94	ASP	C-N-CA	6.65	131.94	121.56
2	T	96	ILE	N-CA-C	-6.65	97.60	107.51
4	V	619	ALA	CA-C-O	6.65	127.60	120.55
2	C	96	ILE	N-CA-C	-6.65	97.60	107.51
6	G	449	ILE	CA-C-O	6.65	127.21	120.96
6	O	43	LYS	CA-C-O	-6.65	113.84	120.82
3	D	437	PHE	CA-C-O	-6.65	114.02	121.00
4	M	834	PHE	CA-C-O	-6.65	113.88	121.72
6	O	859	TRP	CA-C-O	6.65	127.80	120.82
6	G	520	THR	CA-C-N	6.65	129.19	120.28
6	G	520	THR	C-N-CA	6.65	129.19	120.28
6	X	388	HIS	CA-C-N	6.65	129.85	120.28
6	X	388	HIS	C-N-CA	6.65	129.85	120.28
6	G	187	ALA	CA-C-N	6.64	130.03	120.79
6	G	187	ALA	C-N-CA	6.64	130.03	120.79
6	G	314	HIS	N-CA-C	-6.64	105.74	114.31
6	G	747	VAL	N-CA-C	-6.64	98.90	108.53
3	L	437	PHE	CA-C-O	-6.64	114.03	121.00
2	K	96	ILE	N-CA-C	-6.64	97.62	107.51
3	D	58	LEU	CA-C-N	6.64	128.13	119.84
3	D	58	LEU	C-N-CA	6.64	128.13	119.84
4	V	608	THR	CA-C-N	6.64	129.17	120.28
4	V	608	THR	C-N-CA	6.64	129.17	120.28
4	V	834	PHE	CA-C-O	-6.63	113.89	121.72
7	Y	72	LYS	O-C-N	-6.63	115.47	123.10
4	E	41	PRO	CA-C-N	6.63	129.06	120.44
4	E	41	PRO	C-N-CA	6.63	129.06	120.44
4	E	92	ILE	CA-C-O	-6.63	113.82	120.85
2	C	94	ASP	CA-C-N	6.63	131.90	121.56
2	C	94	ASP	C-N-CA	6.63	131.90	121.56
6	O	520	THR	CA-C-N	6.62	129.16	120.28
6	O	520	THR	C-N-CA	6.62	129.16	120.28
7	P	72	LYS	O-C-N	-6.62	115.48	123.10
6	O	449	ILE	CA-C-O	6.62	127.18	120.96
2	T	754	GLN	CA-C-N	6.62	129.69	120.29
2	T	754	GLN	C-N-CA	6.62	129.69	120.29
4	V	92	ILE	CA-C-O	-6.62	113.83	120.85
6	G	388	HIS	CA-C-N	6.62	129.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	388	HIS	C-N-CA	6.62	129.81	120.28
4	M	41	PRO	CA-C-N	6.62	129.04	120.44
4	M	41	PRO	C-N-CA	6.62	129.04	120.44
3	U	437	PHE	CA-C-O	-6.62	114.05	121.00
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
7	H	72	LYS	O-C-N	-6.61	115.50	123.10
2	K	754	GLN	CA-C-N	6.61	129.67	120.29
2	K	754	GLN	C-N-CA	6.61	129.67	120.29
4	M	92	ILE	CA-C-O	-6.61	113.85	120.85
3	D	557	LEU	N-CA-C	-6.61	98.93	109.76
4	M	112	ASP	CA-C-N	6.61	129.13	120.28
4	M	112	ASP	C-N-CA	6.61	129.13	120.28
6	X	747	VAL	N-CA-C	-6.61	98.95	108.53
5	N	66	THR	N-CA-C	-6.60	99.26	109.76
2	T	255	ALA	CA-C-O	6.60	128.20	120.14
6	X	449	ILE	CA-C-O	6.60	127.17	120.96
6	G	381	GLN	CA-C-N	6.60	129.13	120.28
6	G	381	GLN	C-N-CA	6.60	129.13	120.28
2	K	94	ASP	CA-C-N	6.60	131.86	121.56
2	K	94	ASP	C-N-CA	6.60	131.86	121.56
5	F	66	THR	N-CA-C	-6.60	99.27	109.76
6	X	520	THR	CA-C-N	6.60	129.12	120.28
6	X	520	THR	C-N-CA	6.60	129.12	120.28
7	Y	41	ASN	CA-C-N	6.60	134.15	121.54
7	Y	41	ASN	C-N-CA	6.60	134.15	121.54
6	O	388	HIS	CA-C-N	6.60	129.78	120.28
6	O	388	HIS	C-N-CA	6.60	129.78	120.28
2	K	255	ALA	CA-C-O	6.60	128.19	120.14
2	C	754	GLN	CA-C-N	6.59	129.66	120.29
2	C	754	GLN	C-N-CA	6.59	129.66	120.29
3	U	158	PHE	N-CA-C	-6.59	99.13	108.96
4	V	41	PRO	CA-C-N	6.59	129.01	120.44
4	V	41	PRO	C-N-CA	6.59	129.01	120.44
7	P	41	ASN	CA-C-N	6.59	134.13	121.54
7	P	41	ASN	C-N-CA	6.59	134.13	121.54
2	C	319	LEU	CA-C-N	6.59	134.07	122.67
2	C	319	LEU	C-N-CA	6.59	134.07	122.67
2	K	319	LEU	CA-C-N	6.59	134.07	122.67
2	K	319	LEU	C-N-CA	6.59	134.07	122.67
3	U	557	LEU	N-CA-C	-6.59	98.95	109.76
3	D	158	PHE	N-CA-C	-6.59	99.14	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	41	ASN	CA-C-N	6.59	134.12	121.54
7	H	41	ASN	C-N-CA	6.59	134.12	121.54
2	K	292	ASP	CA-C-N	6.59	134.12	121.54
2	K	292	ASP	C-N-CA	6.59	134.12	121.54
2	T	319	LEU	CA-C-N	6.59	134.06	122.67
2	T	319	LEU	C-N-CA	6.59	134.06	122.67
3	L	557	LEU	N-CA-C	-6.58	98.97	109.76
2	C	255	ALA	CA-C-O	6.58	128.17	120.14
2	C	292	ASP	CA-C-N	6.58	134.11	121.54
2	C	292	ASP	C-N-CA	6.58	134.11	121.54
4	M	298	SER	N-CA-C	6.58	122.60	113.45
5	W	66	THR	N-CA-C	-6.58	99.30	109.76
4	V	298	SER	N-CA-C	6.58	122.59	113.45
6	X	381	GLN	CA-C-N	6.58	129.09	120.28
6	X	381	GLN	C-N-CA	6.58	129.09	120.28
6	O	881	LEU	O-C-N	6.58	128.84	122.07
6	G	859	TRP	CA-C-O	6.58	127.72	120.82
6	O	381	GLN	CA-C-N	6.58	129.09	120.28
6	O	381	GLN	C-N-CA	6.58	129.09	120.28
3	U	58	LEU	CA-C-N	6.58	128.06	119.84
3	U	58	LEU	C-N-CA	6.58	128.06	119.84
7	Y	114	ASP	CA-C-N	6.58	129.38	120.44
7	Y	114	ASP	C-N-CA	6.58	129.38	120.44
4	E	608	THR	CA-C-N	6.57	129.09	120.28
4	E	608	THR	C-N-CA	6.57	129.09	120.28
2	C	136	HIS	CA-C-N	6.57	134.09	121.54
2	C	136	HIS	C-N-CA	6.57	134.09	121.54
4	M	608	THR	CA-C-N	6.57	129.08	120.28
4	M	608	THR	C-N-CA	6.57	129.08	120.28
4	E	415	ARG	CA-C-N	6.57	129.08	120.28
4	E	415	ARG	C-N-CA	6.57	129.08	120.28
3	L	158	PHE	N-CA-C	-6.57	99.18	108.96
4	M	441	GLU	CA-C-N	6.56	134.08	121.54
4	M	441	GLU	C-N-CA	6.56	134.08	121.54
2	T	292	ASP	CA-C-N	6.56	134.06	121.54
2	T	292	ASP	C-N-CA	6.56	134.06	121.54
4	E	298	SER	N-CA-C	6.55	122.56	113.45
2	K	136	HIS	CA-C-N	6.55	134.06	121.54
2	K	136	HIS	C-N-CA	6.55	134.06	121.54
7	H	114	ASP	CA-C-N	6.55	129.35	120.44
7	H	114	ASP	C-N-CA	6.55	129.35	120.44
6	X	924	VAL	O-C-N	6.55	130.06	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	740	GLY	N-CA-C	6.55	121.82	113.24
6	G	234	VAL	CA-C-O	-6.54	113.79	121.05
6	G	881	LEU	O-C-N	6.54	128.81	122.07
6	X	881	LEU	O-C-N	6.54	128.81	122.07
2	K	740	GLY	N-CA-C	6.54	121.81	113.24
4	E	441	GLU	CA-C-N	6.54	134.03	121.54
4	E	441	GLU	C-N-CA	6.54	134.03	121.54
6	O	37	SER	CA-C-N	6.54	129.33	120.44
6	O	37	SER	C-N-CA	6.54	129.33	120.44
6	X	234	VAL	CA-C-O	-6.54	113.80	121.05
4	V	614	GLN	O-C-N	-6.53	115.19	122.12
6	X	841	ILE	CA-C-N	6.53	129.69	120.28
6	X	841	ILE	C-N-CA	6.53	129.69	120.28
4	M	178	VAL	CA-C-N	6.53	129.32	120.44
4	M	178	VAL	C-N-CA	6.53	129.32	120.44
6	O	841	ILE	CA-C-N	6.53	129.69	120.28
6	O	841	ILE	C-N-CA	6.53	129.69	120.28
2	T	136	HIS	CA-C-N	6.53	134.01	121.54
2	T	136	HIS	C-N-CA	6.53	134.01	121.54
2	T	218	PRO	N-CA-C	-6.53	103.65	114.75
3	D	702	LEU	O-C-N	6.53	129.14	122.09
4	V	441	GLU	CA-C-N	6.53	134.01	121.54
4	V	441	GLU	C-N-CA	6.53	134.01	121.54
4	M	322	VAL	CA-C-O	-6.53	113.59	120.57
4	M	614	GLN	O-C-N	-6.53	115.20	122.12
6	O	924	VAL	O-C-N	6.52	130.03	123.18
7	P	114	ASP	CA-C-N	6.52	129.31	120.44
7	P	114	ASP	C-N-CA	6.52	129.31	120.44
3	D	785	ALA	CA-C-N	6.52	129.02	120.28
3	D	785	ALA	C-N-CA	6.52	129.02	120.28
6	G	105	TYR	CA-C-O	6.52	127.28	119.59
4	E	191	MET	O-C-N	6.52	129.13	122.09
6	G	924	VAL	O-C-N	6.52	130.02	123.18
3	L	578	LYS	N-CA-C	-6.52	104.02	112.23
4	M	191	MET	O-C-N	6.52	129.13	122.09
6	X	223	LEU	CA-C-O	-6.52	113.64	120.55
4	M	415	ARG	CA-C-N	6.52	129.01	120.28
4	M	415	ARG	C-N-CA	6.52	129.01	120.28
4	V	322	VAL	CA-C-O	-6.52	113.60	120.57
4	E	322	VAL	CA-C-O	-6.51	113.60	120.57
4	M	840	ILE	N-CA-C	-6.51	98.74	108.12
3	U	698	GLY	CA-C-N	6.51	129.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	698	GLY	C-N-CA	6.51	129.01	120.28
3	L	698	GLY	CA-C-N	6.51	129.00	120.28
3	L	698	GLY	C-N-CA	6.51	129.00	120.28
6	O	223	LEU	CA-C-O	-6.51	113.65	120.55
4	V	840	ILE	N-CA-C	-6.51	98.75	108.12
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
2	T	783	GLU	CA-C-N	6.51	133.97	121.54
2	T	783	GLU	C-N-CA	6.51	133.97	121.54
6	O	234	VAL	CA-C-O	-6.51	113.83	121.05
2	T	740	GLY	N-CA-C	6.51	121.77	113.24
4	V	255	ILE	CA-C-N	6.51	133.97	121.54
4	V	255	ILE	C-N-CA	6.51	133.97	121.54
4	V	415	ARG	CA-C-N	6.51	129.00	120.28
4	V	415	ARG	C-N-CA	6.51	129.00	120.28
4	E	840	ILE	N-CA-C	-6.50	98.75	108.12
4	E	178	VAL	CA-C-N	6.50	129.28	120.44
4	E	178	VAL	C-N-CA	6.50	129.28	120.44
3	L	785	ALA	CA-C-N	6.50	128.99	120.28
3	L	785	ALA	C-N-CA	6.50	128.99	120.28
3	U	785	ALA	CA-C-N	6.50	128.99	120.28
3	U	785	ALA	C-N-CA	6.50	128.99	120.28
2	C	218	PRO	N-CA-C	-6.50	103.70	114.75
3	D	698	GLY	CA-C-N	6.50	128.99	120.28
3	D	698	GLY	C-N-CA	6.50	128.99	120.28
4	E	255	ILE	CA-C-N	6.50	133.95	121.54
4	E	255	ILE	C-N-CA	6.50	133.95	121.54
2	K	218	PRO	N-CA-C	-6.50	103.70	114.75
2	K	783	GLU	CA-C-N	6.50	133.95	121.54
2	K	783	GLU	C-N-CA	6.50	133.95	121.54
3	U	578	LYS	N-CA-C	-6.50	104.04	112.23
5	W	18	ILE	N-CA-C	-6.50	98.15	107.77
4	E	614	GLN	O-C-N	-6.50	115.23	122.12
4	V	191	MET	O-C-N	6.49	129.10	122.09
2	K	733	TYR	CA-C-N	6.49	128.88	120.44
2	K	733	TYR	C-N-CA	6.49	128.88	120.44
3	L	402	GLU	N-CA-C	-6.49	98.03	109.06
3	U	402	GLU	N-CA-C	-6.49	98.03	109.06
6	G	841	ILE	CA-C-N	6.49	129.62	120.28
6	G	841	ILE	C-N-CA	6.49	129.62	120.28
4	M	255	ILE	CA-C-N	6.49	133.93	121.54
4	M	255	ILE	C-N-CA	6.49	133.93	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	18	ILE	N-CA-C	-6.49	98.17	107.77
7	Y	57	VAL	N-CA-C	-6.49	98.29	108.86
3	D	402	GLU	N-CA-C	-6.48	98.04	109.06
3	U	617	GLN	CA-C-O	-6.48	113.68	120.55
3	L	498	ALA	N-CA-C	6.48	118.00	111.07
3	U	702	LEU	O-C-N	6.48	129.09	122.09
3	D	578	LYS	N-CA-C	-6.48	104.07	112.23
3	D	617	GLN	CA-C-O	-6.48	113.68	120.55
3	L	702	LEU	O-C-N	6.48	129.09	122.09
4	V	178	VAL	CA-C-N	6.48	129.25	120.44
4	V	178	VAL	C-N-CA	6.48	129.25	120.44
5	F	18	ILE	N-CA-C	-6.48	98.19	107.77
2	T	733	TYR	CA-C-N	6.47	128.86	120.44
2	T	733	TYR	C-N-CA	6.47	128.86	120.44
6	G	435	ARG	N-CA-C	-6.47	101.84	111.81
6	G	479	VAL	CA-C-N	6.47	130.15	120.31
6	G	479	VAL	C-N-CA	6.47	130.15	120.31
6	O	435	ARG	N-CA-C	-6.47	101.84	111.81
6	O	479	VAL	CA-C-N	6.47	130.15	120.31
6	O	479	VAL	C-N-CA	6.47	130.15	120.31
6	X	435	ARG	N-CA-C	-6.47	101.84	111.81
6	O	338	LYS	CA-C-O	-6.46	114.04	120.70
6	X	338	LYS	CA-C-O	-6.46	114.04	120.70
6	O	561	LEU	N-CA-C	-6.46	104.24	111.28
6	X	561	LEU	N-CA-C	-6.46	104.24	111.28
3	D	45	GLU	N-CA-C	6.46	119.28	111.40
4	E	666	THR	N-CA-C	-6.46	98.45	109.24
4	V	450	VAL	CA-C-O	-6.46	114.23	120.95
6	G	561	LEU	N-CA-C	-6.46	104.24	111.28
3	U	45	GLU	N-CA-C	6.46	119.28	111.40
7	H	57	VAL	N-CA-C	-6.46	98.34	108.86
3	L	544	ASN	N-CA-C	-6.45	99.60	109.41
4	M	450	VAL	CA-C-O	-6.45	114.24	120.95
4	E	450	VAL	CA-C-O	-6.45	114.24	120.95
4	V	666	THR	N-CA-C	-6.45	98.47	109.24
4	E	424	ILE	N-CA-C	6.45	117.19	110.62
6	G	223	LEU	CA-C-O	-6.45	113.72	120.55
2	K	699	ASN	CA-C-N	6.45	129.44	120.29
2	K	699	ASN	C-N-CA	6.45	129.44	120.29
3	U	498	ALA	N-CA-C	6.45	117.97	111.07
6	X	479	VAL	CA-C-N	6.45	130.11	120.31
6	X	479	VAL	C-N-CA	6.45	130.11	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	83	LEU	CA-C-N	6.44	129.20	120.44
7	H	83	LEU	C-N-CA	6.44	129.20	120.44
4	V	424	ILE	N-CA-C	6.44	117.19	110.62
2	C	699	ASN	CA-C-N	6.44	129.44	120.29
2	C	699	ASN	C-N-CA	6.44	129.44	120.29
3	D	498	ALA	N-CA-C	6.44	117.96	111.07
4	M	666	THR	N-CA-C	-6.44	98.48	109.24
7	P	57	VAL	N-CA-C	-6.44	98.36	108.86
2	C	733	TYR	CA-C-N	6.44	128.81	120.44
2	C	733	TYR	C-N-CA	6.44	128.81	120.44
6	O	953	LEU	CA-C-N	6.44	128.91	120.28
6	O	953	LEU	C-N-CA	6.44	128.91	120.28
6	X	105	TYR	CA-C-O	6.44	127.19	119.59
5	F	84	TYR	CA-C-O	6.44	126.84	119.18
3	L	45	GLU	N-CA-C	6.44	119.25	111.40
3	L	617	GLN	CA-C-O	-6.43	113.73	120.55
4	M	424	ILE	N-CA-C	6.43	117.18	110.62
6	O	105	TYR	CA-C-O	6.43	127.18	119.59
6	X	67	LEU	N-CA-C	6.43	124.03	109.81
7	Y	83	LEU	CA-C-N	6.43	129.19	120.44
7	Y	83	LEU	C-N-CA	6.43	129.19	120.44
4	V	649	ARG	N-CA-C	-6.43	98.42	108.90
4	M	248	ASP	O-C-N	-6.42	114.63	122.34
3	D	55	VAL	N-CA-C	6.42	116.56	110.53
5	N	51	LYS	O-C-N	6.42	129.03	122.09
3	D	196	GLY	CA-C-O	6.42	131.74	120.57
4	E	649	ARG	N-CA-C	-6.42	98.44	108.90
4	E	248	ASP	O-C-N	-6.42	114.64	122.34
4	V	248	ASP	O-C-N	-6.41	114.64	122.34
6	O	365	ILE	CA-C-O	-6.41	113.48	121.11
7	P	83	LEU	CA-C-N	6.41	129.16	120.44
7	P	83	LEU	C-N-CA	6.41	129.16	120.44
2	C	628	TYR	N-CA-C	-6.41	104.94	112.89
3	D	544	ASN	N-CA-C	-6.41	99.67	109.41
2	K	105	TYR	N-CA-C	-6.41	95.65	109.81
2	K	628	TYR	N-CA-C	-6.41	104.94	112.89
2	T	187	VAL	N-CA-C	-6.41	105.43	112.80
2	T	699	ASN	CA-C-N	6.41	129.39	120.29
2	T	699	ASN	C-N-CA	6.41	129.39	120.29
3	U	637	VAL	O-C-N	-6.41	115.23	121.83
2	C	105	TYR	N-CA-C	-6.41	95.66	109.81
4	E	138	GLN	CA-C-N	6.41	128.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	138	GLN	C-N-CA	6.41	128.86	120.28
3	L	196	GLY	CA-C-O	6.41	131.72	120.57
5	N	133	VAL	N-CA-C	-6.41	99.00	109.12
5	W	133	VAL	N-CA-C	-6.40	99.00	109.12
3	D	82	ARG	N-CA-C	-6.40	98.96	109.40
6	O	67	LEU	N-CA-C	6.40	123.96	109.81
6	O	948	SER	N-CA-C	-6.40	103.59	112.30
2	T	105	TYR	N-CA-C	-6.40	95.66	109.81
6	G	338	LYS	CA-C-O	-6.40	114.11	120.70
6	G	365	ILE	CA-C-O	-6.40	113.49	121.11
2	K	693	CYS	CA-C-N	6.40	129.50	120.28
2	K	693	CYS	C-N-CA	6.40	129.50	120.28
4	M	649	ARG	N-CA-C	-6.40	98.47	108.90
2	T	628	TYR	N-CA-C	-6.40	104.95	112.89
2	C	187	VAL	N-CA-C	-6.40	105.44	112.80
5	F	138	ASP	N-CA-C	-6.40	98.47	109.15
6	G	67	LEU	N-CA-C	6.40	123.95	109.81
2	K	187	VAL	N-CA-C	-6.40	105.44	112.80
6	O	169	LEU	N-CA-C	-6.40	97.17	110.80
3	U	78	ASP	N-CA-C	-6.40	105.30	113.23
3	D	775	GLU	O-C-N	6.40	128.90	122.12
2	T	693	CYS	CA-C-N	6.40	129.49	120.28
2	T	693	CYS	C-N-CA	6.40	129.49	120.28
3	L	55	VAL	N-CA-C	6.39	116.54	110.53
3	U	55	VAL	N-CA-C	6.39	116.54	110.53
3	U	544	ASN	N-CA-C	-6.39	99.69	109.41
6	G	264	ALA	CA-C-N	6.39	128.85	120.28
6	G	264	ALA	C-N-CA	6.39	128.85	120.28
3	L	82	ARG	N-CA-C	-6.39	98.98	109.40
5	F	133	VAL	N-CA-C	-6.39	99.03	109.12
6	X	169	LEU	N-CA-C	-6.39	97.19	110.80
6	X	860	ALA	O-C-N	6.39	128.89	122.12
3	D	637	VAL	O-C-N	-6.39	115.25	121.83
3	L	392	GLN	N-CA-C	-6.39	104.18	112.23
5	N	138	ASP	N-CA-C	-6.39	98.48	109.15
6	X	953	LEU	CA-C-N	6.39	128.84	120.28
6	X	953	LEU	C-N-CA	6.39	128.84	120.28
6	G	169	LEU	N-CA-C	-6.39	97.20	110.80
2	C	693	CYS	CA-C-N	6.38	129.47	120.28
2	C	693	CYS	C-N-CA	6.38	129.47	120.28
3	D	392	GLN	N-CA-C	-6.38	104.19	112.23
5	N	84	TYR	CA-C-O	6.38	126.78	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	762	ALA	CA-C-N	6.38	128.83	120.28
2	T	762	ALA	C-N-CA	6.38	128.83	120.28
3	U	196	GLY	CA-C-O	6.38	131.68	120.57
6	X	365	ILE	CA-C-O	-6.38	113.51	121.11
2	K	762	ALA	CA-C-N	6.38	128.83	120.28
2	K	762	ALA	C-N-CA	6.38	128.83	120.28
6	X	218	THR	N-CA-C	6.38	118.24	111.28
2	K	700	PHE	N-CA-C	-6.38	104.41	111.36
4	M	138	GLN	CA-C-N	6.38	128.83	120.28
4	M	138	GLN	C-N-CA	6.38	128.83	120.28
3	U	775	GLU	O-C-N	6.38	128.88	122.12
6	X	37	SER	CA-C-N	6.38	129.35	120.29
6	X	37	SER	C-N-CA	6.38	129.35	120.29
4	E	446	CYS	N-CA-C	-6.38	105.43	113.72
2	C	43	LEU	CA-C-N	6.37	128.66	120.88
2	C	43	LEU	C-N-CA	6.37	128.66	120.88
6	G	948	SER	N-CA-C	-6.37	103.63	112.30
4	V	138	GLN	CA-C-N	6.37	128.82	120.28
4	V	138	GLN	C-N-CA	6.37	128.82	120.28
5	W	138	ASP	N-CA-C	-6.37	98.51	109.15
4	E	207	ASP	N-CA-C	-6.37	99.30	108.60
3	L	354	TYR	N-CA-C	-6.37	101.50	110.29
6	G	155	ALA	N-CA-C	6.37	117.89	111.07
6	G	860	ALA	O-C-N	6.37	128.87	122.12
4	E	77	PHE	CA-C-N	6.37	128.81	120.28
4	E	77	PHE	C-N-CA	6.37	128.81	120.28
6	G	37	SER	CA-C-N	6.37	129.34	120.29
6	G	37	SER	C-N-CA	6.37	129.34	120.29
3	U	354	TYR	N-CA-C	-6.37	101.50	110.29
4	V	446	CYS	N-CA-C	-6.37	105.44	113.72
6	X	128	LYS	CA-C-O	-6.37	112.11	119.56
6	X	517	GLU	CA-C-N	6.37	128.72	120.44
6	X	517	GLU	C-N-CA	6.37	128.72	120.44
6	G	218	THR	N-CA-C	6.37	118.22	111.28
3	D	354	TYR	N-CA-C	-6.37	101.51	110.29
5	F	76	TYR	N-CA-C	-6.37	98.61	109.24
6	G	517	GLU	CA-C-N	6.37	128.72	120.44
6	G	517	GLU	C-N-CA	6.37	128.72	120.44
2	K	43	LEU	CA-C-N	6.37	128.65	120.88
2	K	43	LEU	C-N-CA	6.37	128.65	120.88
5	N	76	TYR	N-CA-C	-6.37	98.61	109.24
6	O	264	ALA	CA-C-N	6.37	128.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	264	ALA	C-N-CA	6.37	128.81	120.28
3	U	82	ARG	N-CA-C	-6.37	99.03	109.40
3	U	392	GLN	N-CA-C	-6.37	104.21	112.23
2	C	762	ALA	CA-C-N	6.36	128.81	120.28
2	C	762	ALA	C-N-CA	6.36	128.81	120.28
2	T	43	LEU	CA-C-N	6.36	128.64	120.88
2	T	43	LEU	C-N-CA	6.36	128.64	120.88
6	X	948	SER	N-CA-C	-6.36	103.65	112.30
3	L	78	ASP	N-CA-C	-6.36	105.34	113.23
2	T	700	PHE	N-CA-C	-6.36	104.43	111.36
4	V	360	LEU	CA-C-O	-6.36	113.81	120.55
5	W	84	TYR	CA-C-O	6.36	126.75	119.18
5	F	51	LYS	O-C-N	6.36	128.96	122.09
6	G	395	PRO	CA-C-N	6.36	128.80	120.28
6	G	395	PRO	C-N-CA	6.36	128.80	120.28
3	U	148	ILE	O-C-N	6.36	129.90	123.10
5	W	51	LYS	O-C-N	6.36	128.96	122.09
6	G	953	LEU	CA-C-N	6.36	128.80	120.28
6	G	953	LEU	C-N-CA	6.36	128.80	120.28
3	L	775	GLU	O-C-N	6.36	128.86	122.12
4	M	77	PHE	CA-C-N	6.36	128.79	120.28
4	M	77	PHE	C-N-CA	6.36	128.79	120.28
4	M	360	LEU	CA-C-O	-6.36	113.81	120.55
4	M	446	CYS	N-CA-C	-6.36	105.46	113.72
2	T	168	ARG	N-CA-C	-6.35	97.27	110.80
3	L	148	ILE	O-C-N	6.35	129.90	123.10
4	M	664	ASP	N-CA-C	-6.35	98.38	108.73
6	O	517	GLU	CA-C-N	6.35	128.70	120.44
6	O	517	GLU	C-N-CA	6.35	128.70	120.44
6	X	264	ALA	CA-C-N	6.35	128.79	120.28
6	X	264	ALA	C-N-CA	6.35	128.79	120.28
6	O	128	LYS	CA-C-O	-6.35	112.13	119.56
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
4	V	664	ASP	N-CA-C	-6.34	98.39	108.73
2	K	168	ARG	N-CA-C	-6.34	97.29	110.80
2	C	168	ARG	N-CA-C	-6.34	97.29	110.80
2	C	700	PHE	N-CA-C	-6.34	104.45	111.36
2	K	432	MET	N-CA-C	-6.34	103.04	113.50
3	L	637	VAL	O-C-N	-6.34	115.30	121.83
3	U	57	ASP	N-CA-C	-6.34	104.81	113.30
3	D	78	ASP	N-CA-C	-6.34	105.37	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	207	ASP	N-CA-C	-6.34	99.35	108.60
6	X	155	ALA	N-CA-C	6.34	117.85	111.07
3	D	148	ILE	O-C-N	6.33	129.88	123.10
6	O	218	THR	N-CA-C	6.33	118.19	111.28
6	O	561	LEU	O-C-N	-6.33	115.41	122.12
2	T	432	MET	N-CA-C	-6.33	103.05	113.50
2	C	766	GLY	N-CA-C	-6.33	106.16	115.72
4	E	664	ASP	N-CA-C	-6.33	98.41	108.73
3	D	57	ASP	N-CA-C	-6.33	104.82	113.30
6	G	196	MET	CA-C-N	6.33	133.63	121.54
6	G	196	MET	C-N-CA	6.33	133.63	121.54
6	X	196	MET	CA-C-N	6.33	133.63	121.54
6	X	196	MET	C-N-CA	6.33	133.63	121.54
6	G	819	VAL	CA-C-O	-6.33	112.98	121.02
4	M	428	ASN	N-CA-C	6.33	120.46	112.87
4	M	670	ASN	O-C-N	6.33	129.36	122.15
6	O	137	MET	O-C-N	-6.33	115.90	120.27
4	E	810	MET	CA-C-O	-6.32	113.39	120.66
6	O	395	PRO	CA-C-N	6.32	128.75	120.28
6	O	395	PRO	C-N-CA	6.32	128.75	120.28
2	T	571	THR	O-C-N	6.32	129.36	122.15
6	X	819	VAL	CA-C-O	-6.32	112.99	121.02
6	O	819	VAL	CA-C-O	-6.32	112.99	121.02
6	X	118	GLY	CA-C-N	6.32	128.75	120.28
6	X	118	GLY	C-N-CA	6.32	128.75	120.28
4	V	77	PHE	CA-C-N	6.32	128.75	120.28
4	V	77	PHE	C-N-CA	6.32	128.75	120.28
4	V	428	ASN	N-CA-C	6.32	120.45	112.87
4	E	428	ASN	N-CA-C	6.32	120.45	112.87
2	C	497	SER	CA-C-N	6.32	133.60	121.54
2	C	497	SER	C-N-CA	6.32	133.60	121.54
2	K	497	SER	CA-C-N	6.32	133.60	121.54
2	K	497	SER	C-N-CA	6.32	133.60	121.54
4	M	207	ASP	N-CA-C	-6.32	99.38	108.60
6	O	860	ALA	O-C-N	6.31	128.81	122.12
3	L	57	ASP	N-CA-C	-6.31	104.84	113.30
4	V	487	VAL	N-CA-C	6.31	117.09	110.72
4	V	810	MET	CA-C-O	-6.31	113.40	120.66
2	C	206	ARG	N-CA-C	-6.31	102.76	111.28
4	E	487	VAL	N-CA-C	6.31	117.09	110.72
4	M	487	VAL	N-CA-C	6.31	117.09	110.72
2	C	432	MET	N-CA-C	-6.31	103.09	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	571	THR	O-C-N	6.30	129.33	122.15
2	K	766	GLY	N-CA-C	-6.30	106.20	115.72
4	M	455	ILE	CA-C-N	6.30	128.63	120.44
4	M	455	ILE	C-N-CA	6.30	128.63	120.44
6	O	196	MET	CA-C-N	6.30	133.57	121.54
6	O	196	MET	C-N-CA	6.30	133.57	121.54
2	T	574	LYS	N-CA-C	-6.30	98.11	108.76
2	T	497	SER	CA-C-N	6.30	133.57	121.54
2	T	497	SER	C-N-CA	6.30	133.57	121.54
2	T	766	GLY	N-CA-C	-6.30	106.21	115.72
4	V	455	ILE	CA-C-N	6.30	128.63	120.44
4	V	455	ILE	C-N-CA	6.30	128.63	120.44
4	V	682	GLU	CA-C-O	-6.30	113.70	119.62
2	C	571	THR	O-C-N	6.30	129.33	122.15
3	L	169	VAL	N-CA-C	-6.29	99.36	108.36
6	X	137	MET	O-C-N	-6.29	115.93	120.27
2	K	574	LYS	N-CA-C	-6.29	98.12	108.76
4	M	682	GLU	CA-C-O	-6.29	113.70	119.62
6	G	316	ARG	O-C-N	-6.29	115.81	123.30
6	G	497	ALA	N-CA-C	6.29	118.22	111.36
2	K	206	ARG	N-CA-C	-6.29	102.78	111.28
2	T	214	HIS	N-CA-C	-6.29	102.13	109.93
6	O	155	ALA	N-CA-C	6.29	117.80	111.07
4	M	810	MET	CA-C-O	-6.29	113.43	120.66
6	X	395	PRO	CA-C-N	6.29	128.71	120.28
6	X	395	PRO	C-N-CA	6.29	128.71	120.28
2	C	214	HIS	N-CA-C	-6.29	102.13	109.93
3	D	169	VAL	N-CA-C	-6.28	99.37	108.36
2	K	214	HIS	N-CA-C	-6.28	102.14	109.93
3	L	100	ASP	N-CA-C	-6.28	99.43	108.60
2	T	206	ARG	N-CA-C	-6.28	102.80	111.28
6	O	118	GLY	CA-C-N	6.28	128.70	120.28
6	O	118	GLY	C-N-CA	6.28	128.70	120.28
6	O	316	ARG	O-C-N	-6.28	115.83	123.30
6	G	118	GLY	CA-C-N	6.28	128.69	120.28
6	G	118	GLY	C-N-CA	6.28	128.69	120.28
3	U	100	ASP	N-CA-C	-6.28	99.43	108.60
3	U	169	VAL	N-CA-C	-6.28	99.38	108.36
6	X	316	ARG	O-C-N	-6.28	115.83	123.30
4	E	670	ASN	O-C-N	6.27	129.30	122.15
4	E	455	ILE	CA-C-N	6.27	128.59	120.44
4	E	455	ILE	C-N-CA	6.27	128.59	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	561	LEU	O-C-N	-6.27	115.47	122.12
2	C	574	LYS	N-CA-C	-6.27	98.16	108.76
2	T	677	LEU	CA-C-O	-6.27	113.77	120.42
4	V	670	ASN	O-C-N	6.27	129.29	122.15
3	D	100	ASP	N-CA-C	-6.26	99.45	108.60
6	O	865	GLU	CA-C-N	6.26	130.01	121.05
6	O	865	GLU	C-N-CA	6.26	130.01	121.05
6	X	561	LEU	O-C-N	-6.26	115.48	122.12
6	G	128	LYS	CA-C-O	-6.26	112.23	119.56
6	X	865	GLU	CA-C-N	6.26	130.00	121.05
6	X	865	GLU	C-N-CA	6.26	130.00	121.05
6	G	865	GLU	CA-C-N	6.26	130.00	121.05
6	G	865	GLU	C-N-CA	6.26	130.00	121.05
2	C	716	LEU	CA-C-N	6.25	128.66	120.28
2	C	716	LEU	C-N-CA	6.25	128.66	120.28
3	U	58	LEU	N-CA-C	-6.25	100.70	110.14
2	T	584	GLU	N-CA-C	-6.25	105.14	112.89
6	X	497	ALA	N-CA-C	6.25	118.17	111.36
4	E	682	GLU	CA-C-O	-6.25	113.75	119.62
3	D	271	MET	O-C-N	6.25	129.62	122.25
4	E	621	PRO	O-C-N	6.25	130.70	122.27
5	N	58	GLU	N-CA-C	-6.25	105.42	113.16
4	V	837	GLY	CA-C-O	6.25	126.24	119.06
5	W	142	VAL	O-C-N	6.25	128.03	121.91
3	D	741	CYS	CA-C-N	6.24	128.93	120.44
3	D	741	CYS	C-N-CA	6.24	128.93	120.44
4	E	27	VAL	N-CA-C	6.24	117.03	110.72
4	M	702	GLN	CA-C-N	6.24	126.16	119.85
4	M	702	GLN	C-N-CA	6.24	126.16	119.85
4	V	621	PRO	O-C-N	6.24	130.70	122.27
6	G	137	MET	O-C-N	-6.24	115.96	120.27
3	L	58	LEU	N-CA-C	-6.24	100.72	110.14
3	U	271	MET	O-C-N	6.24	129.62	122.25
4	V	27	VAL	N-CA-C	6.24	117.02	110.72
4	E	108	SER	CA-C-O	-6.24	113.94	120.55
4	E	694	PRO	N-CA-C	6.24	120.77	111.41
5	F	58	GLU	N-CA-C	-6.24	105.42	113.16
6	G	934	PRO	CA-C-O	-6.24	113.92	122.15
6	X	934	PRO	CA-C-O	-6.24	113.92	122.15
2	C	677	LEU	CA-C-O	-6.24	113.81	120.42
3	D	58	LEU	N-CA-C	-6.23	100.73	110.14
2	K	716	LEU	CA-C-N	6.23	128.63	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	716	LEU	C-N-CA	6.23	128.63	120.28
7	Y	61	MET	CA-C-O	-6.23	112.40	120.25
2	K	584	GLU	N-CA-C	-6.23	105.16	112.89
2	K	677	LEU	CA-C-O	-6.23	113.82	120.42
2	T	716	LEU	CA-C-N	6.23	128.63	120.28
2	T	716	LEU	C-N-CA	6.23	128.63	120.28
4	E	837	GLY	CA-C-O	6.23	126.22	119.06
3	L	741	CYS	CA-C-N	6.23	128.91	120.44
3	L	741	CYS	C-N-CA	6.23	128.91	120.44
6	X	59	LEU	N-CA-C	6.23	118.86	111.33
3	U	741	CYS	CA-C-N	6.23	128.91	120.44
3	U	741	CYS	C-N-CA	6.23	128.91	120.44
2	C	29	HIS	N-CA-C	-6.22	105.17	112.89
4	M	694	PRO	N-CA-C	6.22	120.75	111.41
4	V	694	PRO	N-CA-C	6.22	120.74	111.41
6	G	59	LEU	N-CA-C	6.22	118.86	111.33
4	M	27	VAL	N-CA-C	6.22	117.00	110.72
4	M	621	PRO	O-C-N	6.22	130.67	122.27
2	C	584	GLU	N-CA-C	-6.22	105.18	112.89
2	C	808	TRP	CA-C-O	-6.22	114.49	119.71
3	D	70	ASN	N-CA-C	-6.22	103.59	111.92
2	T	29	HIS	N-CA-C	-6.22	105.18	112.89
4	V	463	GLY	CA-C-N	6.22	127.61	119.84
4	V	463	GLY	C-N-CA	6.22	127.61	119.84
4	E	758	VAL	N-CA-C	-6.22	99.53	108.48
2	K	808	TRP	CA-C-O	-6.22	114.49	119.71
6	O	934	PRO	CA-C-O	-6.22	113.94	122.15
3	L	70	ASN	N-CA-C	-6.21	103.59	111.92
4	M	108	SER	CA-C-O	-6.21	113.96	120.55
5	W	58	GLU	N-CA-C	-6.21	105.45	113.16
7	H	61	MET	CA-C-O	-6.21	112.42	120.25
2	K	29	HIS	N-CA-C	-6.21	105.19	112.89
2	T	363	PHE	N-CA-C	-6.21	102.63	108.22
6	O	497	ALA	N-CA-C	6.21	118.13	111.36
3	U	70	ASN	N-CA-C	-6.21	103.59	111.92
2	K	1189	GLY	N-CA-C	-6.21	106.75	115.32
2	C	75	ILE	N-CA-C	-6.21	99.48	108.17
4	E	548	LEU	N-CA-C	-6.21	104.30	113.61
2	T	385	ASN	N-CA-C	-6.21	102.85	110.61
4	E	366	SER	CA-C-N	6.20	128.59	120.28
4	E	366	SER	C-N-CA	6.20	128.59	120.28
3	L	271	MET	O-C-N	6.20	129.57	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	88	THR	N-CA-C	-6.20	104.88	112.88
2	K	363	PHE	N-CA-C	-6.20	102.64	108.22
2	K	385	ASN	N-CA-C	-6.20	102.86	110.61
2	C	363	PHE	N-CA-C	-6.20	102.64	108.22
4	V	108	SER	CA-C-O	-6.20	113.98	120.55
4	M	463	GLY	CA-C-N	6.20	127.58	119.84
4	M	463	GLY	C-N-CA	6.20	127.58	119.84
4	V	758	VAL	N-CA-C	-6.20	99.56	108.48
6	X	19	GLU	O-C-N	-6.20	116.30	121.44
6	G	16	MET	CA-C-N	6.19	128.87	120.38
6	G	16	MET	C-N-CA	6.19	128.87	120.38
4	M	837	GLY	CA-C-O	6.19	126.18	119.06
7	P	61	MET	CA-C-O	-6.19	112.45	120.25
4	V	548	LEU	N-CA-C	-6.19	104.32	113.61
4	M	259	LEU	N-CA-C	-6.19	101.20	110.06
4	M	366	SER	CA-C-N	6.19	128.58	120.28
4	M	366	SER	C-N-CA	6.19	128.58	120.28
4	M	548	LEU	N-CA-C	-6.19	104.32	113.61
4	V	259	LEU	N-CA-C	-6.19	101.20	110.06
4	V	366	SER	CA-C-N	6.19	128.58	120.28
4	V	366	SER	C-N-CA	6.19	128.58	120.28
2	C	385	ASN	N-CA-C	-6.19	102.87	110.61
2	K	570	VAL	CA-C-N	6.19	129.08	120.29
2	K	570	VAL	C-N-CA	6.19	129.08	120.29
4	M	758	VAL	N-CA-C	-6.19	99.57	108.48
7	Y	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
4	E	259	LEU	N-CA-C	-6.19	101.21	110.06
3	U	88	THR	N-CA-C	-6.19	104.90	112.88
3	L	88	THR	N-CA-C	-6.19	104.90	112.88
2	T	808	TRP	CA-C-O	-6.19	114.51	119.71
4	V	702	GLN	CA-C-N	6.19	126.10	119.85
4	V	702	GLN	C-N-CA	6.19	126.10	119.85
5	F	33	ASP	N-CA-C	-6.18	105.38	113.17
6	O	115	PHE	N-CA-C	6.18	117.69	111.07
4	M	269	GLU	O-C-N	6.18	128.44	122.07
6	O	498	GLY	CA-C-N	6.18	133.35	121.54
6	O	498	GLY	C-N-CA	6.18	133.35	121.54
2	T	1189	GLY	N-CA-C	-6.18	106.79	115.32
5	W	33	ASP	N-CA-C	-6.18	105.38	113.17
5	F	142	VAL	O-C-N	6.18	127.97	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	570	VAL	CA-C-N	6.18	129.07	120.29
2	T	570	VAL	C-N-CA	6.18	129.07	120.29
2	K	75	ILE	N-CA-C	-6.18	99.52	108.17
6	O	59	LEU	N-CA-C	6.18	118.81	111.33
3	L	625	LEU	O-C-N	6.18	128.67	122.12
6	X	430	ARG	CA-C-N	6.18	132.51	123.12
6	X	430	ARG	C-N-CA	6.18	132.51	123.12
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	414	GLU	N-CA-C	-6.17	104.46	111.07
4	V	269	GLU	O-C-N	6.17	128.43	122.07
6	X	16	MET	CA-C-N	6.17	128.84	120.38
6	X	16	MET	C-N-CA	6.17	128.84	120.38
4	E	702	GLN	CA-C-N	6.17	126.08	119.85
4	E	702	GLN	C-N-CA	6.17	126.08	119.85
5	N	142	VAL	O-C-N	6.17	127.96	121.91
5	N	33	ASP	N-CA-C	-6.17	105.40	113.17
6	O	16	MET	CA-C-N	6.17	128.83	120.38
6	O	16	MET	C-N-CA	6.17	128.83	120.38
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
7	H	92	GLU	N-CA-C	-6.17	104.64	111.36
5	N	55	THR	N-CA-C	-6.17	97.67	110.80
6	O	168	HIS	CA-C-O	-6.17	111.97	119.43
6	X	498	GLY	CA-C-N	6.17	133.31	121.54
6	X	498	GLY	C-N-CA	6.17	133.31	121.54
6	G	430	ARG	CA-C-N	6.16	132.49	123.12
6	G	430	ARG	C-N-CA	6.16	132.49	123.12
5	N	65	LEU	N-CA-C	-6.16	99.86	109.72
2	T	75	ILE	N-CA-C	-6.16	99.54	108.17
6	G	19	GLU	O-C-N	-6.16	116.33	121.44
5	F	55	THR	N-CA-C	-6.16	97.68	110.80
4	M	151	LYS	N-CA-C	-6.16	105.41	113.17
3	U	302	GLU	N-CA-C	-6.16	105.56	114.12
4	V	433	GLU	CA-C-N	6.16	128.53	120.28
4	V	433	GLU	C-N-CA	6.16	128.53	120.28
6	G	414	GLU	N-CA-C	-6.16	104.48	111.07
4	E	463	GLY	CA-C-N	6.16	127.53	119.84
4	E	463	GLY	C-N-CA	6.16	127.53	119.84
4	M	433	GLU	CA-C-N	6.16	128.53	120.28
4	M	433	GLU	C-N-CA	6.16	128.53	120.28
5	W	55	THR	N-CA-C	-6.16	97.69	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	168	HIS	CA-C-O	-6.15	111.98	119.43
6	X	414	GLU	N-CA-C	-6.15	104.49	111.07
4	E	868	ILE	N-CA-C	6.15	116.33	110.42
6	G	498	GLY	CA-C-N	6.15	133.29	121.54
6	G	498	GLY	C-N-CA	6.15	133.29	121.54
3	L	302	GLU	N-CA-C	-6.15	105.57	114.12
3	L	668	GLN	CA-C-N	6.15	128.44	120.44
3	L	668	GLN	C-N-CA	6.15	128.44	120.44
5	F	65	LEU	N-CA-C	-6.15	99.88	109.72
4	E	151	LYS	N-CA-C	-6.15	105.42	113.17
4	V	868	ILE	N-CA-C	6.15	116.32	110.42
6	G	55	LEU	CA-C-N	6.15	125.83	119.56
6	G	55	LEU	C-N-CA	6.15	125.83	119.56
6	G	168	HIS	CA-C-O	-6.15	111.99	119.43
3	L	39	VAL	N-CA-C	-6.14	99.39	108.85
5	W	65	LEU	N-CA-C	-6.14	99.89	109.72
6	O	55	LEU	CA-C-N	6.14	125.82	119.56
6	O	55	LEU	C-N-CA	6.14	125.82	119.56
7	P	92	GLU	N-CA-C	-6.14	104.67	111.36
4	E	269	GLU	O-C-N	6.14	128.39	122.07
4	M	108	SER	O-C-N	6.14	128.62	122.12
