



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 10:39 AM UTC

PDB ID : 5NZU / pdb_00005nzu
EMDB ID : EMD-3723
Title : The structure of the COPI coat linkage II
Authors : Dodonova, S.O.; Aderhold, P.; Kopp, J.; Ganeva, I.; Roehling, S.; Hagen, W.J.H.; Sinning, I.; Wieland, F.; Briggs, J.A.G.
Deposited on : 2017-05-15
Resolution : 15.00 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

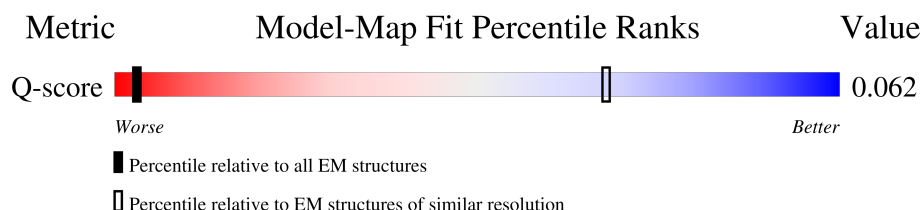
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

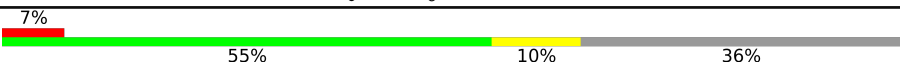
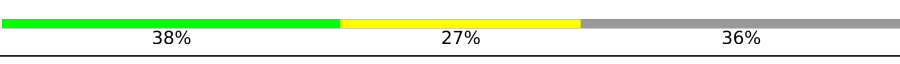
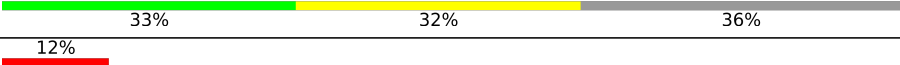
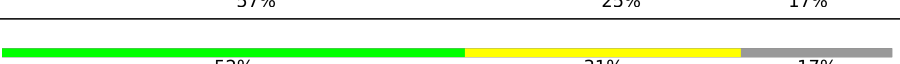
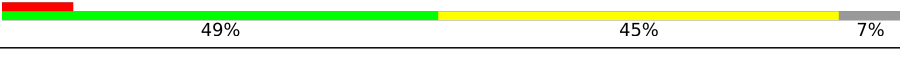
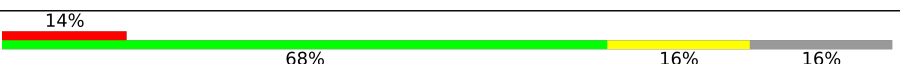
The reported resolution of this entry is 15.00 Å.

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	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Q-score	25397	37 (14.50 - 15.50)

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

Mol	Chain	Length	Quality of chain
1	1-A	1262	 7% 55% 10% 36%
1	2-A	1262	 38% 27% 36%
1	3-A	1262	 33% 32% 36%
2	1-B	968	 12% 57% 25% 17%
2	2-B	968	 52% 31% 17%
2	3-B	968	 43% 39% 17%
3	1-C	905	 8% 49% 45% 7%
3	2-C	905	 47% 46% 7%
3	3-C	905	 53% 41% 7%
4	1-D	511	 14% 68% 16% 16%

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Mol	Chain	Length	Quality of chain
4	2-D	511	
4	3-D	511	
5	1-F	181	
5	1-M	181	
5	1-R	181	
5	2-F	181	
5	2-M	181	
5	2-R	181	
5	3-F	181	
5	3-M	181	
5	3-R	181	
6	1-G	874	
6	1-K	874	
6	2-G	874	
6	2-K	874	
6	3-G	874	
6	3-K	874	
7	1-L	177	
7	1-Z	177	
7	2-L	177	
7	2-Z	177	
7	3-L	177	
7	3-Z	177	

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 59913 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Coatomer subunit alpha.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	1-A	813	Total	C	N	O	0	0
			3251	1626	813	812		
1	2-A	813	Total	C	N	O	0	0
			3251	1626	813	812		
1	3-A	813	Total	C	N	O	0	0
			3251	1626	813	812		

There are 38 discrepancies between the modelled and reference sequences:

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

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1249	GLY	-	expression tag	UNP Q8CIE6
A	1250	SER	-	expression tag	UNP Q8CIE6
A	1251	GLY	-	expression tag	UNP Q8CIE6
A	1252	GLY	-	expression tag	UNP Q8CIE6
A	1253	SER	-	expression tag	UNP Q8CIE6
A	1254	ALA	-	expression tag	UNP Q8CIE6
A	1255	TRP	-	expression tag	UNP Q8CIE6
A	1256	SER	-	expression tag	UNP Q8CIE6
A	1257	HIS	-	expression tag	UNP Q8CIE6
A	1258	PRO	-	expression tag	UNP Q8CIE6
A	1259	GLN	-	expression tag	UNP Q8CIE6
A	1260	PHE	-	expression tag	UNP Q8CIE6
A	1261	GLU	-	expression tag	UNP Q8CIE6
A	1262	LYS	-	expression tag	UNP Q8CIE6

- Molecule 2 is a protein called Coatomer subunit beta.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	1-B	800	Total	C	N	O	0	0
			3198	1600	800	798		
2	2-B	800	Total	C	N	O	0	0
			3198	1600	800	798		
2	3-B	800	Total	C	N	O	0	0
			3198	1600	800	798		

There are 15 discrepancies between the modelled and reference sequences:

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

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Chain	Residue	Modelled	Actual	Comment	Reference
B	15	HIS	-	expression tag	UNP Q9JIF7

- Molecule 3 is a protein called Coatomer subunit beta'.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	1-C	843	Total	C	N	O	0	0
			3371	1686	843	842		
3	2-C	843	Total	C	N	O	0	0
			3371	1686	843	842		
3	3-C	843	Total	C	N	O	0	0
			3371	1686	843	842		

- Molecule 4 is a protein called Coatomer subunit delta.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	1-D	427	Total	C	N	O	0	0
			1707	854	427	426		
4	2-D	427	Total	C	N	O	0	0
			1707	854	427	426		
4	3-D	427	Total	C	N	O	0	0
			1707	854	427	426		

- Molecule 5 is a protein called ADP-ribosylation factor 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	1-F	159	Total	C	N	O	0	0
			635	318	159	158		
5	2-F	159	Total	C	N	O	0	0
			635	318	159	158		
5	3-F	159	Total	C	N	O	0	0
			635	318	159	158		
5	1-R	159	Total	C	N	O	0	0
			635	318	159	158		
5	2-R	159	Total	C	N	O	0	0
			635	318	159	158		
5	3-R	159	Total	C	N	O	0	0
			635	318	159	158		
5	1-M	159	Total	C	N	O	0	0
			635	318	159	158		
5	2-M	159	Total	C	N	O	0	0
			635	318	159	158		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	3-M	159	Total	C	N	O	0	0
			635	318	159	158		

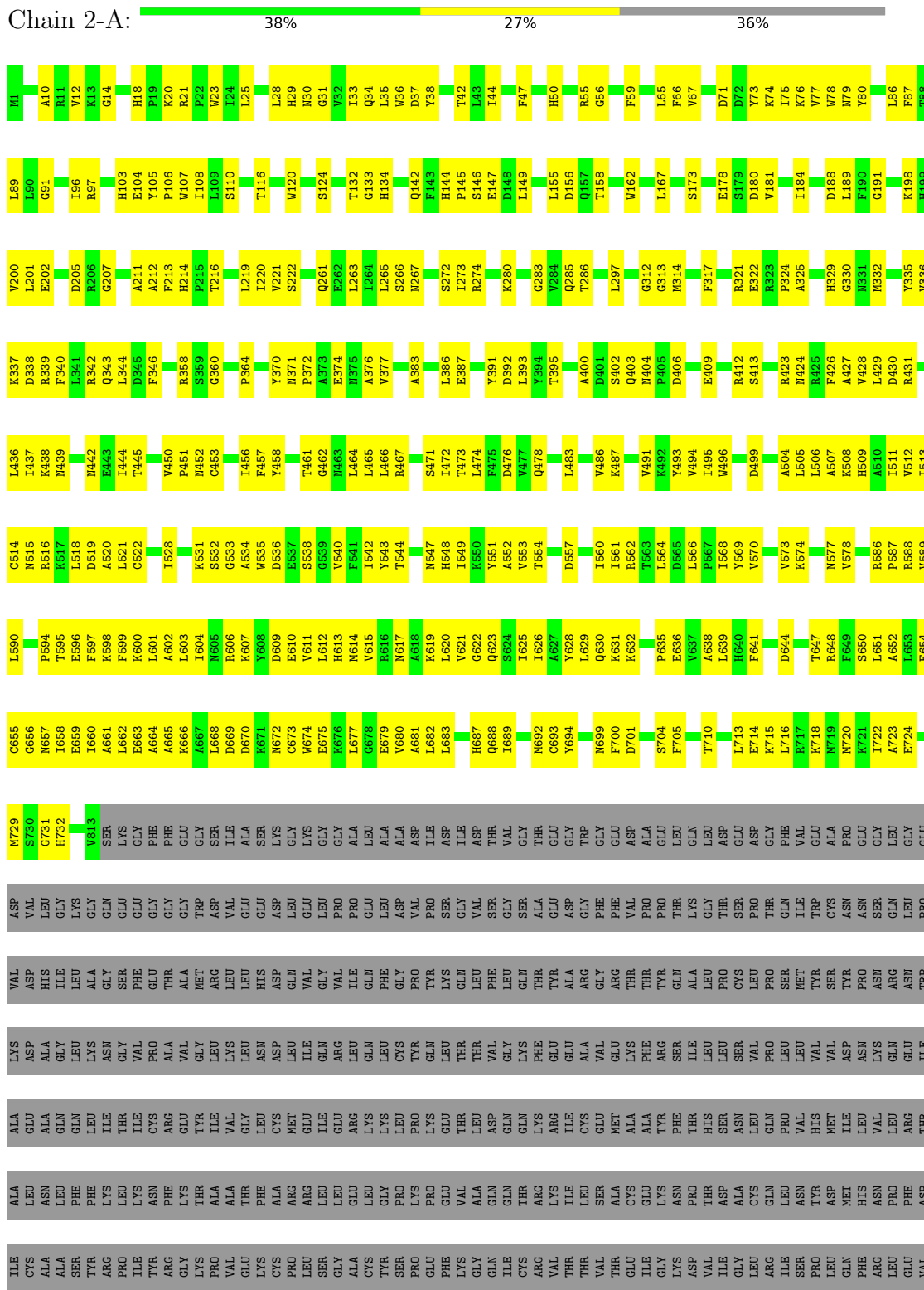
- Molecule 6 is a protein called Coatomer subunit gamma-1.

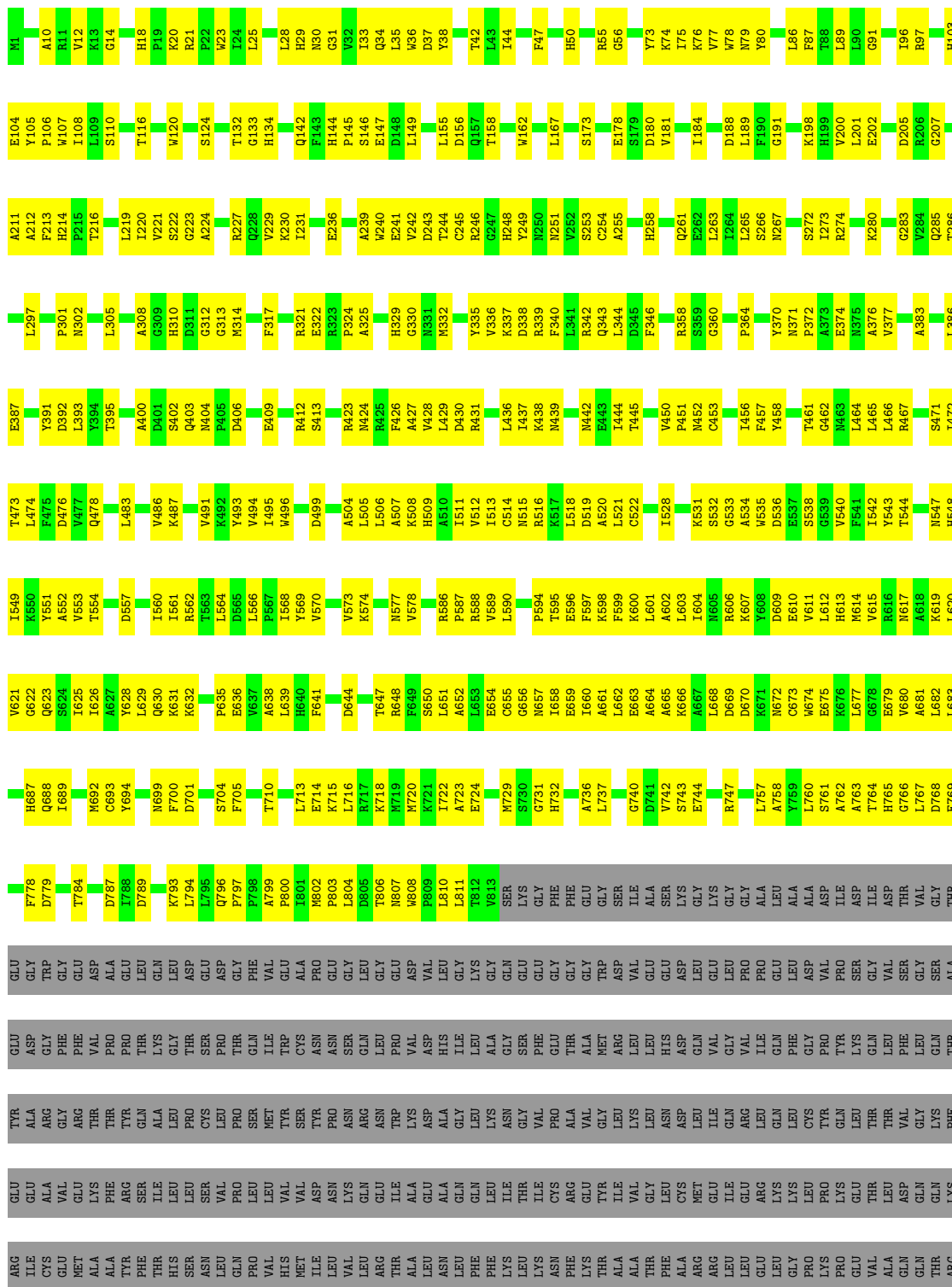
Mol	Chain	Residues	Atoms				AltConf	Trace
6	1-G	798	Total	C	N	O	0	0
			3190	1596	798	796		
6	2-G	798	Total	C	N	O	0	0
			3190	1596	798	796		
6	3-G	798	Total	C	N	O	0	0
			3190	1596	798	796		
6	1-K	560	Total	C	N	O	0	0
			2239	1120	560	559		
6	2-K	560	Total	C	N	O	0	0
			2239	1120	560	559		
6	3-K	560	Total	C	N	O	0	0
			2239	1120	560	559		

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

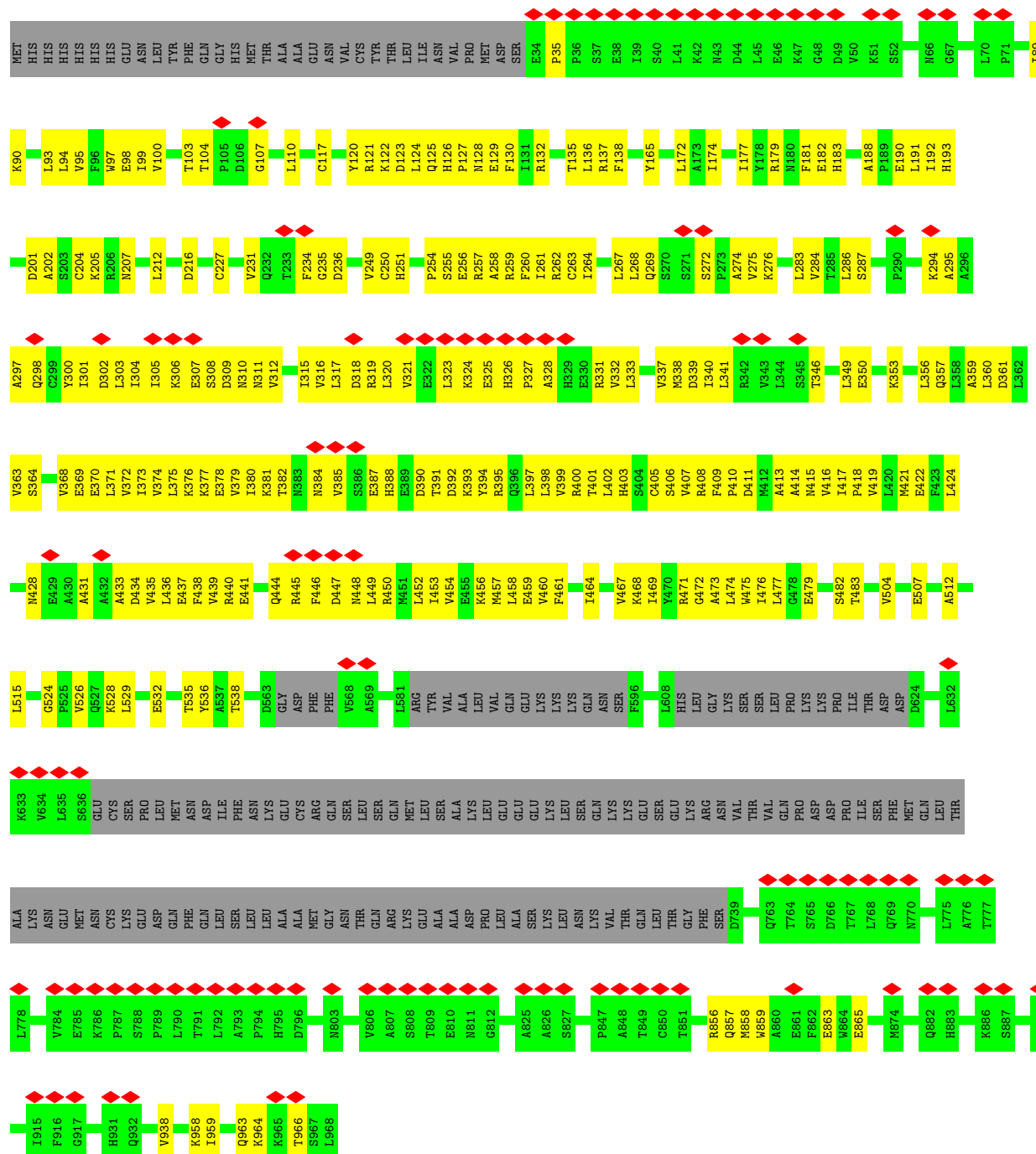
Mol	Chain	Residues	Atoms				AltConf	Trace
7	1-Z	139	Total	C	N	O	0	0
			555	278	139	138		
7	2-Z	139	Total	C	N	O	0	0
			555	278	139	138		
7	3-Z	139	Total	C	N	O	0	0
			555	278	139	138		
7	1-L	139	Total	C	N	O	0	0
			555	278	139	138		
7	2-L	139	Total	C	N	O	0	0
			555	278	139	138		
7	3-L	139	Total	C	N	O	0	0
			555	278	139	138		

- Molecule 1: Coatomer subunit alpha





- Molecule 2: Coatomer subunit beta



- Molecule 2: Coatomer subunit beta

Chain 2-B:  52% 31% 17%

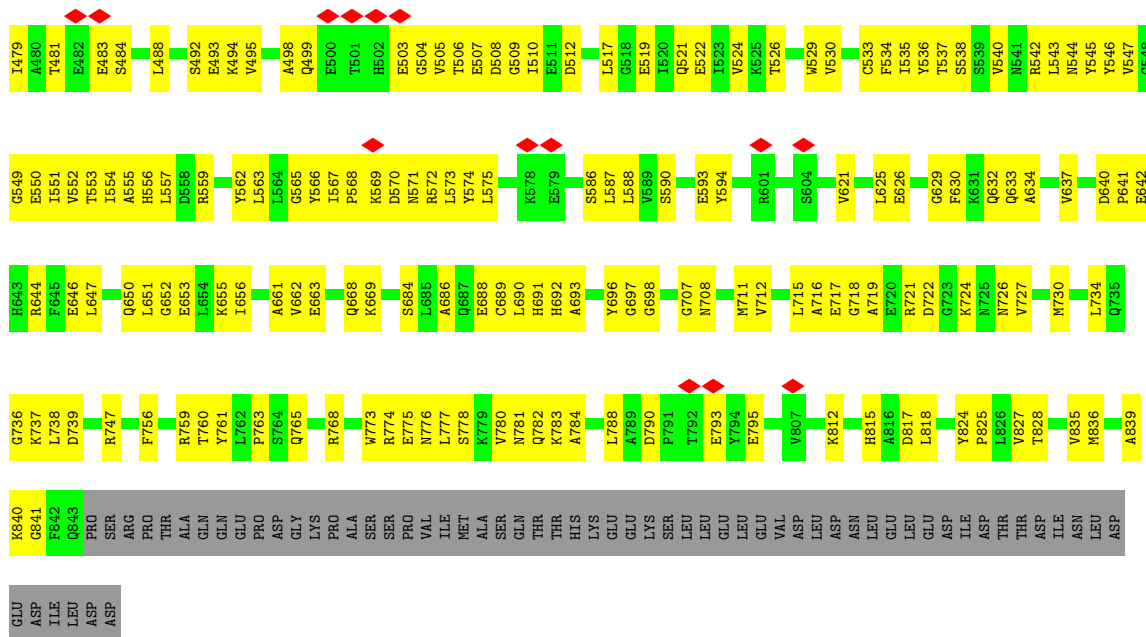
MET	HIS	HIS	HIS	HIS	HIS	HIS	HIS	GLU	ASN	LEU	TYR	PHE	GLN	GLY	HIS	MET	THR	THR	ALA	GLU	ASN	VAL	CYS	TYR	THR	LEU	ILE	ASN	VAL	PRO	MET	ASP	SER	E34	T76	T77	T78	R79	T89	K90	L93	L94	V95	F96	V97	E98	V99	V100	T103	T104	G107	L110	C117

• Molecule 2: Coatomer subunit beta

Chain 3-B:  43% 39% 17%

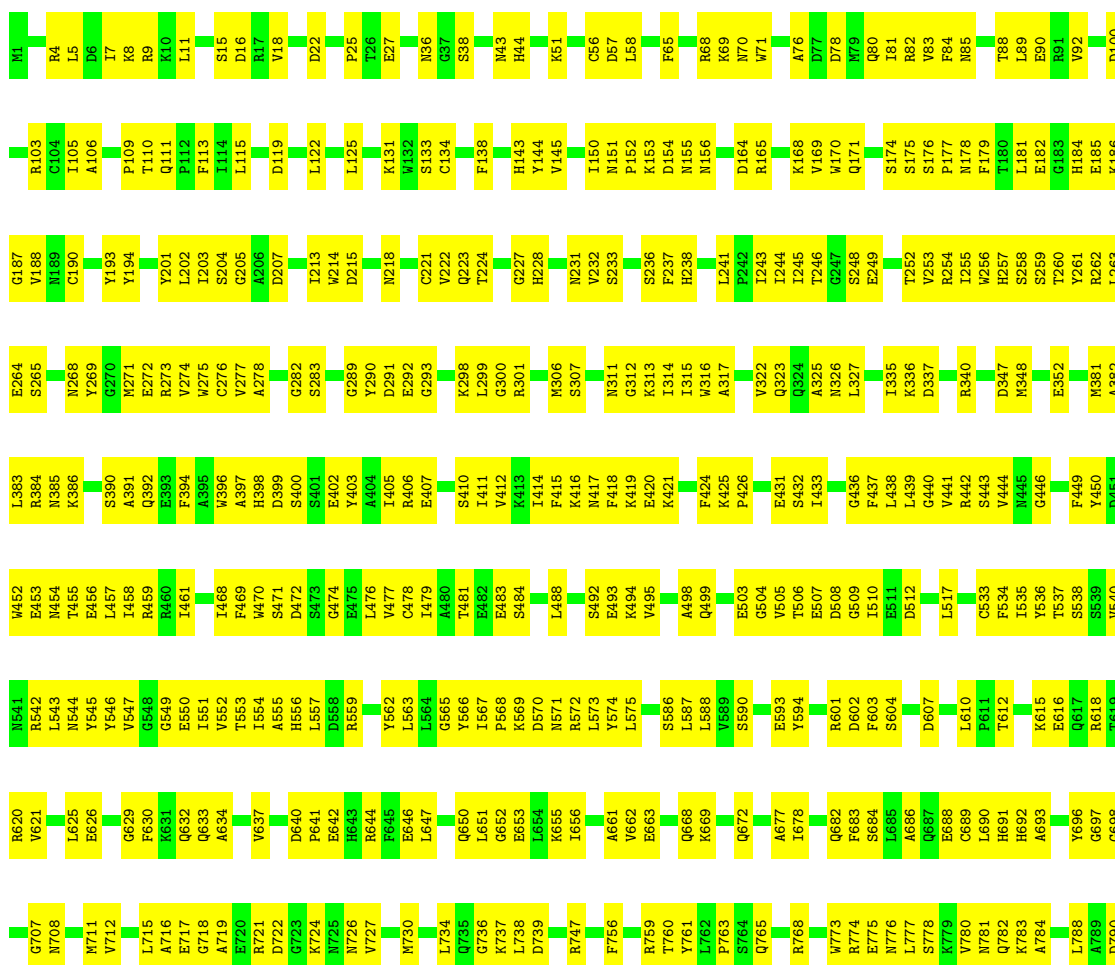
MET	HIS	HIS	HIS	HIS	HIS	HIS	GLU	ASN	LEU	TYR	PHE	GLN	GLY	HIS	HIS	MET	THR	ALA	ALA	GLU	ASN	VAL	CYS	TYR	THR	LEU	ILE	ASN	VAL	PRO	MET	ASP	ES4	P35	ES8	G48	D49	S52	K53	T54	E55	A56	L57	V60	I61	I62	M63	M64	G67	L73	L74	M75	T76					
I77	I78	R79		I89	K90		L93	L94	V95	F96	V97	E98	I99	V100		T103	T104		G107		L110		G117		Y120	R121	K122	D123	L124	Q125	H126	P127	M128	F129	F130	I131	R132		T135	L136	R137	F138	L139	C140		A145		L148	E149	P150	L151	M152		I155		H163	S164	Y165
L172	A173	I174		I177	Y178	R179	N180	F181	E182	H183		A188	P189	E190	L191	I192	H193		D201	A202	S203	C204	K205	R206	N207		L212		D216		C227	V231	F234	G235	D236	V249	C250	H251		P254	S255	E256	R257	A258	R259	F260	L261	R262	C263		L264		L267	Q268		S272		
P273	A274	V275	K276	L283	V284	T285	L286	S287			K294	A295	A296	A297	Q298	C299	Y300	I301	D302	L303	I304	L305	K306	E307	S308	D309	N310	N311	V312		I315	V316	L317	D318	R319	L320	V321	E322	L323	K324	E325	H326	P327		L341		T346	L349	E350		K353		L356	Q357	L358	A359	L360	D361

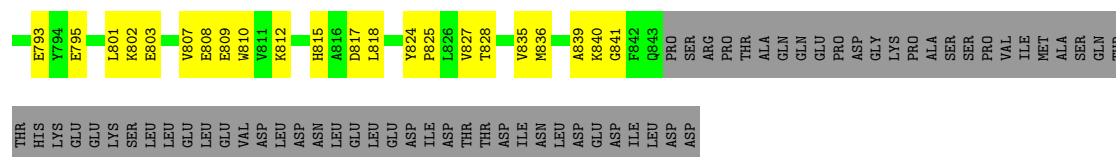




• Molecule 3: Coatomer subunit beta'

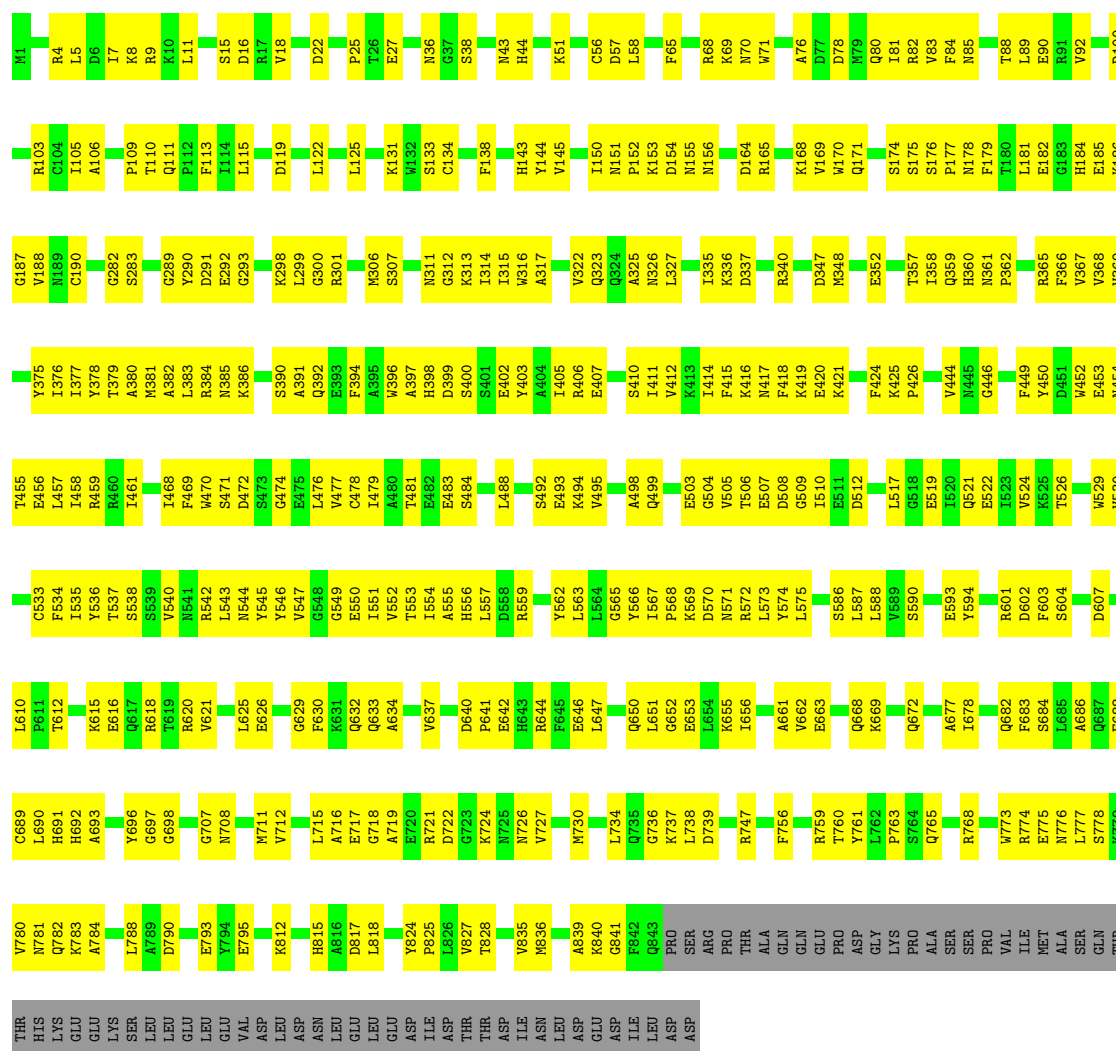
Chain 2-C:





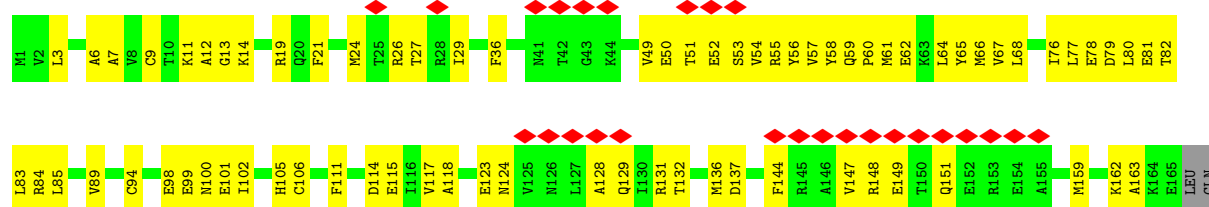
• Molecule 3: Coatomer subunit beta'

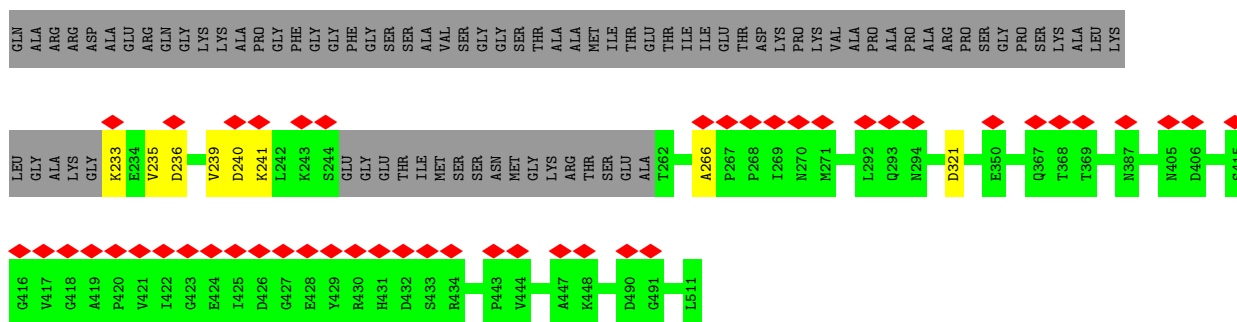
Chain 3-C: 53% 41% 7%



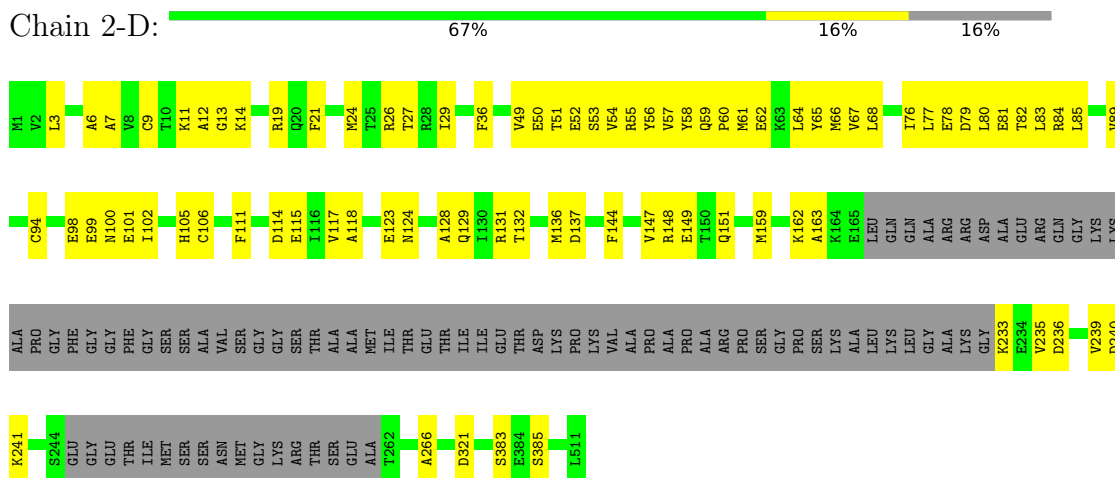
• Molecule 4: Coatomer subunit delta

Chain 1-D: 14% 68% 16% 16%

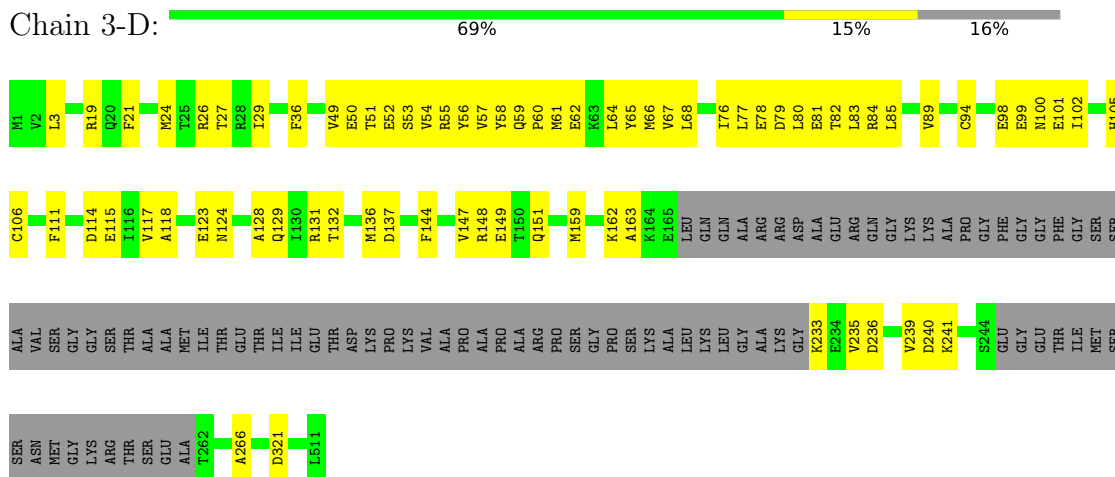




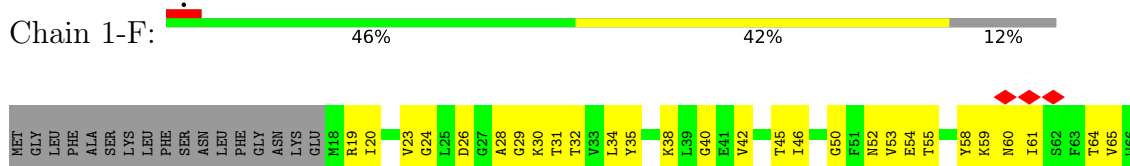
- Molecule 4: Coatomer subunit delta

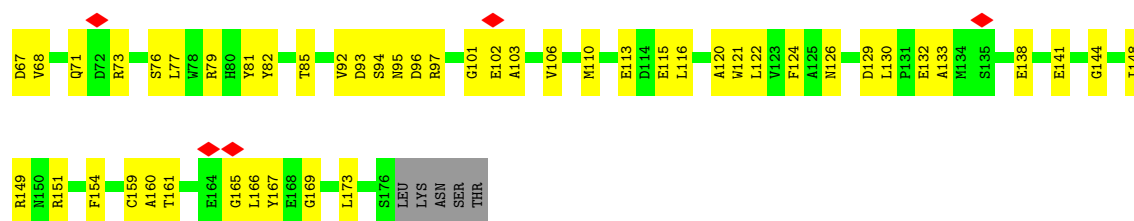


- Molecule 4: Coatomer subunit delta

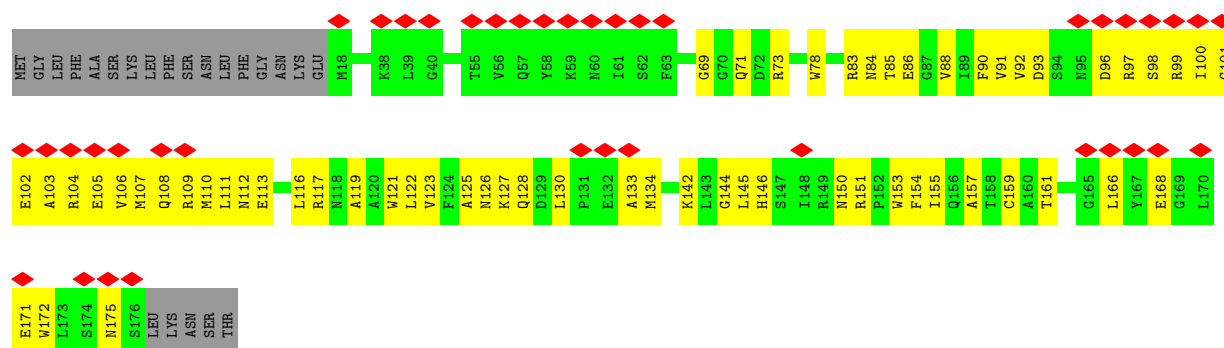


- Molecule 5: ADP-ribosylation factor 1

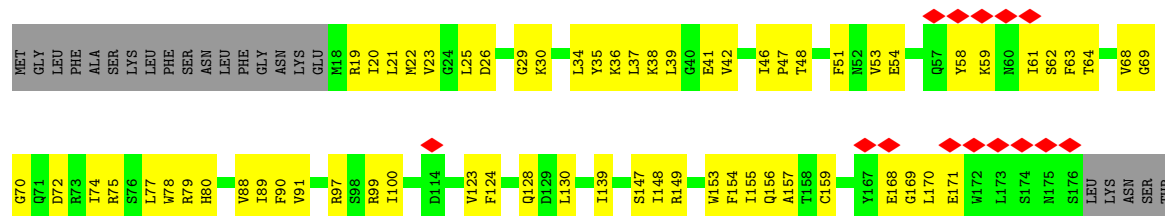




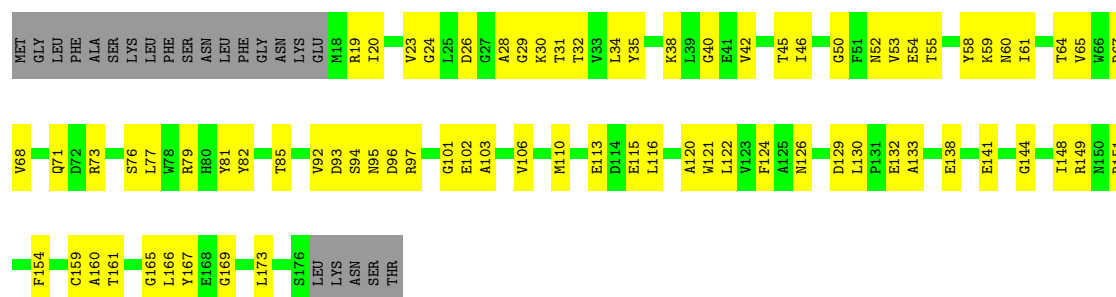
• Molecule 5: ADP-ribosylation factor 1



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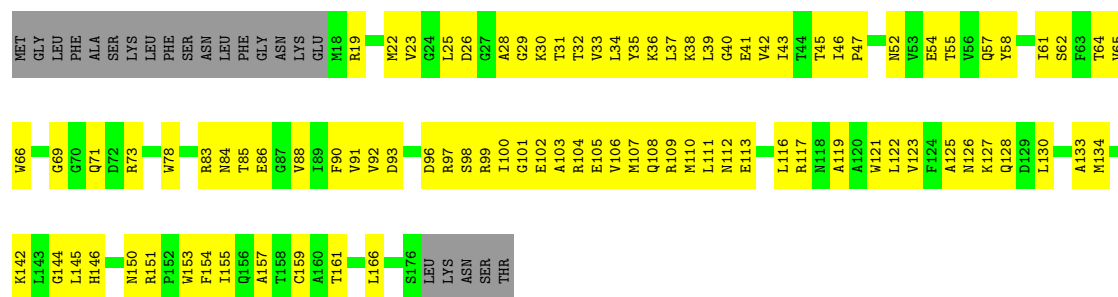


• Molecule 5: ADP-ribosylation factor 1

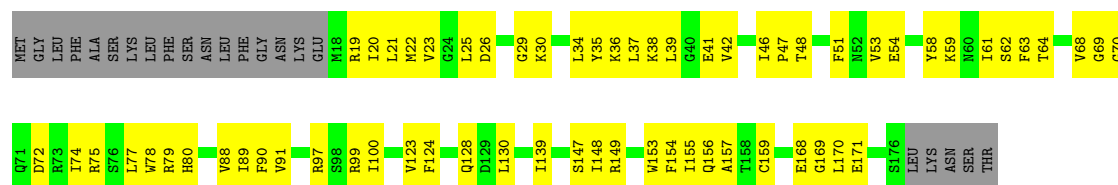


• Molecule 5: ADP-ribosylation factor 1

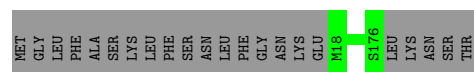




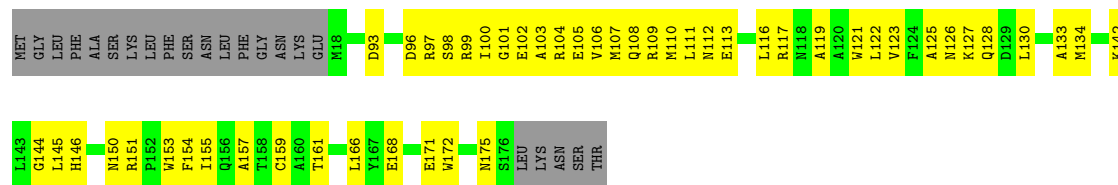
- Molecule 5: ADP-ribosylation factor 1



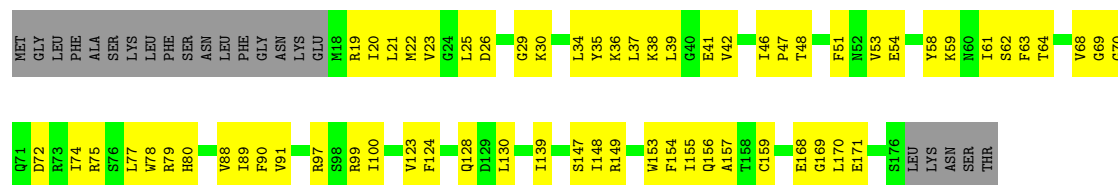
- Molecule 5: ADP-ribosylation factor 1



- Molecule 5: ADP-ribosylation factor 1

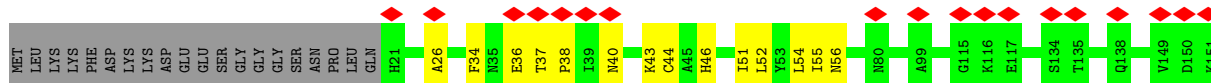


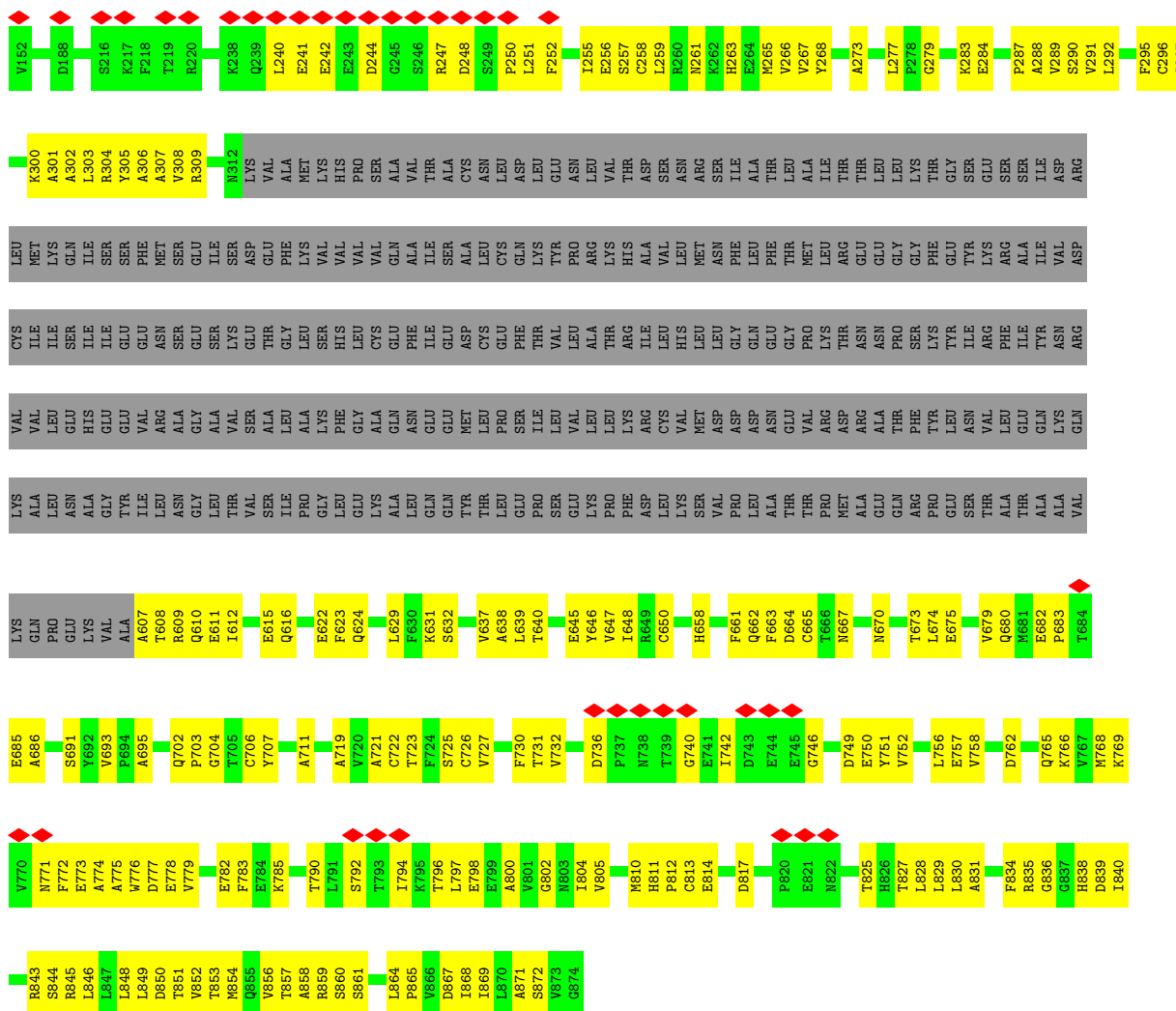
- Molecule 5: ADP-ribosylation factor 1



- Molecule 6: Coatomer subunit gamma-1

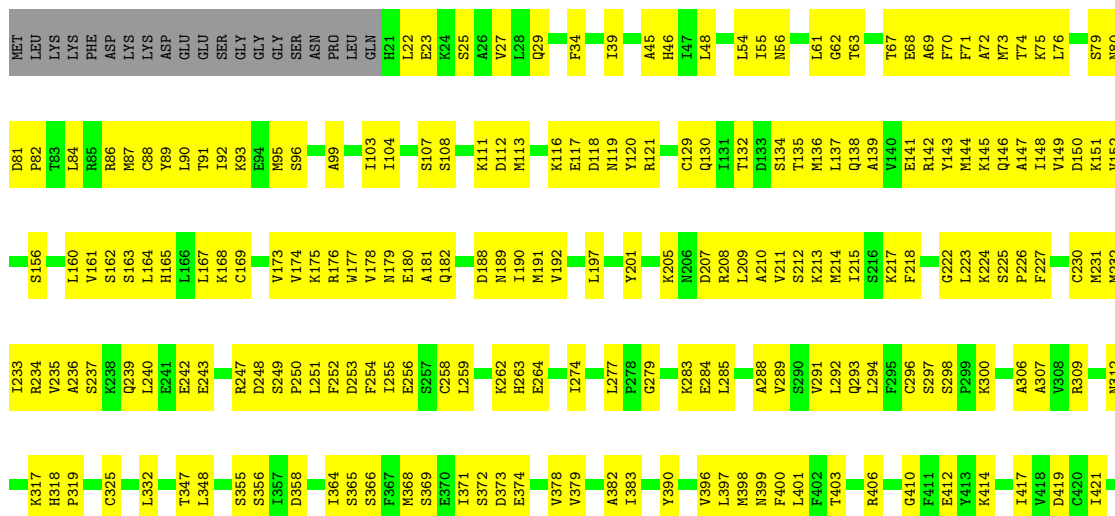


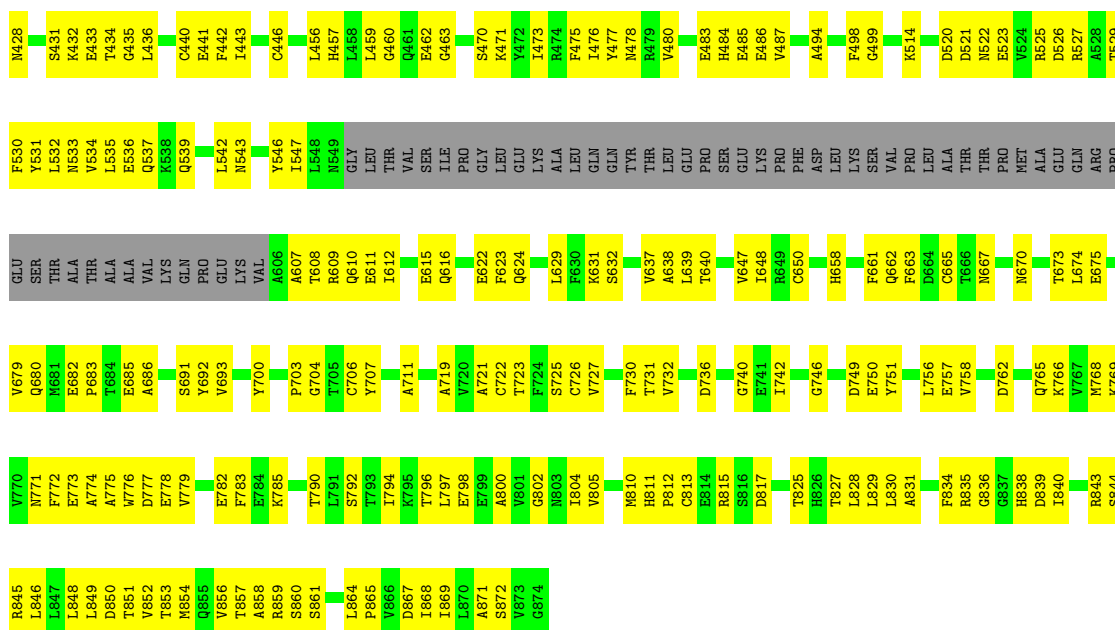




• Molecule 6: Coatomer subunit gamma-1

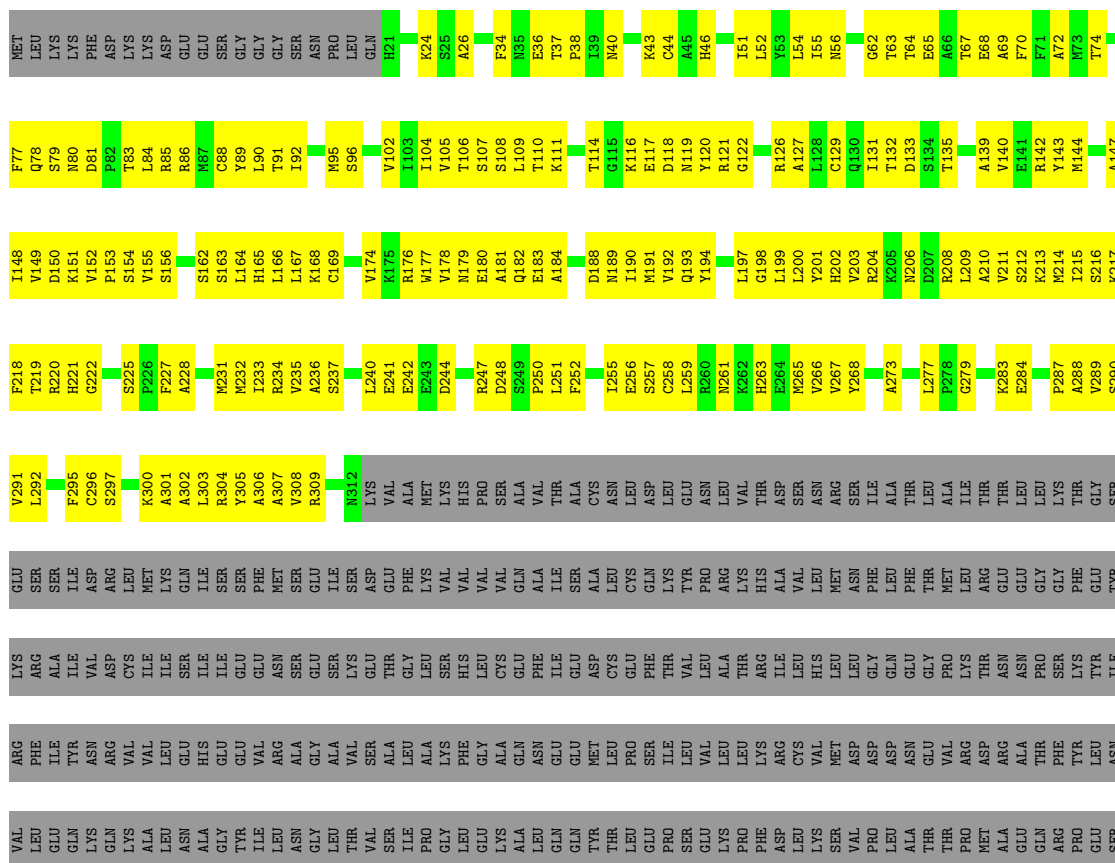
Chain 2-G: 46% 45% 9%





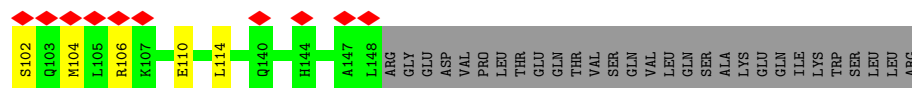
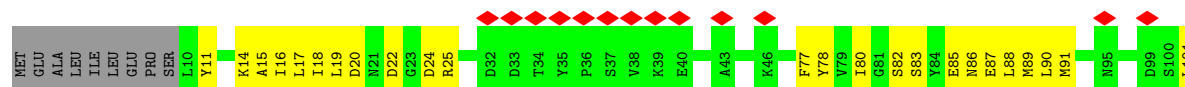
● Molecule 6: Coatomer subunit gamma-1

Chain 2-K: 27% 37% 36%

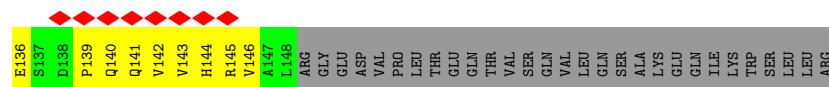
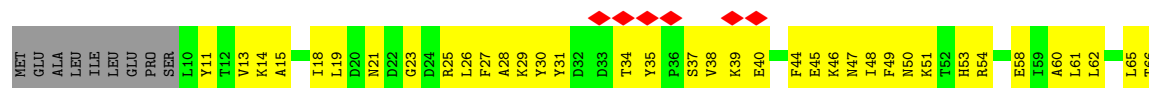




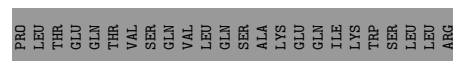
• Molecule 7: Coatomer subunit zeta-1



• Molecule 7: Coatomer subunit zeta-1

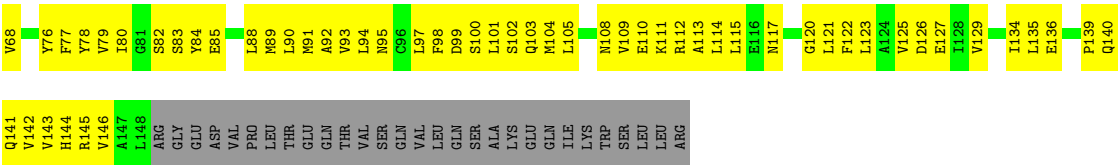


• Molecule 7: Coatomer subunit zeta-1



• Molecule 7: Coatomer subunit zeta-1

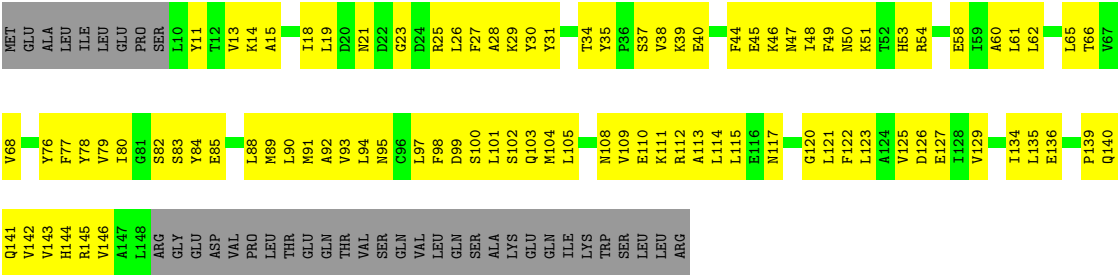




● Molecule 7: Coatomer subunit zeta-1



● Molecule 7: Coatomer subunit zeta-1



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	3312	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY; CTF-determination for each individual tilt image was performed using CTFFIND4. Strip-based CTF-correction and tomogram reconstruction was performed in Imod.	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2	Depositor
Minimum defocus (nm)	2500	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	0.200	Depositor
Minimum map value	-0.167	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.029	Depositor
Recommended contour level	0.035	Depositor
Map size ($\text{\AA}$)	377.36, 377.36, 377.36	wwPDB
Map dimensions	212, 212, 212	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.78, 1.78, 1.78	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1-A	2.98	96/829 (11.6%)	3.30	111/1027 (10.8%)
1	2-A	2.80	239/2694 (8.9%)	3.02	321/3363 (9.5%)
1	3-A	2.74	259/3197 (8.1%)	3.08	401/3993 (10.0%)
2	1-B	3.22	236/1822 (13.0%)	2.73	154/2271 (6.8%)
2	2-B	3.06	272/2415 (11.3%)	2.84	215/3007 (7.1%)
2	3-B	3.05	347/3087 (11.2%)	2.83	279/3848 (7.3%)
3	1-C	3.12	334/3056 (10.9%)	2.84	340/3812 (8.9%)
3	2-C	3.05	330/3213 (10.3%)	2.81	346/4012 (8.6%)
3	3-C	3.06	293/2910 (10.1%)	2.83	320/3630 (8.8%)
4	1-D	2.30	73/1599 (4.6%)	2.28	78/1990 (3.9%)
4	2-D	2.26	73/1704 (4.3%)	2.25	81/2124 (3.8%)
4	3-D	2.45	68/1203 (5.7%)	2.42	72/1497 (4.8%)
5	1-F	2.67	39/634 (6.2%)	2.99	72/791 (9.1%)
5	1-M	2.72	48/634 (7.6%)	2.78	58/791 (7.3%)
5	1-R	3.06	52/437 (11.9%)	2.82	40/545 (7.3%)
5	2-F	2.67	39/634 (6.2%)	2.99	72/791 (9.1%)
5	2-M	2.72	48/634 (7.6%)	2.78	58/791 (7.3%)
5	2-R	3.28	86/600 (14.3%)	3.01	70/749 (9.3%)
5	3-M	2.72	48/634 (7.6%)	2.78	58/791 (7.3%)
5	3-R	3.16	44/336 (13.1%)	2.80	31/418 (7.4%)
6	1-G	2.93	272/2768 (9.8%)	2.99	297/3452 (8.6%)
6	1-K	2.78	126/1510 (8.3%)	3.02	182/1883 (9.7%)
6	2-G	2.91	300/3136 (9.6%)	2.97	341/3916 (8.7%)
6	2-K	3.06	244/2237 (10.9%)	3.03	266/2793 (9.5%)
6	3-G	2.98	59/601 (9.8%)	3.10	77/747 (10.3%)
6	3-K	2.71	35/444 (7.9%)	2.95	51/549 (9.3%)
7	1-L	3.62	105/554 (19.0%)	2.94	62/691 (9.0%)
7	1-Z	3.24	27/215 (12.6%)	2.79	23/266 (8.6%)
7	2-L	3.62	105/554 (19.0%)	2.94	62/691 (9.0%)
7	2-Z	3.35	83/538 (15.4%)	2.78	57/671 (8.5%)
7	3-L	3.62	105/554 (19.0%)	2.94	62/691 (9.0%)
7	3-Z	3.58	36/217 (16.6%)	2.97	23/270 (8.5%)
All	All	2.95	4521/45600 (9.9%)	2.87	4680/56861 (8.2%)

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	1-B	0	3
2	2-B	0	3
2	3-B	0	3
All	All	0	9