6	G	115	PHE	N-CA-C	6.13	117.63	111.07
2	T	359	SER	N-CA-C	6.13	118.45	108.63
3	U	39	VAL	N-CA-C	-6.13	99.40	108.85
4	V	151	LYS	N-CA-C	-6.13	105.44	113.17
6	O	430	ARG	CA-C-N	6.13	132.44	123.12
6	O	430	ARG	C-N-CA	6.13	132.44	123.12
3	U	751	LEU	O-C-N	-6.13	114.27	121.32
6	X	115	PHE	N-CA-C	6.13	117.63	111.07
4	E	550	GLY	N-CA-C	-6.13	105.96	116.01
2	C	560	ILE	N-CA-C	-6.12	98.92	107.80
6	X	899	LEU	N-CA-C	6.12	123.85	110.80
2	C	359	SER	N-CA-C	6.12	118.43	108.63
2	T	560	ILE	N-CA-C	-6.12	98.92	107.80
3	D	245	ILE	N-CA-C	-6.12	99.54	108.11
6	O	19	GLU	O-C-N	-6.12	116.36	121.44
3	U	608	LYS	CA-C-N	6.12	130.14	120.47
3	U	608	LYS	C-N-CA	6.12	130.14	120.47
3	D	625	LEU	O-C-N	6.12	128.61	122.12
2	K	560	ILE	N-CA-C	-6.12	98.93	107.80
6	X	153	ARG	CA-C-N	6.12	128.39	120.44
6	X	153	ARG	C-N-CA	6.12	128.39	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	608	LYS	CA-C-N	6.12	130.13	120.47
3	L	608	LYS	C-N-CA	6.12	130.13	120.47
4	M	275	VAL	N-CA-C	6.12	117.59	110.62
3	D	39	VAL	N-CA-C	-6.12	99.43	108.85
4	M	867	ASP	CA-C-N	6.11	128.26	120.56
4	M	867	ASP	C-N-CA	6.11	128.26	120.56
6	O	899	LEU	N-CA-C	6.11	123.82	110.80
3	U	625	LEU	O-C-N	6.11	128.60	122.12
3	U	668	GLN	CA-C-N	6.11	128.38	120.44
3	U	668	GLN	C-N-CA	6.11	128.38	120.44
6	X	438	ILE	CA-C-N	6.11	128.48	120.60
6	X	438	ILE	C-N-CA	6.11	128.48	120.60
2	C	317	PHE	CA-C-N	6.11	131.43	123.00
2	C	317	PHE	C-N-CA	6.11	131.43	123.00
4	E	275	VAL	N-CA-C	6.11	117.58	110.62
2	K	359	SER	N-CA-C	6.11	118.40	108.63
2	T	317	PHE	CA-C-N	6.11	131.43	123.00
2	T	317	PHE	C-N-CA	6.11	131.43	123.00
5	N	109	VAL	CA-C-O	6.10	128.34	120.95
2	T	150	VAL	N-CA-C	-6.10	99.80	108.65
6	G	438	ILE	CA-C-N	6.10	128.47	120.60
6	G	438	ILE	C-N-CA	6.10	128.47	120.60
7	H	11	LYS	N-CA-C	-6.10	106.50	112.97
4	M	502	ASN	CA-C-N	6.10	128.46	120.28
4	M	502	ASN	C-N-CA	6.10	128.46	120.28
6	O	219	PHE	N-CA-C	-6.10	104.54	111.07
7	Y	11	LYS	N-CA-C	-6.10	106.50	112.97
6	G	899	LEU	N-CA-C	6.10	123.80	110.80
4	E	867	ASP	CA-C-N	6.10	128.25	120.56
4	E	867	ASP	C-N-CA	6.10	128.25	120.56
4	M	868	ILE	N-CA-C	6.10	116.27	110.42
6	G	153	ARG	CA-C-N	6.10	128.45	120.28
6	G	153	ARG	C-N-CA	6.10	128.45	120.28
4	M	24	LYS	O-C-N	-6.10	115.20	122.15
2	K	317	PHE	CA-C-N	6.09	131.41	123.00
2	K	317	PHE	C-N-CA	6.09	131.41	123.00
4	V	108	SER	O-C-N	6.09	128.58	122.12
4	V	867	ASP	CA-C-N	6.09	128.24	120.56
4	V	867	ASP	C-N-CA	6.09	128.24	120.56
3	L	245	ILE	N-CA-C	-6.09	99.58	108.11
4	M	550	GLY	N-CA-C	-6.09	106.02	116.01
6	G	356	LEU	O-C-N	-6.09	115.20	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	180	GLU	CA-C-N	6.09	128.36	120.44
4	M	180	GLU	C-N-CA	6.09	128.36	120.44
4	M	673	THR	N-CA-C	-6.09	99.07	109.24
6	O	438	ILE	CA-C-N	6.09	128.46	120.60
6	O	438	ILE	C-N-CA	6.09	128.46	120.60
6	X	224	GLN	CA-C-N	6.09	128.44	120.28
6	X	224	GLN	C-N-CA	6.09	128.44	120.28
5	F	109	VAL	CA-C-O	6.09	128.32	120.95
3	D	751	LEU	O-C-N	-6.09	114.32	121.32
4	E	24	LYS	O-C-N	-6.09	115.21	122.15
4	E	180	GLU	CA-C-N	6.09	128.35	120.44
4	E	180	GLU	C-N-CA	6.09	128.35	120.44
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
7	P	11	LYS	N-CA-C	-6.09	106.52	112.97
3	U	245	ILE	N-CA-C	-6.09	99.59	108.11
4	V	550	GLY	N-CA-C	-6.09	106.03	116.01
7	Y	90	ILE	CA-C-N	6.09	125.77	119.56
7	Y	90	ILE	C-N-CA	6.09	125.77	119.56
4	E	108	SER	O-C-N	6.08	128.57	122.12
2	K	150	VAL	N-CA-C	-6.08	99.83	108.65
3	U	765	GLN	CA-C-N	6.08	129.11	120.53
3	U	765	GLN	C-N-CA	6.08	129.11	120.53
4	V	24	LYS	O-C-N	-6.08	115.22	122.15
4	V	673	THR	N-CA-C	-6.08	99.08	109.24
6	O	217	GLN	N-CA-C	-6.08	98.37	108.34
6	O	488	ILE	CA-C-N	6.08	129.10	120.53
6	O	488	ILE	C-N-CA	6.08	129.10	120.53
6	X	126	LYS	N-CA-C	6.08	118.87	111.82
4	V	86	ARG	N-CA-C	6.08	117.91	111.28
3	D	765	GLN	CA-C-N	6.08	129.10	120.53
3	D	765	GLN	C-N-CA	6.08	129.10	120.53
4	V	275	VAL	N-CA-C	6.08	117.55	110.62
5	W	60	ALA	N-CA-C	-6.08	99.16	108.76
2	C	150	VAL	N-CA-C	-6.08	99.84	108.65
6	G	224	GLN	CA-C-N	6.08	128.42	120.28
6	G	224	GLN	C-N-CA	6.08	128.42	120.28
3	L	366	PHE	N-CA-C	-6.08	100.10	109.52
2	T	352	VAL	O-C-N	-6.08	114.98	122.57
3	D	710	SER	N-CA-C	6.07	118.87	111.82
6	G	562	THR	N-CA-C	-6.07	104.66	111.28
6	O	153	ARG	CA-C-N	6.07	128.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	153	ARG	C-N-CA	6.07	128.42	120.28
7	P	90	ILE	CA-C-N	6.07	125.75	119.56
7	P	90	ILE	C-N-CA	6.07	125.75	119.56
6	X	507	THR	CA-C-N	6.07	132.90	121.97
6	X	507	THR	C-N-CA	6.07	132.90	121.97
6	G	126	LYS	N-CA-C	6.07	118.86	111.82
3	L	710	SER	N-CA-C	6.07	118.86	111.82
6	X	219	PHE	N-CA-C	-6.07	104.58	111.07
3	D	608	LYS	CA-C-N	6.07	130.06	120.47
3	D	608	LYS	C-N-CA	6.07	130.06	120.47
4	E	502	ASN	CA-C-N	6.07	128.41	120.28
4	E	502	ASN	C-N-CA	6.07	128.41	120.28
6	O	766	ASP	N-CA-C	6.07	118.54	110.53
3	U	366	PHE	N-CA-C	-6.07	100.12	109.52
4	E	673	THR	N-CA-C	-6.07	99.11	109.24
3	L	143	HIS	CA-C-N	6.07	133.12	121.54
3	L	143	HIS	C-N-CA	6.07	133.12	121.54
3	U	143	HIS	CA-C-N	6.07	133.12	121.54
3	U	143	HIS	C-N-CA	6.07	133.12	121.54
5	W	109	VAL	CA-C-O	6.07	128.29	120.95
3	D	367	VAL	N-CA-C	-6.06	99.42	108.46
6	G	507	THR	CA-C-N	6.06	132.88	121.97
6	G	507	THR	C-N-CA	6.06	132.88	121.97
3	D	366	PHE	N-CA-C	-6.06	100.12	109.52
2	K	657	ASN	N-CA-C	-6.06	98.53	108.41
2	K	200	VAL	O-C-N	6.06	130.97	122.97
3	L	751	LEU	O-C-N	-6.06	114.35	121.32
6	X	55	LEU	CA-C-N	6.06	125.74	119.56
6	X	55	LEU	C-N-CA	6.06	125.74	119.56
6	X	217	GLN	N-CA-C	-6.06	98.40	108.34
2	K	352	VAL	O-C-N	-6.06	115.00	122.57
5	N	60	ALA	N-CA-C	-6.06	99.19	108.76
4	E	396	VAL	CA-C-N	6.06	128.31	120.44
4	E	396	VAL	C-N-CA	6.06	128.31	120.44
3	L	765	GLN	CA-C-N	6.06	129.07	120.53
3	L	765	GLN	C-N-CA	6.06	129.07	120.53
6	O	126	LYS	N-CA-C	6.06	118.85	111.82
7	Y	29	ILE	CA-C-O	-6.06	114.75	121.17
4	V	502	ASN	CA-C-N	6.06	128.40	120.28
4	V	502	ASN	C-N-CA	6.06	128.40	120.28
2	C	657	ASN	N-CA-C	-6.05	98.54	108.41
2	K	528	ILE	CA-C-N	6.05	129.36	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	528	ILE	C-N-CA	6.05	129.36	120.82
6	X	488	ILE	CA-C-N	6.05	129.07	120.53
6	X	488	ILE	C-N-CA	6.05	129.07	120.53
2	C	228	GLN	CA-C-N	6.05	131.07	123.14
2	C	228	GLN	C-N-CA	6.05	131.07	123.14
4	V	180	GLU	CA-C-N	6.05	128.31	120.44
4	V	180	GLU	C-N-CA	6.05	128.31	120.44
4	V	681	MET	N-CA-C	6.05	119.35	109.24
7	P	29	ILE	CA-C-O	-6.05	114.76	121.17
3	U	713	ASN	CA-C-N	6.05	128.88	120.29
3	U	713	ASN	C-N-CA	6.05	128.88	120.29
6	X	356	LEU	O-C-N	-6.05	115.25	122.15
6	X	562	THR	N-CA-C	-6.05	104.69	111.28
3	D	143	HIS	CA-C-N	6.05	133.09	121.54
3	D	143	HIS	C-N-CA	6.05	133.09	121.54
6	G	217	GLN	N-CA-C	-6.05	98.42	108.34
4	E	86	ARG	N-CA-C	6.04	117.87	111.28
4	E	681	MET	N-CA-C	6.04	119.33	109.24
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	549	GLY	N-CA-C	-6.04	106.81	115.64
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
3	U	710	SER	N-CA-C	6.04	118.83	111.82
4	V	396	VAL	CA-C-N	6.04	128.29	120.44
4	V	396	VAL	C-N-CA	6.04	128.29	120.44
2	C	352	VAL	O-C-N	-6.04	115.02	122.57
3	D	713	ASN	CA-C-N	6.04	128.87	120.29
3	D	713	ASN	C-N-CA	6.04	128.87	120.29
5	F	60	ALA	N-CA-C	-6.04	99.22	108.76
6	G	766	ASP	N-CA-C	6.04	118.50	110.53
4	M	396	VAL	CA-C-N	6.04	128.29	120.44
4	M	396	VAL	C-N-CA	6.04	128.29	120.44
3	D	112	PRO	N-CA-C	-6.04	107.74	114.92
6	G	219	PHE	N-CA-C	-6.04	104.61	111.07
2	T	85	CYS	CA-C-O	-6.04	114.12	120.58
6	X	766	ASP	N-CA-C	6.04	118.50	110.53
3	D	323	GLN	N-CA-C	-6.03	101.27	110.14
2	T	657	ASN	N-CA-C	-6.03	98.58	108.41
3	U	323	GLN	N-CA-C	-6.03	101.28	110.14
3	U	367	VAL	N-CA-C	-6.03	99.47	108.46
5	F	87	GLU	CA-C-O	-6.03	114.16	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	112	PRO	N-CA-C	-6.03	107.75	114.92
3	L	367	VAL	N-CA-C	-6.03	99.48	108.46
6	O	356	LEU	O-C-N	-6.03	115.28	122.15
3	U	670	TRP	N-CA-C	6.03	117.93	111.36
4	V	117	GLU	N-CA-C	-6.03	97.96	110.80
5	F	104	MET	CA-C-N	6.03	129.47	120.31
5	F	104	MET	C-N-CA	6.03	129.47	120.31
4	M	681	MET	N-CA-C	6.03	119.30	109.24
7	Y	64	LEU	CA-C-O	6.03	128.16	121.11
7	H	64	LEU	CA-C-O	6.02	128.16	121.11
2	C	503	VAL	O-C-N	-6.02	116.13	123.00
3	D	549	GLY	N-CA-C	-6.02	106.85	115.64
4	E	129	CYS	CA-C-N	6.02	128.63	120.44
4	E	129	CYS	C-N-CA	6.02	128.63	120.44
6	O	562	THR	N-CA-C	-6.02	104.72	111.28
2	T	228	GLN	CA-C-N	6.02	131.03	123.14
2	T	228	GLN	C-N-CA	6.02	131.03	123.14
3	U	112	PRO	N-CA-C	-6.02	107.75	114.92
3	U	549	GLY	N-CA-C	-6.02	106.85	115.64
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	L	670	TRP	N-CA-C	6.02	117.92	111.36
4	E	117	GLU	N-CA-C	-6.02	97.98	110.80
4	M	86	ARG	N-CA-C	6.02	117.84	111.28
2	T	200	VAL	O-C-N	6.02	130.91	122.97
2	T	528	ILE	CA-C-N	6.02	129.30	120.82
2	T	528	ILE	C-N-CA	6.02	129.30	120.82
7	H	90	ILE	CA-C-N	6.02	125.70	119.56
7	H	90	ILE	C-N-CA	6.02	125.70	119.56
2	K	531	LYS	N-CA-C	-6.01	104.35	111.03
3	L	713	ASN	CA-C-N	6.01	128.83	120.29
3	L	713	ASN	C-N-CA	6.01	128.83	120.29
2	C	200	VAL	O-C-N	6.01	130.90	122.97
7	P	64	LEU	CA-C-O	6.01	128.14	121.11
3	U	763	PRO	CA-C-N	6.01	131.12	122.40
3	U	763	PRO	C-N-CA	6.01	131.12	122.40
6	X	874	MET	N-CA-C	-6.01	104.81	111.36
2	C	85	CYS	CA-C-O	-6.01	114.15	120.58
7	H	29	ILE	CA-C-O	-6.01	114.80	121.17
5	N	87	GLU	CA-C-O	-6.01	114.18	120.55
4	V	129	CYS	CA-C-N	6.01	128.61	120.44
4	V	129	CYS	C-N-CA	6.01	128.61	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	267	VAL	O-C-N	-6.01	116.02	121.91
5	W	104	MET	CA-C-N	6.01	129.44	120.31
5	W	104	MET	C-N-CA	6.01	129.44	120.31
5	N	104	MET	CA-C-N	6.00	129.44	120.31
5	N	104	MET	C-N-CA	6.00	129.44	120.31
6	G	874	MET	N-CA-C	-6.00	104.82	111.36
3	L	763	PRO	CA-C-N	6.00	131.10	122.40
3	L	763	PRO	C-N-CA	6.00	131.10	122.40
4	M	562	LEU	CA-C-O	6.00	126.78	120.42
4	E	215	ILE	N-CA-C	6.00	116.78	110.72
4	M	215	ILE	N-CA-C	6.00	116.78	110.72
3	D	763	PRO	CA-C-N	6.00	131.09	122.40
3	D	763	PRO	C-N-CA	6.00	131.09	122.40
2	K	85	CYS	CA-C-O	-5.99	114.17	120.58
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	M	222	GLY	N-CA-C	-5.99	98.98	113.18
6	G	232	TYR	N-CA-C	-5.99	106.13	113.50
4	M	117	GLU	N-CA-C	-5.99	98.04	110.80
4	V	141	GLU	CA-C-O	-5.99	114.49	120.90
2	C	531	LYS	N-CA-C	-5.99	104.38	111.03
7	P	101	GLU	CA-C-O	-5.99	113.08	119.97
6	G	128	LYS	CA-C-N	5.99	129.62	120.82
6	G	128	LYS	C-N-CA	5.99	129.62	120.82
2	T	458	TYR	CA-C-N	5.99	130.23	121.31
2	T	458	TYR	C-N-CA	5.99	130.23	121.31
6	X	946	ALA	N-CA-C	-5.99	100.48	108.74
2	K	458	TYR	CA-C-N	5.99	130.23	121.31
2	K	458	TYR	C-N-CA	5.99	130.23	121.31
3	L	614	PRO	CA-C-O	-5.99	114.60	121.96
6	O	946	ALA	N-CA-C	-5.99	100.48	108.74
4	E	562	LEU	CA-C-O	5.98	126.76	120.42
2	K	228	GLN	CA-C-N	5.98	130.98	123.14
2	K	228	GLN	C-N-CA	5.98	130.98	123.14
4	E	222	GLY	N-CA-C	-5.98	99.00	113.18
7	H	101	GLU	CA-C-O	-5.98	113.09	119.97
6	O	232	TYR	N-CA-C	-5.98	106.14	113.50
6	X	232	TYR	N-CA-C	-5.98	106.14	113.50
7	Y	121	TYR	CA-C-O	5.98	126.90	120.38
3	D	614	PRO	CA-C-O	-5.98	114.60	121.96
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	222	GLY	N-CA-C	-5.98	99.01	113.18
6	X	578	GLN	CA-C-N	5.98	130.62	122.07
6	X	578	GLN	C-N-CA	5.98	130.62	122.07
6	G	258	PRO	N-CA-C	-5.98	105.74	113.57
6	G	946	ALA	N-CA-C	-5.98	100.49	108.74
3	L	379	THR	CA-C-N	5.98	132.96	121.54
3	L	379	THR	C-N-CA	5.98	132.96	121.54
2	T	670	ASP	CA-C-N	5.98	128.78	120.29
2	T	670	ASP	C-N-CA	5.98	128.78	120.29
3	U	9	ARG	O-C-N	-5.98	115.34	122.63
3	D	670	TRP	N-CA-C	5.98	117.87	111.36
3	L	420	GLU	CA-C-N	5.98	131.59	123.11
3	L	420	GLU	C-N-CA	5.98	131.59	123.11
6	O	128	LYS	CA-C-N	5.98	129.60	120.82
6	O	128	LYS	C-N-CA	5.98	129.60	120.82
6	X	128	LYS	CA-C-N	5.98	129.60	120.82
6	X	128	LYS	C-N-CA	5.98	129.60	120.82
3	L	323	GLN	N-CA-C	-5.97	101.36	110.14
3	D	75	GLY	N-CA-C	-5.97	99.02	113.18
6	O	258	PRO	N-CA-C	-5.97	105.75	113.57
3	U	420	GLU	CA-C-N	5.97	131.59	123.11
3	U	420	GLU	C-N-CA	5.97	131.59	123.11
5	W	87	GLU	CA-C-O	-5.97	114.22	120.55
3	D	379	THR	CA-C-N	5.97	132.94	121.54
3	D	379	THR	C-N-CA	5.97	132.94	121.54
2	K	503	VAL	O-C-N	-5.97	116.19	123.00
3	U	75	GLY	N-CA-C	-5.97	99.03	113.18
3	L	9	ARG	O-C-N	-5.97	115.35	122.63
2	T	503	VAL	O-C-N	-5.97	116.20	123.00
3	U	379	THR	CA-C-N	5.97	132.94	121.54
3	U	379	THR	C-N-CA	5.97	132.94	121.54
2	T	531	LYS	N-CA-C	-5.96	104.41	111.03
3	U	472	ASP	CA-C-N	5.96	131.21	122.08
3	U	472	ASP	C-N-CA	5.96	131.21	122.08
4	V	215	ILE	N-CA-C	5.96	116.74	110.72
3	D	9	ARG	O-C-N	-5.96	115.36	122.63
2	K	688	GLN	CA-C-N	5.96	128.89	120.42
2	K	688	GLN	C-N-CA	5.96	128.89	120.42
6	O	874	MET	N-CA-C	-5.96	104.86	111.36
3	D	420	GLU	CA-C-N	5.96	131.57	123.11
3	D	420	GLU	C-N-CA	5.96	131.57	123.11
3	L	75	GLY	N-CA-C	-5.96	99.05	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	796	THR	CA-C-N	5.96	128.76	120.29
4	M	796	THR	C-N-CA	5.96	128.76	120.29
6	G	578	GLN	CA-C-N	5.96	130.59	122.07
6	G	578	GLN	C-N-CA	5.96	130.59	122.07
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
2	T	428	VAL	N-CA-C	-5.96	99.58	108.46
6	X	743	ALA	CA-C-O	-5.96	114.14	121.11
4	M	267	VAL	O-C-N	-5.96	116.07	121.91
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
3	U	37	GLY	N-CA-C	-5.95	107.54	115.40
2	T	160	ARG	N-CA-C	-5.95	99.70	109.40
3	U	614	PRO	CA-C-O	-5.95	114.64	121.96
6	X	258	PRO	N-CA-C	-5.95	105.77	113.57
4	E	141	GLU	CA-C-O	-5.95	114.53	120.90
4	M	141	GLU	CA-C-O	-5.95	114.53	120.90
6	O	829	ARG	CA-C-N	5.95	128.25	120.28
6	O	829	ARG	C-N-CA	5.95	128.25	120.28
2	T	688	GLN	CA-C-N	5.95	128.87	120.42
2	T	688	GLN	C-N-CA	5.95	128.87	120.42
3	D	434	TYR	N-CA-C	-5.95	99.31	109.24
3	L	434	TYR	N-CA-C	-5.95	99.31	109.24
6	O	743	ALA	CA-C-O	-5.95	114.16	121.11
2	C	438	LYS	O-C-N	5.94	130.22	123.27
7	H	6	ALA	N-CA-C	-5.94	98.72	108.76
7	P	6	ALA	N-CA-C	-5.94	98.72	108.76
2	C	670	ASP	CA-C-N	5.94	128.73	120.29
2	C	670	ASP	C-N-CA	5.94	128.73	120.29
7	H	121	TYR	CA-C-O	5.94	126.86	120.38
5	N	87	GLU	O-C-N	5.94	128.42	122.12
6	X	568	TYR	CA-C-N	5.94	129.06	120.98
6	X	568	TYR	C-N-CA	5.94	129.06	120.98
6	G	568	TYR	CA-C-N	5.94	129.06	120.98
6	G	568	TYR	C-N-CA	5.94	129.06	120.98
3	L	472	ASP	CA-C-N	5.94	131.17	122.08
3	L	472	ASP	C-N-CA	5.94	131.17	122.08
4	V	562	LEU	CA-C-O	5.94	126.72	120.42
6	G	366	LYS	CA-C-N	5.94	132.34	122.54
6	G	366	LYS	C-N-CA	5.94	132.34	122.54
6	G	743	ALA	CA-C-O	-5.94	114.16	121.11
3	L	37	GLY	N-CA-C	-5.94	107.56	115.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	94	MET	N-CA-C	-5.94	98.97	109.06
7	Y	6	ALA	N-CA-C	-5.94	98.72	108.76
6	O	568	TYR	CA-C-N	5.94	129.05	120.98
6	O	568	TYR	C-N-CA	5.94	129.05	120.98
3	D	37	GLY	N-CA-C	-5.93	107.57	115.40
4	E	796	THR	CA-C-N	5.93	128.72	120.29
4	E	796	THR	C-N-CA	5.93	128.72	120.29
4	M	815	ARG	CA-C-N	5.93	132.77	122.56
4	M	815	ARG	C-N-CA	5.93	132.77	122.56
6	O	366	LYS	CA-C-N	5.93	132.33	122.54
6	O	366	LYS	C-N-CA	5.93	132.33	122.54
7	Y	101	GLU	CA-C-O	-5.93	113.15	119.97
6	G	292	GLU	N-CA-C	-5.93	97.64	108.02
2	K	160	ARG	N-CA-C	-5.93	99.73	109.40
2	T	787	ASP	N-CA-C	-5.93	106.00	113.18
6	X	366	LYS	CA-C-N	5.93	132.32	122.54
6	X	366	LYS	C-N-CA	5.93	132.32	122.54
6	X	888	THR	CA-C-N	5.93	132.86	121.54
6	X	888	THR	C-N-CA	5.93	132.86	121.54
3	D	94	MET	N-CA-C	-5.93	98.98	109.06
2	T	707	TYR	N-CA-C	5.93	118.53	111.71
6	G	829	ARG	CA-C-N	5.93	128.22	120.28
6	G	829	ARG	C-N-CA	5.93	128.22	120.28
4	M	314	VAL	O-C-N	-5.93	116.19	122.83
6	X	829	ARG	CA-C-N	5.93	128.22	120.28
6	X	829	ARG	C-N-CA	5.93	128.22	120.28
6	X	926	ILE	O-C-N	5.93	129.48	123.20
3	L	94	MET	N-CA-C	-5.92	98.99	109.06
3	L	247	GLY	CA-C-O	5.92	126.80	121.47
3	U	247	GLY	CA-C-O	5.92	126.80	121.47
4	V	796	THR	CA-C-N	5.92	128.70	120.29
4	V	796	THR	C-N-CA	5.92	128.70	120.29
6	X	292	GLU	N-CA-C	-5.92	97.65	108.02
5	F	87	GLU	O-C-N	5.92	128.40	122.12
2	K	670	ASP	CA-C-N	5.92	128.70	120.29
2	K	670	ASP	C-N-CA	5.92	128.70	120.29
7	P	121	TYR	CA-C-O	5.92	126.83	120.38
8	Q	266	PRO	O-C-N	5.92	123.93	121.15
3	U	434	TYR	N-CA-C	-5.92	99.35	109.24
2	K	428	VAL	N-CA-C	-5.92	99.64	108.46
2	K	707	TYR	N-CA-C	5.92	118.52	111.71
6	G	888	THR	CA-C-N	5.92	132.84	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	888	THR	C-N-CA	5.92	132.84	121.54
6	O	292	GLU	N-CA-C	-5.92	97.66	108.02
4	V	815	ARG	CA-C-N	5.92	132.74	122.56
4	V	815	ARG	C-N-CA	5.92	132.74	122.56
3	D	218	ASN	O-C-N	5.92	130.76	122.36
3	D	472	ASP	CA-C-N	5.92	131.13	122.08
3	D	472	ASP	C-N-CA	5.92	131.13	122.08
4	M	224	LYS	N-CA-C	-5.92	103.39	111.56
2	C	428	VAL	N-CA-C	-5.92	99.65	108.46
2	C	707	TYR	N-CA-C	5.91	118.51	111.71
4	E	267	VAL	O-C-N	-5.91	116.11	121.91
2	T	438	LYS	O-C-N	5.91	130.19	123.27
2	C	160	ARG	N-CA-C	-5.91	99.76	109.40
4	M	481	VAL	N-CA-C	5.91	116.09	110.42
6	G	926	ILE	O-C-N	5.91	129.46	123.20
6	O	888	THR	CA-C-N	5.91	132.82	121.54
6	O	888	THR	C-N-CA	5.91	132.82	121.54
4	V	164	LEU	N-CA-C	-5.91	104.92	111.36
3	D	455	THR	N-CA-C	5.91	119.33	111.30
2	K	475	PHE	O-C-N	5.91	130.50	123.24
3	L	452	TRP	N-CA-C	-5.91	105.99	112.72
6	O	134	GLU	CA-C-N	5.91	125.45	119.19
6	O	134	GLU	C-N-CA	5.91	125.45	119.19
6	O	394	PHE	CA-C-O	-5.90	113.65	120.03
3	D	247	GLY	CA-C-O	5.90	126.78	121.47
6	G	254	GLN	N-CA-C	-5.90	106.08	113.28
3	U	772	LEU	CA-C-O	5.90	126.81	120.55
4	V	481	VAL	N-CA-C	5.90	116.09	110.42
4	E	314	VAL	O-C-N	-5.90	116.22	122.83
3	L	772	LEU	CA-C-O	5.90	126.80	120.55
6	O	206	LEU	O-C-N	5.90	128.37	122.12
4	E	815	ARG	CA-C-N	5.90	132.70	122.56
4	E	815	ARG	C-N-CA	5.90	132.70	122.56
2	K	787	ASP	N-CA-C	-5.90	106.04	113.18
3	L	393	GLU	N-CA-C	-5.90	100.09	109.23
3	L	455	THR	N-CA-C	5.90	119.32	111.30
3	U	452	TRP	N-CA-C	-5.90	106.00	112.72
6	X	751	GLN	CA-C-N	5.90	132.49	123.47
6	X	751	GLN	C-N-CA	5.90	132.49	123.47
4	M	164	LEU	N-CA-C	-5.89	104.94	111.36
6	O	926	ILE	O-C-N	5.89	129.44	123.20
6	X	150	TYR	CA-C-O	-5.89	114.63	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	316	ARG	CA-C-N	5.89	132.31	121.70
6	X	316	ARG	C-N-CA	5.89	132.31	121.70
6	G	394	PHE	CA-C-O	-5.89	113.67	120.03
4	E	467	ASN	N-CA-C	-5.89	100.36	109.14
3	L	218	ASN	O-C-N	5.89	130.72	122.36
2	T	605	ASN	CA-C-N	5.89	131.18	122.82
2	T	605	ASN	C-N-CA	5.89	131.18	122.82
4	V	377	VAL	N-CA-C	-5.89	104.77	110.72
4	V	729	LYS	CA-C-O	5.89	127.06	120.70
3	D	344	ALA	CA-C-N	5.89	128.39	120.50
3	D	344	ALA	C-N-CA	5.89	128.39	120.50
2	K	438	LYS	O-C-N	5.89	130.16	123.27
6	O	128	LYS	O-C-N	5.89	129.40	122.34
6	O	254	GLN	N-CA-C	-5.89	106.10	113.28
6	O	751	GLN	CA-C-N	5.89	132.48	123.47
6	O	751	GLN	C-N-CA	5.89	132.48	123.47
2	C	605	ASN	CA-C-N	5.88	131.18	122.82
2	C	605	ASN	C-N-CA	5.88	131.18	122.82
6	O	512	GLN	N-CA-C	5.88	117.69	111.28
4	V	467	ASN	N-CA-C	-5.88	100.37	109.14
6	X	206	LEU	O-C-N	5.88	128.36	122.12
6	G	150	TYR	CA-C-O	-5.88	114.64	120.70
4	M	524	VAL	CA-C-N	5.88	128.44	120.44
4	M	524	VAL	C-N-CA	5.88	128.44	120.44
5	N	115	LEU	CA-C-N	5.88	128.16	120.28
5	N	115	LEU	C-N-CA	5.88	128.16	120.28
6	X	394	PHE	CA-C-O	-5.88	113.68	120.03
3	D	452	TRP	N-CA-C	-5.88	106.02	112.72
3	U	455	THR	N-CA-C	5.88	119.30	111.30
6	G	206	LEU	O-C-N	5.88	128.35	122.12
3	U	344	ALA	CA-C-N	5.88	128.38	120.50
3	U	344	ALA	C-N-CA	5.88	128.38	120.50
6	X	128	LYS	O-C-N	5.88	129.39	122.34
6	X	254	GLN	N-CA-C	-5.88	106.11	113.28
6	O	316	ARG	CA-C-N	5.88	132.28	121.70
6	O	316	ARG	C-N-CA	5.88	132.28	121.70
6	X	134	GLU	CA-C-N	5.88	125.42	119.19
6	X	134	GLU	C-N-CA	5.88	125.42	119.19
3	L	344	ALA	CA-C-N	5.88	128.37	120.50
3	L	344	ALA	C-N-CA	5.88	128.37	120.50
3	U	218	ASN	O-C-N	5.88	130.70	122.36
6	G	316	ARG	CA-C-N	5.87	132.27	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	316	ARG	C-N-CA	5.87	132.27	121.70
4	V	224	LYS	N-CA-C	-5.87	103.45	111.56
4	V	314	VAL	O-C-N	-5.87	116.25	122.83
2	C	475	PHE	O-C-N	5.87	130.46	123.24
3	D	772	LEU	CA-C-O	5.87	126.77	120.55
3	U	551	ILE	N-CA-C	-5.87	99.89	108.11
3	D	393	GLU	N-CA-C	-5.87	100.13	109.23
4	E	377	VAL	N-CA-C	-5.87	104.79	110.72
5	F	115	LEU	CA-C-N	5.87	128.14	120.28
5	F	115	LEU	C-N-CA	5.87	128.14	120.28
4	M	293	GLN	CA-C-N	5.87	128.42	120.44
4	M	293	GLN	C-N-CA	5.87	128.42	120.44
5	W	115	LEU	CA-C-N	5.87	128.14	120.28
5	W	115	LEU	C-N-CA	5.87	128.14	120.28
6	G	302	LEU	O-C-N	5.87	130.39	122.59
3	D	551	ILE	N-CA-C	-5.87	99.90	108.11
4	E	164	LEU	N-CA-C	-5.87	104.97	111.36
4	E	224	LYS	N-CA-C	-5.87	103.47	111.56
3	L	551	ILE	N-CA-C	-5.87	99.90	108.11
2	T	76	LYS	N-CA-C	-5.87	100.23	109.50
4	E	524	VAL	CA-C-N	5.86	128.41	120.44
4	E	524	VAL	C-N-CA	5.86	128.41	120.44
4	E	729	LYS	CA-C-O	5.86	127.03	120.70
4	M	467	ASN	N-CA-C	-5.86	100.40	109.14
4	V	829	LEU	N-CA-C	-5.86	99.63	109.07
2	K	605	ASN	CA-C-N	5.86	131.14	122.82
2	K	605	ASN	C-N-CA	5.86	131.14	122.82
2	K	759	TYR	CA-C-O	-5.86	114.66	120.70
3	U	595	GLN	CA-C-N	5.86	128.06	120.44
3	U	595	GLN	C-N-CA	5.86	128.06	120.44
4	E	481	VAL	N-CA-C	5.86	116.05	110.42
4	M	829	LEU	N-CA-C	-5.86	99.63	109.07
6	G	751	GLN	CA-C-N	5.86	132.44	123.47
6	G	751	GLN	C-N-CA	5.86	132.44	123.47
2	K	451	PRO	CA-C-O	-5.86	114.63	121.95
2	C	787	ASP	N-CA-C	-5.86	106.09	113.18
3	D	406	ARG	O-C-N	5.86	130.06	123.27
4	E	749	ASP	N-CA-C	-5.86	100.17	109.07
6	G	512	GLN	N-CA-C	5.86	117.67	111.28
2	K	684	GLN	CA-C-N	5.86	132.89	121.41
2	K	684	GLN	C-N-CA	5.86	132.89	121.41
4	M	749	ASP	N-CA-C	-5.86	100.17	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	214	ASP	CA-C-O	-5.86	114.87	120.90
4	V	524	VAL	CA-C-N	5.86	128.41	120.44
4	V	524	VAL	C-N-CA	5.86	128.41	120.44
3	D	32	ALA	N-CA-C	-5.86	99.46	109.24
4	E	531	TYR	CA-C-N	5.85	128.05	120.44
4	E	531	TYR	C-N-CA	5.85	128.05	120.44
4	E	234	ARG	N-CA-C	5.85	117.66	111.28
4	E	357	ILE	CA-C-N	5.85	128.05	120.44
4	E	357	ILE	C-N-CA	5.85	128.05	120.44
4	E	829	LEU	N-CA-C	-5.85	99.65	109.07
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
4	M	377	VAL	N-CA-C	-5.85	104.81	110.72
4	V	293	GLN	CA-C-N	5.85	128.40	120.44
4	V	293	GLN	C-N-CA	5.85	128.40	120.44
2	K	76	LYS	N-CA-C	-5.85	100.26	109.50
3	U	32	ALA	N-CA-C	-5.85	99.47	109.24
3	U	393	GLU	N-CA-C	-5.85	100.16	109.23
3	L	406	ARG	O-C-N	5.85	130.06	123.27
2	T	451	PRO	CA-C-O	-5.85	114.64	121.95
2	K	934	GLY	N-CA-C	-5.85	107.03	115.27
3	U	414	ILE	N-CA-C	-5.85	100.06	108.48
2	T	934	GLY	N-CA-C	-5.84	107.03	115.27
5	W	87	GLU	O-C-N	5.84	128.31	122.12
7	Y	116	ILE	CA-C-N	-5.84	114.68	122.98
7	Y	116	ILE	C-N-CA	-5.84	114.68	122.98
8	Z	266	PRO	O-C-N	5.84	123.90	121.15
3	L	32	ALA	N-CA-C	-5.84	99.48	109.24
2	T	759	TYR	CA-C-O	-5.84	114.68	120.70
2	T	684	GLN	CA-C-N	5.84	132.86	121.41
2	T	684	GLN	C-N-CA	5.84	132.86	121.41
2	C	688	GLN	N-CA-C	-5.84	104.82	111.07
2	T	297	LEU	CA-C-O	-5.84	114.80	121.40
2	T	475	PHE	O-C-N	5.84	130.42	123.24
3	U	416	LYS	O-C-N	-5.84	116.48	123.31
4	V	283	LYS	CA-C-N	5.84	129.19	120.31
4	V	283	LYS	C-N-CA	5.84	129.19	120.31
4	V	357	ILE	CA-C-N	5.84	128.03	120.44
4	V	357	ILE	C-N-CA	5.84	128.03	120.44
4	V	531	TYR	CA-C-N	5.84	128.03	120.44
4	V	531	TYR	C-N-CA	5.84	128.03	120.44
4	E	293	GLN	CA-C-N	5.84	128.38	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	293	GLN	C-N-CA	5.84	128.38	120.44
3	D	414	ILE	N-CA-C	-5.84	100.08	108.48
3	L	414	ILE	N-CA-C	-5.84	100.07	108.48
4	V	749	ASP	N-CA-C	-5.84	100.20	109.07
6	X	302	LEU	O-C-N	5.84	130.35	122.59
2	T	688	GLN	N-CA-C	-5.83	104.83	111.07
2	C	76	LYS	N-CA-C	-5.83	100.28	109.50
2	C	684	GLN	CA-C-N	5.83	132.84	121.41
2	C	684	GLN	C-N-CA	5.83	132.84	121.41
4	M	283	LYS	CA-C-N	5.83	129.18	120.31
4	M	283	LYS	C-N-CA	5.83	129.18	120.31
2	C	759	TYR	CA-C-O	-5.83	114.69	120.70
7	H	116	ILE	CA-C-N	-5.83	114.70	122.98
7	H	116	ILE	C-N-CA	-5.83	114.70	122.98
3	L	595	GLN	CA-C-N	5.83	128.02	120.44
3	L	595	GLN	C-N-CA	5.83	128.02	120.44
4	E	315	ALA	CA-C-N	5.83	131.84	121.75
4	E	315	ALA	C-N-CA	5.83	131.84	121.75
3	L	618	ARG	N-CA-C	5.83	117.63	111.28
4	M	234	ARG	N-CA-C	5.83	117.63	111.28
4	E	306	ALA	CA-C-N	5.83	128.01	120.44
4	E	306	ALA	C-N-CA	5.83	128.01	120.44
4	M	306	ALA	CA-C-N	5.83	128.01	120.44
4	M	306	ALA	C-N-CA	5.83	128.01	120.44
6	X	216	VAL	CA-C-N	5.83	130.98	122.77
6	X	216	VAL	C-N-CA	5.83	130.98	122.77
6	G	360	LEU	N-CA-C	5.82	117.63	111.28
3	L	625	LEU	CA-C-N	5.82	128.08	120.28
3	L	625	LEU	C-N-CA	5.82	128.08	120.28
4	M	531	TYR	CA-C-N	5.82	128.01	120.44
4	M	531	TYR	C-N-CA	5.82	128.01	120.44
6	X	512	GLN	N-CA-C	5.82	117.63	111.28
3	D	625	LEU	CA-C-N	5.82	128.08	120.28
3	D	625	LEU	C-N-CA	5.82	128.08	120.28
6	O	54	LYS	N-CA-C	5.82	118.80	110.24
4	E	365	SER	CA-C-N	5.82	128.56	120.29
4	E	365	SER	C-N-CA	5.82	128.56	120.29
4	M	315	ALA	CA-C-N	5.82	131.82	121.75
4	M	315	ALA	C-N-CA	5.82	131.82	121.75
3	U	625	LEU	CA-C-N	5.82	128.08	120.28
3	U	625	LEU	C-N-CA	5.82	128.08	120.28
6	X	214	ASP	CA-C-O	-5.82	114.91	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	234	ARG	N-CA-C	5.82	117.62	111.28
4	V	655	PHE	CA-C-N	5.82	128.66	120.28
4	V	655	PHE	C-N-CA	5.82	128.66	120.28
6	G	128	LYS	O-C-N	5.82	129.32	122.34
2	K	100	PHE	O-C-N	-5.82	116.52	123.27
4	M	310	THR	N-CA-C	-5.82	98.41	110.80
6	O	587	LEU	CA-C-N	5.82	128.66	120.28
6	O	587	LEU	C-N-CA	5.82	128.66	120.28
3	U	406	ARG	O-C-N	5.82	130.02	123.27
2	C	451	PRO	CA-C-O	-5.82	114.68	121.95
3	D	595	GLN	CA-C-N	5.82	128.00	120.44
3	D	595	GLN	C-N-CA	5.82	128.00	120.44
4	E	344	ALA	CA-C-O	-5.82	114.39	120.55
4	E	655	PHE	CA-C-N	5.82	128.65	120.28
4	E	655	PHE	C-N-CA	5.82	128.65	120.28
2	K	344	LEU	CA-C-N	5.82	132.65	121.54
2	K	344	LEU	C-N-CA	5.82	132.65	121.54
6	O	302	LEU	O-C-N	5.82	130.33	122.59
7	P	116	ILE	CA-C-N	-5.82	114.72	122.98
7	P	116	ILE	C-N-CA	-5.82	114.72	122.98
2	T	100	PHE	O-C-N	-5.82	116.52	123.27
4	V	459	LEU	CA-C-N	5.82	126.40	119.94
4	V	459	LEU	C-N-CA	5.82	126.40	119.94
3	D	475	GLU	N-CA-C	-5.81	106.73	113.88
4	M	365	SER	CA-C-N	5.81	128.55	120.29
4	M	365	SER	C-N-CA	5.81	128.55	120.29
3	D	344	ALA	CA-C-O	-5.81	113.46	120.32
3	U	618	ARG	N-CA-C	5.81	117.61	111.28
6	X	54	LYS	N-CA-C	5.81	118.78	110.24
3	D	744	LEU	CA-C-N	5.81	128.54	120.29
3	D	744	LEU	C-N-CA	5.81	128.54	120.29
6	G	54	LYS	N-CA-C	5.81	118.78	110.24
6	O	196	MET	N-CA-C	-5.81	96.01	107.69
2	C	613	HIS	CA-C-N	5.81	128.65	120.28
2	C	613	HIS	C-N-CA	5.81	128.65	120.28
4	E	459	LEU	CA-C-N	5.81	126.39	119.94
4	E	459	LEU	C-N-CA	5.81	126.39	119.94
6	G	149	SER	CA-C-N	5.81	128.34	120.44
6	G	149	SER	C-N-CA	5.81	128.34	120.44
2	K	297	LEU	CA-C-O	-5.81	114.83	121.40
4	M	729	LYS	CA-C-O	5.81	126.97	120.70
4	M	357	ILE	CA-C-N	5.81	127.99	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	357	ILE	C-N-CA	5.81	127.99	120.44
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
4	V	365	SER	CA-C-N	5.81	128.54	120.29
4	V	365	SER	C-N-CA	5.81	128.54	120.29
6	X	587	LEU	CA-C-N	5.81	128.64	120.28
6	X	587	LEU	C-N-CA	5.81	128.64	120.28
7	H	76	ILE	N-CA-C	5.80	115.99	110.42
2	T	344	LEU	CA-C-N	5.80	132.63	121.54
2	T	344	LEU	C-N-CA	5.80	132.63	121.54
2	C	100	PHE	O-C-N	-5.80	116.54	123.27
3	U	475	GLU	N-CA-C	-5.80	106.74	113.88
4	E	283	LYS	CA-C-N	5.80	129.13	120.31
4	E	283	LYS	C-N-CA	5.80	129.13	120.31
4	E	349	LEU	CA-C-N	5.80	128.53	120.29
4	E	349	LEU	C-N-CA	5.80	128.53	120.29
2	K	613	HIS	CA-C-N	5.80	128.63	120.28
2	K	613	HIS	C-N-CA	5.80	128.63	120.28
6	O	360	LEU	N-CA-C	5.80	117.60	111.28
4	V	315	ALA	CA-C-N	5.80	131.79	121.75
4	V	315	ALA	C-N-CA	5.80	131.79	121.75
2	C	344	LEU	CA-C-N	5.80	132.62	121.54
2	C	344	LEU	C-N-CA	5.80	132.62	121.54
3	D	416	LYS	O-C-N	-5.80	116.52	123.31
4	E	310	THR	N-CA-C	-5.80	98.45	110.80
6	G	587	LEU	CA-C-N	5.80	128.63	120.28
6	G	587	LEU	C-N-CA	5.80	128.63	120.28
4	V	310	THR	N-CA-C	-5.80	98.45	110.80
4	M	655	PHE	CA-C-N	5.80	128.63	120.28
4	M	655	PHE	C-N-CA	5.80	128.63	120.28
2	C	297	LEU	CA-C-O	-5.80	114.85	121.40
2	K	53	PRO	CA-C-N	5.80	130.81	123.10
2	K	53	PRO	C-N-CA	5.80	130.81	123.10
3	U	344	ALA	CA-C-O	-5.80	113.48	120.32
6	G	216	VAL	CA-C-N	5.79	130.94	122.77
6	G	216	VAL	C-N-CA	5.79	130.94	122.77
3	L	475	GLU	N-CA-C	-5.79	106.75	113.88
3	D	618	ARG	N-CA-C	5.79	117.60	111.28
3	U	697	GLY	CA-C-N	5.79	126.37	120.00
3	U	697	GLY	C-N-CA	5.79	126.37	120.00
3	D	697	GLY	CA-C-N	5.79	126.37	120.00
3	D	697	GLY	C-N-CA	5.79	126.37	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	214	ASP	CA-C-O	-5.79	114.94	120.90
3	L	344	ALA	CA-C-O	-5.79	113.49	120.32
3	L	350	SER	N-CA-C	5.79	123.13	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
3	U	614	PRO	CA-C-N	5.79	132.60	121.54
3	U	614	PRO	C-N-CA	5.79	132.60	121.54
4	V	349	LEU	CA-C-N	5.79	128.51	120.29
4	V	349	LEU	C-N-CA	5.79	128.51	120.29
2	K	688	GLN	N-CA-C	-5.79	104.88	111.07
6	X	360	LEU	N-CA-C	5.79	117.59	111.28
7	P	76	ILE	N-CA-C	5.79	115.97	110.42
2	T	53	PRO	CA-C-N	5.79	130.79	123.10
2	T	53	PRO	C-N-CA	5.79	130.79	123.10
2	T	613	HIS	CA-C-N	5.79	128.61	120.28
2	T	613	HIS	C-N-CA	5.79	128.61	120.28
3	U	294	SER	N-CA-C	-5.78	100.51	109.24
6	G	196	MET	N-CA-C	-5.78	96.07	107.69
6	X	149	SER	CA-C-N	5.78	128.30	120.44
6	X	149	SER	C-N-CA	5.78	128.30	120.44
2	K	316	VAL	N-CA-C	-5.78	100.08	108.17
6	X	196	MET	N-CA-C	-5.78	96.08	107.69
4	E	653	HIS	CA-C-O	-5.78	114.46	120.70
3	L	416	LYS	O-C-N	-5.78	116.55	123.31
4	E	624	GLN	N-CA-C	-5.77	106.58	113.97
4	E	793	THR	N-CA-C	-5.77	105.82	112.92
4	E	810	MET	O-C-N	5.77	130.31	123.27
6	G	924	VAL	N-CA-C	-5.77	100.09	108.17
4	M	349	LEU	CA-C-N	5.77	128.48	120.29
4	M	349	LEU	C-N-CA	5.77	128.48	120.29
4	M	624	GLN	N-CA-C	-5.77	106.58	113.97
6	O	216	VAL	CA-C-N	5.77	130.90	122.77
6	O	216	VAL	C-N-CA	5.77	130.90	122.77
3	U	350	SER	N-CA-C	5.77	123.09	110.80
3	L	614	PRO	CA-C-N	5.77	132.56	121.54
3	L	614	PRO	C-N-CA	5.77	132.56	121.54
6	X	924	VAL	N-CA-C	-5.77	100.09	108.17
5	N	103	GLN	CA-C-N	5.77	127.94	120.44
5	N	103	GLN	C-N-CA	5.77	127.94	120.44
3	D	618	ARG	CA-C-N	5.76	128.00	120.28
3	D	618	ARG	C-N-CA	5.76	128.00	120.28
4	E	304	ARG	CA-C-O	-5.76	113.58	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	304	ARG	CA-C-O	-5.76	113.59	120.10
4	M	793	THR	N-CA-C	-5.76	105.83	112.92
6	O	248	CYS	CA-C-N	5.76	128.60	120.42
6	O	248	CYS	C-N-CA	5.76	128.60	120.42
4	V	344	ALA	CA-C-O	-5.76	114.44	120.55
2	C	53	PRO	CA-C-N	5.76	130.76	123.10
2	C	53	PRO	C-N-CA	5.76	130.76	123.10
3	D	350	SER	N-CA-C	5.76	123.07	110.80
3	L	294	SER	N-CA-C	-5.76	100.54	109.24
4	V	793	THR	N-CA-C	-5.76	105.83	112.92
4	V	810	MET	O-C-N	5.76	130.30	123.27
3	L	542	ARG	N-CA-C	-5.76	100.79	109.95
4	M	645	GLU	N-CA-C	-5.76	104.24	112.13
2	T	316	VAL	N-CA-C	-5.76	100.11	108.17
3	U	744	LEU	CA-C-N	5.76	128.47	120.29
3	U	744	LEU	C-N-CA	5.76	128.47	120.29
4	V	624	GLN	N-CA-C	-5.76	106.60	113.97
4	M	810	MET	O-C-N	5.76	130.29	123.27
5	W	103	GLN	CA-C-N	5.76	127.92	120.44
5	W	103	GLN	C-N-CA	5.76	127.92	120.44
4	M	511	VAL	CA-C-N	5.75	128.27	120.44
4	M	511	VAL	C-N-CA	5.75	128.27	120.44
3	D	614	PRO	CA-C-N	5.75	132.53	121.54
3	D	614	PRO	C-N-CA	5.75	132.53	121.54
3	D	294	SER	N-CA-C	-5.75	100.55	109.24
6	G	325	ILE	O-C-N	-5.75	116.29	121.87
3	L	697	GLY	CA-C-N	5.75	126.33	120.00
3	L	697	GLY	C-N-CA	5.75	126.33	120.00
3	U	618	ARG	CA-C-N	5.75	127.99	120.28
3	U	618	ARG	C-N-CA	5.75	127.99	120.28
6	X	248	CYS	CA-C-N	5.75	128.59	120.42
6	X	248	CYS	C-N-CA	5.75	128.59	120.42
2	C	316	VAL	N-CA-C	-5.75	100.12	108.17
6	G	521	TYR	N-CA-C	-5.75	105.02	111.28
6	O	924	VAL	N-CA-C	-5.75	100.12	108.17
3	D	542	ARG	N-CA-C	-5.75	100.81	109.95
4	M	344	ALA	CA-C-O	-5.75	114.46	120.55
6	O	379	TYR	CA-C-O	5.75	126.64	120.55
5	F	103	GLN	CA-C-N	5.74	127.91	120.44
5	F	103	GLN	C-N-CA	5.74	127.91	120.44
4	M	459	LEU	CA-C-N	5.74	126.31	119.94
4	M	459	LEU	C-N-CA	5.74	126.31	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	106	THR	CA-C-N	5.74	127.91	120.44
4	V	106	THR	C-N-CA	5.74	127.91	120.44
4	M	653	HIS	CA-C-O	-5.74	114.50	120.70
4	V	653	HIS	CA-C-O	-5.74	114.50	120.70
4	M	106	THR	CA-C-N	5.74	127.90	120.44
4	M	106	THR	C-N-CA	5.74	127.90	120.44
2	T	662	LEU	O-C-N	5.74	128.20	122.12
3	U	542	ARG	N-CA-C	-5.74	100.83	109.95
7	Y	76	ILE	N-CA-C	5.74	115.93	110.42
4	E	511	VAL	CA-C-N	5.74	128.24	120.44
4	E	511	VAL	C-N-CA	5.74	128.24	120.44
4	M	697	SER	O-C-N	-5.74	116.70	123.41
4	V	645	GLU	N-CA-C	-5.73	104.27	112.13
4	E	645	GLU	N-CA-C	-5.73	104.28	112.13
2	K	417	THR	N-CA-C	-5.73	100.58	109.24
6	O	787	PRO	N-CA-C	-5.73	102.19	111.19
6	G	55	LEU	O-C-N	-5.73	114.73	121.32
6	G	248	CYS	CA-C-N	5.73	128.56	120.42
6	G	248	CYS	C-N-CA	5.73	128.56	120.42
4	V	511	VAL	CA-C-N	5.73	128.23	120.44
4	V	511	VAL	C-N-CA	5.73	128.23	120.44
4	M	304	ARG	CA-C-O	-5.73	113.63	120.10
3	U	205	GLY	N-CA-C	-5.72	102.05	111.38
4	V	697	SER	O-C-N	-5.72	116.71	123.41
2	K	662	LEU	O-C-N	5.72	128.19	122.12
3	L	618	ARG	CA-C-N	5.72	127.95	120.28
3	L	618	ARG	C-N-CA	5.72	127.95	120.28
4	M	424	ILE	O-C-N	5.72	127.42	121.87
6	X	521	TYR	N-CA-C	-5.72	105.04	111.28
2	C	662	LEU	O-C-N	5.72	128.18	122.12
5	F	118	MET	CA-C-N	5.72	127.88	120.44
5	F	118	MET	C-N-CA	5.72	127.88	120.44
3	D	205	GLY	N-CA-C	-5.72	102.06	111.38
5	N	118	MET	CA-C-N	5.72	127.87	120.44
5	N	118	MET	C-N-CA	5.72	127.87	120.44
6	O	55	LEU	O-C-N	-5.72	114.75	121.32
2	T	184	ILE	CA-C-N	5.72	129.48	121.02
2	T	184	ILE	C-N-CA	5.72	129.48	121.02
2	C	417	THR	N-CA-C	-5.71	100.61	109.24
6	O	325	ILE	O-C-N	-5.71	116.33	121.87
2	T	417	THR	N-CA-C	-5.71	100.61	109.24
3	U	762	LEU	N-CA-C	5.71	122.44	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	379	TYR	CA-C-O	5.71	126.61	120.55
3	U	481	THR	CA-C-O	-5.71	115.16	121.33
4	V	832	GLY	N-CA-C	-5.71	102.35	110.63
4	V	424	ILE	O-C-N	5.71	127.41	121.87
3	L	762	LEU	N-CA-C	5.71	122.43	109.81
2	T	667	ALA	CA-C-N	5.71	132.14	122.26
2	T	667	ALA	C-N-CA	5.71	132.14	122.26
6	X	395	PRO	O-C-N	5.71	129.37	122.23
3	L	205	GLY	N-CA-C	-5.71	102.08	111.38
4	M	832	GLY	N-CA-C	-5.71	102.36	110.63
3	D	481	THR	CA-C-O	-5.71	115.17	121.33
4	E	106	THR	CA-C-N	5.71	127.86	120.44
4	E	106	THR	C-N-CA	5.71	127.86	120.44
4	E	697	SER	O-C-N	-5.71	116.73	123.41
4	E	832	GLY	N-CA-C	-5.71	102.36	110.63
3	D	762	LEU	N-CA-C	5.70	122.42	109.81
5	W	118	MET	CA-C-N	5.70	127.85	120.44
5	W	118	MET	C-N-CA	5.70	127.85	120.44
6	X	361	LYS	CA-C-N	5.70	128.39	120.29
6	X	361	LYS	C-N-CA	5.70	128.39	120.29
2	C	313	GLY	N-CA-C	-5.70	102.88	110.58
6	O	361	LYS	CA-C-N	5.70	128.38	120.29
6	O	361	LYS	C-N-CA	5.70	128.38	120.29
2	C	184	ILE	CA-C-N	5.70	129.45	121.02
2	C	184	ILE	C-N-CA	5.70	129.45	121.02
4	M	162	SER	CA-C-N	5.70	127.91	120.28
4	M	162	SER	C-N-CA	5.70	127.91	120.28
6	O	521	TYR	N-CA-C	-5.70	105.07	111.28
6	X	55	LEU	O-C-N	-5.70	114.77	121.32
6	X	379	TYR	CA-C-O	5.70	126.59	120.55
4	M	632	SER	CA-C-N	5.69	129.31	120.60
4	M	632	SER	C-N-CA	5.69	129.31	120.60
6	X	787	PRO	N-CA-C	-5.69	102.25	111.19
4	E	162	SER	CA-C-N	5.69	127.91	120.28
4	E	162	SER	C-N-CA	5.69	127.91	120.28
2	K	313	GLY	N-CA-C	-5.69	102.90	110.58
7	P	61	MET	N-CA-C	-5.69	97.96	107.80
4	E	133	ASP	N-CA-C	-5.69	100.67	109.14
4	V	162	SER	CA-C-N	5.69	127.90	120.28
4	V	162	SER	C-N-CA	5.69	127.90	120.28
4	E	635	GLU	CA-C-N	5.69	125.45	119.76
4	E	635	GLU	C-N-CA	5.69	125.45	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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
6	O	149	SER	CA-C-N	5.68	128.36	120.29
6	O	149	SER	C-N-CA	5.68	128.36	120.29
2	T	450	VAL	CA-C-N	5.68	126.00	119.92
2	T	450	VAL	C-N-CA	5.68	126.00	119.92
4	E	632	SER	CA-C-N	5.68	129.29	120.60
4	E	632	SER	C-N-CA	5.68	129.29	120.60
4	E	602	PRO	CA-C-N	5.68	132.35	122.81
4	E	602	PRO	C-N-CA	5.68	132.35	122.81
6	X	842	MET	CA-C-N	5.68	127.89	120.28
6	X	842	MET	C-N-CA	5.68	127.89	120.28
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
2	C	330	GLY	O-C-N	5.68	130.08	122.70
6	O	395	PRO	O-C-N	5.68	129.32	122.23
2	K	450	VAL	CA-C-N	5.67	125.99	119.92
2	K	450	VAL	C-N-CA	5.67	125.99	119.92
7	Y	29	ILE	O-C-N	5.67	127.47	121.91
2	C	667	ALA	CA-C-N	5.67	132.07	122.26
2	C	667	ALA	C-N-CA	5.67	132.07	122.26
4	M	133	ASP	N-CA-C	-5.67	100.69	109.14
7	Y	61	MET	N-CA-C	-5.67	97.99	107.80
6	O	842	MET	CA-C-N	5.67	127.88	120.28
6	O	842	MET	C-N-CA	5.67	127.88	120.28
6	G	361	LYS	CA-C-N	5.67	128.34	120.29
6	G	361	LYS	C-N-CA	5.67	128.34	120.29
6	G	787	PRO	N-CA-C	-5.67	102.29	111.19
3	L	577	ASP	CA-C-N	5.67	130.31	120.68
3	L	577	ASP	C-N-CA	5.67	130.31	120.68
4	E	141	GLU	N-CA-C	5.67	117.91	111.11
2	K	667	ALA	CA-C-N	5.66	132.06	122.26
2	K	667	ALA	C-N-CA	5.66	132.06	122.26
4	M	602	PRO	CA-C-N	5.66	132.32	122.81
4	M	602	PRO	C-N-CA	5.66	132.32	122.81
4	V	263	HIS	CA-C-N	5.66	127.87	120.28
4	V	263	HIS	C-N-CA	5.66	127.87	120.28
6	X	325	ILE	O-C-N	-5.66	116.38	121.87
4	M	170	SER	CA-C-N	5.66	128.14	120.44
4	M	170	SER	C-N-CA	5.66	128.14	120.44
4	M	400	PHE	CA-C-N	5.66	127.86	120.28
4	M	400	PHE	C-N-CA	5.66	127.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	N	140	GLN	CA-C-O	5.66	126.42	120.42
2	T	313	GLY	N-CA-C	-5.66	102.94	110.58
7	H	61	MET	N-CA-C	-5.66	98.01	107.80
2	K	359	SER	CA-C-O	-5.66	114.52	121.02
6	O	284	CYS	O-C-N	5.66	127.90	122.07
4	V	133	ASP	N-CA-C	-5.66	100.71	109.14
4	M	141	GLU	N-CA-C	5.66	117.90	111.11
4	E	400	PHE	CA-C-N	5.65	127.86	120.28
4	E	400	PHE	C-N-CA	5.65	127.86	120.28
2	K	330	GLY	O-C-N	5.65	130.05	122.70
4	E	326	ASN	CA-C-N	5.65	128.13	120.44
4	E	326	ASN	C-N-CA	5.65	128.13	120.44
6	O	288	LEU	O-C-N	5.65	127.89	122.07
4	V	602	PRO	CA-C-N	5.65	132.31	122.81
4	V	602	PRO	C-N-CA	5.65	132.31	122.81
4	V	795	LYS	CA-C-O	-5.65	112.95	119.56
7	H	29	ILE	O-C-N	5.65	127.45	121.91
3	U	681	CYS	N-CA-C	-5.65	106.34	113.23
4	V	400	PHE	CA-C-N	5.65	127.85	120.28
4	V	400	PHE	C-N-CA	5.65	127.85	120.28
6	G	395	PRO	O-C-N	5.65	129.29	122.23
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
5	W	140	GLN	CA-C-O	5.65	126.41	120.42
6	G	842	MET	CA-C-N	5.65	127.85	120.28
6	G	842	MET	C-N-CA	5.65	127.85	120.28
4	E	424	ILE	O-C-N	5.64	127.34	121.87
6	G	268	LEU	N-CA-C	5.64	118.20	111.71
6	O	274	ALA	CA-C-O	-5.64	114.16	119.80
2	T	545	THR	N-CA-C	-5.64	105.34	114.09
4	V	635	GLU	CA-C-N	5.64	125.40	119.76
4	V	635	GLU	C-N-CA	5.64	125.40	119.76
3	L	681	CYS	N-CA-C	-5.64	106.35	113.23
4	M	633	SER	O-C-N	5.64	127.75	121.43
4	M	635	GLU	CA-C-N	5.64	125.40	119.76
4	M	635	GLU	C-N-CA	5.64	125.40	119.76
4	V	170	SER	CA-C-N	5.64	128.11	120.44
4	V	170	SER	C-N-CA	5.64	128.11	120.44
6	X	120	THR	N-CA-C	-5.64	105.21	111.36
2	C	450	VAL	CA-C-N	5.64	125.95	119.92
2	C	450	VAL	C-N-CA	5.64	125.95	119.92
4	E	160	LEU	CA-C-N	5.64	128.43	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	160	LEU	C-N-CA	5.64	128.43	120.42
4	M	695	ALA	N-CA-C	-5.64	100.10	109.46
2	T	330	GLY	O-C-N	5.64	130.03	122.70
6	X	284	CYS	O-C-N	5.64	127.88	122.07
4	E	410	GLY	O-C-N	5.64	130.03	122.70
3	U	577	ASP	CA-C-N	5.64	130.26	120.68
3	U	577	ASP	C-N-CA	5.64	130.26	120.68
2	C	89	LEU	CA-C-N	5.64	129.91	122.42
2	C	89	LEU	C-N-CA	5.64	129.91	122.42
3	L	481	THR	CA-C-O	-5.64	115.24	121.33
2	C	418	ALA	N-CA-C	-5.63	99.11	108.75
2	K	658	ILE	O-C-N	5.63	127.16	122.09
6	O	268	LEU	N-CA-C	5.63	118.19	111.71
3	U	463	ILE	N-CA-C	-5.63	99.52	107.75
2	C	359	SER	CA-C-O	-5.63	114.54	121.02
3	D	681	CYS	N-CA-C	-5.63	106.36	113.23
6	O	534	LYS	CA-C-O	-5.63	115.20	121.51
7	P	29	ILE	O-C-N	5.63	127.43	121.91
4	E	170	SER	CA-C-N	5.63	128.10	120.44
4	E	170	SER	C-N-CA	5.63	128.10	120.44
6	O	120	THR	N-CA-C	-5.63	105.22	111.36
4	V	695	ALA	N-CA-C	-5.63	100.11	109.46
4	M	160	LEU	CA-C-N	5.63	128.41	120.42
4	M	160	LEU	C-N-CA	5.63	128.41	120.42
5	F	45	GLU	CA-C-N	5.63	127.82	120.28
5	F	45	GLU	C-N-CA	5.63	127.82	120.28
6	G	120	THR	N-CA-C	-5.63	105.22	111.36
6	G	284	CYS	O-C-N	5.63	127.87	122.07
2	K	161	VAL	N-CA-C	-5.63	100.29	108.17
6	X	288	LEU	O-C-N	5.63	127.87	122.07
4	E	695	ALA	N-CA-C	-5.63	100.12	109.46
2	T	89	LEU	CA-C-N	5.63	129.90	122.42
2	T	89	LEU	C-N-CA	5.63	129.90	122.42
2	T	359	SER	CA-C-O	-5.63	114.55	121.02
6	X	157	LEU	CA-C-O	-5.63	114.46	120.42
6	X	855	PHE	CA-C-N	5.63	127.75	120.44
6	X	855	PHE	C-N-CA	5.63	127.75	120.44
2	K	309	GLY	CA-C-O	-5.62	115.80	120.92
2	T	658	ILE	O-C-N	5.62	127.15	122.09
2	C	161	VAL	N-CA-C	-5.62	100.30	108.17
2	K	418	ALA	N-CA-C	-5.62	99.13	108.75
6	O	855	PHE	CA-C-N	5.62	127.75	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	855	PHE	C-N-CA	5.62	127.75	120.44
2	T	418	ALA	N-CA-C	-5.62	99.14	108.75
5	W	84	TYR	N-CA-C	-5.62	106.42	113.28
4	E	420	CYS	CA-C-O	-5.62	114.92	120.82
6	G	595	LEU	N-CA-C	-5.62	104.78	111.69
2	T	161	VAL	N-CA-C	-5.62	100.30	108.17
2	K	151	VAL	N-CA-C	-5.62	100.20	108.85
3	D	614	PRO	O-C-N	5.62	129.46	123.23
4	E	795	LYS	CA-C-O	-5.62	112.99	119.56
2	K	545	THR	N-CA-C	-5.62	105.39	114.09
3	D	658	TYR	CA-C-N	5.61	127.80	120.28
3	D	658	TYR	C-N-CA	5.61	127.80	120.28
6	G	213	ILE	CA-C-N	5.61	128.26	120.63
6	G	213	ILE	C-N-CA	5.61	128.26	120.63
4	M	163	SER	CA-C-N	5.61	128.26	120.29
4	M	163	SER	C-N-CA	5.61	128.26	120.29
4	M	420	CYS	CA-C-O	-5.61	114.93	120.82
2	K	89	LEU	CA-C-N	5.61	129.88	122.42
2	K	89	LEU	C-N-CA	5.61	129.88	122.42
3	L	658	TYR	CA-C-N	5.61	127.80	120.28
3	L	658	TYR	C-N-CA	5.61	127.80	120.28
3	U	658	TYR	CA-C-N	5.61	127.80	120.28
3	U	658	TYR	C-N-CA	5.61	127.80	120.28
4	V	410	GLY	O-C-N	5.61	130.00	122.70
2	C	545	THR	N-CA-C	-5.61	105.39	114.09
3	D	577	ASP	CA-C-N	5.61	130.22	120.68
3	D	577	ASP	C-N-CA	5.61	130.22	120.68
5	F	140	GLN	CA-C-O	5.61	126.37	120.42
6	G	288	LEU	O-C-N	5.61	127.85	122.07
6	G	534	LYS	CA-C-O	-5.61	115.23	121.51
6	G	743	ALA	O-C-N	5.61	130.14	123.24
3	L	614	PRO	O-C-N	5.61	129.46	123.23
4	M	263	HIS	CA-C-N	5.61	127.80	120.28
4	M	263	HIS	C-N-CA	5.61	127.80	120.28
4	M	410	GLY	O-C-N	5.61	129.99	122.70
4	V	163	SER	CA-C-N	5.61	128.26	120.29
4	V	163	SER	C-N-CA	5.61	128.26	120.29
6	G	274	ALA	CA-C-O	-5.61	114.19	119.80
6	X	534	LYS	CA-C-O	-5.61	115.23	121.51
3	D	463	ILE	N-CA-C	-5.61	99.56	107.75
4	M	326	ASN	CA-C-N	5.61	128.07	120.44
4	M	326	ASN	C-N-CA	5.61	128.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	213	ILE	CA-C-N	5.61	128.26	120.63
6	O	213	ILE	C-N-CA	5.61	128.26	120.63
2	C	151	VAL	N-CA-C	-5.61	100.22	108.85
2	C	309	GLY	CA-C-O	-5.61	115.82	120.92
2	C	665	ALA	CA-C-N	5.61	127.79	120.28
2	C	665	ALA	C-N-CA	5.61	127.79	120.28
6	G	855	PHE	CA-C-N	5.61	127.73	120.44
6	G	855	PHE	C-N-CA	5.61	127.73	120.44
3	L	447	LEU	N-CA-C	-5.61	99.27	108.41
6	O	157	LEU	CA-C-O	-5.61	114.48	120.42
6	G	157	LEU	CA-C-O	-5.60	114.48	120.42
2	T	151	VAL	N-CA-C	-5.60	100.22	108.85
4	V	141	GLU	N-CA-C	5.60	117.83	111.11
7	Y	44	LYS	N-CA-C	-5.60	104.08	112.54
2	C	659	GLU	N-CA-C	-5.60	105.25	111.36
4	E	633	SER	O-C-N	5.60	127.70	121.43
6	G	191	ARG	N-CA-C	5.60	119.62	112.34
5	N	84	TYR	N-CA-C	-5.60	106.44	113.28
6	O	488	ILE	N-CA-C	5.60	119.96	111.89
2	T	659	GLU	N-CA-C	-5.60	105.25	111.36
4	V	326	ASN	CA-C-N	5.60	128.06	120.44
4	V	326	ASN	C-N-CA	5.60	128.06	120.44
6	X	268	LEU	N-CA-C	5.60	118.15	111.71
2	C	517	LYS	N-CA-C	-5.60	98.87	110.80
2	K	665	ALA	CA-C-N	5.60	127.78	120.28
2	K	665	ALA	C-N-CA	5.60	127.78	120.28
4	V	659	LEU	N-CA-C	-5.60	99.89	109.24
6	X	595	LEU	N-CA-C	-5.60	104.80	111.69
3	D	447	LEU	N-CA-C	-5.60	99.29	108.41
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
2	K	741	ASP	O-C-N	5.60	130.21	123.16
5	N	45	GLU	CA-C-N	5.60	127.78	120.28
5	N	45	GLU	C-N-CA	5.60	127.78	120.28
6	O	191	ARG	N-CA-C	5.60	119.62	112.34
2	T	309	GLY	CA-C-O	-5.60	115.83	120.92
6	X	459	LEU	O-C-N	5.60	128.05	122.12
4	E	526	ASP	O-C-N	5.60	127.83	122.07
4	E	659	LEU	N-CA-C	-5.60	99.89	109.24
3	L	463	ILE	N-CA-C	-5.60	99.58	107.75
2	T	517	LYS	N-CA-C	-5.60	98.88	110.80
6	X	274	ALA	CA-C-O	-5.60	114.20	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	447	LEU	N-CA-C	-5.59	99.29	108.41
4	V	633	SER	O-C-N	5.59	127.70	121.43
6	X	488	ILE	N-CA-C	5.59	119.95	111.89
6	X	743	ALA	O-C-N	5.59	130.12	123.24
7	Y	63	LYS	N-CA-C	-5.59	106.34	112.72
4	E	263	HIS	CA-C-N	5.59	127.77	120.28
4	E	263	HIS	C-N-CA	5.59	127.77	120.28
5	F	84	TYR	N-CA-C	-5.59	106.46	113.28
2	K	517	LYS	N-CA-C	-5.59	98.90	110.80
6	O	743	ALA	O-C-N	5.59	130.12	123.24
2	T	750	LYS	O-C-N	5.59	127.83	122.07
6	X	213	ILE	CA-C-N	5.59	128.23	120.63
6	X	213	ILE	C-N-CA	5.59	128.23	120.63
2	C	741	ASP	O-C-N	5.59	130.20	123.16
2	K	659	GLU	N-CA-C	-5.59	105.27	111.36
4	M	659	LEU	N-CA-C	-5.59	99.91	109.24
2	T	741	ASP	O-C-N	5.59	130.20	123.16
4	M	795	LYS	CA-C-O	-5.58	113.03	119.56
2	T	665	ALA	CA-C-N	5.58	127.77	120.28
2	T	665	ALA	C-N-CA	5.58	127.77	120.28
7	P	46	HIS	CA-C-N	5.58	128.32	120.28
7	P	46	HIS	C-N-CA	5.58	128.32	120.28
5	W	45	GLU	CA-C-N	5.58	127.76	120.28
5	W	45	GLU	C-N-CA	5.58	127.76	120.28
6	G	488	ILE	N-CA-C	5.58	119.93	111.89
6	O	782	LYS	CA-C-N	5.58	129.40	121.42
6	O	782	LYS	C-N-CA	5.58	129.40	121.42
6	X	782	LYS	CA-C-N	5.58	129.40	121.42
6	X	782	LYS	C-N-CA	5.58	129.40	121.42
2	C	93	LEU	N-CA-C	-5.58	105.07	112.94
3	D	479	ILE	CA-C-N	5.58	130.42	122.72
3	D	479	ILE	C-N-CA	5.58	130.42	122.72
3	U	614	PRO	O-C-N	5.58	129.42	123.23
2	K	93	LEU	N-CA-C	-5.58	105.08	112.94
2	T	93	LEU	N-CA-C	-5.58	105.08	112.94
2	C	756	SER	O-C-N	5.58	127.81	122.07
7	H	46	HIS	CA-C-N	5.58	128.31	120.28
7	H	46	HIS	C-N-CA	5.58	128.31	120.28
7	H	63	LYS	N-CA-C	-5.58	106.36	112.72
7	H	127	LEU	CA-C-O	-5.58	113.56	119.97
6	O	595	LEU	N-CA-C	-5.58	104.83	111.69
6	G	782	LYS	CA-C-N	5.57	129.39	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	782	LYS	C-N-CA	5.57	129.39	121.42
7	P	63	LYS	N-CA-C	-5.57	106.37	112.72
5	N	134	ILE	CA-C-O	5.57	127.56	121.04
3	D	770	VAL	O-C-N	-5.57	116.47	121.87
6	X	191	ARG	N-CA-C	5.57	119.58	112.34
4	M	444	GLU	N-CA-C	5.57	118.28	111.82
7	Y	46	HIS	CA-C-N	5.57	128.30	120.28
7	Y	46	HIS	C-N-CA	5.57	128.30	120.28
4	E	444	GLU	N-CA-C	5.57	118.28	111.82
2	K	750	LYS	O-C-N	5.57	127.80	122.07
7	P	44	LYS	N-CA-C	-5.56	104.14	112.54
7	H	44	LYS	N-CA-C	-5.56	104.14	112.54
2	K	367	ASN	N-CA-C	-5.56	100.26	108.99
2	C	750	LYS	O-C-N	5.56	127.80	122.07
2	C	169	LYS	CA-C-O	-5.56	115.12	121.68
2	C	367	ASN	N-CA-C	-5.56	100.26	108.99
3	U	283	SER	CA-C-N	5.56	132.16	121.54
3	U	283	SER	C-N-CA	5.56	132.16	121.54
4	V	606	ALA	CA-C-N	5.56	129.76	120.70
4	V	606	ALA	C-N-CA	5.56	129.76	120.70
2	K	363	PHE	CA-C-O	-5.55	114.98	120.26
2	T	363	PHE	CA-C-O	-5.55	114.98	120.26
3	U	154	ASP	N-CA-C	-5.55	98.97	110.80
3	U	395	ALA	N-CA-C	-5.55	99.25	108.75
4	E	606	ALA	CA-C-N	5.55	129.75	120.70
4	E	606	ALA	C-N-CA	5.55	129.75	120.70
4	E	634	PRO	N-CA-C	-5.55	107.57	114.68
6	O	101	VAL	N-CA-C	-5.55	105.23	113.39
2	C	658	ILE	O-C-N	5.55	127.08	122.09
2	K	685	GLY	O-C-N	5.55	129.91	122.70
3	L	395	ALA	N-CA-C	-5.55	99.26	108.75
2	T	111	ALA	N-CA-C	-5.55	100.66	109.59
2	T	367	ASN	N-CA-C	-5.55	100.28	108.99
3	U	479	ILE	CA-C-N	5.55	130.38	122.72
3	U	479	ILE	C-N-CA	5.55	130.38	122.72
4	V	420	CYS	CA-C-O	-5.55	114.99	120.82
4	V	526	ASP	O-C-N	5.55	127.78	122.07
4	V	634	PRO	N-CA-C	-5.55	107.58	114.68
6	X	101	VAL	N-CA-C	-5.55	105.23	113.39
7	Y	127	LEU	CA-C-O	-5.55	113.59	119.97
2	C	363	PHE	CA-C-O	-5.55	114.99	120.26
2	K	756	SER	O-C-N	5.55	127.78	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	29	LYS	N-CA-C	-5.54	98.88	108.69
2	K	205	ASP	N-CA-C	-5.54	98.99	110.80
3	L	154	ASP	N-CA-C	-5.54	98.99	110.80
4	M	634	PRO	N-CA-C	-5.54	107.58	114.68
6	O	459	LEU	O-C-N	5.54	128.00	122.12
5	W	134	ILE	CA-C-O	5.54	127.53	121.04
6	X	938	VAL	CA-C-N	5.54	132.13	121.54
6	X	938	VAL	C-N-CA	5.54	132.13	121.54
2	C	111	ALA	N-CA-C	-5.54	100.67	109.59
3	D	283	SER	CA-C-N	5.54	132.13	121.54
3	D	283	SER	C-N-CA	5.54	132.13	121.54
6	G	101	VAL	N-CA-C	-5.54	105.24	113.39
3	D	154	ASP	N-CA-C	-5.54	99.00	110.80
6	G	269	VAL	CA-C-O	-5.54	114.90	121.05
2	K	169	LYS	CA-C-O	-5.54	115.14	121.68
4	M	606	ALA	CA-C-N	5.54	129.73	120.70
4	M	606	ALA	C-N-CA	5.54	129.73	120.70
4	V	444	GLU	N-CA-C	5.54	118.24	111.82
5	W	29	LYS	N-CA-C	-5.54	98.89	108.69
6	G	490	GLU	CA-C-N	-5.54	113.24	120.44
6	G	490	GLU	C-N-CA	-5.54	113.24	120.44
3	D	395	ALA	N-CA-C	-5.54	99.28	108.75
5	N	29	LYS	N-CA-C	-5.54	98.89	108.69
2	K	111	ALA	N-CA-C	-5.53	100.68	109.59
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	130.36	122.72
3	L	479	ILE	C-N-CA	5.53	130.36	122.72
2	T	685	GLY	O-C-N	5.53	129.90	122.70
3	D	291	ASP	O-C-N	5.53	128.46	122.15
3	L	283	SER	CA-C-N	5.53	132.11	121.54
3	L	283	SER	C-N-CA	5.53	132.11	121.54
2	T	169	LYS	CA-C-O	-5.53	115.15	121.68
4	V	64	THR	CA-C-N	5.53	128.14	120.29
4	V	64	THR	C-N-CA	5.53	128.14	120.29
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	864	TRP	N-CA-C	-5.53	104.79	112.03
3	D	436	GLY	CA-C-N	5.53	127.95	120.65
3	D	436	GLY	C-N-CA	5.53	127.95	120.65
6	G	459	LEU	O-C-N	5.53	127.98	122.12
3	L	728	ALA	N-CA-C	5.53	117.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	28	ASN	CA-C-N	5.53	128.71	120.31
6	X	28	ASN	C-N-CA	5.53	128.71	120.31
6	G	345	LEU	CA-C-N	5.53	128.13	120.29
6	G	345	LEU	C-N-CA	5.53	128.13	120.29
6	X	490	GLU	CA-C-N	-5.53	113.26	120.44
6	X	490	GLU	C-N-CA	-5.53	113.26	120.44
3	L	802	LYS	CA-C-O	-5.52	115.40	121.31
4	E	64	THR	CA-C-N	5.52	128.13	120.29
4	E	64	THR	C-N-CA	5.52	128.13	120.29
2	T	205	ASP	N-CA-C	-5.52	99.04	110.80
2	T	756	SER	O-C-N	5.52	127.76	122.07
3	U	728	ALA	N-CA-C	5.52	117.30	111.28
6	O	938	VAL	CA-C-N	5.52	132.08	121.54
6	O	938	VAL	C-N-CA	5.52	132.08	121.54
3	U	436	GLY	CA-C-N	5.52	127.94	120.65
3	U	436	GLY	C-N-CA	5.52	127.94	120.65
4	M	65	GLU	O-C-N	5.52	128.44	122.15
6	O	489	VAL	CA-C-N	5.52	127.61	120.44
6	O	489	VAL	C-N-CA	5.52	127.61	120.44
6	O	490	GLU	CA-C-N	-5.52	113.27	120.44
6	O	490	GLU	C-N-CA	-5.52	113.27	120.44
6	O	584	GLU	N-CA-C	-5.52	99.90	108.90
3	U	770	VAL	O-C-N	-5.52	116.52	121.87
2	C	685	GLY	O-C-N	5.52	129.87	122.70
3	D	271	MET	CA-C-N	5.52	132.08	121.54
3	D	271	MET	C-N-CA	5.52	132.08	121.54
3	D	753	GLU	CA-C-O	-5.52	114.57	120.42
4	E	65	GLU	O-C-N	5.52	128.44	122.15
4	E	457	HIS	CA-C-N	5.52	127.94	120.44
4	E	457	HIS	C-N-CA	5.52	127.94	120.44
6	G	28	ASN	CA-C-N	5.52	128.70	120.31
6	G	28	ASN	C-N-CA	5.52	128.70	120.31
6	G	181	LEU	N-CA-C	-5.52	99.05	110.80
6	G	584	GLU	N-CA-C	-5.52	99.91	108.90
3	U	120	ASP	CA-C-N	5.52	131.91	123.47
3	U	120	ASP	C-N-CA	5.52	131.91	123.47
3	L	770	VAL	O-C-N	-5.52	116.52	121.87
6	O	28	ASN	CA-C-N	5.52	128.69	120.31
6	O	28	ASN	C-N-CA	5.52	128.69	120.31
3	U	590	SER	N-CA-C	5.52	117.29	111.28
3	D	590	SER	N-CA-C	5.51	117.29	111.28
7	H	75	ASN	CA-C-N	5.51	127.51	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	75	ASN	C-N-CA	5.51	127.51	120.56
3	L	291	ASP	O-C-N	5.51	128.44	122.15
4	M	526	ASP	O-C-N	5.51	127.75	122.07
3	U	802	LYS	CA-C-O	-5.51	115.41	121.31
3	U	271	MET	CA-C-N	5.51	132.07	121.54
3	U	271	MET	C-N-CA	5.51	132.07	121.54
5	F	134	ILE	CA-C-O	5.51	127.49	121.04
6	O	269	VAL	CA-C-O	-5.51	114.93	121.05
6	O	345	LEU	CA-C-N	5.51	128.12	120.29
6	O	345	LEU	C-N-CA	5.51	128.12	120.29
2	T	178	GLU	CA-C-N	5.51	128.67	120.90
2	T	178	GLU	C-N-CA	5.51	128.67	120.90
2	C	205	ASP	N-CA-C	-5.51	99.06	110.80
3	L	271	MET	CA-C-N	5.51	132.06	121.54
3	L	271	MET	C-N-CA	5.51	132.06	121.54
6	X	181	LEU	N-CA-C	-5.51	99.07	110.80
2	C	178	GLU	CA-C-N	5.51	128.66	120.90
2	C	178	GLU	C-N-CA	5.51	128.66	120.90
3	D	120	ASP	CA-C-N	5.50	131.89	123.47
3	D	120	ASP	C-N-CA	5.50	131.89	123.47
4	V	65	GLU	O-C-N	5.50	128.43	122.15
2	C	651	LEU	CA-C-N	5.50	127.65	120.28
2	C	651	LEU	C-N-CA	5.50	127.65	120.28
6	G	489	VAL	CA-C-N	5.50	127.60	120.44
6	G	489	VAL	C-N-CA	5.50	127.60	120.44
4	M	64	THR	CA-C-N	5.50	128.10	120.29
4	M	64	THR	C-N-CA	5.50	128.10	120.29
4	M	457	HIS	CA-C-N	5.50	127.92	120.44
4	M	457	HIS	C-N-CA	5.50	127.92	120.44
6	X	584	GLU	N-CA-C	-5.50	99.93	108.90
7	Y	75	ASN	CA-C-N	5.50	127.49	120.56
7	Y	75	ASN	C-N-CA	5.50	127.49	120.56
3	D	620	ARG	N-CA-C	5.50	117.08	111.14
2	K	178	GLU	CA-C-N	5.50	128.66	120.90
2	K	178	GLU	C-N-CA	5.50	128.66	120.90
2	K	373	ALA	CA-C-N	5.50	132.05	121.54
2	K	373	ALA	C-N-CA	5.50	132.05	121.54
3	L	620	ARG	N-CA-C	5.50	117.08	111.14
3	U	620	ARG	N-CA-C	5.50	117.08	111.14
6	O	181	LEU	N-CA-C	-5.50	99.08	110.80
2	C	669	ASP	O-C-N	5.50	129.18	122.58
3	D	574	TYR	N-CA-C	-5.50	100.22	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	542	LEU	CA-C-O	-5.50	115.04	120.70
2	K	651	LEU	CA-C-N	5.50	127.65	120.28
2	K	651	LEU	C-N-CA	5.50	127.65	120.28
3	L	574	TYR	N-CA-C	-5.50	100.22	109.07
6	O	363	GLU	CA-C-N	5.50	128.81	120.95
6	O	363	GLU	C-N-CA	5.50	128.81	120.95
4	E	159	ALA	CA-C-N	5.50	127.58	120.44
4	E	159	ALA	C-N-CA	5.50	127.58	120.44
3	L	590	SER	N-CA-C	5.50	117.27	111.28
6	X	345	LEU	CA-C-N	5.50	128.09	120.29
6	X	345	LEU	C-N-CA	5.50	128.09	120.29
4	V	457	HIS	CA-C-N	5.50	127.91	120.44
4	V	457	HIS	C-N-CA	5.50	127.91	120.44
7	P	127	LEU	CA-C-O	-5.49	113.65	119.97
3	U	291	ASP	O-C-N	5.49	128.41	122.15
3	D	728	ALA	N-CA-C	5.49	117.27	111.28
5	F	68	VAL	CA-C-O	5.49	126.16	120.39
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
2	T	234	MET	N-CA-C	-5.49	106.25	113.17
3	U	145	VAL	O-C-N	5.49	129.04	122.62
3	U	574	TYR	N-CA-C	-5.49	100.23	109.07
6	X	489	VAL	CA-C-N	5.49	127.58	120.44
6	X	489	VAL	C-N-CA	5.49	127.58	120.44
3	D	421	LYS	CA-C-N	5.49	131.00	122.49
3	D	421	LYS	C-N-CA	5.49	131.00	122.49
6	O	785	GLU	O-C-N	-5.49	115.29	122.59
4	V	103	ILE	CA-C-N	5.49	129.14	120.47
4	V	103	ILE	C-N-CA	5.49	129.14	120.47
3	D	416	LYS	N-CA-C	-5.49	99.49	108.76
5	N	31	TYR	N-CA-C	-5.49	106.17	112.92
5	W	68	VAL	CA-C-O	5.49	126.15	120.39
6	X	785	GLU	O-C-N	-5.49	115.29	122.59
6	O	914	SER	O-C-N	-5.49	116.28	122.97
4	E	196	ALA	CA-C-N	5.48	128.08	120.29
4	E	196	ALA	C-N-CA	5.48	128.08	120.29
3	U	534	PHE	CA-C-O	-5.48	114.49	120.36
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	K	966	GLY	CA-C-N	-5.48	114.07	122.62
2	K	966	GLY	C-N-CA	-5.48	114.07	122.62
4	M	492	VAL	N-CA-C	5.48	116.26	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	106	ALA	N-CA-C	-5.48	100.09	109.24
4	M	49	THR	CA-C-N	5.48	127.62	120.28
4	M	49	THR	C-N-CA	5.48	127.62	120.28
4	M	103	ILE	CA-C-N	5.48	129.13	120.47
4	M	103	ILE	C-N-CA	5.48	129.13	120.47
5	W	31	TYR	N-CA-C	-5.48	106.18	112.92
3	D	802	LYS	CA-C-O	-5.48	115.45	121.31
2	K	947	VAL	N-CA-C	-5.48	101.18	108.96
6	G	864	TRP	N-CA-C	-5.48	104.85	112.03
3	L	436	GLY	CA-C-N	5.48	127.88	120.65
3	L	436	GLY	C-N-CA	5.48	127.88	120.65
4	V	49	THR	CA-C-N	5.48	127.62	120.28
4	V	49	THR	C-N-CA	5.48	127.62	120.28
6	X	269	VAL	CA-C-O	-5.48	114.97	121.05
2	C	373	ALA	CA-C-N	5.48	132.00	121.54
2	C	373	ALA	C-N-CA	5.48	132.00	121.54
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
6	O	150	TYR	CA-C-O	-5.47	114.62	120.42
3	U	416	LYS	N-CA-C	-5.47	99.51	108.76
4	E	337	ASN	CA-C-N	-5.47	112.52	120.29
4	E	337	ASN	C-N-CA	-5.47	112.52	120.29
4	V	542	LEU	CA-C-O	-5.47	115.06	120.70
5	F	31	TYR	N-CA-C	-5.47	106.19	112.92
6	G	914	SER	O-C-N	-5.47	116.30	122.97
2	T	373	ALA	CA-C-N	5.47	131.99	121.54
2	T	373	ALA	C-N-CA	5.47	131.99	121.54
2	T	966	GLY	CA-C-N	-5.47	114.09	122.62
2	T	966	GLY	C-N-CA	-5.47	114.09	122.62
2	C	234	MET	N-CA-C	-5.47	106.28	113.17
4	V	196	ALA	CA-C-N	5.47	128.05	120.29
4	V	196	ALA	C-N-CA	5.47	128.05	120.29
6	X	864	TRP	N-CA-C	-5.47	104.87	112.03
4	E	49	THR	CA-C-N	5.46	127.60	120.28
4	E	49	THR	C-N-CA	5.46	127.60	120.28
4	E	492	VAL	N-CA-C	5.46	116.24	110.72
2	K	669	ASP	O-C-N	5.46	129.14	122.58
2	K	523	ASN	CA-C-N	5.46	129.42	122.37
2	K	523	ASN	C-N-CA	5.46	129.42	122.37
6	X	914	SER	N-CA-C	5.46	117.94	110.24
3	D	534	PHE	CA-C-O	-5.46	114.52	120.36
6	G	785	GLU	O-C-N	-5.46	115.33	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	836	GLY	N-CA-C	-5.46	108.11	115.21
2	T	947	VAL	N-CA-C	-5.46	101.20	108.96
4	V	337	ASN	CA-C-N	-5.46	112.53	120.29
4	V	337	ASN	C-N-CA	-5.46	112.53	120.29
4	V	538	LYS	CA-C-N	5.46	127.60	120.28
4	V	538	LYS	C-N-CA	5.46	127.60	120.28
3	U	106	ALA	N-CA-C	-5.46	100.12	109.24
6	X	363	GLU	CA-C-N	5.46	128.76	120.95
6	X	363	GLU	C-N-CA	5.46	128.76	120.95
4	M	81	ASP	CA-C-N	5.46	124.80	118.85
4	M	81	ASP	C-N-CA	5.46	124.80	118.85
4	M	159	ALA	CA-C-N	5.46	127.54	120.44
4	M	159	ALA	C-N-CA	5.46	127.54	120.44