All (4521) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	215	ILE	CA-C	-13.73	1.35	1.52
6	2-G	215	ILE	CA-C	-13.73	1.35	1.52
6	3-G	215	ILE	CA-C	-13.73	1.35	1.52
1	2-A	595	THR	CA-C	-13.56	1.43	1.52
1	3-A	595	THR	CA-C	-13.56	1.43	1.52
3	1-C	572	ARG	CA-C	-13.54	1.35	1.52
3	2-C	572	ARG	CA-C	-13.54	1.35	1.52
3	3-C	572	ARG	CA-C	-13.54	1.35	1.52
5	2-R	35	TYR	CA-C	-13.50	1.33	1.52
3	1-C	416	LYS	CA-C	-13.05	1.37	1.52
3	2-C	416	LYS	CA-C	-13.05	1.37	1.52
3	3-C	416	LYS	CA-C	-13.05	1.37	1.52
3	1-C	378	TYR	CA-C	-13.00	1.37	1.52
3	3-C	378	TYR	CA-C	-13.00	1.37	1.52
3	1-C	384	ARG	CA-C	-12.74	1.37	1.52
3	2-C	384	ARG	CA-C	-12.74	1.37	1.52
3	3-C	384	ARG	CA-C	-12.74	1.37	1.52
6	2-K	211	VAL	CA-C	-12.72	1.36	1.52
4	1-D	55	ARG	CA-C	-12.68	1.36	1.52
4	2-D	55	ARG	CA-C	-12.68	1.36	1.52
4	3-D	55	ARG	CA-C	-12.68	1.36	1.52
6	1-G	839	ASP	CA-C	-12.43	1.36	1.52
6	2-G	839	ASP	CA-C	-12.43	1.36	1.52
6	3-G	839	ASP	CA-C	-12.43	1.36	1.52
6	1-K	839	ASP	CA-C	-12.41	1.36	1.52
6	2-K	839	ASP	CA-C	-12.41	1.36	1.52
6	3-K	839	ASP	CA-C	-12.41	1.36	1.52
6	2-K	214	MET	CA-C	-12.30	1.36	1.52
3	1-C	377	ILE	CA-C	-12.29	1.38	1.52
3	3-C	377	ILE	CA-C	-12.29	1.38	1.52
2	2-B	762	ASN	CA-C	-12.07	1.37	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	762	ASN	CA-C	-12.07	1.37	1.53
2	1-B	126	HIS	CA-C	-11.78	1.38	1.52
2	2-B	126	HIS	CA-C	-11.78	1.38	1.52
2	3-B	126	HIS	CA-C	-11.78	1.38	1.52
3	1-C	449	PHE	CA-C	-11.60	1.38	1.52
5	1-R	109	ARG	CA-C	-11.60	1.36	1.52
3	2-C	449	PHE	CA-C	-11.60	1.38	1.52
5	2-R	109	ARG	CA-C	-11.60	1.36	1.52
3	3-C	449	PHE	CA-C	-11.60	1.38	1.52
5	3-R	109	ARG	CA-C	-11.60	1.36	1.52
6	2-K	235	VAL	N-CA	-11.31	1.33	1.46
1	2-A	679	GLU	CA-C	-11.29	1.38	1.52
1	3-A	679	GLU	CA-C	-11.29	1.38	1.52
1	2-A	594	PRO	CA-C	-11.26	1.39	1.52
1	3-A	594	PRO	CA-C	-11.26	1.39	1.52
7	1-Z	19	LEU	CA-C	-11.25	1.39	1.52
7	2-Z	19	LEU	CA-C	-11.25	1.39	1.52
7	3-Z	19	LEU	CA-C	-11.25	1.39	1.52
3	1-C	223	GLN	CA-C	-11.23	1.39	1.52
3	2-C	223	GLN	CA-C	-11.23	1.39	1.52
3	1-C	8	LYS	CA-C	-11.15	1.39	1.52
3	2-C	8	LYS	CA-C	-11.15	1.39	1.52
3	3-C	8	LYS	CA-C	-11.15	1.39	1.52
6	1-G	442	PHE	CA-C	-11.15	1.38	1.52
6	2-G	442	PHE	CA-C	-11.15	1.38	1.52
4	1-D	56	TYR	CA-C	-11.12	1.39	1.52
4	2-D	56	TYR	CA-C	-11.12	1.39	1.52
4	3-D	56	TYR	CA-C	-11.12	1.39	1.52
3	1-C	573	LEU	CA-C	-10.93	1.39	1.52
3	2-C	573	LEU	CA-C	-10.93	1.39	1.52
3	3-C	573	LEU	CA-C	-10.93	1.39	1.52
2	1-B	378	GLU	CA-C	-10.90	1.38	1.52
2	2-B	378	GLU	CA-C	-10.90	1.38	1.52
6	2-K	165	HIS	CA-C	-10.90	1.38	1.52
2	3-B	378	GLU	CA-C	-10.90	1.38	1.52
2	2-B	938	VAL	CA-C	-10.80	1.39	1.52
2	3-B	938	VAL	CA-C	-10.80	1.39	1.52
6	1-K	771	ASN	CA-C	-10.76	1.42	1.53
6	2-K	771	ASN	CA-C	-10.76	1.42	1.53
5	1-F	148	ILE	CA-C	-10.67	1.43	1.52
5	2-F	148	ILE	CA-C	-10.67	1.43	1.52
7	1-L	49	PHE	CA-C	-10.64	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-B	940	GLY	CA-C	-10.64	1.42	1.51
7	2-L	49	PHE	CA-C	-10.64	1.39	1.52
2	3-B	940	GLY	CA-C	-10.64	1.42	1.51
7	3-L	49	PHE	CA-C	-10.64	1.39	1.52
3	1-C	415	PHE	CA-C	-10.63	1.39	1.52
6	1-G	112	ASP	CA-C	-10.63	1.39	1.52
3	2-C	415	PHE	CA-C	-10.63	1.39	1.52
6	2-G	112	ASP	CA-C	-10.63	1.39	1.52
3	3-C	415	PHE	CA-C	-10.63	1.39	1.52
6	1-G	771	ASN	CA-C	-10.61	1.42	1.53
6	2-G	771	ASN	CA-C	-10.61	1.42	1.53
2	1-B	440	ARG	CA-C	-10.59	1.39	1.52
2	3-B	440	ARG	CA-C	-10.59	1.39	1.52
1	2-A	612	LEU	N-CA	-10.57	1.33	1.46
1	3-A	612	LEU	N-CA	-10.57	1.33	1.46
2	2-B	749	VAL	CA-C	-10.57	1.39	1.52
2	3-B	749	VAL	CA-C	-10.57	1.39	1.52
1	2-A	612	LEU	CA-C	-10.56	1.39	1.52
1	3-A	612	LEU	CA-C	-10.56	1.39	1.52
4	1-D	81	GLU	CA-C	-10.54	1.39	1.52
5	1-R	105	GLU	CA-C	-10.54	1.39	1.52
4	2-D	81	GLU	CA-C	-10.54	1.39	1.52
5	2-R	105	GLU	CA-C	-10.54	1.39	1.52
4	3-D	81	GLU	CA-C	-10.54	1.39	1.52
5	3-R	105	GLU	CA-C	-10.54	1.39	1.52
5	1-R	96	ASP	CA-C	-10.52	1.39	1.52
5	2-R	96	ASP	CA-C	-10.52	1.39	1.52
5	3-R	96	ASP	CA-C	-10.52	1.39	1.52
2	2-B	783	LEU	CA-C	-10.45	1.39	1.52
2	3-B	783	LEU	CA-C	-10.45	1.39	1.52
2	2-B	940	GLY	N-CA	-10.43	1.34	1.45
2	3-B	940	GLY	N-CA	-10.43	1.34	1.45
2	2-B	799	ASN	CA-C	-10.37	1.40	1.52
2	3-B	799	ASN	CA-C	-10.37	1.40	1.52
3	1-C	470	TRP	CA-C	-10.36	1.40	1.52
3	2-C	470	TRP	CA-C	-10.36	1.40	1.52
3	3-C	470	TRP	CA-C	-10.36	1.40	1.52
1	1-A	242	VAL	CA-C	-10.33	1.44	1.52
1	3-A	242	VAL	CA-C	-10.33	1.44	1.52
3	1-C	213	ILE	CA-C	-10.24	1.40	1.52
3	2-C	213	ILE	CA-C	-10.24	1.40	1.52
3	1-C	367	VAL	CA-C	-10.22	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	367	VAL	CA-C	-10.22	1.39	1.52
5	1-R	90	PHE	CA-C	-10.21	1.40	1.52
5	2-R	90	PHE	CA-C	-10.21	1.40	1.52
3	1-C	314	ILE	CA-C	-10.15	1.40	1.52
7	1-Z	15	ALA	CA-C	-10.15	1.40	1.52
3	2-C	314	ILE	CA-C	-10.15	1.40	1.52
7	2-Z	15	ALA	CA-C	-10.15	1.40	1.52
3	3-C	314	ILE	CA-C	-10.15	1.40	1.52
7	3-Z	15	ALA	CA-C	-10.15	1.40	1.52
5	1-R	110	MET	CA-C	-10.14	1.39	1.52
5	2-R	110	MET	CA-C	-10.14	1.39	1.52
5	3-R	110	MET	CA-C	-10.14	1.39	1.52
6	1-G	174	VAL	CA-C	-10.13	1.39	1.52
6	2-G	174	VAL	CA-C	-10.13	1.39	1.52
3	1-C	529	TRP	CA-C	-10.11	1.40	1.52
3	3-C	529	TRP	CA-C	-10.11	1.40	1.52
2	1-B	300	TYR	CA-C	-10.11	1.40	1.52
2	2-B	300	TYR	CA-C	-10.11	1.40	1.52
2	3-B	300	TYR	CA-C	-10.11	1.40	1.52
2	2-B	941	HIS	CA-C	-10.10	1.40	1.52
2	3-B	941	HIS	CA-C	-10.10	1.40	1.52
3	1-C	553	THR	CA-C	-10.09	1.40	1.52
3	2-C	553	THR	CA-C	-10.09	1.40	1.52
3	3-C	553	THR	CA-C	-10.09	1.40	1.52
2	1-B	317	LEU	CA-C	-10.07	1.39	1.52
2	2-B	317	LEU	CA-C	-10.07	1.39	1.52
2	3-B	317	LEU	CA-C	-10.07	1.39	1.52
3	1-C	545	TYR	CA-C	-10.07	1.40	1.52
5	1-R	107	MET	CA-C	-10.07	1.39	1.52
3	2-C	545	TYR	CA-C	-10.07	1.40	1.52
5	2-R	107	MET	CA-C	-10.07	1.39	1.52
3	3-C	545	TYR	CA-C	-10.07	1.40	1.52
5	3-R	107	MET	CA-C	-10.07	1.39	1.52
7	1-L	142	VAL	CA-C	-10.05	1.40	1.52
7	2-L	142	VAL	CA-C	-10.05	1.40	1.52
7	3-L	142	VAL	CA-C	-10.05	1.40	1.52
1	2-A	600	LYS	CA-C	-10.04	1.38	1.52
1	3-A	600	LYS	CA-C	-10.04	1.38	1.52
6	1-G	693	VAL	CA-C	-10.04	1.41	1.52
6	2-G	693	VAL	CA-C	-10.04	1.41	1.52
2	1-B	375	LEU	CA-C	-10.03	1.39	1.52
2	2-B	375	LEU	CA-C	-10.03	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-B	753	ASP	CA-C	-10.03	1.40	1.52
2	3-B	375	LEU	CA-C	-10.03	1.39	1.52
2	3-B	753	ASP	CA-C	-10.03	1.40	1.52
7	2-Z	61	LEU	CA-C	-9.97	1.41	1.52
7	3-Z	61	LEU	CA-C	-9.97	1.41	1.52
6	2-G	774	ALA	N-CA	-9.95	1.34	1.46
6	1-K	774	ALA	N-CA	-9.94	1.34	1.46
7	1-L	65	LEU	CA-C	-9.94	1.40	1.52
6	2-K	774	ALA	N-CA	-9.94	1.34	1.46
7	2-L	65	LEU	CA-C	-9.94	1.40	1.52
7	3-L	65	LEU	CA-C	-9.94	1.40	1.52
1	1-A	243	ASP	CA-C	-9.94	1.40	1.52
1	3-A	243	ASP	CA-C	-9.94	1.40	1.52
7	2-Z	65	LEU	CA-C	-9.93	1.40	1.52
6	2-K	234	ARG	CA-C	-9.91	1.40	1.52
2	1-B	379	VAL	CA-C	-9.90	1.40	1.52
2	1-B	349	LEU	CA-C	-9.85	1.40	1.52
2	2-B	349	LEU	CA-C	-9.85	1.40	1.52
2	3-B	349	LEU	CA-C	-9.85	1.40	1.52
3	1-C	414	ILE	CA-C	-9.81	1.40	1.52
6	1-G	225	SER	CA-C	-9.81	1.41	1.52
3	2-C	414	ILE	CA-C	-9.81	1.40	1.52
6	2-G	225	SER	CA-C	-9.81	1.41	1.52
3	3-C	414	ILE	CA-C	-9.81	1.40	1.52
6	3-G	225	SER	CA-C	-9.81	1.41	1.52
3	1-C	201	TYR	CA-C	-9.80	1.40	1.52
3	2-C	201	TYR	CA-C	-9.80	1.40	1.52
3	1-C	221	CYS	CA-C	-9.80	1.40	1.52
3	2-C	221	CYS	CA-C	-9.80	1.40	1.52
1	1-A	660	ILE	CA-C	-9.79	1.38	1.52
1	2-A	660	ILE	CA-C	-9.79	1.38	1.52
1	3-A	660	ILE	CA-C	-9.79	1.38	1.52
6	2-K	217	LYS	CA-C	-9.78	1.40	1.52
2	2-B	909	ASN	CA-C	-9.78	1.41	1.52
2	3-B	909	ASN	CA-C	-9.78	1.41	1.52
2	2-B	792	LEU	CA-C	-9.77	1.41	1.53
2	3-B	792	LEU	CA-C	-9.77	1.41	1.53
3	1-C	535	ILE	CA-C	-9.74	1.40	1.52
3	2-C	535	ILE	CA-C	-9.74	1.40	1.52
3	3-C	535	ILE	CA-C	-9.74	1.40	1.52
3	1-C	571	ASN	CA-C	-9.72	1.40	1.53
3	2-C	571	ASN	CA-C	-9.72	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	571	ASN	CA-C	-9.72	1.40	1.53
7	2-Z	30	TYR	CA-C	-9.71	1.40	1.52
7	3-Z	30	TYR	CA-C	-9.71	1.40	1.52
7	1-L	26	LEU	CA-C	-9.71	1.40	1.52
7	2-L	26	LEU	CA-C	-9.71	1.40	1.52
7	3-L	26	LEU	CA-C	-9.71	1.40	1.52
6	2-K	190	ILE	CA-C	-9.70	1.41	1.52
6	2-K	200	LEU	CA-C	-9.69	1.40	1.52
3	1-C	244	ILE	CA-C	-9.68	1.40	1.52
3	2-C	244	ILE	CA-C	-9.68	1.40	1.52
7	1-Z	19	LEU	N-CA	-9.67	1.33	1.45
7	2-Z	19	LEU	N-CA	-9.67	1.33	1.45
7	3-Z	19	LEU	N-CA	-9.67	1.33	1.45
6	1-G	235	VAL	N-CA	-9.66	1.35	1.46
6	2-G	235	VAL	N-CA	-9.66	1.35	1.46
6	3-G	235	VAL	N-CA	-9.66	1.35	1.46
6	1-K	773	GLU	CA-C	-9.65	1.40	1.52
6	2-K	773	GLU	CA-C	-9.65	1.40	1.52
3	1-C	521	GLN	CA-C	-9.62	1.40	1.52
3	3-C	521	GLN	CA-C	-9.62	1.40	1.52
3	1-C	313	LYS	CA-C	-9.62	1.41	1.52
3	2-C	313	LYS	CA-C	-9.62	1.41	1.52
3	3-C	313	LYS	CA-C	-9.62	1.41	1.52
6	1-G	135	THR	CA-C	-9.59	1.40	1.52
1	2-A	596	GLU	N-CA	-9.59	1.34	1.46
6	2-G	135	THR	CA-C	-9.59	1.40	1.52
1	3-A	596	GLU	N-CA	-9.59	1.34	1.46
6	2-G	773	GLU	CA-C	-9.56	1.40	1.52
3	1-C	283	SER	CA-C	-9.56	1.44	1.53
3	2-C	283	SER	CA-C	-9.56	1.44	1.53
3	3-C	283	SER	CA-C	-9.56	1.44	1.53
1	2-A	631	LYS	CA-C	-9.54	1.40	1.52
1	3-A	631	LYS	CA-C	-9.54	1.40	1.52
3	1-C	245	ILE	N-CA	-9.47	1.35	1.46
3	2-C	245	ILE	N-CA	-9.47	1.35	1.46
7	1-L	27	PHE	CA-C	-9.45	1.40	1.52
7	2-L	27	PHE	CA-C	-9.45	1.40	1.52
7	3-L	27	PHE	CA-C	-9.45	1.40	1.52
3	1-C	262	ARG	CA-C	-9.44	1.41	1.52
3	2-C	262	ARG	CA-C	-9.44	1.41	1.52
4	1-D	59	GLN	CA-C	-9.44	1.41	1.52
4	2-D	59	GLN	CA-C	-9.44	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	3-D	59	GLN	CA-C	-9.44	1.41	1.52
6	2-K	210	ALA	CA-C	-9.43	1.40	1.52
7	1-L	45	GLU	CA-C	-9.40	1.40	1.52
7	2-L	45	GLU	CA-C	-9.40	1.40	1.52
7	3-L	45	GLU	CA-C	-9.40	1.40	1.52
2	1-B	434	ASP	CA-C	-9.40	1.40	1.52
2	3-B	434	ASP	CA-C	-9.40	1.40	1.52
3	1-C	574	TYR	CA-C	-9.38	1.41	1.52
3	2-C	574	TYR	CA-C	-9.38	1.41	1.52
3	3-C	574	TYR	CA-C	-9.38	1.41	1.52
6	1-K	731	THR	CA-C	-9.37	1.41	1.52
6	2-K	731	THR	CA-C	-9.37	1.41	1.52
6	3-K	731	THR	CA-C	-9.37	1.41	1.52
5	1-M	47	PRO	CA-C	-9.36	1.40	1.52
5	2-M	47	PRO	CA-C	-9.36	1.40	1.52
5	3-M	47	PRO	CA-C	-9.36	1.40	1.52
3	1-C	151	ASN	CA-C	-9.35	1.42	1.52
3	2-C	151	ASN	CA-C	-9.35	1.42	1.52
3	3-C	151	ASN	CA-C	-9.35	1.42	1.52
6	2-G	872	SER	CA-C	-9.35	1.40	1.52
6	3-G	872	SER	CA-C	-9.35	1.40	1.52
6	1-K	872	SER	CA-C	-9.34	1.40	1.52
6	2-K	872	SER	CA-C	-9.34	1.40	1.52
6	3-K	872	SER	CA-C	-9.34	1.40	1.52
5	1-M	35	TYR	CA-C	-9.34	1.39	1.52
5	2-M	35	TYR	CA-C	-9.34	1.39	1.52
5	3-M	35	TYR	CA-C	-9.34	1.39	1.52
2	1-B	183	HIS	CA-C	-9.32	1.40	1.52
2	2-B	183	HIS	CA-C	-9.32	1.40	1.52
2	3-B	183	HIS	CA-C	-9.32	1.40	1.52
6	1-G	731	THR	CA-C	-9.31	1.41	1.52
6	2-G	731	THR	CA-C	-9.31	1.41	1.52
5	2-R	58	TYR	CA-C	-9.29	1.41	1.52
2	1-B	372	VAL	CA-C	-9.26	1.41	1.52
2	2-B	372	VAL	CA-C	-9.26	1.41	1.52
2	3-B	372	VAL	CA-C	-9.26	1.41	1.52
3	1-C	361	ASN	CA-C	-9.25	1.40	1.52
3	1-C	661	ALA	CA-C	-9.25	1.41	1.52
3	2-C	661	ALA	CA-C	-9.25	1.41	1.52
3	3-C	361	ASN	CA-C	-9.25	1.40	1.52
3	3-C	661	ALA	CA-C	-9.25	1.41	1.52
6	2-K	203	VAL	N-CA	-9.25	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-D	117	VAL	CA-C	-9.23	1.40	1.52
4	2-D	117	VAL	CA-C	-9.23	1.40	1.52
4	3-D	117	VAL	CA-C	-9.23	1.40	1.52
2	2-B	869	THR	CA-C	-9.22	1.41	1.52
2	3-B	869	THR	CA-C	-9.22	1.41	1.52
7	1-L	89	MET	CA-C	-9.21	1.41	1.52
7	2-L	89	MET	CA-C	-9.21	1.41	1.52
7	3-L	89	MET	CA-C	-9.21	1.41	1.52
3	1-C	256	TRP	CA-C	-9.20	1.41	1.52
3	2-C	256	TRP	CA-C	-9.20	1.41	1.52
2	1-B	374	VAL	CA-C	-9.17	1.41	1.52
2	2-B	374	VAL	CA-C	-9.17	1.41	1.52
2	3-B	374	VAL	CA-C	-9.17	1.41	1.52
4	1-D	50	GLU	CA-C	-9.16	1.41	1.52
4	2-D	50	GLU	CA-C	-9.16	1.41	1.52
4	3-D	50	GLU	CA-C	-9.16	1.41	1.52
3	1-C	253	VAL	CA-C	-9.15	1.41	1.52
3	2-C	253	VAL	CA-C	-9.15	1.41	1.52
6	2-K	202	HIS	CA-C	-9.15	1.40	1.52
1	1-A	663	GLU	CA-C	-9.14	1.41	1.52
1	2-A	663	GLU	CA-C	-9.14	1.41	1.52
1	3-A	663	GLU	CA-C	-9.14	1.41	1.52
1	1-A	808	TRP	CA-C	-9.13	1.45	1.52
1	3-A	808	TRP	CA-C	-9.13	1.45	1.52
1	3-A	230	LYS	CA-C	-9.13	1.41	1.52
6	1-G	70	PHE	CA-C	-9.12	1.41	1.52
6	2-G	70	PHE	CA-C	-9.12	1.41	1.52
3	2-C	602	ASP	CA-C	-9.11	1.42	1.53
3	3-C	602	ASP	CA-C	-9.11	1.42	1.53
3	1-C	555	ALA	CA-C	-9.11	1.41	1.52
1	2-A	14	GLY	CA-C	-9.11	1.44	1.51
3	2-C	555	ALA	CA-C	-9.11	1.41	1.52
1	3-A	14	GLY	CA-C	-9.11	1.44	1.51
3	3-C	555	ALA	CA-C	-9.11	1.41	1.52
2	2-B	849	THR	C-N	9.10	1.44	1.33
2	3-B	849	THR	C-N	9.10	1.44	1.33
5	1-R	84	ASN	CA-C	-9.10	1.40	1.52
5	2-R	84	ASN	CA-C	-9.10	1.40	1.52
6	1-G	827	THR	CA-C	-9.10	1.41	1.52
1	2-A	599	PHE	N-CA	-9.10	1.35	1.46
6	2-G	827	THR	CA-C	-9.10	1.41	1.52
1	3-A	599	PHE	N-CA	-9.10	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3-G	827	THR	CA-C	-9.10	1.41	1.52
6	1-K	827	THR	CA-C	-9.08	1.41	1.52
6	2-K	827	THR	CA-C	-9.08	1.41	1.52
6	1-G	190	ILE	CA-C	-9.08	1.41	1.52
6	2-G	190	ILE	CA-C	-9.08	1.41	1.52
6	3-G	190	ILE	CA-C	-9.08	1.41	1.52
6	2-K	142	ARG	CA-C	-9.06	1.41	1.52
1	2-A	74	LYS	CA-C	-9.05	1.40	1.52
1	3-A	74	LYS	CA-C	-9.05	1.40	1.52
2	1-B	398	LEU	CA-C	-9.01	1.41	1.52
5	1-M	90	PHE	CA-C	-9.01	1.41	1.52
5	2-M	90	PHE	CA-C	-9.01	1.41	1.52
2	3-B	398	LEU	CA-C	-9.01	1.41	1.52
5	3-M	90	PHE	CA-C	-9.01	1.41	1.52
4	1-D	52	GLU	CA-C	-9.00	1.41	1.53
4	2-D	52	GLU	CA-C	-9.00	1.41	1.53
4	3-D	52	GLU	CA-C	-9.00	1.41	1.53
2	2-B	870	VAL	CA-C	-8.99	1.42	1.52
2	3-B	870	VAL	CA-C	-8.99	1.42	1.52
1	1-A	519	ASP	CA-C	-8.97	1.42	1.52
1	2-A	519	ASP	CA-C	-8.97	1.42	1.52
6	2-K	201	TYR	CA-C	-8.97	1.41	1.52
1	3-A	519	ASP	CA-C	-8.97	1.42	1.52
2	1-B	373	ILE	CA-C	-8.96	1.41	1.52
2	2-B	373	ILE	CA-C	-8.96	1.41	1.52
2	3-B	373	ILE	CA-C	-8.96	1.41	1.52
6	1-G	232	MET	CA-C	-8.94	1.40	1.52
6	2-G	232	MET	CA-C	-8.94	1.40	1.52
6	3-G	232	MET	CA-C	-8.94	1.40	1.52
6	2-K	109	LEU	CA-C	-8.94	1.41	1.52
3	1-C	245	ILE	CA-C	-8.93	1.41	1.52
3	2-C	245	ILE	CA-C	-8.93	1.41	1.52
4	1-D	54	VAL	CA-C	-8.92	1.41	1.52
4	2-D	54	VAL	CA-C	-8.92	1.41	1.52
4	3-D	54	VAL	CA-C	-8.92	1.41	1.52
5	1-F	54	GLU	CA-C	-8.92	1.41	1.52
5	2-F	54	GLU	CA-C	-8.92	1.41	1.52
3	1-C	567	ILE	N-CA	-8.91	1.39	1.46
3	2-C	567	ILE	N-CA	-8.91	1.39	1.46
3	3-C	567	ILE	N-CA	-8.91	1.39	1.46
2	1-B	368	VAL	N-CA	-8.91	1.35	1.46
2	2-B	368	VAL	N-CA	-8.91	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	368	VAL	N-CA	-8.91	1.35	1.46
6	1-G	180	GLU	N-CA	-8.90	1.35	1.46
6	2-G	180	GLU	N-CA	-8.90	1.35	1.46
5	2-R	33	VAL	N-CA	-8.89	1.36	1.46
7	2-Z	69	TYR	CA-C	-8.87	1.41	1.52
3	1-C	453	GLU	CA-C	-8.86	1.41	1.52
3	2-C	453	GLU	CA-C	-8.86	1.41	1.52
3	3-C	453	GLU	CA-C	-8.86	1.41	1.52
1	2-A	610	GLU	N-CA	-8.86	1.35	1.46
1	3-A	610	GLU	N-CA	-8.86	1.35	1.46
1	2-A	285	GLN	CA-C	-8.85	1.41	1.52
1	3-A	285	GLN	CA-C	-8.85	1.41	1.52
5	1-R	112	ASN	CA-C	-8.85	1.40	1.52
5	2-R	112	ASN	CA-C	-8.85	1.40	1.52
5	3-R	112	ASN	CA-C	-8.85	1.40	1.52
2	2-B	760	VAL	CA-C	-8.85	1.41	1.52
2	3-B	760	VAL	CA-C	-8.85	1.41	1.52
6	1-K	251	LEU	CA-C	-8.84	1.41	1.52
3	2-C	459	ARG	CA-C	-8.84	1.41	1.52
6	2-K	251	LEU	CA-C	-8.84	1.41	1.52
3	3-C	459	ARG	CA-C	-8.84	1.41	1.52
3	1-C	630	PHE	CA-C	-8.83	1.44	1.53
3	2-C	630	PHE	CA-C	-8.83	1.44	1.53
3	3-C	630	PHE	CA-C	-8.83	1.44	1.53
6	1-G	89	TYR	CA-C	-8.81	1.41	1.52
6	2-G	89	TYR	CA-C	-8.81	1.41	1.52
5	1-M	38	LYS	CA-C	-8.81	1.41	1.52
5	2-M	38	LYS	CA-C	-8.81	1.41	1.52
5	3-M	38	LYS	CA-C	-8.81	1.41	1.52
6	1-K	291	VAL	N-CA	-8.80	1.36	1.46
6	2-K	291	VAL	N-CA	-8.80	1.36	1.46
1	1-A	674	TRP	CA-C	-8.80	1.41	1.52
1	2-A	674	TRP	CA-C	-8.80	1.41	1.52
1	3-A	674	TRP	CA-C	-8.80	1.41	1.52
1	1-A	506	LEU	CA-C	-8.79	1.41	1.52
1	2-A	506	LEU	CA-C	-8.79	1.41	1.52
1	3-A	506	LEU	CA-C	-8.79	1.41	1.52
6	1-G	90	LEU	CA-C	-8.79	1.41	1.52
6	2-G	90	LEU	CA-C	-8.79	1.41	1.52
5	1-R	106	VAL	N-CA	-8.74	1.36	1.46
6	1-K	722	CYS	CA-C	-8.74	1.42	1.52
5	2-R	106	VAL	N-CA	-8.74	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-K	722	CYS	CA-C	-8.74	1.42	1.52
5	3-R	106	VAL	N-CA	-8.74	1.36	1.46
6	3-K	722	CYS	CA-C	-8.74	1.42	1.52
7	1-L	100	SER	CA-C	-8.73	1.41	1.52
7	2-L	100	SER	CA-C	-8.73	1.41	1.52
7	3-L	100	SER	CA-C	-8.73	1.41	1.52
5	1-R	90	PHE	N-CA	-8.73	1.35	1.46
5	2-R	90	PHE	N-CA	-8.73	1.35	1.46
7	1-L	140	GLN	CA-C	-8.73	1.41	1.52
7	2-L	140	GLN	CA-C	-8.73	1.41	1.52
7	3-L	140	GLN	CA-C	-8.73	1.41	1.52
3	1-C	315	ILE	N-CA	-8.72	1.35	1.46
3	2-C	315	ILE	N-CA	-8.72	1.35	1.46
3	3-C	315	ILE	N-CA	-8.72	1.35	1.46
1	2-A	611	VAL	CA-C	-8.71	1.41	1.52
1	3-A	611	VAL	CA-C	-8.71	1.41	1.52
6	2-K	204	ARG	CA-C	-8.69	1.40	1.52
7	1-L	30	TYR	CA-C	-8.68	1.41	1.52
7	2-L	30	TYR	CA-C	-8.68	1.41	1.52
7	3-L	30	TYR	CA-C	-8.68	1.41	1.52
6	1-G	722	CYS	CA-C	-8.66	1.42	1.52
6	2-G	722	CYS	CA-C	-8.66	1.42	1.52
7	1-L	50	ASN	CA-C	-8.66	1.41	1.52
7	2-L	50	ASN	CA-C	-8.66	1.41	1.52
7	3-L	50	ASN	CA-C	-8.66	1.41	1.52
5	1-M	58	TYR	CA-C	-8.66	1.42	1.52
5	2-M	58	TYR	CA-C	-8.66	1.42	1.52
5	3-M	58	TYR	CA-C	-8.66	1.42	1.52
6	1-G	163	SER	CA-C	-8.65	1.41	1.52
6	2-G	163	SER	CA-C	-8.65	1.41	1.52
1	2-A	534	ALA	CA-C	-8.64	1.42	1.52
7	2-Z	62	LEU	CA-C	-8.64	1.42	1.52
7	3-Z	62	LEU	CA-C	-8.64	1.42	1.52
2	2-B	753	ASP	N-CA	-8.64	1.35	1.46
1	3-A	534	ALA	CA-C	-8.64	1.42	1.52
2	3-B	753	ASP	N-CA	-8.64	1.35	1.46
6	1-K	810	MET	CA-C	-8.63	1.41	1.52
2	2-B	750	ASN	N-CA	-8.63	1.35	1.46
6	2-K	810	MET	CA-C	-8.63	1.41	1.52
2	3-B	750	ASN	N-CA	-8.63	1.35	1.46
7	1-L	141	GLN	CA-C	-8.62	1.41	1.52
7	2-L	141	GLN	CA-C	-8.62	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	3-L	141	GLN	CA-C	-8.62	1.41	1.52
3	1-C	289	GLY	CA-C	-8.62	1.46	1.52
3	2-C	289	GLY	CA-C	-8.62	1.46	1.52
5	2-R	29	GLY	CA-C	-8.62	1.39	1.51
3	3-C	289	GLY	CA-C	-8.62	1.46	1.52
3	1-C	546	TYR	CA-C	-8.56	1.42	1.52
3	1-C	778	SER	CA-C	-8.56	1.41	1.52
2	2-B	742	TYR	CA-C	-8.56	1.42	1.52
3	2-C	546	TYR	CA-C	-8.56	1.42	1.52
3	2-C	778	SER	CA-C	-8.56	1.41	1.52
2	3-B	742	TYR	CA-C	-8.56	1.42	1.52
3	3-C	546	TYR	CA-C	-8.56	1.42	1.52
3	3-C	778	SER	CA-C	-8.56	1.41	1.52
1	1-A	505	LEU	CA-C	-8.55	1.42	1.52
2	1-B	468	LYS	CA-C	-8.55	1.42	1.52
1	2-A	505	LEU	CA-C	-8.55	1.42	1.52
1	3-A	505	LEU	CA-C	-8.55	1.42	1.52
2	3-B	468	LYS	CA-C	-8.55	1.42	1.52
6	1-G	810	MET	CA-C	-8.55	1.41	1.52
6	2-G	810	MET	CA-C	-8.55	1.41	1.52
6	3-G	810	MET	CA-C	-8.55	1.41	1.52
7	1-L	13	VAL	CA-C	-8.54	1.42	1.52
7	2-L	13	VAL	CA-C	-8.54	1.42	1.52
7	3-L	13	VAL	CA-C	-8.54	1.42	1.52
3	1-C	534	PHE	CA-C	-8.54	1.42	1.52
2	2-B	923	ASN	CA-C	-8.54	1.42	1.52
3	2-C	534	PHE	CA-C	-8.54	1.42	1.52
2	3-B	923	ASN	CA-C	-8.54	1.42	1.52
3	3-C	534	PHE	CA-C	-8.54	1.42	1.52
6	1-G	234	ARG	CA-C	-8.52	1.41	1.52
6	2-G	234	ARG	CA-C	-8.52	1.41	1.52
6	3-G	234	ARG	CA-C	-8.52	1.41	1.52
6	2-K	232	MET	CA-C	-8.51	1.41	1.52
6	1-G	92	ILE	CA-C	-8.51	1.42	1.52
6	2-G	92	ILE	CA-C	-8.51	1.42	1.52
7	2-Z	65	LEU	N-CA	-8.51	1.35	1.45
2	1-B	332	VAL	CA-C	-8.49	1.41	1.52
2	2-B	332	VAL	CA-C	-8.49	1.41	1.52
7	1-L	103	GLN	CA-C	-8.48	1.41	1.52
7	2-L	103	GLN	CA-C	-8.48	1.41	1.52
7	3-L	103	GLN	CA-C	-8.48	1.41	1.52
6	1-G	214	MET	CA-C	-8.47	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	726	CYS	CA-C	-8.47	1.42	1.52
6	2-G	214	MET	CA-C	-8.47	1.41	1.52
6	2-G	726	CYS	CA-C	-8.47	1.42	1.52
2	3-B	60	VAL	CA-C	-8.47	1.42	1.52
6	3-G	214	MET	CA-C	-8.47	1.41	1.52
3	1-C	71	TRP	CA-C	-8.46	1.42	1.52
3	1-C	550	GLU	CA-C	-8.46	1.42	1.52
2	2-B	801	LYS	CA-C	-8.46	1.42	1.52
3	2-C	71	TRP	CA-C	-8.46	1.42	1.52
3	2-C	550	GLU	CA-C	-8.46	1.42	1.52
2	3-B	801	LYS	CA-C	-8.46	1.42	1.52
3	3-C	71	TRP	CA-C	-8.46	1.42	1.52
3	3-C	550	GLU	CA-C	-8.46	1.42	1.52
6	1-K	726	CYS	CA-C	-8.45	1.42	1.52
6	2-K	726	CYS	CA-C	-8.45	1.42	1.52
6	3-K	726	CYS	CA-C	-8.45	1.42	1.52
1	1-A	514	CYS	CA-C	-8.45	1.42	1.52
1	2-A	514	CYS	CA-C	-8.45	1.42	1.52
1	3-A	514	CYS	CA-C	-8.45	1.42	1.52
6	1-G	441	GLU	CA-C	-8.44	1.42	1.52
6	2-G	441	GLU	CA-C	-8.44	1.42	1.52
2	2-B	836	ASP	CA-C	-8.43	1.41	1.53
2	3-B	836	ASP	CA-C	-8.43	1.41	1.53
2	2-B	759	LEU	N-CA	-8.42	1.35	1.46
2	3-B	759	LEU	N-CA	-8.42	1.35	1.46
6	1-G	211	VAL	CA-C	-8.41	1.42	1.52
6	2-G	211	VAL	CA-C	-8.41	1.42	1.52
6	3-G	211	VAL	CA-C	-8.41	1.42	1.52
7	1-L	129	VAL	CA-C	-8.41	1.42	1.52
7	2-L	129	VAL	CA-C	-8.41	1.42	1.52
7	3-L	129	VAL	CA-C	-8.41	1.42	1.52
3	1-C	84	PHE	CA-C	-8.39	1.42	1.52
3	2-C	84	PHE	CA-C	-8.39	1.42	1.52
3	3-C	84	PHE	CA-C	-8.39	1.42	1.52
2	1-B	369	GLU	CA-C	-8.39	1.42	1.52
2	2-B	369	GLU	CA-C	-8.39	1.42	1.52
2	3-B	369	GLU	CA-C	-8.39	1.42	1.52
6	2-K	163	SER	CA-C	-8.38	1.41	1.52
6	2-K	168	LYS	CA-C	-8.38	1.42	1.52
1	2-A	596	GLU	CA-C	-8.37	1.41	1.52
1	3-A	596	GLU	CA-C	-8.37	1.41	1.52
3	1-C	530	VAL	CA-C	-8.36	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	530	VAL	CA-C	-8.36	1.43	1.52
1	2-A	613	HIS	CA-C	-8.36	1.42	1.52
1	3-A	613	HIS	CA-C	-8.36	1.42	1.52
6	1-G	74	THR	CA-C	-8.35	1.41	1.52
6	2-G	74	THR	CA-C	-8.35	1.41	1.52
3	1-C	150	ILE	CA-C	-8.34	1.42	1.52
3	2-C	150	ILE	CA-C	-8.34	1.42	1.52
3	3-C	150	ILE	CA-C	-8.34	1.42	1.52
2	1-B	374	VAL	N-CA	-8.33	1.36	1.46
1	2-A	391	TYR	CA-C	-8.33	1.42	1.52
2	2-B	374	VAL	N-CA	-8.33	1.36	1.46
1	3-A	391	TYR	CA-C	-8.33	1.42	1.52
2	3-B	374	VAL	N-CA	-8.33	1.36	1.46
3	1-C	494	LYS	CA-C	-8.32	1.42	1.52
6	1-G	91	THR	N-CA	-8.32	1.36	1.46
3	2-C	494	LYS	CA-C	-8.32	1.42	1.52
6	2-G	91	THR	N-CA	-8.32	1.36	1.46
3	3-C	494	LYS	CA-C	-8.32	1.42	1.52
2	2-B	754	ILE	N-CA	-8.32	1.35	1.46
2	3-B	754	ILE	N-CA	-8.32	1.35	1.46
7	2-Z	142	VAL	CA-C	-8.31	1.42	1.52
5	1-R	103	ALA	CA-C	-8.31	1.42	1.52
5	2-R	103	ALA	CA-C	-8.31	1.42	1.52
5	3-R	103	ALA	CA-C	-8.31	1.42	1.52
2	1-B	380	ILE	CA-C	-8.31	1.42	1.52
2	1-B	371	LEU	N-CA	-8.30	1.36	1.46
2	2-B	371	LEU	N-CA	-8.30	1.36	1.46
2	3-B	371	LEU	N-CA	-8.30	1.36	1.46
1	2-A	413	SER	CA-C	-8.30	1.42	1.52
1	3-A	413	SER	CA-C	-8.30	1.42	1.52
2	1-B	418	PRO	CA-C	-8.30	1.39	1.52
2	2-B	418	PRO	CA-C	-8.30	1.39	1.52
2	3-B	418	PRO	CA-C	-8.30	1.39	1.52
7	1-L	48	ILE	N-CA	-8.29	1.36	1.46
7	2-L	48	ILE	N-CA	-8.29	1.36	1.46
7	3-L	48	ILE	N-CA	-8.29	1.36	1.46
3	1-C	760	THR	CA-C	-8.28	1.42	1.52
3	2-C	760	THR	CA-C	-8.28	1.42	1.52
3	3-C	760	THR	CA-C	-8.28	1.42	1.52
1	1-A	588	ARG	CA-C	8.27	1.62	1.52
1	2-A	588	ARG	CA-C	8.27	1.62	1.52
1	3-A	588	ARG	CA-C	8.27	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	379	THR	N-CA	-8.26	1.36	1.46
3	3-C	379	THR	N-CA	-8.26	1.36	1.46
6	1-G	72	ALA	N-CA	-8.26	1.36	1.46
6	2-G	72	ALA	N-CA	-8.26	1.36	1.46
3	1-C	80	GLN	CA-C	-8.25	1.42	1.52
3	2-C	80	GLN	CA-C	-8.25	1.42	1.52
3	3-C	80	GLN	CA-C	-8.25	1.42	1.52
2	3-B	61	ILE	CA-C	-8.24	1.42	1.52
6	1-G	476	ILE	CA-C	-8.24	1.42	1.52
6	2-G	476	ILE	CA-C	-8.24	1.42	1.52
2	2-B	76	THR	CA-C	-8.24	1.42	1.52
2	2-B	908	ALA	CA-C	-8.24	1.42	1.52
2	3-B	76	THR	CA-C	-8.24	1.42	1.52
2	3-B	908	ALA	CA-C	-8.24	1.42	1.52
1	2-A	56	GLY	CA-C	-8.23	1.44	1.51
1	3-A	56	GLY	CA-C	-8.23	1.44	1.51
2	1-B	477	LEU	CA-C	-8.23	1.42	1.52
2	3-B	477	LEU	CA-C	-8.23	1.42	1.52
5	1-M	171	GLU	CA-C	-8.23	1.42	1.52
5	2-M	171	GLU	CA-C	-8.23	1.42	1.52
5	3-M	171	GLU	CA-C	-8.23	1.42	1.52
2	1-B	456	LYS	CA-C	-8.21	1.42	1.52
2	3-B	456	LYS	CA-C	-8.21	1.42	1.52
7	1-L	48	ILE	CA-C	-8.21	1.42	1.52
7	2-L	48	ILE	CA-C	-8.21	1.42	1.52
7	3-L	48	ILE	CA-C	-8.21	1.42	1.52
6	2-K	211	VAL	N-CA	-8.19	1.36	1.46
4	1-D	61	MET	CA-C	-8.18	1.43	1.52
4	2-D	61	MET	CA-C	-8.18	1.43	1.52
7	2-Z	129	VAL	CA-C	-8.18	1.43	1.52
4	3-D	61	MET	CA-C	-8.18	1.43	1.52
6	2-K	203	VAL	CA-C	-8.18	1.42	1.52
3	1-C	154	ASP	CA-C	-8.18	1.42	1.53
1	2-A	602	ALA	CA-C	-8.18	1.42	1.52
3	2-C	154	ASP	CA-C	-8.18	1.42	1.53
1	3-A	602	ALA	CA-C	-8.18	1.42	1.52
3	3-C	154	ASP	CA-C	-8.18	1.42	1.53
1	2-A	598	LYS	CA-C	-8.17	1.42	1.52
1	3-A	598	LYS	CA-C	-8.17	1.42	1.52
2	1-B	417	ILE	CA-C	-8.17	1.45	1.52
2	2-B	417	ILE	CA-C	-8.17	1.45	1.52
2	3-B	417	ILE	CA-C	-8.17	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	552	VAL	CA-C	-8.15	1.43	1.52
3	2-C	552	VAL	CA-C	-8.15	1.43	1.52
3	3-C	552	VAL	CA-C	-8.15	1.43	1.52
4	1-D	51	THR	CA-C	-8.14	1.42	1.52
4	2-D	51	THR	CA-C	-8.14	1.42	1.52
4	3-D	51	THR	CA-C	-8.14	1.42	1.52
5	1-M	34	LEU	CA-C	-8.14	1.42	1.52
5	2-M	34	LEU	CA-C	-8.14	1.42	1.52
5	3-M	34	LEU	CA-C	-8.14	1.42	1.52
2	1-B	275	VAL	CA-C	-8.11	1.43	1.52
2	2-B	275	VAL	CA-C	-8.11	1.43	1.52
2	3-B	275	VAL	CA-C	-8.11	1.43	1.52
3	1-C	383	LEU	CA-C	-8.10	1.42	1.53
3	2-C	383	LEU	CA-C	-8.10	1.42	1.53
3	3-C	383	LEU	CA-C	-8.10	1.42	1.53
1	2-A	21	ARG	CA-C	-8.10	1.43	1.52
1	3-A	21	ARG	CA-C	-8.10	1.43	1.52
6	1-G	143	TYR	CA-C	-8.10	1.42	1.52
6	2-G	143	TYR	CA-C	-8.10	1.42	1.52
2	1-B	440	ARG	N-CA	-8.09	1.36	1.46
2	3-B	440	ARG	N-CA	-8.09	1.36	1.46
6	2-K	105	VAL	N-CA	-8.08	1.34	1.46
6	1-G	254	PHE	CA-C	-8.08	1.42	1.52
6	2-G	254	PHE	CA-C	-8.08	1.42	1.52
2	1-B	373	ILE	N-CA	-8.07	1.36	1.46
2	2-B	373	ILE	N-CA	-8.07	1.36	1.46
2	3-B	373	ILE	N-CA	-8.07	1.36	1.46
6	1-K	869	ILE	CA-C	-8.07	1.42	1.52
6	2-K	869	ILE	CA-C	-8.07	1.42	1.52
6	3-K	869	ILE	CA-C	-8.07	1.42	1.52
5	2-R	38	LYS	CA-C	-8.07	1.42	1.52
1	2-A	715	LYS	CA-C	-8.06	1.42	1.52
1	3-A	715	LYS	CA-C	-8.06	1.42	1.52
5	1-R	154	PHE	CA-C	-8.06	1.42	1.52
5	2-R	154	PHE	CA-C	-8.06	1.42	1.52
5	3-R	154	PHE	CA-C	-8.06	1.42	1.52
6	1-G	233	ILE	CA-C	-8.05	1.42	1.52
6	2-G	233	ILE	CA-C	-8.05	1.42	1.52
6	3-G	233	ILE	CA-C	-8.05	1.42	1.52
3	1-C	169	VAL	CA-C	-8.04	1.43	1.52
3	2-C	169	VAL	CA-C	-8.04	1.43	1.52
3	3-C	169	VAL	CA-C	-8.04	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1-A	659	GLU	CA-C	-8.03	1.42	1.52
2	1-B	457	MET	N-CA	-8.03	1.36	1.46
1	2-A	659	GLU	CA-C	-8.03	1.42	1.52
1	3-A	659	GLU	CA-C	-8.03	1.42	1.52
2	3-B	457	MET	N-CA	-8.03	1.36	1.46
3	2-C	601	ARG	CA-C	-8.02	1.42	1.52
3	3-C	601	ARG	CA-C	-8.02	1.42	1.52
2	2-B	810	GLU	CA-C	-8.02	1.42	1.52
2	3-B	810	GLU	CA-C	-8.02	1.42	1.52
1	1-A	675	GLU	CA-C	-8.02	1.42	1.52
1	2-A	675	GLU	CA-C	-8.02	1.42	1.52
1	3-A	675	GLU	CA-C	-8.02	1.42	1.52
6	1-G	173	VAL	N-CA	-8.01	1.37	1.46
6	2-G	173	VAL	N-CA	-8.01	1.37	1.46
7	1-L	18	ILE	CA-C	-8.01	1.42	1.52
7	2-L	18	ILE	CA-C	-8.01	1.42	1.52
7	3-L	18	ILE	CA-C	-8.01	1.42	1.52
6	1-G	173	VAL	CA-C	-8.01	1.42	1.52
6	2-G	173	VAL	CA-C	-8.01	1.42	1.52
2	1-B	339	ASP	CA-C	-8.00	1.42	1.52
2	2-B	339	ASP	CA-C	-8.00	1.42	1.52
1	2-A	191	GLY	CA-C	-8.00	1.40	1.51
1	3-A	191	GLY	CA-C	-8.00	1.40	1.51
6	2-G	869	ILE	CA-C	-7.97	1.42	1.52
6	3-G	869	ILE	CA-C	-7.97	1.42	1.52
2	1-B	460	VAL	CA-C	-7.97	1.43	1.52
2	3-B	460	VAL	CA-C	-7.97	1.43	1.52
7	2-Z	134	ILE	CA-C	-7.97	1.43	1.52
1	1-A	673	CYS	N-CA	-7.96	1.36	1.46
1	2-A	673	CYS	N-CA	-7.96	1.36	1.46
1	3-A	673	CYS	N-CA	-7.96	1.36	1.46
6	1-K	843	ARG	CA-C	-7.96	1.42	1.52
6	2-K	843	ARG	CA-C	-7.96	1.42	1.52
6	3-K	843	ARG	CA-C	-7.96	1.42	1.52
6	1-G	843	ARG	CA-C	-7.96	1.42	1.52
6	2-G	843	ARG	CA-C	-7.96	1.42	1.52
6	3-G	843	ARG	CA-C	-7.96	1.42	1.52
6	1-K	730	PHE	CA-C	-7.95	1.43	1.52
6	2-K	730	PHE	CA-C	-7.95	1.43	1.52
6	3-K	730	PHE	CA-C	-7.95	1.43	1.52
3	1-C	85	ASN	N-CA	-7.95	1.35	1.46
3	2-C	85	ASN	N-CA	-7.95	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	85	ASN	N-CA	-7.95	1.35	1.46
3	1-C	544	ASN	CA-C	-7.94	1.42	1.52
3	2-C	544	ASN	CA-C	-7.94	1.42	1.52
3	3-C	544	ASN	CA-C	-7.94	1.42	1.52
6	1-G	530	PHE	CA-C	-7.94	1.42	1.52
6	2-G	530	PHE	CA-C	-7.94	1.42	1.52
5	2-R	23	VAL	CA-C	-7.93	1.43	1.52
6	2-K	84	LEU	CA-C	-7.93	1.42	1.52
6	1-G	730	PHE	CA-C	-7.93	1.43	1.52
6	2-G	730	PHE	CA-C	-7.93	1.43	1.52
7	1-L	143	VAL	CA-C	-7.93	1.43	1.52
7	2-L	143	VAL	CA-C	-7.93	1.43	1.52
7	3-L	143	VAL	CA-C	-7.93	1.43	1.52
3	1-C	360	HIS	CA-C	-7.92	1.42	1.53
3	3-C	360	HIS	CA-C	-7.92	1.42	1.53
3	1-C	419	LYS	CA-C	-7.92	1.42	1.52
1	2-A	213	PHE	CA-C	-7.92	1.43	1.52
3	2-C	419	LYS	CA-C	-7.92	1.42	1.52
1	3-A	213	PHE	CA-C	-7.92	1.43	1.52
3	3-C	419	LYS	CA-C	-7.92	1.42	1.52
6	2-K	191	MET	CA-C	-7.91	1.42	1.52
6	1-G	484	HIS	CA-C	-7.91	1.42	1.52
6	2-G	484	HIS	CA-C	-7.91	1.42	1.52
3	1-C	359	GLN	CA-C	-7.90	1.42	1.52
3	3-C	359	GLN	CA-C	-7.90	1.42	1.52
2	1-B	453	ILE	N-CA	-7.89	1.37	1.46
2	3-B	453	ILE	N-CA	-7.89	1.37	1.46
3	1-C	535	ILE	N-CA	-7.88	1.36	1.46
3	2-C	535	ILE	N-CA	-7.88	1.36	1.46
3	3-C	535	ILE	N-CA	-7.88	1.36	1.46
2	1-B	379	VAL	N-CA	-7.87	1.37	1.46
2	2-B	758	VAL	CA-C	-7.87	1.43	1.52
2	3-B	758	VAL	CA-C	-7.87	1.43	1.52
7	1-L	44	PHE	CA-C	-7.86	1.42	1.52
7	2-L	44	PHE	CA-C	-7.86	1.42	1.52
7	3-L	44	PHE	CA-C	-7.86	1.42	1.52
6	1-G	237	SER	CA-C	-7.85	1.43	1.52
6	2-G	237	SER	CA-C	-7.85	1.43	1.52
1	1-A	659	GLU	N-CA	-7.85	1.36	1.46
1	2-A	659	GLU	N-CA	-7.85	1.36	1.46
1	3-A	659	GLU	N-CA	-7.85	1.36	1.46
6	1-G	141	GLU	N-CA	-7.85	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-G	141	GLU	N-CA	-7.85	1.36	1.46
6	1-G	499	GLY	CA-C	-7.84	1.43	1.52
6	2-G	499	GLY	CA-C	-7.84	1.43	1.52
2	2-B	770	ASN	CA-C	-7.83	1.43	1.52
2	3-B	770	ASN	CA-C	-7.83	1.43	1.52
6	2-K	182	GLN	CA-C	-7.83	1.42	1.52
3	1-C	379	THR	CA-C	-7.82	1.43	1.52
3	3-C	379	THR	CA-C	-7.82	1.43	1.52
6	2-K	166	LEU	CA-C	-7.82	1.42	1.52
5	1-M	90	PHE	N-CA	-7.81	1.36	1.46
5	2-M	90	PHE	N-CA	-7.81	1.36	1.46
5	3-M	90	PHE	N-CA	-7.81	1.36	1.46
3	1-C	385	ASN	CA-C	-7.81	1.42	1.52
3	2-C	385	ASN	CA-C	-7.81	1.42	1.52
3	3-C	385	ASN	CA-C	-7.81	1.42	1.52
3	1-C	730	MET	CA-C	-7.80	1.42	1.52
3	2-C	730	MET	CA-C	-7.80	1.42	1.52
3	3-C	730	MET	CA-C	-7.80	1.42	1.52
7	1-L	113	ALA	CA-C	-7.79	1.42	1.52
7	2-L	113	ALA	CA-C	-7.79	1.42	1.52
7	3-L	113	ALA	CA-C	-7.79	1.42	1.52
2	2-B	820	TYR	CA-C	-7.79	1.42	1.52
2	3-B	820	TYR	CA-C	-7.79	1.42	1.52
2	1-B	318	ASP	CA-C	-7.79	1.42	1.52
1	2-A	681	ALA	CA-C	-7.79	1.43	1.52
2	2-B	318	ASP	CA-C	-7.79	1.42	1.52
1	3-A	681	ALA	CA-C	-7.79	1.43	1.52
2	3-B	318	ASP	CA-C	-7.79	1.42	1.52
1	2-A	631	LYS	N-CA	-7.78	1.36	1.46
1	3-A	631	LYS	N-CA	-7.78	1.36	1.46
6	1-K	306	ALA	CA-C	-7.78	1.42	1.52
6	2-K	306	ALA	CA-C	-7.78	1.42	1.52
1	2-A	428	VAL	N-CA	-7.78	1.37	1.46
1	3-A	428	VAL	N-CA	-7.78	1.37	1.46
7	1-L	101	LEU	CA-C	-7.77	1.42	1.52
5	1-M	159	CYS	CA-C	-7.77	1.43	1.52
7	2-L	101	LEU	CA-C	-7.77	1.42	1.52
5	2-M	159	CYS	CA-C	-7.77	1.43	1.52
7	3-L	101	LEU	CA-C	-7.77	1.42	1.52
5	3-M	159	CYS	CA-C	-7.77	1.43	1.52
6	1-G	165	HIS	CA-C	-7.77	1.42	1.52
6	2-G	165	HIS	CA-C	-7.77	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-B	77	ILE	CA-C	-7.76	1.43	1.52
2	3-B	77	ILE	CA-C	-7.76	1.43	1.52
5	2-R	31	THR	CA-C	-7.76	1.42	1.52
5	1-R	100	ILE	N-CA	-7.75	1.37	1.46
5	2-R	100	ILE	N-CA	-7.75	1.37	1.46
5	3-R	100	ILE	N-CA	-7.75	1.37	1.46
5	1-R	106	VAL	CA-C	-7.75	1.43	1.52
5	2-R	106	VAL	CA-C	-7.75	1.43	1.52
5	3-R	106	VAL	CA-C	-7.75	1.43	1.52
7	1-Z	16	ILE	N-CA	-7.74	1.37	1.46
1	2-A	321	ARG	CA-C	-7.74	1.42	1.53
7	2-Z	16	ILE	N-CA	-7.74	1.37	1.46
1	3-A	321	ARG	CA-C	-7.74	1.42	1.53
7	3-Z	16	ILE	N-CA	-7.74	1.37	1.46
5	1-R	121	TRP	CA-C	-7.74	1.43	1.52
5	2-R	121	TRP	CA-C	-7.74	1.43	1.52
5	3-R	121	TRP	CA-C	-7.74	1.43	1.52
3	1-C	442	ARG	CA-C	-7.73	1.43	1.52
3	2-C	442	ARG	CA-C	-7.73	1.43	1.52
2	1-B	447	ASP	CA-C	-7.73	1.42	1.52
2	3-B	447	ASP	CA-C	-7.73	1.42	1.52
2	2-B	777	THR	CA-C	-7.72	1.43	1.52
2	3-B	777	THR	CA-C	-7.72	1.43	1.52
3	1-C	566	TYR	CA-C	-7.71	1.43	1.52
3	2-C	566	TYR	CA-C	-7.71	1.43	1.52
3	3-C	566	TYR	CA-C	-7.71	1.43	1.52
2	1-B	94	LEU	CA-C	-7.71	1.42	1.52
3	1-C	573	LEU	N-CA	-7.71	1.36	1.46
2	2-B	94	LEU	CA-C	-7.71	1.42	1.52
3	2-C	573	LEU	N-CA	-7.71	1.36	1.46
2	3-B	94	LEU	CA-C	-7.71	1.42	1.52
3	3-C	573	LEU	N-CA	-7.71	1.36	1.46
1	1-A	675	GLU	N-CA	-7.71	1.37	1.46
1	2-A	675	GLU	N-CA	-7.71	1.37	1.46
1	3-A	675	GLU	N-CA	-7.71	1.37	1.46
2	1-B	177	ILE	CA-C	-7.70	1.42	1.52
3	1-C	380	ALA	CA-C	-7.70	1.43	1.52
2	2-B	177	ILE	CA-C	-7.70	1.42	1.52
2	3-B	177	ILE	CA-C	-7.70	1.42	1.52
3	3-C	380	ALA	CA-C	-7.70	1.43	1.52
7	1-L	105	LEU	CA-C	-7.70	1.42	1.52
2	2-B	833	VAL	CA-C	-7.70	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	2-L	105	LEU	CA-C	-7.70	1.42	1.52
2	3-B	833	VAL	CA-C	-7.70	1.43	1.52
7	3-L	105	LEU	CA-C	-7.70	1.42	1.52
6	1-G	178	VAL	N-CA	-7.69	1.37	1.46
6	2-G	178	VAL	N-CA	-7.69	1.37	1.46
6	2-G	775	ALA	CA-C	-7.68	1.42	1.52
3	1-C	484	SER	CA-C	-7.67	1.42	1.52
3	2-C	484	SER	CA-C	-7.67	1.42	1.52
3	3-C	484	SER	CA-C	-7.67	1.42	1.52
6	1-K	775	ALA	CA-C	-7.67	1.42	1.52
2	2-B	870	VAL	N-CA	-7.67	1.37	1.46
6	2-K	775	ALA	CA-C	-7.67	1.42	1.52
2	3-B	870	VAL	N-CA	-7.67	1.37	1.46
1	1-A	520	ALA	CA-C	-7.66	1.43	1.52
1	2-A	520	ALA	CA-C	-7.66	1.43	1.52
1	3-A	520	ALA	CA-C	-7.66	1.43	1.52
2	2-B	761	VAL	N-CA	-7.66	1.37	1.46
2	3-B	761	VAL	N-CA	-7.66	1.37	1.46
3	1-C	326	ASN	CA-C	-7.66	1.42	1.52
3	2-C	326	ASN	CA-C	-7.66	1.42	1.52
3	3-C	326	ASN	CA-C	-7.66	1.42	1.52
2	1-B	393	LYS	CA-C	-7.65	1.42	1.52
3	1-C	774	ARG	CA-C	-7.65	1.42	1.52
3	2-C	774	ARG	CA-C	-7.65	1.42	1.52
2	3-B	393	LYS	CA-C	-7.65	1.42	1.52
3	3-C	774	ARG	CA-C	-7.65	1.42	1.52
6	2-K	215	ILE	CA-C	-7.65	1.43	1.52
2	1-B	457	MET	CA-C	-7.64	1.42	1.52
2	3-B	457	MET	CA-C	-7.64	1.42	1.52
6	1-G	258	CYS	CA-C	-7.64	1.42	1.52
7	1-L	83	SER	CA-C	-7.64	1.43	1.53
6	2-G	258	CYS	CA-C	-7.64	1.42	1.52
7	2-L	83	SER	CA-C	-7.64	1.43	1.53
7	3-L	83	SER	CA-C	-7.64	1.43	1.53
6	2-K	220	ARG	CA-C	-7.63	1.43	1.52
6	2-K	105	VAL	CA-C	-7.62	1.41	1.52
6	1-G	168	LYS	CA-C	-7.62	1.43	1.52
6	2-G	168	LYS	CA-C	-7.62	1.43	1.52
2	1-B	450	ARG	CA-C	-7.62	1.42	1.52
2	3-B	450	ARG	CA-C	-7.62	1.42	1.52
3	1-C	690	LEU	CA-C	-7.62	1.43	1.52
3	2-C	690	LEU	CA-C	-7.62	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	690	LEU	CA-C	-7.62	1.43	1.52
4	1-D	235	VAL	CA-C	-7.62	1.43	1.52
4	2-D	235	VAL	CA-C	-7.62	1.43	1.52
4	3-D	235	VAL	CA-C	-7.62	1.43	1.52
6	2-K	164	LEU	CA-C	-7.61	1.42	1.52
6	1-K	55	ILE	N-CA	-7.61	1.37	1.46
6	2-K	55	ILE	N-CA	-7.61	1.37	1.46
7	2-Z	68	VAL	CA-C	-7.60	1.43	1.52
1	1-A	486	VAL	CA-C	-7.60	1.43	1.52
6	1-G	69	ALA	CA-C	-7.60	1.43	1.52
1	2-A	486	VAL	CA-C	-7.60	1.43	1.52
6	2-G	69	ALA	CA-C	-7.60	1.43	1.52
1	3-A	486	VAL	CA-C	-7.60	1.43	1.52
3	1-C	588	LEU	N-CA	-7.59	1.36	1.46
3	2-C	588	LEU	N-CA	-7.59	1.36	1.46
3	3-C	588	LEU	N-CA	-7.59	1.36	1.46
6	1-G	475	PHE	CA-C	-7.59	1.43	1.52
6	2-G	475	PHE	CA-C	-7.59	1.43	1.52
7	2-Z	29	LYS	CA-C	-7.58	1.43	1.52
7	3-Z	29	LYS	CA-C	-7.58	1.43	1.52
4	1-D	84	ARG	CA-C	-7.58	1.43	1.52
4	2-D	84	ARG	CA-C	-7.58	1.43	1.52
4	3-D	84	ARG	CA-C	-7.58	1.43	1.52
2	1-B	272	SER	CA-C	-7.58	1.42	1.52
2	2-B	272	SER	CA-C	-7.58	1.42	1.52
2	3-B	272	SER	CA-C	-7.58	1.42	1.52
6	2-K	77	PHE	CA-C	-7.56	1.44	1.53
7	1-L	51	LYS	CA-C	-7.56	1.43	1.52
5	2-R	31	THR	N-CA	-7.56	1.37	1.46
7	2-L	51	LYS	CA-C	-7.56	1.43	1.52
7	3-L	51	LYS	CA-C	-7.56	1.43	1.52
5	1-F	73	ARG	CA-C	-7.55	1.43	1.52
5	2-F	73	ARG	CA-C	-7.55	1.43	1.52
5	1-M	89	ILE	CA-C	-7.55	1.43	1.52
5	2-M	89	ILE	CA-C	-7.55	1.43	1.52
5	3-M	89	ILE	CA-C	-7.55	1.43	1.52
1	2-A	23	TRP	CA-C	-7.54	1.43	1.52
1	3-A	23	TRP	CA-C	-7.54	1.43	1.52
7	1-L	112	ARG	CA-C	-7.54	1.43	1.52
7	2-L	112	ARG	CA-C	-7.54	1.43	1.52
7	3-L	112	ARG	CA-C	-7.54	1.43	1.52
3	1-C	691	HIS	CA-C	-7.52	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	691	HIS	CA-C	-7.52	1.43	1.52
3	3-C	691	HIS	CA-C	-7.52	1.43	1.52
4	1-D	64	LEU	CA-C	-7.51	1.43	1.52
4	2-D	64	LEU	CA-C	-7.51	1.43	1.52
4	3-D	64	LEU	CA-C	-7.51	1.43	1.52
5	2-R	37	LEU	N-CA	-7.51	1.37	1.46
3	1-C	222	VAL	N-CA	-7.50	1.37	1.46
3	2-C	222	VAL	N-CA	-7.50	1.37	1.46
7	1-L	101	LEU	N-CA	-7.50	1.37	1.46
7	2-L	101	LEU	N-CA	-7.50	1.37	1.46
7	3-L	101	LEU	N-CA	-7.50	1.37	1.46
5	1-R	69	GLY	CA-C	-7.50	1.45	1.52
5	2-R	69	GLY	CA-C	-7.50	1.45	1.52
5	1-R	108	GLN	CA-C	-7.49	1.43	1.52
5	2-R	108	GLN	CA-C	-7.49	1.43	1.52
5	3-R	108	GLN	CA-C	-7.49	1.43	1.52
3	1-C	495	VAL	N-CA	-7.49	1.37	1.46
3	2-C	495	VAL	N-CA	-7.49	1.37	1.46
3	3-C	495	VAL	N-CA	-7.49	1.37	1.46
5	1-R	153	TRP	CA-C	-7.48	1.43	1.52
7	1-Z	25	ARG	CA-C	-7.48	1.43	1.52
5	2-R	153	TRP	CA-C	-7.48	1.43	1.52
7	2-Z	25	ARG	CA-C	-7.48	1.43	1.52
5	3-R	153	TRP	CA-C	-7.48	1.43	1.52
7	3-Z	25	ARG	CA-C	-7.48	1.43	1.52
2	1-B	507	GLU	CA-C	-7.48	1.43	1.52
6	1-G	144	MET	CA-C	-7.48	1.43	1.52
6	2-G	144	MET	CA-C	-7.48	1.43	1.52
2	3-B	507	GLU	CA-C	-7.48	1.43	1.52
2	2-B	759	LEU	CA-C	-7.47	1.43	1.52
2	3-B	759	LEU	CA-C	-7.47	1.43	1.52
3	1-C	205	GLY	CA-C	-7.47	1.45	1.52
3	2-C	205	GLY	CA-C	-7.47	1.45	1.52
1	2-A	538	SER	CA-C	-7.46	1.42	1.52
1	3-A	538	SER	CA-C	-7.46	1.42	1.52
7	1-L	46	LYS	CA-C	-7.46	1.43	1.52
7	2-L	46	LYS	CA-C	-7.46	1.43	1.52
7	3-L	46	LYS	CA-C	-7.46	1.43	1.52
2	2-B	761	VAL	CA-C	-7.46	1.43	1.52
2	3-B	761	VAL	CA-C	-7.46	1.43	1.52
1	2-A	595	THR	N-CA	-7.46	1.35	1.45
1	3-A	595	THR	N-CA	-7.46	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-D	236	ASP	CA-C	-7.46	1.43	1.52
4	2-D	236	ASP	CA-C	-7.46	1.43	1.52
4	3-D	236	ASP	CA-C	-7.46	1.43	1.52
6	2-G	366	SER	CA-C	-7.44	1.43	1.52
5	2-R	42	VAL	C-N	7.44	1.43	1.33
2	1-B	452	LEU	CA-C	-7.44	1.43	1.52
2	3-B	452	LEU	CA-C	-7.44	1.43	1.52
3	1-C	202	LEU	CA-C	-7.43	1.43	1.52
6	1-G	108	SER	N-CA	-7.43	1.37	1.46
3	2-C	202	LEU	CA-C	-7.43	1.43	1.52
6	2-G	108	SER	N-CA	-7.43	1.37	1.46
5	1-M	169	GLY	CA-C	-7.43	1.44	1.52
5	2-M	169	GLY	CA-C	-7.43	1.44	1.52
5	3-M	169	GLY	CA-C	-7.43	1.44	1.52
2	1-B	303	LEU	CA-C	-7.43	1.43	1.52
2	2-B	303	LEU	CA-C	-7.43	1.43	1.52
2	3-B	303	LEU	CA-C	-7.43	1.43	1.52
2	1-B	341	LEU	CA-C	-7.42	1.42	1.52
2	2-B	341	LEU	CA-C	-7.42	1.42	1.52
2	3-B	341	LEU	CA-C	-7.42	1.42	1.52
6	2-K	215	ILE	N-CA	-7.42	1.37	1.46
7	2-Z	46	LYS	CA-C	-7.41	1.43	1.52
7	3-Z	46	LYS	CA-C	-7.41	1.43	1.52
6	1-G	255	ILE	CA-C	-7.41	1.43	1.52
5	1-R	98	SER	CA-C	-7.41	1.42	1.52
6	2-G	255	ILE	CA-C	-7.41	1.43	1.52
5	2-R	98	SER	CA-C	-7.41	1.42	1.52
5	3-R	98	SER	CA-C	-7.41	1.42	1.52
3	1-C	69	LYS	CA-C	-7.40	1.42	1.52
6	1-K	774	ALA	CA-C	-7.40	1.43	1.52
3	2-C	69	LYS	CA-C	-7.40	1.42	1.52
6	2-K	774	ALA	CA-C	-7.40	1.43	1.52
3	3-C	69	LYS	CA-C	-7.40	1.42	1.52
3	1-C	181	LEU	CA-C	-7.40	1.43	1.52
3	2-C	181	LEU	CA-C	-7.40	1.43	1.52
3	3-C	181	LEU	CA-C	-7.40	1.43	1.52
1	2-A	322	GLU	CA-C	-7.40	1.42	1.52
1	3-A	322	GLU	CA-C	-7.40	1.42	1.52
6	1-G	525	ARG	CA-C	-7.39	1.43	1.52
6	2-G	525	ARG	CA-C	-7.39	1.43	1.52
1	1-A	673	CYS	CA-C	-7.39	1.43	1.52
6	1-G	251	LEU	CA-C	-7.39	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	673	CYS	CA-C	-7.39	1.43	1.52
6	2-G	251	LEU	CA-C	-7.39	1.43	1.52
1	3-A	673	CYS	CA-C	-7.39	1.43	1.52
2	2-B	745	ALA	CA-C	-7.38	1.43	1.52
2	3-B	745	ALA	CA-C	-7.38	1.43	1.52
6	2-G	774	ALA	CA-C	-7.38	1.43	1.52
6	2-K	121	ARG	N-CA	-7.38	1.37	1.46
6	1-K	707	TYR	CA-C	-7.35	1.43	1.52
6	2-K	707	TYR	CA-C	-7.35	1.43	1.52
6	3-K	707	TYR	CA-C	-7.35	1.43	1.52
2	1-B	125	GLN	CA-C	-7.34	1.42	1.52
2	2-B	125	GLN	CA-C	-7.34	1.42	1.52
2	3-B	125	GLN	CA-C	-7.34	1.42	1.52
3	1-C	276	CYS	CA-C	-7.34	1.43	1.52
7	1-Z	91	MET	CA-C	-7.34	1.43	1.52
3	2-C	276	CYS	CA-C	-7.34	1.43	1.52
5	2-R	26	ASP	N-CA	-7.34	1.37	1.46
7	2-Z	91	MET	CA-C	-7.34	1.43	1.52
6	1-G	80	ASN	CA-C	-7.33	1.43	1.52
6	2-G	80	ASN	CA-C	-7.33	1.43	1.52
6	1-G	675	GLU	CA-C	-7.33	1.43	1.52
6	2-G	675	GLU	CA-C	-7.33	1.43	1.52
6	1-G	177	TRP	CA-C	-7.33	1.42	1.52
5	1-M	74	ILE	CA-C	-7.33	1.43	1.52
6	2-G	177	TRP	CA-C	-7.33	1.42	1.52
5	2-M	74	ILE	CA-C	-7.33	1.43	1.52
5	3-M	74	ILE	CA-C	-7.33	1.43	1.52
6	1-K	675	GLU	CA-C	-7.33	1.43	1.52
6	2-K	107	SER	N-CA	-7.33	1.37	1.46
6	2-K	219	THR	CA-C	-7.33	1.43	1.52
6	2-K	675	GLU	CA-C	-7.33	1.43	1.52
3	1-C	155	ASN	CA-C	-7.32	1.43	1.52
3	2-C	155	ASN	CA-C	-7.32	1.43	1.52
3	3-C	155	ASN	CA-C	-7.32	1.43	1.52
6	1-K	36	GLU	CA-C	-7.32	1.43	1.52
6	2-K	36	GLU	CA-C	-7.32	1.43	1.52
3	1-C	450	TYR	CA-C	-7.32	1.43	1.52
3	1-C	563	LEU	CA-C	-7.32	1.43	1.52
3	2-C	450	TYR	CA-C	-7.32	1.43	1.52
3	2-C	563	LEU	CA-C	-7.32	1.43	1.52
3	3-C	450	TYR	CA-C	-7.32	1.43	1.52
3	3-C	563	LEU	CA-C	-7.32	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	81	ILE	CA-C	-7.31	1.44	1.52
3	2-C	81	ILE	CA-C	-7.31	1.44	1.52
3	3-C	81	ILE	CA-C	-7.31	1.44	1.52
6	2-K	106	THR	CA-C	-7.31	1.43	1.52
6	1-G	611	GLU	CA-C	-7.31	1.43	1.52
6	2-G	611	GLU	CA-C	-7.31	1.43	1.52
3	1-C	575	LEU	CA-C	-7.30	1.44	1.52
3	2-C	575	LEU	CA-C	-7.30	1.44	1.52
3	3-C	575	LEU	CA-C	-7.30	1.44	1.52
6	1-G	182	GLN	CA-C	-7.29	1.43	1.52
6	2-G	182	GLN	CA-C	-7.29	1.43	1.52
1	1-A	543	TYR	N-CA	-7.29	1.36	1.45
6	1-G	707	TYR	CA-C	-7.29	1.43	1.52
1	2-A	543	TYR	N-CA	-7.29	1.36	1.45
6	2-G	707	TYR	CA-C	-7.29	1.43	1.52
1	3-A	543	TYR	N-CA	-7.29	1.36	1.45
1	2-A	683	LEU	N-CA	-7.29	1.37	1.46
1	3-A	683	LEU	N-CA	-7.29	1.37	1.46
5	2-R	64	THR	CA-C	-7.28	1.43	1.52
3	1-C	717	GLU	N-CA	-7.28	1.37	1.46
3	2-C	717	GLU	N-CA	-7.28	1.37	1.46
3	3-C	717	GLU	N-CA	-7.28	1.37	1.46
2	1-B	461	PHE	N-CA	-7.28	1.37	1.46
6	1-G	471	LYS	CA-C	-7.28	1.43	1.52
6	2-G	471	LYS	CA-C	-7.28	1.43	1.52
2	3-B	461	PHE	N-CA	-7.28	1.37	1.46
4	1-D	100	ASN	CA-C	-7.28	1.43	1.52
4	2-D	100	ASN	CA-C	-7.28	1.43	1.52
4	3-D	100	ASN	CA-C	-7.28	1.43	1.52
6	1-G	93	LYS	CA-C	-7.27	1.42	1.52
6	2-G	93	LYS	CA-C	-7.27	1.42	1.52
7	1-L	121	LEU	CA-C	-7.26	1.43	1.52
7	2-L	121	LEU	CA-C	-7.26	1.43	1.52
7	3-L	121	LEU	CA-C	-7.26	1.43	1.52
4	1-D	94	CYS	CA-C	-7.25	1.43	1.52
4	2-D	94	CYS	CA-C	-7.25	1.43	1.52
4	3-D	94	CYS	CA-C	-7.25	1.43	1.52
6	2-K	89	TYR	CA-C	-7.25	1.43	1.52
2	1-B	406	SER	CA-C	-7.25	1.42	1.52
6	1-G	148	ILE	CA-C	-7.25	1.43	1.52
6	2-G	148	ILE	CA-C	-7.25	1.43	1.52
2	3-B	406	SER	CA-C	-7.25	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	88	CYS	CA-C	-7.24	1.43	1.52
6	2-G	88	CYS	CA-C	-7.24	1.43	1.52
7	1-Z	77	PHE	CA-C	-7.24	1.44	1.52
7	2-Z	77	PHE	CA-C	-7.24	1.44	1.52
6	1-K	611	GLU	CA-C	-7.23	1.43	1.52
6	2-K	611	GLU	CA-C	-7.23	1.43	1.52
1	2-A	427	ALA	CA-C	-7.23	1.44	1.52
1	3-A	427	ALA	CA-C	-7.23	1.44	1.52
1	1-A	551	TYR	CA-C	-7.22	1.43	1.52
1	2-A	551	TYR	CA-C	-7.22	1.43	1.52
1	3-A	551	TYR	CA-C	-7.22	1.43	1.52
5	2-R	36	LYS	N-CA	-7.22	1.37	1.46
2	1-B	182	GLU	CA-C	-7.22	1.43	1.52
2	2-B	182	GLU	CA-C	-7.22	1.43	1.52
2	3-B	182	GLU	CA-C	-7.22	1.43	1.52
5	1-M	128	GLN	CA-C	-7.22	1.42	1.52
5	2-M	128	GLN	CA-C	-7.22	1.42	1.52
5	3-M	128	GLN	CA-C	-7.22	1.42	1.52
3	1-C	260	THR	CA-C	-7.22	1.43	1.53
3	2-C	260	THR	CA-C	-7.22	1.43	1.53
1	2-A	603	LEU	CA-C	-7.21	1.43	1.52
1	3-A	603	LEU	CA-C	-7.21	1.43	1.52
2	2-B	771	CYS	N-CA	-7.21	1.36	1.46
2	3-B	771	CYS	N-CA	-7.21	1.36	1.46
1	1-A	472	ILE	CA-C	-7.21	1.43	1.52
6	1-G	179	ASN	CA-C	-7.21	1.43	1.52
6	1-G	845	ARG	CA-C	-7.21	1.43	1.52
1	2-A	472	ILE	CA-C	-7.21	1.43	1.52
6	2-G	179	ASN	CA-C	-7.21	1.43	1.52
6	2-G	845	ARG	CA-C	-7.21	1.43	1.52
1	3-A	472	ILE	CA-C	-7.21	1.43	1.52
6	3-G	845	ARG	CA-C	-7.21	1.43	1.52
6	1-G	750	GLU	CA-C	-7.20	1.44	1.52
6	2-G	750	GLU	CA-C	-7.20	1.44	1.52
7	1-L	93	VAL	N-CA	-7.20	1.37	1.46
7	2-L	93	VAL	N-CA	-7.20	1.37	1.46
7	3-L	93	VAL	N-CA	-7.20	1.37	1.46
7	1-L	91	MET	CA-C	-7.20	1.43	1.52
7	2-L	91	MET	CA-C	-7.20	1.43	1.52
7	3-L	91	MET	CA-C	-7.20	1.43	1.52
3	1-C	641	PRO	CA-C	-7.20	1.41	1.52
3	2-C	641	PRO	CA-C	-7.20	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	641	PRO	CA-C	-7.20	1.41	1.52
6	1-G	174	VAL	N-CA	-7.19	1.37	1.46
6	2-G	174	VAL	N-CA	-7.19	1.37	1.46
6	2-K	70	PHE	CA-C	-7.19	1.43	1.52
1	2-A	35	LEU	CA-C	-7.19	1.44	1.52
1	3-A	35	LEU	CA-C	-7.19	1.44	1.52
3	1-C	316	TRP	CA-C	-7.19	1.43	1.52
6	1-G	306	ALA	CA-C	-7.19	1.43	1.52
3	2-C	316	TRP	CA-C	-7.19	1.43	1.52
6	2-G	306	ALA	CA-C	-7.19	1.43	1.52
3	3-C	316	TRP	CA-C	-7.19	1.43	1.52
2	2-B	804	VAL	N-CA	-7.19	1.37	1.46
2	3-B	804	VAL	N-CA	-7.19	1.37	1.46
5	1-F	77	LEU	CA-C	-7.18	1.44	1.52
5	1-R	155	ILE	N-CA	-7.18	1.37	1.46
5	2-F	77	LEU	CA-C	-7.18	1.44	1.52
5	2-R	155	ILE	N-CA	-7.18	1.37	1.46
5	3-R	155	ILE	N-CA	-7.18	1.37	1.46
4	1-D	80	LEU	CA-C	-7.18	1.43	1.52
5	1-F	149	ARG	CA-C	-7.18	1.43	1.52
4	2-D	80	LEU	CA-C	-7.18	1.43	1.52
5	2-F	149	ARG	CA-C	-7.18	1.43	1.52
4	3-D	80	LEU	CA-C	-7.18	1.43	1.52
5	1-M	36	LYS	CA-C	-7.18	1.43	1.52
5	2-M	36	LYS	CA-C	-7.18	1.43	1.52
1	3-A	766	GLY	CA-C	-7.18	1.41	1.51
5	3-M	36	LYS	CA-C	-7.18	1.43	1.52
2	1-B	310	ASN	CA-C	-7.17	1.43	1.52
2	2-B	310	ASN	CA-C	-7.17	1.43	1.52
2	3-B	310	ASN	CA-C	-7.17	1.43	1.52
7	1-L	95	ASN	N-CA	-7.17	1.37	1.46
7	2-L	95	ASN	N-CA	-7.17	1.37	1.46
7	3-L	95	ASN	N-CA	-7.17	1.37	1.46
3	1-C	315	ILE	CA-C	-7.16	1.44	1.52
3	2-C	315	ILE	CA-C	-7.16	1.44	1.52
3	3-C	315	ILE	CA-C	-7.16	1.44	1.52
1	1-A	244	THR	N-CA	-7.16	1.37	1.46
1	3-A	244	THR	N-CA	-7.16	1.37	1.46
6	1-K	845	ARG	CA-C	-7.16	1.44	1.52
6	2-K	845	ARG	CA-C	-7.16	1.44	1.52
6	3-K	845	ARG	CA-C	-7.16	1.44	1.52
2	1-B	400	ARG	CA-C	-7.16	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	400	ARG	CA-C	-7.16	1.43	1.52
7	2-Z	45	GLU	CA-C	-7.15	1.43	1.52
7	3-Z	45	GLU	CA-C	-7.15	1.43	1.52
2	1-B	363	VAL	N-CA	-7.15	1.38	1.46
3	1-C	776	ASN	CA-C	-7.15	1.43	1.52
2	2-B	363	VAL	N-CA	-7.15	1.38	1.46
3	2-C	776	ASN	CA-C	-7.15	1.43	1.52
2	3-B	363	VAL	N-CA	-7.15	1.38	1.46
3	3-C	776	ASN	CA-C	-7.15	1.43	1.52
5	1-R	171	GLU	N-CA	-7.14	1.38	1.46
5	3-R	171	GLU	N-CA	-7.14	1.38	1.46
6	2-K	218	PHE	CA-C	-7.14	1.42	1.52
3	1-C	215	ASP	CA-C	-7.14	1.44	1.52
3	2-C	215	ASP	CA-C	-7.14	1.44	1.52
6	1-K	309	ARG	CA-C	-7.14	1.44	1.52
5	1-M	46	ILE	CA-C	-7.14	1.47	1.53
6	2-K	309	ARG	CA-C	-7.14	1.44	1.52
5	2-M	46	ILE	CA-C	-7.14	1.47	1.53
5	3-M	46	ILE	CA-C	-7.14	1.47	1.53
7	1-Z	87	GLU	CA-C	-7.13	1.43	1.52
2	2-B	948	SER	CA-C	-7.13	1.43	1.52
7	2-Z	87	GLU	CA-C	-7.13	1.43	1.52
2	3-B	948	SER	CA-C	-7.13	1.43	1.52
2	1-B	227	CYS	CA-C	-7.13	1.43	1.52
2	2-B	227	CYS	CA-C	-7.13	1.43	1.52
2	2-B	837	ILE	N-CA	-7.13	1.37	1.46
2	3-B	227	CYS	CA-C	-7.13	1.43	1.52
2	3-B	837	ILE	N-CA	-7.13	1.37	1.46
6	1-G	460	GLY	CA-C	-7.12	1.43	1.51
6	2-G	460	GLY	CA-C	-7.12	1.43	1.51
5	2-R	36	LYS	CA-C	-7.12	1.43	1.52
2	2-B	817	ASN	CA-C	-7.12	1.43	1.52
2	3-B	817	ASN	CA-C	-7.12	1.43	1.52
5	1-M	153	TRP	CA-C	-7.11	1.44	1.52
5	2-M	153	TRP	CA-C	-7.11	1.44	1.52
5	3-M	153	TRP	CA-C	-7.11	1.44	1.52
6	2-K	143	TYR	CA-C	-7.11	1.43	1.52
6	1-K	263	HIS	CA-C	-7.10	1.45	1.53
6	2-K	263	HIS	CA-C	-7.10	1.45	1.53
2	2-B	800	ILE	CA-C	-7.10	1.44	1.52
2	3-B	800	ILE	CA-C	-7.10	1.44	1.52
6	1-K	750	GLU	CA-C	-7.09	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-K	750	GLU	CA-C	-7.09	1.44	1.52
2	1-B	370	GLU	CA-C	-7.09	1.43	1.52
2	2-B	370	GLU	CA-C	-7.09	1.43	1.52
2	3-B	370	GLU	CA-C	-7.09	1.43	1.52
3	1-C	367	VAL	N-CA	-7.09	1.37	1.46
6	1-K	268	TYR	CA-C	-7.09	1.43	1.52
6	2-K	268	TYR	CA-C	-7.09	1.43	1.52
3	3-C	367	VAL	N-CA	-7.09	1.37	1.46
5	1-M	29	GLY	CA-C	-7.09	1.42	1.51
5	2-M	29	GLY	CA-C	-7.09	1.42	1.51
5	3-M	29	GLY	CA-C	-7.09	1.42	1.51
5	1-F	60	ASN	CA-C	-7.08	1.43	1.52
1	2-A	21	ARG	N-CA	-7.08	1.41	1.46
2	2-B	943	ARG	CA-C	-7.08	1.44	1.52
5	2-F	60	ASN	CA-C	-7.08	1.43	1.52
1	3-A	21	ARG	N-CA	-7.08	1.41	1.46
2	3-B	943	ARG	CA-C	-7.08	1.44	1.52
5	1-R	85	THR	CA-C	-7.07	1.43	1.52
5	2-R	85	THR	CA-C	-7.07	1.43	1.52
1	1-A	578	VAL	CA-C	-7.07	1.44	1.52
1	2-A	578	VAL	CA-C	-7.07	1.44	1.52
1	3-A	578	VAL	CA-C	-7.07	1.44	1.52
2	1-B	435	VAL	CA-C	-7.06	1.44	1.52
2	3-B	435	VAL	CA-C	-7.06	1.44	1.52
5	1-F	166	LEU	CA-C	-7.06	1.43	1.52
5	2-F	166	LEU	CA-C	-7.06	1.43	1.52
5	2-R	43	ILE	CA-C	7.05	1.61	1.52
3	1-C	567	ILE	CA-C	-7.05	1.47	1.53
3	2-C	567	ILE	CA-C	-7.05	1.47	1.53
3	3-C	567	ILE	CA-C	-7.05	1.47	1.53
3	1-C	543	LEU	CA-C	-7.04	1.44	1.52
3	2-C	543	LEU	CA-C	-7.04	1.44	1.52
3	3-C	543	LEU	CA-C	-7.04	1.44	1.52
3	1-C	327	LEU	CA-C	-7.04	1.43	1.52
3	1-C	471	SER	CA-C	-7.04	1.43	1.53
3	2-C	327	LEU	CA-C	-7.04	1.43	1.52
3	2-C	471	SER	CA-C	-7.04	1.43	1.53
3	3-C	327	LEU	CA-C	-7.04	1.43	1.52
3	3-C	471	SER	CA-C	-7.04	1.43	1.53
1	2-A	66	PHE	CA-C	-7.04	1.44	1.52
6	1-G	284	GLU	CA-C	-7.03	1.43	1.52
6	2-G	284	GLU	CA-C	-7.03	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-D	61	MET	N-CA	-7.03	1.38	1.46
4	2-D	61	MET	N-CA	-7.03	1.38	1.46
4	3-D	61	MET	N-CA	-7.03	1.38	1.46
6	1-G	397	LEU	CA-C	-7.02	1.43	1.52
7	1-Z	102	SER	N-CA	-7.02	1.38	1.46
6	2-G	397	LEU	CA-C	-7.02	1.43	1.52
7	2-Z	102	SER	N-CA	-7.02	1.38	1.46
5	1-M	77	LEU	CA-C	-7.02	1.43	1.52
5	2-M	77	LEU	CA-C	-7.02	1.43	1.52
5	3-M	77	LEU	CA-C	-7.02	1.43	1.52
7	2-Z	27	PHE	CA-C	-7.02	1.43	1.52
7	3-Z	27	PHE	CA-C	-7.02	1.43	1.52
2	1-B	181	PHE	CA-C	-7.01	1.43	1.52
2	2-B	181	PHE	CA-C	-7.01	1.43	1.52
2	3-B	181	PHE	CA-C	-7.01	1.43	1.52
3	1-C	840	LYS	CA-C	-7.01	1.44	1.52
6	1-G	522	ASN	CA-C	-7.01	1.43	1.52
3	2-C	840	LYS	CA-C	-7.01	1.44	1.52
6	2-G	522	ASN	CA-C	-7.01	1.43	1.52
3	3-C	840	LYS	CA-C	-7.01	1.44	1.52
5	1-R	111	LEU	N-CA	-7.00	1.37	1.46
5	2-R	111	LEU	N-CA	-7.00	1.37	1.46
5	3-R	111	LEU	N-CA	-7.00	1.37	1.46
3	1-C	407	GLU	CA-C	-7.00	1.43	1.52
3	2-C	407	GLU	CA-C	-7.00	1.43	1.52
3	3-C	407	GLU	CA-C	-7.00	1.43	1.52
4	1-D	57	VAL	CA-C	-7.00	1.44	1.52
4	2-D	57	VAL	CA-C	-7.00	1.44	1.52
4	3-D	57	VAL	CA-C	-7.00	1.44	1.52
7	1-L	122	PHE	CA-C	-7.00	1.44	1.52
7	2-L	122	PHE	CA-C	-7.00	1.44	1.52
7	3-L	122	PHE	CA-C	-7.00	1.44	1.52
6	1-G	72	ALA	CA-C	-6.99	1.44	1.52
6	2-G	72	ALA	CA-C	-6.99	1.44	1.52
7	1-Z	18	ILE	CA-C	-6.99	1.43	1.52
7	2-Z	18	ILE	CA-C	-6.99	1.43	1.52
7	3-Z	18	ILE	CA-C	-6.99	1.43	1.52
2	1-B	381	LYS	N-CA	-6.99	1.38	1.46
6	1-G	347	THR	CA-C	-6.99	1.43	1.52
6	2-G	347	THR	CA-C	-6.99	1.43	1.52
1	1-A	672	ASN	CA-C	-6.99	1.43	1.52
5	1-F	167	TYR	N-CA	-6.99	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	672	ASN	CA-C	-6.99	1.43	1.52
5	2-F	167	TYR	N-CA	-6.99	1.37	1.46
1	3-A	672	ASN	CA-C	-6.99	1.43	1.52
3	1-C	165	ARG	CA-C	-6.98	1.43	1.52
3	1-C	188	VAL	CA-C	-6.98	1.43	1.52
3	2-C	165	ARG	CA-C	-6.98	1.43	1.52
3	2-C	188	VAL	CA-C	-6.98	1.43	1.52
3	3-C	165	ARG	CA-C	-6.98	1.43	1.52
3	3-C	188	VAL	CA-C	-6.98	1.43	1.52
2	1-B	261	ILE	CA-C	-6.98	1.44	1.52
2	2-B	261	ILE	CA-C	-6.98	1.44	1.52
2	3-B	261	ILE	CA-C	-6.98	1.44	1.52
7	1-Z	104	MET	CA-C	-6.98	1.44	1.52
7	1-L	123	LEU	CA-C	-6.98	1.43	1.52
7	2-Z	104	MET	CA-C	-6.98	1.44	1.52
7	2-L	123	LEU	CA-C	-6.98	1.43	1.52
7	3-L	123	LEU	CA-C	-6.98	1.43	1.52
3	1-C	257	HIS	N-CA	-6.97	1.37	1.46
5	1-F	53	VAL	CA-C	-6.97	1.44	1.52
3	2-C	257	HIS	N-CA	-6.97	1.37	1.46
5	2-F	53	VAL	CA-C	-6.97	1.44	1.52
7	2-Z	27	PHE	N-CA	-6.97	1.37	1.46
7	3-Z	27	PHE	N-CA	-6.97	1.37	1.46
2	1-B	437	GLU	CA-C	-6.97	1.43	1.52
2	3-B	437	GLU	CA-C	-6.97	1.43	1.52
3	1-C	190	CYS	CA-C	-6.96	1.44	1.52
3	2-C	190	CYS	CA-C	-6.96	1.44	1.52
3	3-C	190	CYS	CA-C	-6.96	1.44	1.52
3	1-C	534	PHE	N-CA	-6.96	1.37	1.46
3	2-C	534	PHE	N-CA	-6.96	1.37	1.46
3	3-C	534	PHE	N-CA	-6.96	1.37	1.46
6	1-G	255	ILE	N-CA	-6.96	1.38	1.46
6	2-G	255	ILE	N-CA	-6.96	1.38	1.46
1	1-A	243	ASP	N-CA	-6.96	1.37	1.46
1	3-A	243	ASP	N-CA	-6.96	1.37	1.46
2	1-B	371	LEU	CA-C	-6.95	1.44	1.52
2	2-B	371	LEU	CA-C	-6.95	1.44	1.52
2	3-B	371	LEU	CA-C	-6.95	1.44	1.52
3	1-C	15	SER	CA-C	-6.95	1.47	1.53
3	2-C	15	SER	CA-C	-6.95	1.47	1.53
6	2-K	79	SER	CA-C	-6.95	1.44	1.52
3	3-C	15	SER	CA-C	-6.95	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	526	ASP	CA-C	-6.95	1.43	1.52
6	2-G	526	ASP	CA-C	-6.95	1.43	1.52
2	2-B	850	CYS	CA-C	6.94	1.61	1.52
2	3-B	850	CYS	CA-C	6.94	1.61	1.52
6	1-G	390	TYR	N-CA	-6.94	1.40	1.46
6	2-G	390	TYR	N-CA	-6.94	1.40	1.46
6	1-K	825	THR	C-N	6.93	1.42	1.33
6	2-K	825	THR	C-N	6.93	1.42	1.33
2	1-B	340	ILE	N-CA	-6.93	1.38	1.46
2	2-B	340	ILE	N-CA	-6.93	1.38	1.46
7	1-Z	78	TYR	N-CA	-6.93	1.37	1.46
6	1-K	290	SER	CA-C	-6.93	1.44	1.52
7	2-Z	78	TYR	N-CA	-6.93	1.37	1.46
6	2-K	290	SER	CA-C	-6.93	1.44	1.52
2	1-B	399	VAL	N-CA	-6.92	1.38	1.46
2	3-B	399	VAL	N-CA	-6.92	1.38	1.46
3	1-C	493	GLU	CA-C	-6.92	1.43	1.52
3	2-C	493	GLU	CA-C	-6.92	1.43	1.52
3	3-C	493	GLU	CA-C	-6.92	1.43	1.52
2	1-B	409	PHE	CA-C	-6.92	1.44	1.52
2	3-B	409	PHE	CA-C	-6.92	1.44	1.52
6	1-G	248	ASP	N-CA	-6.92	1.37	1.46
6	2-G	248	ASP	N-CA	-6.92	1.37	1.46
1	3-A	757	LEU	CA-C	-6.91	1.43	1.52
3	1-C	439	LEU	CA-C	-6.90	1.43	1.52
3	2-C	439	LEU	CA-C	-6.90	1.43	1.52
3	1-C	716	ALA	CA-C	-6.89	1.43	1.52
6	1-G	825	THR	C-N	6.89	1.42	1.33
3	2-C	716	ALA	CA-C	-6.89	1.43	1.52
6	2-G	825	THR	C-N	6.89	1.42	1.33
3	3-C	716	ALA	CA-C	-6.89	1.43	1.52
6	3-G	825	THR	C-N	6.89	1.42	1.33
3	1-C	382	ALA	N-CA	-6.89	1.37	1.46
3	2-C	382	ALA	N-CA	-6.89	1.37	1.46
3	3-C	382	ALA	N-CA	-6.89	1.37	1.46
3	1-C	177	PRO	CA-C	-6.88	1.45	1.52
3	2-C	177	PRO	CA-C	-6.88	1.45	1.52
3	3-C	177	PRO	CA-C	-6.88	1.45	1.52
2	2-B	782	LYS	CA-C	-6.88	1.44	1.52
2	3-B	782	LYS	CA-C	-6.88	1.44	1.52
3	1-C	386	LYS	N-CA	-6.88	1.38	1.46
7	1-L	99	ASP	CA-C	-6.88	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	386	LYS	N-CA	-6.88	1.38	1.46
6	2-K	200	LEU	N-CA	-6.88	1.38	1.46
7	2-L	99	ASP	CA-C	-6.88	1.44	1.52
3	3-C	386	LYS	N-CA	-6.88	1.38	1.46
7	3-L	99	ASP	CA-C	-6.88	1.44	1.52
6	1-G	210	ALA	CA-C	-6.88	1.43	1.52
6	2-G	210	ALA	CA-C	-6.88	1.43	1.52
6	3-G	210	ALA	CA-C	-6.88	1.43	1.52
1	1-A	569	TYR	N-CA	-6.87	1.37	1.46
1	2-A	569	TYR	N-CA	-6.87	1.37	1.46
1	3-A	569	TYR	N-CA	-6.87	1.37	1.46
7	1-L	141	GLN	N-CA	-6.87	1.38	1.46
7	2-L	141	GLN	N-CA	-6.87	1.38	1.46
7	3-L	141	GLN	N-CA	-6.87	1.38	1.46
2	2-B	763	GLN	CA-C	-6.87	1.42	1.52
2	3-B	763	GLN	CA-C	-6.87	1.42	1.52
7	1-L	134	ILE	CA-C	-6.87	1.44	1.52
7	2-L	134	ILE	CA-C	-6.87	1.44	1.52
7	3-L	134	ILE	CA-C	-6.87	1.44	1.52
7	1-L	108	ASN	CA-C	-6.86	1.44	1.52
7	2-L	108	ASN	CA-C	-6.86	1.44	1.52
7	3-L	108	ASN	CA-C	-6.86	1.44	1.52
3	1-C	154	ASP	N-CA	-6.86	1.37	1.46
3	2-C	154	ASP	N-CA	-6.86	1.37	1.46
3	3-C	154	ASP	N-CA	-6.86	1.37	1.46
1	1-A	554	THR	CA-C	6.86	1.60	1.52
5	1-F	68	VAL	CA-C	-6.86	1.44	1.52
7	1-L	53	HIS	N-CA	-6.86	1.37	1.46
1	2-A	554	THR	CA-C	6.86	1.60	1.52
5	2-F	68	VAL	CA-C	-6.86	1.44	1.52
7	2-L	53	HIS	N-CA	-6.86	1.37	1.46
1	3-A	554	THR	CA-C	6.86	1.60	1.52
7	3-L	53	HIS	N-CA	-6.86	1.37	1.46
3	1-C	384	ARG	N-CA	-6.85	1.37	1.45
3	1-C	533	CYS	CA-C	-6.85	1.44	1.52
3	2-C	384	ARG	N-CA	-6.85	1.37	1.45
3	2-C	533	CYS	CA-C	-6.85	1.44	1.52
6	2-G	379	VAL	N-CA	-6.85	1.38	1.46
3	3-C	384	ARG	N-CA	-6.85	1.37	1.45
3	3-C	533	CYS	CA-C	-6.85	1.44	1.52
3	1-C	119	ASP	CA-C	-6.85	1.42	1.52
3	2-C	119	ASP	CA-C	-6.85	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	119	ASP	CA-C	-6.85	1.42	1.52
4	1-D	236	ASP	N-CA	-6.85	1.38	1.46
4	2-D	236	ASP	N-CA	-6.85	1.38	1.46
4	3-D	236	ASP	N-CA	-6.85	1.38	1.46
3	1-C	593	GLU	CA-C	-6.85	1.44	1.52
3	2-C	593	GLU	CA-C	-6.85	1.44	1.52
3	3-C	593	GLU	CA-C	-6.85	1.44	1.52
6	1-K	54	LEU	CA-C	-6.84	1.44	1.52
7	2-Z	69	TYR	N-CA	-6.84	1.37	1.45
6	2-K	54	LEU	CA-C	-6.84	1.44	1.52
6	1-G	239	GLN	N-CA	-6.84	1.38	1.46
6	1-G	680	GLN	CA-C	-6.84	1.43	1.52
6	2-G	239	GLN	N-CA	-6.84	1.38	1.46
6	2-G	680	GLN	CA-C	-6.84	1.43	1.52
3	1-C	347	ASP	CA-C	-6.84	1.43	1.53
4	1-D	100	ASN	N-CA	-6.84	1.38	1.46
3	2-C	347	ASP	CA-C	-6.84	1.43	1.53
4	2-D	100	ASN	N-CA	-6.84	1.38	1.46
3	3-C	347	ASP	CA-C	-6.84	1.43	1.53
4	3-D	100	ASN	N-CA	-6.84	1.38	1.46
3	1-C	138	PHE	CA-C	-6.83	1.44	1.52
3	1-C	263	LEU	CA-C	-6.83	1.44	1.52
5	1-M	70	GLY	CA-C	-6.83	1.42	1.51
5	1-M	88	VAL	CA-C	-6.83	1.43	1.52
1	2-A	630	GLN	CA-C	-6.83	1.42	1.52
3	2-C	138	PHE	CA-C	-6.83	1.44	1.52
3	2-C	263	LEU	CA-C	-6.83	1.44	1.52
5	2-M	70	GLY	CA-C	-6.83	1.42	1.51
5	2-M	88	VAL	CA-C	-6.83	1.43	1.52
1	3-A	630	GLN	CA-C	-6.83	1.42	1.52
3	3-C	138	PHE	CA-C	-6.83	1.44	1.52
5	3-M	70	GLY	CA-C	-6.83	1.42	1.51
5	3-M	88	VAL	CA-C	-6.83	1.43	1.52
7	1-L	104	MET	CA-C	-6.83	1.44	1.52
7	2-L	104	MET	CA-C	-6.83	1.44	1.52
7	3-L	104	MET	CA-C	-6.83	1.44	1.52
6	1-K	706	CYS	CA-C	-6.83	1.44	1.52
6	2-K	706	CYS	CA-C	-6.83	1.44	1.52
6	3-K	706	CYS	CA-C	-6.83	1.44	1.52
5	1-F	151	ARG	CA-C	-6.82	1.44	1.52
5	2-F	151	ARG	CA-C	-6.82	1.44	1.52
5	1-M	168	GLU	CA-C	-6.82	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-M	168	GLU	CA-C	-6.82	1.43	1.52
5	3-M	168	GLU	CA-C	-6.82	1.43	1.52
3	1-C	477	VAL	CA-C	-6.81	1.44	1.52
4	1-D	27	THR	CA-C	-6.81	1.43	1.52
6	1-G	706	CYS	CA-C	-6.81	1.44	1.52
3	2-C	477	VAL	CA-C	-6.81	1.44	1.52
4	2-D	27	THR	CA-C	-6.81	1.43	1.52
6	2-G	706	CYS	CA-C	-6.81	1.44	1.52
3	3-C	477	VAL	CA-C	-6.81	1.44	1.52
4	3-D	27	THR	CA-C	-6.81	1.43	1.52
2	1-B	378	GLU	N-CA	-6.81	1.38	1.46
2	1-B	416	VAL	CA-C	-6.81	1.44	1.52
2	2-B	163	HIS	CA-C	-6.81	1.44	1.52
2	2-B	378	GLU	N-CA	-6.81	1.38	1.46
2	3-B	163	HIS	CA-C	-6.81	1.44	1.52
2	3-B	378	GLU	N-CA	-6.81	1.38	1.46
2	3-B	416	VAL	CA-C	-6.81	1.44	1.52
1	2-A	629	LEU	CA-C	-6.81	1.43	1.52
1	3-A	629	LEU	CA-C	-6.81	1.43	1.52
3	1-C	202	LEU	N-CA	-6.80	1.37	1.45
3	2-C	202	LEU	N-CA	-6.80	1.37	1.45
6	1-K	680	GLN	CA-C	-6.80	1.44	1.52
6	2-K	234	ARG	C-N	-6.80	1.25	1.33
6	2-K	680	GLN	CA-C	-6.80	1.44	1.52
2	1-B	435	VAL	N-CA	-6.80	1.38	1.46
2	3-B	435	VAL	N-CA	-6.80	1.38	1.46
1	2-A	590	LEU	CA-C	-6.80	1.44	1.52
1	3-A	590	LEU	CA-C	-6.80	1.44	1.52
1	1-A	568	ILE	CA-C	-6.79	1.44	1.52
1	2-A	568	ILE	CA-C	-6.79	1.44	1.52
1	3-A	568	ILE	CA-C	-6.79	1.44	1.52
7	1-L	23	GLY	CA-C	-6.79	1.42	1.51
7	2-L	23	GLY	CA-C	-6.79	1.42	1.51
7	3-L	23	GLY	CA-C	-6.79	1.42	1.51
2	1-B	319	ARG	CA-C	-6.79	1.44	1.52
2	2-B	319	ARG	CA-C	-6.79	1.44	1.52
2	3-B	319	ARG	CA-C	-6.79	1.44	1.52
2	1-B	190	GLU	CA-C	-6.78	1.44	1.52
2	1-B	958	LYS	CA-C	-6.78	1.44	1.52
2	2-B	190	GLU	CA-C	-6.78	1.44	1.52
2	2-B	958	LYS	CA-C	-6.78	1.44	1.52
2	3-B	190	GLU	CA-C	-6.78	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	958	LYS	CA-C	-6.78	1.44	1.52
3	1-C	438	LEU	CA-C	-6.77	1.44	1.52
3	2-C	438	LEU	CA-C	-6.77	1.44	1.52
6	1-G	45	ALA	CA-C	-6.77	1.44	1.52
1	2-A	615	VAL	N-CA	-6.77	1.37	1.46
6	2-G	45	ALA	CA-C	-6.77	1.44	1.52
1	3-A	615	VAL	N-CA	-6.77	1.37	1.46
6	3-G	45	ALA	CA-C	-6.77	1.44	1.52
5	1-M	39	LEU	CA-C	-6.77	1.43	1.52
5	2-M	39	LEU	CA-C	-6.77	1.43	1.52
5	3-M	39	LEU	CA-C	-6.77	1.43	1.52
1	1-A	665	ALA	CA-C	-6.76	1.44	1.52
4	1-D	85	LEU	CA-C	-6.76	1.44	1.52
1	2-A	665	ALA	CA-C	-6.76	1.44	1.52
4	2-D	85	LEU	CA-C	-6.76	1.44	1.52
1	3-A	665	ALA	CA-C	-6.76	1.44	1.52
4	3-D	85	LEU	CA-C	-6.76	1.44	1.52
3	1-C	390	SER	CA-C	-6.76	1.44	1.52
3	2-C	390	SER	CA-C	-6.76	1.44	1.52
3	3-C	390	SER	CA-C	-6.76	1.44	1.52
1	2-A	202	GLU	CA-C	-6.75	1.44	1.52
2	2-B	755	VAL	N-CA	-6.75	1.38	1.46
1	3-A	202	GLU	CA-C	-6.75	1.44	1.52
2	3-B	755	VAL	N-CA	-6.75	1.38	1.46
7	1-L	27	PHE	N-CA	-6.75	1.37	1.46
7	2-L	27	PHE	N-CA	-6.75	1.37	1.46
7	3-L	27	PHE	N-CA	-6.75	1.37	1.46
7	1-L	54	ARG	CA-C	-6.75	1.44	1.52
7	2-L	54	ARG	CA-C	-6.75	1.44	1.52
7	3-L	54	ARG	CA-C	-6.75	1.44	1.52
3	1-C	439	LEU	N-CA	-6.75	1.37	1.46
2	2-B	151	LEU	CA-C	-6.75	1.43	1.52
3	2-C	439	LEU	N-CA	-6.75	1.37	1.46
2	3-B	151	LEU	CA-C	-6.75	1.43	1.52
5	2-R	65	VAL	N-CA	-6.74	1.38	1.46
4	1-D	53	SER	CA-C	-6.73	1.43	1.53
4	2-D	53	SER	CA-C	-6.73	1.43	1.53
6	2-K	80	ASN	N-CA	-6.73	1.37	1.46
4	3-D	53	SER	CA-C	-6.73	1.43	1.53
1	2-A	77	VAL	CA-C	-6.73	1.44	1.52
1	3-A	77	VAL	CA-C	-6.73	1.44	1.52
3	1-C	403	TYR	N-CA	-6.73	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-F	64	THR	CA-C	-6.73	1.44	1.52
3	2-C	403	TYR	N-CA	-6.73	1.37	1.45
5	2-F	64	THR	CA-C	-6.73	1.44	1.52
3	3-C	403	TYR	N-CA	-6.73	1.37	1.45
6	2-G	860	SER	CA-C	-6.73	1.44	1.52
6	3-G	860	SER	CA-C	-6.73	1.44	1.52
3	1-C	554	ILE	CA-C	-6.72	1.44	1.52
3	2-C	554	ILE	CA-C	-6.72	1.44	1.52
3	3-C	554	ILE	CA-C	-6.72	1.44	1.52
7	1-L	31	TYR	N-CA	-6.72	1.38	1.46
7	2-L	31	TYR	N-CA	-6.72	1.38	1.46
7	3-L	31	TYR	N-CA	-6.72	1.38	1.46
1	2-A	336	VAL	CA-C	-6.71	1.44	1.52
1	2-A	632	LYS	CA-C	-6.71	1.43	1.52
1	3-A	336	VAL	CA-C	-6.71	1.44	1.52
1	3-A	632	LYS	CA-C	-6.71	1.43	1.52
7	1-L	134	ILE	N-CA	-6.71	1.38	1.46
7	2-L	134	ILE	N-CA	-6.71	1.38	1.46
7	3-L	134	ILE	N-CA	-6.71	1.38	1.46
6	1-G	356	SER	CA-C	-6.71	1.44	1.52
7	1-L	109	VAL	N-CA	-6.71	1.38	1.46
1	2-A	687	HIS	CA-C	-6.71	1.44	1.52
6	2-G	356	SER	CA-C	-6.71	1.44	1.52
7	2-L	109	VAL	N-CA	-6.71	1.38	1.46
1	3-A	687	HIS	CA-C	-6.71	1.44	1.52
7	3-L	109	VAL	N-CA	-6.71	1.38	1.46
2	1-B	437	GLU	N-CA	-6.71	1.38	1.46
7	1-L	143	VAL	N-CA	-6.71	1.38	1.46
7	2-Z	77	PHE	N-CA	-6.71	1.37	1.46
7	2-L	143	VAL	N-CA	-6.71	1.38	1.46
2	3-B	437	GLU	N-CA	-6.71	1.38	1.46
7	3-L	143	VAL	N-CA	-6.71	1.38	1.46
6	1-G	22	LEU	CA-C	-6.71	1.44	1.52
1	2-A	620	LEU	N-CA	-6.71	1.37	1.46
6	2-G	22	LEU	CA-C	-6.71	1.44	1.52
1	3-A	620	LEU	N-CA	-6.71	1.37	1.46
6	3-G	22	LEU	CA-C	-6.71	1.44	1.52
3	2-C	293	GLY	CA-C	-6.70	1.42	1.51
3	3-C	293	GLY	CA-C	-6.70	1.42	1.51
7	1-L	90	LEU	N-CA	-6.70	1.38	1.46
7	2-L	90	LEU	N-CA	-6.70	1.38	1.46
7	3-L	90	LEU	N-CA	-6.70	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1-A	672	ASN	N-CA	-6.69	1.37	1.46
6	1-G	236	ALA	CA-C	-6.69	1.43	1.52
1	2-A	672	ASN	N-CA	-6.69	1.37	1.46
6	2-G	236	ALA	CA-C	-6.69	1.43	1.52
1	3-A	672	ASN	N-CA	-6.69	1.37	1.46
3	1-C	368	VAL	CA-C	-6.69	1.44	1.52
3	3-C	368	VAL	CA-C	-6.69	1.44	1.52
3	1-C	478	CYS	CA-C	-6.68	1.44	1.52
3	2-C	478	CYS	CA-C	-6.68	1.44	1.52
3	3-C	478	CYS	CA-C	-6.68	1.44	1.52
2	1-B	407	VAL	CA-C	-6.68	1.44	1.52
2	3-B	407	VAL	CA-C	-6.68	1.44	1.52
1	2-A	342	ARG	CA-C	-6.68	1.43	1.52
1	3-A	342	ARG	CA-C	-6.68	1.43	1.52
6	1-G	436	LEU	CA-C	-6.67	1.44	1.52
6	2-G	436	LEU	CA-C	-6.67	1.44	1.52
6	1-K	304	ARG	N-CA	-6.67	1.38	1.46
1	2-A	628	TYR	CA-C	-6.67	1.43	1.52
6	2-K	304	ARG	N-CA	-6.67	1.38	1.46
1	3-A	628	TYR	CA-C	-6.67	1.43	1.52
2	1-B	964	LYS	CA-C	-6.67	1.44	1.53
2	2-B	964	LYS	CA-C	-6.67	1.44	1.53
2	3-B	964	LYS	CA-C	-6.67	1.44	1.53
2	1-B	469	ILE	CA-C	-6.67	1.44	1.52
2	3-B	469	ILE	CA-C	-6.67	1.44	1.52
4	1-D	60	PRO	CA-C	-6.67	1.44	1.52
4	2-D	60	PRO	CA-C	-6.67	1.44	1.52
4	3-D	60	PRO	CA-C	-6.67	1.44	1.52
6	1-G	175	LYS	N-CA	-6.66	1.38	1.46
6	2-G	175	LYS	N-CA	-6.66	1.38	1.46
3	1-C	455	THR	CA-C	-6.66	1.43	1.52
3	2-C	455	THR	CA-C	-6.66	1.43	1.52
3	3-C	455	THR	CA-C	-6.66	1.43	1.52
6	1-K	255	ILE	CA-C	-6.65	1.44	1.52
6	2-K	255	ILE	CA-C	-6.65	1.44	1.52
3	1-C	244	ILE	N-CA	-6.65	1.38	1.46
6	1-G	233	ILE	N-CA	-6.65	1.38	1.46
3	2-C	244	ILE	N-CA	-6.65	1.38	1.46
6	2-G	233	ILE	N-CA	-6.65	1.38	1.46
1	3-A	305	LEU	CA-C	-6.65	1.44	1.52
6	3-G	233	ILE	N-CA	-6.65	1.38	1.46
6	1-G	176	ARG	CA-C	-6.65	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-G	176	ARG	CA-C	-6.65	1.43	1.52
7	1-L	104	MET	N-CA	-6.64	1.38	1.46
2	2-B	752	TYR	CA-C	-6.64	1.43	1.52
7	2-L	104	MET	N-CA	-6.64	1.38	1.46
2	3-B	752	TYR	CA-C	-6.64	1.43	1.52
7	3-L	104	MET	N-CA	-6.64	1.38	1.46
6	1-G	623	PHE	CA-C	-6.64	1.43	1.52
6	1-K	860	SER	CA-C	-6.64	1.44	1.52
2	2-B	850	CYS	N-CA	6.64	1.54	1.46
6	2-G	623	PHE	CA-C	-6.64	1.43	1.52
6	2-G	783	PHE	CA-C	-6.64	1.44	1.52
6	2-K	860	SER	CA-C	-6.64	1.44	1.52
2	3-B	850	CYS	N-CA	6.64	1.54	1.46
6	3-K	860	SER	CA-C	-6.64	1.44	1.52
6	1-G	259	LEU	N-CA	-6.64	1.38	1.46
6	2-G	259	LEU	N-CA	-6.64	1.38	1.46
1	1-A	569	TYR	CA-C	-6.64	1.44	1.52
1	2-A	569	TYR	CA-C	-6.64	1.44	1.52
1	3-A	569	TYR	CA-C	-6.64	1.44	1.52
3	1-C	476	LEU	CA-C	-6.64	1.44	1.52
3	2-C	476	LEU	CA-C	-6.64	1.44	1.52
3	3-C	476	LEU	CA-C	-6.64	1.44	1.52
3	2-C	293	GLY	N-CA	-6.63	1.39	1.45
3	3-C	293	GLY	N-CA	-6.63	1.39	1.45
2	1-B	363	VAL	CA-C	-6.63	1.45	1.53
2	2-B	363	VAL	CA-C	-6.63	1.45	1.53
2	3-B	363	VAL	CA-C	-6.63	1.45	1.53
3	1-C	495	VAL	CA-C	-6.63	1.44	1.52
3	2-C	495	VAL	CA-C	-6.63	1.44	1.52
3	3-C	495	VAL	CA-C	-6.63	1.44	1.52
6	1-K	623	PHE	CA-C	-6.63	1.43	1.52
6	2-K	623	PHE	CA-C	-6.63	1.43	1.52
1	1-A	465	LEU	N-CA	-6.62	1.37	1.46
1	2-A	465	LEU	N-CA	-6.62	1.37	1.46
1	3-A	465	LEU	N-CA	-6.62	1.37	1.46
6	1-K	307	ALA	N-CA	-6.62	1.38	1.46
6	2-K	307	ALA	N-CA	-6.62	1.38	1.46
2	1-B	475	TRP	CA-C	-6.62	1.44	1.52
3	1-C	418	PHE	CA-C	-6.62	1.44	1.53
3	2-C	418	PHE	CA-C	-6.62	1.44	1.53
2	3-B	475	TRP	CA-C	-6.62	1.44	1.52
3	3-C	418	PHE	CA-C	-6.62	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-K	731	THR	N-CA	-6.61	1.38	1.46
7	2-Z	134	ILE	N-CA	-6.61	1.38	1.46
6	2-K	731	THR	N-CA	-6.61	1.38	1.46
6	3-K	731	THR	N-CA	-6.61	1.38	1.46
6	1-G	145	LYS	CA-C	-6.61	1.44	1.52
6	2-G	145	LYS	CA-C	-6.61	1.44	1.52
6	1-G	358	ASP	CA-C	-6.60	1.44	1.52
6	2-G	358	ASP	CA-C	-6.60	1.44	1.52
6	2-K	110	THR	CA-C	-6.60	1.44	1.52
3	1-C	257	HIS	CA-C	-6.60	1.44	1.52
3	2-C	257	HIS	CA-C	-6.60	1.44	1.52
4	1-D	148	ARG	CA-C	-6.60	1.44	1.52
4	2-D	148	ARG	CA-C	-6.60	1.44	1.52
4	3-D	148	ARG	CA-C	-6.60	1.44	1.52
2	1-B	338	MET	CA-C	-6.60	1.44	1.52
2	2-B	338	MET	CA-C	-6.60	1.44	1.52
2	2-B	744	GLU	CA-C	-6.59	1.44	1.52
2	3-B	744	GLU	CA-C	-6.59	1.44	1.52
6	1-G	731	THR	N-CA	-6.59	1.38	1.46
1	2-A	597	PHE	CA-C	-6.59	1.44	1.52
6	2-G	731	THR	N-CA	-6.59	1.38	1.46
1	3-A	597	PHE	CA-C	-6.59	1.44	1.52
2	1-B	402	LEU	CA-C	-6.59	1.44	1.52
3	1-C	272	GLU	N-CA	-6.59	1.37	1.46
3	1-C	432	SER	CA-C	-6.59	1.44	1.52
3	2-C	272	GLU	N-CA	-6.59	1.37	1.46
3	2-C	432	SER	CA-C	-6.59	1.44	1.52
2	3-B	402	LEU	CA-C	-6.59	1.44	1.52
6	1-G	119	ASN	N-CA	-6.58	1.38	1.46
6	2-G	119	ASN	N-CA	-6.58	1.38	1.46
7	2-Z	140	GLN	CA-C	-6.58	1.44	1.52
2	1-B	89	ILE	CA-C	-6.57	1.44	1.52
2	2-B	89	ILE	CA-C	-6.57	1.44	1.52
2	3-B	89	ILE	CA-C	-6.57	1.44	1.52
6	1-K	266	VAL	CA-C	-6.57	1.44	1.52
6	2-K	266	VAL	CA-C	-6.57	1.44	1.52
2	2-B	894	THR	C-N	6.57	1.41	1.33
2	3-B	894	THR	C-N	6.57	1.41	1.33
1	2-A	699	ASN	CA-C	-6.57	1.44	1.52
1	3-A	699	ASN	CA-C	-6.57	1.44	1.52
3	1-C	243	ILE	CA-C	-6.57	1.44	1.52
5	1-M	54	GLU	CA-C	-6.57	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	243	ILE	CA-C	-6.57	1.44	1.52
5	2-M	54	GLU	CA-C	-6.57	1.44	1.52
5	3-M	54	GLU	CA-C	-6.57	1.44	1.52
5	1-M	41	GLU	CA-C	-6.56	1.44	1.52
5	2-M	41	GLU	CA-C	-6.56	1.44	1.52
5	3-M	41	GLU	CA-C	-6.56	1.44	1.52
2	1-B	415	ASN	CA-C	-6.56	1.44	1.52
3	1-C	232	VAL	CA-C	-6.56	1.44	1.52
6	1-G	107	SER	N-CA	-6.56	1.38	1.46
3	2-C	232	VAL	CA-C	-6.56	1.44	1.52
6	2-G	107	SER	N-CA	-6.56	1.38	1.46
6	2-K	63	THR	CA-C	-6.56	1.44	1.52
2	3-B	415	ASN	CA-C	-6.56	1.44	1.52
1	1-A	661	ALA	N-CA	-6.55	1.38	1.46
1	2-A	661	ALA	N-CA	-6.55	1.38	1.46
1	3-A	661	ALA	N-CA	-6.55	1.38	1.46
7	1-L	47	ASN	CA-C	-6.55	1.44	1.52
7	2-L	47	ASN	CA-C	-6.55	1.44	1.52
7	3-L	47	ASN	CA-C	-6.55	1.44	1.52
2	1-B	859	TRP	CA-C	-6.55	1.44	1.52
4	1-D	65	TYR	CA-C	-6.55	1.44	1.52
7	1-L	62	LEU	CA-C	-6.55	1.44	1.52
2	2-B	859	TRP	CA-C	-6.55	1.44	1.52
4	2-D	65	TYR	CA-C	-6.55	1.44	1.52
7	2-L	62	LEU	CA-C	-6.55	1.44	1.52
2	3-B	859	TRP	CA-C	-6.55	1.44	1.52
4	3-D	65	TYR	CA-C	-6.55	1.44	1.52
7	3-L	62	LEU	CA-C	-6.55	1.44	1.52
2	1-B	376	LYS	N-CA	-6.55	1.38	1.46
2	2-B	376	LYS	N-CA	-6.55	1.38	1.46
6	2-K	181	ALA	CA-C	-6.55	1.44	1.52
2	3-B	376	LYS	N-CA	-6.55	1.38	1.46
4	1-D	84	ARG	N-CA	-6.55	1.38	1.46
4	2-D	84	ARG	N-CA	-6.55	1.38	1.46
4	3-D	84	ARG	N-CA	-6.55	1.38	1.46
3	1-C	376	ILE	N-CA	-6.54	1.38	1.46
3	3-C	376	ILE	N-CA	-6.54	1.38	1.46
6	1-G	237	SER	N-CA	-6.54	1.38	1.46
6	2-G	237	SER	N-CA	-6.54	1.38	1.46
5	1-M	22	MET	CA-C	-6.54	1.44	1.52
5	2-M	22	MET	CA-C	-6.54	1.44	1.52
5	3-M	22	MET	CA-C	-6.54	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	69	LYS	N-CA	-6.54	1.37	1.46
3	2-C	69	LYS	N-CA	-6.54	1.37	1.46
6	2-K	201	TYR	N-CA	-6.54	1.38	1.46
3	3-C	69	LYS	N-CA	-6.54	1.37	1.46
2	1-B	392	ASP	CA-C	-6.53	1.44	1.52
1	2-A	286	THR	CA-C	-6.53	1.44	1.52
1	3-A	286	THR	CA-C	-6.53	1.44	1.52
2	3-B	392	ASP	CA-C	-6.53	1.44	1.52
1	2-A	619	LYS	CA-C	-6.53	1.44	1.52
1	3-A	619	LYS	CA-C	-6.53	1.44	1.52
3	1-C	441	VAL	CA-C	-6.51	1.44	1.52
6	1-K	783	PHE	CA-C	-6.51	1.44	1.52
3	2-C	441	VAL	CA-C	-6.51	1.44	1.52
6	2-K	783	PHE	CA-C	-6.51	1.44	1.52
6	1-G	54	LEU	CA-C	-6.50	1.44	1.52
6	2-G	54	LEU	CA-C	-6.50	1.44	1.52
4	1-D	105	HIS	CA-C	-6.50	1.44	1.52
4	2-D	105	HIS	CA-C	-6.50	1.44	1.52
4	3-D	105	HIS	CA-C	-6.50	1.44	1.52
5	1-F	124	PHE	CA-C	-6.50	1.44	1.52
5	2-F	124	PHE	CA-C	-6.50	1.44	1.52
6	1-G	84	LEU	N-CA	-6.50	1.38	1.46
6	2-G	84	LEU	N-CA	-6.50	1.38	1.46
3	1-C	571	ASN	N-CA	-6.50	1.37	1.46
3	2-C	571	ASN	N-CA	-6.50	1.37	1.46
3	3-C	571	ASN	N-CA	-6.50	1.37	1.46
3	1-C	261	TYR	CA-C	-6.49	1.43	1.53
3	2-C	261	TYR	CA-C	-6.49	1.43	1.53
1	1-A	266	SER	CA-C	-6.49	1.45	1.52
1	2-A	266	SER	CA-C	-6.49	1.45	1.52
2	2-B	818	ILE	N-CA	-6.49	1.38	1.46
1	3-A	266	SER	CA-C	-6.49	1.45	1.52
2	3-B	818	ILE	N-CA	-6.49	1.38	1.46
6	2-K	177	TRP	CA-C	-6.49	1.41	1.52
2	2-B	750	ASN	CA-C	-6.49	1.45	1.52
2	2-B	754	ILE	CA-C	-6.49	1.44	1.52
2	3-B	750	ASN	CA-C	-6.49	1.45	1.52
2	3-B	754	ILE	CA-C	-6.49	1.44	1.52
1	2-A	688	GLN	CA-C	-6.48	1.44	1.52
1	3-A	688	GLN	CA-C	-6.48	1.44	1.52
3	1-C	669	LYS	CA-C	-6.48	1.44	1.52
7	1-L	11	TYR	CA-C	-6.48	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	669	LYS	CA-C	-6.48	1.44	1.52
7	2-L	11	TYR	CA-C	-6.48	1.44	1.52
3	3-C	669	LYS	CA-C	-6.48	1.44	1.52
7	3-L	11	TYR	CA-C	-6.48	1.44	1.52
1	2-A	610	GLU	CA-C	-6.48	1.44	1.52
2	2-B	760	VAL	N-CA	-6.48	1.38	1.46
1	3-A	610	GLU	CA-C	-6.48	1.44	1.52
2	3-B	760	VAL	N-CA	-6.48	1.38	1.46