4	V	292	LEU	N-CA-C	5.46	117.94	111.33
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
3	L	416	LYS	N-CA-C	-5.46	99.54	108.76
6	X	352	ASN	N-CA-C	-5.46	107.87	114.75
6	X	415	ALA	CA-C-N	5.46	127.59	120.28
6	X	415	ALA	C-N-CA	5.46	127.59	120.28
2	C	156	ASP	N-CA-C	-5.46	106.50	112.72
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
3	U	421	LYS	CA-C-N	5.46	130.95	122.49
3	U	421	LYS	C-N-CA	5.46	130.95	122.49
4	M	668	THR	CA-C-O	-5.45	113.52	119.95
6	G	363	GLU	CA-C-N	5.45	128.75	120.95
6	G	363	GLU	C-N-CA	5.45	128.75	120.95
6	O	452	VAL	CA-C-N	5.45	127.59	120.28
6	O	452	VAL	C-N-CA	5.45	127.59	120.28
2	T	669	ASP	O-C-N	5.45	129.12	122.58
4	E	452	ALA	CA-C-N	5.45	127.58	120.28
4	E	452	ALA	C-N-CA	5.45	127.58	120.28
4	E	836	GLY	N-CA-C	-5.45	108.12	115.21
2	K	751	ASN	CA-C-N	5.45	128.59	120.31
2	K	751	ASN	C-N-CA	5.45	128.59	120.31
4	M	538	LYS	CA-C-N	5.45	127.58	120.28
4	M	538	LYS	C-N-CA	5.45	127.58	120.28
6	O	415	ALA	CA-C-N	5.45	127.58	120.28
6	O	415	ALA	C-N-CA	5.45	127.58	120.28
6	X	914	SER	O-C-N	-5.45	116.32	122.97
3	D	106	ALA	N-CA-C	-5.45	100.14	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	156	ASP	N-CA-C	-5.45	106.51	112.72
4	M	542	LEU	CA-C-O	-5.45	115.09	120.70
2	T	523	ASN	CA-C-N	5.45	129.40	122.37
2	T	523	ASN	C-N-CA	5.45	129.40	122.37
6	O	914	SER	N-CA-C	5.45	117.92	110.24
4	V	81	ASP	CA-C-N	5.45	124.79	118.85
4	V	81	ASP	C-N-CA	5.45	124.79	118.85
4	M	292	LEU	N-CA-C	5.45	117.92	111.33
2	C	637	VAL	CA-C-N	5.44	127.58	120.28
2	C	637	VAL	C-N-CA	5.44	127.58	120.28
3	D	633	GLN	N-CA-C	-5.44	105.43	111.36
4	V	668	THR	CA-C-O	-5.44	113.53	119.95
3	D	440	GLY	N-CA-C	-5.44	101.02	110.71
4	M	337	ASN	CA-C-N	-5.44	112.56	120.29
4	M	337	ASN	C-N-CA	-5.44	112.56	120.29
4	V	617	LEU	CA-C-N	5.44	128.12	120.28
4	V	617	LEU	C-N-CA	5.44	128.12	120.28
4	E	668	THR	CA-C-O	-5.44	113.53	119.95
2	K	5	PHE	O-C-N	-5.44	117.04	123.41
3	L	243	ILE	CA-C-O	5.44	127.58	120.78
5	N	68	VAL	CA-C-O	5.44	126.10	120.39
7	P	68	LEU	N-CA-C	-5.44	100.15	109.24
4	V	159	ALA	CA-C-N	5.44	127.51	120.44
4	V	159	ALA	C-N-CA	5.44	127.51	120.44
3	L	534	PHE	CA-C-O	-5.44	114.54	120.36
2	T	651	LEU	CA-C-N	5.44	127.57	120.28
2	T	651	LEU	C-N-CA	5.44	127.57	120.28
6	G	352	ASN	N-CA-C	-5.44	107.90	114.75
6	G	914	SER	N-CA-C	5.44	117.91	110.24
7	H	68	LEU	N-CA-C	-5.44	100.16	109.24
3	U	753	GLU	CA-C-O	-5.44	114.66	120.42
4	E	513	LEU	N-CA-C	5.44	118.13	111.82
3	L	440	GLY	N-CA-C	-5.44	101.03	110.71
4	M	513	LEU	N-CA-C	5.44	118.13	111.82
2	C	751	ASN	CA-C-N	5.43	128.57	120.31
2	C	751	ASN	C-N-CA	5.43	128.57	120.31
3	D	540	VAL	O-C-N	5.43	127.11	122.16
6	G	452	VAL	CA-C-N	5.43	127.56	120.28
6	G	452	VAL	C-N-CA	5.43	127.56	120.28
7	P	75	ASN	CA-C-N	5.43	127.41	120.56
7	P	75	ASN	C-N-CA	5.43	127.41	120.56
2	T	300	HIS	O-C-N	-5.43	115.66	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	234	MET	N-CA-C	-5.43	106.33	113.17
2	T	215	PRO	N-CA-C	5.43	123.66	112.47
2	T	751	ASN	CA-C-N	5.43	128.57	120.31
2	T	751	ASN	C-N-CA	5.43	128.57	120.31
6	X	452	VAL	CA-C-N	5.43	127.56	120.28
6	X	452	VAL	C-N-CA	5.43	127.56	120.28
2	C	215	PRO	N-CA-C	5.43	123.66	112.47
3	L	588	LEU	CA-C-N	5.43	127.90	120.46
3	L	588	LEU	C-N-CA	5.43	127.90	120.46
4	E	538	LYS	CA-C-N	5.43	127.56	120.28
4	E	538	LYS	C-N-CA	5.43	127.56	120.28
4	M	23	GLU	CA-C-N	5.43	128.00	120.29
4	M	23	GLU	C-N-CA	5.43	128.00	120.29
4	M	617	LEU	CA-C-N	5.43	128.10	120.28
4	M	617	LEU	C-N-CA	5.43	128.10	120.28
3	U	540	VAL	O-C-N	5.43	127.10	122.16
3	U	729	PHE	O-C-N	5.43	128.34	122.15
6	X	255	SER	CA-C-N	5.43	131.91	121.54
6	X	255	SER	C-N-CA	5.43	131.91	121.54
3	U	390	SER	N-CA-C	-5.43	100.85	109.59
3	D	145	VAL	O-C-N	5.43	128.97	122.62
6	G	255	SER	CA-C-N	5.43	131.90	121.54
6	G	255	SER	C-N-CA	5.43	131.90	121.54
2	K	27	SER	N-CA-C	-5.43	100.06	108.90
2	K	215	PRO	N-CA-C	5.43	123.65	112.47
2	K	240	TRP	N-CA-C	-5.43	104.93	113.02
3	L	145	VAL	O-C-N	5.43	128.97	122.62
6	O	509	GLY	N-CA-C	-5.43	101.27	112.34
4	E	23	GLU	CA-C-N	5.42	127.99	120.29
4	E	23	GLU	C-N-CA	5.42	127.99	120.29
6	O	803	ASN	CA-C-O	-5.42	115.23	121.47
3	U	440	GLY	N-CA-C	-5.42	101.06	110.71
2	C	300	HIS	O-C-N	-5.42	115.67	121.42
6	G	888	THR	N-CA-C	-5.42	104.88	112.25
6	O	823	SER	N-CA-C	-5.42	101.17	109.41
2	T	405	PRO	N-CA-C	-5.42	105.53	114.75
3	U	633	GLN	N-CA-C	-5.42	105.45	111.36
6	G	509	GLY	N-CA-C	-5.42	101.28	112.34
6	G	520	THR	N-CA-C	5.42	117.19	111.28
3	L	633	GLN	N-CA-C	-5.42	105.45	111.36
6	X	509	GLY	N-CA-C	-5.42	101.28	112.34
3	L	390	SER	N-CA-C	-5.42	100.87	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	255	SER	CA-C-N	5.42	131.89	121.54
6	O	255	SER	C-N-CA	5.42	131.89	121.54
2	T	156	ASP	N-CA-C	-5.42	106.54	112.72
4	V	836	GLY	N-CA-C	-5.42	108.17	115.21
4	E	617	LEU	CA-C-N	5.42	128.08	120.28
4	E	617	LEU	C-N-CA	5.42	128.08	120.28
6	G	475	VAL	N-CA-C	5.42	115.62	110.53
2	K	300	HIS	O-C-N	-5.42	115.68	121.42
2	K	405	PRO	N-CA-C	-5.42	105.54	114.75
2	T	807	ASN	N-CA-C	-5.42	104.94	112.30
3	L	753	GLU	CA-C-O	-5.41	114.68	120.42
6	O	520	THR	N-CA-C	5.41	117.18	111.28
4	V	23	GLU	CA-C-N	5.41	127.98	120.29
4	V	23	GLU	C-N-CA	5.41	127.98	120.29
6	X	520	THR	N-CA-C	5.41	117.18	111.28
7	Y	68	LEU	N-CA-C	-5.41	100.20	109.24
2	T	392	ASP	CA-C-N	5.41	130.78	122.93
2	T	392	ASP	C-N-CA	5.41	130.78	122.93
3	D	243	ILE	CA-C-O	5.41	127.54	120.78
6	X	888	THR	N-CA-C	-5.41	104.89	112.25
3	D	729	PHE	O-C-N	5.41	128.31	122.15
6	G	880	TYR	CA-C-N	5.41	127.47	120.44
6	G	880	TYR	C-N-CA	5.41	127.47	120.44
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
2	T	27	SER	N-CA-C	-5.41	100.08	108.90
3	U	190	CYS	O-C-N	5.41	129.54	123.27
2	C	27	SER	N-CA-C	-5.41	100.09	108.90
4	M	452	ALA	CA-C-N	5.41	127.53	120.28
4	M	452	ALA	C-N-CA	5.41	127.53	120.28
3	U	381	MET	CA-C-O	5.41	125.23	119.34
2	C	405	PRO	N-CA-C	-5.41	105.56	114.75
2	C	700	PHE	CA-C-O	-5.41	114.69	120.42
3	D	381	MET	CA-C-O	5.41	125.23	119.34
2	C	807	ASN	N-CA-C	-5.40	104.95	112.30
6	O	352	ASN	N-CA-C	-5.40	107.94	114.75
2	C	240	TRP	N-CA-C	-5.40	104.97	113.02
3	D	390	SER	N-CA-C	-5.40	100.89	109.59
4	E	292	LEU	N-CA-C	5.40	117.87	111.33
6	G	823	SER	N-CA-C	-5.40	101.20	109.41
3	L	596	THR	N-CA-C	-5.40	105.29	111.07
3	U	752	PRO	CA-C-N	5.40	127.96	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	752	PRO	C-N-CA	5.40	127.96	120.29
4	V	513	LEU	N-CA-C	5.40	118.09	111.82
2	K	392	ASP	CA-C-N	5.40	130.76	122.93
2	K	392	ASP	C-N-CA	5.40	130.76	122.93
3	L	540	VAL	O-C-N	5.40	127.07	122.16
2	T	240	TRP	N-CA-C	-5.40	104.97	113.02
4	V	498	PHE	CA-C-N	5.40	125.93	119.94
4	V	498	PHE	C-N-CA	5.40	125.93	119.94
6	G	803	ASN	CA-C-O	-5.40	115.26	121.47
2	K	807	ASN	N-CA-C	-5.40	104.96	112.30
4	V	452	ALA	CA-C-N	5.40	127.52	120.28
4	V	452	ALA	C-N-CA	5.40	127.52	120.28
3	D	182	GLU	N-CA-C	-5.40	95.83	107.49
3	L	190	CYS	O-C-N	5.40	129.53	123.27
4	V	492	VAL	N-CA-C	5.40	116.17	110.72
6	G	332	PRO	O-C-N	5.40	129.92	122.64
2	T	422	ALA	CA-C-N	5.40	131.85	121.54
2	T	422	ALA	C-N-CA	5.40	131.85	121.54
3	D	654	LEU	CA-C-N	5.39	127.51	120.28
3	D	654	LEU	C-N-CA	5.39	127.51	120.28
3	D	752	PRO	CA-C-N	5.39	127.95	120.29
3	D	752	PRO	C-N-CA	5.39	127.95	120.29
4	E	188	ASP	N-CA-C	-5.39	106.07	113.30
4	E	557	GLY	O-C-N	5.39	128.30	122.96
3	L	182	GLU	N-CA-C	-5.39	95.84	107.49
6	X	475	VAL	N-CA-C	5.39	115.60	110.53
2	C	5	PHE	O-C-N	-5.39	117.10	123.41
4	M	796	THR	O-C-N	-5.39	117.65	123.42
4	V	285	LEU	CA-C-O	5.39	125.95	119.59
6	X	332	PRO	O-C-N	5.39	129.92	122.64
6	X	803	ASN	CA-C-O	-5.39	115.27	121.47
4	E	402	PHE	CA-C-O	-5.39	114.83	120.55
2	K	422	ALA	CA-C-N	5.39	131.84	121.54
2	K	422	ALA	C-N-CA	5.39	131.84	121.54
6	O	332	PRO	O-C-N	5.39	129.92	122.64
2	C	523	ASN	CA-C-N	5.39	129.32	122.37
2	C	523	ASN	C-N-CA	5.39	129.32	122.37
3	D	190	CYS	O-C-N	5.39	129.52	123.27
3	D	349	GLY	CA-C-N	5.39	131.84	121.54
3	D	349	GLY	C-N-CA	5.39	131.84	121.54
4	E	680	GLN	N-CA-C	5.39	118.46	110.48
4	M	607	ALA	N-CA-C	-5.39	106.19	114.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	112	SER	CA-C-O	5.39	127.55	121.51
3	U	182	GLU	N-CA-C	-5.39	95.85	107.49
3	U	243	ILE	CA-C-O	5.39	127.52	120.78
6	X	880	TYR	CA-C-N	5.39	127.45	120.44
6	X	880	TYR	C-N-CA	5.39	127.45	120.44
3	U	349	GLY	CA-C-N	5.39	131.83	121.54
3	U	349	GLY	C-N-CA	5.39	131.83	121.54
3	L	77	ASP	N-CA-C	-5.39	107.02	113.21
3	L	381	MET	CA-C-O	5.39	125.21	119.34
6	O	749	VAL	CA-C-O	5.39	125.58	120.25
6	O	880	TYR	CA-C-N	5.39	127.44	120.44
6	O	880	TYR	C-N-CA	5.39	127.44	120.44
6	O	888	THR	N-CA-C	-5.39	104.92	112.25
6	X	823	SER	N-CA-C	-5.39	101.22	109.41
2	K	700	PHE	CA-C-O	-5.38	114.71	120.42
6	G	953	LEU	O-C-N	5.38	127.83	122.12
3	U	77	ASP	N-CA-C	-5.38	107.02	113.21
3	U	654	LEU	CA-C-N	5.38	127.49	120.28
3	U	654	LEU	C-N-CA	5.38	127.49	120.28
3	D	596	THR	N-CA-C	-5.38	105.31	111.07
6	O	475	VAL	N-CA-C	5.38	115.59	110.53
4	V	154	SER	O-C-N	5.38	127.61	122.07
5	N	59	ILE	O-C-N	-5.38	117.38	123.03
2	C	392	ASP	CA-C-N	5.38	130.72	122.93
2	C	392	ASP	C-N-CA	5.38	130.72	122.93
2	C	422	ALA	CA-C-N	5.38	131.81	121.54
2	C	422	ALA	C-N-CA	5.38	131.81	121.54
3	D	582	ILE	CA-C-N	5.38	131.24	122.69
3	D	582	ILE	C-N-CA	5.38	131.24	122.69
3	L	752	PRO	CA-C-N	5.38	127.92	120.29
3	L	752	PRO	C-N-CA	5.38	127.92	120.29
4	M	503	GLU	CA-C-O	5.38	126.25	120.55
4	M	680	GLN	N-CA-C	5.38	118.44	110.48
2	T	637	VAL	CA-C-N	5.38	127.49	120.28
2	T	637	VAL	C-N-CA	5.38	127.49	120.28
3	U	596	THR	N-CA-C	-5.38	105.32	111.07
2	C	502	HIS	CA-C-N	-5.37	114.63	122.58
2	C	502	HIS	C-N-CA	-5.37	114.63	122.58
4	E	607	ALA	N-CA-C	-5.37	106.21	114.16
4	M	285	LEU	CA-C-O	5.37	125.93	119.59
6	O	926	ILE	N-CA-C	-5.37	99.91	107.75
4	M	188	ASP	N-CA-C	-5.37	106.10	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	648	ALA	O-C-N	5.37	127.81	122.12
4	V	557	GLY	O-C-N	5.37	128.28	122.96
6	G	212	CYS	CA-C-N	5.37	128.10	120.53
6	G	212	CYS	C-N-CA	5.37	128.10	120.53
6	X	749	VAL	CA-C-O	5.37	125.57	120.25
3	D	588	LEU	CA-C-N	5.37	127.82	120.46
3	D	588	LEU	C-N-CA	5.37	127.82	120.46
3	U	582	ILE	CA-C-N	5.37	131.22	122.69
3	U	582	ILE	C-N-CA	5.37	131.22	122.69
3	L	582	ILE	CA-C-N	5.37	131.22	122.69
3	L	582	ILE	C-N-CA	5.37	131.22	122.69
4	M	154	SER	O-C-N	5.37	127.60	122.07
3	D	346	LYS	CA-C-N	5.37	128.33	120.71
3	D	346	LYS	C-N-CA	5.37	128.33	120.71
3	L	729	PHE	O-C-N	5.37	128.27	122.15
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
4	E	796	THR	O-C-N	-5.36	117.68	123.42
6	G	749	VAL	CA-C-O	5.36	125.56	120.25
4	V	785	LYS	N-CA-C	-5.36	100.92	109.23
4	M	402	PHE	CA-C-O	-5.36	114.87	120.55
3	U	439	LEU	CA-C-N	-5.36	117.60	122.80
3	U	439	LEU	C-N-CA	-5.36	117.60	122.80
3	L	349	GLY	CA-C-N	5.36	131.78	121.54
3	L	349	GLY	C-N-CA	5.36	131.78	121.54
2	T	5	PHE	O-C-N	-5.36	117.14	123.41
3	U	719	ALA	CA-C-N	5.36	128.86	120.82
3	U	719	ALA	C-N-CA	5.36	128.86	120.82
4	V	607	ALA	N-CA-C	-5.36	106.22	114.16
4	E	498	PHE	CA-C-N	5.36	125.89	119.94
4	E	498	PHE	C-N-CA	5.36	125.89	119.94
4	M	557	GLY	O-C-N	5.36	128.26	122.96
3	D	564	LEU	CA-C-O	5.36	126.22	120.70
3	D	719	ALA	CA-C-N	5.36	128.86	120.82
3	D	719	ALA	C-N-CA	5.36	128.86	120.82
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	E	616	GLN	CA-C-N	5.36	127.46	120.28
4	E	616	GLN	C-N-CA	5.36	127.46	120.28
4	E	770	VAL	N-CA-C	-5.36	104.26	111.44
3	L	719	ALA	CA-C-N	5.36	128.85	120.82
3	L	719	ALA	C-N-CA	5.36	128.85	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	P	18	SER	CA-C-N	-5.36	113.33	122.33
7	P	18	SER	C-N-CA	-5.36	113.33	122.33
2	T	658	ILE	CA-C-N	5.36	127.89	120.29
2	T	658	ILE	C-N-CA	5.36	127.89	120.29
5	W	87	GLU	CA-C-N	5.36	127.89	120.29
5	W	87	GLU	C-N-CA	5.36	127.89	120.29
3	U	493	GLU	N-CA-C	5.35	117.20	111.36
4	E	785	LYS	N-CA-C	-5.35	100.93	109.23
5	F	114	LEU	CA-C-N	5.35	127.89	120.29
5	F	114	LEU	C-N-CA	5.35	127.89	120.29
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
4	E	154	SER	O-C-N	5.35	127.58	122.07
4	V	680	GLN	N-CA-C	5.35	118.40	110.48
3	D	648	ALA	O-C-N	5.35	127.79	122.12
3	U	588	LEU	CA-C-N	5.35	127.79	120.46
3	U	588	LEU	C-N-CA	5.35	127.79	120.46
4	E	602	PRO	N-CA-C	-5.35	102.29	110.95
4	M	498	PHE	CA-C-N	5.35	125.88	119.94
4	M	498	PHE	C-N-CA	5.35	125.88	119.94
4	V	188	ASP	N-CA-C	-5.35	106.13	113.30
4	V	402	PHE	CA-C-O	-5.35	114.88	120.55
3	L	92	VAL	CA-C-O	-5.35	115.12	121.05
4	E	503	GLU	CA-C-O	5.34	126.22	120.55
4	M	616	GLN	CA-C-N	5.34	127.44	120.28
4	M	616	GLN	C-N-CA	5.34	127.44	120.28
6	O	212	CYS	CA-C-N	5.34	128.06	120.53
6	O	212	CYS	C-N-CA	5.34	128.06	120.53
2	T	31	GLY	O-C-N	5.34	128.70	122.45
3	U	579	GLU	O-C-N	5.34	129.41	122.89
4	V	602	PRO	N-CA-C	-5.34	102.29	110.95
4	E	285	LEU	CA-C-O	5.34	125.89	119.59
2	K	424	ASN	N-CA-C	5.34	118.95	111.74
3	L	564	LEU	CA-C-O	5.34	126.20	120.70
4	M	785	LYS	N-CA-C	-5.34	100.95	109.23
4	V	796	THR	O-C-N	-5.34	117.70	123.42
2	C	424	ASN	N-CA-C	5.34	118.95	111.74
6	G	926	ILE	N-CA-C	-5.34	99.95	107.75
7	H	18	SER	CA-C-N	-5.34	113.36	122.33
7	H	18	SER	C-N-CA	-5.34	113.36	122.33
2	K	501	SER	O-C-N	-5.34	116.06	122.15
2	K	502	HIS	CA-C-N	-5.34	114.68	122.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	502	HIS	C-N-CA	-5.34	114.68	122.58
4	V	770	VAL	N-CA-C	-5.34	104.28	111.44
5	W	114	LEU	CA-C-N	5.34	127.87	120.29
5	W	114	LEU	C-N-CA	5.34	127.87	120.29
6	X	926	ILE	N-CA-C	-5.34	99.95	107.75
7	Y	18	SER	CA-C-N	-5.34	113.36	122.33
7	Y	18	SER	C-N-CA	-5.34	113.36	122.33
3	L	1	MET	CA-C-N	5.34	125.24	119.85
3	L	1	MET	C-N-CA	5.34	125.24	119.85
2	T	40	MET	CA-C-N	5.34	131.74	121.54
2	T	40	MET	C-N-CA	5.34	131.74	121.54
3	D	360	HIS	CA-C-N	5.34	128.07	120.49
3	D	360	HIS	C-N-CA	5.34	128.07	120.49
3	D	579	GLU	O-C-N	5.34	129.40	122.89
4	M	602	PRO	N-CA-C	-5.34	102.30	110.95
4	V	616	GLN	CA-C-N	5.33	127.43	120.28
4	V	616	GLN	C-N-CA	5.33	127.43	120.28
2	C	501	SER	O-C-N	-5.33	116.07	122.15
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
3	D	602	ASP	CA-C-N	5.33	127.37	120.44
3	D	602	ASP	C-N-CA	5.33	127.37	120.44
3	D	608	LYS	O-C-N	5.33	128.83	122.27
3	L	776	ASN	CA-C-N	-5.33	113.13	120.28
3	L	776	ASN	C-N-CA	-5.33	113.13	120.28
4	M	770	VAL	N-CA-C	-5.33	104.29	111.44
6	O	176	LEU	N-CA-C	-5.33	104.36	112.04
4	V	381	GLN	CA-C-N	5.33	127.38	120.44
4	V	381	GLN	C-N-CA	5.33	127.38	120.44
3	D	77	ASP	N-CA-C	-5.33	107.08	113.21
2	K	205	ASP	CA-C-N	5.33	130.31	122.63
2	K	205	ASP	C-N-CA	5.33	130.31	122.63
5	N	114	LEU	CA-C-N	5.33	127.86	120.29
5	N	114	LEU	C-N-CA	5.33	127.86	120.29
2	T	700	PHE	CA-C-O	-5.33	114.77	120.42
3	U	401	SER	CA-C-N	5.33	131.54	122.37
3	U	401	SER	C-N-CA	5.33	131.54	122.37
3	L	579	GLU	O-C-N	5.33	129.39	122.89
3	U	360	HIS	CA-C-N	5.33	128.06	120.49
3	U	360	HIS	C-N-CA	5.33	128.06	120.49
4	V	503	GLU	CA-C-O	5.33	126.20	120.55
3	D	401	SER	CA-C-N	5.33	131.54	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	401	SER	C-N-CA	5.33	131.54	122.37
3	L	346	LYS	CA-C-N	5.33	128.28	120.71
3	L	346	LYS	C-N-CA	5.33	128.28	120.71
6	O	953	LEU	O-C-N	5.33	127.77	122.12
3	U	564	LEU	CA-C-O	5.33	126.19	120.70
6	X	953	LEU	O-C-N	5.33	127.77	122.12
2	C	721	LYS	N-CA-C	5.33	117.17	111.36
2	K	40	MET	CA-C-N	5.33	131.71	121.54
2	K	40	MET	C-N-CA	5.33	131.71	121.54
4	M	822	ASN	O-C-N	-5.33	116.19	122.58
2	T	205	ASP	CA-C-N	5.33	130.30	122.63
2	T	205	ASP	C-N-CA	5.33	130.30	122.63
3	L	648	ALA	O-C-N	5.33	127.77	122.12
3	L	654	LEU	CA-C-N	5.33	127.42	120.28
3	L	654	LEU	C-N-CA	5.33	127.42	120.28
4	M	619	ALA	O-C-N	-5.33	116.47	122.12
3	U	346	LYS	CA-C-N	5.33	128.27	120.71
3	U	346	LYS	C-N-CA	5.33	128.27	120.71
4	V	454	ARG	N-CA-C	5.33	116.89	111.14
2	C	205	ASP	CA-C-N	5.32	130.30	122.63
2	C	205	ASP	C-N-CA	5.32	130.30	122.63
3	D	493	GLU	N-CA-C	5.32	117.16	111.36
3	U	602	ASP	CA-C-N	5.32	127.36	120.44
3	U	602	ASP	C-N-CA	5.32	127.36	120.44
2	K	721	LYS	N-CA-C	5.32	117.16	111.36
6	O	90	PRO	CA-C-O	-5.32	110.91	120.60
3	D	184	HIS	N-CA-C	-5.32	100.83	108.60
4	E	822	ASN	O-C-N	-5.32	116.19	122.58
4	M	381	GLN	CA-C-N	5.32	127.36	120.44
4	M	381	GLN	C-N-CA	5.32	127.36	120.44
2	T	556	GLY	N-CA-C	-5.32	107.93	115.43
3	U	92	VAL	CA-C-O	-5.32	115.14	121.05
4	V	68	GLU	CA-C-N	5.32	127.41	120.28
4	V	68	GLU	C-N-CA	5.32	127.41	120.28
4	V	822	ASN	O-C-N	-5.32	116.19	122.58
4	M	782	GLU	N-CA-C	-5.32	106.73	114.12
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
4	M	435	GLY	CA-C-O	5.32	126.23	120.75
4	M	465	LYS	O-C-N	-5.32	116.43	122.23
6	X	90	PRO	CA-C-O	-5.32	110.92	120.60
6	X	212	CYS	CA-C-N	5.32	128.03	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	212	CYS	C-N-CA	5.32	128.03	120.53
4	M	142	ARG	CA-C-O	5.32	126.40	120.82
6	O	162	ILE	CA-C-N	5.32	127.40	120.28
6	O	162	ILE	C-N-CA	5.32	127.40	120.28
2	T	502	HIS	CA-C-N	-5.32	114.71	122.58
2	T	502	HIS	C-N-CA	-5.32	114.71	122.58
3	U	238	HIS	CA-C-O	-5.32	114.51	120.25
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
4	E	566	THR	CA-C-N	5.31	127.40	120.28
4	E	566	THR	C-N-CA	5.31	127.40	120.28
6	X	176	LEU	N-CA-C	-5.31	104.39	112.04
4	E	68	GLU	CA-C-N	5.31	127.40	120.28
4	E	68	GLU	C-N-CA	5.31	127.40	120.28
6	G	176	LEU	N-CA-C	-5.31	104.39	112.04
6	G	260	VAL	CA-C-N	5.31	128.25	120.71
6	G	260	VAL	C-N-CA	5.31	128.25	120.71
2	K	520	ALA	CA-C-N	5.31	127.67	120.44
2	K	520	ALA	C-N-CA	5.31	127.67	120.44
3	L	530	VAL	CA-C-N	5.31	128.00	119.98
3	L	530	VAL	C-N-CA	5.31	128.00	119.98
4	M	68	GLU	CA-C-N	5.31	127.40	120.28
4	M	68	GLU	C-N-CA	5.31	127.40	120.28
2	T	35	LEU	N-CA-C	-5.31	100.24	108.90
3	U	450	TYR	CA-C-N	5.31	129.01	121.42
3	U	450	TYR	C-N-CA	5.31	129.01	121.42
3	L	493	GLU	N-CA-C	5.31	117.15	111.36
3	L	602	ASP	CA-C-N	5.31	127.34	120.44
3	L	602	ASP	C-N-CA	5.31	127.34	120.44
3	L	608	LYS	O-C-N	5.31	128.80	122.27
3	U	468	ILE	O-C-N	-5.31	117.42	123.10
4	E	862	GLU	CA-C-O	-5.31	115.60	121.33
2	K	658	ILE	CA-C-N	5.31	127.83	120.29
2	K	658	ILE	C-N-CA	5.31	127.83	120.29
4	V	46	HIS	CA-C-N	5.31	127.73	120.46
4	V	46	HIS	C-N-CA	5.31	127.73	120.46
4	V	619	ALA	O-C-N	-5.31	116.50	122.12
3	D	754	ALA	CA-C-N	5.30	127.39	120.28
3	D	754	ALA	C-N-CA	5.30	127.39	120.28
5	F	59	ILE	O-C-N	-5.30	117.46	123.03
2	K	587	PRO	CA-C-N	-5.30	113.25	122.37
2	K	587	PRO	C-N-CA	-5.30	113.25	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	558	ALA	CA-C-O	-5.30	112.92	120.51
6	X	162	ILE	CA-C-N	5.30	127.39	120.28
6	X	162	ILE	C-N-CA	5.30	127.39	120.28
6	X	225	LEU	CA-C-O	-5.30	114.93	120.55
6	G	90	PRO	CA-C-O	-5.30	110.95	120.60
6	G	315	GLU	CA-C-N	5.30	130.47	122.99
6	G	315	GLU	C-N-CA	5.30	130.47	122.99
2	T	60	HIS	O-C-N	-5.30	115.93	122.82
3	U	776	ASN	CA-C-N	-5.30	113.17	120.28
3	U	776	ASN	C-N-CA	-5.30	113.17	120.28
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	714	THR	CA-C-O	5.30	125.73	120.32
6	G	180	PHE	N-CA-C	-5.30	99.51	110.80
3	L	360	HIS	CA-C-N	5.30	128.02	120.49
3	L	360	HIS	C-N-CA	5.30	128.02	120.49
6	O	581	PHE	N-CA-C	-5.30	99.68	108.75
2	T	424	ASN	N-CA-C	5.30	118.90	111.74
3	U	184	HIS	N-CA-C	-5.30	100.86	108.60
5	W	59	ILE	O-C-N	-5.30	117.46	123.03
3	D	1	MET	CA-C-N	5.30	125.20	119.85
3	D	1	MET	C-N-CA	5.30	125.20	119.85
6	G	248	CYS	O-C-N	-5.30	116.50	122.12
2	T	721	LYS	N-CA-C	5.30	117.14	111.36
4	M	454	ARG	N-CA-C	5.30	116.86	111.14
4	M	862	GLU	CA-C-O	-5.30	115.61	121.33
2	T	78	TRP	CA-C-N	5.30	129.66	122.19
2	T	78	TRP	C-N-CA	5.30	129.66	122.19
4	V	703	PRO	CA-C-N	5.30	128.78	121.26
4	V	703	PRO	C-N-CA	5.30	128.78	121.26
2	K	35	LEU	N-CA-C	-5.30	100.27	108.90
5	N	62	LEU	N-CA-C	-5.30	100.06	109.06
6	O	849	THR	CA-C-O	-5.30	115.42	121.40
2	T	501	SER	O-C-N	-5.30	116.11	122.15
5	W	62	LEU	N-CA-C	-5.30	100.05	109.06
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
6	O	260	VAL	CA-C-N	5.29	128.23	120.71
6	O	260	VAL	C-N-CA	5.29	128.23	120.71
2	C	556	GLY	N-CA-C	-5.29	107.97	115.43
3	D	776	ASN	CA-C-N	-5.29	113.19	120.28
3	D	776	ASN	C-N-CA	-5.29	113.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	558	ALA	CA-C-O	-5.29	112.94	120.51
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
4	V	782	GLU	N-CA-C	-5.29	106.76	114.12
5	F	62	LEU	N-CA-C	-5.29	100.06	109.06
6	G	849	THR	CA-C-O	-5.29	115.42	121.40
2	K	31	GLY	O-C-N	5.29	128.64	122.45
3	L	401	SER	CA-C-N	5.29	131.47	122.37
3	L	401	SER	C-N-CA	5.29	131.47	122.37
5	N	87	GLU	CA-C-N	5.29	127.80	120.29
5	N	87	GLU	C-N-CA	5.29	127.80	120.29
6	O	551	PHE	N-CA-C	-5.29	103.99	111.56
3	U	608	LYS	O-C-N	5.29	128.78	122.27
3	D	92	VAL	CA-C-O	-5.29	115.18	121.05
6	G	418	ALA	N-CA-C	5.29	116.73	111.07
2	K	60	HIS	O-C-N	-5.29	115.94	122.82
4	V	862	GLU	CA-C-O	-5.29	115.62	121.33
4	E	619	ALA	O-C-N	-5.29	116.51	122.12
6	G	581	PHE	N-CA-C	-5.29	99.71	108.75
6	O	369	ASN	N-CA-C	-5.29	101.03	109.23
6	O	558	ALA	O-C-N	5.29	129.62	122.59
6	X	369	ASN	N-CA-C	-5.29	101.03	109.23
4	E	66	ALA	CA-C-N	5.29	127.36	120.28
4	E	66	ALA	C-N-CA	5.29	127.36	120.28
5	F	87	GLU	CA-C-N	5.29	127.80	120.29
5	F	87	GLU	C-N-CA	5.29	127.80	120.29
3	L	268	ASN	CA-C-O	5.29	127.71	121.58
3	L	468	ILE	O-C-N	-5.29	117.44	123.10
6	O	758	VAL	N-CA-C	-5.29	100.25	108.81
4	V	435	GLY	CA-C-O	5.29	126.20	120.75
4	E	703	PRO	CA-C-N	5.29	128.76	121.26
4	E	703	PRO	C-N-CA	5.29	128.76	121.26
2	K	556	GLY	N-CA-C	-5.29	107.98	115.43
3	L	184	HIS	N-CA-C	-5.29	100.88	108.60
5	N	139	PRO	CA-C-N	5.29	127.80	120.29
5	N	139	PRO	C-N-CA	5.29	127.80	120.29
6	O	248	CYS	O-C-N	-5.29	116.52	122.12
6	X	758	VAL	N-CA-C	-5.29	100.25	108.81
2	C	31	GLY	O-C-N	5.28	128.63	122.45
4	E	454	ARG	N-CA-C	5.28	116.85	111.14
3	L	409	ASN	N-CA-C	-5.28	105.69	113.61
4	M	30	GLU	CA-C-N	5.28	129.06	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	30	GLU	C-N-CA	5.28	129.06	120.60
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
2	T	520	ALA	CA-C-N	5.28	127.63	120.44
2	T	520	ALA	C-N-CA	5.28	127.63	120.44
2	C	35	LEU	N-CA-C	-5.28	100.29	108.90
6	G	558	ALA	O-C-N	5.28	129.62	122.59
3	U	595	GLN	N-CA-C	5.28	117.12	111.36
3	U	678	ILE	CA-C-O	-5.28	115.25	120.85
5	W	50	ASN	N-CA-C	5.28	117.04	111.28
2	K	703	LEU	O-C-N	5.28	127.72	122.12
2	K	797	PRO	CA-C-O	-5.28	112.90	120.56
3	L	678	ILE	CA-C-O	-5.28	115.25	120.85
4	V	30	GLU	CA-C-N	5.28	129.05	120.60
4	V	30	GLU	C-N-CA	5.28	129.05	120.60
6	X	558	ALA	CA-C-O	-5.28	112.96	120.51
2	C	78	TRP	CA-C-N	5.28	129.63	122.19
2	C	78	TRP	C-N-CA	5.28	129.63	122.19
6	G	162	ILE	CA-C-N	5.28	127.35	120.28
6	G	162	ILE	C-N-CA	5.28	127.35	120.28
2	T	797	PRO	CA-C-O	-5.28	112.91	120.56
3	U	530	VAL	CA-C-N	5.28	127.95	119.98
3	U	530	VAL	C-N-CA	5.28	127.95	119.98
4	V	142	ARG	CA-C-O	5.28	126.36	120.82
6	X	180	PHE	N-CA-C	-5.28	99.56	110.80
6	X	315	GLU	CA-C-N	5.28	130.43	122.99
6	X	315	GLU	C-N-CA	5.28	130.43	122.99
2	C	60	HIS	O-C-N	-5.28	115.96	122.82
2	C	587	PRO	CA-C-N	-5.28	113.30	122.37
2	C	587	PRO	C-N-CA	-5.28	113.30	122.37
3	D	268	ASN	CA-C-O	5.28	127.70	121.58
4	E	46	HIS	CA-C-N	5.28	127.69	120.46
4	E	46	HIS	C-N-CA	5.28	127.69	120.46
3	L	238	HIS	CA-C-O	-5.28	114.55	120.25
3	L	754	ALA	CA-C-N	5.28	127.35	120.28
3	L	754	ALA	C-N-CA	5.28	127.35	120.28
4	M	535	LEU	N-CA-C	5.28	116.84	111.14
6	O	180	PHE	N-CA-C	-5.28	99.56	110.80
4	V	66	ALA	CA-C-N	5.28	127.35	120.28
4	V	66	ALA	C-N-CA	5.28	127.35	120.28
4	V	465	LYS	O-C-N	-5.28	116.48	122.23
6	X	230	LEU	CA-C-N	5.28	130.05	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	230	LEU	C-N-CA	5.28	130.05	122.45
2	C	520	ALA	CA-C-N	5.27	127.61	120.44
2	C	520	ALA	C-N-CA	5.27	127.61	120.44
4	V	535	LEU	N-CA-C	5.27	116.84	111.14
6	X	579	ASN	CA-C-N	-5.27	113.92	122.36
6	X	579	ASN	C-N-CA	-5.27	113.92	122.36
3	D	409	ASN	N-CA-C	-5.27	105.70	113.61
2	T	587	PRO	CA-C-N	-5.27	113.30	122.37
2	T	587	PRO	C-N-CA	-5.27	113.30	122.37
3	U	428	PHE	N-CA-C	-5.27	101.69	109.86
4	V	714	THR	CA-C-O	5.27	125.70	120.32
2	K	512	VAL	CA-C-N	-5.27	116.23	123.14
2	K	512	VAL	C-N-CA	-5.27	116.23	123.14
4	V	566	THR	CA-C-N	5.27	127.34	120.28
4	V	566	THR	C-N-CA	5.27	127.34	120.28
6	X	418	ALA	N-CA-C	5.27	116.71	111.07
4	E	465	LYS	O-C-N	-5.27	116.49	122.23
5	F	139	PRO	CA-C-N	5.27	127.77	120.29
5	F	139	PRO	C-N-CA	5.27	127.77	120.29
2	K	44	ILE	N-CA-C	-5.27	105.94	110.74
2	K	432	MET	O-C-N	5.27	128.06	121.84
4	M	714	THR	CA-C-O	5.27	125.70	120.32
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
6	X	789	PRO	N-CA-C	5.27	119.49	111.11
3	D	678	ILE	CA-C-O	-5.27	115.27	120.85
5	N	50	ASN	N-CA-C	5.27	117.02	111.28
5	N	62	LEU	CA-C-N	5.27	131.32	123.05
5	N	62	LEU	C-N-CA	5.27	131.32	123.05
4	V	158	SER	O-C-N	5.27	127.70	122.12
4	E	706	CYS	N-CA-C	-5.27	101.36	109.52
3	U	754	ALA	CA-C-N	5.27	127.34	120.28
3	U	754	ALA	C-N-CA	5.27	127.34	120.28
3	D	238	HIS	CA-C-O	-5.26	114.56	120.25
4	E	863	GLU	CA-C-O	5.26	126.00	120.42
6	G	758	VAL	N-CA-C	-5.26	100.28	108.81
2	T	512	VAL	CA-C-N	-5.26	116.24	123.14
2	T	512	VAL	C-N-CA	-5.26	116.24	123.14
4	M	66	ALA	CA-C-N	5.26	127.33	120.28
4	M	66	ALA	C-N-CA	5.26	127.33	120.28
4	M	703	PRO	CA-C-N	5.26	128.73	121.26
4	M	703	PRO	C-N-CA	5.26	128.73	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	425	LYS	CA-C-N	5.26	126.42	119.84
3	U	425	LYS	C-N-CA	5.26	126.42	119.84
6	X	849	THR	CA-C-O	-5.26	115.45	121.40
5	F	62	LEU	CA-C-N	5.26	131.31	123.05
5	F	62	LEU	C-N-CA	5.26	131.31	123.05
2	K	404	ASN	O-C-N	-5.26	117.72	121.83
2	T	44	ILE	N-CA-C	-5.26	105.95	110.74
2	C	404	ASN	O-C-N	-5.26	117.73	121.83
2	C	512	VAL	CA-C-N	-5.26	116.25	123.14
2	C	512	VAL	C-N-CA	-5.26	116.25	123.14
2	C	797	PRO	CA-C-O	-5.26	112.93	120.56
4	E	286	ALA	O-C-N	-5.26	115.27	121.32
4	M	566	THR	CA-C-N	5.26	127.33	120.28
4	M	566	THR	C-N-CA	5.26	127.33	120.28
2	T	432	MET	O-C-N	5.26	128.04	121.84
4	V	706	CYS	N-CA-C	-5.26	101.37	109.52
6	X	248	CYS	O-C-N	-5.26	116.55	122.12
7	H	47	THR	CA-C-O	-5.26	114.16	120.10
3	L	428	PHE	N-CA-C	-5.26	101.71	109.86
2	C	432	MET	O-C-N	5.26	128.04	121.84
3	D	595	GLN	N-CA-C	5.26	117.09	111.36
7	Y	47	THR	CA-C-O	-5.26	114.16	120.10
4	E	782	GLU	N-CA-C	-5.25	106.81	114.12
6	O	225	LEU	CA-C-O	-5.25	114.98	120.55
4	V	219	THR	N-CA-C	5.25	117.01	111.28
5	W	139	PRO	CA-C-N	5.25	127.75	120.29
5	W	139	PRO	C-N-CA	5.25	127.75	120.29
6	X	260	VAL	CA-C-N	5.25	128.17	120.71
6	X	260	VAL	C-N-CA	5.25	128.17	120.71
2	C	44	ILE	N-CA-C	-5.25	105.96	110.74
3	D	428	PHE	N-CA-C	-5.25	101.72	109.86
6	G	487	PRO	CA-C-N	5.25	129.63	120.86
6	G	487	PRO	C-N-CA	5.25	129.63	120.86
6	X	581	PHE	N-CA-C	-5.25	99.77	108.75
3	D	468	ILE	O-C-N	-5.25	117.48	123.10
2	K	699	ASN	O-C-N	5.25	129.57	122.59
6	O	418	ALA	N-CA-C	5.25	116.69	111.07
3	U	530	VAL	N-CA-C	-5.25	99.60	107.37
6	G	369	ASN	N-CA-C	-5.25	101.09	109.23
6	G	512	GLN	O-C-N	5.25	127.69	122.12
3	L	208	ASP	N-CA-C	-5.25	107.05	112.93
4	M	46	HIS	CA-C-N	5.25	127.65	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	46	HIS	C-N-CA	5.25	127.65	120.46
6	G	230	LEU	CA-C-N	5.25	130.01	122.45
6	G	230	LEU	C-N-CA	5.25	130.01	122.45
4	M	863	GLU	CA-C-O	5.25	125.98	120.42
2	T	703	LEU	O-C-N	5.25	127.68	122.12
3	U	1	MET	CA-C-N	5.25	125.15	119.85
3	U	1	MET	C-N-CA	5.25	125.15	119.85
6	G	551	PHE	N-CA-C	-5.25	104.06	111.56
3	L	530	VAL	N-CA-C	-5.25	99.61	107.37
3	U	177	PRO	N-CA-C	-5.25	101.66	112.47
3	D	208	ASP	N-CA-C	-5.25	107.06	112.93
4	M	219	THR	N-CA-C	5.25	117.00	111.28
6	O	579	ASN	CA-C-N	-5.25	113.97	122.36
6	O	579	ASN	C-N-CA	-5.25	113.97	122.36
3	U	268	ASN	CA-C-O	5.25	127.66	121.58
2	C	703	LEU	O-C-N	5.24	127.68	122.12
6	O	487	PRO	CA-C-N	5.24	129.62	120.86
6	O	487	PRO	C-N-CA	5.24	129.62	120.86
6	G	461	ILE	CA-C-N	5.24	127.31	120.28
6	G	461	ILE	C-N-CA	5.24	127.31	120.28
3	U	409	ASN	N-CA-C	-5.24	105.75	113.61
2	C	548	HIS	CA-C-O	5.24	127.24	121.11
3	D	554	ILE	N-CA-C	-5.24	105.29	111.00
4	E	179	ASN	CA-C-N	5.24	127.73	120.29
4	E	179	ASN	C-N-CA	5.24	127.73	120.29
4	E	318	HIS	O-C-N	-5.24	115.29	121.32
6	O	413	ASN	N-CA-C	-5.24	102.76	110.52
5	W	62	LEU	CA-C-N	5.24	131.28	123.05
5	W	62	LEU	C-N-CA	5.24	131.28	123.05
6	X	461	ILE	CA-C-N	5.24	127.30	120.28
6	X	461	ILE	C-N-CA	5.24	127.30	120.28
6	X	487	PRO	CA-C-N	5.24	129.61	120.86
6	X	487	PRO	C-N-CA	5.24	129.61	120.86
4	E	142	ARG	CA-C-O	5.24	126.32	120.82
5	F	50	ASN	N-CA-C	5.24	116.99	111.28
3	L	425	LYS	CA-C-N	5.24	126.39	119.84
3	L	425	LYS	C-N-CA	5.24	126.39	119.84
2	T	699	ASN	O-C-N	5.24	129.56	122.59
3	U	208	ASP	N-CA-C	-5.24	107.06	112.93
6	X	558	ALA	O-C-N	5.24	129.56	122.59
6	G	579	ASN	CA-C-N	-5.24	113.98	122.36
6	G	579	ASN	C-N-CA	-5.24	113.98	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	551	PHE	N-CA-C	-5.24	104.07	111.56
3	L	552	VAL	N-CA-C	-5.24	100.79	108.85
4	M	231	MET	O-C-N	5.24	127.67	122.12
2	T	679	GLU	CA-C-N	5.24	127.63	120.46
2	T	679	GLU	C-N-CA	5.24	127.63	120.46
3	U	552	VAL	N-CA-C	-5.24	100.79	108.85
3	U	554	ILE	N-CA-C	-5.24	105.29	111.00
2	K	9	SER	O-C-N	5.23	127.65	122.10
6	X	48	MET	CA-C-O	-5.23	114.87	120.42
4	E	158	SER	O-C-N	5.23	127.67	122.12
7	H	89	VAL	N-CA-C	5.23	116.00	110.72
2	K	72	ASP	CA-C-N	5.23	131.53	121.54
2	K	72	ASP	C-N-CA	5.23	131.53	121.54
4	M	179	ASN	CA-C-N	5.23	127.72	120.29
4	M	179	ASN	C-N-CA	5.23	127.72	120.29
4	M	706	CYS	N-CA-C	-5.23	101.41	109.52
4	V	379	VAL	CA-C-O	-5.23	115.31	120.85
3	L	177	PRO	N-CA-C	-5.23	101.70	112.47
2	T	9	SER	O-C-N	5.23	127.64	122.10
2	T	537	GLU	CA-C-N	5.23	131.53	121.54
2	T	537	GLU	C-N-CA	5.23	131.53	121.54
4	V	863	GLU	CA-C-O	5.23	125.97	120.42
6	X	413	ASN	N-CA-C	-5.23	102.78	110.52
2	C	72	ASP	CA-C-N	5.23	131.53	121.54
2	C	72	ASP	C-N-CA	5.23	131.53	121.54
3	D	669	LYS	CA-C-O	5.23	126.31	120.82
4	E	219	THR	N-CA-C	5.23	116.98	111.28
4	E	435	GLY	CA-C-O	5.23	126.14	120.75
4	M	318	HIS	O-C-N	-5.23	115.31	121.32
4	V	392	ARG	N-CA-C	-5.23	105.61	112.41
2	C	601	LEU	N-CA-C	-5.23	105.66	111.36
4	E	231	MET	O-C-N	5.23	127.66	122.12
6	G	225	LEU	CA-C-O	-5.23	115.01	120.55
3	L	3	LEU	O-C-N	-5.23	117.52	123.48
6	O	133	LEU	CA-C-N	5.23	127.26	120.26
6	O	133	LEU	C-N-CA	5.23	127.26	120.26
6	O	461	ILE	CA-C-N	5.23	127.29	120.28
6	O	461	ILE	C-N-CA	5.23	127.29	120.28
2	T	72	ASP	CA-C-N	5.23	131.52	121.54
2	T	72	ASP	C-N-CA	5.23	131.52	121.54
3	D	552	VAL	N-CA-C	-5.23	100.80	108.85
2	C	699	ASN	O-C-N	5.22	129.54	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	425	LYS	CA-C-N	5.22	126.37	119.84
3	D	425	LYS	C-N-CA	5.22	126.37	119.84
3	L	669	LYS	CA-C-O	5.22	126.31	120.82
7	P	47	THR	CA-C-O	-5.22	114.20	120.10
2	T	182	ARG	N-CA-C	-5.22	100.51	109.24
6	X	35	VAL	CA-C-N	5.22	127.71	120.29
6	X	35	VAL	C-N-CA	5.22	127.71	120.29
4	V	179	ASN	CA-C-N	5.22	127.71	120.29
4	V	179	ASN	C-N-CA	5.22	127.71	120.29
4	V	286	ALA	O-C-N	-5.22	115.31	121.32
6	X	967	SER	CA-C-N	5.22	131.10	121.70
6	X	967	SER	C-N-CA	5.22	131.10	121.70
7	Y	89	VAL	N-CA-C	5.22	115.99	110.72
2	C	664	ALA	CA-C-N	5.22	127.27	120.28
2	C	664	ALA	C-N-CA	5.22	127.27	120.28
3	D	530	VAL	N-CA-C	-5.22	99.64	107.37
4	E	535	LEU	N-CA-C	5.22	116.78	111.14
6	G	133	LEU	CA-C-N	5.22	127.25	120.26
6	G	133	LEU	C-N-CA	5.22	127.25	120.26
3	L	554	ILE	N-CA-C	-5.22	105.31	111.00
6	O	512	GLN	O-C-N	5.22	127.65	122.12
6	X	252	LEU	N-CA-C	-5.22	103.42	110.68
6	X	856	ARG	O-C-N	-5.22	116.69	122.07
2	C	302	ASN	N-CA-C	-5.22	106.60	113.17
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
3	L	595	GLN	N-CA-C	5.22	117.05	111.36
4	E	392	ARG	N-CA-C	-5.22	105.63	112.41
6	G	252	LEU	N-CA-C	-5.22	103.43	110.68
2	C	182	ARG	N-CA-C	-5.21	100.53	109.24
3	D	177	PRO	N-CA-C	-5.21	101.73	112.47
4	M	158	SER	O-C-N	5.21	127.65	122.12
7	P	89	VAL	N-CA-C	5.21	115.99	110.72
6	X	133	LEU	CA-C-N	5.21	127.25	120.26
6	X	133	LEU	C-N-CA	5.21	127.25	120.26
2	K	601	LEU	N-CA-C	-5.21	105.68	111.36
2	K	751	ASN	O-C-N	-5.21	115.86	122.27
4	M	379	VAL	CA-C-O	-5.21	115.33	120.85
6	G	35	VAL	CA-C-N	5.21	127.69	120.29
6	G	35	VAL	C-N-CA	5.21	127.69	120.29
6	G	856	ARG	O-C-N	-5.21	116.70	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	M	286	ALA	O-C-N	-5.21	115.33	121.32
6	O	230	LEU	CA-C-N	5.21	129.96	122.45
6	O	230	LEU	C-N-CA	5.21	129.96	122.45
2	T	601	LEU	N-CA-C	-5.21	105.68	111.36
4	V	471	LYS	O-C-N	-5.21	116.59	122.12
2	K	302	ASN	N-CA-C	-5.21	106.61	113.17
6	G	413	ASN	N-CA-C	-5.21	102.81	110.52
6	G	967	SER	CA-C-N	5.21	131.07	121.70
6	G	967	SER	C-N-CA	5.21	131.07	121.70
7	H	62	GLU	N-CA-C	5.21	116.88	108.08
2	K	396	ILE	CA-C-O	-5.21	114.42	118.85
2	T	664	ALA	CA-C-N	5.21	127.26	120.28
2	T	664	ALA	C-N-CA	5.21	127.26	120.28
2	C	537	GLU	CA-C-N	5.21	131.49	121.54
2	C	537	GLU	C-N-CA	5.21	131.49	121.54
3	L	356	GLN	O-C-N	5.21	128.09	122.15
2	T	548	HIS	CA-C-O	5.21	127.20	121.11
5	W	27	PHE	N-CA-C	5.21	117.65	108.75
6	X	512	GLN	O-C-N	5.21	127.64	122.12
4	M	471	LYS	O-C-N	-5.21	116.60	122.12
3	U	356	GLN	O-C-N	5.21	128.08	122.15
6	G	48	MET	CA-C-O	-5.20	114.90	120.42
7	H	112	ALA	O-C-N	-5.20	116.61	122.12
4	M	392	ARG	N-CA-C	-5.20	105.64	112.41
5	N	79	VAL	N-CA-C	-5.20	100.71	108.46
6	O	252	LEU	N-CA-C	-5.20	103.45	110.68
6	O	856	ARG	O-C-N	-5.20	116.71	122.07
4	V	231	MET	O-C-N	5.20	127.64	122.12
7	Y	112	ALA	O-C-N	-5.20	116.60	122.12
6	G	371	SER	N-CA-C	-5.20	104.54	111.87
5	F	79	VAL	N-CA-C	-5.20	100.71	108.46
2	K	679	GLU	CA-C-N	5.20	127.58	120.46
2	K	679	GLU	C-N-CA	5.20	127.58	120.46
6	O	967	SER	CA-C-N	5.20	131.06	121.70
6	O	967	SER	C-N-CA	5.20	131.06	121.70
2	T	396	ILE	CA-C-O	-5.20	114.43	118.85
2	C	796	GLN	CA-C-O	-5.20	113.94	120.23
4	E	379	VAL	CA-C-O	-5.20	115.34	120.85
4	E	471	LYS	O-C-N	-5.20	116.61	122.12
1	I	130	LEU	CA-C-N	5.20	124.65	119.24
1	I	130	LEU	C-N-CA	5.20	124.65	119.24
4	M	457	HIS	CA-C-O	-5.20	115.36	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	643	HIS	N-CA-C	-5.20	105.69	111.36
2	C	396	ILE	CA-C-O	-5.20	114.43	118.85
2	K	537	GLU	CA-C-N	5.20	131.47	121.54
2	K	537	GLU	C-N-CA	5.20	131.47	121.54
3	U	203	ILE	CA-C-O	-5.20	115.25	121.28
3	D	3	LEU	O-C-N	-5.20	117.56	123.48
6	O	525	SER	N-CA-C	-5.20	99.86	108.75
2	T	751	ASN	O-C-N	-5.20	115.88	122.27
6	X	344	ALA	N-CA-C	-5.20	105.51	111.07
3	D	643	HIS	N-CA-C	-5.19	105.70	111.36
7	Y	62	GLU	N-CA-C	5.19	116.86	108.08
2	K	182	ARG	N-CA-C	-5.19	100.57	109.24
6	O	41	ALA	CA-C-N	5.19	127.24	120.28
6	O	41	ALA	C-N-CA	5.19	127.24	120.28
6	O	199	HIS	CA-C-O	-5.19	115.17	120.99
2	T	233	ARG	N-CA-C	-5.19	100.27	108.73
3	U	357	THR	N-CA-C	-5.19	100.23	109.06
4	V	743	ASP	CA-C-N	5.19	127.66	120.29
4	V	743	ASP	C-N-CA	5.19	127.66	120.29
2	K	796	GLN	CA-C-O	-5.19	113.95	120.23
6	O	344	ALA	N-CA-C	-5.19	105.52	111.07
5	N	27	PHE	N-CA-C	5.19	117.62	108.75
6	O	154	ASN	N-CA-C	-5.19	105.62	111.28
7	P	62	GLU	N-CA-C	5.19	116.85	108.08
2	T	404	ASN	O-C-N	-5.19	117.78	121.83
5	W	79	VAL	N-CA-C	-5.19	100.73	108.46
5	F	27	PHE	N-CA-C	5.18	117.62	108.75
3	L	643	HIS	N-CA-C	-5.18	105.71	111.36
6	O	384	VAL	CA-C-O	-5.18	115.67	121.17
2	C	21	ARG	CA-C-O	-5.18	115.70	120.94
6	G	384	VAL	CA-C-O	-5.18	115.68	121.17
1	R	130	LEU	CA-C-N	5.18	124.63	119.24
1	R	130	LEU	C-N-CA	5.18	124.63	119.24
3	U	3	LEU	O-C-N	-5.18	117.57	123.48
6	X	371	SER	N-CA-C	-5.18	104.56	111.87
2	C	233	ARG	N-CA-C	-5.18	100.29	108.73
4	E	457	HIS	CA-C-O	-5.18	115.38	120.82
6	O	106	ARG	CA-C-N	5.18	127.22	120.28
6	O	106	ARG	C-N-CA	5.18	127.22	120.28
6	O	371	SER	N-CA-C	-5.18	104.57	111.87
2	T	796	GLN	CA-C-O	-5.18	113.96	120.23
6	X	41	ALA	CA-C-N	5.18	127.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	41	ALA	C-N-CA	5.18	127.22	120.28
6	O	951	MET	N-CA-C	-5.18	106.36	113.30
6	X	837	ILE	N-CA-C	5.18	120.11	109.34
2	C	679	GLU	CA-C-N	5.18	127.55	120.46
2	C	679	GLU	C-N-CA	5.18	127.55	120.46
6	G	41	ALA	CA-C-N	5.18	127.22	120.28
6	G	41	ALA	C-N-CA	5.18	127.22	120.28
2	T	441	LYS	CA-C-N	5.18	131.43	121.54
2	T	441	LYS	C-N-CA	5.18	131.43	121.54
6	X	525	SER	N-CA-C	-5.18	99.90	108.75
3	D	356	GLN	O-C-N	5.17	128.05	122.15
3	D	580	LEU	CA-C-N	5.17	132.84	123.27
3	D	580	LEU	C-N-CA	5.17	132.84	123.27
6	G	837	ILE	N-CA-C	5.17	120.10	109.34
2	K	548	HIS	CA-C-O	5.17	127.16	121.11
4	V	661	PHE	N-CA-C	-5.17	100.74	109.07
6	X	492	GLU	N-CA-C	5.17	117.00	111.36
6	O	48	MET	CA-C-O	-5.17	114.94	120.42
2	C	9	SER	O-C-N	5.17	127.58	122.10
4	E	661	PHE	N-CA-C	-5.17	100.74	109.07
2	K	233	ARG	N-CA-C	-5.17	100.30	108.73
2	K	382	ARG	CA-C-N	5.17	131.42	121.54
2	K	382	ARG	C-N-CA	5.17	131.42	121.54
3	L	639	THR	N-CA-C	-5.17	105.72	111.36
4	M	661	PHE	N-CA-C	-5.17	100.75	109.07
6	O	323	MET	CA-C-N	5.17	127.73	120.28
6	O	323	MET	C-N-CA	5.17	127.73	120.28
6	O	837	ILE	N-CA-C	5.17	120.10	109.34
6	G	951	MET	N-CA-C	-5.17	106.37	113.30
2	T	302	ASN	N-CA-C	-5.17	106.66	113.17
4	V	802	GLY	CA-C-O	-5.17	115.42	120.75
7	Y	57	VAL	CA-C-N	-5.17	113.52	122.10
7	Y	57	VAL	C-N-CA	-5.17	113.52	122.10
2	C	242	VAL	CA-C-N	5.17	130.68	122.62
2	C	242	VAL	C-N-CA	5.17	130.68	122.62
3	D	116	THR	N-CA-C	-5.17	101.33	109.50
3	D	357	THR	N-CA-C	-5.17	100.27	109.06
3	U	580	LEU	CA-C-N	5.17	132.83	123.27
3	U	580	LEU	C-N-CA	5.17	132.83	123.27
4	V	318	HIS	O-C-N	-5.17	115.38	121.32
1	A	130	LEU	CA-C-N	5.17	124.61	119.24
1	A	130	LEU	C-N-CA	5.17	124.61	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	199	HIS	CA-C-O	-5.17	115.20	120.99
7	H	57	VAL	CA-C-N	-5.17	113.52	122.10
7	H	57	VAL	C-N-CA	-5.17	113.52	122.10
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	L	580	LEU	CA-C-N	5.17	132.82	123.27
3	L	580	LEU	C-N-CA	5.17	132.82	123.27
6	O	128	LYS	N-CA-C	-5.17	106.57	112.92
2	T	382	ARG	CA-C-N	5.17	131.41	121.54
2	T	382	ARG	C-N-CA	5.17	131.41	121.54
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
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
6	G	919	ASP	N-CA-C	-5.16	101.86	109.86
6	O	492	GLU	N-CA-C	5.16	116.99	111.36
6	O	919	ASP	N-CA-C	-5.16	101.86	109.86
2	T	404	ASN	N-CA-C	-5.16	101.45	108.11
4	V	457	HIS	CA-C-O	-5.16	115.40	120.82
2	C	382	ARG	CA-C-N	5.16	131.40	121.54
2	C	382	ARG	C-N-CA	5.16	131.40	121.54
3	U	669	LYS	CA-C-O	5.16	126.24	120.82
6	X	95	LEU	CA-C-N	5.16	130.62	121.80
6	X	95	LEU	C-N-CA	5.16	130.62	121.80
6	X	323	MET	CA-C-N	5.16	127.71	120.28
6	X	323	MET	C-N-CA	5.16	127.71	120.28
3	D	203	ILE	CA-C-O	-5.16	115.30	121.28
6	G	106	ARG	CA-C-N	5.16	127.19	120.28
6	G	106	ARG	C-N-CA	5.16	127.19	120.28
5	N	71	SER	CA-C-N	5.16	131.39	121.54
5	N	71	SER	C-N-CA	5.16	131.39	121.54
6	X	384	VAL	CA-C-O	-5.16	115.70	121.17
2	C	751	ASN	O-C-N	-5.16	115.93	122.27
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
7	P	112	ALA	O-C-N	-5.16	116.65	122.12
3	U	637	VAL	CA-C-N	5.16	128.65	121.02
3	U	637	VAL	C-N-CA	5.16	128.65	121.02
4	E	758	VAL	O-C-N	-5.16	117.61	123.18
4	M	743	ASP	CA-C-N	5.16	127.61	120.29
4	M	743	ASP	C-N-CA	5.16	127.61	120.29
3	U	173	GLY	CA-C-O	5.16	125.97	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	393	ARG	N-CA-C	5.16	116.71	111.14
6	X	951	MET	N-CA-C	-5.16	106.39	113.30
6	G	20	PRO	O-C-N	-5.15	115.38	121.46
6	G	323	MET	CA-C-N	5.15	127.70	120.28
6	G	323	MET	C-N-CA	5.15	127.70	120.28
2	K	441	LYS	CA-C-N	5.15	131.38	121.54
2	K	441	LYS	C-N-CA	5.15	131.38	121.54
5	W	93	VAL	CA-C-N	5.15	127.19	120.28
5	W	93	VAL	C-N-CA	5.15	127.19	120.28
2	C	344	LEU	CA-C-O	5.15	127.88	120.51
4	E	802	GLY	CA-C-O	-5.15	115.44	120.75
6	G	154	ASN	N-CA-C	-5.15	105.66	111.28
6	G	244	ARG	CA-C-N	5.15	127.18	120.28
6	G	244	ARG	C-N-CA	5.15	127.18	120.28
3	L	173	GLY	CA-C-O	5.15	125.97	120.30
6	O	950	GLY	N-CA-C	-5.15	100.97	113.18
7	P	118	ALA	CA-C-O	-5.15	114.79	120.30
6	X	128	LYS	N-CA-C	-5.15	106.58	112.92
1	B	130	LEU	CA-C-N	5.15	124.60	119.24
1	B	130	LEU	C-N-CA	5.15	124.60	119.24
3	D	639	THR	N-CA-C	-5.15	105.75	111.36
6	G	525	SER	N-CA-C	-5.15	99.94	108.75
2	K	21	ARG	CA-C-O	-5.15	115.74	120.94
2	K	404	ASN	N-CA-C	-5.15	101.47	108.11
3	L	357	THR	N-CA-C	-5.15	100.31	109.06
5	F	71	SER	CA-C-N	5.15	131.38	121.54
5	F	71	SER	C-N-CA	5.15	131.38	121.54
6	X	950	GLY	N-CA-C	-5.15	100.98	113.18
3	D	522	GLU	CA-C-N	5.15	127.50	120.35
3	D	522	GLU	C-N-CA	5.15	127.50	120.35
7	H	118	ALA	CA-C-O	-5.15	114.79	120.30
2	K	112	SER	CA-C-O	5.15	127.55	121.58
7	P	20	GLN	N-CA-C	-5.15	98.88	107.99
4	V	81	ASP	N-CA-C	-5.15	100.47	109.48
6	X	106	ARG	CA-C-N	5.15	127.18	120.28
6	X	106	ARG	C-N-CA	5.15	127.18	120.28
3	U	116	THR	N-CA-C	-5.15	101.37	109.50
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
3	L	203	ILE	CA-C-O	-5.14	115.31	121.28
3	L	777	LEU	N-CA-C	5.14	116.89	111.28
4	M	256	GLU	N-CA-C	-5.14	99.84	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	X	199	HIS	CA-C-O	-5.14	115.23	120.99
3	D	539	SER	CA-C-N	5.14	130.35	122.69
3	D	539	SER	C-N-CA	5.14	130.35	122.69
6	G	950	GLY	N-CA-C	-5.14	100.99	113.18
7	P	57	VAL	CA-C-N	-5.14	113.56	122.10
7	P	57	VAL	C-N-CA	-5.14	113.56	122.10
3	U	217	GLN	CA-C-O	5.14	126.00	120.55
3	U	330	MET	N-CA-C	-5.14	100.92	108.79
6	X	244	ARG	CA-C-N	5.14	127.17	120.28
6	X	244	ARG	C-N-CA	5.14	127.17	120.28
7	Y	20	GLN	N-CA-C	-5.14	98.89	107.99
3	D	611	PRO	O-C-N	5.14	129.13	122.24
6	X	576	LYS	CA-C-N	5.14	131.36	121.54
6	X	576	LYS	C-N-CA	5.14	131.36	121.54
3	D	695	ASP	O-C-N	-5.14	116.69	122.86
6	G	492	GLU	N-CA-C	5.14	116.96	111.36
7	H	20	GLN	N-CA-C	-5.14	98.89	107.99
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
2	T	242	VAL	CA-C-N	5.14	130.64	122.62
2	T	242	VAL	C-N-CA	5.14	130.64	122.62
3	D	330	MET	N-CA-C	-5.14	100.93	108.79
6	G	144	LEU	CA-C-O	5.14	125.85	119.79
2	K	344	LEU	CA-C-O	5.14	127.85	120.51
3	L	217	GLN	CA-C-O	5.14	125.99	120.55
4	M	802	GLY	CA-C-O	-5.14	115.46	120.75
3	U	639	THR	N-CA-C	-5.14	105.76	111.36
5	F	93	VAL	CA-C-N	5.13	127.16	120.28
5	F	93	VAL	C-N-CA	5.13	127.16	120.28
4	V	256	GLU	N-CA-C	-5.13	99.87	110.80
6	X	919	ASP	N-CA-C	-5.13	101.91	109.86
3	D	217	GLN	CA-C-O	5.13	125.99	120.55
3	D	731	SER	N-CA-C	5.13	116.87	111.28
3	L	330	MET	N-CA-C	-5.13	100.94	108.79
3	L	598	VAL	CA-C-N	5.13	127.15	120.28
3	L	598	VAL	C-N-CA	5.13	127.15	120.28
2	C	404	ASN	N-CA-C	-5.13	101.49	108.11
6	G	416	ALA	CA-C-N	5.13	127.15	120.28
6	G	416	ALA	C-N-CA	5.13	127.15	120.28
1	J	130	LEU	CA-C-N	5.13	124.57	119.24
1	J	130	LEU	C-N-CA	5.13	124.57	119.24
1	S	130	LEU	CA-C-N	5.13	124.57	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	130	LEU	C-N-CA	5.13	124.57	119.24
4	E	256	GLU	N-CA-C	-5.13	99.88	110.80
3	L	116	THR	N-CA-C	-5.13	101.40	109.50
4	M	81	ASP	N-CA-C	-5.13	100.51	109.48
4	E	81	ASP	N-CA-C	-5.12	100.51	109.48
3	L	283	SER	N-CA-C	5.12	121.72	110.80
4	M	758	VAL	O-C-N	-5.12	117.64	123.18
2	T	1078	LEU	N-CA-C	-5.12	105.69	111.28
3	D	283	SER	N-CA-C	5.12	121.72	110.80
2	K	242	VAL	CA-C-N	5.12	130.61	122.62
2	K	242	VAL	C-N-CA	5.12	130.61	122.62
3	L	522	GLU	CA-C-N	5.12	127.47	120.35
3	L	522	GLU	C-N-CA	5.12	127.47	120.35
6	O	95	LEU	CA-C-N	5.12	130.56	121.80
6	O	95	LEU	C-N-CA	5.12	130.56	121.80
6	O	244	ARG	CA-C-N	5.12	127.15	120.28
6	O	244	ARG	C-N-CA	5.12	127.15	120.28
3	L	539	SER	CA-C-N	5.12	130.32	122.69
3	L	539	SER	C-N-CA	5.12	130.32	122.69
2	T	21	ARG	CA-C-O	-5.12	115.77	120.94
3	U	358	ILE	N-CA-C	-5.12	100.69	108.17
3	U	539	SER	CA-C-N	5.12	130.32	122.69
3	U	539	SER	C-N-CA	5.12	130.32	122.69
4	M	772	PHE	CA-C-N	5.12	127.14	120.28
4	M	772	PHE	C-N-CA	5.12	127.14	120.28
6	O	416	ALA	CA-C-N	5.12	127.14	120.28
6	O	416	ALA	C-N-CA	5.12	127.14	120.28
2	T	344	LEU	CA-C-O	5.12	127.83	120.51
3	U	283	SER	N-CA-C	5.12	121.70	110.80
4	E	772	PHE	CA-C-N	5.12	127.13	120.28
4	E	772	PHE	C-N-CA	5.12	127.13	120.28
6	G	128	LYS	N-CA-C	-5.12	106.63	112.92
6	G	576	LYS	CA-C-N	5.12	131.31	121.54
6	G	576	LYS	C-N-CA	5.12	131.31	121.54
2	K	1078	LEU	N-CA-C	-5.12	105.70	111.28
5	N	93	VAL	CA-C-N	5.12	127.14	120.28
5	N	93	VAL	C-N-CA	5.12	127.14	120.28
6	O	939	THR	N-CA-C	-5.12	99.91	110.80
3	U	522	GLU	CA-C-N	5.12	127.46	120.35
3	U	522	GLU	C-N-CA	5.12	127.46	120.35
3	L	695	ASP	O-C-N	-5.11	116.72	122.86
6	X	939	THR	N-CA-C	-5.11	99.91	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	335	ILE	CA-C-N	5.11	131.30	121.54
3	L	335	ILE	C-N-CA	5.11	131.30	121.54
6	O	20	PRO	O-C-N	-5.11	115.43	121.46
3	U	777	LEU	N-CA-C	5.11	116.85	111.28
6	X	759	LEU	N-CA-C	-5.11	100.12	108.76
6	X	154	ASN	N-CA-C	-5.11	105.60	111.07
7	Y	118	ALA	CA-C-O	-5.11	114.83	120.30
3	L	637	VAL	CA-C-N	5.11	128.58	121.02
3	L	637	VAL	C-N-CA	5.11	128.58	121.02
4	M	42	ARG	N-CA-C	5.11	116.53	111.07
6	O	393	ARG	N-CA-C	5.11	116.65	111.14
2	T	85	CYS	O-C-N	5.11	129.06	122.93
6	G	939	THR	N-CA-C	-5.10	99.93	110.80
3	L	358	ILE	N-CA-C	-5.10	100.72	108.17
2	C	112	SER	CA-C-O	5.10	127.50	121.58
6	G	759	LEU	N-CA-C	-5.10	100.14	108.76
4	M	68	GLU	N-CA-C	5.10	116.84	111.28
4	V	819	VAL	CA-C-N	5.10	125.26	119.90
4	V	819	VAL	C-N-CA	5.10	125.26	119.90
4	E	381	GLN	CA-C-N	5.10	127.38	120.44
4	E	381	GLN	C-N-CA	5.10	127.38	120.44
6	O	294	ASP	CA-C-O	-5.10	115.14	120.55
3	D	358	ILE	N-CA-C	-5.10	100.72	108.17
6	O	263	GLU	N-CA-C	-5.10	106.65	112.92
3	L	731	SER	N-CA-C	5.10	116.84	111.28
5	N	86	ASN	CA-C-N	5.10	127.11	120.28
5	N	86	ASN	C-N-CA	5.10	127.11	120.28
4	V	42	ARG	N-CA-C	5.10	116.53	111.07
3	U	695	ASP	O-C-N	-5.10	116.75	122.86
6	X	20	PRO	O-C-N	-5.10	115.45	121.46
6	X	416	ALA	CA-C-N	5.10	127.11	120.28
6	X	416	ALA	C-N-CA	5.10	127.11	120.28
2	C	246	ARG	N-CA-C	-5.09	100.73	109.24
6	G	833	VAL	N-CA-C	-5.09	101.04	108.17
6	O	759	LEU	N-CA-C	-5.09	100.15	108.76
2	T	715	LYS	CA-C-N	5.09	127.11	120.28
2	T	715	LYS	C-N-CA	5.09	127.11	120.28
6	X	833	VAL	N-CA-C	-5.09	101.04	108.17
2	C	256	VAL	O-C-N	-5.09	117.27	123.02
2	C	758	ALA	CA-C-N	5.09	127.37	120.44
2	C	758	ALA	C-N-CA	5.09	127.37	120.44
4	E	819	VAL	CA-C-N	5.09	125.25	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	819	VAL	C-N-CA	5.09	125.25	119.90
3	U	335	ILE	CA-C-N	5.09	131.27	121.54
3	U	335	ILE	C-N-CA	5.09	131.27	121.54
3	D	173	GLY	CA-C-O	5.09	125.90	120.30
6	G	70	GLN	N-CA-C	-5.09	106.85	113.16
6	O	833	VAL	N-CA-C	-5.09	101.04	108.17
3	L	611	PRO	O-C-N	5.09	129.06	122.24
6	G	393	ARG	N-CA-C	5.09	116.64	111.14
3	L	228	HIS	CA-C-N	5.09	131.10	122.65
3	L	228	HIS	C-N-CA	5.09	131.10	122.65
3	D	228	HIS	CA-C-N	5.09	131.09	122.65
3	D	228	HIS	C-N-CA	5.09	131.09	122.65
3	D	335	ILE	CA-C-N	5.09	131.25	121.54
3	D	335	ILE	C-N-CA	5.09	131.25	121.54
3	U	731	SER	N-CA-C	5.09	116.82	111.28
6	X	144	LEU	CA-C-O	5.09	125.79	119.79
6	X	263	GLU	N-CA-C	-5.09	106.66	112.92
2	K	758	ALA	CA-C-N	5.08	127.35	120.44
2	K	758	ALA	C-N-CA	5.08	127.35	120.44
3	U	228	HIS	CA-C-N	5.08	131.09	122.65
3	U	228	HIS	C-N-CA	5.08	131.09	122.65
6	X	296	ASN	O-C-N	5.08	128.34	121.83
4	E	134	SER	CA-C-N	5.08	127.05	120.44
4	E	134	SER	C-N-CA	5.08	127.05	120.44
6	G	294	ASP	CA-C-O	-5.08	115.16	120.55
6	G	296	ASN	O-C-N	5.08	128.34	121.83
2	T	758	ALA	CA-C-N	5.08	127.35	120.44
2	T	758	ALA	C-N-CA	5.08	127.35	120.44
4	V	68	GLU	N-CA-C	5.08	116.82	111.28
6	X	903	CYS	O-C-N	-5.08	116.99	123.24
6	G	903	CYS	O-C-N	-5.08	116.99	123.24
3	D	777	LEU	N-CA-C	5.08	116.82	111.28
4	E	42	ARG	N-CA-C	5.08	116.50	111.07
6	G	263	GLU	N-CA-C	-5.08	106.67	112.92
2	K	376	ALA	CA-C-N	5.08	130.00	122.94
2	K	376	ALA	C-N-CA	5.08	130.00	122.94
3	U	611	PRO	O-C-N	5.08	129.04	122.24
2	C	376	ALA	CA-C-N	5.07	129.99	122.94
2	C	376	ALA	C-N-CA	5.07	129.99	122.94
3	D	146	MET	CA-C-O	-5.07	115.04	120.42
4	E	68	GLU	N-CA-C	5.07	116.81	111.28
6	O	759	LEU	CA-C-N	-5.07	116.49	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	759	LEU	C-N-CA	-5.07	116.49	123.14
4	V	758	VAL	O-C-N	-5.07	117.70	123.18
2	C	771	ALA	CA-C-O	5.07	125.92	120.55
2	K	640	HIS	O-C-N	-5.07	116.85	122.07
2	K	1076	GLU	N-CA-C	5.07	116.50	111.07
4	M	134	SER	CA-C-N	5.07	127.03	120.44
4	M	134	SER	C-N-CA	5.07	127.03	120.44
4	M	819	VAL	CA-C-N	5.07	125.22	119.90
4	M	819	VAL	C-N-CA	5.07	125.22	119.90
6	O	70	GLN	N-CA-C	-5.07	106.87	113.16
4	V	772	PHE	CA-C-N	5.07	127.07	120.28
4	V	772	PHE	C-N-CA	5.07	127.07	120.28
3	D	598	VAL	CA-C-N	5.07	127.07	120.28
3	D	598	VAL	C-N-CA	5.07	127.07	120.28
2	C	136	HIS	N-CA-C	-5.07	100.81	108.46
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
3	U	247	GLY	N-CA-C	-5.07	103.14	110.90
2	K	389	SER	O-C-N	-5.07	119.31	123.11
3	U	598	VAL	CA-C-N	5.06	127.07	120.28
3	U	598	VAL	C-N-CA	5.06	127.07	120.28
3	D	28	PRO	N-CA-C	-5.06	108.89	114.92
3	D	322	VAL	CA-C-O	-5.06	115.98	121.19
2	K	246	ARG	N-CA-C	-5.06	100.78	109.24
2	C	85	CYS	O-C-N	5.06	129.00	122.93
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
6	G	432	ASP	CA-C-N	5.06	129.60	122.46
6	G	432	ASP	C-N-CA	5.06	129.60	122.46
2	T	771	ALA	CA-C-O	5.06	125.92	120.55
3	D	756	PHE	CA-C-N	5.06	127.06	120.28
3	D	756	PHE	C-N-CA	5.06	127.06	120.28
2	K	136	HIS	N-CA-C	-5.06	100.82	108.46
2	K	771	ALA	CA-C-O	5.06	125.91	120.55
3	L	756	PHE	CA-C-N	5.06	127.06	120.28
3	L	756	PHE	C-N-CA	5.06	127.06	120.28
6	O	903	CYS	O-C-N	-5.06	117.02	123.24
5	W	86	ASN	CA-C-N	5.06	127.06	120.28
5	W	86	ASN	C-N-CA	5.06	127.06	120.28
3	D	247	GLY	N-CA-C	-5.06	103.16	110.90
6	G	194	PHE	N-CA-C	-5.06	100.03	110.80
4	V	134	SER	CA-C-N	5.06	127.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	134	SER	C-N-CA	5.06	127.01	120.44
4	M	454	ARG	CA-C-O	-5.06	115.49	120.70
2	C	715	LYS	CA-C-N	5.05	127.05	120.28
2	C	715	LYS	C-N-CA	5.05	127.05	120.28
4	M	78	GLN	O-C-N	5.05	127.48	122.12
6	O	296	ASN	O-C-N	5.05	128.30	121.83
2	T	389	SER	O-C-N	-5.05	119.32	123.11
2	T	700	PHE	CA-C-N	5.05	127.05	120.28
2	T	700	PHE	C-N-CA	5.05	127.05	120.28
4	V	146	GLN	CA-C-O	-5.05	115.50	120.70
6	X	70	GLN	N-CA-C	-5.05	106.89	113.16
4	E	490	GLY	CA-C-N	5.05	127.46	120.29
4	E	490	GLY	C-N-CA	5.05	127.46	120.29
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
3	L	322	VAL	CA-C-O	-5.05	115.99	121.19
3	L	650	GLN	CA-C-N	5.05	127.55	120.28
3	L	650	GLN	C-N-CA	5.05	127.55	120.28
7	P	3	LEU	CA-C-N	5.05	127.36	120.54
7	P	3	LEU	C-N-CA	5.05	127.36	120.54
6	G	759	LEU	CA-C-N	-5.05	116.52	123.14
6	G	759	LEU	C-N-CA	-5.05	116.52	123.14
6	G	858	MET	CA-C-N	5.05	127.00	120.44
6	G	858	MET	C-N-CA	5.05	127.00	120.44
2	K	85	CYS	O-C-N	5.05	128.99	122.93
6	O	144	LEU	CA-C-O	5.05	125.75	119.79
2	T	640	HIS	O-C-N	-5.05	116.87	122.07
2	T	924	SER	CA-C-N	5.05	129.27	120.68
2	T	924	SER	C-N-CA	5.05	129.27	120.68
5	W	56	ASP	O-C-N	-5.05	117.32	123.13
6	X	858	MET	CA-C-N	5.05	127.00	120.44
6	X	858	MET	C-N-CA	5.05	127.00	120.44
3	L	247	GLY	N-CA-C	-5.05	103.18	110.90
8	Q	228	ALA	N-CA-C	-5.05	105.78	111.28
3	U	220	THR	N-CA-C	-5.05	102.99	110.46
4	M	316	MET	CA-C-O	5.05	126.78	121.33
6	X	759	LEU	CA-C-N	-5.05	116.53	123.14
6	X	759	LEU	C-N-CA	-5.05	116.53	123.14
7	Y	3	LEU	CA-C-N	5.05	127.35	120.54
7	Y	3	LEU	C-N-CA	5.05	127.35	120.54
2	T	376	ALA	CA-C-N	5.04	129.95	122.94
2	T	376	ALA	C-N-CA	5.04	129.95	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	570	ASP	CA-C-N	5.04	131.18	121.54
3	U	570	ASP	C-N-CA	5.04	131.18	121.54
6	X	194	PHE	N-CA-C	-5.04	100.05	110.80
2	C	640	HIS	O-C-N	-5.04	116.88	122.07
2	T	136	HIS	N-CA-C	-5.04	100.85	108.46
3	U	28	PRO	N-CA-C	-5.04	108.92	114.92
6	X	431	PHE	N-CA-C	5.04	116.81	107.73
6	O	194	PHE	N-CA-C	-5.04	100.06	110.80
2	T	246	ARG	N-CA-C	-5.04	100.82	109.24
2	T	256	VAL	O-C-N	-5.04	117.33	123.02
3	U	756	PHE	CA-C-N	5.04	127.03	120.28
3	U	756	PHE	C-N-CA	5.04	127.03	120.28
2	C	109	LEU	N-CA-C	-5.04	101.48	109.59
6	O	432	ASP	CA-C-N	5.04	129.56	122.46
6	O	432	ASP	C-N-CA	5.04	129.56	122.46
6	O	829	ARG	N-CA-C	-5.04	99.72	109.24
4	E	771	ASN	N-CA-C	-5.04	99.90	108.26
2	K	700	PHE	CA-C-N	5.04	127.03	120.28
2	K	700	PHE	C-N-CA	5.04	127.03	120.28
2	C	803	PRO	N-CA-C	-5.04	102.10	112.47
3	D	650	GLN	CA-C-N	5.04	127.53	120.28
3	D	650	GLN	C-N-CA	5.04	127.53	120.28
5	F	56	ASP	O-C-N	-5.04	117.34	123.13
2	K	388	ASN	O-C-N	5.04	129.12	123.48
2	T	803	PRO	N-CA-C	-5.04	102.10	112.47
4	V	490	GLY	CA-C-N	5.04	127.44	120.29
4	V	490	GLY	C-N-CA	5.04	127.44	120.29
2	C	388	ASN	O-C-N	5.03	129.12	123.48
2	C	664	ALA	O-C-N	5.03	127.89	122.15
2	K	568	ILE	CA-C-N	5.03	130.88	122.73
2	K	568	ILE	C-N-CA	5.03	130.88	122.73
3	L	28	PRO	N-CA-C	-5.03	108.93	114.92
2	T	109	LEU	N-CA-C	-5.03	101.48	109.59
2	T	388	ASN	O-C-N	5.03	129.12	123.48
4	V	78	GLN	O-C-N	5.03	127.46	122.12
2	C	700	PHE	CA-C-N	5.03	127.02	120.28
2	C	700	PHE	C-N-CA	5.03	127.02	120.28
3	L	146	MET	CA-C-O	-5.03	115.09	120.42
4	V	316	MET	CA-C-O	5.03	126.77	121.33
3	D	220	THR	N-CA-C	-5.03	103.02	110.46
2	T	568	ILE	CA-C-N	5.03	130.88	122.73
2	T	568	ILE	C-N-CA	5.03	130.88	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	1076	GLU	N-CA-C	5.03	116.45	111.07
3	U	780	VAL	CA-C-N	5.03	131.15	121.54
3	U	780	VAL	C-N-CA	5.03	131.15	121.54
2	C	746	VAL	CA-C-O	-5.03	115.84	121.17
2	K	803	PRO	N-CA-C	-5.03	102.11	112.47
6	O	431	PHE	N-CA-C	5.03	116.78	107.73
3	U	146	MET	CA-C-O	-5.03	115.09	120.42
4	E	78	GLN	O-C-N	5.03	127.45	122.12
4	E	668	THR	O-C-N	5.03	128.44	122.26
6	G	829	ARG	N-CA-C	-5.03	99.74	109.24
2	K	256	VAL	O-C-N	-5.03	117.34	123.02
2	K	746	VAL	CA-C-O	-5.03	115.84	121.17
3	L	480	ALA	CA-C-O	5.03	125.91	120.43
6	X	127	LEU	O-C-N	-5.03	116.93	122.86
6	X	432	ASP	CA-C-N	5.03	129.55	122.46
6	X	432	ASP	C-N-CA	5.03	129.55	122.46
7	H	3	LEU	CA-C-N	5.03	127.32	120.54
7	H	3	LEU	C-N-CA	5.03	127.32	120.54
3	L	220	THR	N-CA-C	-5.03	103.02	110.46
3	L	570	ASP	CA-C-N	5.03	131.14	121.54
3	L	570	ASP	C-N-CA	5.03	131.14	121.54
6	O	176	LEU	CA-C-O	5.03	126.59	120.31
3	U	650	GLN	CA-C-N	5.03	127.52	120.28
3	U	650	GLN	C-N-CA	5.03	127.52	120.28
3	D	346	LYS	N-CA-C	-5.02	101.68	109.72
3	D	570	ASP	CA-C-N	5.02	131.14	121.54
3	D	570	ASP	C-N-CA	5.02	131.14	121.54
4	E	454	ARG	CA-C-O	-5.02	115.53	120.70
6	O	858	MET	CA-C-N	5.02	126.97	120.44
6	O	858	MET	C-N-CA	5.02	126.97	120.44
2	K	1074	PRO	CA-C-N	5.02	129.22	120.68
2	K	1074	PRO	C-N-CA	5.02	129.22	120.68
4	M	771	ASN	N-CA-C	-5.02	99.92	108.26
3	U	277	VAL	N-CA-C	-5.02	100.56	108.90
4	V	771	ASN	N-CA-C	-5.02	99.92	108.26
3	D	780	VAL	CA-C-N	5.02	131.13	121.54
3	D	780	VAL	C-N-CA	5.02	131.13	121.54
2	K	109	LEU	N-CA-C	-5.02	101.51	109.59
7	P	93	TYR	CA-C-O	-5.02	115.53	120.70
2	C	677	LEU	O-C-N	5.02	127.87	122.15
2	T	1074	PRO	CA-C-N	5.02	129.21	120.68
2	T	1074	PRO	C-N-CA	5.02	129.21	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	246	THR	CA-C-N	5.02	126.23	121.46
3	U	246	THR	C-N-CA	5.02	126.23	121.46
6	X	547	LEU	CA-C-N	5.02	127.01	120.28
6	X	547	LEU	C-N-CA	5.02	127.01	120.28
6	G	176	LEU	CA-C-O	5.02	126.58	120.31
4	M	146	GLN	CA-C-O	-5.02	115.53	120.70
3	U	322	VAL	CA-C-O	-5.02	116.02	121.19
4	V	454	ARG	CA-C-O	-5.02	115.53	120.70
3	D	416	LYS	CA-C-O	5.02	125.89	120.32
4	E	483	GLU	CA-C-N	5.01	131.12	121.54
4	E	483	GLU	C-N-CA	5.01	131.12	121.54
6	G	127	LEU	O-C-N	-5.01	116.94	122.86
2	K	552	ALA	N-CA-C	-5.01	105.70	111.07
3	L	780	VAL	CA-C-N	5.01	131.12	121.54
3	L	780	VAL	C-N-CA	5.01	131.12	121.54
3	U	297	VAL	O-C-N	-5.01	117.63	123.00
4	V	667	ASN	N-CA-C	-5.01	99.62	108.20
6	X	564	ILE	N-CA-C	-5.01	105.82	110.53
3	L	246	THR	CA-C-N	5.01	126.22	121.46
3	L	246	THR	C-N-CA	5.01	126.22	121.46
6	X	294	ASP	CA-C-O	-5.01	115.24	120.55
3	D	297	VAL	O-C-N	-5.01	117.64	123.00
3	D	738	LEU	N-CA-C	-5.01	106.48	112.59
2	K	177	VAL	N-CA-C	-5.01	107.06	113.22
3	U	758	ALA	CA-C-N	5.01	126.99	120.28
3	U	758	ALA	C-N-CA	5.01	126.99	120.28
6	G	431	PHE	N-CA-C	5.01	116.75	107.73
4	M	492	VAL	O-C-N	-5.01	116.67	121.83
6	X	829	ARG	N-CA-C	-5.01	99.77	109.24
2	K	924	SER	CA-C-N	5.01	129.19	120.68
2	K	924	SER	C-N-CA	5.01	129.19	120.68
3	U	48	THR	N-CA-C	-5.01	101.24	109.40
4	E	317	LYS	O-C-N	5.00	129.37	122.46
6	O	127	LEU	O-C-N	-5.00	116.95	122.86
3	U	346	LYS	N-CA-C	-5.00	101.71	109.72
4	V	483	GLU	CA-C-N	5.00	131.10	121.54
4	V	483	GLU	C-N-CA	5.00	131.10	121.54
4	V	127	ALA	O-C-N	-5.00	116.92	122.07
7	Y	37	PRO	CA-C-O	-5.00	111.49	120.60
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
6	G	771	CYS	CA-C-O	5.00	126.38	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	738	LEU	N-CA-C	-5.00	106.49	112.59
5	N	89	MET	CA-C-N	5.00	126.98	120.28
5	N	89	MET	C-N-CA	5.00	126.98	120.28
6	O	564	ILE	N-CA-C	-5.00	105.83	110.53
3	U	480	ALA	CA-C-O	5.00	125.88	120.43
8	Z	130	ASP	N-CA-C	-5.00	106.87	112.87