3	1-C	546	TYR	N-CA	-6.47	1.38	1.46
6	1-G	167	LEU	CA-C	-6.47	1.43	1.52
7	1-Z	25	ARG	N-CA	-6.47	1.38	1.46
3	2-C	546	TYR	N-CA	-6.47	1.38	1.46
6	2-G	167	LEU	CA-C	-6.47	1.43	1.52
7	2-Z	25	ARG	N-CA	-6.47	1.38	1.46
3	3-C	546	TYR	N-CA	-6.47	1.38	1.46
7	3-Z	25	ARG	N-CA	-6.47	1.38	1.46
5	2-R	54	GLU	CA-C	-6.47	1.44	1.52
3	1-C	765	GLN	CA-C	-6.47	1.43	1.52
7	1-Z	15	ALA	N-CA	-6.47	1.37	1.46
3	2-C	765	GLN	CA-C	-6.47	1.43	1.52
7	2-Z	15	ALA	N-CA	-6.47	1.37	1.46
3	3-C	765	GLN	CA-C	-6.47	1.43	1.52
7	3-Z	15	ALA	N-CA	-6.47	1.37	1.46
6	1-K	648	ILE	CA-C	-6.46	1.44	1.52
6	2-K	648	ILE	CA-C	-6.46	1.44	1.52
6	1-G	91	THR	CA-C	-6.46	1.44	1.52
6	2-G	91	THR	CA-C	-6.46	1.44	1.52
7	2-Z	28	ALA	CA-C	-6.46	1.44	1.52
7	3-Z	28	ALA	CA-C	-6.46	1.44	1.52
2	1-B	370	GLU	N-CA	-6.46	1.38	1.46
2	2-B	370	GLU	N-CA	-6.46	1.38	1.46
2	3-B	370	GLU	N-CA	-6.46	1.38	1.46
6	2-K	139	ALA	CA-C	-6.46	1.44	1.52
3	1-C	547	VAL	N-CA	-6.45	1.38	1.46
3	2-C	547	VAL	N-CA	-6.45	1.38	1.46
3	3-C	547	VAL	N-CA	-6.45	1.38	1.46
3	2-C	458	ILE	CA-C	-6.45	1.43	1.52
3	3-C	458	ILE	CA-C	-6.45	1.43	1.52
7	2-Z	121	LEU	CA-C	-6.45	1.44	1.52
2	2-B	823	SER	CA-C	-6.44	1.44	1.52
2	3-B	823	SER	CA-C	-6.44	1.44	1.52
3	1-C	187	GLY	CA-C	-6.44	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	187	GLY	CA-C	-6.44	1.44	1.51
3	3-C	187	GLY	CA-C	-6.44	1.44	1.51
6	1-G	648	ILE	CA-C	-6.44	1.44	1.52
6	2-G	648	ILE	CA-C	-6.44	1.44	1.52
7	2-Z	46	LYS	N-CA	-6.43	1.38	1.46
7	3-Z	46	LYS	N-CA	-6.43	1.38	1.46
3	1-C	778	SER	N-CA	-6.43	1.38	1.46
6	1-G	249	SER	CA-C	-6.43	1.45	1.52
3	2-C	778	SER	N-CA	-6.43	1.38	1.46
6	2-G	249	SER	CA-C	-6.43	1.45	1.52
3	3-C	778	SER	N-CA	-6.43	1.38	1.46
1	1-A	664	ALA	CA-C	-6.43	1.44	1.52
3	1-C	574	TYR	N-CA	-6.43	1.38	1.46
1	2-A	664	ALA	CA-C	-6.43	1.44	1.52
3	2-C	574	TYR	N-CA	-6.43	1.38	1.46
1	3-A	664	ALA	CA-C	-6.43	1.44	1.52
3	3-C	574	TYR	N-CA	-6.43	1.38	1.46
3	1-C	668	GLN	CA-C	-6.43	1.44	1.52
2	2-B	854	GLU	CA-C	-6.43	1.44	1.52
3	2-C	668	GLN	CA-C	-6.43	1.44	1.52
2	3-B	854	GLU	CA-C	-6.43	1.44	1.52
3	3-C	668	GLN	CA-C	-6.43	1.44	1.52
1	2-A	36	TRP	CA-C	-6.42	1.44	1.52
1	3-A	36	TRP	CA-C	-6.42	1.44	1.52
1	1-A	245	CYS	CA-C	-6.42	1.44	1.52
1	3-A	245	CYS	CA-C	-6.42	1.44	1.52
3	1-C	115	LEU	CA-C	-6.42	1.45	1.52
3	2-C	115	LEU	CA-C	-6.42	1.45	1.52
3	3-C	115	LEU	CA-C	-6.42	1.45	1.52
1	1-A	518	LEU	CA-C	-6.41	1.44	1.52
1	2-A	518	LEU	CA-C	-6.41	1.44	1.52
1	3-A	518	LEU	CA-C	-6.41	1.44	1.52
3	1-C	642	GLU	CA-C	-6.41	1.44	1.52
3	2-C	642	GLU	CA-C	-6.41	1.44	1.52
3	3-C	642	GLU	CA-C	-6.41	1.44	1.52
7	1-L	145	ARG	CA-C	-6.41	1.44	1.52
7	2-L	145	ARG	CA-C	-6.41	1.44	1.52
7	3-L	145	ARG	CA-C	-6.41	1.44	1.52
5	1-M	154	PHE	N-CA	-6.41	1.38	1.46
5	2-M	154	PHE	N-CA	-6.41	1.38	1.46
5	3-M	154	PHE	N-CA	-6.41	1.38	1.46
2	1-B	472	GLY	CA-C	-6.40	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-D	102	ILE	N-CA	-6.40	1.38	1.46
6	1-G	144	MET	N-CA	-6.40	1.38	1.46
4	2-D	102	ILE	N-CA	-6.40	1.38	1.46
6	2-G	144	MET	N-CA	-6.40	1.38	1.46
2	3-B	472	GLY	CA-C	-6.40	1.45	1.52
4	3-D	102	ILE	N-CA	-6.40	1.38	1.46
1	1-A	573	VAL	CA-C	-6.40	1.44	1.52
5	1-F	19	ARG	CA-C	-6.40	1.45	1.52
6	1-K	242	GLU	CA-C	-6.40	1.44	1.52
5	1-M	23	VAL	CA-C	-6.40	1.45	1.52
1	2-A	573	VAL	CA-C	-6.40	1.44	1.52
5	2-F	19	ARG	CA-C	-6.40	1.45	1.52
6	2-K	209	LEU	CA-C	-6.40	1.44	1.52
6	2-K	242	GLU	CA-C	-6.40	1.44	1.52
5	2-M	23	VAL	CA-C	-6.40	1.45	1.52
1	3-A	573	VAL	CA-C	-6.40	1.44	1.52
5	3-M	23	VAL	CA-C	-6.40	1.45	1.52
3	1-C	519	GLU	CA-C	-6.40	1.44	1.52
3	3-C	519	GLU	CA-C	-6.40	1.44	1.52
2	2-B	844	TYR	CA-C	-6.40	1.44	1.52
2	3-B	844	TYR	CA-C	-6.40	1.44	1.52
2	1-B	122	LYS	CA-C	-6.39	1.44	1.52
6	1-G	487	VAL	CA-C	-6.39	1.44	1.52
6	1-G	840	ILE	N-CA	-6.39	1.38	1.46
2	2-B	122	LYS	CA-C	-6.39	1.44	1.52
6	2-G	487	VAL	CA-C	-6.39	1.44	1.52
6	2-G	840	ILE	N-CA	-6.39	1.38	1.46
2	3-B	122	LYS	CA-C	-6.39	1.44	1.52
6	3-G	840	ILE	N-CA	-6.39	1.38	1.46
3	1-C	378	TYR	N-CA	-6.39	1.38	1.45
3	3-C	378	TYR	N-CA	-6.39	1.38	1.45
7	2-Z	120	GLY	CA-C	-6.39	1.45	1.52
6	1-G	176	ARG	N-CA	-6.39	1.38	1.46
1	2-A	613	HIS	N-CA	-6.39	1.38	1.46
6	2-G	176	ARG	N-CA	-6.39	1.38	1.46
1	3-A	613	HIS	N-CA	-6.39	1.38	1.46
1	1-A	473	THR	N-CA	-6.38	1.38	1.46
3	1-C	231	ASN	CA-C	-6.38	1.44	1.52
1	2-A	134	HIS	N-CA	-6.38	1.38	1.46
1	2-A	473	THR	N-CA	-6.38	1.38	1.46
3	2-C	231	ASN	CA-C	-6.38	1.44	1.52
1	3-A	134	HIS	N-CA	-6.38	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3-A	473	THR	N-CA	-6.38	1.38	1.46
4	1-D	118	ALA	N-CA	-6.38	1.38	1.46
4	2-D	118	ALA	N-CA	-6.38	1.38	1.46
4	3-D	118	ALA	N-CA	-6.38	1.38	1.46
6	1-K	840	ILE	N-CA	-6.38	1.38	1.46
7	1-L	99	ASP	N-CA	-6.38	1.38	1.46
6	2-K	840	ILE	N-CA	-6.38	1.38	1.46
7	2-L	99	ASP	N-CA	-6.38	1.38	1.46
6	3-K	840	ILE	N-CA	-6.38	1.38	1.46
7	3-L	99	ASP	N-CA	-6.38	1.38	1.46
4	1-D	68	LEU	CA-C	-6.37	1.44	1.52
4	2-D	68	LEU	CA-C	-6.37	1.44	1.52
4	3-D	68	LEU	CA-C	-6.37	1.44	1.52
5	1-R	104	ARG	CA-C	-6.37	1.44	1.52
5	2-R	104	ARG	CA-C	-6.37	1.44	1.52
5	3-R	104	ARG	CA-C	-6.37	1.44	1.52
2	2-B	778	LEU	N-CA	-6.37	1.38	1.46
2	3-B	778	LEU	N-CA	-6.37	1.38	1.46
2	1-B	394	TYR	CA-C	-6.37	1.44	1.52
6	1-K	828	LEU	CA-C	-6.37	1.45	1.52
6	2-K	828	LEU	CA-C	-6.37	1.45	1.52
2	3-B	394	TYR	CA-C	-6.37	1.44	1.52
1	1-A	574	LYS	N-CA	-6.37	1.38	1.46
1	2-A	574	LYS	N-CA	-6.37	1.38	1.46
1	3-A	574	LYS	N-CA	-6.37	1.38	1.46
6	1-G	175	LYS	CA-C	-6.36	1.44	1.52
6	2-G	175	LYS	CA-C	-6.36	1.44	1.52
2	2-B	152	MET	N-CA	-6.36	1.40	1.46
2	3-B	152	MET	N-CA	-6.36	1.40	1.46
3	1-C	568	PRO	CA-C	-6.36	1.41	1.52
3	2-C	568	PRO	CA-C	-6.36	1.41	1.52
3	3-C	568	PRO	CA-C	-6.36	1.41	1.52
2	1-B	297	ALA	CA-C	-6.36	1.44	1.52
1	2-A	200	VAL	CA-C	-6.36	1.45	1.52
2	2-B	297	ALA	CA-C	-6.36	1.44	1.52
1	3-A	200	VAL	CA-C	-6.36	1.45	1.52
2	3-B	297	ALA	CA-C	-6.36	1.44	1.52
1	1-A	807	ASN	CA-C	-6.36	1.44	1.52
1	2-A	134	HIS	CA-C	-6.36	1.44	1.52
1	3-A	134	HIS	CA-C	-6.36	1.44	1.52
1	3-A	807	ASN	CA-C	-6.36	1.44	1.52
3	1-C	306	MET	CA-C	-6.35	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	306	MET	CA-C	-6.35	1.44	1.52
3	3-C	306	MET	CA-C	-6.35	1.44	1.52
5	1-F	103	ALA	CA-C	-6.35	1.44	1.52
7	1-L	46	LYS	N-CA	-6.35	1.38	1.46
5	2-F	103	ALA	CA-C	-6.35	1.44	1.52
6	2-K	167	LEU	N-CA	-6.35	1.38	1.46
7	2-L	46	LYS	N-CA	-6.35	1.38	1.46
7	3-L	46	LYS	N-CA	-6.35	1.38	1.46
3	1-C	446	GLY	CA-C	-6.35	1.46	1.52
2	2-B	763	GLN	N-CA	-6.35	1.38	1.46
3	2-C	446	GLY	CA-C	-6.35	1.46	1.52
2	3-B	763	GLN	N-CA	-6.35	1.38	1.46
3	3-C	446	GLY	CA-C	-6.35	1.46	1.52
6	1-G	149	VAL	N-CA	-6.35	1.39	1.46
6	2-G	149	VAL	N-CA	-6.35	1.39	1.46
6	1-K	612	ILE	CA-C	-6.35	1.44	1.52
6	2-K	612	ILE	CA-C	-6.35	1.44	1.52
3	1-C	9	ARG	N-CA	-6.34	1.38	1.46
3	2-C	9	ARG	N-CA	-6.34	1.38	1.46
3	3-C	9	ARG	N-CA	-6.34	1.38	1.46
3	1-C	391	ALA	CA-C	-6.34	1.44	1.53
3	2-C	391	ALA	CA-C	-6.34	1.44	1.53
6	2-K	65	GLU	N-CA	-6.34	1.38	1.46
3	3-C	391	ALA	CA-C	-6.34	1.44	1.53
5	1-R	168	GLU	CA-C	-6.34	1.44	1.52
7	1-Z	17	LEU	CA-C	-6.34	1.45	1.52
7	2-Z	17	LEU	CA-C	-6.34	1.45	1.52
5	3-R	168	GLU	CA-C	-6.34	1.44	1.52
7	3-Z	17	LEU	CA-C	-6.34	1.45	1.52
3	1-C	76	ALA	CA-C	-6.33	1.44	1.52
6	1-G	828	LEU	CA-C	-6.33	1.45	1.52
6	1-K	844	SER	CA-C	-6.33	1.45	1.52
3	2-C	76	ALA	CA-C	-6.33	1.44	1.52
6	2-G	828	LEU	CA-C	-6.33	1.45	1.52
5	2-R	55	THR	CA-C	-6.33	1.45	1.52
6	2-K	844	SER	CA-C	-6.33	1.45	1.52
3	3-C	76	ALA	CA-C	-6.33	1.44	1.52
6	3-G	828	LEU	CA-C	-6.33	1.45	1.52
6	3-K	844	SER	CA-C	-6.33	1.45	1.52
1	2-A	535	TRP	CA-C	-6.33	1.45	1.52
1	3-A	535	TRP	CA-C	-6.33	1.45	1.52
4	1-D	151	GLN	CA-C	-6.32	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	612	ILE	CA-C	-6.32	1.44	1.52
4	2-D	151	GLN	CA-C	-6.32	1.44	1.52
6	2-G	612	ILE	CA-C	-6.32	1.44	1.52
7	2-Z	142	VAL	N-CA	-6.32	1.39	1.46
4	3-D	151	GLN	CA-C	-6.32	1.44	1.52
4	1-D	239	VAL	CA-C	-6.32	1.45	1.52
6	1-G	844	SER	CA-C	-6.32	1.45	1.52
4	2-D	239	VAL	CA-C	-6.32	1.45	1.52
6	2-G	844	SER	CA-C	-6.32	1.45	1.52
4	3-D	239	VAL	CA-C	-6.32	1.45	1.52
6	3-G	844	SER	CA-C	-6.32	1.45	1.52
1	2-A	329	HIS	CA-C	-6.31	1.45	1.52
1	3-A	329	HIS	CA-C	-6.31	1.45	1.52
2	1-B	439	VAL	CA-C	-6.31	1.45	1.52
2	3-B	439	VAL	CA-C	-6.31	1.45	1.52
3	1-C	255	ILE	CA-C	-6.31	1.44	1.52
3	2-C	255	ILE	CA-C	-6.31	1.44	1.52
3	1-C	272	GLU	CA-C	-6.31	1.44	1.52
3	2-C	272	GLU	CA-C	-6.31	1.44	1.52
6	1-G	521	ASP	CA-C	-6.30	1.45	1.53
6	2-G	521	ASP	CA-C	-6.30	1.45	1.53
5	2-R	19	ARG	CA-C	-6.30	1.45	1.52
6	2-K	83	THR	CA-C	-6.30	1.44	1.52
4	1-D	14	LYS	N-CA	-6.30	1.38	1.46
4	2-D	14	LYS	N-CA	-6.30	1.38	1.46
1	2-A	274	ARG	CA-C	-6.29	1.45	1.52
1	2-A	346	PHE	CA-C	-6.29	1.44	1.52
1	3-A	274	ARG	CA-C	-6.29	1.45	1.52
1	3-A	346	PHE	CA-C	-6.29	1.44	1.52
3	1-C	761	TYR	CA-C	-6.29	1.45	1.53
3	2-C	761	TYR	CA-C	-6.29	1.45	1.53
3	3-C	761	TYR	CA-C	-6.29	1.45	1.53
2	1-B	438	PHE	CA-C	-6.29	1.44	1.52
2	3-B	438	PHE	CA-C	-6.29	1.44	1.52
5	2-R	32	THR	CA-C	-6.29	1.44	1.52
2	1-B	397	LEU	CA-C	-6.28	1.44	1.52
5	1-F	116	LEU	N-CA	-6.28	1.38	1.46
5	2-F	116	LEU	N-CA	-6.28	1.38	1.46
2	3-B	397	LEU	CA-C	-6.28	1.44	1.52
1	1-A	654	GLU	CA-C	-6.28	1.44	1.52
1	2-A	654	GLU	CA-C	-6.28	1.44	1.52
1	3-A	654	GLU	CA-C	-6.28	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	610	GLN	N-CA	-6.28	1.38	1.46
6	2-G	610	GLN	N-CA	-6.28	1.38	1.46
6	1-G	401	LEU	CA-C	-6.28	1.44	1.52
6	2-G	401	LEU	CA-C	-6.28	1.44	1.52
2	1-B	453	ILE	CA-C	-6.28	1.44	1.52
4	1-D	115	GLU	CA-C	-6.28	1.45	1.52
4	2-D	115	GLU	CA-C	-6.28	1.45	1.52
2	3-B	453	ILE	CA-C	-6.28	1.44	1.52
4	3-D	115	GLU	CA-C	-6.28	1.45	1.52
2	1-B	174	ILE	CA-C	-6.27	1.44	1.52
2	2-B	174	ILE	CA-C	-6.27	1.44	1.52
2	3-B	174	ILE	CA-C	-6.27	1.44	1.52
5	1-F	61	ILE	N-CA	-6.27	1.38	1.46
5	2-F	61	ILE	N-CA	-6.27	1.38	1.46
4	1-D	99	GLU	CA-C	-6.27	1.44	1.52
4	2-D	99	GLU	CA-C	-6.27	1.44	1.52
4	3-D	99	GLU	CA-C	-6.27	1.44	1.52
3	1-C	588	LEU	CA-C	-6.27	1.44	1.52
6	1-G	398	MET	CA-C	-6.27	1.44	1.52
3	2-C	588	LEU	CA-C	-6.27	1.44	1.52
6	2-G	398	MET	CA-C	-6.27	1.44	1.52
3	3-C	588	LEU	CA-C	-6.27	1.44	1.52
1	2-A	644	ASP	CA-C	-6.26	1.44	1.52
1	3-A	644	ASP	CA-C	-6.26	1.44	1.52
2	1-B	411	ASP	CA-C	-6.26	1.47	1.53
2	1-B	414	ALA	CA-C	-6.26	1.44	1.52
5	1-M	78	TRP	CA-C	-6.26	1.43	1.52
5	2-M	78	TRP	CA-C	-6.26	1.43	1.52
2	3-B	411	ASP	CA-C	-6.26	1.47	1.53
2	3-B	414	ALA	CA-C	-6.26	1.44	1.52
5	3-M	78	TRP	CA-C	-6.26	1.43	1.52
1	1-A	487	LYS	CA-C	-6.26	1.45	1.52
1	2-A	487	LYS	CA-C	-6.26	1.45	1.52
5	2-R	39	LEU	CA-C	-6.26	1.44	1.52
1	3-A	487	LYS	CA-C	-6.26	1.45	1.52
3	1-C	711	MET	CA-C	-6.25	1.44	1.52
3	2-C	711	MET	CA-C	-6.25	1.44	1.52
3	3-C	711	MET	CA-C	-6.25	1.44	1.52
6	1-G	76	LEU	N-CA	-6.25	1.38	1.46
6	2-G	76	LEU	N-CA	-6.25	1.38	1.46
6	1-K	828	LEU	N-CA	-6.25	1.38	1.46
6	2-K	189	ASN	CA-C	-6.25	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-K	828	LEU	N-CA	-6.25	1.38	1.46
1	1-A	464	LEU	CA-C	-6.24	1.45	1.53
2	1-B	207	ASN	CA-C	-6.24	1.44	1.52
6	1-G	142	ARG	CA-C	-6.24	1.45	1.52
1	2-A	464	LEU	CA-C	-6.24	1.45	1.53
2	2-B	207	ASN	CA-C	-6.24	1.44	1.52
6	2-G	142	ARG	CA-C	-6.24	1.45	1.52
1	3-A	464	LEU	CA-C	-6.24	1.45	1.53
2	3-B	207	ASN	CA-C	-6.24	1.44	1.52
2	1-B	307	GLU	CA-C	-6.24	1.45	1.52
2	2-B	307	GLU	CA-C	-6.24	1.45	1.52
2	3-B	307	GLU	CA-C	-6.24	1.45	1.52
7	1-L	51	LYS	N-CA	-6.24	1.39	1.46
7	2-L	51	LYS	N-CA	-6.24	1.39	1.46
7	3-L	51	LYS	N-CA	-6.24	1.39	1.46
6	1-G	118	ASP	N-CA	-6.23	1.38	1.46
6	1-G	432	LYS	CA-C	-6.23	1.44	1.52
6	1-K	292	LEU	CA-C	-6.23	1.44	1.52
6	2-G	118	ASP	N-CA	-6.23	1.38	1.46
6	2-G	432	LYS	CA-C	-6.23	1.44	1.52
6	2-K	292	LEU	CA-C	-6.23	1.44	1.52
6	1-G	294	LEU	CA-C	-6.22	1.45	1.52
6	2-G	294	LEU	CA-C	-6.22	1.45	1.52
6	1-G	456	LEU	CA-C	-6.21	1.45	1.52
6	2-G	456	LEU	CA-C	-6.21	1.45	1.52
1	2-A	360	GLY	CA-C	-6.21	1.43	1.51
1	3-A	360	GLY	CA-C	-6.21	1.43	1.51
6	1-G	80	ASN	N-CA	-6.21	1.39	1.46
1	2-A	343	GLN	CA-C	-6.21	1.44	1.52
6	2-G	80	ASN	N-CA	-6.21	1.39	1.46
1	3-A	343	GLN	CA-C	-6.21	1.44	1.52
5	2-R	43	ILE	C-N	6.21	1.42	1.33
7	2-Z	26	LEU	CA-C	-6.21	1.44	1.52
7	3-Z	26	LEU	CA-C	-6.21	1.44	1.52
6	1-G	73	MET	CA-C	-6.21	1.44	1.52
6	1-G	289	VAL	CA-C	-6.21	1.45	1.52
6	2-G	73	MET	CA-C	-6.21	1.44	1.52
6	2-G	289	VAL	CA-C	-6.21	1.45	1.52
4	1-D	117	VAL	N-CA	-6.21	1.38	1.46
5	1-R	86	GLU	N-CA	-6.21	1.38	1.46
6	1-K	252	PHE	N-CA	-6.21	1.38	1.46
4	2-D	117	VAL	N-CA	-6.21	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-R	86	GLU	N-CA	-6.21	1.38	1.46
6	2-K	252	PHE	N-CA	-6.21	1.38	1.46
4	3-D	117	VAL	N-CA	-6.21	1.38	1.46
7	1-Z	101	LEU	CA-C	-6.20	1.44	1.52
7	2-Z	101	LEU	CA-C	-6.20	1.44	1.52
7	2-Z	40	GLU	CA-C	-6.20	1.44	1.52
6	2-K	199	LEU	CA-C	-6.20	1.45	1.52
7	3-Z	40	GLU	CA-C	-6.20	1.44	1.52
6	1-K	610	GLN	N-CA	-6.20	1.38	1.46
2	2-B	941	HIS	N-CA	-6.20	1.38	1.46
6	2-K	610	GLN	N-CA	-6.20	1.38	1.46
2	3-B	941	HIS	N-CA	-6.20	1.38	1.46
2	1-B	135	THR	CA-C	-6.20	1.44	1.52
7	1-Z	89	MET	CA-C	-6.20	1.44	1.52
2	2-B	135	THR	CA-C	-6.20	1.44	1.52
7	2-Z	89	MET	CA-C	-6.20	1.44	1.52
6	2-K	116	LYS	CA-C	-6.20	1.44	1.52
2	3-B	135	THR	CA-C	-6.20	1.44	1.52
7	1-L	93	VAL	CA-C	-6.20	1.44	1.52
5	1-M	170	LEU	CA-C	-6.20	1.44	1.52
7	2-L	93	VAL	CA-C	-6.20	1.44	1.52
5	2-M	170	LEU	CA-C	-6.20	1.44	1.52
7	3-L	93	VAL	CA-C	-6.20	1.44	1.52
5	3-M	170	LEU	CA-C	-6.20	1.44	1.52
6	1-G	235	VAL	CA-C	-6.19	1.45	1.52
6	2-G	235	VAL	CA-C	-6.19	1.45	1.52
6	2-G	778	GLU	CA-C	-6.19	1.44	1.52
6	3-G	235	VAL	CA-C	-6.19	1.45	1.52
2	1-B	474	LEU	CA-C	-6.19	1.45	1.52
1	2-A	601	LEU	N-CA	-6.19	1.38	1.46
1	3-A	601	LEU	N-CA	-6.19	1.38	1.46
2	3-B	474	LEU	CA-C	-6.19	1.45	1.52
3	1-C	377	ILE	N-CA	-6.19	1.39	1.46
6	2-K	174	VAL	N-CA	-6.19	1.39	1.46
3	3-C	377	ILE	N-CA	-6.19	1.39	1.46
6	1-G	82	PRO	CA-C	-6.18	1.43	1.52
6	1-K	778	GLU	CA-C	-6.18	1.44	1.52
6	2-G	82	PRO	CA-C	-6.18	1.43	1.52
6	2-K	778	GLU	CA-C	-6.18	1.44	1.52
2	2-B	896	GLU	CA-C	-6.18	1.45	1.52
2	3-B	896	GLU	CA-C	-6.18	1.45	1.52
3	1-C	559	ARG	N-CA	-6.18	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	559	ARG	N-CA	-6.18	1.37	1.45
3	3-C	559	ARG	N-CA	-6.18	1.37	1.45
2	1-B	264	ILE	CA-C	-6.18	1.45	1.52
1	2-A	451	PRO	CA-C	-6.18	1.45	1.52
2	2-B	264	ILE	CA-C	-6.18	1.45	1.52
1	3-A	451	PRO	CA-C	-6.18	1.45	1.52
2	3-B	264	ILE	CA-C	-6.18	1.45	1.52
6	1-K	854	MET	CA-C	-6.17	1.44	1.52
6	2-K	854	MET	CA-C	-6.17	1.44	1.52
6	3-K	854	MET	CA-C	-6.17	1.44	1.52
2	1-B	298	GLN	CA-C	-6.17	1.45	1.52
2	1-B	858	MET	N-CA	-6.17	1.38	1.46
2	2-B	298	GLN	CA-C	-6.17	1.45	1.52
2	2-B	858	MET	N-CA	-6.17	1.38	1.46
2	3-B	298	GLN	CA-C	-6.17	1.45	1.52
2	3-B	858	MET	N-CA	-6.17	1.38	1.46
3	1-C	275	TRP	CA-C	-6.17	1.45	1.53
3	1-C	498	ALA	CA-C	-6.17	1.44	1.52
3	2-C	275	TRP	CA-C	-6.17	1.45	1.53
3	2-C	498	ALA	CA-C	-6.17	1.44	1.52
3	3-C	498	ALA	CA-C	-6.17	1.44	1.52
6	1-K	779	VAL	N-CA	-6.17	1.39	1.46
7	1-L	97	LEU	N-CA	-6.17	1.39	1.46
2	2-B	834	LEU	CA-C	-6.17	1.45	1.52
6	2-K	779	VAL	N-CA	-6.17	1.39	1.46
7	2-L	97	LEU	N-CA	-6.17	1.39	1.46
2	3-B	834	LEU	CA-C	-6.17	1.45	1.52
7	3-L	97	LEU	N-CA	-6.17	1.39	1.46
6	1-K	303	LEU	CA-C	-6.16	1.44	1.52
6	2-K	303	LEU	CA-C	-6.16	1.44	1.52
3	1-C	274	VAL	CA-C	-6.16	1.45	1.52
7	1-L	142	VAL	N-CA	-6.16	1.39	1.46
3	2-C	274	VAL	CA-C	-6.16	1.45	1.52
7	2-L	142	VAL	N-CA	-6.16	1.39	1.46
7	3-L	142	VAL	N-CA	-6.16	1.39	1.46
1	2-A	614	MET	CA-C	-6.16	1.44	1.52
6	2-G	854	MET	CA-C	-6.16	1.45	1.52
6	2-K	206	ASN	N-CA	-6.16	1.38	1.46
1	3-A	614	MET	CA-C	-6.16	1.44	1.52
6	3-G	854	MET	CA-C	-6.16	1.45	1.52
3	1-C	715	LEU	CA-C	-6.15	1.44	1.52
3	2-C	715	LEU	CA-C	-6.15	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-G	779	VAL	N-CA	-6.15	1.39	1.46
3	3-C	715	LEU	CA-C	-6.15	1.44	1.52
6	1-G	71	PHE	CA-C	-6.15	1.44	1.52
6	1-G	828	LEU	N-CA	-6.15	1.38	1.46
7	1-Z	14	LYS	CA-C	-6.15	1.45	1.52
6	2-G	71	PHE	CA-C	-6.15	1.44	1.52
6	2-G	828	LEU	N-CA	-6.15	1.38	1.46
7	2-Z	14	LYS	CA-C	-6.15	1.45	1.52
6	3-G	828	LEU	N-CA	-6.15	1.38	1.46
7	3-Z	14	LYS	CA-C	-6.15	1.45	1.52
5	1-F	26	ASP	CA-C	-6.15	1.44	1.52
5	1-R	126	ASN	CA-C	-6.15	1.44	1.53
5	2-F	26	ASP	CA-C	-6.15	1.44	1.52
5	2-R	126	ASN	CA-C	-6.15	1.44	1.53
5	3-R	126	ASN	CA-C	-6.15	1.44	1.53
3	1-C	586	SER	CA-C	-6.14	1.44	1.52
3	2-C	586	SER	CA-C	-6.14	1.44	1.52
3	3-C	586	SER	CA-C	-6.14	1.44	1.52
1	2-A	37	ASP	CA-C	-6.14	1.45	1.53
1	3-A	37	ASP	CA-C	-6.14	1.45	1.53
6	1-G	417	ILE	CA-C	-6.13	1.45	1.52
6	2-G	417	ILE	CA-C	-6.13	1.45	1.52
5	1-R	99	ARG	CA-C	-6.13	1.44	1.52
5	2-R	99	ARG	CA-C	-6.13	1.44	1.52
5	3-R	99	ARG	CA-C	-6.13	1.44	1.52
6	1-G	470	SER	CA-C	-6.13	1.44	1.52
6	2-G	470	SER	CA-C	-6.13	1.44	1.52
6	1-K	844	SER	N-CA	-6.12	1.39	1.46
6	2-K	844	SER	N-CA	-6.12	1.39	1.46
6	3-K	844	SER	N-CA	-6.12	1.39	1.46
6	1-G	473	ILE	CA-C	-6.12	1.45	1.52
5	1-R	108	GLN	N-CA	-6.12	1.39	1.46
6	2-G	473	ILE	CA-C	-6.12	1.45	1.52
5	2-R	108	GLN	N-CA	-6.12	1.39	1.46
5	3-R	108	GLN	N-CA	-6.12	1.39	1.46
3	1-C	775	GLU	CA-C	-6.12	1.44	1.52
6	1-G	307	ALA	CA-C	-6.12	1.44	1.52
3	2-C	775	GLU	CA-C	-6.12	1.44	1.52
6	2-G	307	ALA	CA-C	-6.12	1.44	1.52
3	3-C	775	GLU	CA-C	-6.12	1.44	1.52
2	1-B	212	LEU	CA-C	-6.12	1.45	1.52
2	2-B	212	LEU	CA-C	-6.12	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	212	LEU	CA-C	-6.12	1.45	1.52
3	1-C	352	GLU	N-CA	-6.11	1.38	1.46
3	2-C	352	GLU	N-CA	-6.11	1.38	1.46
3	3-C	352	GLU	N-CA	-6.11	1.38	1.46
2	1-B	259	ARG	CA-C	-6.11	1.44	1.52
1	2-A	10	ALA	CA-C	-6.11	1.44	1.52
2	2-B	259	ARG	CA-C	-6.11	1.44	1.52
1	3-A	10	ALA	CA-C	-6.11	1.44	1.52
2	3-B	259	ARG	CA-C	-6.11	1.44	1.52
6	1-G	348	LEU	N-CA	-6.11	1.38	1.46
7	1-L	50	ASN	N-CA	-6.11	1.39	1.46
6	2-G	348	LEU	N-CA	-6.11	1.38	1.46
7	2-L	50	ASN	N-CA	-6.11	1.39	1.46
7	3-L	50	ASN	N-CA	-6.11	1.39	1.46
3	1-C	417	ASN	CA-C	-6.11	1.44	1.53
3	2-C	417	ASN	CA-C	-6.11	1.44	1.53
3	3-C	417	ASN	CA-C	-6.11	1.44	1.53
7	2-Z	31	TYR	CA-C	-6.10	1.45	1.52
7	3-Z	31	TYR	CA-C	-6.10	1.45	1.52
1	1-A	542	ILE	CA-C	-6.10	1.45	1.52
1	2-A	542	ILE	CA-C	-6.10	1.45	1.52
1	3-A	542	ILE	CA-C	-6.10	1.45	1.52
6	1-G	484	HIS	N-CA	-6.10	1.38	1.46
6	2-G	484	HIS	N-CA	-6.10	1.38	1.46
2	1-B	473	ALA	CA-C	-6.10	1.45	1.52
5	1-F	110	MET	CA-C	-6.10	1.45	1.52
5	2-F	110	MET	CA-C	-6.10	1.45	1.52
2	3-B	473	ALA	CA-C	-6.10	1.45	1.52
5	1-M	48	THR	CA-C	-6.10	1.45	1.52
5	2-M	48	THR	CA-C	-6.10	1.45	1.52
5	3-M	48	THR	CA-C	-6.10	1.45	1.52
7	1-L	90	LEU	CA-C	-6.10	1.45	1.52
7	2-L	90	LEU	CA-C	-6.10	1.45	1.52
2	3-B	54	THR	CA-C	-6.10	1.44	1.52
7	3-L	90	LEU	CA-C	-6.10	1.45	1.52
3	1-C	264	GLU	N-CA	-6.09	1.38	1.46
6	1-G	252	PHE	N-CA	-6.09	1.39	1.46
3	2-C	264	GLU	N-CA	-6.09	1.38	1.46
6	2-G	252	PHE	N-CA	-6.09	1.39	1.46
5	2-R	26	ASP	CA-C	-6.09	1.45	1.52
6	1-G	169	CYS	N-CA	-6.09	1.39	1.46
2	2-B	818	ILE	CA-C	-6.09	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-G	169	CYS	N-CA	-6.09	1.39	1.46
2	3-B	818	ILE	CA-C	-6.09	1.45	1.52
6	1-G	670	ASN	C-N	6.09	1.41	1.33
6	2-G	670	ASN	C-N	6.09	1.41	1.33
6	1-G	67	THR	CA-C	-6.08	1.44	1.52
6	1-G	211	VAL	N-CA	-6.08	1.39	1.46
6	2-G	67	THR	CA-C	-6.08	1.44	1.52
6	2-G	211	VAL	N-CA	-6.08	1.39	1.46
6	3-G	211	VAL	N-CA	-6.08	1.39	1.46
2	1-B	117	CYS	CA-C	-6.08	1.44	1.52
2	2-B	117	CYS	CA-C	-6.08	1.44	1.52
2	3-B	117	CYS	CA-C	-6.08	1.44	1.52
6	2-K	109	LEU	N-CA	-6.08	1.38	1.46
6	2-K	152	VAL	N-CA	-6.08	1.42	1.46
2	3-B	55	GLU	CA-C	-6.08	1.45	1.52
3	1-C	454	ASN	CA-C	-6.07	1.44	1.52
5	1-F	102	GLU	N-CA	-6.07	1.38	1.46
2	2-B	78	ILE	N-CA	-6.07	1.39	1.46
2	2-B	139	LEU	N-CA	-6.07	1.38	1.46
3	2-C	454	ASN	CA-C	-6.07	1.44	1.52
5	2-F	102	GLU	N-CA	-6.07	1.38	1.46
6	2-K	167	LEU	CA-C	-6.07	1.44	1.52
2	3-B	78	ILE	N-CA	-6.07	1.39	1.46
2	3-B	139	LEU	N-CA	-6.07	1.38	1.46
3	3-C	454	ASN	CA-C	-6.07	1.44	1.52
3	1-C	358	ILE	N-CA	-6.07	1.39	1.46
3	3-C	358	ILE	N-CA	-6.07	1.39	1.46
1	1-A	244	THR	CA-C	-6.07	1.45	1.52
1	3-A	244	THR	CA-C	-6.07	1.45	1.52
2	2-B	155	ILE	CA-C	-6.07	1.45	1.52
2	3-B	155	ILE	CA-C	-6.07	1.45	1.52
7	1-L	77	PHE	N-CA	-6.07	1.38	1.46
7	2-L	77	PHE	N-CA	-6.07	1.38	1.46
7	3-L	77	PHE	N-CA	-6.07	1.38	1.46
2	1-B	377	LYS	CA-C	-6.06	1.44	1.52
4	1-D	54	VAL	N-CA	-6.06	1.39	1.46
6	1-G	141	GLU	CA-C	-6.06	1.44	1.52
1	2-A	599	PHE	CA-C	-6.06	1.45	1.52
2	2-B	377	LYS	CA-C	-6.06	1.44	1.52
4	2-D	54	VAL	N-CA	-6.06	1.39	1.46
6	2-G	141	GLU	CA-C	-6.06	1.44	1.52
1	3-A	599	PHE	CA-C	-6.06	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	377	LYS	CA-C	-6.06	1.44	1.52
4	3-D	54	VAL	N-CA	-6.06	1.39	1.46
6	1-G	529	THR	CA-C	-6.06	1.45	1.52
6	2-G	529	THR	CA-C	-6.06	1.45	1.52
3	1-C	5	LEU	CA-C	-6.05	1.45	1.52
3	2-C	5	LEU	CA-C	-6.05	1.45	1.52
6	2-K	191	MET	N-CA	-6.05	1.39	1.46
3	3-C	5	LEU	CA-C	-6.05	1.45	1.52
6	1-G	486	GLU	N-CA	-6.05	1.39	1.46
5	1-M	37	LEU	N-CA	-6.05	1.39	1.46
6	2-G	486	GLU	N-CA	-6.05	1.39	1.46
5	2-M	37	LEU	N-CA	-6.05	1.39	1.46
5	3-M	37	LEU	N-CA	-6.05	1.39	1.46
2	2-B	804	VAL	CA-C	-6.05	1.45	1.52
2	3-B	804	VAL	CA-C	-6.05	1.45	1.52
3	1-C	185	GLU	CA-C	-6.04	1.45	1.52
3	2-C	185	GLU	CA-C	-6.04	1.45	1.52
3	3-C	185	GLU	CA-C	-6.04	1.45	1.52
3	1-C	224	THR	N-CA	-6.04	1.38	1.46
3	2-C	224	THR	N-CA	-6.04	1.38	1.46
6	1-G	254	PHE	N-CA	-6.04	1.39	1.46
2	2-B	784	VAL	N-CA	-6.04	1.38	1.46
6	2-G	254	PHE	N-CA	-6.04	1.39	1.46
2	3-B	784	VAL	N-CA	-6.04	1.38	1.46
2	1-B	458	LEU	CA-C	-6.04	1.45	1.52
6	1-K	259	LEU	N-CA	-6.04	1.39	1.46
6	2-K	259	LEU	N-CA	-6.04	1.39	1.46
2	3-B	458	LEU	CA-C	-6.04	1.45	1.52
5	1-F	85	THR	CA-C	-6.03	1.44	1.53
1	2-A	283	GLY	CA-C	-6.03	1.43	1.51
5	2-F	85	THR	CA-C	-6.03	1.44	1.53
7	2-Z	66	THR	N-CA	-6.03	1.38	1.46
1	3-A	283	GLY	CA-C	-6.03	1.43	1.51
3	1-C	134	CYS	CA-C	-6.03	1.45	1.52
1	2-A	431	ARG	CA-C	-6.03	1.46	1.53
3	2-C	134	CYS	CA-C	-6.03	1.45	1.52
6	2-K	140	VAL	N-CA	-6.03	1.38	1.46
1	3-A	431	ARG	CA-C	-6.03	1.46	1.53
3	3-C	134	CYS	CA-C	-6.03	1.45	1.52
6	1-G	108	SER	CA-C	-6.03	1.45	1.52
6	2-G	108	SER	CA-C	-6.03	1.45	1.52
1	2-A	453	CYS	N-CA	-6.03	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3-A	453	CYS	N-CA	-6.03	1.39	1.46
2	1-B	406	SER	N-CA	-6.02	1.38	1.46
2	2-B	924	VAL	N-CA	-6.02	1.39	1.46
2	3-B	406	SER	N-CA	-6.02	1.38	1.46
2	3-B	924	VAL	N-CA	-6.02	1.39	1.46
6	1-G	46	HIS	CA-C	-6.02	1.45	1.52
6	2-G	46	HIS	CA-C	-6.02	1.45	1.52
3	1-C	131	LYS	CA-C	-6.02	1.44	1.52
3	1-C	312	GLY	CA-C	-6.02	1.43	1.51
3	1-C	719	ALA	CA-C	-6.02	1.45	1.52
3	2-C	131	LYS	CA-C	-6.02	1.44	1.52
3	2-C	312	GLY	CA-C	-6.02	1.43	1.51
3	2-C	719	ALA	CA-C	-6.02	1.45	1.52
3	3-C	131	LYS	CA-C	-6.02	1.44	1.52
3	3-C	312	GLY	CA-C	-6.02	1.43	1.51
3	3-C	719	ALA	CA-C	-6.02	1.45	1.52
6	1-G	844	SER	N-CA	-6.01	1.39	1.46
6	2-G	844	SER	N-CA	-6.01	1.39	1.46
6	3-G	844	SER	N-CA	-6.01	1.39	1.46
5	2-R	46	ILE	N-CA	-6.01	1.41	1.47
6	2-K	188	ASP	CA-C	-6.01	1.45	1.53
2	1-B	402	LEU	N-CA	-6.00	1.39	1.46
2	3-B	402	LEU	N-CA	-6.00	1.39	1.46
2	2-B	743	ALA	CA-C	-6.00	1.45	1.52
7	2-Z	125	VAL	CA-C	-6.00	1.45	1.52
2	3-B	743	ALA	CA-C	-6.00	1.45	1.52
2	1-B	392	ASP	N-CA	-6.00	1.39	1.46
2	3-B	392	ASP	N-CA	-6.00	1.39	1.46
4	1-D	83	LEU	CA-C	-5.99	1.45	1.52
4	2-D	83	LEU	CA-C	-5.99	1.45	1.52
4	3-D	83	LEU	CA-C	-5.99	1.45	1.52
1	2-A	628	TYR	N-CA	-5.99	1.38	1.46
1	3-A	628	TYR	N-CA	-5.99	1.38	1.46
2	1-B	398	LEU	N-CA	-5.99	1.39	1.46
2	1-B	459	GLU	N-CA	-5.99	1.39	1.46
6	1-G	136	MET	N-CA	-5.99	1.38	1.46
6	2-G	136	MET	N-CA	-5.99	1.38	1.46
2	3-B	398	LEU	N-CA	-5.99	1.39	1.46
2	3-B	459	GLU	N-CA	-5.99	1.39	1.46
1	2-A	648	ARG	CA-C	-5.99	1.45	1.52
1	3-A	648	ARG	CA-C	-5.99	1.45	1.52
2	2-B	764	THR	CA-C	-5.99	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	764	THR	CA-C	-5.99	1.44	1.52
3	1-C	499	GLN	CA-C	-5.98	1.45	1.52
3	2-C	499	GLN	CA-C	-5.98	1.45	1.52
3	3-C	499	GLN	CA-C	-5.98	1.45	1.52
6	1-K	857	THR	CA-C	-5.98	1.45	1.52
6	2-K	857	THR	CA-C	-5.98	1.45	1.52
6	3-K	857	THR	CA-C	-5.98	1.45	1.52
6	1-G	250	PRO	CA-C	-5.98	1.43	1.52
5	1-M	171	GLU	N-CA	-5.98	1.39	1.46
2	2-B	826	ALA	CA-C	-5.98	1.44	1.52
6	2-G	250	PRO	CA-C	-5.98	1.43	1.52
7	2-Z	141	GLN	N-CA	-5.98	1.39	1.46
5	2-M	171	GLU	N-CA	-5.98	1.39	1.46
2	3-B	826	ALA	CA-C	-5.98	1.44	1.52
5	3-M	171	GLU	N-CA	-5.98	1.39	1.46
6	1-G	75	LYS	N-CA	-5.98	1.38	1.46
6	2-G	75	LYS	N-CA	-5.98	1.38	1.46
6	1-K	670	ASN	C-N	5.97	1.41	1.33
2	2-B	839	ILE	CA-C	-5.97	1.45	1.52
6	2-K	670	ASN	C-N	5.97	1.41	1.33
2	3-B	839	ILE	CA-C	-5.97	1.45	1.52
1	1-A	464	LEU	N-CA	-5.97	1.41	1.46
1	2-A	464	LEU	N-CA	-5.97	1.41	1.46
5	2-R	28	ALA	CA-C	-5.97	1.45	1.52
1	3-A	464	LEU	N-CA	-5.97	1.41	1.46
6	1-G	151	LYS	CA-C	-5.97	1.44	1.52
6	2-G	151	LYS	CA-C	-5.97	1.44	1.52
6	2-G	864	LEU	N-CA	-5.97	1.40	1.46
6	3-G	864	LEU	N-CA	-5.97	1.40	1.46
1	1-A	722	ILE	CA-C	-5.97	1.45	1.52
3	1-C	472	ASP	N-CA	-5.97	1.39	1.46
3	1-C	590	SER	CA-C	-5.97	1.45	1.52
1	2-A	722	ILE	CA-C	-5.97	1.45	1.52
3	2-C	472	ASP	N-CA	-5.97	1.39	1.46
3	2-C	590	SER	CA-C	-5.97	1.45	1.52
1	3-A	722	ILE	CA-C	-5.97	1.45	1.52
3	3-C	472	ASP	N-CA	-5.97	1.39	1.46
3	3-C	590	SER	CA-C	-5.97	1.45	1.52
3	1-C	736	GLY	CA-C	-5.97	1.43	1.51
4	1-D	55	ARG	N-CA	-5.97	1.38	1.46
6	1-G	138	GLN	CA-C	-5.97	1.45	1.52
6	1-G	143	TYR	N-CA	-5.97	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	736	GLY	CA-C	-5.97	1.43	1.51
4	2-D	55	ARG	N-CA	-5.97	1.38	1.46
6	2-G	138	GLN	CA-C	-5.97	1.45	1.52
6	2-G	143	TYR	N-CA	-5.97	1.39	1.46
3	3-C	736	GLY	CA-C	-5.97	1.43	1.51
4	3-D	55	ARG	N-CA	-5.97	1.38	1.46
6	1-G	79	SER	CA-C	-5.97	1.44	1.53
6	2-G	79	SER	CA-C	-5.97	1.44	1.53
7	1-L	84	TYR	N-CA	-5.96	1.38	1.46
7	2-L	84	TYR	N-CA	-5.96	1.38	1.46
7	3-L	84	TYR	N-CA	-5.96	1.38	1.46
2	1-B	121	ARG	CA-C	-5.96	1.45	1.52
5	1-F	60	ASN	N-CA	-5.96	1.37	1.46
2	2-B	121	ARG	CA-C	-5.96	1.45	1.52
5	2-F	60	ASN	N-CA	-5.96	1.37	1.46
2	3-B	121	ARG	CA-C	-5.96	1.45	1.52
2	2-B	79	ARG	CA-C	-5.96	1.45	1.52
2	3-B	79	ARG	CA-C	-5.96	1.45	1.52
2	1-B	856	ARG	CA-C	-5.96	1.45	1.52
2	2-B	856	ARG	CA-C	-5.96	1.45	1.52
2	3-B	856	ARG	CA-C	-5.96	1.45	1.52
2	1-B	863	GLU	CA-C	-5.95	1.45	1.52
2	2-B	863	GLU	CA-C	-5.95	1.45	1.52
3	2-C	620	ARG	CA-C	-5.95	1.45	1.52
2	3-B	863	GLU	CA-C	-5.95	1.45	1.52
3	3-C	620	ARG	CA-C	-5.95	1.45	1.52
7	1-L	38	VAL	CA-C	-5.95	1.45	1.52
1	2-A	47	PHE	CA-C	-5.95	1.45	1.52
7	2-L	38	VAL	CA-C	-5.95	1.45	1.52
1	3-A	47	PHE	CA-C	-5.95	1.45	1.52
7	3-L	38	VAL	CA-C	-5.95	1.45	1.52
2	1-B	137	ARG	CA-C	-5.95	1.45	1.52
2	2-B	137	ARG	CA-C	-5.95	1.45	1.52
2	3-B	137	ARG	CA-C	-5.95	1.45	1.52
2	1-B	305	ILE	N-CA	-5.95	1.39	1.46
6	1-G	231	MET	CA-C	-5.95	1.45	1.52
2	2-B	305	ILE	N-CA	-5.95	1.39	1.46
6	2-G	231	MET	CA-C	-5.95	1.45	1.52
2	3-B	305	ILE	N-CA	-5.95	1.39	1.46
6	3-G	231	MET	CA-C	-5.95	1.45	1.52
1	1-A	246	ARG	CA-C	-5.95	1.45	1.52
2	1-B	405	CYS	CA-C	-5.95	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	539	GLN	CA-C	-5.95	1.44	1.52
6	2-G	539	GLN	CA-C	-5.95	1.44	1.52
1	3-A	246	ARG	CA-C	-5.95	1.45	1.52
2	3-B	405	CYS	CA-C	-5.95	1.45	1.52
2	1-B	357	GLN	CA-C	-5.94	1.45	1.52
2	2-B	357	GLN	CA-C	-5.94	1.45	1.52
2	3-B	357	GLN	CA-C	-5.94	1.45	1.52
1	1-A	267	ASN	N-CA	-5.94	1.38	1.45
6	1-G	292	LEU	N-CA	-5.94	1.39	1.46
1	2-A	267	ASN	N-CA	-5.94	1.38	1.45
6	2-G	292	LEU	N-CA	-5.94	1.39	1.46
1	3-A	267	ASN	N-CA	-5.94	1.38	1.45
3	2-C	618	ARG	CA-C	-5.93	1.45	1.52
6	2-K	179	ASN	N-CA	-5.93	1.39	1.46
3	3-C	618	ARG	CA-C	-5.93	1.45	1.52
1	1-A	544	THR	CA-C	-5.93	1.45	1.52
3	1-C	105	ILE	CA-C	-5.93	1.45	1.52
7	1-L	29	LYS	CA-C	-5.93	1.45	1.52
1	2-A	544	THR	CA-C	-5.93	1.45	1.52
3	2-C	105	ILE	CA-C	-5.93	1.45	1.52
7	2-L	29	LYS	CA-C	-5.93	1.45	1.52
1	3-A	544	THR	CA-C	-5.93	1.45	1.52
3	3-C	105	ILE	CA-C	-5.93	1.45	1.52
7	3-L	29	LYS	CA-C	-5.93	1.45	1.52
1	2-A	146	SER	CA-C	-5.93	1.44	1.52
1	3-A	146	SER	CA-C	-5.93	1.44	1.52
3	1-C	575	LEU	N-CA	-5.93	1.38	1.45
3	2-C	575	LEU	N-CA	-5.93	1.38	1.45
3	3-C	575	LEU	N-CA	-5.93	1.38	1.45
7	2-Z	143	VAL	CA-C	-5.93	1.45	1.52
6	2-G	857	THR	CA-C	-5.92	1.45	1.52
7	2-Z	37	SER	CA-C	-5.92	1.44	1.52
6	3-G	857	THR	CA-C	-5.92	1.45	1.52
7	3-Z	37	SER	CA-C	-5.92	1.44	1.52
1	2-A	680	VAL	N-CA	-5.92	1.39	1.46
1	3-A	680	VAL	N-CA	-5.92	1.39	1.46
3	1-C	562	TYR	CA-C	-5.92	1.45	1.52
6	1-K	52	LEU	CA-C	-5.92	1.45	1.52
2	2-B	845	ILE	CA-C	-5.92	1.45	1.52
3	2-C	562	TYR	CA-C	-5.92	1.45	1.52
6	2-K	52	LEU	CA-C	-5.92	1.45	1.52
2	3-B	845	ILE	CA-C	-5.92	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	562	TYR	CA-C	-5.92	1.45	1.52
1	1-A	254	CYS	CA-C	-5.92	1.45	1.52
2	1-B	467	VAL	CA-C	-5.92	1.45	1.52
6	2-K	174	VAL	CA-C	-5.92	1.45	1.52
1	3-A	254	CYS	CA-C	-5.92	1.45	1.52
2	3-B	467	VAL	CA-C	-5.92	1.45	1.52
2	1-B	388	HIS	CA-C	-5.92	1.45	1.52
3	1-C	81	ILE	N-CA	-5.92	1.39	1.46
3	2-C	81	ILE	N-CA	-5.92	1.39	1.46
3	3-C	81	ILE	N-CA	-5.92	1.39	1.46
6	1-G	215	ILE	N-CA	-5.91	1.39	1.46
6	2-G	215	ILE	N-CA	-5.91	1.39	1.46
6	3-G	215	ILE	N-CA	-5.91	1.39	1.46
3	2-C	809	GLU	CA-C	-5.91	1.45	1.52
7	2-Z	47	ASN	CA-C	-5.90	1.45	1.52
7	3-Z	47	ASN	CA-C	-5.90	1.45	1.52
2	1-B	100	VAL	CA-C	-5.90	1.46	1.52
2	2-B	100	VAL	CA-C	-5.90	1.46	1.52
2	3-B	100	VAL	CA-C	-5.90	1.46	1.52
5	1-F	67	ASP	CA-C	-5.90	1.45	1.52
5	2-F	67	ASP	CA-C	-5.90	1.45	1.52
1	2-A	36	TRP	N-CA	-5.90	1.38	1.46
1	3-A	36	TRP	N-CA	-5.90	1.38	1.46
2	1-B	123	ASP	CA-C	-5.89	1.45	1.52
6	1-K	732	VAL	N-CA	-5.89	1.39	1.46
2	2-B	123	ASP	CA-C	-5.89	1.45	1.52
6	2-K	732	VAL	N-CA	-5.89	1.39	1.46
2	3-B	123	ASP	CA-C	-5.89	1.45	1.52
6	3-K	732	VAL	N-CA	-5.89	1.39	1.46
3	1-C	236	SER	CA-C	-5.89	1.45	1.52
5	1-R	107	MET	N-CA	-5.89	1.38	1.46
2	2-B	834	LEU	N-CA	-5.89	1.38	1.45
3	2-C	236	SER	CA-C	-5.89	1.45	1.52
5	2-R	107	MET	N-CA	-5.89	1.38	1.46
2	3-B	834	LEU	N-CA	-5.89	1.38	1.45
5	3-R	107	MET	N-CA	-5.89	1.38	1.46
6	1-G	622	GLU	CA-C	-5.89	1.44	1.52
6	2-G	622	GLU	CA-C	-5.89	1.44	1.52
6	2-K	139	ALA	N-CA	-5.89	1.39	1.46
1	3-A	231	ILE	CA-C	-5.89	1.45	1.52
3	1-C	556	HIS	N-CA	-5.89	1.38	1.46
3	2-C	556	HIS	N-CA	-5.89	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	556	HIS	N-CA	-5.89	1.38	1.46
2	1-B	191	LEU	CA-C	-5.89	1.45	1.52
3	1-C	316	TRP	N-CA	-5.89	1.38	1.45
2	2-B	191	LEU	CA-C	-5.89	1.45	1.52
3	2-C	316	TRP	N-CA	-5.89	1.38	1.45
2	3-B	191	LEU	CA-C	-5.89	1.45	1.52
3	3-C	316	TRP	N-CA	-5.89	1.38	1.45
6	1-K	864	LEU	N-CA	-5.88	1.40	1.46
6	2-K	864	LEU	N-CA	-5.88	1.40	1.46
6	3-K	864	LEU	N-CA	-5.88	1.40	1.46
7	1-Z	16	ILE	CA-C	-5.88	1.45	1.52
7	2-Z	16	ILE	CA-C	-5.88	1.45	1.52
7	3-Z	16	ILE	CA-C	-5.88	1.45	1.52
6	1-G	191	MET	N-CA	-5.88	1.39	1.46
2	2-B	762	ASN	N-CA	-5.88	1.39	1.46
6	2-G	191	MET	N-CA	-5.88	1.39	1.46
6	2-K	83	THR	N-CA	-5.88	1.38	1.46
2	3-B	762	ASN	N-CA	-5.88	1.39	1.46
6	3-G	191	MET	N-CA	-5.88	1.39	1.46
2	1-B	441	GLU	CA-C	-5.88	1.45	1.52
2	3-B	441	GLU	CA-C	-5.88	1.45	1.52
6	1-G	164	LEU	CA-C	-5.87	1.45	1.52
6	2-G	164	LEU	CA-C	-5.87	1.45	1.52
6	1-G	162	SER	N-CA	-5.87	1.39	1.46
6	2-G	162	SER	N-CA	-5.87	1.39	1.46
1	1-A	589	VAL	CA-C	-5.87	1.45	1.52
1	2-A	589	VAL	CA-C	-5.87	1.45	1.52
1	3-A	589	VAL	CA-C	-5.87	1.45	1.52
7	2-Z	129	VAL	N-CA	-5.87	1.39	1.46
2	1-B	204	CYS	N-CA	-5.87	1.39	1.46
6	1-G	732	VAL	N-CA	-5.87	1.39	1.46
2	2-B	204	CYS	N-CA	-5.87	1.39	1.46
6	2-G	732	VAL	N-CA	-5.87	1.39	1.46
2	3-B	204	CYS	N-CA	-5.87	1.39	1.46
2	1-B	138	PHE	N-CA	-5.86	1.39	1.46
6	1-G	249	SER	C-O	-5.86	1.19	1.24
6	1-K	241	GLU	CA-C	-5.86	1.44	1.52
2	2-B	138	PHE	N-CA	-5.86	1.39	1.46
6	2-G	249	SER	C-O	-5.86	1.19	1.24
6	2-K	241	GLU	CA-C	-5.86	1.44	1.52
2	3-B	138	PHE	N-CA	-5.86	1.39	1.46
7	1-L	117	ASN	CA-C	-5.86	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	2-L	117	ASN	CA-C	-5.86	1.45	1.52
7	3-L	117	ASN	CA-C	-5.86	1.45	1.52
2	1-B	399	VAL	CA-C	-5.86	1.45	1.52
6	1-K	640	THR	CA-C	-5.86	1.45	1.52
6	2-K	640	THR	CA-C	-5.86	1.45	1.52
2	3-B	399	VAL	CA-C	-5.86	1.45	1.52
4	1-D	159	MET	CA-C	-5.86	1.45	1.52
7	1-L	14	LYS	CA-C	-5.86	1.45	1.52
4	2-D	159	MET	CA-C	-5.86	1.45	1.52
7	2-L	14	LYS	CA-C	-5.86	1.45	1.52
4	3-D	159	MET	CA-C	-5.86	1.45	1.52
7	3-L	14	LYS	CA-C	-5.86	1.45	1.52
4	1-D	118	ALA	CA-C	-5.85	1.45	1.52
4	2-D	118	ALA	CA-C	-5.85	1.45	1.52
1	3-A	224	ALA	CA-C	-5.85	1.45	1.52
4	3-D	118	ALA	CA-C	-5.85	1.45	1.52
3	1-C	780	VAL	CA-C	-5.85	1.45	1.52
3	2-C	780	VAL	CA-C	-5.85	1.45	1.52
6	2-K	92	ILE	CA-C	-5.85	1.45	1.52
3	3-C	780	VAL	CA-C	-5.85	1.45	1.52
5	1-R	105	GLU	N-CA	-5.85	1.39	1.46
5	2-R	105	GLU	N-CA	-5.85	1.39	1.46
5	3-R	105	GLU	N-CA	-5.85	1.39	1.46
3	1-C	551	ILE	N-CA	-5.85	1.39	1.46
3	2-C	551	ILE	N-CA	-5.85	1.39	1.46
3	3-C	551	ILE	N-CA	-5.85	1.39	1.46
6	1-K	289	VAL	N-CA	-5.84	1.39	1.46
6	2-K	289	VAL	N-CA	-5.84	1.39	1.46
2	1-B	315	ILE	CA-C	-5.84	1.45	1.52
6	1-G	640	THR	CA-C	-5.84	1.45	1.52
2	2-B	315	ILE	CA-C	-5.84	1.45	1.52
6	2-G	640	THR	CA-C	-5.84	1.45	1.52
2	3-B	315	ILE	CA-C	-5.84	1.45	1.52
3	1-C	109	PRO	CA-C	-5.84	1.44	1.52
3	1-C	550	GLU	N-CA	-5.84	1.38	1.45
3	2-C	109	PRO	CA-C	-5.84	1.44	1.52
3	2-C	550	GLU	N-CA	-5.84	1.38	1.45
3	3-C	109	PRO	CA-C	-5.84	1.44	1.52
3	3-C	550	GLU	N-CA	-5.84	1.38	1.45
6	1-G	136	MET	CA-C	-5.84	1.44	1.52
2	2-B	851	THR	CA-C	-5.84	1.45	1.52
6	2-G	136	MET	CA-C	-5.84	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-B	851	THR	CA-C	-5.84	1.45	1.52
3	1-C	15	SER	N-CA	-5.83	1.40	1.46
5	1-R	145	LEU	CA-C	-5.83	1.45	1.52
3	2-C	15	SER	N-CA	-5.83	1.40	1.46
5	2-R	145	LEU	CA-C	-5.83	1.45	1.52
3	3-C	15	SER	N-CA	-5.83	1.40	1.46
5	3-R	145	LEU	CA-C	-5.83	1.45	1.52
2	2-B	140	CYS	CA-C	-5.83	1.45	1.52
5	2-R	33	VAL	CA-C	-5.83	1.45	1.52
2	3-B	140	CYS	CA-C	-5.83	1.45	1.52
2	1-B	395	ARG	CA-C	-5.83	1.45	1.52
6	1-K	622	GLU	CA-C	-5.83	1.44	1.52
6	2-K	622	GLU	CA-C	-5.83	1.44	1.52
2	3-B	395	ARG	CA-C	-5.83	1.45	1.52
2	1-B	321	VAL	N-CA	-5.83	1.39	1.46
6	1-G	707	TYR	N-CA	-5.83	1.38	1.45
2	2-B	321	VAL	N-CA	-5.83	1.39	1.46
6	2-G	707	TYR	N-CA	-5.83	1.38	1.45
2	3-B	321	VAL	N-CA	-5.83	1.39	1.46
2	3-B	75	MET	N-CA	-5.83	1.39	1.46
5	2-R	47	PRO	CA-C	-5.82	1.44	1.52
3	1-C	521	GLN	N-CA	-5.82	1.39	1.46
3	3-C	521	GLN	N-CA	-5.82	1.39	1.46
6	1-K	674	LEU	CA-C	-5.82	1.45	1.52
6	2-K	674	LEU	CA-C	-5.82	1.45	1.52
2	1-B	286	LEU	N-CA	-5.81	1.39	1.46
6	1-G	81	ASP	CA-C	-5.81	1.45	1.52
2	2-B	286	LEU	N-CA	-5.81	1.39	1.46
6	2-G	81	ASP	CA-C	-5.81	1.45	1.52
7	2-Z	119	GLU	CA-C	-5.81	1.45	1.52
6	2-K	184	ALA	N-CA	-5.81	1.39	1.46