There are no chirality outliers.

All (75) 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
3	L	44	HIS	Mainchain

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Mol	Chain	Res	Type	Group
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
2	T	317	PHE	Mainchain
2	T	380	CYS	Mainchain
2	T	559	GLY	Mainchain
2	T	63	GLN	Peptide
3	U	119	ASP	Mainchain
3	U	44	HIS	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
6	X	235	CYS	Peptide
6	X	254	GLN	Peptide
6	X	274	ALA	Peptide
6	X	309	LYS	Peptide
6	X	311	HIS	Peptide
6	X	329	LEU	Peptide
6	X	331	THR	Peptide
6	X	348	VAL	Peptide
6	X	471	ASP	Peptide
6	X	499	GLU	Mainchain
6	X	581	PHE	Peptide
6	X	65	PHE	Mainchain

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Mol	Chain	Res	Type	Group
6	X	897	LYS	Peptide
6	X	91	ASP	Mainchain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	636	0	181	1	0
1	B	636	0	181	1	0
1	I	636	0	181	1	0
1	J	636	0	181	1	0
1	R	636	0	181	1	0
1	S	636	0	181	1	0
2	C	3251	0	869	0	0
2	K	4503	0	1194	0	0
2	T	4503	0	1194	0	0
3	D	3211	0	880	2	0
3	L	3211	0	880	2	0
3	U	3211	0	880	2	0
4	E	3294	0	852	1	0
4	M	3294	0	852	1	0
4	V	3294	0	852	1	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
6	X	3250	0	833	0	0
7	H	539	0	142	0	0
7	P	539	0	142	0	0
7	Y	539	0	142	0	0
8	Q	1169	0	303	0	0
8	Z	1169	0	303	0	0
All	All	50958	0	13514	15	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 0.