2	3-B	286	LEU	N-CA	-5.81	1.39	1.46
2	1-B	234	PHE	CA-C	-5.81	1.45	1.52
2	1-B	428	ASN	CA-C	-5.81	1.45	1.52
6	1-K	707	TYR	N-CA	-5.81	1.38	1.45
2	2-B	234	PHE	CA-C	-5.81	1.45	1.52
2	2-B	428	ASN	CA-C	-5.81	1.45	1.52
6	2-K	707	TYR	N-CA	-5.81	1.38	1.45
2	3-B	234	PHE	CA-C	-5.81	1.45	1.52
2	3-B	428	ASN	CA-C	-5.81	1.45	1.52
6	3-K	707	TYR	N-CA	-5.81	1.38	1.45
6	1-G	443	ILE	CA-C	-5.80	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-K	662	GLN	CA-C	-5.80	1.45	1.52
1	2-A	212	ALA	CA-C	-5.80	1.45	1.52
2	2-B	802	ALA	CA-C	-5.80	1.45	1.52
6	2-G	443	ILE	CA-C	-5.80	1.45	1.52
6	2-K	176	ARG	CA-C	-5.80	1.44	1.52
6	2-K	662	GLN	CA-C	-5.80	1.45	1.52
1	3-A	212	ALA	CA-C	-5.80	1.45	1.52
2	3-B	802	ALA	CA-C	-5.80	1.45	1.52
6	1-K	46	HIS	CA-C	-5.80	1.45	1.52
6	2-K	46	HIS	CA-C	-5.80	1.45	1.52
3	1-C	322	VAL	CA-C	-5.80	1.46	1.53
3	1-C	369	VAL	N-CA	-5.80	1.39	1.46
3	2-C	322	VAL	CA-C	-5.80	1.46	1.53
3	2-C	603	PHE	N-CA	-5.80	1.39	1.46
3	3-C	322	VAL	CA-C	-5.80	1.46	1.53
3	3-C	369	VAL	N-CA	-5.80	1.39	1.46
3	3-C	603	PHE	N-CA	-5.80	1.39	1.46
1	2-A	683	LEU	CA-C	-5.80	1.45	1.52
7	2-Z	143	VAL	N-CA	-5.80	1.39	1.46
1	3-A	683	LEU	CA-C	-5.80	1.45	1.52
6	1-G	751	TYR	CA-C	-5.79	1.45	1.52
6	2-G	751	TYR	CA-C	-5.79	1.45	1.52
3	1-C	587	LEU	CA-C	-5.79	1.45	1.52
3	2-C	587	LEU	CA-C	-5.79	1.45	1.52
3	3-C	587	LEU	CA-C	-5.79	1.45	1.52
2	1-B	263	CYS	CA-C	-5.79	1.45	1.52
6	1-G	442	PHE	N-CA	-5.79	1.39	1.46
1	2-A	682	LEU	CA-C	-5.79	1.45	1.52
2	2-B	263	CYS	CA-C	-5.79	1.45	1.52
6	2-G	442	PHE	N-CA	-5.79	1.39	1.46
1	3-A	682	LEU	CA-C	-5.79	1.45	1.52
2	3-B	263	CYS	CA-C	-5.79	1.45	1.52
6	1-G	769	LYS	CA-C	-5.79	1.45	1.52
6	2-G	769	LYS	CA-C	-5.79	1.45	1.52
1	2-A	630	GLN	N-CA	-5.79	1.38	1.46
1	3-A	630	GLN	N-CA	-5.79	1.38	1.46
5	1-F	38	LYS	CA-C	-5.79	1.45	1.52
5	2-F	38	LYS	CA-C	-5.79	1.45	1.52
6	1-G	662	GLN	CA-C	-5.79	1.45	1.52
7	1-L	139	PRO	CA-C	-5.79	1.42	1.52
6	2-G	662	GLN	CA-C	-5.79	1.45	1.52
7	2-L	139	PRO	CA-C	-5.79	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	3-L	139	PRO	CA-C	-5.79	1.42	1.52
4	1-D	81	GLU	N-CA	-5.78	1.39	1.46
4	2-D	81	GLU	N-CA	-5.78	1.39	1.46
4	3-D	81	GLU	N-CA	-5.78	1.39	1.46
4	1-D	6	ALA	CA-C	-5.78	1.45	1.52
4	2-D	6	ALA	CA-C	-5.78	1.45	1.52
6	2-K	155	VAL	N-CA	-5.78	1.39	1.46
2	1-B	372	VAL	C-N	-5.78	1.26	1.33
6	1-K	732	VAL	CA-C	-5.78	1.45	1.52
2	2-B	372	VAL	C-N	-5.78	1.26	1.33
6	2-K	732	VAL	CA-C	-5.78	1.45	1.52
2	3-B	372	VAL	C-N	-5.78	1.26	1.33
6	3-K	732	VAL	CA-C	-5.78	1.45	1.52
6	1-G	531	TYR	CA-C	-5.77	1.45	1.52
6	2-G	531	TYR	CA-C	-5.77	1.45	1.52
6	2-G	378	VAL	CA-C	-5.77	1.45	1.52
2	1-B	283	LEU	CA-C	-5.77	1.45	1.52
2	2-B	283	LEU	CA-C	-5.77	1.45	1.52
7	2-Z	62	LEU	N-CA	-5.77	1.38	1.46
6	2-K	202	HIS	N-CA	-5.77	1.39	1.46
6	2-K	233	ILE	CA-C	-5.77	1.45	1.52
2	3-B	61	ILE	N-CA	-5.77	1.39	1.46
2	3-B	283	LEU	CA-C	-5.77	1.45	1.52
7	3-Z	62	LEU	N-CA	-5.77	1.38	1.46
1	2-A	620	LEU	CA-C	-5.77	1.45	1.52
1	3-A	620	LEU	CA-C	-5.77	1.45	1.52
7	2-Z	44	PHE	CA-C	-5.76	1.45	1.52
7	3-Z	44	PHE	CA-C	-5.76	1.45	1.52
1	1-A	564	LEU	CA-C	-5.76	1.45	1.52
2	1-B	262	ARG	N-CA	-5.76	1.39	1.46
6	1-K	769	LYS	CA-C	-5.76	1.45	1.52
1	2-A	564	LEU	CA-C	-5.76	1.45	1.52
2	2-B	262	ARG	N-CA	-5.76	1.39	1.46
6	2-K	769	LYS	CA-C	-5.76	1.45	1.52
1	3-A	564	LEU	CA-C	-5.76	1.45	1.52
2	3-B	262	ARG	N-CA	-5.76	1.39	1.46
6	1-G	674	LEU	CA-C	-5.76	1.45	1.52
6	2-G	674	LEU	CA-C	-5.76	1.45	1.52
2	1-B	267	LEU	CA-C	-5.76	1.44	1.52
2	2-B	267	LEU	CA-C	-5.76	1.44	1.52
2	3-B	267	LEU	CA-C	-5.76	1.44	1.52
3	1-C	625	LEU	CA-C	-5.75	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	234	ARG	C-N	-5.75	1.26	1.33
7	1-L	83	SER	N-CA	-5.75	1.38	1.46
3	2-C	625	LEU	CA-C	-5.75	1.45	1.52
6	2-G	234	ARG	C-N	-5.75	1.26	1.33
7	2-L	83	SER	N-CA	-5.75	1.38	1.46
3	3-C	625	LEU	CA-C	-5.75	1.45	1.52
6	3-G	234	ARG	C-N	-5.75	1.26	1.33
7	3-L	83	SER	N-CA	-5.75	1.38	1.46
5	2-R	25	LEU	CA-C	-5.75	1.45	1.53
6	1-K	650	CYS	CA-C	-5.75	1.45	1.52
6	2-K	650	CYS	CA-C	-5.75	1.45	1.52
5	1-F	92	VAL	CA-C	-5.75	1.45	1.52
5	1-R	122	LEU	CA-C	-5.75	1.45	1.52
5	1-R	122	LEU	N-CA	-5.75	1.39	1.46
1	2-A	679	GLU	N-CA	-5.75	1.39	1.46
5	2-F	92	VAL	CA-C	-5.75	1.45	1.52
5	2-R	122	LEU	CA-C	-5.75	1.45	1.52
5	2-R	122	LEU	N-CA	-5.75	1.39	1.46
1	3-A	679	GLU	N-CA	-5.75	1.39	1.46
5	3-R	122	LEU	CA-C	-5.75	1.45	1.52
5	3-R	122	LEU	N-CA	-5.75	1.39	1.46
3	2-C	298	LYS	CA-C	-5.75	1.45	1.52
3	3-C	298	LYS	CA-C	-5.75	1.45	1.52
4	1-D	82	THR	N-CA	-5.74	1.39	1.46
6	1-G	732	VAL	CA-C	-5.74	1.45	1.52
2	2-B	855	PHE	CA-C	-5.74	1.45	1.52
4	2-D	82	THR	N-CA	-5.74	1.39	1.46
6	2-G	732	VAL	CA-C	-5.74	1.45	1.52
2	3-B	855	PHE	CA-C	-5.74	1.45	1.52
4	3-D	82	THR	N-CA	-5.74	1.39	1.46
3	1-C	783	LYS	CA-C	-5.74	1.45	1.52
3	1-C	836	MET	CA-C	-5.74	1.45	1.52
6	1-G	137	LEU	N-CA	-5.74	1.39	1.46
3	2-C	783	LYS	CA-C	-5.74	1.45	1.52
3	2-C	836	MET	CA-C	-5.74	1.45	1.52
6	2-G	137	LEU	N-CA	-5.74	1.39	1.46
7	2-Z	146	VAL	CA-C	-5.74	1.46	1.52
3	3-C	783	LYS	CA-C	-5.74	1.45	1.52
3	3-C	836	MET	CA-C	-5.74	1.45	1.52
5	1-M	25	LEU	CA-C	-5.74	1.45	1.53
5	2-M	25	LEU	CA-C	-5.74	1.45	1.53
5	3-M	25	LEU	CA-C	-5.74	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-K	64	THR	CA-C	-5.74	1.45	1.52
6	1-K	683	PRO	C-N	5.74	1.41	1.33
6	2-K	683	PRO	C-N	5.74	1.41	1.33
2	1-B	172	LEU	CA-C	-5.73	1.45	1.52
2	2-B	172	LEU	CA-C	-5.73	1.45	1.52
2	3-B	172	LEU	CA-C	-5.73	1.45	1.52
6	1-K	776	TRP	N-CA	-5.73	1.39	1.46
7	1-L	144	HIS	CA-C	-5.73	1.45	1.52
7	2-Z	70	LYS	N-CA	-5.73	1.38	1.46
6	2-K	776	TRP	N-CA	-5.73	1.39	1.46
7	2-L	144	HIS	CA-C	-5.73	1.45	1.52
7	3-L	144	HIS	CA-C	-5.73	1.45	1.52
3	1-C	182	GLU	CA-C	-5.73	1.45	1.53
3	2-C	182	GLU	CA-C	-5.73	1.45	1.53
3	3-C	182	GLU	CA-C	-5.73	1.45	1.53
2	1-B	136	LEU	CA-C	-5.73	1.45	1.52
2	1-B	376	LYS	CA-C	-5.73	1.45	1.52
1	2-A	325	ALA	C-N	5.73	1.40	1.33
2	2-B	136	LEU	CA-C	-5.73	1.45	1.52
2	2-B	376	LYS	CA-C	-5.73	1.45	1.52
1	3-A	325	ALA	C-N	5.73	1.40	1.33
2	3-B	136	LEU	CA-C	-5.73	1.45	1.52
2	3-B	376	LYS	CA-C	-5.73	1.45	1.52
5	1-R	110	MET	N-CA	-5.72	1.39	1.46
5	2-R	110	MET	N-CA	-5.72	1.39	1.46
5	3-R	110	MET	N-CA	-5.72	1.39	1.46
5	1-F	71	GLN	CA-C	-5.72	1.45	1.53
5	2-F	71	GLN	CA-C	-5.72	1.45	1.53
3	1-C	510	ILE	CA-C	-5.72	1.45	1.52
6	1-G	650	CYS	CA-C	-5.72	1.45	1.52
7	1-L	144	HIS	N-CA	-5.72	1.39	1.46
3	2-C	510	ILE	CA-C	-5.72	1.45	1.52
6	2-G	650	CYS	CA-C	-5.72	1.45	1.52
7	2-L	144	HIS	N-CA	-5.72	1.39	1.46
3	3-C	510	ILE	CA-C	-5.72	1.45	1.52
7	3-L	144	HIS	N-CA	-5.72	1.39	1.46
2	1-B	391	THR	CA-C	-5.71	1.44	1.52
6	2-G	383	ILE	CA-C	-5.71	1.45	1.52
7	1-L	39	LYS	CA-C	-5.71	1.45	1.52
6	2-G	776	TRP	N-CA	-5.71	1.39	1.46
7	2-L	39	LYS	CA-C	-5.71	1.45	1.52
7	3-L	39	LYS	CA-C	-5.71	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	249	GLU	CA-C	-5.71	1.45	1.53
6	1-G	256	GLU	CA-C	-5.71	1.45	1.52
3	2-C	249	GLU	CA-C	-5.71	1.45	1.53
6	2-G	256	GLU	CA-C	-5.71	1.45	1.52
6	2-K	194	TYR	N-CA	-5.71	1.39	1.46
6	2-K	67	THR	CA-C	-5.71	1.45	1.52
1	1-A	521	LEU	CA-C	-5.71	1.45	1.52
1	2-A	521	LEU	CA-C	-5.71	1.45	1.52
1	3-A	521	LEU	CA-C	-5.71	1.45	1.52
6	1-G	104	ILE	CA-C	-5.71	1.45	1.52
6	1-G	727	VAL	CA-C	-5.71	1.45	1.52
6	2-G	104	ILE	CA-C	-5.71	1.45	1.52
6	2-G	727	VAL	CA-C	-5.71	1.45	1.52
6	2-K	231	MET	CA-C	-5.70	1.45	1.52
2	1-B	415	ASN	N-CA	-5.70	1.39	1.46
2	2-B	953	LEU	CA-C	-5.70	1.45	1.52
2	3-B	415	ASN	N-CA	-5.70	1.39	1.46
2	3-B	953	LEU	CA-C	-5.70	1.45	1.52
7	2-Z	124	ALA	CA-C	-5.70	1.45	1.52
6	2-K	217	LYS	N-CA	-5.70	1.39	1.46
6	1-G	721	ALA	CA-C	-5.70	1.45	1.52
6	2-G	721	ALA	CA-C	-5.70	1.45	1.52
2	1-B	374	VAL	C-O	-5.69	1.17	1.24
2	2-B	374	VAL	C-O	-5.69	1.17	1.24
2	3-B	374	VAL	C-O	-5.69	1.17	1.24
2	1-B	258	ALA	CA-C	-5.69	1.45	1.52
2	2-B	258	ALA	CA-C	-5.69	1.45	1.52
6	2-K	162	SER	CA-C	-5.69	1.45	1.52
2	3-B	258	ALA	CA-C	-5.69	1.45	1.52
2	1-B	94	LEU	N-CA	-5.69	1.39	1.46
6	1-K	727	VAL	CA-C	-5.69	1.45	1.52
1	2-A	536	ASP	CA-C	-5.69	1.45	1.52
2	2-B	94	LEU	N-CA	-5.69	1.39	1.46
6	2-K	727	VAL	CA-C	-5.69	1.45	1.52
1	3-A	536	ASP	CA-C	-5.69	1.45	1.52
2	3-B	94	LEU	N-CA	-5.69	1.39	1.46
6	3-K	727	VAL	CA-C	-5.69	1.45	1.52
6	1-K	256	GLU	CA-C	-5.69	1.45	1.52
6	2-K	256	GLU	CA-C	-5.69	1.45	1.52
4	1-D	144	PHE	CA-C	-5.69	1.45	1.52
4	2-D	144	PHE	CA-C	-5.69	1.45	1.52
4	3-D	144	PHE	CA-C	-5.69	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	7	ILE	N-CA	-5.68	1.39	1.46
3	1-C	259	SER	CA-C	-5.68	1.45	1.52
6	1-K	721	ALA	CA-C	-5.68	1.45	1.52
3	2-C	7	ILE	N-CA	-5.68	1.39	1.46
3	2-C	259	SER	CA-C	-5.68	1.45	1.52
6	2-K	721	ALA	CA-C	-5.68	1.45	1.52
3	3-C	7	ILE	N-CA	-5.68	1.39	1.46
6	3-K	721	ALA	CA-C	-5.68	1.45	1.52
6	1-G	683	PRO	C-N	5.68	1.41	1.33
2	2-B	778	LEU	CA-C	-5.68	1.45	1.52
6	2-G	683	PRO	C-N	5.68	1.41	1.33
6	2-K	212	SER	N-CA	-5.68	1.39	1.46
2	3-B	778	LEU	CA-C	-5.68	1.45	1.52
7	1-L	40	GLU	CA-C	-5.68	1.45	1.52
7	2-L	40	GLU	CA-C	-5.68	1.45	1.52
7	3-L	40	GLU	CA-C	-5.68	1.45	1.52
2	1-B	124	LEU	CA-C	-5.68	1.45	1.52
3	1-C	737	LYS	CA-C	-5.68	1.45	1.52
2	2-B	124	LEU	CA-C	-5.68	1.45	1.52
3	2-C	737	LYS	CA-C	-5.68	1.45	1.52
2	3-B	124	LEU	CA-C	-5.68	1.45	1.52
3	3-C	737	LYS	CA-C	-5.68	1.45	1.52
4	1-D	132	THR	CA-C	-5.67	1.45	1.52
6	1-G	249	SER	C-N	-5.67	1.26	1.33
7	1-Z	82	SER	CA-C	-5.67	1.45	1.52
1	2-A	38	TYR	CA-C	-5.67	1.45	1.52
3	2-C	610	LEU	N-CA	-5.67	1.40	1.46
4	2-D	132	THR	CA-C	-5.67	1.45	1.52
6	2-G	249	SER	C-N	-5.67	1.26	1.33
7	2-Z	82	SER	CA-C	-5.67	1.45	1.52
1	3-A	38	TYR	CA-C	-5.67	1.45	1.52
3	3-C	610	LEU	N-CA	-5.67	1.40	1.46
4	3-D	132	THR	CA-C	-5.67	1.45	1.52
7	1-L	92	ALA	CA-C	-5.67	1.45	1.52
7	2-L	92	ALA	CA-C	-5.67	1.45	1.52
7	3-L	92	ALA	CA-C	-5.67	1.45	1.52
7	1-L	98	PHE	CA-C	-5.67	1.45	1.52
7	2-L	98	PHE	CA-C	-5.67	1.45	1.52
7	3-L	98	PHE	CA-C	-5.67	1.45	1.52
7	2-Z	28	ALA	N-CA	-5.67	1.39	1.46
7	3-Z	28	ALA	N-CA	-5.67	1.39	1.46
3	1-C	542	ARG	CA-C	-5.67	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-C	542	ARG	CA-C	-5.67	1.46	1.52
3	3-C	542	ARG	CA-C	-5.67	1.46	1.52
3	1-C	406	ARG	CA-C	-5.67	1.45	1.52
3	2-C	406	ARG	CA-C	-5.67	1.45	1.52
3	3-C	406	ARG	CA-C	-5.67	1.45	1.52
2	1-B	188	ALA	N-CA	-5.66	1.41	1.46
5	1-R	113	GLU	N-CA	-5.66	1.38	1.46
1	2-A	594	PRO	C-N	-5.66	1.27	1.34
2	2-B	188	ALA	N-CA	-5.66	1.41	1.46
5	2-R	113	GLU	N-CA	-5.66	1.38	1.46
1	3-A	594	PRO	C-N	-5.66	1.27	1.34
2	3-B	188	ALA	N-CA	-5.66	1.41	1.46
5	3-R	113	GLU	N-CA	-5.66	1.38	1.46
5	1-F	42	VAL	CA-C	-5.66	1.46	1.52
5	2-F	42	VAL	CA-C	-5.66	1.46	1.52
3	1-C	402	GLU	CA-C	-5.66	1.45	1.52
4	1-D	147	VAL	CA-C	-5.66	1.46	1.52
3	2-C	402	GLU	CA-C	-5.66	1.45	1.52
4	2-D	147	VAL	CA-C	-5.66	1.46	1.52
6	2-K	154	SER	CA-C	-5.66	1.45	1.52
3	3-C	402	GLU	CA-C	-5.66	1.45	1.52
4	3-D	147	VAL	CA-C	-5.66	1.46	1.52
1	2-A	681	ALA	N-CA	-5.66	1.39	1.46
1	3-A	681	ALA	N-CA	-5.66	1.39	1.46
2	1-B	95	VAL	CA-C	-5.66	1.45	1.52
2	2-B	95	VAL	CA-C	-5.66	1.45	1.52
2	3-B	95	VAL	CA-C	-5.66	1.45	1.52
4	1-D	77	LEU	CA-C	-5.66	1.45	1.52
1	2-A	201	LEU	CA-C	-5.66	1.46	1.52
4	2-D	77	LEU	CA-C	-5.66	1.45	1.52
1	3-A	201	LEU	CA-C	-5.66	1.46	1.52
4	3-D	77	LEU	CA-C	-5.66	1.45	1.52
6	1-G	76	LEU	CA-C	-5.65	1.45	1.52
6	2-G	76	LEU	CA-C	-5.65	1.45	1.52
1	1-A	496	TRP	CA-C	-5.65	1.46	1.52
3	1-C	214	TRP	CA-C	-5.65	1.45	1.52
1	2-A	496	TRP	CA-C	-5.65	1.46	1.52
3	2-C	214	TRP	CA-C	-5.65	1.45	1.52
1	3-A	496	TRP	CA-C	-5.65	1.46	1.52
2	1-B	303	LEU	N-CA	-5.65	1.39	1.46
2	2-B	303	LEU	N-CA	-5.65	1.39	1.46
2	3-B	303	LEU	N-CA	-5.65	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-D	57	VAL	N-CA	-5.64	1.39	1.46
5	1-M	100	ILE	N-CA	-5.64	1.39	1.46
1	2-A	436	LEU	N-CA	-5.64	1.39	1.45
4	2-D	57	VAL	N-CA	-5.64	1.39	1.46
6	2-K	107	SER	CA-C	-5.64	1.45	1.52
5	2-M	100	ILE	N-CA	-5.64	1.39	1.46
1	3-A	436	LEU	N-CA	-5.64	1.39	1.45
4	3-D	57	VAL	N-CA	-5.64	1.39	1.46
5	3-M	100	ILE	N-CA	-5.64	1.39	1.46
6	1-G	840	ILE	CA-C	-5.64	1.45	1.52
6	2-G	840	ILE	CA-C	-5.64	1.45	1.52
6	3-G	840	ILE	CA-C	-5.64	1.45	1.52
4	1-D	102	ILE	CA-C	-5.64	1.45	1.52
4	2-D	102	ILE	CA-C	-5.64	1.45	1.52
4	3-D	102	ILE	CA-C	-5.64	1.45	1.52
1	1-A	658	ILE	CA-C	-5.64	1.43	1.52
3	1-C	644	ARG	CA-C	-5.64	1.45	1.52
1	2-A	658	ILE	CA-C	-5.64	1.43	1.52
3	2-C	644	ARG	CA-C	-5.64	1.45	1.52
1	3-A	658	ILE	CA-C	-5.64	1.43	1.52
3	3-C	644	ARG	CA-C	-5.64	1.45	1.52
1	1-A	506	LEU	N-CA	-5.64	1.39	1.45
5	1-F	141	GLU	CA-C	-5.64	1.45	1.52
6	1-K	632	SER	CA-C	-5.64	1.45	1.52
1	2-A	506	LEU	N-CA	-5.64	1.39	1.45
5	2-F	141	GLU	CA-C	-5.64	1.45	1.52
6	2-K	632	SER	CA-C	-5.64	1.45	1.52
1	3-A	506	LEU	N-CA	-5.64	1.39	1.45
3	1-C	291	ASP	CA-C	-5.63	1.45	1.52
3	2-C	291	ASP	CA-C	-5.63	1.45	1.52
3	3-C	291	ASP	CA-C	-5.63	1.45	1.52
1	1-A	663	GLU	N-CA	-5.63	1.39	1.46
5	1-R	172	TRP	CA-C	-5.63	1.45	1.52
6	1-K	752	VAL	CA-C	-5.63	1.45	1.52
1	2-A	663	GLU	N-CA	-5.63	1.39	1.46
6	2-K	752	VAL	CA-C	-5.63	1.45	1.52
1	3-A	663	GLU	N-CA	-5.63	1.39	1.46
5	3-R	172	TRP	CA-C	-5.63	1.45	1.52
1	1-A	660	ILE	N-CA	-5.63	1.39	1.46
6	1-K	751	TYR	CA-C	-5.63	1.45	1.52
1	2-A	145	PRO	CA-C	-5.63	1.44	1.52
1	2-A	660	ILE	N-CA	-5.63	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-B	793	ALA	C-N	-5.63	1.26	1.33
6	2-K	751	TYR	CA-C	-5.63	1.45	1.52
1	3-A	145	PRO	CA-C	-5.63	1.44	1.52
1	3-A	660	ILE	N-CA	-5.63	1.39	1.46
2	3-B	793	ALA	C-N	-5.63	1.26	1.33
2	1-B	361	ASP	N-CA	-5.63	1.39	1.46
3	1-C	841	GLY	CA-C	-5.63	1.45	1.51
2	2-B	361	ASP	N-CA	-5.63	1.39	1.46
3	2-C	841	GLY	CA-C	-5.63	1.45	1.51
2	3-B	361	ASP	N-CA	-5.63	1.39	1.46
3	3-C	841	GLY	CA-C	-5.63	1.45	1.51
3	1-C	536	TYR	CA-C	-5.62	1.45	1.52
3	2-C	536	TYR	CA-C	-5.62	1.45	1.52
3	3-C	536	TYR	CA-C	-5.62	1.45	1.52
2	2-B	781	LEU	N-CA	-5.62	1.39	1.46
7	2-Z	49	PHE	CA-C	-5.62	1.45	1.52
2	3-B	781	LEU	N-CA	-5.62	1.39	1.46
7	3-Z	49	PHE	CA-C	-5.62	1.45	1.52
7	2-Z	126	ASP	CA-C	-5.62	1.45	1.52
2	1-B	422	GLU	N-CA	-5.62	1.39	1.46
2	2-B	422	GLU	N-CA	-5.62	1.39	1.46
2	3-B	422	GLU	N-CA	-5.62	1.39	1.46
3	1-C	433	ILE	CA-C	-5.62	1.45	1.52
3	2-C	433	ILE	CA-C	-5.62	1.45	1.52
5	1-F	93	ASP	CA-C	-5.62	1.46	1.52
5	2-F	93	ASP	CA-C	-5.62	1.46	1.52
7	1-L	82	SER	CA-C	-5.61	1.46	1.52
7	2-L	82	SER	CA-C	-5.61	1.46	1.52
7	3-L	82	SER	CA-C	-5.61	1.46	1.52
6	2-K	91	THR	CA-C	-5.61	1.45	1.52
6	1-K	638	ALA	CA-C	-5.61	1.45	1.52
1	2-A	445	THR	CA-C	-5.61	1.45	1.52
6	2-K	638	ALA	CA-C	-5.61	1.45	1.52
1	3-A	445	THR	CA-C	-5.61	1.45	1.52
6	1-G	638	ALA	CA-C	-5.61	1.45	1.52
6	2-G	638	ALA	CA-C	-5.61	1.45	1.52
6	1-G	243	GLU	CA-C	-5.61	1.45	1.52
6	1-G	632	SER	CA-C	-5.61	1.45	1.52
7	1-L	49	PHE	N-CA	-5.61	1.39	1.46
6	2-G	243	GLU	CA-C	-5.61	1.45	1.52
6	2-G	632	SER	CA-C	-5.61	1.45	1.52
7	2-L	49	PHE	N-CA	-5.61	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	3-L	49	PHE	N-CA	-5.61	1.39	1.46
6	1-G	152	VAL	CA-C	-5.61	1.47	1.52
6	2-G	152	VAL	CA-C	-5.61	1.47	1.52
1	1-A	560	ILE	CA-C	-5.60	1.45	1.52
3	1-C	241	LEU	CA-C	-5.60	1.45	1.52
5	1-F	19	ARG	N-CA	-5.60	1.39	1.46
1	2-A	560	ILE	CA-C	-5.60	1.45	1.52
3	2-C	241	LEU	CA-C	-5.60	1.45	1.52
5	2-F	19	ARG	N-CA	-5.60	1.39	1.46
1	3-A	560	ILE	CA-C	-5.60	1.45	1.52
3	1-C	538	SER	CA-C	-5.60	1.45	1.52
6	1-K	840	ILE	CA-C	-5.60	1.45	1.52
1	2-A	692	MET	CA-C	-5.60	1.45	1.52
3	2-C	458	ILE	N-CA	-5.60	1.39	1.46
3	2-C	538	SER	CA-C	-5.60	1.45	1.52
6	2-K	840	ILE	CA-C	-5.60	1.45	1.52
1	3-A	692	MET	CA-C	-5.60	1.45	1.52
3	3-C	458	ILE	N-CA	-5.60	1.39	1.46
3	3-C	538	SER	CA-C	-5.60	1.45	1.52
6	3-K	840	ILE	CA-C	-5.60	1.45	1.52
6	1-K	52	LEU	N-CA	-5.60	1.39	1.46
6	2-K	52	LEU	N-CA	-5.60	1.39	1.46
6	2-G	374	GLU	CA-C	-5.59	1.48	1.53
6	2-K	155	VAL	CA-C	-5.59	1.45	1.52
6	1-G	215	ILE	C-O	-5.59	1.17	1.24
6	2-G	215	ILE	C-O	-5.59	1.17	1.24
6	3-G	215	ILE	C-O	-5.59	1.17	1.24
1	1-A	586	ARG	C-N	5.59	1.40	1.33
2	1-B	310	ASN	N-CA	-5.59	1.39	1.46
1	2-A	586	ARG	C-N	5.59	1.40	1.33
2	2-B	310	ASN	N-CA	-5.59	1.39	1.46
1	3-A	586	ARG	C-N	5.59	1.40	1.33
2	3-B	310	ASN	N-CA	-5.59	1.39	1.46
6	1-G	92	ILE	N-CA	-5.59	1.39	1.46
6	1-G	421	ILE	CA-C	-5.59	1.46	1.52
6	2-G	92	ILE	N-CA	-5.59	1.39	1.46
6	2-G	421	ILE	CA-C	-5.59	1.46	1.52
6	2-K	192	VAL	N-CA	-5.59	1.39	1.46
2	1-B	414	ALA	C-O	-5.59	1.17	1.24
5	1-R	127	LYS	CA-C	-5.59	1.46	1.53
1	2-A	80	TYR	CA-C	-5.59	1.46	1.52
2	2-B	871	ASN	N-CA	-5.59	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-R	127	LYS	CA-C	-5.59	1.46	1.53
1	3-A	80	TYR	CA-C	-5.59	1.46	1.52
2	3-B	414	ALA	C-O	-5.59	1.17	1.24
2	3-B	871	ASN	N-CA	-5.59	1.39	1.46
5	3-R	127	LYS	CA-C	-5.59	1.46	1.53
2	2-B	148	LEU	CA-C	-5.58	1.45	1.52
3	2-C	612	THR	N-CA	-5.58	1.39	1.46
7	2-Z	145	ARG	CA-C	-5.58	1.45	1.52
2	3-B	148	LEU	CA-C	-5.58	1.45	1.52
3	3-C	612	THR	N-CA	-5.58	1.39	1.46
2	1-B	99	ILE	CA-C	-5.58	1.45	1.52
3	1-C	193	TYR	CA-C	-5.58	1.46	1.52
5	1-R	109	ARG	N-CA	-5.58	1.38	1.46
2	2-B	99	ILE	CA-C	-5.58	1.45	1.52
3	2-C	193	TYR	CA-C	-5.58	1.46	1.52
5	2-R	109	ARG	N-CA	-5.58	1.38	1.46
6	2-K	216	SER	CA-C	-5.58	1.45	1.52
2	3-B	99	ILE	CA-C	-5.58	1.45	1.52
5	3-R	109	ARG	N-CA	-5.58	1.38	1.46
2	1-B	413	ALA	CA-C	-5.58	1.45	1.52
5	2-R	34	LEU	CA-C	-5.58	1.45	1.52
2	3-B	413	ALA	CA-C	-5.58	1.45	1.52
3	2-C	677	ALA	CA-C	-5.58	1.45	1.52
2	3-B	57	LEU	CA-C	-5.58	1.45	1.52
3	3-C	677	ALA	CA-C	-5.58	1.45	1.52
2	1-B	138	PHE	CA-C	-5.58	1.45	1.52
2	1-B	326	HIS	N-CA	-5.58	1.40	1.46
3	1-C	825	PRO	C-N	5.58	1.40	1.33
2	2-B	138	PHE	CA-C	-5.58	1.45	1.52
2	2-B	326	HIS	N-CA	-5.58	1.40	1.46
3	2-C	825	PRO	C-N	5.58	1.40	1.33
2	3-B	138	PHE	CA-C	-5.58	1.45	1.52
2	3-B	326	HIS	N-CA	-5.58	1.40	1.46
3	3-C	825	PRO	C-N	5.58	1.40	1.33
1	1-A	570	VAL	C-O	-5.57	1.18	1.24
2	1-B	439	VAL	N-CA	-5.57	1.40	1.46
3	1-C	232	VAL	N-CA	-5.57	1.39	1.46
6	1-G	804	ILE	C-N	5.57	1.40	1.33
7	1-L	14	LYS	N-CA	-5.57	1.39	1.46
1	2-A	570	VAL	C-O	-5.57	1.18	1.24
3	2-C	232	VAL	N-CA	-5.57	1.39	1.46
6	2-G	804	ILE	C-N	5.57	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	2-L	14	LYS	N-CA	-5.57	1.39	1.46
1	3-A	570	VAL	C-O	-5.57	1.18	1.24
2	3-B	439	VAL	N-CA	-5.57	1.40	1.46
6	3-G	804	ILE	C-N	5.57	1.40	1.33
7	3-L	14	LYS	N-CA	-5.57	1.39	1.46
1	2-A	220	ILE	CA-C	-5.57	1.46	1.52
2	2-B	835	SER	CA-C	-5.57	1.46	1.52
1	3-A	220	ILE	CA-C	-5.57	1.46	1.52
2	3-B	835	SER	CA-C	-5.57	1.46	1.52
3	1-C	655	LYS	CA-C	-5.57	1.45	1.52
6	1-G	93	LYS	N-CA	-5.57	1.39	1.46
3	2-C	655	LYS	CA-C	-5.57	1.45	1.52
6	2-G	93	LYS	N-CA	-5.57	1.39	1.46
3	3-C	655	LYS	CA-C	-5.57	1.45	1.52
1	2-A	609	ASP	CA-C	-5.57	1.45	1.52
1	3-A	609	ASP	CA-C	-5.57	1.45	1.52
3	1-C	555	ALA	N-CA	-5.56	1.39	1.46
6	1-G	88	CYS	N-CA	-5.56	1.39	1.46
6	1-K	44	CYS	N-CA	-5.56	1.39	1.46
3	2-C	555	ALA	N-CA	-5.56	1.39	1.46
6	2-G	88	CYS	N-CA	-5.56	1.39	1.46
6	2-K	44	CYS	N-CA	-5.56	1.39	1.46
3	3-C	555	ALA	N-CA	-5.56	1.39	1.46
4	1-D	49	VAL	CA-C	-5.56	1.45	1.52
4	2-D	49	VAL	CA-C	-5.56	1.45	1.52
4	3-D	49	VAL	CA-C	-5.56	1.45	1.52
6	1-G	309	ARG	CA-C	-5.56	1.45	1.52
6	2-G	309	ARG	CA-C	-5.56	1.45	1.52
2	1-B	302	ASP	CA-C	-5.55	1.45	1.52
3	1-C	688	GLU	CA-C	-5.55	1.45	1.52
6	1-K	265	MET	N-CA	-5.55	1.39	1.46
7	1-L	110	GLU	CA-C	-5.55	1.45	1.53
2	2-B	302	ASP	CA-C	-5.55	1.45	1.52
3	2-C	688	GLU	CA-C	-5.55	1.45	1.52
6	2-K	265	MET	N-CA	-5.55	1.39	1.46
7	2-L	110	GLU	CA-C	-5.55	1.45	1.53
2	3-B	302	ASP	CA-C	-5.55	1.45	1.52
3	3-C	688	GLU	CA-C	-5.55	1.45	1.52
7	3-L	110	GLU	CA-C	-5.55	1.45	1.53
3	1-C	556	HIS	CA-C	-5.55	1.45	1.52
3	2-C	556	HIS	CA-C	-5.55	1.45	1.52
1	3-A	744	GLU	CA-C	-5.55	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	556	HIS	CA-C	-5.55	1.45	1.52
3	1-C	110	THR	CA-C	-5.55	1.45	1.52
5	1-R	101	GLY	CA-C	-5.55	1.45	1.52
1	2-A	452	ASN	CA-C	-5.55	1.45	1.52
3	2-C	110	THR	CA-C	-5.55	1.45	1.52
5	2-R	101	GLY	CA-C	-5.55	1.45	1.52
1	3-A	452	ASN	CA-C	-5.55	1.45	1.52
3	3-C	110	THR	CA-C	-5.55	1.45	1.52
5	3-R	101	GLY	CA-C	-5.55	1.45	1.52
5	1-R	123	VAL	N-CA	-5.55	1.39	1.46
5	2-R	123	VAL	N-CA	-5.55	1.39	1.46
5	3-R	123	VAL	N-CA	-5.55	1.39	1.46
3	1-C	398	HIS	CA-C	-5.54	1.45	1.52
6	1-G	188	ASP	CA-C	-5.54	1.46	1.53
3	2-C	398	HIS	CA-C	-5.54	1.45	1.52
6	2-G	188	ASP	CA-C	-5.54	1.46	1.53
3	3-C	398	HIS	CA-C	-5.54	1.45	1.52
6	3-G	188	ASP	CA-C	-5.54	1.46	1.53
6	2-K	106	THR	N-CA	-5.54	1.39	1.46
2	1-B	356	LEU	CA-C	-5.54	1.45	1.52
3	1-C	357	THR	CA-C	-5.54	1.46	1.52
2	2-B	356	LEU	CA-C	-5.54	1.45	1.52
2	3-B	356	LEU	CA-C	-5.54	1.45	1.52
3	3-C	357	THR	CA-C	-5.54	1.46	1.52
6	1-G	403	THR	CA-C	-5.54	1.45	1.52
6	2-G	403	THR	CA-C	-5.54	1.45	1.52
3	1-C	254	ARG	CA-C	-5.54	1.46	1.52
1	2-A	680	VAL	CA-C	-5.54	1.45	1.52
3	2-C	254	ARG	CA-C	-5.54	1.46	1.52
1	3-A	680	VAL	CA-C	-5.54	1.45	1.52
5	2-R	22	MET	CA-C	-5.53	1.46	1.52
3	1-C	207	ASP	CA-C	-5.53	1.44	1.52
3	2-C	207	ASP	CA-C	-5.53	1.44	1.52
7	2-Z	30	TYR	N-CA	-5.53	1.39	1.46
7	3-Z	30	TYR	N-CA	-5.53	1.39	1.46
2	1-B	857	GLN	N-CA	-5.53	1.39	1.46
3	1-C	777	LEU	CA-C	-5.53	1.45	1.52
1	2-A	705	PHE	CA-C	-5.53	1.45	1.52
2	2-B	857	GLN	N-CA	-5.53	1.39	1.46
3	2-C	777	LEU	CA-C	-5.53	1.45	1.52
1	3-A	705	PHE	CA-C	-5.53	1.45	1.52
2	3-B	857	GLN	N-CA	-5.53	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	777	LEU	CA-C	-5.53	1.45	1.52
6	2-K	111	LYS	N-CA	-5.53	1.39	1.46
2	2-B	803	ASN	N-CA	-5.52	1.38	1.45
2	3-B	803	ASN	N-CA	-5.52	1.38	1.45
3	1-C	436	GLY	CA-C	-5.52	1.45	1.52
3	2-C	436	GLY	CA-C	-5.52	1.45	1.52
6	2-K	147	ALA	CA-C	-5.52	1.45	1.52
6	1-K	302	ALA	N-CA	-5.52	1.39	1.46
6	1-K	804	ILE	C-N	5.52	1.40	1.33
6	2-K	302	ALA	N-CA	-5.52	1.39	1.46
6	2-K	804	ILE	C-N	5.52	1.40	1.33
6	1-G	55	ILE	N-CA	-5.52	1.39	1.46
6	1-K	56	ASN	CA-C	-5.52	1.45	1.52
6	2-G	55	ILE	N-CA	-5.52	1.39	1.46
6	2-K	56	ASN	CA-C	-5.52	1.45	1.52
5	1-M	89	ILE	N-CA	-5.51	1.39	1.46
1	2-A	623	GLN	N-CA	-5.51	1.39	1.46
5	2-M	89	ILE	N-CA	-5.51	1.39	1.46
1	3-A	623	GLN	N-CA	-5.51	1.39	1.46
5	3-M	89	ILE	N-CA	-5.51	1.39	1.46
4	1-D	78	GLU	N-CA	-5.51	1.39	1.46
5	1-R	134	MET	C-N	5.51	1.41	1.33
4	2-D	78	GLU	N-CA	-5.51	1.39	1.46
5	2-R	134	MET	C-N	5.51	1.41	1.33
4	3-D	78	GLU	N-CA	-5.51	1.39	1.46
5	3-R	134	MET	C-N	5.51	1.41	1.33
2	1-B	350	GLU	N-CA	-5.51	1.39	1.46
2	2-B	350	GLU	N-CA	-5.51	1.39	1.46
2	3-B	350	GLU	N-CA	-5.51	1.39	1.46
2	2-B	950	GLY	CA-C	-5.51	1.46	1.52
7	2-Z	41	GLN	N-CA	-5.51	1.39	1.46
2	3-B	950	GLY	CA-C	-5.51	1.46	1.52
7	3-Z	41	GLN	N-CA	-5.51	1.39	1.46
2	1-B	408	ARG	N-CA	-5.50	1.39	1.46
2	3-B	408	ARG	N-CA	-5.50	1.39	1.46
2	1-B	312	VAL	CA-C	-5.50	1.45	1.52
4	1-D	240	ASP	CA-C	-5.50	1.45	1.52
6	1-G	543	ASN	CA-C	-5.50	1.45	1.52
2	2-B	312	VAL	CA-C	-5.50	1.45	1.52
4	2-D	240	ASP	CA-C	-5.50	1.45	1.52
6	2-G	543	ASN	CA-C	-5.50	1.45	1.52
2	3-B	312	VAL	CA-C	-5.50	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	3-D	240	ASP	CA-C	-5.50	1.45	1.52
2	1-B	353	LYS	N-CA	-5.50	1.39	1.46
2	1-B	476	ILE	CA-C	-5.50	1.45	1.52
6	1-G	691	SER	C-N	5.50	1.40	1.33
2	2-B	353	LYS	N-CA	-5.50	1.39	1.46
6	2-G	691	SER	C-N	5.50	1.40	1.33
2	3-B	353	LYS	N-CA	-5.50	1.39	1.46
2	3-B	476	ILE	CA-C	-5.50	1.45	1.52
1	2-A	147	GLU	N-CA	-5.50	1.39	1.46
1	3-A	147	GLU	N-CA	-5.50	1.39	1.46
6	1-G	191	MET	CA-C	-5.50	1.45	1.52
6	1-G	192	VAL	N-CA	-5.50	1.40	1.46
6	2-G	191	MET	CA-C	-5.50	1.45	1.52
6	2-G	192	VAL	N-CA	-5.50	1.40	1.46
6	3-G	191	MET	CA-C	-5.50	1.45	1.52
6	3-G	192	VAL	N-CA	-5.50	1.40	1.46
2	1-B	333	LEU	CA-C	-5.50	1.45	1.52
6	1-G	178	VAL	CA-C	-5.50	1.45	1.52
2	2-B	333	LEU	CA-C	-5.50	1.45	1.52
6	2-G	178	VAL	CA-C	-5.50	1.45	1.52
2	1-B	337	VAL	N-CA	-5.49	1.40	1.46
3	1-C	203	ILE	N-CA	-5.49	1.39	1.46
3	1-C	522	GLU	CA-C	-5.49	1.46	1.52
2	2-B	337	VAL	N-CA	-5.49	1.40	1.46
3	2-C	203	ILE	N-CA	-5.49	1.39	1.46
3	3-C	522	GLU	CA-C	-5.49	1.46	1.52
6	2-K	148	ILE	CA-C	-5.49	1.45	1.52
1	1-A	578	VAL	C-N	5.49	1.41	1.33
2	1-B	318	ASP	N-CA	-5.49	1.39	1.46
1	2-A	578	VAL	C-N	5.49	1.41	1.33
2	2-B	318	ASP	N-CA	-5.49	1.39	1.46
1	3-A	578	VAL	C-N	5.49	1.41	1.33
2	3-B	318	ASP	N-CA	-5.49	1.39	1.46
1	2-A	313	GLY	CA-C	-5.49	1.44	1.52
1	3-A	313	GLY	CA-C	-5.49	1.44	1.52
6	1-G	84	LEU	CA-C	-5.49	1.45	1.52
6	2-G	84	LEU	CA-C	-5.49	1.45	1.52
2	1-B	192	ILE	CA-C	-5.49	1.46	1.52
3	1-C	483	GLU	CA-C	-5.49	1.45	1.52
6	1-G	682	GLU	CA-C	5.49	1.59	1.52
2	2-B	192	ILE	CA-C	-5.49	1.46	1.52
3	2-C	483	GLU	CA-C	-5.49	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-G	682	GLU	CA-C	5.49	1.59	1.52
1	3-A	794	LEU	CA-C	-5.49	1.47	1.53
2	3-B	192	ILE	CA-C	-5.49	1.46	1.52
3	3-C	483	GLU	CA-C	-5.49	1.45	1.52
6	1-G	532	LEU	N-CA	-5.48	1.39	1.46
6	1-K	702	GLN	CA-C	-5.48	1.46	1.52
7	1-L	28	ALA	CA-C	-5.48	1.45	1.52
6	2-G	532	LEU	N-CA	-5.48	1.39	1.46
5	2-R	65	VAL	CA-C	-5.48	1.45	1.52
6	2-K	104	ILE	CA-C	-5.48	1.45	1.52
6	2-K	702	GLN	CA-C	-5.48	1.46	1.52
7	2-L	28	ALA	CA-C	-5.48	1.45	1.52
6	3-K	702	GLN	CA-C	-5.48	1.46	1.52
7	3-L	28	ALA	CA-C	-5.48	1.45	1.52
5	1-M	20	ILE	CA-C	-5.48	1.45	1.52
1	2-A	439	ASN	CA-C	-5.48	1.46	1.52
5	2-M	20	ILE	CA-C	-5.48	1.45	1.52
1	3-A	439	ASN	CA-C	-5.48	1.46	1.52
5	3-M	20	ILE	CA-C	-5.48	1.45	1.52
1	1-A	253	SER	CA-C	-5.48	1.45	1.52
2	1-B	304	ILE	CA-C	-5.48	1.45	1.52
2	2-B	304	ILE	CA-C	-5.48	1.45	1.52
1	3-A	253	SER	CA-C	-5.48	1.45	1.52
2	3-B	304	ILE	CA-C	-5.48	1.45	1.52
6	2-K	102	VAL	N-CA	-5.48	1.39	1.46
1	2-A	285	GLN	N-CA	-5.47	1.39	1.46
1	3-A	285	GLN	N-CA	-5.47	1.39	1.46
3	1-C	506	THR	CA-C	-5.47	1.46	1.52
3	1-C	537	THR	CA-C	-5.47	1.45	1.52
1	2-A	716	LEU	N-CA	-5.47	1.39	1.46
3	2-C	506	THR	CA-C	-5.47	1.46	1.52
3	2-C	537	THR	CA-C	-5.47	1.45	1.52
1	3-A	716	LEU	N-CA	-5.47	1.39	1.46
3	3-C	506	THR	CA-C	-5.47	1.46	1.52
3	3-C	537	THR	CA-C	-5.47	1.45	1.52
2	1-B	274	ALA	CA-C	-5.47	1.45	1.52
2	2-B	274	ALA	CA-C	-5.47	1.45	1.52
7	2-Z	76	TYR	CA-C	-5.47	1.46	1.52
2	3-B	274	ALA	CA-C	-5.47	1.45	1.52
6	1-G	160	LEU	CA-C	-5.47	1.45	1.52
6	2-G	160	LEU	CA-C	-5.47	1.45	1.52
1	2-A	75	ILE	N-CA	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3-A	75	ILE	N-CA	-5.46	1.39	1.46
2	1-B	98	GLU	CA-C	-5.46	1.46	1.52
2	2-B	98	GLU	CA-C	-5.46	1.46	1.52
2	3-B	98	GLU	CA-C	-5.46	1.46	1.52
1	1-A	718	LYS	CA-C	-5.46	1.45	1.52
3	1-C	570	ASP	CA-C	-5.46	1.45	1.52
7	1-Z	17	LEU	N-CA	-5.46	1.39	1.45
1	2-A	718	LYS	CA-C	-5.46	1.45	1.52
3	2-C	570	ASP	CA-C	-5.46	1.45	1.52
7	2-Z	17	LEU	N-CA	-5.46	1.39	1.45
1	3-A	718	LYS	CA-C	-5.46	1.45	1.52
3	3-C	570	ASP	CA-C	-5.46	1.45	1.52
7	3-Z	17	LEU	N-CA	-5.46	1.39	1.45
2	1-B	461	PHE	CA-C	-5.46	1.45	1.52
3	1-C	440	GLY	CA-C	-5.46	1.48	1.52
5	1-F	29	GLY	N-CA	-5.46	1.37	1.45
7	1-L	120	GLY	CA-C	-5.46	1.46	1.52
2	2-B	910	LEU	CA-C	-5.46	1.46	1.52
3	2-C	440	GLY	CA-C	-5.46	1.48	1.52
5	2-F	29	GLY	N-CA	-5.46	1.37	1.45
7	2-L	120	GLY	CA-C	-5.46	1.46	1.52
2	3-B	461	PHE	CA-C	-5.46	1.45	1.52
2	3-B	910	LEU	CA-C	-5.46	1.46	1.52
7	3-L	120	GLY	CA-C	-5.46	1.46	1.52
2	1-B	431	ALA	CA-C	-5.46	1.45	1.52
2	3-B	431	ALA	CA-C	-5.46	1.45	1.52
1	2-A	598	LYS	N-CA	-5.45	1.39	1.46
1	3-A	598	LYS	N-CA	-5.45	1.39	1.46
6	1-K	771	ASN	N-CA	-5.45	1.39	1.46
1	2-A	694	TYR	N-CA	-5.45	1.39	1.46
2	2-B	796	ASP	CA-C	-5.45	1.46	1.52
6	2-K	771	ASN	N-CA	-5.45	1.39	1.46
1	3-A	694	TYR	N-CA	-5.45	1.39	1.46
2	3-B	796	ASP	CA-C	-5.45	1.46	1.52
7	2-Z	66	THR	CA-C	-5.45	1.45	1.52
2	2-B	852	ASP	N-CA	-5.44	1.39	1.46
2	3-B	852	ASP	N-CA	-5.44	1.39	1.46
3	1-C	218	ASN	CA-C	-5.44	1.45	1.52
6	1-G	68	GLU	N-CA	-5.44	1.39	1.46
3	2-C	218	ASN	CA-C	-5.44	1.45	1.52
6	2-G	68	GLU	N-CA	-5.44	1.39	1.46
3	1-C	400	SER	CA-C	-5.44	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	1-L	28	ALA	N-CA	-5.44	1.39	1.46
3	2-C	400	SER	CA-C	-5.44	1.45	1.52
7	2-L	28	ALA	N-CA	-5.44	1.39	1.46
1	3-A	229	VAL	N-CA	-5.44	1.40	1.46
3	3-C	400	SER	CA-C	-5.44	1.45	1.52
7	3-L	28	ALA	N-CA	-5.44	1.39	1.46
3	1-C	248	SER	CA-C	-5.44	1.45	1.52
1	2-A	595	THR	C-N	-5.44	1.26	1.34
3	2-C	248	SER	CA-C	-5.44	1.45	1.52
1	3-A	595	THR	C-N	-5.44	1.26	1.34
3	1-C	323	GLN	CA-C	-5.44	1.46	1.52
6	1-K	682	GLU	CA-C	5.44	1.58	1.52
7	1-L	123	LEU	N-CA	-5.44	1.39	1.46
3	2-C	323	GLN	CA-C	-5.44	1.46	1.52
6	2-K	682	GLU	CA-C	5.44	1.58	1.52
7	2-L	123	LEU	N-CA	-5.44	1.39	1.46
3	3-C	323	GLN	CA-C	-5.44	1.46	1.52
7	3-L	123	LEU	N-CA	-5.44	1.39	1.46
6	1-G	647	VAL	CA-C	-5.44	1.46	1.52
6	2-G	647	VAL	CA-C	-5.44	1.46	1.52
6	2-K	166	LEU	C-O	-5.43	1.17	1.24
2	1-B	287	SER	CA-C	-5.43	1.45	1.52
2	1-B	421	MET	CA-C	-5.43	1.45	1.52
2	2-B	287	SER	CA-C	-5.43	1.45	1.52
2	2-B	421	MET	CA-C	-5.43	1.45	1.52
2	3-B	287	SER	CA-C	-5.43	1.45	1.52
2	3-B	421	MET	CA-C	-5.43	1.45	1.52
6	1-G	230	CYS	CA-C	-5.43	1.46	1.52
6	2-G	230	CYS	CA-C	-5.43	1.46	1.52
6	3-G	230	CYS	CA-C	-5.43	1.46	1.52
6	2-G	365	SER	CA-C	-5.43	1.45	1.52
6	1-K	772	PHE	CA-C	-5.43	1.46	1.52
7	2-Z	122	PHE	N-CA	-5.43	1.40	1.46
6	2-K	133	ASP	CA-C	-5.43	1.45	1.52
6	2-K	772	PHE	CA-C	-5.43	1.46	1.52
6	1-K	691	SER	C-N	5.42	1.40	1.33
1	2-A	701	ASP	CA-C	-5.42	1.45	1.52
6	2-K	198	GLY	CA-C	-5.42	1.46	1.52
6	2-K	691	SER	C-N	5.42	1.40	1.33
1	3-A	701	ASP	CA-C	-5.42	1.45	1.52
5	1-M	91	VAL	CA-C	-5.42	1.46	1.52
5	2-M	91	VAL	CA-C	-5.42	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-M	91	VAL	CA-C	-5.42	1.46	1.52
2	1-B	326	HIS	CA-C	-5.42	1.46	1.52
2	2-B	326	HIS	CA-C	-5.42	1.46	1.52
2	3-B	326	HIS	CA-C	-5.42	1.46	1.52
1	1-A	499	ASP	CA-C	-5.42	1.45	1.52
3	1-C	718	GLY	CA-C	-5.42	1.46	1.52
1	2-A	499	ASP	CA-C	-5.42	1.45	1.52
3	2-C	607	ASP	CA-C	-5.42	1.45	1.52
3	2-C	718	GLY	CA-C	-5.42	1.46	1.52
6	2-K	148	ILE	N-CA	-5.42	1.40	1.46
1	3-A	499	ASP	CA-C	-5.42	1.45	1.52
3	3-C	607	ASP	CA-C	-5.42	1.45	1.52
3	3-C	718	GLY	CA-C	-5.42	1.46	1.52
3	1-C	176	SER	N-CA	-5.42	1.41	1.46
2	2-B	755	VAL	CA-C	-5.42	1.46	1.52
3	2-C	176	SER	N-CA	-5.42	1.41	1.46
2	3-B	755	VAL	CA-C	-5.42	1.46	1.52
3	3-C	176	SER	N-CA	-5.42	1.41	1.46
2	1-B	311	ASN	CA-C	-5.42	1.45	1.52
2	2-B	311	ASN	CA-C	-5.42	1.45	1.52
2	3-B	311	ASN	CA-C	-5.42	1.45	1.52
3	1-C	143	HIS	N-CA	-5.41	1.40	1.46
3	2-C	143	HIS	N-CA	-5.41	1.40	1.46
3	3-C	143	HIS	N-CA	-5.41	1.40	1.46
2	1-B	276	LYS	N-CA	-5.41	1.39	1.46
2	2-B	276	LYS	N-CA	-5.41	1.39	1.46
2	3-B	276	LYS	N-CA	-5.41	1.39	1.46
5	1-F	65	VAL	N-CA	-5.41	1.39	1.46
5	2-F	65	VAL	N-CA	-5.41	1.39	1.46
6	2-K	180	GLU	CA-C	-5.41	1.45	1.52
6	1-G	478	ASN	CA-C	-5.41	1.45	1.52
6	2-G	478	ASN	CA-C	-5.41	1.45	1.52
3	1-C	554	ILE	N-CA	-5.41	1.40	1.46
3	2-C	554	ILE	N-CA	-5.41	1.40	1.46
3	3-C	554	ILE	N-CA	-5.41	1.40	1.46
1	1-A	512	VAL	CA-C	-5.41	1.46	1.52
1	2-A	512	VAL	CA-C	-5.41	1.46	1.52
7	2-Z	127	GLU	N-CA	-5.41	1.39	1.46
1	3-A	512	VAL	CA-C	-5.41	1.46	1.52
6	1-G	137	LEU	CA-C	-5.40	1.45	1.52
6	2-G	137	LEU	CA-C	-5.40	1.45	1.52
6	2-G	262	LYS	CA-C	-5.40	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	651	LEU	CA-C	-5.40	1.45	1.52
1	3-A	651	LEU	CA-C	-5.40	1.45	1.52
2	1-B	97	TRP	CA-C	-5.40	1.45	1.52
2	1-B	316	VAL	CA-C	-5.40	1.44	1.52
2	2-B	97	TRP	CA-C	-5.40	1.45	1.52
2	2-B	316	VAL	CA-C	-5.40	1.44	1.52
2	3-B	97	TRP	CA-C	-5.40	1.45	1.52
2	3-B	316	VAL	CA-C	-5.40	1.44	1.52
6	1-K	859	ARG	CA-C	-5.40	1.46	1.52
6	2-K	859	ARG	CA-C	-5.40	1.46	1.52
6	3-K	859	ARG	CA-C	-5.40	1.46	1.52
6	2-G	772	PHE	CA-C	-5.40	1.46	1.52
1	2-A	133	GLY	CA-C	-5.39	1.44	1.51
1	3-A	133	GLY	CA-C	-5.39	1.44	1.51
3	1-C	213	ILE	N-CA	-5.39	1.39	1.46
3	2-C	213	ILE	N-CA	-5.39	1.39	1.46
1	1-A	722	ILE	N-CA	-5.39	1.39	1.46
3	1-C	756	PHE	CA-C	-5.39	1.46	1.52
1	2-A	722	ILE	N-CA	-5.39	1.39	1.46
3	2-C	756	PHE	CA-C	-5.39	1.46	1.52
1	3-A	722	ILE	N-CA	-5.39	1.39	1.46
3	3-C	756	PHE	CA-C	-5.39	1.46	1.52
7	1-Z	91	MET	N-CA	-5.39	1.39	1.46
6	1-K	258	CYS	CA-C	-5.39	1.45	1.52
7	2-Z	91	MET	N-CA	-5.39	1.39	1.46
6	2-K	258	CYS	CA-C	-5.39	1.45	1.52
4	1-D	114	ASP	CA-C	-5.38	1.45	1.52
4	2-D	114	ASP	CA-C	-5.38	1.45	1.52
4	3-D	114	ASP	CA-C	-5.38	1.45	1.52
4	1-D	58	TYR	CA-C	-5.38	1.46	1.52
4	2-D	58	TYR	CA-C	-5.38	1.46	1.52
4	3-D	58	TYR	CA-C	-5.38	1.46	1.52
1	2-A	428	VAL	CA-C	-5.38	1.46	1.52
1	3-A	428	VAL	CA-C	-5.38	1.46	1.52
1	2-A	444	ILE	CA-C	-5.37	1.47	1.53
1	3-A	444	ILE	CA-C	-5.37	1.47	1.53
2	1-B	340	ILE	CA-C	-5.37	1.46	1.52
6	1-G	68	GLU	CA-C	-5.37	1.45	1.52
2	2-B	340	ILE	CA-C	-5.37	1.46	1.52
2	2-B	819	VAL	N-CA	-5.37	1.39	1.46
6	2-G	68	GLU	CA-C	-5.37	1.45	1.52
2	3-B	819	VAL	N-CA	-5.37	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-B	126	HIS	C-N	-5.37	1.25	1.33
2	1-B	359	ALA	N-CA	-5.37	1.39	1.46
5	1-F	77	LEU	N-CA	-5.37	1.39	1.46
2	2-B	126	HIS	C-N	-5.37	1.25	1.33
2	2-B	359	ALA	N-CA	-5.37	1.39	1.46
5	2-F	77	LEU	N-CA	-5.37	1.39	1.46
2	3-B	126	HIS	C-N	-5.37	1.25	1.33
2	3-B	359	ALA	N-CA	-5.37	1.39	1.46
1	2-A	107	TRP	C-N	5.37	1.41	1.33
1	3-A	107	TRP	C-N	5.37	1.41	1.33
7	2-Z	128	ILE	CA-C	-5.37	1.46	1.52
1	1-A	669	ASP	N-CA	-5.36	1.39	1.46
6	1-G	520	ASP	CA-C	-5.36	1.45	1.52
1	2-A	669	ASP	N-CA	-5.36	1.39	1.46
2	2-B	810	GLU	N-CA	-5.36	1.38	1.46
6	2-G	520	ASP	CA-C	-5.36	1.45	1.52
1	3-A	669	ASP	N-CA	-5.36	1.39	1.46
2	3-B	810	GLU	N-CA	-5.36	1.38	1.46
6	1-G	771	ASN	N-CA	-5.36	1.40	1.46
6	2-G	771	ASN	N-CA	-5.36	1.40	1.46
3	1-C	642	GLU	N-CA	-5.36	1.40	1.46
6	1-K	250	PRO	CA-C	-5.36	1.45	1.52
3	2-C	642	GLU	N-CA	-5.36	1.40	1.46
5	2-R	55	THR	N-CA	-5.36	1.39	1.46
6	2-K	250	PRO	CA-C	-5.36	1.45	1.52
3	3-C	642	GLU	N-CA	-5.36	1.40	1.46
3	1-C	181	LEU	N-CA	-5.36	1.39	1.45
3	2-C	181	LEU	N-CA	-5.36	1.39	1.45
3	3-C	181	LEU	N-CA	-5.36	1.39	1.45
2	1-B	454	VAL	N-CA	-5.36	1.40	1.46
6	2-K	90	LEU	N-CA	-5.36	1.40	1.46
2	3-B	454	VAL	N-CA	-5.36	1.40	1.46
1	1-A	255	ALA	N-CA	-5.36	1.40	1.46
3	1-C	83	VAL	CA-C	-5.36	1.46	1.52
4	1-D	3	LEU	CA-C	-5.36	1.46	1.52
6	1-G	800	ALA	CA-C	-5.36	1.45	1.52
3	2-C	83	VAL	CA-C	-5.36	1.46	1.52
4	2-D	3	LEU	CA-C	-5.36	1.46	1.52
6	2-G	800	ALA	CA-C	-5.36	1.45	1.52
1	3-A	255	ALA	N-CA	-5.36	1.40	1.46
3	3-C	83	VAL	CA-C	-5.36	1.46	1.52
4	3-D	3	LEU	CA-C	-5.36	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3-G	800	ALA	CA-C	-5.36	1.45	1.52
7	1-L	15	ALA	CA-C	-5.35	1.46	1.52
7	2-L	15	ALA	CA-C	-5.35	1.46	1.52
7	3-L	15	ALA	CA-C	-5.35	1.46	1.52
3	1-C	122	LEU	CA-C	-5.35	1.46	1.52
3	2-C	122	LEU	CA-C	-5.35	1.46	1.52
3	3-C	122	LEU	CA-C	-5.35	1.46	1.52
3	1-C	70	ASN	CA-C	-5.35	1.46	1.52
3	2-C	70	ASN	CA-C	-5.35	1.46	1.52
3	3-C	70	ASN	CA-C	-5.35	1.46	1.52
3	1-C	143	HIS	CA-C	-5.35	1.46	1.52
3	1-C	781	ASN	CA-C	-5.35	1.45	1.52