All (15) 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)
4:M:249:SER:C	4:M:251:LEU:H	2.23	0.47
4:E:249:SER:C	4:E:251:LEU:H	2.23	0.46
4:V:249:SER:C	4:V:251:LEU:H	2.23	0.45
1:R:175:ASN:O	1:R:176:SER:C	2.60	0.44
1:I:175:ASN:O	1:I:176:SER:C	2.60	0.44
1:A:175:ASN:O	1:A:176:SER:C	2.60	0.43
1:B:175:ASN:O	1:B:176:SER:C	2.60	0.43
1:J:175:ASN:O	1:J:176:SER:C	2.60	0.43
1:S:175:ASN:O	1:S:176:SER:C	2.60	0.43
3:D:162:SER:C	3:D:164:ASP:H	2.27	0.42
3:U:162:SER:C	3:U:164:ASP:H	2.27	0.42
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	0.42
3:U:76:ALA:C	3:U: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
1	S	157/181 (87%)	153 (98%)	4 (2%)	0	100	100
2	C	811/1262 (64%)	671 (83%)	97 (12%)	43 (5%)	1	15
2	K	1122/1262 (89%)	972 (87%)	104 (9%)	46 (4%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	T	1122/1262 (89%)	972 (87%)	104 (9%)	46 (4%)	2	18
3	D	801/905 (88%)	700 (87%)	64 (8%)	37 (5%)	2	17
3	L	801/905 (88%)	700 (87%)	64 (8%)	37 (5%)	2	17
3	U	801/905 (88%)	700 (87%)	64 (8%)	37 (5%)	2	17
4	E	820/874 (94%)	749 (91%)	40 (5%)	31 (4%)	2	19
4	M	820/874 (94%)	749 (91%)	40 (5%)	31 (4%)	2	19
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
6	X	809/968 (84%)	658 (81%)	84 (10%)	67 (8%)	0	9
7	H	133/511 (26%)	116 (87%)	16 (12%)	1 (1%)	16	54
7	P	133/511 (26%)	116 (87%)	16 (12%)	1 (1%)	16	54
7	Y	133/511 (26%)	116 (87%)	16 (12%)	1 (1%)	16	54
8	Q	290/308 (94%)	276 (95%)	9 (3%)	5 (2%)	7	36
8	Z	290/308 (94%)	276 (95%)	9 (3%)	5 (2%)	7	36
All	All	12677/15793 (80%)	11138 (88%)	980 (8%)	559 (4%)	3	17