4	1-D	149	GLU	N-CA	-5.35	1.40	1.46
2	2-B	77	ILE	N-CA	-5.35	1.40	1.46
3	2-C	143	HIS	CA-C	-5.35	1.46	1.52
3	2-C	781	ASN	CA-C	-5.35	1.45	1.52
4	2-D	149	GLU	N-CA	-5.35	1.40	1.46
2	3-B	77	ILE	N-CA	-5.35	1.40	1.46
3	3-C	143	HIS	CA-C	-5.35	1.46	1.52
3	3-C	781	ASN	CA-C	-5.35	1.45	1.52
4	3-D	149	GLU	N-CA	-5.35	1.40	1.46
1	1-A	677	LEU	CA-C	-5.35	1.46	1.52
6	1-K	723	THR	CA-C	-5.35	1.46	1.52
1	2-A	626	ILE	N-CA	-5.35	1.39	1.46
1	2-A	677	LEU	CA-C	-5.35	1.46	1.52
6	2-G	859	ARG	CA-C	-5.35	1.46	1.52
6	2-K	723	THR	CA-C	-5.35	1.46	1.52
1	3-A	626	ILE	N-CA	-5.35	1.39	1.46
1	3-A	677	LEU	CA-C	-5.35	1.46	1.52
6	3-G	859	ARG	CA-C	-5.35	1.46	1.52
6	3-K	723	THR	CA-C	-5.35	1.46	1.52
3	1-C	262	ARG	N-CA	-5.35	1.39	1.45
3	1-C	662	VAL	CA-C	-5.35	1.46	1.52
6	1-G	249	SER	N-CA	-5.35	1.42	1.46
3	2-C	262	ARG	N-CA	-5.35	1.39	1.45
3	2-C	662	VAL	CA-C	-5.35	1.46	1.52
6	2-G	249	SER	N-CA	-5.35	1.42	1.46
3	3-C	662	VAL	CA-C	-5.35	1.46	1.52
2	1-B	235	GLY	CA-C	-5.34	1.47	1.52
2	1-B	305	ILE	CA-C	-5.34	1.45	1.52
6	1-G	723	THR	CA-C	-5.34	1.46	1.52
2	2-B	235	GLY	CA-C	-5.34	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-B	305	ILE	CA-C	-5.34	1.45	1.52
6	2-G	723	THR	CA-C	-5.34	1.46	1.52
2	3-B	235	GLY	CA-C	-5.34	1.47	1.52
2	3-B	305	ILE	CA-C	-5.34	1.45	1.52
6	1-K	800	ALA	CA-C	-5.34	1.45	1.52
7	2-Z	29	LYS	N-CA	-5.34	1.39	1.46
6	2-K	800	ALA	CA-C	-5.34	1.45	1.52
7	3-Z	29	LYS	N-CA	-5.34	1.39	1.46
3	1-C	478	CYS	N-CA	-5.34	1.39	1.46
3	2-C	478	CYS	N-CA	-5.34	1.39	1.46
3	3-C	478	CYS	N-CA	-5.34	1.39	1.46
2	1-B	35	PRO	CA-C	5.34	1.57	1.52
2	1-B	449	LEU	CA-C	-5.34	1.45	1.52
3	1-C	57	ASP	CA-C	-5.34	1.46	1.52
2	2-B	922	ALA	CA-C	-5.34	1.46	1.52
3	2-C	57	ASP	CA-C	-5.34	1.46	1.52
2	3-B	35	PRO	CA-C	5.34	1.57	1.52
2	3-B	449	LEU	CA-C	-5.34	1.45	1.52
2	3-B	922	ALA	CA-C	-5.34	1.46	1.52
3	3-C	57	ASP	CA-C	-5.34	1.46	1.52
2	1-B	369	GLU	C-N	-5.34	1.26	1.33
2	2-B	369	GLU	C-N	-5.34	1.26	1.33
2	3-B	369	GLU	C-N	-5.34	1.26	1.33
2	1-B	130	PHE	CA-C	-5.34	1.45	1.52
7	1-Z	78	TYR	CA-C	-5.34	1.46	1.52
2	2-B	130	PHE	CA-C	-5.34	1.45	1.52
6	2-G	848	LEU	CA-C	-5.34	1.46	1.52
7	2-Z	78	TYR	CA-C	-5.34	1.46	1.52
2	3-B	130	PHE	CA-C	-5.34	1.45	1.52
6	3-G	848	LEU	CA-C	-5.34	1.46	1.52
4	1-D	163	ALA	CA-C	-5.33	1.46	1.52
6	1-K	295	PHE	CA-C	-5.33	1.45	1.52
7	1-L	114	LEU	N-CA	-5.33	1.40	1.46
4	2-D	163	ALA	CA-C	-5.33	1.46	1.52
6	2-K	295	PHE	CA-C	-5.33	1.45	1.52
7	2-L	114	LEU	N-CA	-5.33	1.40	1.46
4	3-D	163	ALA	CA-C	-5.33	1.46	1.52
7	3-L	114	LEU	N-CA	-5.33	1.40	1.46
3	1-C	90	GLU	CA-C	-5.33	1.46	1.52
3	2-C	90	GLU	CA-C	-5.33	1.46	1.52
3	3-C	90	GLU	CA-C	-5.33	1.46	1.52
3	1-C	505	VAL	CA-C	-5.33	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-M	53	VAL	CA-C	-5.33	1.46	1.52
3	2-C	505	VAL	CA-C	-5.33	1.46	1.52
5	2-M	53	VAL	CA-C	-5.33	1.46	1.52
3	3-C	505	VAL	CA-C	-5.33	1.46	1.52
5	3-M	53	VAL	CA-C	-5.33	1.46	1.52
3	1-C	27	GLU	CA-C	-5.33	1.46	1.52
6	1-K	848	LEU	CA-C	-5.33	1.46	1.52
3	2-C	27	GLU	CA-C	-5.33	1.46	1.52
3	2-C	459	ARG	N-CA	-5.33	1.39	1.46
6	2-K	848	LEU	CA-C	-5.33	1.46	1.52
3	3-C	27	GLU	CA-C	-5.33	1.46	1.52
3	3-C	459	ARG	N-CA	-5.33	1.39	1.46
6	3-K	848	LEU	CA-C	-5.33	1.46	1.52
3	1-C	773	TRP	CA-C	-5.33	1.46	1.52
3	2-C	773	TRP	CA-C	-5.33	1.46	1.52
3	3-C	773	TRP	CA-C	-5.33	1.46	1.52
6	1-G	532	LEU	CA-C	-5.32	1.46	1.52
7	1-L	94	LEU	N-CA	-5.32	1.40	1.46
6	2-G	532	LEU	CA-C	-5.32	1.46	1.52
7	2-L	94	LEU	N-CA	-5.32	1.40	1.46
7	3-L	94	LEU	N-CA	-5.32	1.40	1.46
6	2-K	169	CYS	N-CA	-5.32	1.40	1.46
6	1-K	305	TYR	CA-C	-5.32	1.46	1.52
6	2-K	305	TYR	CA-C	-5.32	1.46	1.52
3	1-C	640	ASP	CA-C	-5.31	1.46	1.52
3	2-C	640	ASP	CA-C	-5.31	1.46	1.52
3	3-C	640	ASP	CA-C	-5.31	1.46	1.52
6	1-G	212	SER	CA-C	-5.31	1.46	1.52
6	1-G	399	ASN	CA-C	-5.31	1.46	1.52
6	2-G	212	SER	CA-C	-5.31	1.46	1.52
6	2-G	399	ASN	CA-C	-5.31	1.46	1.52
6	3-G	212	SER	CA-C	-5.31	1.46	1.52
1	1-A	662	LEU	C-N	-5.31	1.26	1.33
5	1-M	26	ASP	CA-C	-5.31	1.46	1.52
1	2-A	662	LEU	C-N	-5.31	1.26	1.33
5	2-M	26	ASP	CA-C	-5.31	1.46	1.52
1	3-A	662	LEU	C-N	-5.31	1.26	1.33
5	3-M	26	ASP	CA-C	-5.31	1.46	1.52
6	1-K	751	TYR	N-CA	-5.31	1.39	1.46
6	1-K	856	VAL	CA-C	-5.31	1.46	1.52
1	2-A	442	ASN	CA-C	-5.31	1.45	1.53
6	2-K	751	TYR	N-CA	-5.31	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-K	856	VAL	CA-C	-5.31	1.46	1.52
1	3-A	442	ASN	CA-C	-5.31	1.45	1.53
6	3-K	856	VAL	CA-C	-5.31	1.46	1.52
2	2-B	151	LEU	N-CA	-5.30	1.39	1.46
2	3-B	151	LEU	N-CA	-5.30	1.39	1.46
6	1-K	683	PRO	CA-C	5.30	1.58	1.52
6	2-K	683	PRO	CA-C	5.30	1.58	1.52
3	1-C	337	ASP	CA-C	-5.30	1.45	1.52
1	2-A	689	ILE	N-CA	-5.30	1.40	1.46
3	2-C	337	ASP	CA-C	-5.30	1.45	1.52
1	3-A	689	ILE	N-CA	-5.30	1.40	1.46
3	3-C	337	ASP	CA-C	-5.30	1.45	1.52
2	1-B	193	HIS	N-CA	-5.30	1.40	1.46
6	1-G	291	VAL	CA-C	-5.30	1.46	1.52
7	1-Z	24	ASP	N-CA	-5.30	1.38	1.45
2	2-B	193	HIS	N-CA	-5.30	1.40	1.46
6	2-G	291	VAL	CA-C	-5.30	1.46	1.52
7	2-Z	24	ASP	N-CA	-5.30	1.38	1.45
2	3-B	193	HIS	N-CA	-5.30	1.40	1.46
7	3-Z	24	ASP	N-CA	-5.30	1.38	1.45
5	1-R	119	ALA	CA-C	-5.29	1.46	1.52
5	2-R	119	ALA	CA-C	-5.29	1.46	1.52
6	2-K	108	SER	CA-C	-5.29	1.45	1.52
5	3-R	119	ALA	CA-C	-5.29	1.46	1.52
2	3-B	74	LEU	CA-C	-5.29	1.45	1.52
6	1-G	293	GLN	CA-C	-5.29	1.46	1.52
5	1-R	116	LEU	CA-C	-5.29	1.45	1.52
6	2-G	293	GLN	CA-C	-5.29	1.46	1.52
5	2-R	116	LEU	CA-C	-5.29	1.45	1.52
5	3-R	116	LEU	CA-C	-5.29	1.45	1.52
3	1-C	424	PHE	N-CA	-5.29	1.39	1.46
3	1-C	761	TYR	N-CA	-5.29	1.40	1.46
6	1-G	477	TYR	N-CA	-5.29	1.40	1.46
3	2-C	424	PHE	N-CA	-5.29	1.39	1.46
3	2-C	761	TYR	N-CA	-5.29	1.40	1.46
6	2-G	477	TYR	N-CA	-5.29	1.40	1.46
3	3-C	424	PHE	N-CA	-5.29	1.39	1.46
3	3-C	761	TYR	N-CA	-5.29	1.40	1.46
3	1-C	368	VAL	N-CA	-5.28	1.40	1.46
3	3-C	368	VAL	N-CA	-5.28	1.40	1.46
3	1-C	734	LEU	CA-C	-5.28	1.46	1.52
3	2-C	734	LEU	CA-C	-5.28	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	734	LEU	CA-C	-5.28	1.46	1.52
6	1-G	637	VAL	CA-C	-5.28	1.46	1.52
6	2-G	637	VAL	CA-C	-5.28	1.46	1.52
3	1-C	237	PHE	CA-C	-5.28	1.46	1.52
5	1-M	72	ASP	CA-C	-5.28	1.45	1.52
3	2-C	237	PHE	CA-C	-5.28	1.46	1.52
5	2-M	72	ASP	CA-C	-5.28	1.45	1.52
5	3-M	72	ASP	CA-C	-5.28	1.45	1.52
3	1-C	437	PHE	CA-C	-5.27	1.45	1.52
3	2-C	437	PHE	CA-C	-5.27	1.45	1.52
7	1-L	25	ARG	CA-C	-5.27	1.46	1.52
7	2-L	25	ARG	CA-C	-5.27	1.46	1.52
7	3-L	25	ARG	CA-C	-5.27	1.46	1.52
2	1-B	382	THR	CA-C	-5.27	1.45	1.52
3	1-C	153	LYS	CA-C	-5.27	1.46	1.52
6	1-G	480	VAL	N-CA	-5.27	1.40	1.46
7	1-L	80	ILE	CA-C	-5.27	1.46	1.52
3	2-C	153	LYS	CA-C	-5.27	1.46	1.52
3	2-C	810	TRP	N-CA	-5.27	1.40	1.46
6	2-G	480	VAL	N-CA	-5.27	1.40	1.46
7	2-L	80	ILE	CA-C	-5.27	1.46	1.52
3	3-C	153	LYS	CA-C	-5.27	1.46	1.52
7	3-L	80	ILE	CA-C	-5.27	1.46	1.52
1	1-A	265	LEU	CA-C	-5.26	1.46	1.52
1	1-A	668	LEU	CA-C	-5.26	1.45	1.52
1	2-A	265	LEU	CA-C	-5.26	1.46	1.52
1	2-A	668	LEU	CA-C	-5.26	1.45	1.52
1	3-A	265	LEU	CA-C	-5.26	1.46	1.52
1	3-A	668	LEU	CA-C	-5.26	1.45	1.52
7	1-L	66	THR	CA-C	-5.26	1.46	1.52
7	2-L	66	THR	CA-C	-5.26	1.46	1.52
7	3-L	66	THR	CA-C	-5.26	1.46	1.52
6	1-K	637	VAL	CA-C	-5.26	1.46	1.52
3	2-C	469	PHE	N-CA	-5.26	1.39	1.46
6	2-K	637	VAL	CA-C	-5.26	1.46	1.52
3	3-C	469	PHE	N-CA	-5.26	1.39	1.46
3	1-C	273	ARG	N-CA	-5.26	1.39	1.46
7	1-L	146	VAL	CA-C	-5.26	1.46	1.53
3	2-C	273	ARG	N-CA	-5.26	1.39	1.46
7	2-L	146	VAL	CA-C	-5.26	1.46	1.53
7	3-L	146	VAL	CA-C	-5.26	1.46	1.53
1	1-A	267	ASN	CA-C	-5.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	267	ASN	CA-C	-5.26	1.46	1.52
1	3-A	267	ASN	CA-C	-5.26	1.46	1.52
6	2-K	84	LEU	N-CA	-5.25	1.40	1.46
6	2-K	237	SER	CA-C	-5.25	1.46	1.52
3	1-C	512	ASP	CA-C	-5.25	1.47	1.53
4	1-D	7	ALA	CA-C	-5.25	1.46	1.52
5	1-F	76	SER	CA-C	-5.25	1.45	1.52
1	2-A	429	LEU	CA-C	-5.25	1.46	1.52
3	2-C	512	ASP	CA-C	-5.25	1.47	1.53
4	2-D	7	ALA	CA-C	-5.25	1.46	1.52
5	2-F	76	SER	CA-C	-5.25	1.45	1.52
1	3-A	429	LEU	CA-C	-5.25	1.46	1.52
3	3-C	512	ASP	CA-C	-5.25	1.47	1.53
2	1-B	268	LEU	CA-C	-5.25	1.45	1.53
2	1-B	394	TYR	N-CA	-5.25	1.40	1.46
1	2-A	392	ASP	N-CA	-5.25	1.39	1.46
2	2-B	268	LEU	CA-C	-5.25	1.45	1.53
1	3-A	392	ASP	N-CA	-5.25	1.39	1.46
2	3-B	268	LEU	CA-C	-5.25	1.45	1.53
2	3-B	394	TYR	N-CA	-5.25	1.40	1.46
7	1-L	38	VAL	N-CA	-5.25	1.40	1.46
7	2-L	38	VAL	N-CA	-5.25	1.40	1.46
7	3-L	38	VAL	N-CA	-5.25	1.40	1.46
2	1-B	317	LEU	C-N	-5.24	1.26	1.34
2	1-B	381	LYS	CA-C	-5.24	1.46	1.52
6	1-G	210	ALA	N-CA	-5.24	1.40	1.46
2	2-B	317	LEU	C-N	-5.24	1.26	1.34
6	2-G	210	ALA	N-CA	-5.24	1.40	1.46
2	3-B	317	LEU	C-N	-5.24	1.26	1.34
6	3-G	210	ALA	N-CA	-5.24	1.40	1.46
6	2-K	163	SER	N-CA	-5.24	1.40	1.46
6	1-K	40	ASN	CA-C	-5.24	1.46	1.52
1	2-A	641	PHE	CA-C	-5.24	1.46	1.52
6	2-K	40	ASN	CA-C	-5.24	1.46	1.52
1	3-A	641	PHE	CA-C	-5.24	1.46	1.52
7	1-L	94	LEU	CA-C	-5.24	1.46	1.52
7	2-L	94	LEU	CA-C	-5.24	1.46	1.52
7	3-L	94	LEU	CA-C	-5.24	1.46	1.52
1	1-A	587	PRO	C-N	5.24	1.40	1.33
3	1-C	376	ILE	CA-C	-5.24	1.46	1.52
7	1-Z	110	GLU	CA-C	-5.24	1.46	1.52
1	2-A	430	ASP	CA-C	-5.24	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	587	PRO	C-N	5.24	1.40	1.33
7	2-Z	110	GLU	CA-C	-5.24	1.46	1.52
1	3-A	430	ASP	CA-C	-5.24	1.46	1.52
1	3-A	587	PRO	C-N	5.24	1.40	1.33
3	3-C	376	ILE	CA-C	-5.24	1.46	1.52
1	1-A	519	ASP	N-CA	-5.23	1.40	1.46
3	1-C	186	LYS	N-CA	-5.23	1.39	1.46
1	2-A	519	ASP	N-CA	-5.23	1.40	1.46
3	2-C	186	LYS	N-CA	-5.23	1.39	1.46
1	3-A	519	ASP	N-CA	-5.23	1.40	1.46
3	3-C	186	LYS	N-CA	-5.23	1.39	1.46
7	1-L	139	PRO	N-CA	-5.23	1.40	1.47
7	2-L	139	PRO	N-CA	-5.23	1.40	1.47
7	3-L	139	PRO	N-CA	-5.23	1.40	1.47
6	1-G	113	MET	N-CA	-5.23	1.40	1.46
2	2-B	800	ILE	N-CA	-5.23	1.40	1.46
6	2-G	113	MET	N-CA	-5.23	1.40	1.46
6	2-G	856	VAL	CA-C	-5.23	1.46	1.52
2	3-B	800	ILE	N-CA	-5.23	1.40	1.46
6	3-G	856	VAL	CA-C	-5.23	1.46	1.52
5	1-F	138	GLU	CA-C	-5.23	1.46	1.52
5	2-F	138	GLU	CA-C	-5.23	1.46	1.52
1	1-A	471	SER	CA-C	-5.23	1.45	1.52
2	1-B	301	ILE	N-CA	-5.23	1.40	1.46
2	1-B	419	VAL	N-CA	-5.23	1.40	1.46
1	2-A	471	SER	CA-C	-5.23	1.45	1.52
2	2-B	301	ILE	N-CA	-5.23	1.40	1.46
2	2-B	419	VAL	N-CA	-5.23	1.40	1.46
5	2-R	40	GLY	CA-C	-5.23	1.44	1.51
6	2-K	216	SER	N-CA	-5.23	1.39	1.46
1	3-A	471	SER	CA-C	-5.23	1.45	1.52
2	3-B	301	ILE	N-CA	-5.23	1.40	1.46
2	3-B	419	VAL	N-CA	-5.23	1.40	1.46
1	1-A	657	ASN	CA-C	-5.23	1.45	1.52
2	1-B	93	LEU	CA-C	-5.23	1.46	1.52
5	1-M	159	CYS	N-CA	-5.23	1.39	1.46
1	2-A	657	ASN	CA-C	-5.23	1.45	1.52
2	2-B	93	LEU	CA-C	-5.23	1.46	1.52
5	2-M	159	CYS	N-CA	-5.23	1.39	1.46
1	3-A	657	ASN	CA-C	-5.23	1.45	1.52
2	3-B	93	LEU	CA-C	-5.23	1.46	1.52
5	3-M	159	CYS	N-CA	-5.23	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	56	ASN	CA-C	-5.22	1.46	1.52
7	1-L	39	LYS	N-CA	-5.22	1.40	1.46
2	2-B	817	ASN	N-CA	-5.22	1.39	1.46
6	2-G	56	ASN	CA-C	-5.22	1.46	1.52
7	2-L	39	LYS	N-CA	-5.22	1.40	1.46
2	3-B	817	ASN	N-CA	-5.22	1.39	1.46
7	3-L	39	LYS	N-CA	-5.22	1.40	1.46
3	1-C	557	LEU	CA-C	-5.22	1.46	1.52
6	1-G	146	GLN	N-CA	-5.22	1.40	1.46
6	1-G	533	ASN	N-CA	-5.22	1.39	1.46
3	2-C	557	LEU	CA-C	-5.22	1.46	1.52
6	2-G	146	GLN	N-CA	-5.22	1.40	1.46
6	2-G	533	ASN	N-CA	-5.22	1.39	1.46
3	3-C	557	LEU	CA-C	-5.22	1.46	1.52
1	2-A	120	TRP	C-N	5.22	1.40	1.33
1	3-A	120	TRP	C-N	5.22	1.40	1.33
2	3-B	62	ILE	N-CA	-5.22	1.40	1.46
6	1-G	683	PRO	CA-C	5.22	1.57	1.52
6	2-G	683	PRO	CA-C	5.22	1.57	1.52
3	1-C	632	GLN	CA-C	-5.22	1.46	1.52
6	1-G	63	THR	CA-C	-5.22	1.46	1.52
3	2-C	632	GLN	CA-C	-5.22	1.46	1.52
6	2-G	63	THR	CA-C	-5.22	1.46	1.52
7	2-Z	124	ALA	N-CA	-5.22	1.40	1.46
3	3-C	632	GLN	CA-C	-5.22	1.46	1.52
2	1-B	966	THR	CA-C	5.21	1.59	1.52
3	1-C	271	MET	CA-C	-5.21	1.44	1.52
7	1-L	95	ASN	CA-C	-5.21	1.46	1.52
1	2-A	147	GLU	CA-C	-5.21	1.46	1.52
1	2-A	391	TYR	N-CA	-5.21	1.39	1.46
2	2-B	966	THR	CA-C	5.21	1.59	1.52
3	2-C	271	MET	CA-C	-5.21	1.44	1.52
7	2-L	95	ASN	CA-C	-5.21	1.46	1.52
1	3-A	147	GLU	CA-C	-5.21	1.46	1.52
1	3-A	391	TYR	N-CA	-5.21	1.39	1.46
2	3-B	966	THR	CA-C	5.21	1.59	1.52
7	3-L	95	ASN	CA-C	-5.21	1.46	1.52
2	2-B	771	CYS	CA-C	-5.21	1.45	1.52
2	3-B	52	SER	N-CA	-5.21	1.40	1.46
2	3-B	771	CYS	CA-C	-5.21	1.45	1.52
3	1-C	317	ALA	CA-C	-5.21	1.46	1.52
3	1-C	443	SER	CA-C	-5.21	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	73	MET	N-CA	-5.21	1.40	1.46
7	1-L	89	MET	N-CA	-5.21	1.40	1.46
7	1-L	91	MET	N-CA	-5.21	1.40	1.46
3	2-C	317	ALA	CA-C	-5.21	1.46	1.52
3	2-C	443	SER	CA-C	-5.21	1.45	1.52
6	2-G	73	MET	N-CA	-5.21	1.40	1.46
6	2-K	237	SER	N-CA	-5.21	1.40	1.46
7	2-L	89	MET	N-CA	-5.21	1.40	1.46
7	2-L	91	MET	N-CA	-5.21	1.40	1.46
3	3-C	317	ALA	CA-C	-5.21	1.46	1.52
7	3-L	89	MET	N-CA	-5.21	1.40	1.46
7	3-L	91	MET	N-CA	-5.21	1.40	1.46
2	1-B	959	ILE	N-CA	-5.21	1.40	1.46
3	1-C	647	LEU	CA-C	-5.21	1.46	1.52
1	2-A	438	LYS	CA-C	-5.21	1.46	1.52
2	2-B	959	ILE	N-CA	-5.21	1.40	1.46
3	2-C	292	GLU	CA-C	-5.21	1.45	1.52
3	2-C	647	LEU	CA-C	-5.21	1.46	1.52
1	3-A	438	LYS	CA-C	-5.21	1.46	1.52
2	3-B	959	ILE	N-CA	-5.21	1.40	1.46
3	3-C	292	GLU	CA-C	-5.21	1.45	1.52
3	3-C	647	LEU	CA-C	-5.21	1.46	1.52
3	1-C	739	ASP	N-CA	-5.21	1.40	1.46
6	1-K	830	LEU	C-N	5.21	1.40	1.33
1	2-A	693	CYS	CA-C	-5.21	1.46	1.52
3	2-C	739	ASP	N-CA	-5.21	1.40	1.46
6	2-K	830	LEU	C-N	5.21	1.40	1.33
1	3-A	693	CYS	CA-C	-5.21	1.46	1.52
3	3-C	739	ASP	N-CA	-5.21	1.40	1.46
6	2-K	202	HIS	C-N	-5.21	1.27	1.33
6	1-G	34	PHE	CA-C	-5.20	1.45	1.52
6	1-G	145	LYS	N-CA	-5.20	1.40	1.46
6	2-G	34	PHE	CA-C	-5.20	1.45	1.52
6	2-G	145	LYS	N-CA	-5.20	1.40	1.46
6	3-G	34	PHE	CA-C	-5.20	1.45	1.52
2	1-B	192	ILE	N-CA	-5.20	1.40	1.46
2	2-B	192	ILE	N-CA	-5.20	1.40	1.46
2	3-B	192	ILE	N-CA	-5.20	1.40	1.46
2	1-B	284	VAL	CA-C	-5.20	1.45	1.52
2	2-B	284	VAL	CA-C	-5.20	1.45	1.52
3	2-C	678	ILE	N-CA	-5.20	1.40	1.46
2	3-B	284	VAL	CA-C	-5.20	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-C	678	ILE	N-CA	-5.20	1.40	1.46
1	1-A	476	ASP	CA-C	5.20	1.55	1.52
1	2-A	211	ALA	CA-C	-5.20	1.46	1.52
1	2-A	476	ASP	CA-C	5.20	1.55	1.52
1	3-A	211	ALA	CA-C	-5.20	1.46	1.52
1	3-A	476	ASP	CA-C	5.20	1.55	1.52
2	1-B	201	ASP	CA-C	-5.19	1.46	1.52
2	2-B	201	ASP	CA-C	-5.19	1.46	1.52
2	3-B	201	ASP	CA-C	-5.19	1.46	1.52
4	1-D	162	LYS	CA-C	-5.19	1.46	1.52
4	2-D	162	LYS	CA-C	-5.19	1.46	1.52
6	2-K	233	ILE	N-CA	-5.19	1.40	1.46
4	3-D	162	LYS	CA-C	-5.19	1.46	1.52
1	1-A	466	LEU	N-CA	-5.19	1.39	1.46
1	2-A	466	LEU	N-CA	-5.19	1.39	1.46
1	3-A	466	LEU	N-CA	-5.19	1.39	1.46
2	1-B	304	ILE	N-CA	-5.19	1.40	1.46
2	1-B	474	LEU	N-CA	-5.19	1.40	1.46
2	2-B	304	ILE	N-CA	-5.19	1.40	1.46
2	3-B	304	ILE	N-CA	-5.19	1.40	1.46
2	3-B	474	LEU	N-CA	-5.19	1.40	1.46
3	1-C	481	THR	CA-C	-5.19	1.47	1.53
3	2-C	468	ILE	CA-C	-5.19	1.46	1.52
3	2-C	481	THR	CA-C	-5.19	1.47	1.53
3	3-C	468	ILE	CA-C	-5.19	1.46	1.52
3	3-C	481	THR	CA-C	-5.19	1.47	1.53
6	1-G	483	GLU	CA-C	-5.19	1.46	1.53
6	1-G	725	SER	CA-C	-5.19	1.46	1.52
6	2-G	483	GLU	CA-C	-5.19	1.46	1.53
6	2-G	725	SER	CA-C	-5.19	1.46	1.52
3	1-C	258	SER	N-CA	-5.18	1.40	1.46
3	1-C	656	ILE	N-CA	-5.18	1.40	1.46
3	2-C	258	SER	N-CA	-5.18	1.40	1.46
3	2-C	656	ILE	N-CA	-5.18	1.40	1.46
6	2-G	872	SER	C-O	-5.18	1.18	1.24
3	3-C	656	ILE	N-CA	-5.18	1.40	1.46
6	3-G	872	SER	C-O	-5.18	1.18	1.24
2	2-B	938	VAL	N-CA	-5.18	1.39	1.46
2	3-B	938	VAL	N-CA	-5.18	1.39	1.46
5	1-M	78	TRP	N-CA	-5.18	1.39	1.46
5	2-M	78	TRP	N-CA	-5.18	1.39	1.46
5	3-M	78	TRP	N-CA	-5.18	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-C	492	SER	CA-C	-5.18	1.46	1.52
5	1-M	48	THR	N-CA	-5.18	1.39	1.46
1	2-A	639	LEU	N-CA	-5.18	1.40	1.46
3	2-C	492	SER	CA-C	-5.18	1.46	1.52
5	2-M	48	THR	N-CA	-5.18	1.39	1.46
1	3-A	639	LEU	N-CA	-5.18	1.40	1.46
3	3-C	492	SER	CA-C	-5.18	1.46	1.52
5	3-M	48	THR	N-CA	-5.18	1.39	1.46
2	2-B	811	ASN	N-CA	-5.18	1.39	1.46
5	2-R	30	LYS	N-CA	-5.18	1.40	1.46
5	2-R	35	TYR	N-CA	-5.18	1.39	1.46
2	3-B	811	ASN	N-CA	-5.18	1.39	1.46
3	1-C	450	TYR	N-CA	-5.18	1.39	1.45
6	1-G	90	LEU	N-CA	-5.18	1.40	1.46
3	2-C	450	TYR	N-CA	-5.18	1.39	1.45
6	2-G	90	LEU	N-CA	-5.18	1.40	1.46
3	3-C	450	TYR	N-CA	-5.18	1.39	1.45
2	1-B	272	SER	C-N	-5.17	1.27	1.34
4	1-D	106	CYS	CA-C	-5.17	1.46	1.52
6	1-G	75	LYS	CA-C	-5.17	1.45	1.52
5	1-R	128	GLN	CA-C	-5.17	1.46	1.52
1	2-A	615	VAL	CA-C	-5.17	1.46	1.52
2	2-B	272	SER	C-N	-5.17	1.27	1.34
4	2-D	106	CYS	CA-C	-5.17	1.46	1.52
6	2-G	75	LYS	CA-C	-5.17	1.45	1.52
5	2-R	128	GLN	CA-C	-5.17	1.46	1.52
1	3-A	615	VAL	CA-C	-5.17	1.46	1.52
2	3-B	272	SER	C-N	-5.17	1.27	1.34
4	3-D	106	CYS	CA-C	-5.17	1.46	1.52
5	3-R	128	GLN	CA-C	-5.17	1.46	1.52
2	1-B	181	PHE	N-CA	-5.17	1.39	1.46
1	2-A	286	THR	N-CA	-5.17	1.39	1.46
2	2-B	181	PHE	N-CA	-5.17	1.39	1.46
2	2-B	782	LYS	N-CA	-5.17	1.39	1.45
1	3-A	286	THR	N-CA	-5.17	1.39	1.46
2	3-B	181	PHE	N-CA	-5.17	1.39	1.46
2	3-B	782	LYS	N-CA	-5.17	1.39	1.45
1	1-A	465	LEU	CA-C	-5.17	1.45	1.52
3	1-C	425	LYS	CA-C	-5.17	1.46	1.52
6	1-G	294	LEU	N-CA	-5.17	1.40	1.46
6	1-K	51	ILE	CA-C	-5.17	1.46	1.52
5	1-M	20	ILE	N-CA	-5.17	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2-A	412	ARG	CA-C	-5.17	1.46	1.52
1	2-A	465	LEU	CA-C	-5.17	1.45	1.52
3	2-C	425	LYS	CA-C	-5.17	1.46	1.52
6	2-G	294	LEU	N-CA	-5.17	1.40	1.46
6	2-G	850	ASP	CA-C	-5.17	1.45	1.52
6	2-K	51	ILE	CA-C	-5.17	1.46	1.52
5	2-M	20	ILE	N-CA	-5.17	1.40	1.46
1	3-A	412	ARG	CA-C	-5.17	1.46	1.52
1	3-A	465	LEU	CA-C	-5.17	1.45	1.52
3	3-C	425	LYS	CA-C	-5.17	1.46	1.52
6	3-G	850	ASP	CA-C	-5.17	1.45	1.52
5	3-M	20	ILE	N-CA	-5.17	1.40	1.46
1	1-A	474	LEU	C-N	5.17	1.40	1.33
3	1-C	815	HIS	N-CA	-5.17	1.40	1.46
6	1-G	440	CYS	CA-C	-5.17	1.46	1.52
1	2-A	474	LEU	C-N	5.17	1.40	1.33
3	2-C	815	HIS	N-CA	-5.17	1.40	1.46
6	2-G	440	CYS	CA-C	-5.17	1.46	1.52
1	3-A	474	LEU	C-N	5.17	1.40	1.33
3	3-C	815	HIS	N-CA	-5.17	1.40	1.46
3	1-C	782	GLN	CA-C	-5.17	1.45	1.52
3	2-C	782	GLN	CA-C	-5.17	1.45	1.52
3	3-C	782	GLN	CA-C	-5.17	1.45	1.52
6	1-G	751	TYR	N-CA	-5.17	1.39	1.45
1	2-A	91	GLY	CA-C	-5.17	1.47	1.52
6	2-G	751	TYR	N-CA	-5.17	1.39	1.45
1	3-A	91	GLY	CA-C	-5.17	1.47	1.52
2	1-B	202	ALA	CA-C	-5.17	1.46	1.52
2	2-B	202	ALA	CA-C	-5.17	1.46	1.52
2	3-B	202	ALA	CA-C	-5.17	1.46	1.52
2	1-B	117	CYS	N-CA	-5.16	1.40	1.46
6	1-G	174	VAL	C-N	-5.16	1.27	1.33
6	1-G	297	SER	CA-C	-5.16	1.45	1.52
2	2-B	117	CYS	N-CA	-5.16	1.40	1.46
6	2-G	174	VAL	C-N	-5.16	1.27	1.33
6	2-G	297	SER	CA-C	-5.16	1.45	1.52
2	3-B	117	CYS	N-CA	-5.16	1.40	1.46
6	1-K	725	SER	CA-C	-5.16	1.46	1.52
6	2-K	88	CYS	N-CA	-5.16	1.40	1.46
6	2-K	725	SER	CA-C	-5.16	1.46	1.52
6	3-K	725	SER	CA-C	-5.16	1.46	1.52
6	1-G	147	ALA	N-CA	-5.16	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-G	830	LEU	C-N	5.16	1.40	1.33
6	2-G	147	ALA	N-CA	-5.16	1.40	1.46
6	2-G	830	LEU	C-N	5.16	1.40	1.33
6	3-G	830	LEU	C-N	5.16	1.40	1.33
1	1-A	661	ALA	CA-C	-5.16	1.46	1.52
2	1-B	375	LEU	N-CA	-5.16	1.40	1.46
3	1-C	156	ASN	N-CA	-5.16	1.39	1.46
1	2-A	661	ALA	CA-C	-5.16	1.46	1.52
2	2-B	375	LEU	N-CA	-5.16	1.40	1.46
3	2-C	156	ASN	N-CA	-5.16	1.39	1.46
1	3-A	661	ALA	CA-C	-5.16	1.46	1.52
2	3-B	375	LEU	N-CA	-5.16	1.40	1.46
3	3-C	156	ASN	N-CA	-5.16	1.39	1.46
4	1-D	129	GLN	N-CA	-5.15	1.40	1.46
4	2-D	129	GLN	N-CA	-5.15	1.40	1.46
4	3-D	129	GLN	N-CA	-5.15	1.40	1.46
1	2-A	681	ALA	C-O	-5.15	1.18	1.24
1	3-A	681	ALA	C-O	-5.15	1.18	1.24
2	1-B	471	ARG	N-CA	-5.15	1.40	1.46
3	1-C	529	TRP	N-CA	-5.15	1.39	1.46
2	3-B	471	ARG	N-CA	-5.15	1.40	1.46
3	3-C	529	TRP	N-CA	-5.15	1.39	1.46
6	2-K	85	ARG	N-CA	-5.15	1.40	1.46
3	1-C	340	ARG	C-N	5.15	1.39	1.32
6	1-K	639	LEU	CA-C	-5.15	1.45	1.52
1	2-A	34	GLN	CA-C	-5.15	1.46	1.52
2	2-B	855	PHE	N-CA	-5.15	1.40	1.46
3	2-C	340	ARG	C-N	5.15	1.39	1.32
6	2-K	639	LEU	CA-C	-5.15	1.45	1.52
1	3-A	34	GLN	CA-C	-5.15	1.46	1.52
2	3-B	855	PHE	N-CA	-5.15	1.40	1.46
3	3-C	340	ARG	C-N	5.15	1.39	1.32
1	2-A	704	SER	CA-C	-5.15	1.46	1.52
1	3-A	704	SER	CA-C	-5.15	1.46	1.52
7	1-L	15	ALA	N-CA	-5.14	1.39	1.46
7	2-L	15	ALA	N-CA	-5.14	1.39	1.46
7	3-L	15	ALA	N-CA	-5.14	1.39	1.46
7	1-Z	88	LEU	N-CA	-5.14	1.40	1.46
7	2-Z	88	LEU	N-CA	-5.14	1.40	1.46
6	2-K	86	ARG	CA-C	-5.14	1.45	1.52
1	2-A	162	TRP	CA-C	-5.14	1.46	1.52
1	3-A	162	TRP	CA-C	-5.14	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1-A	561	ILE	CA-C	-5.14	1.46	1.52
2	1-B	205	LYS	CA-C	-5.14	1.46	1.52
3	1-C	194	TYR	CA-C	-5.14	1.46	1.52
6	1-G	239	GLN	CA-C	-5.14	1.46	1.52
7	1-L	135	LEU	N-CA	-5.14	1.39	1.46
5	1-M	35	TYR	N-CA	-5.14	1.39	1.46
1	2-A	561	ILE	CA-C	-5.14	1.46	1.52
2	2-B	205	LYS	CA-C	-5.14	1.46	1.52
2	2-B	776	ALA	CA-C	-5.14	1.45	1.52
3	2-C	194	TYR	CA-C	-5.14	1.46	1.52
6	2-G	239	GLN	CA-C	-5.14	1.46	1.52
7	2-L	135	LEU	N-CA	-5.14	1.39	1.46
5	2-M	35	TYR	N-CA	-5.14	1.39	1.46
1	3-A	561	ILE	CA-C	-5.14	1.46	1.52
2	3-B	205	LYS	CA-C	-5.14	1.46	1.52
2	3-B	776	ALA	CA-C	-5.14	1.45	1.52
7	3-L	135	LEU	N-CA	-5.14	1.39	1.46
5	3-M	35	TYR	N-CA	-5.14	1.39	1.46
6	1-G	227	PHE	N-CA	-5.14	1.40	1.46
6	2-G	227	PHE	N-CA	-5.14	1.40	1.46
6	3-G	227	PHE	N-CA	-5.14	1.40	1.46
3	1-C	65	PHE	CA-C	-5.13	1.46	1.52
3	2-C	65	PHE	CA-C	-5.13	1.46	1.52
3	3-C	65	PHE	CA-C	-5.13	1.46	1.52
6	1-G	639	LEU	CA-C	-5.13	1.45	1.52
6	2-G	639	LEU	CA-C	-5.13	1.45	1.52
2	1-B	403	HIS	CA-C	-5.13	1.46	1.52
4	1-D	79	ASP	N-CA	-5.13	1.40	1.46
4	2-D	79	ASP	N-CA	-5.13	1.40	1.46
2	3-B	403	HIS	CA-C	-5.13	1.46	1.52
4	3-D	79	ASP	N-CA	-5.13	1.40	1.46
3	1-C	179	PHE	CA-C	-5.13	1.46	1.52
3	2-C	179	PHE	CA-C	-5.13	1.46	1.52
3	3-C	179	PHE	CA-C	-5.13	1.46	1.52
2	1-B	963	GLN	CA-C	-5.13	1.46	1.52
1	2-A	344	LEU	N-CA	-5.13	1.38	1.46
2	2-B	963	GLN	CA-C	-5.13	1.46	1.52
1	3-A	344	LEU	N-CA	-5.13	1.38	1.46
2	3-B	963	GLN	CA-C	-5.13	1.46	1.52
6	1-K	34	PHE	CA-C	-5.12	1.46	1.52
1	2-A	626	ILE	CA-C	-5.12	1.46	1.52
6	2-K	34	PHE	CA-C	-5.12	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3-A	626	ILE	CA-C	-5.12	1.46	1.52
3	1-C	144	TYR	CA-C	-5.12	1.46	1.52
4	1-D	241	LYS	CA-C	-5.12	1.46	1.52
3	2-C	144	TYR	CA-C	-5.12	1.46	1.52
4	2-D	241	LYS	CA-C	-5.12	1.46	1.52
2	3-B	52	SER	CA-C	-5.12	1.46	1.52
3	3-C	144	TYR	CA-C	-5.12	1.46	1.52
4	3-D	241	LYS	CA-C	-5.12	1.46	1.52
7	1-Z	80	ILE	CA-C	-5.12	1.46	1.52
7	2-Z	80	ILE	CA-C	-5.12	1.46	1.52
1	1-A	263	LEU	CA-C	-5.12	1.46	1.52
1	1-A	553	VAL	C-N	5.12	1.40	1.33
1	2-A	263	LEU	CA-C	-5.12	1.46	1.52
1	2-A	553	VAL	C-N	5.12	1.40	1.33
1	3-A	263	LEU	CA-C	-5.12	1.46	1.52
1	3-A	553	VAL	C-N	5.12	1.40	1.33
6	1-G	48	LEU	CA-C	-5.12	1.46	1.52
5	1-R	97	ARG	N-CA	-5.12	1.39	1.46
1	2-A	65	LEU	CA-C	-5.12	1.46	1.52
6	2-G	48	LEU	CA-C	-5.12	1.46	1.52
5	2-R	97	ARG	N-CA	-5.12	1.39	1.46
5	3-R	97	ARG	N-CA	-5.12	1.39	1.46
6	2-K	227	PHE	N-CA	-5.11	1.39	1.46
3	1-C	530	VAL	N-CA	-5.11	1.39	1.46
6	1-K	872	SER	C-O	-5.11	1.18	1.24
6	2-K	872	SER	C-O	-5.11	1.18	1.24
3	3-C	530	VAL	N-CA	-5.11	1.39	1.46
6	3-K	872	SER	C-O	-5.11	1.18	1.24
6	1-G	534	VAL	CA-C	-5.11	1.46	1.52
6	2-G	534	VAL	CA-C	-5.11	1.46	1.52
2	1-B	90	LYS	CA-C	-5.11	1.46	1.52
6	1-G	27	VAL	N-CA	-5.11	1.40	1.46
5	1-R	154	PHE	N-CA	-5.11	1.39	1.46
2	2-B	90	LYS	CA-C	-5.11	1.46	1.52
6	2-G	27	VAL	N-CA	-5.11	1.40	1.46
5	2-R	154	PHE	N-CA	-5.11	1.39	1.46
1	3-A	758	ALA	N-CA	-5.11	1.40	1.46
2	3-B	90	LYS	CA-C	-5.11	1.46	1.52
6	3-G	27	VAL	N-CA	-5.11	1.40	1.46
5	3-R	154	PHE	N-CA	-5.11	1.39	1.46
3	1-C	817	ASP	CA-C	-5.11	1.45	1.52
5	1-F	31	THR	N-CA	-5.11	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-F	79	ARG	CA-C	-5.11	1.45	1.52
3	2-C	817	ASP	CA-C	-5.11	1.45	1.52
5	2-F	31	THR	N-CA	-5.11	1.40	1.46
5	2-F	79	ARG	CA-C	-5.11	1.45	1.52
3	3-C	817	ASP	CA-C	-5.11	1.45	1.52
6	1-G	683	PRO	N-CA	5.10	1.52	1.46
6	2-G	683	PRO	N-CA	5.10	1.52	1.46
3	1-C	420	GLU	CA-C	-5.10	1.46	1.52
3	2-C	420	GLU	CA-C	-5.10	1.46	1.52
3	3-C	420	GLU	CA-C	-5.10	1.46	1.52
7	1-L	109	VAL	CA-C	-5.10	1.45	1.52
7	2-L	109	VAL	CA-C	-5.10	1.45	1.52
7	3-L	109	VAL	CA-C	-5.10	1.45	1.52
1	2-A	110	SER	CA-C	-5.10	1.46	1.52
1	3-A	110	SER	CA-C	-5.10	1.46	1.52
2	1-B	260	PHE	CA-C	-5.10	1.46	1.52
6	1-K	44	CYS	CA-C	-5.10	1.46	1.52
2	2-B	260	PHE	CA-C	-5.10	1.46	1.52
6	2-G	868	ILE	CA-C	-5.10	1.46	1.52
6	2-K	44	CYS	CA-C	-5.10	1.46	1.52
2	3-B	260	PHE	CA-C	-5.10	1.46	1.52
6	3-G	868	ILE	CA-C	-5.10	1.46	1.52
3	1-C	51	LYS	CA-C	-5.09	1.46	1.52
3	2-C	51	LYS	CA-C	-5.09	1.46	1.52
3	3-C	51	LYS	CA-C	-5.09	1.46	1.52
3	1-C	111	GLN	CA-C	-5.09	1.45	1.52
3	2-C	111	GLN	CA-C	-5.09	1.45	1.52
6	2-K	197	LEU	CA-C	-5.09	1.45	1.52
3	3-C	111	GLN	CA-C	-5.09	1.45	1.52
2	1-B	190	GLU	N-CA	-5.09	1.40	1.46
6	1-G	798	GLU	CA-C	-5.09	1.46	1.52
7	1-L	30	TYR	N-CA	-5.09	1.39	1.46
2	2-B	190	GLU	N-CA	-5.09	1.40	1.46
6	2-G	798	GLU	CA-C	-5.09	1.46	1.52
6	2-K	119	ASN	N-CA	-5.09	1.40	1.46
7	2-L	30	TYR	N-CA	-5.09	1.39	1.46
2	3-B	190	GLU	N-CA	-5.09	1.40	1.46
6	3-G	798	GLU	CA-C	-5.09	1.46	1.52
7	3-L	30	TYR	N-CA	-5.09	1.39	1.46
2	1-B	165	TYR	CA-C	-5.09	1.46	1.52
5	1-F	96	ASP	CA-C	-5.09	1.46	1.52
6	1-K	301	ALA	CA-C	-5.09	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-B	165	TYR	CA-C	-5.09	1.46	1.52
5	2-F	96	ASP	CA-C	-5.09	1.46	1.52
7	2-Z	45	GLU	N-CA	-5.09	1.40	1.46
6	2-K	301	ALA	CA-C	-5.09	1.46	1.52
2	3-B	165	TYR	CA-C	-5.09	1.46	1.52
7	3-Z	45	GLU	N-CA	-5.09	1.40	1.46
6	1-K	300	LYS	CA-C	-5.09	1.45	1.53
6	2-K	300	LYS	CA-C	-5.09	1.45	1.53
2	1-B	473	ALA	N-CA	-5.09	1.40	1.46
3	1-C	644	ARG	N-CA	-5.09	1.40	1.46
3	1-C	646	GLU	CA-C	-5.09	1.46	1.52
7	1-L	125	VAL	N-CA	-5.09	1.40	1.46
1	2-A	638	ALA	CA-C	-5.09	1.46	1.52
3	2-C	644	ARG	N-CA	-5.09	1.40	1.46
3	2-C	646	GLU	CA-C	-5.09	1.46	1.52
7	2-L	125	VAL	N-CA	-5.09	1.40	1.46
1	3-A	638	ALA	CA-C	-5.09	1.46	1.52
2	3-B	473	ALA	N-CA	-5.09	1.40	1.46
3	3-C	644	ARG	N-CA	-5.09	1.40	1.46
3	3-C	646	GLU	CA-C	-5.09	1.46	1.52
7	3-L	125	VAL	N-CA	-5.09	1.40	1.46
4	1-D	129	GLN	CA-C	-5.08	1.46	1.52
4	2-D	129	GLN	CA-C	-5.08	1.46	1.52
4	3-D	129	GLN	CA-C	-5.08	1.46	1.52
4	1-D	9	CYS	CA-C	-5.08	1.46	1.52
4	2-D	9	CYS	CA-C	-5.08	1.46	1.52
1	1-A	658	ILE	N-CA	-5.08	1.39	1.46
1	2-A	658	ILE	N-CA	-5.08	1.39	1.46
1	3-A	658	ILE	N-CA	-5.08	1.39	1.46
4	1-D	27	THR	C-O	-5.08	1.17	1.24
6	1-K	683	PRO	N-CA	5.08	1.52	1.46
4	2-D	27	THR	C-O	-5.08	1.17	1.24
6	2-K	683	PRO	N-CA	5.08	1.52	1.46
4	3-D	27	THR	C-O	-5.08	1.17	1.24
5	1-F	28	ALA	CA-C	-5.07	1.45	1.52
5	2-F	28	ALA	CA-C	-5.07	1.45	1.52
2	1-B	319	ARG	N-CA	-5.07	1.40	1.46
3	1-C	314	ILE	N-CA	-5.07	1.40	1.46
2	2-B	319	ARG	N-CA	-5.07	1.40	1.46
3	2-C	314	ILE	N-CA	-5.07	1.40	1.46
2	3-B	319	ARG	N-CA	-5.07	1.40	1.46
3	3-C	314	ILE	N-CA	-5.07	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-B	269	GLN	N-CA	-5.07	1.39	1.46
5	1-M	75	ARG	N-CA	-5.07	1.40	1.46
2	2-B	269	GLN	N-CA	-5.07	1.39	1.46
5	2-M	75	ARG	N-CA	-5.07	1.40	1.46
2	3-B	269	GLN	N-CA	-5.07	1.39	1.46
5	3-M	75	ARG	N-CA	-5.07	1.40	1.46
6	1-G	175	LYS	C-N	-5.07	1.27	1.34
6	2-G	175	LYS	C-N	-5.07	1.27	1.34
1	1-A	552	ALA	N-CA	-5.07	1.40	1.46
3	1-C	621	VAL	N-CA	-5.07	1.40	1.46
3	1-C	780	VAL	N-CA	-5.07	1.40	1.46
4	1-D	162	LYS	N-CA	-5.07	1.40	1.46
7	1-L	105	LEU	N-CA	-5.07	1.39	1.46
1	2-A	552	ALA	N-CA	-5.07	1.40	1.46
3	2-C	621	VAL	N-CA	-5.07	1.40	1.46
3	2-C	780	VAL	N-CA	-5.07	1.40	1.46
4	2-D	162	LYS	N-CA	-5.07	1.40	1.46
7	2-L	105	LEU	N-CA	-5.07	1.39	1.46
1	3-A	552	ALA	N-CA	-5.07	1.40	1.46
3	3-C	621	VAL	N-CA	-5.07	1.40	1.46
3	3-C	780	VAL	N-CA	-5.07	1.40	1.46
4	3-D	162	LYS	N-CA	-5.07	1.40	1.46
7	3-L	105	LEU	N-CA	-5.07	1.39	1.46
6	1-G	658	HIS	CA-C	-5.06	1.46	1.52
6	2-G	658	HIS	CA-C	-5.06	1.46	1.52
4	1-D	128	ALA	CA-C	-5.06	1.46	1.52
4	2-D	128	ALA	CA-C	-5.06	1.46	1.52
4	3-D	128	ALA	CA-C	-5.06	1.46	1.52
3	1-C	325	ALA	N-CA	-5.06	1.39	1.46
4	1-D	66	MET	CA-C	-5.06	1.46	1.52
3	2-C	325	ALA	N-CA	-5.06	1.39	1.46
4	2-D	66	MET	CA-C	-5.06	1.46	1.52
3	3-C	325	ALA	N-CA	-5.06	1.39	1.46
4	3-D	66	MET	CA-C	-5.06	1.46	1.52
2	1-B	295	ALA	CA-C	-5.06	1.46	1.52
1	2-A	629	LEU	N-CA	-5.06	1.40	1.46
2	2-B	295	ALA	CA-C	-5.06	1.46	1.52
1	3-A	629	LEU	N-CA	-5.06	1.40	1.46
2	3-B	295	ALA	CA-C	-5.06	1.46	1.52
5	1-R	125	ALA	CA-C	-5.06	1.46	1.52
5	2-R	125	ALA	CA-C	-5.06	1.46	1.52
5	3-R	125	ALA	CA-C	-5.06	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-M	47	PRO	N-CA	-5.06	1.41	1.47
5	2-M	47	PRO	N-CA	-5.06	1.41	1.47
5	3-M	47	PRO	N-CA	-5.06	1.41	1.47
6	1-K	658	HIS	CA-C	-5.05	1.46	1.52
6	2-K	658	HIS	CA-C	-5.05	1.46	1.52
4	1-D	9	CYS	N-CA	-5.05	1.39	1.45
6	1-G	121	ARG	N-CA	-5.05	1.40	1.46
6	1-G	156	SER	N-CA	-5.05	1.40	1.46
7	1-L	145	ARG	N-CA	-5.05	1.39	1.46
2	2-B	746	TYR	CA-C	-5.05	1.46	1.52
4	2-D	9	CYS	N-CA	-5.05	1.39	1.45
6	2-G	121	ARG	N-CA	-5.05	1.40	1.46
6	2-G	156	SER	N-CA	-5.05	1.40	1.46
7	2-L	145	ARG	N-CA	-5.05	1.39	1.46
2	3-B	746	TYR	CA-C	-5.05	1.46	1.52
7	3-L	145	ARG	N-CA	-5.05	1.39	1.46
1	1-A	521	LEU	N-CA	-5.05	1.40	1.46
1	2-A	521	LEU	N-CA	-5.05	1.40	1.46
1	3-A	521	LEU	N-CA	-5.05	1.40	1.46
3	1-C	397	ALA	N-CA	-5.05	1.40	1.46
3	1-C	399	ASP	N-CA	-5.05	1.40	1.46
3	2-C	397	ALA	N-CA	-5.05	1.40	1.46
3	2-C	399	ASP	N-CA	-5.05	1.40	1.46
3	3-C	397	ALA	N-CA	-5.05	1.40	1.46
3	3-C	399	ASP	N-CA	-5.05	1.40	1.46
5	1-R	85	THR	N-CA	-5.04	1.39	1.45
1	2-A	413	SER	N-CA	-5.04	1.40	1.46
5	2-R	85	THR	N-CA	-5.04	1.39	1.45
1	3-A	413	SER	N-CA	-5.04	1.40	1.46
3	1-C	689	CYS	CA-C	-5.04	1.46	1.52
6	1-G	307	ALA	N-CA	-5.04	1.40	1.46
7	1-L	66	THR	N-CA	-5.04	1.39	1.46
1	2-A	149	LEU	CA-C	-5.04	1.46	1.52
3	2-C	689	CYS	CA-C	-5.04	1.46	1.52
6	2-G	307	ALA	N-CA	-5.04	1.40	1.46
6	2-K	126	ARG	N-CA	-5.04	1.40	1.46
7	2-L	66	THR	N-CA	-5.04	1.39	1.46
1	3-A	149	LEU	CA-C	-5.04	1.46	1.52
3	3-C	689	CYS	CA-C	-5.04	1.46	1.52
7	3-L	66	THR	N-CA	-5.04	1.39	1.46
6	1-K	850	ASP	CA-C	-5.04	1.46	1.52
6	2-K	850	ASP	CA-C	-5.04	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3-K	850	ASP	CA-C	-5.04	1.46	1.52
2	1-B	371	LEU	C-O	-5.04	1.18	1.24
2	1-B	385	VAL	CA-C	-5.04	1.46	1.52
2	1-B	417	ILE	N-CA	-5.04	1.40	1.46
3	1-C	506	THR	N-CA	-5.04	1.40	1.46
3	1-C	544	ASN	N-CA	-5.04	1.39	1.45
2	2-B	371	LEU	C-O	-5.04	1.18	1.24
2	2-B	417	ILE	N-CA	-5.04	1.40	1.46
3	2-C	506	THR	N-CA	-5.04	1.40	1.46
3	2-C	544	ASN	N-CA	-5.04	1.39	1.45
3	2-C	616	GLU	N-CA	-5.04	1.40	1.46
2	3-B	371	LEU	C-O	-5.04	1.18	1.24
2	3-B	417	ILE	N-CA	-5.04	1.40	1.46
3	3-C	506	THR	N-CA	-5.04	1.40	1.46
3	3-C	544	ASN	N-CA	-5.04	1.39	1.45
3	3-C	616	GLU	N-CA	-5.04	1.40	1.46
6	1-K	255	ILE	N-CA	-5.04	1.40	1.46
6	1-K	798	GLU	CA-C	-5.04	1.46	1.52
6	2-K	255	ILE	N-CA	-5.04	1.40	1.46
6	2-K	798	GLU	CA-C	-5.04	1.46	1.52
6	3-K	798	GLU	CA-C	-5.04	1.46	1.52
1	2-A	314	MET	C-N	5.04	1.40	1.33
1	3-A	314	MET	C-N	5.04	1.40	1.33
6	2-K	69	ALA	CA-C	-5.03	1.46	1.52
6	1-G	766	LYS	CA-C	-5.03	1.46	1.52
6	2-G	766	LYS	CA-C	-5.03	1.46	1.52
6	2-K	144	MET	CA-C	-5.03	1.46	1.52
6	1-G	835	ARG	CA-C	-5.03	1.46	1.52
2	2-B	845	ILE	N-CA	-5.03	1.40	1.46
6	2-G	835	ARG	CA-C	-5.03	1.46	1.52
2	3-B	845	ILE	N-CA	-5.03	1.40	1.46
6	3-G	835	ARG	CA-C	-5.03	1.46	1.52
6	1-K	43	LYS	CA-C	-5.03	1.46	1.52
5	2-R	30	LYS	CA-C	-5.03	1.46	1.52
6	2-K	43	LYS	CA-C	-5.03	1.46	1.52
6	2-K	228	ALA	CA-C	-5.03	1.46	1.52
1	1-A	508	LYS	CA-C	-5.03	1.46	1.52
1	1-A	543	TYR	CA-C	-5.03	1.46	1.52
3	1-C	9	ARG	CA-C	-5.03	1.46	1.52
3	1-C	38	SER	CA-C	-5.03	1.46	1.52
3	1-C	361	ASN	N-CA	-5.03	1.38	1.45
6	1-K	287	PRO	CA-C	-5.03	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-M	19	ARG	N-CA	-5.03	1.40	1.46
1	2-A	74	LYS	N-CA	-5.03	1.39	1.46
1	2-A	508	LYS	CA-C	-5.03	1.46	1.52
1	2-A	543	TYR	CA-C	-5.03	1.46	1.52
3	2-C	9	ARG	CA-C	-5.03	1.46	1.52
3	2-C	38	SER	CA-C	-5.03	1.46	1.52
6	2-K	287	PRO	CA-C	-5.03	1.45	1.52
5	2-M	19	ARG	N-CA	-5.03	1.40	1.46
1	3-A	74	LYS	N-CA	-5.03	1.39	1.46
1	3-A	508	LYS	CA-C	-5.03	1.46	1.52
1	3-A	543	TYR	CA-C	-5.03	1.46	1.52
3	3-C	9	ARG	CA-C	-5.03	1.46	1.52
3	3-C	38	SER	CA-C	-5.03	1.46	1.52
3	3-C	361	ASN	N-CA	-5.03	1.38	1.45
5	3-M	19	ARG	N-CA	-5.03	1.40	1.46
6	1-G	296	CYS	CA-C	-5.02	1.46	1.52
2	2-B	832	VAL	CA-C	-5.02	1.46	1.52
6	2-G	296	CYS	CA-C	-5.02	1.46	1.52
2	3-B	832	VAL	CA-C	-5.02	1.46	1.52
6	1-K	835	ARG	CA-C	-5.02	1.46	1.52
6	2-K	835	ARG	CA-C	-5.02	1.46	1.52
3	1-C	259	SER	N-CA	-5.02	1.39	1.46
5	1-R	157	ALA	CA-C	-5.02	1.46	1.52
3	2-C	259	SER	N-CA	-5.02	1.39	1.46
5	2-R	157	ALA	CA-C	-5.02	1.46	1.52
5	3-R	157	ALA	CA-C	-5.02	1.46	1.52
2	1-B	434	ASP	C-N	-5.02	1.27	1.33
2	1-B	535	THR	C-N	5.02	1.40	1.33
2	3-B	434	ASP	C-N	-5.02	1.27	1.33
2	3-B	535	THR	C-N	5.02	1.40	1.33
1	1-A	542	ILE	N-CA	-5.01	1.40	1.46
1	1-A	561	ILE	N-CA	-5.01	1.40	1.46
2	1-B	104	THR	CA-C	-5.01	1.46	1.52
6	1-K	766	LYS	CA-C	-5.01	1.46	1.52
6	1-K	868	ILE	CA-C	-5.01	1.46	1.52
1	2-A	542	ILE	N-CA	-5.01	1.40	1.46
1	2-A	561	ILE	N-CA	-5.01	1.40	1.46
2	2-B	104	THR	CA-C	-5.01	1.46	1.52
3	2-C	457	LEU	CA-C	-5.01	1.46	1.52
6	2-K	766	LYS	CA-C	-5.01	1.46	1.52
6	2-K	868	ILE	CA-C	-5.01	1.46	1.52
1	3-A	542	ILE	N-CA	-5.01	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3-A	561	ILE	N-CA	-5.01	1.40	1.46
2	3-B	104	THR	CA-C	-5.01	1.46	1.52
3	3-C	457	LEU	CA-C	-5.01	1.46	1.52
6	3-K	868	ILE	CA-C	-5.01	1.46	1.52
2	1-B	294	LYS	N-CA	-5.01	1.40	1.46
3	1-C	11	LEU	CA-C	-5.01	1.46	1.52
2	2-B	294	LYS	N-CA	-5.01	1.40	1.46
3	2-C	11	LEU	CA-C	-5.01	1.46	1.52
2	3-B	294	LYS	N-CA	-5.01	1.40	1.46
3	3-C	11	LEU	CA-C	-5.01	1.46	1.52
6	1-G	70	PHE	N-CA	-5.01	1.40	1.46
6	1-G	285	LEU	N-CA	-5.01	1.40	1.46
6	2-G	70	PHE	N-CA	-5.01	1.40	1.46
6	2-G	285	LEU	N-CA	-5.01	1.40	1.46
2	2-B	835	SER	N-CA	-5.01	1.39	1.45
2	3-B	835	SER	N-CA	-5.01	1.39	1.45
3	1-C	68	ARG	CA-C	-5.01	1.46	1.52
5	1-R	84	ASN	N-CA	-5.01	1.39	1.46
3	2-C	68	ARG	CA-C	-5.01	1.46	1.52
5	2-R	61	ILE	CA-C	-5.01	1.46	1.52
5	2-R	84	ASN	N-CA	-5.01	1.39	1.46
7	2-Z	141	GLN	CA-C	-5.01	1.46	1.52
3	3-C	68	ARG	CA-C	-5.01	1.46	1.52
5	1-R	103	ALA	N-CA	-5.00	1.40	1.46
5	2-R	103	ALA	N-CA	-5.00	1.40	1.46
5	3-R	103	ALA	N-CA	-5.00	1.40	1.46
2	1-B	308	SER	N-CA	-5.00	1.39	1.46
3	1-C	125	LEU	CA-C	-5.00	1.46	1.52
2	2-B	308	SER	N-CA	-5.00	1.39	1.46
3	2-C	125	LEU	CA-C	-5.00	1.46	1.52
2	3-B	308	SER	N-CA	-5.00	1.39	1.46
3	3-C	125	LEU	CA-C	-5.00	1.46	1.52
2	1-B	966	THR	C-N	5.00	1.40	1.33
6	1-G	39	ILE	N-CA	-5.00	1.41	1.46
2	2-B	966	THR	C-N	5.00	1.40	1.33
6	2-G	39	ILE	N-CA	-5.00	1.41	1.46
2	3-B	966	THR	C-N	5.00	1.40	1.33
6	3-G	39	ILE	N-CA	-5.00	1.41	1.46