All (559) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	11	ARG
2	C	227	ARG
2	C	526	GLU
2	C	572	ARG
2	C	686	ASN
3	D	6	ASP
3	D	284	ASN
3	D	329	ALA
3	D	336	LYS
3	D	350	SER
3	D	484	SER
3	D	513	ALA
3	D	615	LYS

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Mol	Chain	Res	Type
3	D	791	PRO
3	D	795	GLU
4	E	117	GLU
4	E	280	CYS
4	E	309	ARG
4	E	323	THR
4	E	324	ALA
4	E	391	PRO
4	E	393	LYS
4	E	413	TYR
4	E	448	PHE
4	E	549	ASN
5	F	36	PRO
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
2	K	11	ARG
2	K	227	ARG
2	K	526	GLU
2	K	572	ARG
2	K	686	ASN
2	K	949	VAL

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Mol	Chain	Res	Type
2	K	999	VAL
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

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Mol	Chain	Res	Type
6	O	826	ALA
6	O	939	THR
6	O	959	ILE
8	Q	111	SER
8	Q	231	ARG
2	T	11	ARG
2	T	227	ARG
2	T	526	GLU
2	T	572	ARG
2	T	686	ASN
2	T	949	VAL
2	T	999	VAL
3	U	6	ASP
3	U	284	ASN
3	U	329	ALA
3	U	336	LYS
3	U	350	SER
3	U	484	SER
3	U	513	ALA
3	U	615	LYS
3	U	791	PRO
3	U	795	GLU
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
6	X	55	LEU
6	X	69	LEU
6	X	85	VAL
6	X	90	PRO
6	X	173	ALA
6	X	181	LEU
6	X	197	LEU
6	X	237	ALA
6	X	253	LEU

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Mol	Chain	Res	Type
6	X	275	PRO
6	X	331	THR
6	X	499	GLU
6	X	506	ILE
6	X	508	VAL
6	X	523	THR
6	X	543	ARG
6	X	770	ASN
6	X	785	GLU
6	X	792	LEU
6	X	814	ILE
6	X	826	ALA
6	X	939	THR
6	X	959	ILE
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	630	GLN
2	C	642	VAL
3	D	17	ARG
3	D	59	PRO
3	D	273	ARG
3	D	410	SER
3	D	426	PRO
3	D	630	PHE
3	D	739	ASP
4	E	263	HIS
4	E	310	THR
4	E	313	LYS
4	E	373	ASP
4	E	442	PHE
4	E	484	HIS
4	E	551	LEU
4	E	739	THR
4	E	741	GLU

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Mol	Chain	Res	Type
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
2	K	137	TYR
2	K	226	ASP
2	K	425	ARG
2	K	441	LYS
2	K	498	ALA
2	K	538	SER
2	K	546	SER
2	K	621	VAL
2	K	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
4	M	739	THR
4	M	741	GLU
6	O	83	GLU
6	O	103	ASP
6	O	174	PRO
6	O	307	GLU
6	O	554	ALA
6	O	558	ALA
6	O	879	ASP
2	T	137	TYR

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Mol	Chain	Res	Type
2	T	226	ASP
2	T	425	ARG
2	T	441	LYS
2	T	498	ALA
2	T	538	SER
2	T	546	SER
2	T	621	VAL
2	T	630	GLN
2	T	642	VAL
2	T	1178	ARG
3	U	17	ARG
3	U	59	PRO
3	U	273	ARG
3	U	410	SER
3	U	426	PRO
3	U	630	PHE
3	U	739	ASP
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
6	X	83	GLU
6	X	103	ASP
6	X	174	PRO
6	X	307	GLU
6	X	554	ALA
6	X	558	ALA
6	X	879	ASP
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

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

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Mol	Chain	Res	Type
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
6	O	528	SER
6	O	817	ASN
6	O	904	GLY
7	P	45	GLN
2	T	205	ASP
2	T	337	LYS
2	T	345	ASP
2	T	348	SER
2	T	349	SER
2	T	387	GLU
2	T	469	ALA
2	T	594	PRO
2	T	619	LYS
2	T	624	SER
2	T	627	ALA
2	T	790	PRO
3	U	140	GLY
3	U	260	THR
3	U	272	GLU
3	U	571	ASN
3	U	601	ARG

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Mol	Chain	Res	Type
3	U	662	VAL
3	U	694	GLN
3	U	735	GLN
4	V	256	GLU
4	V	353	SER
4	V	522	ASN
4	V	569	PRO
5	W	55	THR
6	X	18	SER
6	X	22	SER
6	X	194	PHE
6	X	257	SER
6	X	259	ALA
6	X	308	LEU
6	X	318	LEU
6	X	487	PRO
6	X	501	LYS
6	X	528	SER
6	X	817	ASN
6	X	904	GLY
7	Y	45	GLN
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	577	ASP
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	372	GLU
6	G	446	PHE
6	G	537	GLU
6	G	583	ALA

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Mol	Chain	Res	Type
6	G	876	ASP
6	G	916	PHE
2	K	133	GLY
2	K	193	THR
2	K	271	LYS
2	K	423	ARG
2	K	452	ASN
2	K	731	GLY
3	L	89	LEU
3	L	318	LYS
3	L	577	ASP
3	L	734	LEU
3	L	740	ALA
3	L	787	SER
3	L	788	LEU
4	M	40	ASN
4	M	251	LEU
4	M	464	PRO
6	O	332	PRO
6	O	446	PHE
6	O	537	GLU
6	O	583	ALA
6	O	876	ASP
6	O	916	PHE
8	Q	113	ASP
2	T	133	GLY
2	T	193	THR
2	T	271	LYS
2	T	423	ARG
2	T	452	ASN
2	T	731	GLY
3	U	89	LEU
3	U	318	LYS
3	U	577	ASP
3	U	734	LEU
3	U	740	ALA
3	U	787	SER
3	U	788	LEU
4	V	40	ASN
4	V	251	LEU
4	V	464	PRO
6	X	332	PRO

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Mol	Chain	Res	Type
6	X	446	PHE
6	X	537	GLU
6	X	583	ALA
6	X	876	ASP
6	X	916	PHE
8	Z	113	ASP
2	C	470	ASP
2	C	698	LYS
2	C	793	LYS
2	C	812	THR
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	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
6	O	32	LYS
6	O	99	ILE
6	O	262	TYR
6	O	330	SER
6	O	372	GLU
6	O	794	PRO
6	O	894	THR
6	O	898	ALA
6	O	900	SER
6	O	962	SER
2	T	470	ASP
2	T	698	LYS
2	T	793	LYS

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Mol	Chain	Res	Type
2	T	812	THR
4	V	221	HIS
4	V	311	LEU
4	V	410	GLY
6	X	32	LYS
6	X	99	ILE
6	X	262	TYR
6	X	330	SER
6	X	372	GLU
6	X	794	PRO
6	X	894	THR
6	X	898	ALA
6	X	900	SER
6	X	962	SER
2	C	442	ASN
2	C	781	GLU
3	D	391	ALA
6	G	21	PRO
6	G	102	CYS
6	G	230	LEU
6	G	503	GLU
2	K	442	ASN
2	K	781	GLU
3	L	391	ALA
6	O	21	PRO
6	O	102	CYS
6	O	230	LEU
6	O	503	GLU
2	T	442	ASN
2	T	781	GLU
3	U	391	ALA
6	X	21	PRO
6	X	102	CYS
6	X	230	LEU
6	X	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
3	U	790	ASP

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Mol	Chain	Res	Type
6	X	216	VAL
6	X	238	ASN
2	C	780	PRO
2	C	799	ALA
3	D	355	PRO
4	E	278	PRO
6	G	540	PRO
2	K	780	PRO
2	K	799	ALA
3	L	355	PRO
6	O	540	PRO
8	Q	213	SER
2	T	780	PRO
2	T	799	ALA
3	U	355	PRO
6	X	540	PRO
8	Z	213	SER
3	D	762	LEU
6	G	531	ARG
3	L	762	LEU
4	M	278	PRO
6	O	531	ARG
3	U	762	LEU
4	V	278	PRO
6	X	531	ARG
3	D	200	PRO
4	E	556	PRO
6	G	317	VAL
4	M	556	PRO
6	O	317	VAL
4	V	556	PRO
6	X	317	VAL
2	C	247	GLY
2	C	488	ILE
2	K	247	GLY
2	K	488	ILE
3	L	200	PRO
8	Q	45	SER
2	T	247	GLY
2	T	488	ILE
3	U	200	PRO
8	Z	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.

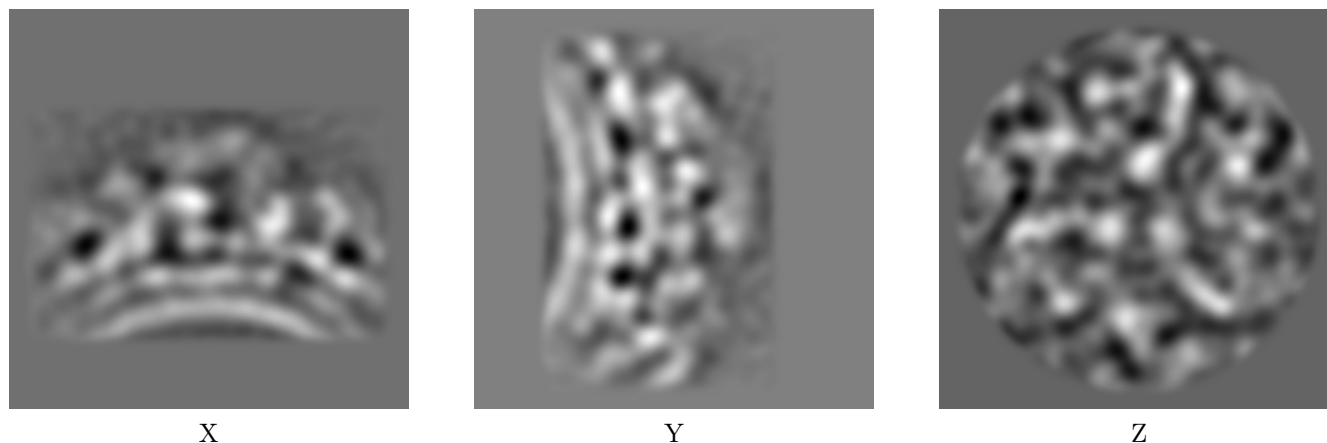
5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Tomogram visualisation [i](#)

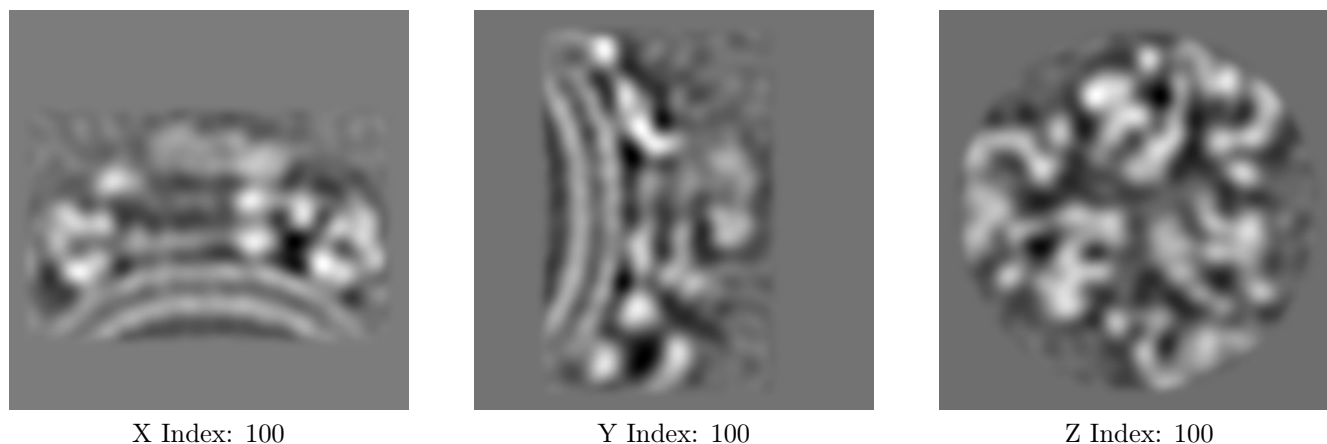
This section contains visualisations of the EMDB entry EMD-2986. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

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.

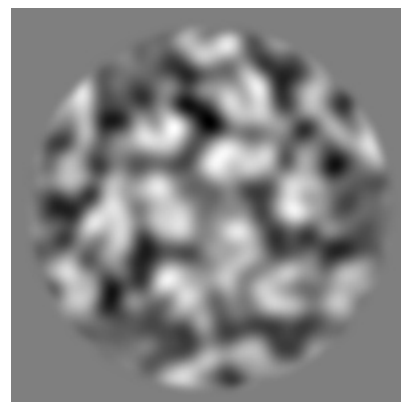
6.3 Largest variance slices [i](#)



X Index: 88



Y Index: 134



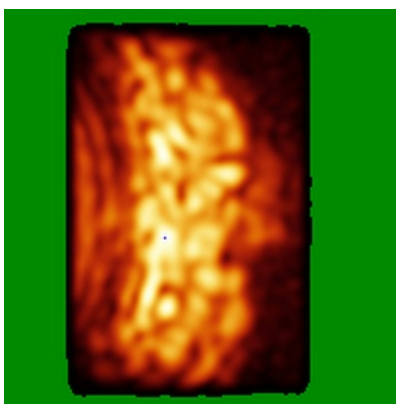
Z Index: 83

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.

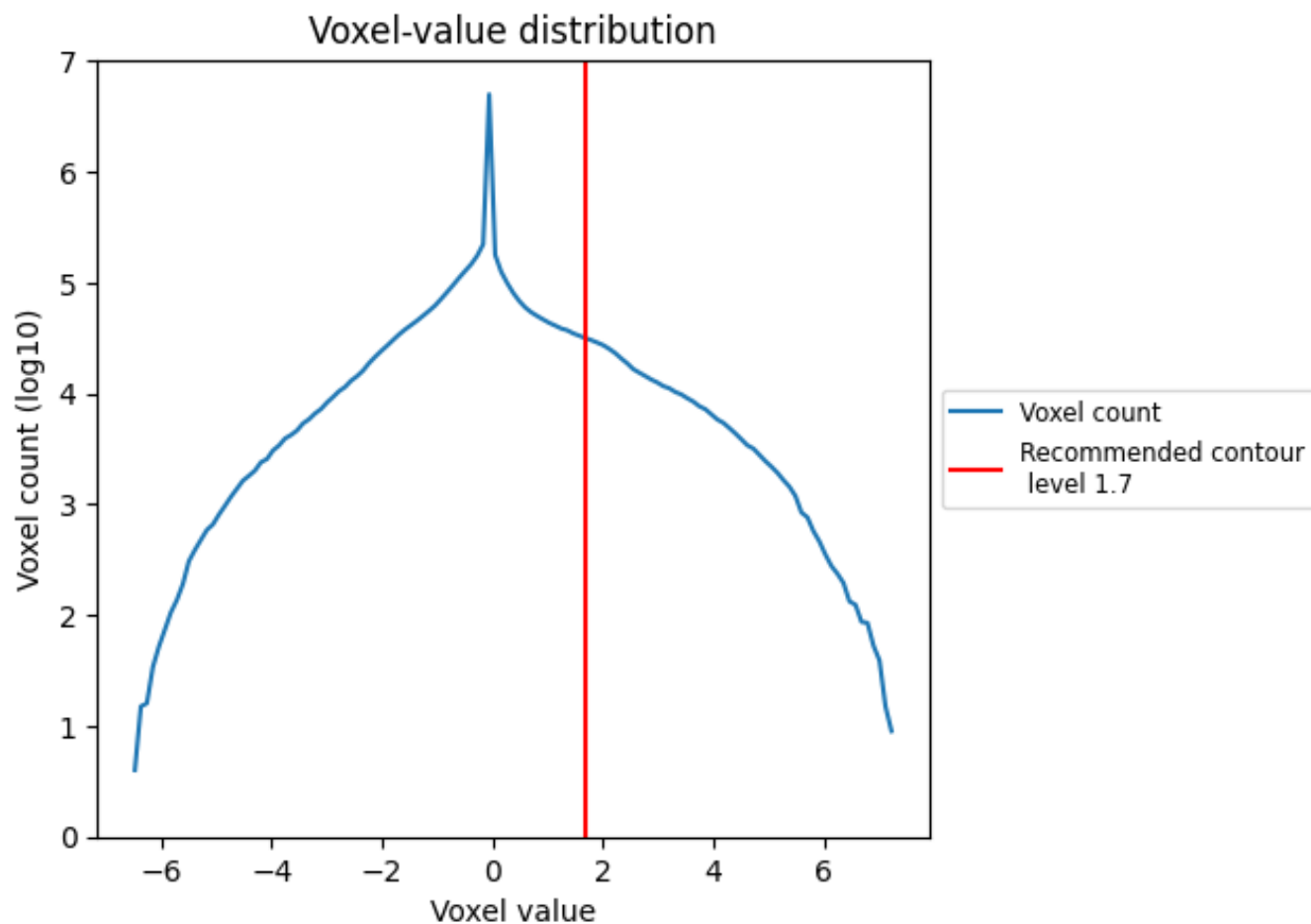
6.5 Mask visualisation [i](#)

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.

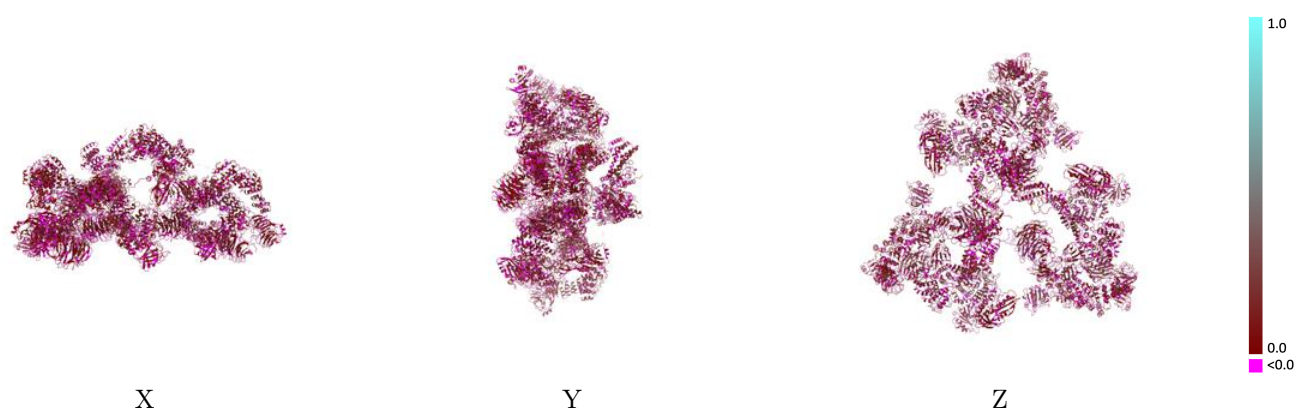
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-2986 and PDB model 5A1V. Per-residue inclusion information can be found in section 3 on page 11.

8.1 Map-model overlay [i](#)

This section was not generated.

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

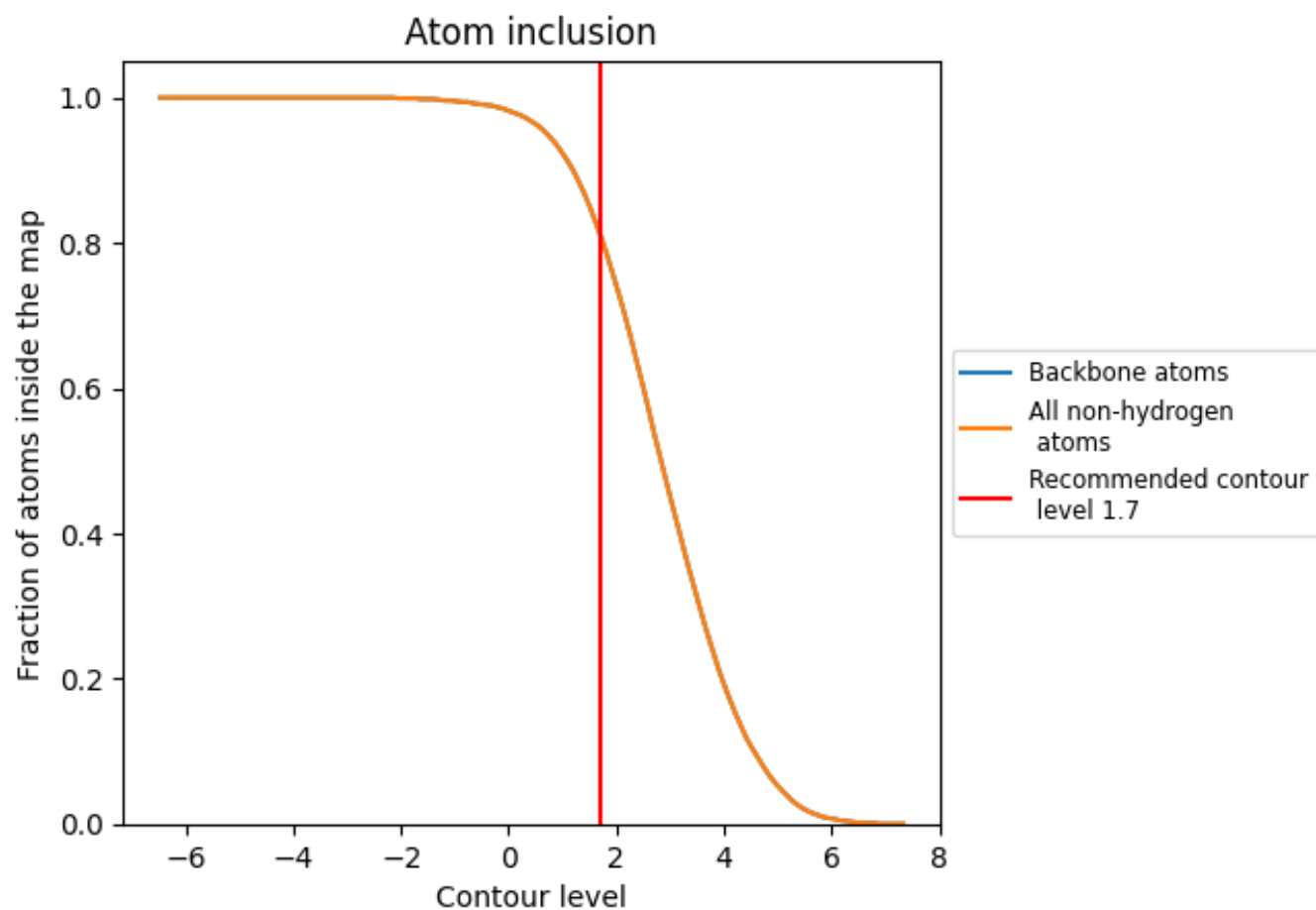


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 81% of all backbone atoms, 81% 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 (1.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8120	 0.0670
A	 0.8070	 0.0600
B	 0.4720	 0.0520
C	 0.7380	 0.0600
D	 0.7730	 0.0660
E	 0.8630	 0.0720
F	 0.8090	 0.0620
G	 0.7370	 0.0640
H	 0.6100	 0.0410
I	 0.8000	 0.0640
J	 0.7200	 0.0490
K	 0.8400	 0.0710
L	 0.8260	 0.0710
M	 0.8760	 0.0760
N	 0.8560	 0.0630
O	 0.8070	 0.0720
P	 0.8350	 0.0450
Q	 0.6220	 0.0490
R	 0.8370	 0.0600
S	 0.7340	 0.0470
T	 0.8460	 0.0730
U	 0.8700	 0.0710
V	 0.9000	 0.0750
W	 0.9240	 0.0600
X	 0.8390	 0.0700
Y	 0.8830	 0.0610
Z	 0.6970	 0.0620