All (4680) bond angle outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-G	693	VAL	CA-C-N	-22.66	91.52	119.84
6	1-G	693	VAL	C-N-CA	-22.66	91.52	119.84
6	2-G	693	VAL	CA-C-N	-22.66	91.52	119.84
6	2-G	693	VAL	C-N-CA	-22.66	91.52	119.84
6	1-G	277	LEU	CA-C-N	-19.05	96.02	119.84
6	1-G	277	LEU	C-N-CA	-19.05	96.02	119.84
6	2-G	277	LEU	CA-C-N	-19.05	96.02	119.84
6	2-G	277	LEU	C-N-CA	-19.05	96.02	119.84
2	2-B	933	GLY	CA-C-N	-18.98	96.12	119.84
2	2-B	933	GLY	C-N-CA	-18.98	96.12	119.84
2	3-B	933	GLY	CA-C-N	-18.98	96.12	119.84
2	3-B	933	GLY	C-N-CA	-18.98	96.12	119.84
1	1-A	586	ARG	CA-C-N	18.91	141.28	120.66
1	1-A	586	ARG	C-N-CA	18.91	141.28	120.66
1	2-A	586	ARG	CA-C-N	18.91	141.28	120.66
1	2-A	586	ARG	C-N-CA	18.91	141.28	120.66
1	3-A	586	ARG	CA-C-N	18.91	141.28	120.66
1	3-A	586	ARG	C-N-CA	18.91	141.28	120.66
6	2-K	117	GLU	CA-C-N	18.14	146.05	120.29
6	2-K	117	GLU	C-N-CA	18.14	146.05	120.29
2	1-B	326	HIS	N-CA-C	-16.39	85.15	108.76
2	2-B	326	HIS	N-CA-C	-16.39	85.15	108.76
2	3-B	326	HIS	N-CA-C	-16.39	85.15	108.76
6	2-K	225	SER	CA-C-N	16.07	139.93	119.84
6	2-K	225	SER	C-N-CA	16.07	139.93	119.84
2	2-B	841	ILE	N-CA-C	15.43	126.31	110.72
2	3-B	841	ILE	N-CA-C	15.43	126.31	110.72
1	2-A	338	ASP	N-CA-C	-15.32	91.47	111.24
1	3-A	338	ASP	N-CA-C	-15.32	91.47	111.24
6	1-G	804	ILE	N-CA-C	15.09	124.71	110.53
6	2-G	804	ILE	N-CA-C	15.09	124.71	110.53
6	3-G	804	ILE	N-CA-C	15.09	124.71	110.53
6	1-K	804	ILE	N-CA-C	15.01	124.64	110.53
6	2-K	804	ILE	N-CA-C	15.01	124.64	110.53
6	1-K	277	LEU	CA-C-N	-14.86	101.27	119.84
6	1-K	277	LEU	C-N-CA	-14.86	101.27	119.84
6	2-K	277	LEU	CA-C-N	-14.86	101.27	119.84
6	2-K	277	LEU	C-N-CA	-14.86	101.27	119.84
1	2-A	595	THR	CA-C-O	14.82	130.21	119.68
1	3-A	595	THR	CA-C-O	14.82	130.21	119.68
2	1-B	325	GLU	CA-C-N	14.79	136.12	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	325	GLU	C-N-CA	14.79	136.12	122.37
2	2-B	325	GLU	CA-C-N	14.79	136.12	122.37
2	2-B	325	GLU	C-N-CA	14.79	136.12	122.37
2	3-B	325	GLU	CA-C-N	14.79	136.12	122.37
2	3-B	325	GLU	C-N-CA	14.79	136.12	122.37
1	2-A	214	HIS	CA-C-N	14.57	138.06	119.84
1	2-A	214	HIS	C-N-CA	14.57	138.06	119.84
1	3-A	214	HIS	CA-C-N	14.57	138.06	119.84
1	3-A	214	HIS	C-N-CA	14.57	138.06	119.84
2	2-B	760	VAL	N-CA-C	-14.44	87.90	108.11
2	3-B	760	VAL	N-CA-C	-14.44	87.90	108.11
1	3-A	229	VAL	N-CA-C	-14.42	87.92	108.11
1	3-A	227	ARG	N-CA-C	-14.21	95.86	111.07
6	1-G	665	CYS	N-CA-C	14.16	127.84	107.88
6	2-G	665	CYS	N-CA-C	14.16	127.84	107.88
5	1-F	121	TRP	N-CA-C	14.15	130.07	109.69
5	2-F	121	TRP	N-CA-C	14.15	130.07	109.69
6	1-G	609	ARG	CA-C-N	14.12	139.21	120.28
6	1-G	609	ARG	C-N-CA	14.12	139.21	120.28
6	2-G	609	ARG	CA-C-N	14.12	139.21	120.28
6	2-G	609	ARG	C-N-CA	14.12	139.21	120.28
6	1-K	609	ARG	CA-C-N	14.10	139.18	120.28
6	1-K	609	ARG	C-N-CA	14.10	139.18	120.28
6	2-K	609	ARG	CA-C-N	14.10	139.18	120.28
6	2-K	609	ARG	C-N-CA	14.10	139.18	120.28
5	1-R	88	VAL	N-CA-C	14.08	126.08	108.06
5	2-R	88	VAL	N-CA-C	14.08	126.08	108.06
1	2-A	630	GLN	N-CA-C	-13.98	96.70	114.04
1	3-A	630	GLN	N-CA-C	-13.98	96.70	114.04
1	3-A	797	PRO	CA-C-N	-13.90	102.46	119.84
1	3-A	797	PRO	C-N-CA	-13.90	102.46	119.84
6	1-G	178	VAL	N-CA-C	13.83	126.38	110.62
6	2-G	178	VAL	N-CA-C	13.83	126.38	110.62
7	2-Z	58	GLU	N-CA-C	-13.64	95.89	111.03
7	3-Z	58	GLU	N-CA-C	-13.64	95.89	111.03
3	1-C	416	LYS	N-CA-C	-13.41	87.04	108.90
3	2-C	416	LYS	N-CA-C	-13.41	87.04	108.90
3	3-C	416	LYS	N-CA-C	-13.41	87.04	108.90
1	1-A	736	ALA	N-CA-C	13.23	125.78	111.36
1	3-A	736	ALA	N-CA-C	13.23	125.78	111.36
6	1-K	629	LEU	CA-C-N	13.15	138.32	120.44
6	1-K	629	LEU	C-N-CA	13.15	138.32	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	629	LEU	CA-C-N	13.15	138.32	120.44
6	2-K	629	LEU	C-N-CA	13.15	138.32	120.44
6	1-G	629	LEU	CA-C-N	13.13	138.30	120.44
6	1-G	629	LEU	C-N-CA	13.13	138.30	120.44
6	2-G	629	LEU	CA-C-N	13.13	138.30	120.44
6	2-G	629	LEU	C-N-CA	13.13	138.30	120.44
1	3-A	768	ASP	CA-C-N	13.08	137.44	120.44
1	3-A	768	ASP	C-N-CA	13.08	137.44	120.44
2	1-B	414	ALA	CA-C-N	12.86	137.52	120.28
2	1-B	414	ALA	C-N-CA	12.86	137.52	120.28
2	3-B	414	ALA	CA-C-N	12.86	137.52	120.28
2	3-B	414	ALA	C-N-CA	12.86	137.52	120.28
2	2-B	940	GLY	N-CA-C	-12.78	90.55	111.38
2	3-B	940	GLY	N-CA-C	-12.78	90.55	111.38
5	1-R	159	CYS	N-CA-C	-12.66	90.69	108.54
5	2-R	159	CYS	N-CA-C	-12.66	90.69	108.54
5	3-R	159	CYS	N-CA-C	-12.66	90.69	108.54
2	2-B	926	ILE	N-CA-C	12.56	126.21	108.12
2	3-B	926	ILE	N-CA-C	12.56	126.21	108.12
6	1-K	665	CYS	N-CA-C	12.46	127.61	108.42
6	2-K	665	CYS	N-CA-C	12.46	127.61	108.42
1	2-A	343	GLN	N-CA-C	-12.40	84.38	110.80
1	3-A	343	GLN	N-CA-C	-12.40	84.38	110.80
5	1-F	61	ILE	N-CA-C	-12.25	90.84	108.36
5	2-F	61	ILE	N-CA-C	-12.25	90.84	108.36
1	1-A	504	ALA	N-CA-C	-12.25	89.44	109.40
1	2-A	504	ALA	N-CA-C	-12.25	89.44	109.40
1	3-A	504	ALA	N-CA-C	-12.25	89.44	109.40
3	1-C	441	VAL	N-CA-C	-12.19	90.31	108.46
3	2-C	441	VAL	N-CA-C	-12.19	90.31	108.46
7	1-L	58	GLU	N-CA-C	-12.15	97.54	111.03
7	2-L	58	GLU	N-CA-C	-12.15	97.54	111.03
7	3-L	58	GLU	N-CA-C	-12.15	97.54	111.03
3	1-C	246	THR	CA-C-N	12.15	133.86	121.35
3	1-C	246	THR	C-N-CA	12.15	133.86	121.35
3	2-C	246	THR	CA-C-N	12.15	133.86	121.35
3	2-C	246	THR	C-N-CA	12.15	133.86	121.35
2	1-B	257	ARG	N-CA-C	12.12	125.65	111.11
2	2-B	257	ARG	N-CA-C	12.12	125.65	111.11
2	3-B	257	ARG	N-CA-C	12.12	125.65	111.11
6	1-G	225	SER	CA-C-O	-12.11	111.42	119.29
6	2-G	225	SER	CA-C-O	-12.11	111.42	119.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-G	225	SER	CA-C-O	-12.11	111.42	119.29
6	1-G	459	LEU	CA-C-N	12.07	133.63	119.99
6	1-G	459	LEU	C-N-CA	12.07	133.63	119.99
6	2-G	459	LEU	CA-C-N	12.07	133.63	119.99
6	2-G	459	LEU	C-N-CA	12.07	133.63	119.99
2	2-B	759	LEU	N-CA-C	-12.07	89.23	108.90
2	3-B	759	LEU	N-CA-C	-12.07	89.23	108.90
1	1-A	242	VAL	N-CA-C	-12.01	93.36	106.21
1	3-A	242	VAL	N-CA-C	-12.01	93.36	106.21
3	1-C	559	ARG	N-CA-C	-12.00	91.26	109.14
3	2-C	559	ARG	N-CA-C	-12.00	91.26	109.14
3	3-C	559	ARG	N-CA-C	-12.00	91.26	109.14
2	2-B	145	ALA	N-CA-C	11.92	124.27	111.28
2	3-B	145	ALA	N-CA-C	11.92	124.27	111.28
6	1-K	247	ARG	N-CA-C	-11.84	96.96	111.40
6	2-K	247	ARG	N-CA-C	-11.84	96.96	111.40
2	2-B	761	VAL	N-CA-C	-11.71	91.62	108.48
2	3-B	761	VAL	N-CA-C	-11.71	91.62	108.48
6	1-K	240	LEU	CA-C-N	11.70	136.41	120.38
6	1-K	240	LEU	C-N-CA	11.70	136.41	120.38
6	2-K	240	LEU	CA-C-N	11.70	136.41	120.38
6	2-K	240	LEU	C-N-CA	11.70	136.41	120.38
6	1-G	96	SER	N-CA-C	11.62	135.55	110.80
6	2-G	96	SER	N-CA-C	11.62	135.55	110.80
6	2-K	24	LYS	N-CA-C	11.62	124.02	111.36
6	1-G	205	LYS	N-CA-C	-11.55	98.66	111.14
6	2-G	205	LYS	N-CA-C	-11.55	98.66	111.14
6	3-G	205	LYS	N-CA-C	-11.55	98.66	111.14
4	1-D	19	ARG	CA-C-N	11.50	137.78	122.84
4	1-D	19	ARG	C-N-CA	11.50	137.78	122.84
4	2-D	19	ARG	CA-C-N	11.50	137.78	122.84
4	2-D	19	ARG	C-N-CA	11.50	137.78	122.84
4	3-D	19	ARG	CA-C-N	11.50	137.78	122.84
4	3-D	19	ARG	C-N-CA	11.50	137.78	122.84
4	1-D	61	MET	N-CA-C	-11.45	88.00	107.80
4	2-D	61	MET	N-CA-C	-11.45	88.00	107.80
4	3-D	61	MET	N-CA-C	-11.45	88.00	107.80
3	1-C	653	GLU	N-CA-C	-11.43	92.69	109.15
3	2-C	653	GLU	N-CA-C	-11.43	92.69	109.15
3	3-C	653	GLU	N-CA-C	-11.43	92.69	109.15
1	1-A	547	ASN	N-CA-C	-11.38	99.75	112.72
1	2-A	547	ASN	N-CA-C	-11.38	99.75	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	547	ASN	N-CA-C	-11.38	99.75	112.72
1	2-A	339	ARG	N-CA-C	-11.37	92.13	109.41
1	3-A	339	ARG	N-CA-C	-11.37	92.13	109.41
6	1-G	95	MET	N-CA-C	11.36	126.40	112.54
6	2-G	95	MET	N-CA-C	11.36	126.40	112.54
1	1-A	554	THR	N-CA-C	11.35	127.09	108.26
1	2-A	554	THR	N-CA-C	11.35	127.09	108.26
1	3-A	554	THR	N-CA-C	11.35	127.09	108.26
6	1-K	829	LEU	N-CA-C	-11.34	89.92	108.41
6	2-K	829	LEU	N-CA-C	-11.34	89.92	108.41
6	1-G	829	LEU	N-CA-C	-11.34	89.93	108.41
6	2-G	829	LEU	N-CA-C	-11.34	89.93	108.41
6	3-G	829	LEU	N-CA-C	-11.34	89.93	108.41
1	2-A	528	ILE	N-CA-C	-11.32	92.77	108.27
1	3-A	528	ILE	N-CA-C	-11.32	92.77	108.27
4	1-D	56	TYR	N-CA-C	-11.30	89.66	108.76
4	2-D	56	TYR	N-CA-C	-11.30	89.66	108.76
4	3-D	56	TYR	N-CA-C	-11.30	89.66	108.76
6	2-K	131	ILE	N-CA-C	11.27	125.18	111.09
4	1-D	14	LYS	CA-C-N	11.26	138.04	121.72
4	1-D	14	LYS	C-N-CA	11.26	138.04	121.72
4	2-D	14	LYS	CA-C-N	11.26	138.04	121.72
4	2-D	14	LYS	C-N-CA	11.26	138.04	121.72
3	1-C	113	PHE	N-CA-C	11.19	127.75	109.95
3	2-C	113	PHE	N-CA-C	11.19	127.75	109.95
3	3-C	113	PHE	N-CA-C	11.19	127.75	109.95
4	1-D	36	PHE	CA-C-N	11.18	130.60	118.97
4	1-D	36	PHE	C-N-CA	11.18	130.60	118.97
4	2-D	36	PHE	CA-C-N	11.18	130.60	118.97
4	2-D	36	PHE	C-N-CA	11.18	130.60	118.97
4	3-D	36	PHE	CA-C-N	11.18	130.60	118.97
4	3-D	36	PHE	C-N-CA	11.18	130.60	118.97
6	1-G	117	GLU	N-CA-C	-11.08	90.90	108.63
6	2-G	117	GLU	N-CA-C	-11.08	90.90	108.63
1	2-A	207	GLY	N-CA-C	-11.05	101.45	111.95
1	3-A	207	GLY	N-CA-C	-11.05	101.45	111.95
7	1-L	14	LYS	N-CA-C	-11.05	97.92	111.40
7	2-L	14	LYS	N-CA-C	-11.05	97.92	111.40
7	3-L	14	LYS	N-CA-C	-11.05	97.92	111.40
6	1-G	141	GLU	N-CA-C	11.03	124.68	111.33
2	2-B	749	VAL	N-CA-C	-11.03	91.45	107.77
6	2-G	141	GLU	N-CA-C	11.03	124.68	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-B	749	VAL	N-CA-C	-11.03	91.45	107.77
1	3-A	302	ASN	N-CA-C	-10.97	100.38	113.88
5	1-F	59	LYS	CA-C-N	10.95	142.45	121.54
5	1-F	59	LYS	C-N-CA	10.95	142.45	121.54
5	2-F	59	LYS	CA-C-N	10.95	142.45	121.54
5	2-F	59	LYS	C-N-CA	10.95	142.45	121.54
1	2-A	321	ARG	N-CA-C	-10.94	90.44	108.49
1	3-A	321	ARG	N-CA-C	-10.94	90.44	108.49
2	1-B	234	PHE	CA-C-N	10.93	130.41	119.92
2	1-B	234	PHE	C-N-CA	10.93	130.41	119.92
2	2-B	234	PHE	CA-C-N	10.93	130.41	119.92
2	2-B	234	PHE	C-N-CA	10.93	130.41	119.92
2	3-B	234	PHE	CA-C-N	10.93	130.41	119.92
2	3-B	234	PHE	C-N-CA	10.93	130.41	119.92
2	2-B	750	ASN	N-CA-C	-10.91	90.45	108.34
2	3-B	750	ASN	N-CA-C	-10.91	90.45	108.34
4	1-D	118	ALA	N-CA-C	-10.81	90.90	108.52
4	2-D	118	ALA	N-CA-C	-10.81	90.90	108.52
4	3-D	118	ALA	N-CA-C	-10.81	90.90	108.52
2	2-B	905	PHE	CA-C-N	10.77	136.90	121.50
2	2-B	905	PHE	C-N-CA	10.77	136.90	121.50
2	3-B	905	PHE	CA-C-N	10.77	136.90	121.50
2	3-B	905	PHE	C-N-CA	10.77	136.90	121.50
5	1-R	122	LEU	N-CA-C	-10.77	88.94	107.99
5	2-R	122	LEU	N-CA-C	-10.77	88.94	107.99
5	3-R	122	LEU	N-CA-C	-10.77	88.94	107.99
1	1-A	491	VAL	CA-C-N	10.76	142.09	121.54
1	1-A	491	VAL	C-N-CA	10.76	142.09	121.54
1	2-A	491	VAL	CA-C-N	10.76	142.09	121.54
1	2-A	491	VAL	C-N-CA	10.76	142.09	121.54
1	3-A	491	VAL	CA-C-N	10.76	142.09	121.54
1	3-A	491	VAL	C-N-CA	10.76	142.09	121.54
1	3-A	802	MET	CA-C-N	10.73	133.25	119.84
1	3-A	802	MET	C-N-CA	10.73	133.25	119.84
6	1-G	693	VAL	N-CA-C	10.72	118.77	108.15
6	2-G	693	VAL	N-CA-C	10.72	118.77	108.15
1	2-A	86	LEU	N-CA-C	10.72	122.71	111.14
1	3-A	86	LEU	N-CA-C	10.72	122.71	111.14
5	1-M	62	SER	CA-C-N	10.71	137.29	122.19
5	1-M	62	SER	C-N-CA	10.71	137.29	122.19
5	2-M	62	SER	CA-C-N	10.71	137.29	122.19
5	2-M	62	SER	C-N-CA	10.71	137.29	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-M	62	SER	CA-C-N	10.71	137.29	122.19
5	3-M	62	SER	C-N-CA	10.71	137.29	122.19
2	2-B	894	THR	O-C-N	10.70	129.34	121.85
2	3-B	894	THR	O-C-N	10.70	129.34	121.85
3	1-C	176	SER	N-CA-C	-10.68	98.56	108.07
3	2-C	176	SER	N-CA-C	-10.68	98.56	108.07
3	3-C	176	SER	N-CA-C	-10.68	98.56	108.07
5	1-R	78	TRP	N-CA-C	-10.66	99.19	111.03
5	2-R	78	TRP	N-CA-C	-10.66	99.19	111.03
6	2-K	120	TYR	CA-C-N	10.64	134.27	120.44
6	2-K	120	TYR	C-N-CA	10.64	134.27	120.44
6	1-G	815	ARG	N-CA-C	-10.62	97.40	111.74
6	2-G	815	ARG	N-CA-C	-10.62	97.40	111.74
6	3-G	815	ARG	N-CA-C	-10.62	97.40	111.74
2	1-B	256	GLU	N-CA-C	10.59	125.72	113.01
2	2-B	256	GLU	N-CA-C	10.59	125.72	113.01
2	3-B	256	GLU	N-CA-C	10.59	125.72	113.01
1	1-A	656	GLY	N-CA-C	-10.58	99.66	115.32
1	2-A	656	GLY	N-CA-C	-10.58	99.66	115.32
1	3-A	656	GLY	N-CA-C	-10.58	99.66	115.32
6	1-K	814	GLU	N-CA-C	-10.55	96.48	111.56
6	2-K	814	GLU	N-CA-C	-10.55	96.48	111.56
6	3-K	814	GLU	N-CA-C	-10.55	96.48	111.56
6	1-G	838	HIS	CA-C-N	10.54	137.49	120.94
6	1-G	838	HIS	C-N-CA	10.54	137.49	120.94
6	2-G	838	HIS	CA-C-N	10.54	137.49	120.94
6	2-G	838	HIS	C-N-CA	10.54	137.49	120.94
6	3-G	838	HIS	CA-C-N	10.54	137.49	120.94
6	3-G	838	HIS	C-N-CA	10.54	137.49	120.94
6	1-K	838	HIS	CA-C-N	10.53	137.48	120.94
6	1-K	838	HIS	C-N-CA	10.53	137.48	120.94
6	2-K	838	HIS	CA-C-N	10.53	137.48	120.94
6	2-K	838	HIS	C-N-CA	10.53	137.48	120.94
6	3-K	838	HIS	CA-C-N	10.53	137.48	120.94
6	3-K	838	HIS	C-N-CA	10.53	137.48	120.94
6	1-G	813	CYS	N-CA-C	10.53	122.13	108.24
6	2-G	813	CYS	N-CA-C	10.53	122.13	108.24
6	3-G	813	CYS	N-CA-C	10.53	122.13	108.24
6	1-G	435	GLY	CA-C-N	10.50	134.35	120.28
6	1-G	435	GLY	C-N-CA	10.50	134.35	120.28
6	2-G	435	GLY	CA-C-N	10.50	134.35	120.28
6	2-G	435	GLY	C-N-CA	10.50	134.35	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	444	GLN	N-CA-C	10.49	122.72	111.28
2	3-B	444	GLN	N-CA-C	10.49	122.72	111.28
6	1-G	535	LEU	CA-C-N	10.49	134.08	120.44
6	1-G	535	LEU	C-N-CA	10.49	134.08	120.44
6	2-G	535	LEU	CA-C-N	10.49	134.08	120.44
6	2-G	535	LEU	C-N-CA	10.49	134.08	120.44
5	1-M	155	ILE	N-CA-C	-10.49	93.49	108.17
5	2-M	155	ILE	N-CA-C	-10.49	93.49	108.17
5	3-M	155	ILE	N-CA-C	-10.49	93.49	108.17
6	1-G	207	ASP	N-CA-C	10.47	127.33	108.48
6	2-G	207	ASP	N-CA-C	10.47	127.33	108.48
6	3-G	207	ASP	N-CA-C	10.47	127.33	108.48
6	2-K	152	VAL	N-CA-C	-10.47	98.03	107.56
5	1-M	41	GLU	CA-C-N	10.36	140.62	121.97
5	1-M	41	GLU	C-N-CA	10.36	140.62	121.97
5	2-M	41	GLU	CA-C-N	10.36	140.62	121.97
5	2-M	41	GLU	C-N-CA	10.36	140.62	121.97
5	3-M	41	GLU	CA-C-N	10.36	140.62	121.97
5	3-M	41	GLU	C-N-CA	10.36	140.62	121.97
1	2-A	216	THR	N-CA-C	-10.36	100.64	113.38
1	3-A	216	THR	N-CA-C	-10.36	100.64	113.38
3	1-C	567	ILE	N-CA-C	-10.30	97.35	107.55
1	2-A	631	LYS	N-CA-C	-10.30	88.86	110.80
3	2-C	567	ILE	N-CA-C	-10.30	97.35	107.55
1	3-A	631	LYS	N-CA-C	-10.30	88.86	110.80
3	3-C	567	ILE	N-CA-C	-10.30	97.35	107.55
2	2-B	928	LYS	CA-C-N	10.27	132.67	119.84
2	2-B	928	LYS	C-N-CA	10.27	132.67	119.84
2	3-B	928	LYS	CA-C-N	10.27	132.67	119.84
2	3-B	928	LYS	C-N-CA	10.27	132.67	119.84
7	1-L	61	LEU	CA-C-N	-10.26	106.94	122.74
7	1-L	61	LEU	C-N-CA	-10.26	106.94	122.74
7	2-L	61	LEU	CA-C-N	-10.26	106.94	122.74
7	2-L	61	LEU	C-N-CA	-10.26	106.94	122.74
7	3-L	61	LEU	CA-C-N	-10.26	106.94	122.74
7	3-L	61	LEU	C-N-CA	-10.26	106.94	122.74
5	1-F	24	GLY	N-CA-C	-10.24	101.60	112.04
5	2-F	24	GLY	N-CA-C	-10.24	101.60	112.04
1	1-A	589	VAL	N-CA-C	-10.23	93.69	108.53
1	2-A	589	VAL	N-CA-C	-10.23	93.69	108.53
1	3-A	589	VAL	N-CA-C	-10.23	93.69	108.53
2	2-B	754	ILE	N-CA-C	-10.21	93.76	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-B	754	ILE	N-CA-C	-10.21	93.76	108.36
1	2-A	317	PHE	CA-C-N	10.21	137.73	122.93
1	2-A	317	PHE	C-N-CA	10.21	137.73	122.93
1	3-A	317	PHE	CA-C-N	10.21	137.73	122.93
1	3-A	317	PHE	C-N-CA	10.21	137.73	122.93
3	1-C	4	ARG	N-CA-C	-10.15	98.86	112.26
3	2-C	4	ARG	N-CA-C	-10.15	98.86	112.26
3	3-C	4	ARG	N-CA-C	-10.15	98.86	112.26
6	1-K	283	LYS	CA-C-N	10.14	133.87	120.28
6	1-K	283	LYS	C-N-CA	10.14	133.87	120.28
6	2-K	283	LYS	CA-C-N	10.14	133.87	120.28
6	2-K	283	LYS	C-N-CA	10.14	133.87	120.28
1	2-A	104	GLU	N-CA-C	-10.13	99.79	111.03
1	3-A	104	GLU	N-CA-C	-10.13	99.79	111.03
1	1-A	243	ASP	N-CA-C	-10.10	92.38	109.24
1	3-A	243	ASP	N-CA-C	-10.10	92.38	109.24
5	1-M	72	ASP	N-CA-C	10.06	123.18	111.11
1	2-A	36	TRP	N-CA-C	-10.06	92.44	109.24
5	2-M	72	ASP	N-CA-C	10.06	123.18	111.11
1	3-A	36	TRP	N-CA-C	-10.06	92.44	109.24
5	3-M	72	ASP	N-CA-C	10.06	123.18	111.11
2	2-B	811	ASN	N-CA-C	-10.00	92.06	109.06
2	3-B	811	ASN	N-CA-C	-10.00	92.06	109.06
6	1-G	828	LEU	N-CA-C	-9.98	93.00	109.07
6	2-G	828	LEU	N-CA-C	-9.98	93.00	109.07
6	3-G	828	LEU	N-CA-C	-9.98	93.00	109.07
6	1-K	828	LEU	N-CA-C	-9.95	93.05	109.07
6	2-K	828	LEU	N-CA-C	-9.95	93.05	109.07
5	1-M	63	PHE	N-CA-C	9.93	125.95	109.46
5	2-R	30	LYS	CA-C-N	9.93	133.59	120.28
5	2-R	30	LYS	C-N-CA	9.93	133.59	120.28
5	2-M	63	PHE	N-CA-C	9.93	125.95	109.46
5	3-M	63	PHE	N-CA-C	9.93	125.95	109.46
3	1-C	379	THR	N-CA-C	-9.90	93.22	108.96
3	3-C	379	THR	N-CA-C	-9.90	93.22	108.96
2	1-B	483	THR	N-CA-C	-9.89	99.58	112.24
3	1-C	396	TRP	N-CA-C	-9.89	94.59	110.32
3	2-C	396	TRP	N-CA-C	-9.89	94.59	110.32
2	3-B	483	THR	N-CA-C	-9.89	99.58	112.24
3	3-C	396	TRP	N-CA-C	-9.89	94.59	110.32
1	2-A	430	ASP	N-CA-C	-9.89	92.79	108.90
1	3-A	430	ASP	N-CA-C	-9.89	92.79	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	255	SER	CA-C-N	9.88	140.74	121.18
2	1-B	255	SER	C-N-CA	9.88	140.74	121.18
2	2-B	255	SER	CA-C-N	9.88	140.74	121.18
2	2-B	255	SER	C-N-CA	9.88	140.74	121.18
2	3-B	255	SER	CA-C-N	9.88	140.74	121.18
2	3-B	255	SER	C-N-CA	9.88	140.74	121.18
1	2-A	59	PHE	CA-C-N	9.87	133.27	120.44
1	2-A	59	PHE	C-N-CA	9.87	133.27	120.44
3	1-C	221	CYS	N-CA-C	-9.86	91.35	108.20
3	2-C	221	CYS	N-CA-C	-9.86	91.35	108.20
3	1-C	204	SER	CA-C-N	-9.85	115.38	122.18
3	1-C	204	SER	C-N-CA	-9.85	115.38	122.18
3	2-C	204	SER	CA-C-N	-9.85	115.38	122.18
3	2-C	204	SER	C-N-CA	-9.85	115.38	122.18
6	2-K	129	CYS	N-CA-C	9.84	123.23	111.82
6	1-G	536	GLU	N-CA-C	-9.83	100.55	111.07
6	2-G	536	GLU	N-CA-C	-9.83	100.55	111.07
1	1-A	272	SER	N-CA-C	9.83	125.39	109.85
1	2-A	272	SER	N-CA-C	9.83	125.39	109.85
1	3-A	272	SER	N-CA-C	9.83	125.39	109.85
1	3-A	301	PRO	N-CA-C	-9.80	102.14	114.68
6	1-G	693	VAL	CA-C-O	-9.79	114.22	120.88
6	2-G	693	VAL	CA-C-O	-9.79	114.22	120.88
2	1-B	369	GLU	CA-C-N	9.77	133.37	120.28
2	1-B	369	GLU	C-N-CA	9.77	133.37	120.28
2	2-B	369	GLU	CA-C-N	9.77	133.37	120.28
2	2-B	369	GLU	C-N-CA	9.77	133.37	120.28
2	3-B	369	GLU	CA-C-N	9.77	133.37	120.28
2	3-B	369	GLU	C-N-CA	9.77	133.37	120.28
3	1-C	151	ASN	N-CA-C	-9.74	95.00	109.42
3	2-C	151	ASN	N-CA-C	-9.74	95.00	109.42
3	3-C	151	ASN	N-CA-C	-9.74	95.00	109.42
3	1-C	92	VAL	N-CA-C	9.73	119.68	110.53
3	2-C	92	VAL	N-CA-C	9.73	119.68	110.53
3	3-C	92	VAL	N-CA-C	9.73	119.68	110.53
2	1-B	120	TYR	CA-C-N	9.71	133.29	120.28
2	1-B	120	TYR	C-N-CA	9.71	133.29	120.28
2	2-B	120	TYR	CA-C-N	9.71	133.29	120.28
2	2-B	120	TYR	C-N-CA	9.71	133.29	120.28
2	3-B	120	TYR	CA-C-N	9.71	133.29	120.28
2	3-B	120	TYR	C-N-CA	9.71	133.29	120.28
3	1-C	315	ILE	N-CA-C	-9.71	94.58	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	315	ILE	N-CA-C	-9.71	94.58	108.17
3	3-C	315	ILE	N-CA-C	-9.71	94.58	108.17
3	1-C	269	TYR	N-CA-C	-9.70	98.19	111.87
3	2-C	269	TYR	N-CA-C	-9.70	98.19	111.87
6	1-G	498	PHE	N-CA-C	9.63	121.78	111.28
6	2-G	498	PHE	N-CA-C	9.63	121.78	111.28
1	1-A	519	ASP	N-CA-C	-9.59	91.63	108.13
1	2-A	519	ASP	N-CA-C	-9.59	91.63	108.13
1	3-A	519	ASP	N-CA-C	-9.59	91.63	108.13
3	1-C	311	ASN	N-CA-C	-9.58	100.80	111.14
3	2-C	311	ASN	N-CA-C	-9.58	100.80	111.14
3	3-C	311	ASN	N-CA-C	-9.58	100.80	111.14
3	1-C	551	ILE	N-CA-C	-9.57	94.70	108.11
3	2-C	551	ILE	N-CA-C	-9.57	94.70	108.11
3	3-C	551	ILE	N-CA-C	-9.57	94.70	108.11
5	1-F	166	LEU	CA-C-N	9.57	134.85	120.31
5	1-F	166	LEU	C-N-CA	9.57	134.85	120.31
5	2-F	166	LEU	CA-C-N	9.57	134.85	120.31
5	2-F	166	LEU	C-N-CA	9.57	134.85	120.31
5	1-F	95	ASN	N-CA-C	-9.53	101.77	113.97
5	2-F	95	ASN	N-CA-C	-9.53	101.77	113.97
1	1-A	241	GLU	CA-C-N	9.51	130.59	121.65
1	1-A	241	GLU	C-N-CA	9.51	130.59	121.65
1	3-A	241	GLU	CA-C-N	9.51	130.59	121.65
1	3-A	241	GLU	C-N-CA	9.51	130.59	121.65
4	1-D	235	VAL	CA-C-N	9.49	132.78	120.44
4	1-D	235	VAL	C-N-CA	9.49	132.78	120.44
4	2-D	235	VAL	CA-C-N	9.49	132.78	120.44
4	2-D	235	VAL	C-N-CA	9.49	132.78	120.44
4	3-D	235	VAL	CA-C-N	9.49	132.78	120.44
4	3-D	235	VAL	C-N-CA	9.49	132.78	120.44
1	2-A	337	LYS	N-CA-C	9.48	123.98	110.23
1	3-A	337	LYS	N-CA-C	9.48	123.98	110.23
1	3-A	803	PRO	N-CA-C	9.48	132.00	112.47
6	1-G	274	ILE	N-CA-C	9.46	125.52	111.89
6	2-G	274	ILE	N-CA-C	9.46	125.52	111.89
5	1-F	97	ARG	N-CA-C	-9.45	90.67	110.80
5	2-F	97	ARG	N-CA-C	-9.45	90.67	110.80
3	1-C	245	ILE	N-CA-C	-9.45	94.88	108.11
3	2-C	245	ILE	N-CA-C	-9.45	94.88	108.11
4	1-D	89	VAL	N-CA-C	9.44	119.40	110.53
4	2-D	89	VAL	N-CA-C	9.44	119.40	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-D	89	VAL	N-CA-C	9.44	119.40	110.53
5	1-M	130	LEU	N-CA-C	-9.36	97.86	109.65
5	2-M	130	LEU	N-CA-C	-9.36	97.86	109.65
5	3-M	130	LEU	N-CA-C	-9.36	97.86	109.65
3	1-C	554	ILE	N-CA-C	-9.34	101.75	110.53
3	2-C	554	ILE	N-CA-C	-9.34	101.75	110.53
3	3-C	554	ILE	N-CA-C	-9.34	101.75	110.53
1	2-A	198	LYS	N-CA-C	-9.32	90.95	110.80
1	3-A	198	LYS	N-CA-C	-9.32	90.95	110.80
3	1-C	412	VAL	N-CA-C	9.31	121.18	108.89
3	2-C	412	VAL	N-CA-C	9.31	121.18	108.89
3	2-C	808	GLU	N-CA-C	9.31	121.03	111.07
3	3-C	412	VAL	N-CA-C	9.31	121.18	108.89
6	1-G	201	TYR	N-CA-C	-9.29	100.84	110.97
6	2-G	201	TYR	N-CA-C	-9.29	100.84	110.97
6	3-G	201	TYR	N-CA-C	-9.29	100.84	110.97
7	2-Z	62	LEU	N-CA-C	-9.27	93.31	109.06
7	3-Z	62	LEU	N-CA-C	-9.27	93.31	109.06
1	2-A	625	ILE	N-CA-C	-9.26	103.66	112.83
1	3-A	625	ILE	N-CA-C	-9.26	103.66	112.83
2	2-B	821	ASP	N-CA-C	9.24	124.38	108.76
2	3-B	821	ASP	N-CA-C	9.24	124.38	108.76
1	1-A	496	TRP	N-CA-C	-9.23	95.26	109.85
1	2-A	429	LEU	N-CA-C	-9.23	95.30	109.24
1	2-A	496	TRP	N-CA-C	-9.23	95.26	109.85
1	3-A	429	LEU	N-CA-C	-9.23	95.30	109.24
1	3-A	496	TRP	N-CA-C	-9.23	95.26	109.85
1	2-A	599	PHE	CA-C-O	-9.21	111.15	120.82
1	3-A	599	PHE	CA-C-O	-9.21	111.15	120.82
1	2-A	108	ILE	N-CA-C	9.21	122.18	108.46
1	3-A	108	ILE	N-CA-C	9.21	122.18	108.46
5	1-M	53	VAL	N-CA-C	-9.20	94.88	108.12
1	2-A	600	LYS	N-CA-C	-9.20	101.82	113.23
5	2-M	53	VAL	N-CA-C	-9.20	94.88	108.12
1	3-A	600	LYS	N-CA-C	-9.20	101.82	113.23
5	3-M	53	VAL	N-CA-C	-9.20	94.88	108.12
1	1-A	588	ARG	N-CA-C	9.16	123.43	109.23
1	2-A	588	ARG	N-CA-C	9.16	123.43	109.23
1	3-A	588	ARG	N-CA-C	9.16	123.43	109.23
4	1-D	136	MET	N-CA-C	-9.15	91.30	110.80
4	2-D	136	MET	N-CA-C	-9.15	91.30	110.80
4	3-D	136	MET	N-CA-C	-9.15	91.30	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	453	CYS	N-CA-C	-9.14	101.03	112.72
1	3-A	453	CYS	N-CA-C	-9.14	101.03	112.72
2	1-B	216	ASP	CA-C-N	9.11	132.49	120.28
2	1-B	216	ASP	C-N-CA	9.11	132.49	120.28
2	2-B	216	ASP	CA-C-N	9.11	132.49	120.28
2	2-B	216	ASP	C-N-CA	9.11	132.49	120.28
2	3-B	216	ASP	CA-C-N	9.11	132.49	120.28
2	3-B	216	ASP	C-N-CA	9.11	132.49	120.28
6	1-G	523	GLU	N-CA-C	-9.09	100.99	112.90
6	2-G	523	GLU	N-CA-C	-9.09	100.99	112.90
1	1-A	467	ARG	N-CA-C	-9.08	98.06	110.68
1	2-A	467	ARG	N-CA-C	-9.08	98.06	110.68
1	3-A	467	ARG	N-CA-C	-9.08	98.06	110.68
1	1-A	240	TRP	CA-C-N	9.06	138.85	121.54
1	1-A	240	TRP	C-N-CA	9.06	138.85	121.54
1	3-A	240	TRP	CA-C-N	9.06	138.85	121.54
1	3-A	240	TRP	C-N-CA	9.06	138.85	121.54
2	1-B	414	ALA	O-C-N	9.05	131.71	122.12
2	3-B	414	ALA	O-C-N	9.05	131.71	122.12
3	1-C	85	ASN	N-CA-C	-9.05	94.44	109.46
6	1-G	831	ALA	N-CA-C	9.05	123.25	109.23
3	2-C	85	ASN	N-CA-C	-9.05	94.44	109.46
6	2-G	831	ALA	N-CA-C	9.05	123.25	109.23
3	3-C	85	ASN	N-CA-C	-9.05	94.44	109.46
6	3-G	831	ALA	N-CA-C	9.05	123.25	109.23
3	1-C	546	TYR	N-CA-C	-9.03	93.81	108.52
6	1-G	736	ASP	N-CA-C	-9.03	94.96	109.40
3	2-C	546	TYR	N-CA-C	-9.03	93.81	108.52
6	2-G	736	ASP	N-CA-C	-9.03	94.96	109.40
3	3-C	546	TYR	N-CA-C	-9.03	93.81	108.52
6	1-K	736	ASP	N-CA-C	-9.02	94.96	109.40
6	2-K	736	ASP	N-CA-C	-9.02	94.96	109.40
6	3-K	736	ASP	N-CA-C	-9.02	94.96	109.40
6	1-K	831	ALA	N-CA-C	9.02	123.21	109.23
1	2-A	598	LYS	N-CA-C	-9.02	101.45	111.28
6	2-K	831	ALA	N-CA-C	9.02	123.21	109.23
1	3-A	598	LYS	N-CA-C	-9.02	101.45	111.28
5	1-F	106	VAL	CA-C-N	9.02	134.02	120.31
5	1-F	106	VAL	C-N-CA	9.02	134.02	120.31
5	2-F	106	VAL	CA-C-N	9.02	134.02	120.31
5	2-F	106	VAL	C-N-CA	9.02	134.02	120.31
2	3-B	67	GLY	N-CA-C	-9.01	91.82	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	120	TYR	CA-C-O	8.99	129.95	120.42
1	2-A	714	GLU	N-CA-C	8.99	120.69	111.07
1	3-A	714	GLU	N-CA-C	8.99	120.69	111.07
7	1-L	88	LEU	N-CA-C	8.99	121.07	111.28
5	2-R	61	ILE	N-CA-C	-8.99	95.51	108.36
7	2-L	88	LEU	N-CA-C	8.99	121.07	111.28
7	3-L	88	LEU	N-CA-C	8.99	121.07	111.28
6	1-K	749	ASP	N-CA-C	-8.98	95.42	109.07
6	2-K	749	ASP	N-CA-C	-8.98	95.42	109.07
6	1-G	749	ASP	N-CA-C	-8.96	95.44	109.07
6	2-G	749	ASP	N-CA-C	-8.96	95.44	109.07
1	1-A	511	ILE	N-CA-C	-8.94	94.58	108.44
1	2-A	511	ILE	N-CA-C	-8.94	94.58	108.44
1	3-A	511	ILE	N-CA-C	-8.94	94.58	108.44
1	3-A	779	ASP	N-CA-C	-8.94	90.05	109.81
2	1-B	331	ARG	CA-C-N	8.94	133.13	120.53
2	1-B	331	ARG	C-N-CA	8.94	133.13	120.53
2	2-B	331	ARG	CA-C-N	8.94	133.13	120.53
2	2-B	331	ARG	C-N-CA	8.94	133.13	120.53
3	1-C	170	TRP	CA-C-N	8.94	136.84	122.81
3	1-C	170	TRP	C-N-CA	8.94	136.84	122.81
3	2-C	170	TRP	CA-C-N	8.94	136.84	122.81
3	2-C	170	TRP	C-N-CA	8.94	136.84	122.81
3	3-C	170	TRP	CA-C-N	8.94	136.84	122.81
3	3-C	170	TRP	C-N-CA	8.94	136.84	122.81
6	1-G	462	GLU	N-CA-C	8.93	120.78	111.14
6	2-G	462	GLU	N-CA-C	8.93	120.78	111.14
5	1-F	161	THR	N-CA-C	-8.92	100.72	113.21
5	2-F	161	THR	N-CA-C	-8.92	100.72	113.21
6	1-K	836	GLY	N-CA-C	-8.91	102.87	115.43
1	2-A	67	VAL	N-CA-C	-8.91	95.65	108.48
6	2-K	836	GLY	N-CA-C	-8.91	102.87	115.43
6	1-G	836	GLY	N-CA-C	-8.91	102.87	115.43
6	2-G	836	GLY	N-CA-C	-8.91	102.87	115.43
6	3-G	836	GLY	N-CA-C	-8.91	102.87	115.43
2	1-B	269	GLN	N-CA-C	-8.90	91.84	110.80
2	2-B	269	GLN	N-CA-C	-8.90	91.84	110.80
2	3-B	269	GLN	N-CA-C	-8.90	91.84	110.80
2	1-B	35	PRO	N-CA-C	8.90	121.56	110.70
2	3-B	35	PRO	N-CA-C	8.90	121.56	110.70
2	2-B	748	HIS	N-CA-C	-8.89	95.45	109.50
2	3-B	748	HIS	N-CA-C	-8.89	95.45	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	606	ARG	CA-C-N	8.88	133.35	120.82
1	2-A	606	ARG	C-N-CA	8.88	133.35	120.82
1	3-A	606	ARG	CA-C-N	8.88	133.35	120.82
1	3-A	606	ARG	C-N-CA	8.88	133.35	120.82
5	1-M	79	ARG	N-CA-C	-8.88	101.57	111.07
5	2-M	79	ARG	N-CA-C	-8.88	101.57	111.07
5	3-M	79	ARG	N-CA-C	-8.88	101.57	111.07
5	1-F	79	ARG	N-CA-C	8.88	121.92	111.71
5	2-F	79	ARG	N-CA-C	8.88	121.92	111.71
6	1-G	731	THR	N-CA-C	-8.87	94.78	109.07
6	2-G	731	THR	N-CA-C	-8.87	94.78	109.07
1	1-A	507	ALA	N-CA-C	-8.86	95.60	109.07
1	2-A	507	ALA	N-CA-C	-8.86	95.60	109.07
1	3-A	507	ALA	N-CA-C	-8.86	95.60	109.07
6	1-K	731	THR	N-CA-C	-8.85	94.82	109.07
6	2-K	731	THR	N-CA-C	-8.85	94.82	109.07
6	3-K	731	THR	N-CA-C	-8.85	94.82	109.07
5	1-F	165	GLY	CA-C-N	8.85	131.95	120.44
5	1-F	165	GLY	C-N-CA	8.85	131.95	120.44
5	2-F	165	GLY	CA-C-N	8.85	131.95	120.44
5	2-F	165	GLY	C-N-CA	8.85	131.95	120.44
1	1-A	740	GLY	N-CA-C	-8.85	92.21	113.18
1	3-A	740	GLY	N-CA-C	-8.85	92.21	113.18
3	1-C	722	ASP	N-CA-C	8.84	121.87	111.71
3	2-C	722	ASP	N-CA-C	8.84	121.87	111.71
3	3-C	722	ASP	N-CA-C	8.84	121.87	111.71
5	1-R	166	LEU	N-CA-C	8.84	120.60	110.97
5	2-R	166	LEU	N-CA-C	8.84	120.60	110.97
5	3-R	166	LEU	N-CA-C	8.84	120.60	110.97
6	1-K	244	ASP	N-CA-C	-8.83	91.99	110.80
6	2-K	244	ASP	N-CA-C	-8.83	91.99	110.80
1	1-A	522	CYS	N-CA-C	-8.82	95.72	108.60
1	2-A	522	CYS	N-CA-C	-8.82	95.72	108.60
1	3-A	522	CYS	N-CA-C	-8.82	95.72	108.60
2	3-B	49	ASP	N-CA-C	-8.81	92.03	110.80
6	1-G	134	SER	N-CA-C	8.78	120.85	111.28
6	2-G	134	SER	N-CA-C	8.78	120.85	111.28
2	2-B	843	ASP	N-CA-C	8.77	120.45	111.07
2	3-B	843	ASP	N-CA-C	8.77	120.45	111.07
1	1-A	249	TYR	N-CA-C	-8.77	97.48	110.46
1	3-A	249	TYR	N-CA-C	-8.77	97.48	110.46
5	1-M	91	VAL	CA-C-N	8.73	135.07	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-M	91	VAL	C-N-CA	8.73	135.07	122.94
5	2-M	91	VAL	CA-C-N	8.73	135.07	122.94
5	2-M	91	VAL	C-N-CA	8.73	135.07	122.94
5	3-M	91	VAL	CA-C-N	8.73	135.07	122.94
5	3-M	91	VAL	C-N-CA	8.73	135.07	122.94
6	1-K	853	THR	N-CA-C	-8.72	95.72	109.50
2	2-B	792	LEU	N-CA-C	-8.72	93.52	109.56
6	2-K	853	THR	N-CA-C	-8.72	95.72	109.50
2	3-B	792	LEU	N-CA-C	-8.72	93.52	109.56
6	3-K	853	THR	N-CA-C	-8.72	95.72	109.50
2	2-B	871	ASN	N-CA-C	-8.71	92.26	110.80
2	3-B	871	ASN	N-CA-C	-8.71	92.26	110.80
6	2-G	853	THR	N-CA-C	-8.70	95.75	109.50
6	3-G	853	THR	N-CA-C	-8.70	95.75	109.50
2	2-B	840	ASP	CA-C-N	8.69	132.76	120.42
2	2-B	840	ASP	C-N-CA	8.69	132.76	120.42
2	3-B	840	ASP	CA-C-N	8.69	132.76	120.42
2	3-B	840	ASP	C-N-CA	8.69	132.76	120.42
1	1-A	587	PRO	N-CA-C	8.69	126.28	111.77
1	2-A	587	PRO	N-CA-C	8.69	126.28	111.77
1	3-A	587	PRO	N-CA-C	8.69	126.28	111.77
5	1-R	161	THR	N-CA-C	-8.67	101.91	111.36
5	2-R	161	THR	N-CA-C	-8.67	101.91	111.36
5	3-R	161	THR	N-CA-C	-8.67	101.91	111.36
1	2-A	77	VAL	N-CA-C	-8.66	95.65	108.12
1	3-A	77	VAL	N-CA-C	-8.66	95.65	108.12
7	2-Z	129	VAL	N-CA-C	-8.66	94.67	108.95
5	1-R	99	ARG	N-CA-C	-8.65	102.44	113.16
5	2-R	99	ARG	N-CA-C	-8.65	102.44	113.16
5	3-R	99	ARG	N-CA-C	-8.65	102.44	113.16
3	1-C	202	LEU	N-CA-C	-8.64	96.13	109.52
3	2-C	202	LEU	N-CA-C	-8.64	96.13	109.52
1	2-A	406	ASP	N-CA-C	-8.63	99.62	112.04
1	3-A	406	ASP	N-CA-C	-8.63	99.62	112.04
7	1-L	60	ALA	CA-C-N	8.62	135.15	122.99
7	1-L	60	ALA	C-N-CA	8.62	135.15	122.99
7	2-L	60	ALA	CA-C-N	8.62	135.15	122.99
7	2-L	60	ALA	C-N-CA	8.62	135.15	122.99
7	3-L	60	ALA	CA-C-N	8.62	135.15	122.99
7	3-L	60	ALA	C-N-CA	8.62	135.15	122.99
6	1-G	640	THR	N-CA-C	-8.61	94.86	109.24
5	1-R	71	GLN	N-CA-C	-8.61	94.86	108.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	640	THR	N-CA-C	-8.61	94.86	109.24
5	2-R	71	GLN	N-CA-C	-8.61	94.86	108.63
6	1-K	640	THR	N-CA-C	-8.59	94.89	109.24
6	2-K	640	THR	N-CA-C	-8.59	94.89	109.24
6	1-K	609	ARG	CA-C-O	8.59	129.65	120.55
6	2-K	609	ARG	CA-C-O	8.59	129.65	120.55
2	2-B	804	VAL	N-CA-C	-8.58	95.61	108.99
2	3-B	804	VAL	N-CA-C	-8.58	95.61	108.99
2	2-B	893	LEU	N-CA-C	8.55	120.38	111.14
2	3-B	893	LEU	N-CA-C	8.55	120.38	111.14
5	1-R	150	ASN	CA-C-N	8.55	142.67	121.80
5	1-R	150	ASN	C-N-CA	8.55	142.67	121.80
5	2-R	150	ASN	CA-C-N	8.55	142.67	121.80
5	2-R	150	ASN	C-N-CA	8.55	142.67	121.80
5	3-R	150	ASN	CA-C-N	8.55	142.67	121.80
5	3-R	150	ASN	C-N-CA	8.55	142.67	121.80
1	2-A	647	THR	CA-C-N	8.54	131.73	120.28
1	2-A	647	THR	C-N-CA	8.54	131.73	120.28
1	3-A	647	THR	CA-C-N	8.54	131.73	120.28
1	3-A	647	THR	C-N-CA	8.54	131.73	120.28
6	1-G	609	ARG	CA-C-O	8.54	129.60	120.55
6	2-G	609	ARG	CA-C-O	8.54	129.60	120.55
1	1-A	509	HIS	N-CA-C	-8.53	95.50	109.40
1	2-A	509	HIS	N-CA-C	-8.53	95.50	109.40
1	3-A	509	HIS	N-CA-C	-8.53	95.50	109.40
1	3-A	236	GLU	N-CA-C	-8.52	92.65	110.80
1	2-A	371	ASN	N-CA-C	-8.51	90.03	108.93
1	3-A	371	ASN	N-CA-C	-8.51	90.03	108.93
2	2-B	837	ILE	N-CA-C	-8.47	91.72	109.34
2	3-B	837	ILE	N-CA-C	-8.47	91.72	109.34
1	2-A	105	TYR	CA-C-N	-8.46	109.26	119.84
1	2-A	105	TYR	C-N-CA	-8.46	109.26	119.84
1	3-A	105	TYR	CA-C-N	-8.46	109.26	119.84
1	3-A	105	TYR	C-N-CA	-8.46	109.26	119.84
1	1-A	515	ASN	N-CA-C	-8.46	97.25	110.36
1	2-A	515	ASN	N-CA-C	-8.46	97.25	110.36
2	2-B	850	CYS	N-CA-C	8.46	121.45	108.42
1	3-A	515	ASN	N-CA-C	-8.46	97.25	110.36
2	3-B	850	CYS	N-CA-C	8.46	121.45	108.42
2	2-B	740	PRO	N-CA-C	-8.45	95.06	112.47
2	3-B	740	PRO	N-CA-C	-8.45	95.06	112.47
6	1-K	858	ALA	N-CA-C	-8.45	95.13	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	858	ALA	N-CA-C	-8.45	95.13	109.24
6	3-K	858	ALA	N-CA-C	-8.45	95.13	109.24
6	2-G	858	ALA	N-CA-C	-8.44	95.14	109.24
6	3-G	858	ALA	N-CA-C	-8.44	95.14	109.24
5	1-R	96	ASP	N-CA-C	-8.44	94.97	108.73
5	2-R	96	ASP	N-CA-C	-8.44	94.97	108.73
5	3-R	96	ASP	N-CA-C	-8.44	94.97	108.73
3	2-C	682	GLN	CA-C-N	8.44	131.58	120.28
3	2-C	682	GLN	C-N-CA	8.44	131.58	120.28
3	3-C	682	GLN	CA-C-N	8.44	131.58	120.28
3	3-C	682	GLN	C-N-CA	8.44	131.58	120.28
6	1-K	762	ASP	N-CA-C	-8.43	102.78	113.23
6	2-K	762	ASP	N-CA-C	-8.43	102.78	113.23
6	1-G	762	ASP	N-CA-C	-8.42	102.78	113.23
1	2-A	132	THR	N-CA-C	-8.42	96.24	109.72
6	2-G	762	ASP	N-CA-C	-8.42	102.78	113.23
1	3-A	132	THR	N-CA-C	-8.42	96.24	109.72
3	1-C	262	ARG	N-CA-C	-8.40	96.59	109.95
3	2-C	262	ARG	N-CA-C	-8.40	96.59	109.95
6	1-G	150	ASP	CA-C-N	8.39	137.56	121.54
6	1-G	150	ASP	C-N-CA	8.39	137.56	121.54
6	2-G	150	ASP	CA-C-N	8.39	137.56	121.54
6	2-G	150	ASP	C-N-CA	8.39	137.56	121.54
6	2-G	368	MET	N-CA-C	8.38	120.41	111.28
5	2-R	42	VAL	CA-C-N	8.36	137.02	121.97
5	2-R	42	VAL	C-N-CA	8.36	137.02	121.97
4	1-D	131	ARG	CA-C-N	8.36	131.83	120.38
4	1-D	131	ARG	C-N-CA	8.36	131.83	120.38
3	2-C	807	VAL	N-CA-C	8.36	119.22	111.45
4	2-D	131	ARG	CA-C-N	8.36	131.83	120.38
4	2-D	131	ARG	C-N-CA	8.36	131.83	120.38
4	3-D	131	ARG	CA-C-N	8.36	131.83	120.38
4	3-D	131	ARG	C-N-CA	8.36	131.83	120.38
5	1-R	130	LEU	CA-C-N	8.35	130.27	119.84
5	1-R	130	LEU	C-N-CA	8.35	130.27	119.84
5	2-R	130	LEU	CA-C-N	8.35	130.27	119.84
5	2-R	130	LEU	C-N-CA	8.35	130.27	119.84
5	3-R	130	LEU	CA-C-N	8.35	130.27	119.84
5	3-R	130	LEU	C-N-CA	8.35	130.27	119.84
2	2-B	800	ILE	N-CA-C	-8.34	96.03	108.46
2	3-B	800	ILE	N-CA-C	-8.34	96.03	108.46
6	1-G	197	LEU	N-CA-C	8.34	120.37	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	197	LEU	N-CA-C	8.34	120.37	111.28
6	3-G	197	LEU	N-CA-C	8.34	120.37	111.28
3	1-C	446	GLY	N-CA-C	-8.33	98.54	110.96
3	2-C	446	GLY	N-CA-C	-8.33	98.54	110.96
3	3-C	446	GLY	N-CA-C	-8.33	98.54	110.96
7	2-Z	29	LYS	N-CA-C	-8.33	93.95	108.69
7	3-Z	29	LYS	N-CA-C	-8.33	93.95	108.69
2	1-B	103	THR	N-CA-C	-8.31	104.16	112.97
2	2-B	103	THR	N-CA-C	-8.31	104.16	112.97
2	3-B	103	THR	N-CA-C	-8.31	104.16	112.97
2	2-B	554	ARG	CA-C-N	8.31	128.94	120.38
2	2-B	554	ARG	C-N-CA	8.31	128.94	120.38
2	3-B	554	ARG	CA-C-N	8.31	128.94	120.38
2	3-B	554	ARG	C-N-CA	8.31	128.94	120.38
5	1-F	159	CYS	N-CA-C	-8.29	93.13	110.80
5	2-F	159	CYS	N-CA-C	-8.29	93.13	110.80
3	1-C	110	THR	N-CA-C	-8.29	100.93	112.45
4	1-D	50	GLU	N-CA-C	-8.29	94.76	108.76
7	1-Z	16	ILE	N-CA-C	-8.29	96.19	108.12
3	2-C	110	THR	N-CA-C	-8.29	100.93	112.45
4	2-D	50	GLU	N-CA-C	-8.29	94.76	108.76
7	2-Z	16	ILE	N-CA-C	-8.29	96.19	108.12
3	3-C	110	THR	N-CA-C	-8.29	100.93	112.45
4	3-D	50	GLU	N-CA-C	-8.29	94.76	108.76
7	3-Z	16	ILE	N-CA-C	-8.29	96.19	108.12
5	1-R	106	VAL	N-CA-C	8.27	118.36	110.42
5	2-R	106	VAL	N-CA-C	8.27	118.36	110.42
5	3-R	106	VAL	N-CA-C	8.27	118.36	110.42
3	1-C	155	ASN	CA-C-N	8.27	137.33	121.54
3	1-C	155	ASN	C-N-CA	8.27	137.33	121.54
3	2-C	155	ASN	CA-C-N	8.27	137.33	121.54
3	2-C	155	ASN	C-N-CA	8.27	137.33	121.54
3	3-C	155	ASN	CA-C-N	8.27	137.33	121.54
3	3-C	155	ASN	C-N-CA	8.27	137.33	121.54
6	1-K	797	LEU	CA-C-N	8.26	131.35	120.28
6	1-K	797	LEU	C-N-CA	8.26	131.35	120.28
6	2-K	797	LEU	CA-C-N	8.26	131.35	120.28
6	2-K	797	LEU	C-N-CA	8.26	131.35	120.28
6	3-K	797	LEU	CA-C-N	8.26	131.35	120.28
6	3-K	797	LEU	C-N-CA	8.26	131.35	120.28
7	1-Z	11	TYR	N-CA-C	-8.25	93.22	110.80
7	3-Z	11	TYR	N-CA-C	-8.25	93.22	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	1-L	35	TYR	N-CA-C	-8.25	97.66	109.62
7	2-L	35	TYR	N-CA-C	-8.25	97.66	109.62
7	3-L	35	TYR	N-CA-C	-8.25	97.66	109.62
7	1-L	48	ILE	N-CA-C	8.24	118.28	110.53
7	2-L	48	ILE	N-CA-C	8.24	118.28	110.53
7	3-L	48	ILE	N-CA-C	8.24	118.28	110.53
3	1-C	233	SER	N-CA-C	-8.24	102.38	111.36
3	2-C	233	SER	N-CA-C	-8.24	102.38	111.36
1	2-A	87	PHE	N-CA-C	-8.23	95.76	108.76
1	3-A	87	PHE	N-CA-C	-8.23	95.76	108.76
5	2-R	58	TYR	N-CA-C	-8.22	94.61	108.26
3	1-C	442	ARG	N-CA-C	-8.22	95.84	109.07
3	2-C	442	ARG	N-CA-C	-8.22	95.84	109.07
2	1-B	446	PHE	N-CA-C	-8.22	103.39	113.50
3	1-C	793	GLU	CA-C-N	8.21	131.29	120.28
3	1-C	793	GLU	C-N-CA	8.21	131.29	120.28
3	2-C	793	GLU	CA-C-N	8.21	131.29	120.28
3	2-C	793	GLU	C-N-CA	8.21	131.29	120.28
2	3-B	446	PHE	N-CA-C	-8.22	103.39	113.50
3	3-C	793	GLU	CA-C-N	8.21	131.29	120.28
3	3-C	793	GLU	C-N-CA	8.21	131.29	120.28
1	2-A	457	PHE	N-CA-C	-8.21	93.31	110.80
1	3-A	457	PHE	N-CA-C	-8.21	93.31	110.80
3	1-C	492	SER	N-CA-C	8.21	120.31	111.36
3	2-C	492	SER	N-CA-C	8.21	120.31	111.36
3	3-C	492	SER	N-CA-C	8.21	120.31	111.36
6	1-K	667	ASN	N-CA-C	-8.20	93.34	110.80
6	2-K	667	ASN	N-CA-C	-8.20	93.34	110.80
2	2-B	744	GLU	N-CA-C	-8.19	96.56	109.50
2	3-B	744	GLU	N-CA-C	-8.19	96.56	109.50
6	1-G	667	ASN	N-CA-C	-8.19	93.36	110.80
5	1-R	144	GLY	N-CA-C	-8.19	93.77	113.18
6	2-G	667	ASN	N-CA-C	-8.19	93.36	110.80
5	2-R	144	GLY	N-CA-C	-8.19	93.77	113.18
5	3-R	144	GLY	N-CA-C	-8.19	93.77	113.18
6	2-G	797	LEU	CA-C-N	8.17	131.23	120.28
6	2-G	797	LEU	C-N-CA	8.17	131.23	120.28
1	2-A	387	GLU	N-CA-C	-8.16	102.33	111.14
6	2-K	74	THR	N-CA-C	8.16	120.17	111.28
1	3-A	387	GLU	N-CA-C	-8.16	102.33	111.14
6	1-G	215	ILE	N-CA-C	-8.15	102.87	110.53
6	2-G	215	ILE	N-CA-C	-8.15	102.87	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-G	215	ILE	N-CA-C	-8.15	102.87	110.53
5	1-M	100	ILE	N-CA-C	8.15	118.19	110.53
5	2-M	100	ILE	N-CA-C	8.15	118.19	110.53
5	3-M	100	ILE	N-CA-C	8.15	118.19	110.53
6	1-K	242	GLU	N-CA-C	-8.14	103.36	113.38
6	2-K	242	GLU	N-CA-C	-8.14	103.36	113.38
6	1-K	695	ALA	N-CA-C	-8.14	95.31	108.41
6	2-K	695	ALA	N-CA-C	-8.14	95.31	108.41
1	2-A	392	ASP	N-CA-C	-8.14	95.01	108.76
1	3-A	392	ASP	N-CA-C	-8.14	95.01	108.76
6	1-K	645	GLU	N-CA-C	-8.13	102.36	111.71
6	2-K	645	GLU	N-CA-C	-8.13	102.36	111.71
3	1-C	327	LEU	N-CA-C	-8.13	96.22	108.99
3	2-C	327	LEU	N-CA-C	-8.13	96.22	108.99
3	3-C	327	LEU	N-CA-C	-8.13	96.22	108.99
6	1-G	831	ALA	CA-C-N	8.13	133.80	121.04
6	1-G	831	ALA	C-N-CA	8.13	133.80	121.04
6	2-G	831	ALA	CA-C-N	8.13	133.80	121.04
6	2-G	831	ALA	C-N-CA	8.13	133.80	121.04
6	3-G	831	ALA	CA-C-N	8.13	133.80	121.04
6	3-G	831	ALA	C-N-CA	8.13	133.80	121.04
6	1-K	831	ALA	CA-C-N	8.13	133.80	121.04
6	1-K	831	ALA	C-N-CA	8.13	133.80	121.04
6	2-K	831	ALA	CA-C-N	8.13	133.80	121.04
6	2-K	831	ALA	C-N-CA	8.13	133.80	121.04
6	1-K	693	VAL	CA-C-N	8.12	129.99	119.84
6	1-K	693	VAL	C-N-CA	8.12	129.99	119.84
6	2-K	693	VAL	CA-C-N	8.12	129.99	119.84
6	2-K	693	VAL	C-N-CA	8.12	129.99	119.84
1	2-A	436	LEU	N-CA-C	-8.12	97.04	109.95
1	3-A	436	LEU	N-CA-C	-8.12	97.04	109.95
3	1-C	522	GLU	CA-C-N	8.11	133.66	123.12
3	1-C	522	GLU	C-N-CA	8.11	133.66	123.12
1	2-A	409	GLU	N-CA-C	-8.11	102.42	112.88
1	3-A	409	GLU	N-CA-C	-8.11	102.42	112.88
3	3-C	522	GLU	CA-C-N	8.11	133.66	123.12
3	3-C	522	GLU	C-N-CA	8.11	133.66	123.12
2	2-B	795	HIS	CA-C-N	8.11	136.42	122.64
2	2-B	795	HIS	C-N-CA	8.11	136.42	122.64
2	3-B	795	HIS	CA-C-N	8.11	136.42	122.64
2	3-B	795	HIS	C-N-CA	8.11	136.42	122.64
7	1-Z	22	ASP	N-CA-C	-8.11	103.48	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	2-Z	22	ASP	N-CA-C	-8.11	103.48	112.72
7	3-Z	22	ASP	N-CA-C	-8.11	103.48	112.72
6	1-G	298	SER	CA-C-N	8.10	129.97	119.84
6	1-G	298	SER	C-N-CA	8.10	129.97	119.84
6	2-G	298	SER	CA-C-N	8.10	129.97	119.84
6	2-G	298	SER	C-N-CA	8.10	129.97	119.84
1	2-A	329	HIS	N-CA-C	-8.10	96.67	109.23
1	3-A	329	HIS	N-CA-C	-8.10	96.67	109.23
3	1-C	106	ALA	N-CA-C	-8.10	96.71	109.50
3	2-C	106	ALA	N-CA-C	-8.10	96.71	109.50
3	3-C	106	ALA	N-CA-C	-8.10	96.71	109.50
7	1-L	30	TYR	N-CA-C	-8.09	94.37	108.20
7	2-L	30	TYR	N-CA-C	-8.09	94.37	108.20
7	3-L	30	TYR	N-CA-C	-8.09	94.37	108.20
1	2-A	596	GLU	N-CA-C	8.07	120.99	111.71
6	2-K	96	SER	N-CA-C	8.07	127.99	110.80
1	3-A	596	GLU	N-CA-C	8.07	120.99	111.71
1	1-A	493	TYR	CA-C-N	8.06	133.50	123.10
1	1-A	493	TYR	C-N-CA	8.06	133.50	123.10
1	2-A	493	TYR	CA-C-N	8.06	133.50	123.10
1	2-A	493	TYR	C-N-CA	8.06	133.50	123.10
1	3-A	493	TYR	CA-C-N	8.06	133.50	123.10
1	3-A	493	TYR	C-N-CA	8.06	133.50	123.10
6	1-K	845	ARG	N-CA-C	-8.06	95.38	108.52
6	1-K	849	LEU	N-CA-C	-8.06	93.63	110.80
6	2-K	845	ARG	N-CA-C	-8.06	95.38	108.52
6	2-K	849	LEU	N-CA-C	-8.06	93.63	110.80
6	3-K	845	ARG	N-CA-C	-8.06	95.38	108.52
6	3-K	849	LEU	N-CA-C	-8.06	93.63	110.80
6	1-G	845	ARG	N-CA-C	-8.05	95.40	108.52
6	2-G	845	ARG	N-CA-C	-8.05	95.40	108.52
6	2-G	849	LEU	N-CA-C	-8.05	93.66	110.80
6	3-G	845	ARG	N-CA-C	-8.05	95.40	108.52
6	3-G	849	LEU	N-CA-C	-8.05	93.66	110.80
7	1-Z	25	ARG	N-CA-C	-8.04	94.45	108.69
7	2-Z	25	ARG	N-CA-C	-8.04	94.45	108.69
7	3-Z	25	ARG	N-CA-C	-8.04	94.45	108.69
2	2-B	829	ARG	N-CA-C	-8.03	104.08	114.04
2	3-B	829	ARG	N-CA-C	-8.03	104.08	114.04
1	2-A	636	GLU	N-CA-C	-8.03	102.50	111.82
1	3-A	636	GLU	N-CA-C	-8.03	102.50	111.82
1	1-A	664	ALA	CA-C-N	8.03	131.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-A	664	ALA	C-N-CA	8.03	131.03	120.28
1	2-A	664	ALA	CA-C-N	8.03	131.03	120.28
1	2-A	664	ALA	C-N-CA	8.03	131.03	120.28
1	3-A	664	ALA	CA-C-N	8.03	131.03	120.28
1	3-A	664	ALA	C-N-CA	8.03	131.03	120.28
1	2-A	413	SER	N-CA-C	-8.01	97.56	108.38
1	3-A	413	SER	N-CA-C	-8.01	97.56	108.38
6	1-K	817	ASP	CA-C-N	8.00	132.07	120.71
6	1-K	817	ASP	C-N-CA	8.00	132.07	120.71
6	2-K	817	ASP	CA-C-N	8.00	132.07	120.71
6	2-K	817	ASP	C-N-CA	8.00	132.07	120.71
6	3-K	817	ASP	CA-C-N	8.00	132.07	120.71
6	3-K	817	ASP	C-N-CA	8.00	132.07	120.71
6	1-G	189	ASN	CA-C-N	8.00	130.80	120.56
6	1-G	189	ASN	C-N-CA	8.00	130.80	120.56
5	1-M	154	PHE	N-CA-C	-8.00	96.12	108.76
6	2-G	189	ASN	CA-C-N	8.00	130.80	120.56
6	2-G	189	ASN	C-N-CA	8.00	130.80	120.56
5	2-M	154	PHE	N-CA-C	-8.00	96.12	108.76
6	3-G	189	ASN	CA-C-N	8.00	130.80	120.56
6	3-G	189	ASN	C-N-CA	8.00	130.80	120.56
5	3-M	154	PHE	N-CA-C	-8.00	96.12	108.76
1	1-A	655	CYS	N-CA-C	-7.99	101.86	111.69
1	2-A	655	CYS	N-CA-C	-7.99	101.86	111.69
1	3-A	655	CYS	N-CA-C	-7.99	101.86	111.69
3	1-C	530	VAL	N-CA-C	-7.99	95.51	106.85
3	3-C	530	VAL	N-CA-C	-7.99	95.51	106.85
6	1-G	484	HIS	N-CA-C	-7.98	93.80	110.80
6	1-G	817	ASP	CA-C-N	7.98	132.04	120.71
6	1-G	817	ASP	C-N-CA	7.98	132.04	120.71
6	2-G	484	HIS	N-CA-C	-7.98	93.80	110.80
6	2-G	817	ASP	CA-C-N	7.98	132.04	120.71
6	2-G	817	ASP	C-N-CA	7.98	132.04	120.71
6	3-G	817	ASP	CA-C-N	7.98	132.04	120.71
6	3-G	817	ASP	C-N-CA	7.98	132.04	120.71
6	1-G	485	GLU	N-CA-C	-7.98	102.53	111.07
6	2-G	485	GLU	N-CA-C	-7.98	102.53	111.07
6	2-K	206	ASN	N-CA-C	-7.98	93.95	107.99
1	2-A	532	SER	CA-C-N	7.97	132.58	121.26
1	2-A	532	SER	C-N-CA	7.97	132.58	121.26
1	2-A	622	GLY	N-CA-C	-7.97	94.28	113.18
1	3-A	532	SER	CA-C-N	7.97	132.58	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	532	SER	C-N-CA	7.97	132.58	121.26
1	3-A	622	GLY	N-CA-C	-7.97	94.28	113.18
2	1-B	385	VAL	CA-C-N	7.97	136.76	121.54
2	1-B	385	VAL	C-N-CA	7.97	136.76	121.54
1	3-A	767	LEU	CA-C-N	7.96	132.41	120.31
1	3-A	767	LEU	C-N-CA	7.96	132.41	120.31
6	1-G	682	GLU	CA-C-N	7.95	130.53	120.51
6	1-G	682	GLU	C-N-CA	7.95	130.53	120.51
6	2-G	682	GLU	CA-C-N	7.95	130.53	120.51
6	2-G	682	GLU	C-N-CA	7.95	130.53	120.51
3	1-C	549	GLY	N-CA-C	-7.95	104.59	114.92
3	2-C	549	GLY	N-CA-C	-7.95	104.59	114.92
3	3-C	549	GLY	N-CA-C	-7.95	104.59	114.92
2	2-B	822	VAL	N-CA-C	-7.95	96.98	108.11
2	3-B	822	VAL	N-CA-C	-7.95	96.98	108.11
6	1-K	682	GLU	CA-C-N	7.94	130.52	120.51
6	1-K	682	GLU	C-N-CA	7.94	130.52	120.51
6	2-K	682	GLU	CA-C-N	7.94	130.52	120.51
6	2-K	682	GLU	C-N-CA	7.94	130.52	120.51
5	2-R	30	LYS	CA-C-O	7.94	128.96	120.55
6	1-G	120	TYR	CA-C-N	7.92	130.74	120.44
6	1-G	120	TYR	C-N-CA	7.92	130.74	120.44
6	2-G	120	TYR	CA-C-N	7.92	130.74	120.44
6	2-G	120	TYR	C-N-CA	7.92	130.74	120.44
7	2-Z	30	TYR	N-CA-C	-7.92	94.67	108.20
7	3-Z	30	TYR	N-CA-C	-7.92	94.67	108.20
5	1-M	149	ARG	N-CA-C	-7.91	93.95	110.80
5	2-M	149	ARG	N-CA-C	-7.91	93.95	110.80
5	3-M	149	ARG	N-CA-C	-7.91	93.95	110.80
1	1-A	553	VAL	CA-C-N	7.90	134.08	122.39
1	1-A	553	VAL	C-N-CA	7.90	134.08	122.39
3	1-C	546	TYR	O-C-N	7.90	132.59	123.27
1	2-A	553	VAL	CA-C-N	7.90	134.08	122.39
1	2-A	553	VAL	C-N-CA	7.90	134.08	122.39
3	2-C	546	TYR	O-C-N	7.90	132.59	123.27
1	3-A	553	VAL	CA-C-N	7.90	134.08	122.39
1	3-A	553	VAL	C-N-CA	7.90	134.08	122.39
3	3-C	546	TYR	O-C-N	7.90	132.59	123.27
2	2-B	816	GLY	N-CA-C	-7.90	97.52	110.95
2	3-B	816	GLY	N-CA-C	-7.90	97.52	110.95
3	1-C	348	MET	N-CA-C	-7.89	97.73	108.86
3	2-C	348	MET	N-CA-C	-7.89	97.73	108.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-C	348	MET	N-CA-C	-7.89	97.73	108.86
3	1-C	178	ASN	N-CA-C	-7.88	102.77	111.36
3	2-C	178	ASN	N-CA-C	-7.88	102.77	111.36
3	3-C	178	ASN	N-CA-C	-7.88	102.77	111.36
3	1-C	254	ARG	N-CA-C	-7.88	97.06	109.50
3	2-C	254	ARG	N-CA-C	-7.88	97.06	109.50
3	1-C	517	LEU	N-CA-C	7.87	121.00	111.40
3	2-C	517	LEU	N-CA-C	7.87	121.00	111.40
3	3-C	517	LEU	N-CA-C	7.87	121.00	111.40
2	2-B	908	ALA	CA-C-N	-7.86	112.16	123.00
2	2-B	908	ALA	C-N-CA	-7.86	112.16	123.00
2	3-B	908	ALA	CA-C-N	-7.86	112.16	123.00
2	3-B	908	ALA	C-N-CA	-7.86	112.16	123.00
1	2-A	73	TYR	N-CA-C	-7.86	94.06	110.80
1	3-A	73	TYR	N-CA-C	-7.86	94.06	110.80
3	1-C	103	ARG	N-CA-C	7.85	120.98	111.40
3	2-C	103	ARG	N-CA-C	7.85	120.98	111.40
3	3-C	103	ARG	N-CA-C	7.85	120.98	111.40
1	2-A	55	ARG	CA-C-N	-7.85	115.57	121.61
1	2-A	55	ARG	C-N-CA	-7.85	115.57	121.61
1	3-A	55	ARG	CA-C-N	-7.85	115.57	121.61
1	3-A	55	ARG	C-N-CA	-7.85	115.57	121.61
1	1-A	543	TYR	N-CA-C	-7.84	97.39	109.24
1	2-A	543	TYR	N-CA-C	-7.84	97.39	109.24
1	3-A	543	TYR	N-CA-C	-7.84	97.39	109.24
1	2-A	50	HIS	CA-C-N	7.83	131.11	120.54
1	2-A	50	HIS	C-N-CA	7.83	131.11	120.54
1	3-A	50	HIS	CA-C-N	7.83	131.11	120.54
1	3-A	50	HIS	C-N-CA	7.83	131.11	120.54
7	2-Z	56	ASP	N-CA-C	-7.79	97.32	108.07
7	3-Z	56	ASP	N-CA-C	-7.79	97.32	108.07
7	1-Z	85	GLU	CA-C-N	7.78	132.90	121.31
7	1-Z	85	GLU	C-N-CA	7.78	132.90	121.31
7	2-Z	85	GLU	CA-C-N	7.78	132.90	121.31
7	2-Z	85	GLU	C-N-CA	7.78	132.90	121.31
3	1-C	839	ALA	N-CA-C	7.77	119.38	111.07
3	2-C	839	ALA	N-CA-C	7.77	119.38	111.07
3	3-C	839	ALA	N-CA-C	7.77	119.38	111.07
1	2-A	97	ARG	N-CA-C	7.76	121.24	111.69
1	3-A	97	ARG	N-CA-C	7.76	121.24	111.69
2	1-B	390	ASP	N-CA-C	-7.76	102.86	113.18
6	1-G	253	ASP	CA-C-N	7.76	130.52	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-G	253	ASP	C-N-CA	7.76	130.52	120.44
6	2-G	253	ASP	CA-C-N	7.76	130.52	120.44
6	2-G	253	ASP	C-N-CA	7.76	130.52	120.44
1	2-A	149	LEU	N-CA-C	-7.75	98.12	110.14
2	2-B	878	ASN	N-CA-C	-7.75	99.02	111.04
1	3-A	149	LEU	N-CA-C	-7.75	98.12	110.14
2	3-B	878	ASN	N-CA-C	-7.75	99.02	111.04
6	1-G	178	VAL	CA-C-O	-7.74	113.00	121.05
6	2-G	178	VAL	CA-C-O	-7.74	113.00	121.05
2	2-B	928	LYS	N-CA-C	7.73	126.90	109.81
2	3-B	928	LYS	N-CA-C	7.73	126.90	109.81
1	3-A	797	PRO	N-CA-C	7.73	120.13	110.70
5	1-M	59	LYS	N-CA-C	-7.72	102.04	113.40
5	2-M	59	LYS	N-CA-C	-7.72	102.04	113.40
5	3-M	59	LYS	N-CA-C	-7.72	102.04	113.40
2	2-B	550	LYS	N-CA-C	-7.72	103.70	113.43
2	3-B	550	LYS	N-CA-C	-7.72	103.70	113.43
3	1-C	175	SER	CA-C-N	7.71	133.25	122.06
3	1-C	175	SER	C-N-CA	7.71	133.25	122.06
3	2-C	175	SER	CA-C-N	7.71	133.25	122.06
3	2-C	175	SER	C-N-CA	7.71	133.25	122.06
3	3-C	175	SER	CA-C-N	7.71	133.25	122.06
3	3-C	175	SER	C-N-CA	7.71	133.25	122.06
6	2-K	215	ILE	N-CA-C	-7.71	103.28	110.53
2	2-B	758	VAL	N-CA-C	-7.71	96.32	108.81
2	3-B	758	VAL	N-CA-C	-7.71	96.32	108.81
4	1-D	266	ALA	CA-C-N	-7.71	112.44	120.38
4	1-D	266	ALA	C-N-CA	-7.71	112.44	120.38
4	2-D	266	ALA	CA-C-N	-7.71	112.44	120.38
4	2-D	266	ALA	C-N-CA	-7.71	112.44	120.38
4	3-D	266	ALA	CA-C-N	-7.71	112.44	120.38
4	3-D	266	ALA	C-N-CA	-7.71	112.44	120.38
3	1-C	316	TRP	N-CA-C	-7.70	98.02	109.81
3	2-C	316	TRP	N-CA-C	-7.70	98.02	109.81
3	3-C	316	TRP	N-CA-C	-7.70	98.02	109.81
2	1-B	370	GLU	N-CA-C	-7.69	102.90	111.28
2	2-B	370	GLU	N-CA-C	-7.69	102.90	111.28
2	3-B	370	GLU	N-CA-C	-7.69	102.90	111.28
3	1-C	27	GLU	N-CA-C	-7.69	92.82	109.81
4	1-D	147	VAL	N-CA-C	7.69	117.80	110.42
3	2-C	27	GLU	N-CA-C	-7.69	92.82	109.81
4	2-D	147	VAL	N-CA-C	7.69	117.80	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-C	27	GLU	N-CA-C	-7.69	92.82	109.81
4	3-D	147	VAL	N-CA-C	7.69	117.80	110.42
1	1-A	562	ARG	N-CA-C	-7.68	97.39	108.60
1	2-A	562	ARG	N-CA-C	-7.68	97.39	108.60
1	3-A	562	ARG	N-CA-C	-7.68	97.39	108.60
2	1-B	536	TYR	N-CA-C	-7.68	102.85	111.07
2	3-B	536	TYR	N-CA-C	-7.68	102.85	111.07
1	1-A	737	LEU	N-CA-C	7.67	119.72	111.36
5	2-R	41	GLU	CA-C-N	7.67	135.78	121.97
5	2-R	41	GLU	C-N-CA	7.67	135.78	121.97
1	3-A	737	LEU	N-CA-C	7.67	119.72	111.36
3	1-C	538	SER	N-CA-C	-7.66	97.65	109.52
3	2-C	538	SER	N-CA-C	-7.66	97.65	109.52
3	3-C	538	SER	N-CA-C	-7.66	97.65	109.52
6	1-G	129	CYS	N-CA-C	7.65	120.51	111.71
6	2-G	129	CYS	N-CA-C	7.65	120.51	111.71
5	1-F	96	ASP	N-CA-C	-7.65	97.11	109.96
7	1-Z	86	ASN	CA-C-N	7.65	130.53	120.28
7	1-Z	86	ASN	C-N-CA	7.65	130.53	120.28
7	1-L	111	LYS	N-CA-C	-7.65	102.94	111.28
5	2-F	96	ASP	N-CA-C	-7.65	97.11	109.96
7	2-Z	86	ASN	CA-C-N	7.65	130.53	120.28
7	2-Z	86	ASN	C-N-CA	7.65	130.53	120.28
7	2-L	111	LYS	N-CA-C	-7.65	102.94	111.28
7	3-L	111	LYS	N-CA-C	-7.65	102.94	111.28
6	2-K	63	THR	N-CA-C	7.64	119.25	111.07
3	1-C	569	LYS	CA-C-N	7.64	133.47	120.72
3	1-C	569	LYS	C-N-CA	7.64	133.47	120.72
3	2-C	569	LYS	CA-C-N	7.64	133.47	120.72
3	2-C	569	LYS	C-N-CA	7.64	133.47	120.72
3	3-C	569	LYS	CA-C-N	7.64	133.47	120.72
3	3-C	569	LYS	C-N-CA	7.64	133.47	120.72
1	2-A	78	TRP	N-CA-C	-7.63	96.09	109.06
1	3-A	78	TRP	N-CA-C	-7.63	96.09	109.06
3	1-C	574	TYR	N-CA-C	-7.62	96.97	109.40
3	2-C	574	TYR	N-CA-C	-7.62	96.97	109.40
3	3-C	574	TYR	N-CA-C	-7.62	96.97	109.40
5	1-F	30	LYS	N-CA-C	-7.60	102.99	111.28
5	2-F	30	LYS	N-CA-C	-7.60	102.99	111.28
6	2-K	104	ILE	CA-C-O	7.60	128.85	120.95
1	2-A	221	VAL	N-CA-C	-7.58	97.16	108.46
1	3-A	221	VAL	N-CA-C	-7.58	97.16	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-G	419	ASP	N-CA-C	7.58	119.18	111.07
6	1-K	777	ASP	CA-C-N	7.58	130.44	120.28
6	1-K	777	ASP	C-N-CA	7.58	130.44	120.28
6	2-G	419	ASP	N-CA-C	7.58	119.18	111.07
6	2-K	777	ASP	CA-C-N	7.58	130.44	120.28
6	2-K	777	ASP	C-N-CA	7.58	130.44	120.28
6	1-G	218	PHE	N-CA-C	-7.58	102.96	111.07
6	2-G	218	PHE	N-CA-C	-7.58	102.96	111.07
6	3-G	218	PHE	N-CA-C	-7.58	102.96	111.07
5	1-M	169	GLY	N-CA-C	-7.57	103.71	112.50
5	2-M	169	GLY	N-CA-C	-7.57	103.71	112.50
5	3-M	169	GLY	N-CA-C	-7.57	103.71	112.50
1	2-A	200	VAL	N-CA-C	-7.57	97.54	108.36
1	3-A	200	VAL	N-CA-C	-7.57	97.54	108.36
1	1-A	487	LYS	CA-C-N	7.57	135.59	121.97
1	1-A	487	LYS	C-N-CA	7.57	135.59	121.97
6	1-K	772	PHE	CA-C-O	-7.57	112.91	120.70
1	2-A	487	LYS	CA-C-N	7.57	135.59	121.97
1	2-A	487	LYS	C-N-CA	7.57	135.59	121.97
6	2-K	772	PHE	CA-C-O	-7.57	112.91	120.70
1	3-A	487	LYS	CA-C-N	7.57	135.59	121.97
1	3-A	487	LYS	C-N-CA	7.57	135.59	121.97
1	2-A	602	ALA	CA-C-N	7.56	130.42	120.28
1	2-A	602	ALA	C-N-CA	7.56	130.42	120.28
1	3-A	602	ALA	CA-C-N	7.56	130.42	120.28
1	3-A	602	ALA	C-N-CA	7.56	130.42	120.28
6	1-K	673	THR	N-CA-C	-7.56	96.21	109.06
1	2-A	617	ASN	N-CA-C	7.56	121.93	112.03
6	2-K	673	THR	N-CA-C	-7.56	96.21	109.06
1	3-A	617	ASN	N-CA-C	7.56	121.93	112.03
3	1-C	472	ASP	N-CA-C	-7.56	96.20	108.52
3	2-C	472	ASP	N-CA-C	-7.56	96.20	108.52
3	3-C	472	ASP	N-CA-C	-7.56	96.20	108.52
3	1-C	237	PHE	N-CA-C	-7.55	96.92	109.46
3	2-C	237	PHE	N-CA-C	-7.55	96.92	109.46
6	2-G	772	PHE	CA-C-O	-7.55	112.92	120.70
6	1-G	673	THR	N-CA-C	-7.55	96.22	109.06
6	2-G	673	THR	N-CA-C	-7.55	96.22	109.06
6	1-G	498	PHE	CA-C-N	7.53	128.15	119.94
6	1-G	498	PHE	C-N-CA	7.53	128.15	119.94
6	2-G	498	PHE	CA-C-N	7.53	128.15	119.94
6	2-G	498	PHE	C-N-CA	7.53	128.15	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	777	ASP	CA-C-N	7.53	130.37	120.28
6	2-G	777	ASP	C-N-CA	7.53	130.37	120.28
3	1-C	8	LYS	N-CA-C	-7.53	97.56	109.23
3	2-C	8	LYS	N-CA-C	-7.53	97.56	109.23
3	3-C	8	LYS	N-CA-C	-7.53	97.56	109.23
5	1-M	69	GLY	N-CA-C	-7.52	95.35	113.18
5	1-M	156	GLN	CA-C-N	7.52	131.48	120.95
5	1-M	156	GLN	C-N-CA	7.52	131.48	120.95
5	2-M	69	GLY	N-CA-C	-7.52	95.35	113.18
5	2-M	156	GLN	CA-C-N	7.52	131.48	120.95
5	2-M	156	GLN	C-N-CA	7.52	131.48	120.95
5	3-M	69	GLY	N-CA-C	-7.52	95.35	113.18
5	3-M	156	GLN	CA-C-N	7.52	131.48	120.95
5	3-M	156	GLN	C-N-CA	7.52	131.48	120.95
3	1-C	424	PHE	N-CA-C	-7.52	94.78	110.80
2	2-B	927	GLU	N-CA-C	7.52	123.70	111.37
3	2-C	424	PHE	N-CA-C	-7.52	94.78	110.80
2	3-B	927	GLU	N-CA-C	7.52	123.70	111.37
3	3-C	424	PHE	N-CA-C	-7.52	94.78	110.80
1	1-A	557	ASP	N-CA-C	7.52	122.07	110.42
4	1-D	56	TYR	CA-C-N	-7.52	112.69	123.06
4	1-D	56	TYR	C-N-CA	-7.52	112.69	123.06
7	1-L	13	VAL	N-CA-C	-7.52	96.73	108.23
1	2-A	557	ASP	N-CA-C	7.52	122.07	110.42
4	2-D	56	TYR	CA-C-N	-7.52	112.69	123.06
4	2-D	56	TYR	C-N-CA	-7.52	112.69	123.06
7	2-L	13	VAL	N-CA-C	-7.52	96.73	108.23
1	3-A	557	ASP	N-CA-C	7.52	122.07	110.42
4	3-D	56	TYR	CA-C-N	-7.52	112.69	123.06
4	3-D	56	TYR	C-N-CA	-7.52	112.69	123.06
7	3-L	13	VAL	N-CA-C	-7.52	96.73	108.23
6	1-G	433	GLU	CA-C-N	7.51	130.21	120.44
6	1-G	433	GLU	C-N-CA	7.51	130.21	120.44
6	2-G	433	GLU	CA-C-N	7.51	130.21	120.44
6	2-G	433	GLU	C-N-CA	7.51	130.21	120.44
4	1-D	24	MET	CA-C-N	7.50	135.87	121.54
4	1-D	24	MET	C-N-CA	7.50	135.87	121.54
4	2-D	24	MET	CA-C-N	7.50	135.87	121.54
4	2-D	24	MET	C-N-CA	7.50	135.87	121.54
4	3-D	24	MET	CA-C-N	7.50	135.87	121.54
4	3-D	24	MET	C-N-CA	7.50	135.87	121.54
4	1-D	77	LEU	CA-C-N	7.50	130.19	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-D	77	LEU	C-N-CA	7.50	130.19	120.44
4	2-D	77	LEU	CA-C-N	7.50	130.19	120.44
4	2-D	77	LEU	C-N-CA	7.50	130.19	120.44
4	3-D	77	LEU	CA-C-N	7.50	130.19	120.44
4	3-D	77	LEU	C-N-CA	7.50	130.19	120.44
6	1-G	39	ILE	N-CA-C	-7.50	97.11	107.75
6	2-G	39	ILE	N-CA-C	-7.50	97.11	107.75
6	3-G	39	ILE	N-CA-C	-7.50	97.11	107.75
3	1-C	594	TYR	N-CA-C	-7.50	103.05	111.07
2	2-B	782	LYS	N-CA-C	-7.50	97.22	108.99
3	2-C	594	TYR	N-CA-C	-7.50	103.05	111.07
2	3-B	782	LYS	N-CA-C	-7.50	97.22	108.99
3	3-C	594	TYR	N-CA-C	-7.50	103.05	111.07
7	2-Z	69	TYR	N-CA-C	-7.49	97.68	109.07
6	2-K	132	THR	N-CA-C	7.49	121.47	110.17
2	3-B	48	GLY	N-CA-C	-7.49	95.44	113.18
1	1-A	245	CYS	N-CA-C	-7.47	97.06	109.24
1	1-A	540	VAL	CA-C-N	-7.47	112.58	123.05
1	1-A	540	VAL	C-N-CA	-7.47	112.58	123.05
6	1-G	54	LEU	CA-C-N	7.47	131.03	120.42
6	1-G	54	LEU	C-N-CA	7.47	131.03	120.42
1	2-A	540	VAL	CA-C-N	-7.47	112.58	123.05
1	2-A	540	VAL	C-N-CA	-7.47	112.58	123.05
6	2-G	54	LEU	CA-C-N	7.47	131.03	120.42
6	2-G	54	LEU	C-N-CA	7.47	131.03	120.42
1	3-A	245	CYS	N-CA-C	-7.47	97.06	109.24
1	3-A	540	VAL	CA-C-N	-7.47	112.58	123.05
1	3-A	540	VAL	C-N-CA	-7.47	112.58	123.05
1	2-A	325	ALA	N-CA-C	7.47	126.72	110.80
1	3-A	325	ALA	N-CA-C	7.47	126.72	110.80
2	1-B	504	VAL	N-CA-C	7.47	124.88	109.34
2	3-B	504	VAL	N-CA-C	7.47	124.88	109.34
6	2-K	80	ASN	N-CA-C	-7.47	94.89	110.80
3	2-C	456	GLU	CA-C-N	-7.46	112.49	122.42
3	2-C	456	GLU	C-N-CA	-7.46	112.49	122.42
3	3-C	456	GLU	CA-C-N	-7.46	112.49	122.42
3	3-C	456	GLU	C-N-CA	-7.46	112.49	122.42
3	1-C	58	LEU	N-CA-C	-7.46	100.00	110.29
3	2-C	58	LEU	N-CA-C	-7.46	100.00	110.29
3	3-C	58	LEU	N-CA-C	-7.46	100.00	110.29
3	1-C	174	SER	N-CA-C	-7.45	94.93	110.80
3	2-C	174	SER	N-CA-C	-7.45	94.93	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-C	174	SER	N-CA-C	-7.45	94.93	110.80
1	2-A	324	PRO	CA-C-N	7.44	135.76	121.54
1	2-A	324	PRO	C-N-CA	7.44	135.76	121.54
1	3-A	324	PRO	CA-C-N	7.44	135.76	121.54
1	3-A	324	PRO	C-N-CA	7.44	135.76	121.54
4	1-D	29	ILE	N-CA-C	-7.44	93.87	109.34
4	2-D	29	ILE	N-CA-C	-7.44	93.87	109.34
4	3-D	29	ILE	N-CA-C	-7.44	93.87	109.34
3	1-C	7	ILE	N-CA-C	-7.43	97.32	108.17
5	1-F	35	TYR	CA-C-N	7.43	130.10	120.44
5	1-F	35	TYR	C-N-CA	7.43	130.10	120.44
3	2-C	7	ILE	N-CA-C	-7.43	97.32	108.17
5	2-F	35	TYR	CA-C-N	7.43	130.10	120.44
5	2-F	35	TYR	C-N-CA	7.43	130.10	120.44
3	3-C	7	ILE	N-CA-C	-7.43	97.32	108.17
2	1-B	410	PRO	N-CA-C	-7.43	97.17	112.47
1	2-A	437	ILE	N-CA-C	-7.43	97.60	108.89
1	3-A	437	ILE	N-CA-C	-7.43	97.60	108.89
2	3-B	410	PRO	N-CA-C	-7.43	97.17	112.47
3	1-C	368	VAL	N-CA-C	-7.43	97.71	108.11
3	3-C	368	VAL	N-CA-C	-7.43	97.71	108.11
3	1-C	78	ASP	N-CA-C	-7.42	103.96	113.16
3	2-C	78	ASP	N-CA-C	-7.42	103.96	113.16
3	3-C	78	ASP	N-CA-C	-7.42	103.96	113.16
6	1-G	414	LYS	CA-C-N	7.42	130.08	120.44
6	1-G	414	LYS	C-N-CA	7.42	130.08	120.44
6	2-G	414	LYS	CA-C-N	7.42	130.08	120.44
6	2-G	414	LYS	C-N-CA	7.42	130.08	120.44
3	1-C	88	THR	N-CA-C	-7.41	95.01	110.80
3	2-C	88	THR	N-CA-C	-7.41	95.01	110.80
3	3-C	88	THR	N-CA-C	-7.41	95.01	110.80
4	1-D	76	ILE	N-CA-C	7.40	117.53	110.42
4	2-D	76	ILE	N-CA-C	7.40	117.53	110.42
4	3-D	76	ILE	N-CA-C	7.40	117.53	110.42
3	1-C	407	GLU	N-CA-C	-7.39	98.56	110.32
3	2-C	407	GLU	N-CA-C	-7.39	98.56	110.32
3	3-C	407	GLU	N-CA-C	-7.39	98.56	110.32
6	1-K	616	GLN	CA-C-N	7.39	130.18	120.28
6	1-K	616	GLN	C-N-CA	7.39	130.18	120.28
6	2-K	616	GLN	CA-C-N	7.39	130.18	120.28
6	2-K	616	GLN	C-N-CA	7.39	130.18	120.28
3	1-C	290	TYR	N-CA-C	-7.39	98.18	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-G	683	PRO	N-CA-C	7.39	125.60	112.01
3	2-C	290	TYR	N-CA-C	-7.39	98.18	109.41
6	2-G	683	PRO	N-CA-C	7.39	125.60	112.01
3	3-C	290	TYR	N-CA-C	-7.39	98.18	109.41
2	2-B	851	THR	CA-C-N	7.38	130.17	120.28
2	2-B	851	THR	C-N-CA	7.38	130.17	120.28
2	3-B	851	THR	CA-C-N	7.38	130.17	120.28
2	3-B	851	THR	C-N-CA	7.38	130.17	120.28
3	1-C	526	THR	N-CA-C	-7.38	97.97	108.96
3	3-C	526	THR	N-CA-C	-7.38	97.97	108.96
1	2-A	423	ARG	CA-C-N	7.38	135.63	121.54
1	2-A	423	ARG	C-N-CA	7.38	135.63	121.54
1	3-A	423	ARG	CA-C-N	7.38	135.63	121.54
1	3-A	423	ARG	C-N-CA	7.38	135.63	121.54
6	1-G	319	PRO	CA-C-N	7.38	130.16	120.28
6	1-G	319	PRO	C-N-CA	7.38	130.16	120.28
6	2-G	319	PRO	CA-C-N	7.38	130.16	120.28
6	2-G	319	PRO	C-N-CA	7.38	130.16	120.28
5	1-R	151	ARG	N-CA-C	7.37	126.11	109.81
5	2-R	151	ARG	N-CA-C	7.37	126.11	109.81
5	3-R	151	ARG	N-CA-C	7.37	126.11	109.81
6	1-G	525	ARG	CA-C-N	7.37	130.15	120.28
6	1-G	525	ARG	C-N-CA	7.37	130.15	120.28
6	2-G	525	ARG	CA-C-N	7.37	130.15	120.28
6	2-G	525	ARG	C-N-CA	7.37	130.15	120.28
2	2-B	833	VAL	N-CA-C	-7.37	97.80	108.11
2	3-B	833	VAL	N-CA-C	-7.37	97.80	108.11
6	1-G	616	GLN	CA-C-N	7.36	130.15	120.28
6	1-G	616	GLN	C-N-CA	7.36	130.15	120.28
6	2-G	616	GLN	CA-C-N	7.36	130.15	120.28
6	2-G	616	GLN	C-N-CA	7.36	130.15	120.28
5	1-R	146	HIS	N-CA-C	-7.36	104.27	113.18
3	2-C	683	PHE	N-CA-C	7.36	119.30	111.28
5	2-R	146	HIS	N-CA-C	-7.36	104.27	113.18
3	3-C	683	PHE	N-CA-C	7.36	119.30	111.28
5	3-R	146	HIS	N-CA-C	-7.36	104.27	113.18
6	1-G	800	ALA	CA-C-N	7.36	130.54	120.46
6	1-G	800	ALA	C-N-CA	7.36	130.54	120.46
6	2-G	800	ALA	CA-C-N	7.36	130.54	120.46
6	2-G	800	ALA	C-N-CA	7.36	130.54	120.46
6	3-G	800	ALA	CA-C-N	7.36	130.54	120.46
6	3-G	800	ALA	C-N-CA	7.36	130.54	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-K	37	THR	CA-C-N	7.36	129.03	119.84
6	1-K	37	THR	C-N-CA	7.36	129.03	119.84
6	2-K	37	THR	CA-C-N	7.36	129.03	119.84
6	2-K	37	THR	C-N-CA	7.36	129.03	119.84
6	1-K	683	PRO	N-CA-C	7.35	125.54	112.01
6	2-K	683	PRO	N-CA-C	7.35	125.54	112.01
7	1-L	18	ILE	O-C-N	7.34	130.81	123.18
7	2-L	18	ILE	O-C-N	7.34	130.81	123.18
7	3-L	18	ILE	O-C-N	7.34	130.81	123.18
1	2-A	426	PHE	N-CA-C	-7.34	99.05	110.42
1	3-A	426	PHE	N-CA-C	-7.34	99.05	110.42
1	2-A	280	LYS	N-CA-C	-7.33	103.30	114.16
1	3-A	280	LYS	N-CA-C	-7.33	103.30	114.16
6	1-G	494	ALA	CA-C-O	7.33	128.32	120.55
6	2-G	494	ALA	CA-C-O	7.33	128.32	120.55
7	1-L	102	SER	CA-C-N	7.33	130.09	120.28
7	1-L	102	SER	C-N-CA	7.33	130.09	120.28
5	1-M	148	ILE	CA-C-N	7.33	135.53	121.54
5	1-M	148	ILE	C-N-CA	7.33	135.53	121.54
7	2-L	102	SER	CA-C-N	7.33	130.09	120.28
7	2-L	102	SER	C-N-CA	7.33	130.09	120.28
5	2-M	148	ILE	CA-C-N	7.33	135.53	121.54
5	2-M	148	ILE	C-N-CA	7.33	135.53	121.54
7	3-L	102	SER	CA-C-N	7.33	130.09	120.28
7	3-L	102	SER	C-N-CA	7.33	130.09	120.28
5	3-M	148	ILE	CA-C-N	7.33	135.53	121.54
5	3-M	148	ILE	C-N-CA	7.33	135.53	121.54
3	1-C	314	ILE	N-CA-C	-7.32	97.30	107.99
3	2-C	314	ILE	N-CA-C	-7.32	97.30	107.99
3	3-C	314	ILE	N-CA-C	-7.32	97.30	107.99
3	1-C	661	ALA	N-CA-C	-7.32	103.24	111.07
1	2-A	155	LEU	N-CA-C	-7.32	104.38	112.72
3	2-C	661	ALA	N-CA-C	-7.32	103.24	111.07
1	3-A	155	LEU	N-CA-C	-7.32	104.38	112.72
3	3-C	661	ALA	N-CA-C	-7.32	103.24	111.07
3	1-C	218	ASN	N-CA-C	-7.32	102.47	111.40
6	1-K	800	ALA	CA-C-N	7.32	130.48	120.46
6	1-K	800	ALA	C-N-CA	7.32	130.48	120.46
3	2-C	218	ASN	N-CA-C	-7.32	102.47	111.40
6	2-K	800	ALA	CA-C-N	7.32	130.48	120.46
6	2-K	800	ALA	C-N-CA	7.32	130.48	120.46
6	1-G	300	LYS	N-CA-C	-7.31	95.23	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	300	LYS	N-CA-C	-7.31	95.23	110.80
1	2-A	105	TYR	N-CA-C	-7.31	93.54	109.11
1	3-A	105	TYR	N-CA-C	-7.31	93.54	109.11
3	1-C	575	LEU	N-CA-C	-7.30	98.31	109.85
3	2-C	575	LEU	N-CA-C	-7.30	98.31	109.85
3	3-C	575	LEU	N-CA-C	-7.30	98.31	109.85
1	2-A	386	LEU	N-CA-C	-7.30	98.78	108.19
1	3-A	386	LEU	N-CA-C	-7.30	98.78	108.19
3	1-C	726	ASN	N-CA-C	7.29	119.22	111.28
3	2-C	726	ASN	N-CA-C	7.29	119.22	111.28
3	3-C	726	ASN	N-CA-C	7.29	119.22	111.28
3	1-C	36	ASN	N-CA-C	-7.27	101.58	112.04
1	2-A	332	MET	CA-C-N	7.27	132.84	122.09
1	2-A	332	MET	C-N-CA	7.27	132.84	122.09
3	2-C	36	ASN	N-CA-C	-7.27	101.58	112.04
1	3-A	332	MET	CA-C-N	7.27	132.84	122.09
1	3-A	332	MET	C-N-CA	7.27	132.84	122.09
3	3-C	36	ASN	N-CA-C	-7.27	101.58	112.04
1	2-A	89	LEU	N-CA-C	-7.26	97.60	108.99
1	2-A	188	ASP	CA-C-N	7.26	133.13	120.87
1	2-A	188	ASP	C-N-CA	7.26	133.13	120.87
1	3-A	89	LEU	N-CA-C	-7.26	97.60	108.99
1	3-A	188	ASP	CA-C-N	7.26	133.13	120.87
1	3-A	188	ASP	C-N-CA	7.26	133.13	120.87
6	1-G	107	SER	CA-C-N	7.25	130.00	120.28
6	1-G	107	SER	C-N-CA	7.25	130.00	120.28
6	1-G	844	SER	N-CA-C	-7.25	96.45	108.34
6	2-G	107	SER	CA-C-N	7.25	130.00	120.28
6	2-G	107	SER	C-N-CA	7.25	130.00	120.28
6	2-G	844	SER	N-CA-C	-7.25	96.45	108.34
6	3-G	844	SER	N-CA-C	-7.25	96.45	108.34
3	2-C	469	PHE	N-CA-C	-7.25	97.13	109.24
3	3-C	469	PHE	N-CA-C	-7.25	97.13	109.24
3	1-C	545	TYR	N-CA-C	-7.25	98.00	109.23
3	2-C	545	TYR	N-CA-C	-7.25	98.00	109.23
3	3-C	545	TYR	N-CA-C	-7.25	98.00	109.23
2	2-B	807	ALA	N-CA-C	-7.24	103.63	114.64
2	3-B	807	ALA	N-CA-C	-7.24	103.63	114.64
3	1-C	651	LEU	N-CA-C	7.24	119.25	111.36
3	2-C	651	LEU	N-CA-C	7.24	119.25	111.36
3	3-C	651	LEU	N-CA-C	7.24	119.25	111.36
6	2-G	796	THR	CA-C-N	7.24	130.57	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	796	THR	C-N-CA	7.24	130.57	120.29
1	2-A	636	GLU	CA-C-N	7.24	130.69	120.42
1	2-A	636	GLU	C-N-CA	7.24	130.69	120.42
1	3-A	636	GLU	CA-C-N	7.24	130.69	120.42
1	3-A	636	GLU	C-N-CA	7.24	130.69	120.42
3	1-C	630	PHE	N-CA-C	-7.23	99.51	109.71
3	2-C	630	PHE	N-CA-C	-7.23	99.51	109.71
3	3-C	630	PHE	N-CA-C	-7.23	99.51	109.71
1	1-A	516	ARG	CA-C-N	7.23	135.35	121.54
1	1-A	516	ARG	C-N-CA	7.23	135.35	121.54
1	2-A	516	ARG	CA-C-N	7.23	135.35	121.54
1	2-A	516	ARG	C-N-CA	7.23	135.35	121.54
1	3-A	516	ARG	CA-C-N	7.23	135.35	121.54
1	3-A	516	ARG	C-N-CA	7.23	135.35	121.54
3	1-C	244	ILE	N-CA-C	-7.22	97.70	108.46
3	2-C	244	ILE	N-CA-C	-7.22	97.70	108.46
5	1-M	159	CYS	N-CA-C	-7.22	97.63	109.40
1	2-A	393	LEU	N-CA-C	-7.22	97.96	109.59
5	2-M	159	CYS	N-CA-C	-7.22	97.63	109.40
1	3-A	393	LEU	N-CA-C	-7.22	97.96	109.59
5	3-M	159	CYS	N-CA-C	-7.22	97.63	109.40
6	1-K	796	THR	CA-C-N	7.22	130.54	120.29
6	1-K	796	THR	C-N-CA	7.22	130.54	120.29
6	2-K	796	THR	CA-C-N	7.22	130.54	120.29
6	2-K	796	THR	C-N-CA	7.22	130.54	120.29
6	3-K	796	THR	CA-C-N	7.22	130.54	120.29
6	3-K	796	THR	C-N-CA	7.22	130.54	120.29
6	1-K	844	SER	N-CA-C	-7.22	96.50	108.34
6	2-K	844	SER	N-CA-C	-7.22	96.50	108.34
6	3-K	844	SER	N-CA-C	-7.22	96.50	108.34
6	1-K	851	THR	N-CA-C	-7.21	101.22	110.53
5	1-M	26	ASP	N-CA-C	-7.21	100.33	110.50
6	2-K	851	THR	N-CA-C	-7.21	101.22	110.53
5	2-M	26	ASP	N-CA-C	-7.21	100.33	110.50
6	3-K	851	THR	N-CA-C	-7.21	101.22	110.53
5	3-M	26	ASP	N-CA-C	-7.21	100.33	110.50
6	1-G	529	THR	CA-C-N	7.21	130.53	120.29
6	1-G	529	THR	C-N-CA	7.21	130.53	120.29
6	2-G	529	THR	CA-C-N	7.21	130.53	120.29
6	2-G	529	THR	C-N-CA	7.21	130.53	120.29
4	1-D	98	GLU	N-CA-C	-7.21	95.44	110.80
4	2-D	98	GLU	N-CA-C	-7.21	95.44	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-D	98	GLU	N-CA-C	-7.21	95.44	110.80
2	1-B	414	ALA	CA-C-O	-7.21	112.85	120.63
3	1-C	397	ALA	N-CA-C	-7.21	97.50	108.67
3	2-C	397	ALA	N-CA-C	-7.21	97.50	108.67
2	3-B	414	ALA	CA-C-O	-7.21	112.85	120.63
3	3-C	397	ALA	N-CA-C	-7.21	97.50	108.67
3	1-C	56	CYS	N-CA-C	-7.20	97.72	107.88
3	2-C	56	CYS	N-CA-C	-7.20	97.72	107.88
3	3-C	56	CYS	N-CA-C	-7.20	97.72	107.88
1	1-A	548	HIS	N-CA-C	-7.19	98.14	109.50
1	2-A	548	HIS	N-CA-C	-7.19	98.14	109.50
6	2-G	851	THR	N-CA-C	-7.19	101.25	110.53
1	3-A	548	HIS	N-CA-C	-7.19	98.14	109.50
6	3-G	851	THR	N-CA-C	-7.19	101.25	110.53
6	1-K	263	HIS	CA-C-N	7.18	129.90	120.28
6	1-K	263	HIS	C-N-CA	7.18	129.90	120.28
6	2-K	263	HIS	CA-C-N	7.18	129.90	120.28
6	2-K	263	HIS	C-N-CA	7.18	129.90	120.28
6	1-G	80	ASN	N-CA-C	-7.17	103.84	112.59
6	2-G	80	ASN	N-CA-C	-7.17	103.84	112.59
6	1-K	859	ARG	N-CA-C	-7.17	98.11	109.23
6	2-K	859	ARG	N-CA-C	-7.17	98.11	109.23
6	3-K	859	ARG	N-CA-C	-7.17	98.11	109.23
5	2-R	25	LEU	N-CA-C	7.16	119.81	110.43
2	2-B	821	ASP	CA-C-N	7.16	132.52	123.14
2	2-B	821	ASP	C-N-CA	7.16	132.52	123.14
2	3-B	821	ASP	CA-C-N	7.16	132.52	123.14
2	3-B	821	ASP	C-N-CA	7.16	132.52	123.14
6	1-G	838	HIS	CA-C-O	7.16	128.75	120.80
7	1-L	127	GLU	N-CA-C	7.16	119.16	111.36
6	2-G	838	HIS	CA-C-O	7.16	128.75	120.80
7	2-L	127	GLU	N-CA-C	7.16	119.16	111.36
6	3-G	838	HIS	CA-C-O	7.16	128.75	120.80
7	3-L	127	GLU	N-CA-C	7.16	119.16	111.36
6	2-G	859	ARG	N-CA-C	-7.16	98.14	109.23
6	3-G	859	ARG	N-CA-C	-7.16	98.14	109.23
3	1-C	774	ARG	N-CA-C	-7.15	103.49	111.28
3	2-C	774	ARG	N-CA-C	-7.15	103.49	111.28
3	3-C	774	ARG	N-CA-C	-7.15	103.49	111.28
6	1-G	431	SER	N-CA-C	-7.14	103.01	112.72
5	1-R	93	ASP	N-CA-C	7.14	119.91	108.41
6	2-G	431	SER	N-CA-C	-7.14	103.01	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-R	93	ASP	N-CA-C	7.14	119.91	108.41
5	3-R	93	ASP	N-CA-C	7.14	119.91	108.41
1	2-A	395	THR	CA-C-N	7.13	124.73	120.24
1	2-A	395	THR	C-N-CA	7.13	124.73	120.24
1	3-A	395	THR	CA-C-N	7.13	124.73	120.24
1	3-A	395	THR	C-N-CA	7.13	124.73	120.24
5	1-M	64	THR	N-CA-C	7.13	120.35	108.73
5	2-M	64	THR	N-CA-C	7.13	120.35	108.73
5	3-M	64	THR	N-CA-C	7.13	120.35	108.73
4	1-D	233	LYS	CA-C-N	7.12	129.70	120.44
4	1-D	233	LYS	C-N-CA	7.12	129.70	120.44
4	2-D	233	LYS	CA-C-N	7.12	129.70	120.44
4	2-D	233	LYS	C-N-CA	7.12	129.70	120.44
4	3-D	233	LYS	CA-C-N	7.12	129.70	120.44
4	3-D	233	LYS	C-N-CA	7.12	129.70	120.44
4	2-D	383	SER	CA-C-N	-7.11	113.60	122.84
4	2-D	383	SER	C-N-CA	-7.11	113.60	122.84
6	1-K	704	GLY	N-CA-C	-7.11	97.33	110.97
6	2-K	704	GLY	N-CA-C	-7.11	97.33	110.97
6	3-K	704	GLY	N-CA-C	-7.11	97.33	110.97
6	1-G	704	GLY	N-CA-C	-7.10	97.33	110.97
6	2-G	704	GLY	N-CA-C	-7.10	97.33	110.97
3	1-C	507	GLU	N-CA-C	-7.10	103.62	111.36
3	2-C	507	GLU	N-CA-C	-7.10	103.62	111.36
3	3-C	507	GLU	N-CA-C	-7.10	103.62	111.36
1	3-A	766	GLY	N-CA-C	-7.09	96.39	113.18
3	1-C	686	ALA	CA-C-N	7.08	129.77	120.28
3	1-C	686	ALA	C-N-CA	7.08	129.77	120.28
6	1-K	768	MET	N-CA-C	-7.08	98.31	109.50
2	2-B	853	ALA	CA-C-N	7.08	131.07	120.31
2	2-B	853	ALA	C-N-CA	7.08	131.07	120.31
3	2-C	686	ALA	CA-C-N	7.08	129.77	120.28
3	2-C	686	ALA	C-N-CA	7.08	129.77	120.28
6	2-K	177	TRP	N-CA-C	7.08	121.62	113.19
6	2-K	768	MET	N-CA-C	-7.08	98.31	109.50
2	3-B	853	ALA	CA-C-N	7.08	131.07	120.31
2	3-B	853	ALA	C-N-CA	7.08	131.07	120.31
3	3-C	686	ALA	CA-C-N	7.08	129.77	120.28
3	3-C	686	ALA	C-N-CA	7.08	129.77	120.28
3	1-C	693	ALA	CA-C-N	7.08	132.19	122.07
3	1-C	693	ALA	C-N-CA	7.08	132.19	122.07
3	2-C	693	ALA	CA-C-N	7.08	132.19	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	693	ALA	C-N-CA	7.08	132.19	122.07
3	3-C	693	ALA	CA-C-N	7.08	132.19	122.07
3	3-C	693	ALA	C-N-CA	7.08	132.19	122.07
6	1-G	768	MET	N-CA-C	-7.08	98.32	109.50
6	2-G	768	MET	N-CA-C	-7.08	98.32	109.50
6	1-G	670	ASN	N-CA-C	-7.07	104.62	113.18
6	2-G	670	ASN	N-CA-C	-7.07	104.62	113.18
1	1-A	570	VAL	O-C-N	-7.07	114.91	122.83
1	2-A	570	VAL	O-C-N	-7.07	114.91	122.83
1	3-A	570	VAL	O-C-N	-7.07	114.91	122.83
1	2-A	31	GLY	N-CA-C	-7.07	105.32	115.64
1	3-A	31	GLY	N-CA-C	-7.07	105.32	115.64
6	1-G	132	THR	N-CA-C	7.07	125.85	110.80
6	1-G	242	GLU	N-CA-C	-7.07	104.81	113.50
6	1-K	248	ASP	CA-C-N	-7.07	111.02	119.78
6	1-K	248	ASP	C-N-CA	-7.07	111.02	119.78
6	2-G	132	THR	N-CA-C	7.07	125.85	110.80
6	2-G	242	GLU	N-CA-C	-7.07	104.81	113.50
6	2-K	248	ASP	CA-C-N	-7.07	111.02	119.78
6	2-K	248	ASP	C-N-CA	-7.07	111.02	119.78
1	1-A	724	GLU	N-CA-C	-7.06	103.52	111.07
2	1-B	251	HIS	N-CA-C	-7.06	103.67	111.36
1	2-A	724	GLU	N-CA-C	-7.06	103.52	111.07
2	2-B	251	HIS	N-CA-C	-7.06	103.67	111.36
1	3-A	724	GLU	N-CA-C	-7.06	103.52	111.07
2	3-B	251	HIS	N-CA-C	-7.06	103.67	111.36
3	1-C	365	ARG	N-CA-C	7.05	125.83	110.80
3	2-C	293	GLY	N-CA-C	-7.05	100.77	111.42
3	3-C	293	GLY	N-CA-C	-7.05	100.77	111.42
3	3-C	365	ARG	N-CA-C	7.05	125.83	110.80
2	1-B	249	VAL	N-CA-C	7.05	117.81	110.62
6	1-K	670	ASN	N-CA-C	-7.05	104.65	113.18
2	2-B	249	VAL	N-CA-C	7.05	117.81	110.62
6	2-K	670	ASN	N-CA-C	-7.05	104.65	113.18
2	3-B	249	VAL	N-CA-C	7.05	117.81	110.62
1	1-A	568	ILE	N-CA-C	-7.04	97.53	108.44
1	2-A	568	ILE	N-CA-C	-7.04	97.53	108.44
1	3-A	568	ILE	N-CA-C	-7.04	97.53	108.44
7	1-L	29	LYS	N-CA-C	-7.04	96.24	108.69
7	2-L	29	LYS	N-CA-C	-7.04	96.24	108.69
7	3-L	29	LYS	N-CA-C	-7.04	96.24	108.69
6	1-G	116	LYS	N-CA-C	7.03	125.78	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	116	LYS	N-CA-C	7.03	125.78	110.80
2	2-B	806	VAL	N-CA-C	7.03	123.97	109.34
2	3-B	806	VAL	N-CA-C	7.03	123.97	109.34
2	1-B	479	GLU	N-CA-C	7.03	118.59	111.07
2	3-B	479	GLU	N-CA-C	7.03	118.59	111.07
6	1-G	721	ALA	N-CA-C	-7.02	97.77	109.07
6	2-G	721	ALA	N-CA-C	-7.02	97.77	109.07
7	1-Z	15	ALA	N-CA-C	-7.01	97.62	108.42
7	2-Z	15	ALA	N-CA-C	-7.01	97.62	108.42
7	3-Z	15	ALA	N-CA-C	-7.01	97.62	108.42
6	1-G	706	CYS	N-CA-C	-7.01	98.66	109.24
6	2-G	706	CYS	N-CA-C	-7.01	98.66	109.24
1	2-A	383	ALA	CA-C-N	7.01	134.92	121.54
1	2-A	383	ALA	C-N-CA	7.01	134.92	121.54
1	3-A	383	ALA	CA-C-N	7.01	134.92	121.54
1	3-A	383	ALA	C-N-CA	7.01	134.92	121.54
5	1-F	40	GLY	N-CA-C	-7.01	106.35	114.69
5	2-F	40	GLY	N-CA-C	-7.01	106.35	114.69
3	1-C	698	GLY	CA-C-N	7.00	129.67	120.28
3	1-C	698	GLY	C-N-CA	7.00	129.67	120.28
1	2-A	391	TYR	N-CA-C	-7.00	97.54	109.24
3	2-C	698	GLY	CA-C-N	7.00	129.67	120.28
3	2-C	698	GLY	C-N-CA	7.00	129.67	120.28
1	3-A	391	TYR	N-CA-C	-7.00	97.54	109.24
3	3-C	698	GLY	CA-C-N	7.00	129.67	120.28
3	3-C	698	GLY	C-N-CA	7.00	129.67	120.28
3	1-C	213	ILE	CA-C-N	-7.00	111.38	122.73
3	1-C	213	ILE	C-N-CA	-7.00	111.38	122.73
3	1-C	540	VAL	N-CA-C	-7.00	105.90	112.83
6	1-K	721	ALA	N-CA-C	-7.00	97.80	109.07
7	1-L	136	GLU	N-CA-C	7.00	119.77	110.53
3	2-C	213	ILE	CA-C-N	-7.00	111.38	122.73
3	2-C	213	ILE	C-N-CA	-7.00	111.38	122.73
3	2-C	540	VAL	N-CA-C	-7.00	105.90	112.83
6	2-K	721	ALA	N-CA-C	-7.00	97.80	109.07
7	2-L	136	GLU	N-CA-C	7.00	119.77	110.53
3	3-C	540	VAL	N-CA-C	-7.00	105.90	112.83
6	3-K	721	ALA	N-CA-C	-7.00	97.80	109.07
7	3-L	136	GLU	N-CA-C	7.00	119.77	110.53
6	1-K	846	LEU	N-CA-C	-7.00	97.84	109.24
6	2-K	846	LEU	N-CA-C	-7.00	97.84	109.24
6	3-K	846	LEU	N-CA-C	-7.00	97.84	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-B	763	GLN	CA-C-N	6.99	134.89	121.54
2	2-B	763	GLN	C-N-CA	6.99	134.89	121.54
2	3-B	763	GLN	CA-C-N	6.99	134.89	121.54
2	3-B	763	GLN	C-N-CA	6.99	134.89	121.54
6	1-K	706	CYS	N-CA-C	-6.99	98.69	109.24
6	2-K	706	CYS	N-CA-C	-6.99	98.69	109.24
6	3-K	706	CYS	N-CA-C	-6.99	98.69	109.24
2	1-B	526	VAL	CA-C-N	6.99	129.64	120.28
2	1-B	526	VAL	C-N-CA	6.99	129.64	120.28
2	3-B	526	VAL	CA-C-N	6.99	129.64	120.28
2	3-B	526	VAL	C-N-CA	6.99	129.64	120.28
6	1-K	258	CYS	CA-C-N	6.99	129.52	120.44
6	1-K	258	CYS	C-N-CA	6.99	129.52	120.44
6	2-K	258	CYS	CA-C-N	6.99	129.52	120.44
6	2-K	258	CYS	C-N-CA	6.99	129.52	120.44
5	1-F	154	PHE	N-CA-C	-6.98	99.60	110.42
5	2-F	154	PHE	N-CA-C	-6.98	99.60	110.42
6	1-G	846	LEU	N-CA-C	-6.98	97.86	109.24
6	2-G	846	LEU	N-CA-C	-6.98	97.86	109.24
6	3-G	846	LEU	N-CA-C	-6.98	97.86	109.24
1	2-A	444	ILE	N-CA-C	-6.98	96.47	107.15
1	3-A	444	ILE	N-CA-C	-6.98	96.47	107.15
6	2-K	210	ALA	CA-C-N	6.97	130.01	120.46
6	2-K	210	ALA	C-N-CA	6.97	130.01	120.46
3	1-C	788	LEU	N-CA-C	6.97	121.02	108.48
1	2-A	428	VAL	N-CA-C	-6.97	97.50	108.86
3	2-C	788	LEU	N-CA-C	6.97	121.02	108.48
1	3-A	428	VAL	N-CA-C	-6.97	97.50	108.86
3	3-C	788	LEU	N-CA-C	6.97	121.02	108.48
6	2-G	794	ILE	N-CA-C	-6.97	99.16	108.35
2	2-B	742	TYR	N-CA-C	-6.96	97.62	109.24
2	3-B	742	TYR	N-CA-C	-6.96	97.62	109.24
1	2-A	340	PHE	CA-C-N	6.96	134.83	121.54
1	2-A	340	PHE	C-N-CA	6.96	134.83	121.54
1	3-A	340	PHE	CA-C-N	6.96	134.83	121.54
1	3-A	340	PHE	C-N-CA	6.96	134.83	121.54
2	2-B	819	VAL	CA-C-N	6.95	133.99	122.73
2	2-B	819	VAL	C-N-CA	6.95	133.99	122.73
2	3-B	819	VAL	CA-C-N	6.95	133.99	122.73
2	3-B	819	VAL	C-N-CA	6.95	133.99	122.73
1	2-A	178	GLU	N-CA-C	-6.95	99.16	108.74
1	3-A	178	GLU	N-CA-C	-6.95	99.16	108.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	546	TYR	CA-C-N	6.94	133.32	122.70
3	1-C	546	TYR	C-N-CA	6.94	133.32	122.70
3	2-C	546	TYR	CA-C-N	6.94	133.32	122.70
3	2-C	546	TYR	C-N-CA	6.94	133.32	122.70
3	3-C	546	TYR	CA-C-N	6.94	133.32	122.70
3	3-C	546	TYR	C-N-CA	6.94	133.32	122.70
6	1-G	240	LEU	N-CA-C	6.94	119.69	111.71
6	2-G	240	LEU	N-CA-C	6.94	119.69	111.71
6	1-K	794	ILE	N-CA-C	-6.94	99.19	108.35
6	2-K	794	ILE	N-CA-C	-6.94	99.19	108.35
6	3-K	794	ILE	N-CA-C	-6.94	99.19	108.35
2	1-B	428	ASN	N-CA-C	6.93	118.92	111.36
2	2-B	428	ASN	N-CA-C	6.93	118.92	111.36
2	3-B	428	ASN	N-CA-C	6.93	118.92	111.36
7	2-Z	65	LEU	N-CA-C	-6.92	98.64	109.72
2	1-B	482	SER	N-CA-C	6.91	125.53	110.80
2	3-B	482	SER	N-CA-C	6.91	125.53	110.80
7	1-L	80	ILE	CA-C-N	6.91	134.96	121.41
7	1-L	80	ILE	C-N-CA	6.91	134.96	121.41
7	2-L	80	ILE	CA-C-N	6.91	134.96	121.41
7	2-L	80	ILE	C-N-CA	6.91	134.96	121.41
7	3-L	80	ILE	CA-C-N	6.91	134.96	121.41
7	3-L	80	ILE	C-N-CA	6.91	134.96	121.41
3	1-C	397	ALA	CA-C-N	6.91	130.46	120.38
3	1-C	397	ALA	C-N-CA	6.91	130.46	120.38
3	2-C	397	ALA	CA-C-N	6.91	130.46	120.38
3	2-C	397	ALA	C-N-CA	6.91	130.46	120.38
3	3-C	397	ALA	CA-C-N	6.91	130.46	120.38
3	3-C	397	ALA	C-N-CA	6.91	130.46	120.38
1	1-A	464	LEU	N-CA-C	-6.90	101.88	112.99
5	1-F	29	GLY	N-CA-C	-6.90	105.35	115.63
1	2-A	464	LEU	N-CA-C	-6.90	101.88	112.99
5	2-F	29	GLY	N-CA-C	-6.90	105.35	115.63
1	3-A	464	LEU	N-CA-C	-6.90	101.88	112.99
3	1-C	377	ILE	CA-C-N	-6.90	111.98	122.81
3	1-C	377	ILE	C-N-CA	-6.90	111.98	122.81
1	2-A	597	PHE	CA-C-N	6.90	129.52	120.28
1	2-A	597	PHE	C-N-CA	6.90	129.52	120.28
1	3-A	597	PHE	CA-C-N	6.90	129.52	120.28
1	3-A	597	PHE	C-N-CA	6.90	129.52	120.28
3	3-C	377	ILE	CA-C-N	-6.90	111.98	122.81
3	3-C	377	ILE	C-N-CA	-6.90	111.98	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-B	828	ASP	N-CA-C	-6.89	96.12	110.80
2	3-B	828	ASP	N-CA-C	-6.89	96.12	110.80
1	2-A	76	LYS	N-CA-C	-6.89	98.62	109.50
1	3-A	76	LYS	N-CA-C	-6.89	98.62	109.50
3	1-C	593	GLU	CA-C-N	6.89	129.39	120.44
3	1-C	593	GLU	C-N-CA	6.89	129.39	120.44
3	2-C	593	GLU	CA-C-N	6.89	129.39	120.44
3	2-C	593	GLU	C-N-CA	6.89	129.39	120.44
3	3-C	593	GLU	CA-C-N	6.89	129.39	120.44
3	3-C	593	GLU	C-N-CA	6.89	129.39	120.44
3	1-C	535	ILE	N-CA-C	-6.88	98.52	108.36
3	2-C	535	ILE	N-CA-C	-6.88	98.52	108.36
3	3-C	535	ILE	N-CA-C	-6.88	98.52	108.36
2	1-B	407	VAL	N-CA-C	-6.88	103.81	110.42
3	1-C	89	LEU	N-CA-C	-6.88	96.15	110.80
3	2-C	89	LEU	N-CA-C	-6.88	96.15	110.80
2	3-B	407	VAL	N-CA-C	-6.88	103.81	110.42
3	3-C	89	LEU	N-CA-C	-6.88	96.15	110.80
2	3-B	63	MET	CA-C-N	6.88	130.19	120.42
2	3-B	63	MET	C-N-CA	6.88	130.19	120.42
5	1-M	147	SER	N-CA-C	-6.87	104.86	113.18
5	2-M	147	SER	N-CA-C	-6.87	104.86	113.18
5	3-M	147	SER	N-CA-C	-6.87	104.86	113.18
3	1-C	213	ILE	CA-C-O	-6.87	112.89	120.72
3	2-C	213	ILE	CA-C-O	-6.87	112.89	120.72
6	1-G	539	GLN	N-CA-C	-6.87	99.72	109.96
6	2-G	539	GLN	N-CA-C	-6.87	99.72	109.96
2	1-B	250	CYS	N-CA-C	6.86	119.60	111.71
7	1-L	37	SER	CA-C-N	6.86	130.17	120.42
7	1-L	37	SER	C-N-CA	6.86	130.17	120.42
2	2-B	250	CYS	N-CA-C	6.86	119.60	111.71
7	2-L	37	SER	CA-C-N	6.86	130.17	120.42
7	2-L	37	SER	C-N-CA	6.86	130.17	120.42
2	3-B	250	CYS	N-CA-C	6.86	119.60	111.71
7	3-L	37	SER	CA-C-N	6.86	130.17	120.42
7	3-L	37	SER	C-N-CA	6.86	130.17	120.42
5	1-F	26	ASP	N-CA-C	6.86	121.40	112.89
1	2-A	312	GLY	N-CA-C	-6.86	106.15	114.66
5	2-F	26	ASP	N-CA-C	6.86	121.40	112.89
1	3-A	312	GLY	N-CA-C	-6.86	106.15	114.66
6	1-K	865	PRO	N-CA-C	6.86	122.91	113.65
6	2-G	865	PRO	N-CA-C	6.86	122.91	113.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	865	PRO	N-CA-C	6.86	122.91	113.65
6	3-G	865	PRO	N-CA-C	6.86	122.91	113.65
6	3-K	865	PRO	N-CA-C	6.86	122.91	113.65
5	1-R	91	VAL	CA-C-N	6.85	132.46	122.94
5	1-R	91	VAL	C-N-CA	6.85	132.46	122.94
5	2-R	91	VAL	CA-C-N	6.85	132.46	122.94
5	2-R	91	VAL	C-N-CA	6.85	132.46	122.94
7	2-Z	139	PRO	N-CA-C	6.85	122.54	113.57
3	1-C	9	ARG	N-CA-C	-6.84	95.94	107.99
3	2-C	9	ARG	N-CA-C	-6.84	95.94	107.99
3	3-C	9	ARG	N-CA-C	-6.84	95.94	107.99
6	1-G	23	GLU	CA-C-N	6.84	130.00	120.29
6	1-G	23	GLU	C-N-CA	6.84	130.00	120.29
6	2-G	23	GLU	CA-C-N	6.84	130.00	120.29
6	2-G	23	GLU	C-N-CA	6.84	130.00	120.29
6	3-G	23	GLU	CA-C-N	6.84	130.00	120.29
6	3-G	23	GLU	C-N-CA	6.84	130.00	120.29
3	1-C	246	THR	N-CA-C	-6.83	98.72	109.50
3	1-C	795	GLU	N-CA-C	-6.83	98.94	109.52
6	1-G	703	PRO	CA-C-N	6.83	133.00	121.47
6	1-G	703	PRO	C-N-CA	6.83	133.00	121.47
3	2-C	246	THR	N-CA-C	-6.83	98.72	109.50
3	2-C	795	GLU	N-CA-C	-6.83	98.94	109.52
6	2-G	703	PRO	CA-C-N	6.83	133.00	121.47
6	2-G	703	PRO	C-N-CA	6.83	133.00	121.47
1	3-A	799	ALA	CA-C-O	-6.83	113.36	120.87
3	3-C	795	GLU	N-CA-C	-6.83	98.94	109.52
3	1-C	474	GLY	CA-C-N	6.82	134.57	121.54
3	1-C	474	GLY	C-N-CA	6.82	134.57	121.54
3	2-C	474	GLY	CA-C-N	6.82	134.57	121.54
3	2-C	474	GLY	C-N-CA	6.82	134.57	121.54
3	3-C	474	GLY	CA-C-N	6.82	134.57	121.54
3	3-C	474	GLY	C-N-CA	6.82	134.57	121.54
3	1-C	747	ARG	N-CA-C	6.82	118.36	111.07
3	2-C	301	ARG	N-CA-C	-6.82	99.88	110.17
3	2-C	747	ARG	N-CA-C	6.82	118.36	111.07
3	3-C	301	ARG	N-CA-C	-6.82	99.88	110.17
3	3-C	747	ARG	N-CA-C	6.82	118.36	111.07
1	3-A	747	ARG	CA-C-N	6.81	129.79	120.46
1	3-A	747	ARG	C-N-CA	6.81	129.79	120.46
5	2-R	25	LEU	CA-C-N	6.81	131.59	121.72
5	2-R	25	LEU	C-N-CA	6.81	131.59	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	394	PHE	N-CA-C	6.81	119.78	109.23
1	2-A	189	LEU	N-CA-C	6.81	119.35	110.43
3	2-C	394	PHE	N-CA-C	6.81	119.78	109.23
1	3-A	189	LEU	N-CA-C	6.81	119.35	110.43
3	3-C	394	PHE	N-CA-C	6.81	119.78	109.23
3	1-C	509	GLY	N-CA-C	-6.80	99.90	112.62
5	1-R	92	VAL	N-CA-C	6.80	118.60	108.46
3	2-C	509	GLY	N-CA-C	-6.80	99.90	112.62
5	2-R	92	VAL	N-CA-C	6.80	118.60	108.46
3	3-C	509	GLY	N-CA-C	-6.80	99.90	112.62
6	1-K	703	PRO	CA-C-N	6.80	132.97	121.47
6	1-K	703	PRO	C-N-CA	6.80	132.97	121.47
6	2-K	703	PRO	CA-C-N	6.80	132.97	121.47
6	2-K	703	PRO	C-N-CA	6.80	132.97	121.47
6	3-K	703	PRO	CA-C-N	6.80	132.97	121.47
6	3-K	703	PRO	C-N-CA	6.80	132.97	121.47
3	1-C	322	VAL	N-CA-C	-6.80	102.52	110.21
3	1-C	383	LEU	N-CA-C	-6.80	102.81	111.92
3	2-C	322	VAL	N-CA-C	-6.80	102.52	110.21
3	2-C	383	LEU	N-CA-C	-6.80	102.81	111.92
3	3-C	322	VAL	N-CA-C	-6.80	102.52	110.21
3	3-C	383	LEU	N-CA-C	-6.80	102.81	111.92
6	1-K	838	HIS	CA-C-O	6.80	128.74	120.92
6	2-K	838	HIS	CA-C-O	6.80	128.74	120.92
6	3-K	838	HIS	CA-C-O	6.80	128.74	120.92
3	1-C	282	GLY	N-CA-C	-6.79	104.93	115.73
3	2-C	282	GLY	N-CA-C	-6.79	104.93	115.73
3	3-C	282	GLY	N-CA-C	-6.79	104.93	115.73
6	1-G	686	ALA	N-CA-C	6.79	125.26	110.80
6	2-G	686	ALA	N-CA-C	6.79	125.26	110.80
1	2-A	370	TYR	N-CA-C	-6.79	100.44	110.48
1	3-A	370	TYR	N-CA-C	-6.79	100.44	110.48
6	1-G	296	CYS	CA-C-N	6.78	134.50	121.54
6	1-G	296	CYS	C-N-CA	6.78	134.50	121.54
6	2-G	296	CYS	CA-C-N	6.78	134.50	121.54
6	2-G	296	CYS	C-N-CA	6.78	134.50	121.54
2	2-B	788	SER	N-CA-C	6.78	121.97	112.75
2	3-B	788	SER	N-CA-C	6.78	121.97	112.75
5	1-R	146	HIS	CA-C-N	6.78	134.48	121.54
5	1-R	146	HIS	C-N-CA	6.78	134.48	121.54
6	1-K	686	ALA	N-CA-C	6.78	125.23	110.80
5	2-R	146	HIS	CA-C-N	6.78	134.48	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-R	146	HIS	C-N-CA	6.78	134.48	121.54
6	2-K	686	ALA	N-CA-C	6.78	125.23	110.80
5	3-R	146	HIS	CA-C-N	6.78	134.48	121.54
5	3-R	146	HIS	C-N-CA	6.78	134.48	121.54
2	1-B	259	ARG	N-CA-C	-6.77	103.90	111.28
3	1-C	323	GLN	CA-C-N	6.77	131.44	120.60
3	1-C	323	GLN	C-N-CA	6.77	131.44	120.60
2	2-B	259	ARG	N-CA-C	-6.77	103.90	111.28
3	2-C	323	GLN	CA-C-N	6.77	131.44	120.60
3	2-C	323	GLN	C-N-CA	6.77	131.44	120.60
2	3-B	259	ARG	N-CA-C	-6.77	103.90	111.28
3	3-C	323	GLN	CA-C-N	6.77	131.44	120.60
3	3-C	323	GLN	C-N-CA	6.77	131.44	120.60
6	1-G	292	LEU	N-CA-C	6.77	118.31	111.07
6	2-G	292	LEU	N-CA-C	6.77	118.31	111.07
2	2-B	939	THR	N-CA-C	-6.77	96.39	110.80
2	3-B	939	THR	N-CA-C	-6.77	96.39	110.80
5	2-R	46	ILE	CA-C-N	6.77	128.30	119.84
5	2-R	46	ILE	C-N-CA	6.77	128.30	119.84
2	2-B	936	ALA	N-CA-C	-6.76	102.10	112.99
2	3-B	936	ALA	N-CA-C	-6.76	102.10	112.99
2	2-B	757	ASP	N-CA-C	-6.75	98.62	109.96
2	3-B	757	ASP	N-CA-C	-6.75	98.62	109.96
6	2-G	382	ALA	CA-C-N	6.74	129.69	120.46
6	2-G	382	ALA	C-N-CA	6.74	129.69	120.46
6	1-K	834	PHE	CA-C-N	6.74	130.28	120.71
6	1-K	834	PHE	C-N-CA	6.74	130.28	120.71
6	2-K	834	PHE	CA-C-N	6.74	130.28	120.71
6	2-K	834	PHE	C-N-CA	6.74	130.28	120.71
5	2-R	37	LEU	N-CA-C	6.74	118.28	111.07
6	2-G	264	GLU	N-CA-C	6.73	118.61	111.28
6	2-K	220	ARG	N-CA-C	-6.72	98.97	109.25
6	1-G	25	SER	N-CA-C	6.72	118.61	111.28
6	2-G	25	SER	N-CA-C	6.72	118.61	111.28
6	3-G	25	SER	N-CA-C	6.72	118.61	111.28
5	1-F	58	TYR	N-CA-C	6.72	119.41	108.26
5	2-F	58	TYR	N-CA-C	6.72	119.41	108.26
1	2-A	687	HIS	N-CA-C	-6.71	105.00	113.72
1	3-A	687	HIS	N-CA-C	-6.71	105.00	113.72
3	1-C	661	ALA	O-C-N	6.71	128.98	122.07
5	1-F	46	ILE	CA-C-N	6.71	128.22	119.84
5	1-F	46	ILE	C-N-CA	6.71	128.22	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	661	ALA	O-C-N	6.71	128.98	122.07
5	2-F	46	ILE	CA-C-N	6.71	128.22	119.84
5	2-F	46	ILE	C-N-CA	6.71	128.22	119.84
3	3-C	661	ALA	O-C-N	6.71	128.98	122.07
2	1-B	857	GLN	N-CA-C	-6.71	103.97	111.28
2	2-B	857	GLN	N-CA-C	-6.71	103.97	111.28
2	3-B	857	GLN	N-CA-C	-6.71	103.97	111.28
6	1-G	118	ASP	CA-C-O	6.70	127.53	120.42
6	2-G	118	ASP	CA-C-O	6.70	127.53	120.42
5	1-R	171	GLU	N-CA-C	6.70	118.47	111.03
6	1-K	297	SER	N-CA-C	6.70	125.07	110.80
6	2-K	297	SER	N-CA-C	6.70	125.07	110.80
5	3-R	171	GLU	N-CA-C	6.70	118.47	111.03
3	1-C	65	PHE	N-CA-C	-6.70	98.81	109.59
6	1-G	533	ASN	CA-C-N	6.70	129.93	120.42
6	1-G	533	ASN	C-N-CA	6.70	129.93	120.42
3	2-C	65	PHE	N-CA-C	-6.70	98.81	109.59
6	2-G	533	ASN	CA-C-N	6.70	129.93	120.42
6	2-G	533	ASN	C-N-CA	6.70	129.93	120.42
3	3-C	65	PHE	N-CA-C	-6.70	98.81	109.59
6	1-G	542	LEU	CA-C-N	6.69	129.14	120.44
6	1-G	542	LEU	C-N-CA	6.69	129.14	120.44
6	2-G	542	LEU	CA-C-N	6.69	129.14	120.44
6	2-G	542	LEU	C-N-CA	6.69	129.14	120.44
6	1-G	61	LEU	CA-C-N	6.69	126.69	120.34
6	1-G	61	LEU	C-N-CA	6.69	126.69	120.34
6	2-G	61	LEU	CA-C-N	6.69	126.69	120.34
6	2-G	61	LEU	C-N-CA	6.69	126.69	120.34
4	1-D	57	VAL	N-CA-C	-6.69	98.85	108.48
4	2-D	57	VAL	N-CA-C	-6.69	98.85	108.48
4	3-D	57	VAL	N-CA-C	-6.69	98.85	108.48
1	3-A	793	LYS	N-CA-C	6.68	119.17	108.41
2	1-B	323	LEU	CA-C-N	6.68	129.90	120.28
2	1-B	323	LEU	C-N-CA	6.68	129.90	120.28
2	2-B	323	LEU	CA-C-N	6.68	129.90	120.28
2	2-B	323	LEU	C-N-CA	6.68	129.90	120.28
2	3-B	323	LEU	CA-C-N	6.68	129.90	120.28
2	3-B	323	LEU	C-N-CA	6.68	129.90	120.28
6	1-K	283	LYS	N-CA-C	6.68	119.17	111.02
6	2-K	283	LYS	N-CA-C	6.68	119.17	111.02
3	1-C	150	ILE	N-CA-C	-6.67	98.77	108.71
3	2-C	150	ILE	N-CA-C	-6.67	98.77	108.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-C	150	ILE	N-CA-C	-6.67	98.77	108.71
6	1-G	136	MET	N-CA-C	-6.67	104.62	112.89
6	2-G	136	MET	N-CA-C	-6.67	104.62	112.89
6	1-G	54	LEU	N-CA-C	-6.67	104.09	111.36
6	1-G	834	PHE	CA-C-N	6.67	130.18	120.71
6	1-G	834	PHE	C-N-CA	6.67	130.18	120.71
6	2-G	54	LEU	N-CA-C	-6.67	104.09	111.36
6	2-G	834	PHE	CA-C-N	6.67	130.18	120.71
6	2-G	834	PHE	C-N-CA	6.67	130.18	120.71
7	2-Z	140	GLN	N-CA-C	6.67	118.63	111.36
6	3-G	834	PHE	CA-C-N	6.67	130.18	120.71
6	3-G	834	PHE	C-N-CA	6.67	130.18	120.71
1	3-A	760	LEU	CA-C-N	6.66	129.50	120.44
1	3-A	760	LEU	C-N-CA	6.66	129.50	120.44
6	2-K	78	GLN	N-CA-C	-6.65	103.63	113.61
3	1-C	711	MET	N-CA-C	-6.65	104.03	111.28
3	2-C	711	MET	N-CA-C	-6.65	104.03	111.28
3	3-C	711	MET	N-CA-C	-6.65	104.03	111.28
6	1-G	119	ASN	CA-C-N	6.65	129.73	120.29
6	1-G	119	ASN	C-N-CA	6.65	129.73	120.29
6	2-G	119	ASN	CA-C-N	6.65	129.73	120.29
6	2-G	119	ASN	C-N-CA	6.65	129.73	120.29
7	1-Z	18	ILE	CA-C-O	6.64	126.98	120.27
7	2-Z	18	ILE	CA-C-O	6.64	126.98	120.27
7	3-Z	18	ILE	CA-C-O	6.64	126.98	120.27
3	1-C	650	GLN	CA-C-N	6.63	129.71	120.29
3	1-C	650	GLN	C-N-CA	6.63	129.71	120.29
3	2-C	650	GLN	CA-C-N	6.63	129.71	120.29
3	2-C	650	GLN	C-N-CA	6.63	129.71	120.29
3	3-C	650	GLN	CA-C-N	6.63	129.71	120.29
3	3-C	650	GLN	C-N-CA	6.63	129.71	120.29
6	1-G	812	PRO	CA-C-O	-6.63	113.35	121.31
6	2-G	812	PRO	CA-C-O	-6.63	113.35	121.31
6	3-G	812	PRO	CA-C-O	-6.63	113.35	121.31
3	1-C	111	GLN	CA-C-N	6.63	128.12	119.84
3	1-C	111	GLN	C-N-CA	6.63	128.12	119.84
6	1-G	700	TYR	N-CA-C	6.63	119.90	109.96
1	2-A	25	LEU	N-CA-C	-6.63	98.92	109.59
2	2-B	917	GLY	N-CA-C	6.63	124.17	115.36
3	2-C	111	GLN	CA-C-N	6.63	128.12	119.84
3	2-C	111	GLN	C-N-CA	6.63	128.12	119.84
6	2-G	700	TYR	N-CA-C	6.63	119.90	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	25	LEU	N-CA-C	-6.63	98.92	109.59
2	3-B	917	GLY	N-CA-C	6.63	124.17	115.36
3	3-C	111	GLN	CA-C-N	6.63	128.12	119.84
3	3-C	111	GLN	C-N-CA	6.63	128.12	119.84
6	1-K	740	GLY	N-CA-C	6.62	123.19	111.73
6	2-K	740	GLY	N-CA-C	6.62	123.19	111.73
6	3-K	740	GLY	N-CA-C	6.62	123.19	111.73
1	2-A	96	ILE	N-CA-C	6.61	117.36	107.51
1	3-A	96	ILE	N-CA-C	6.61	117.36	107.51
6	1-G	740	GLY	N-CA-C	6.61	123.16	111.73
6	2-G	740	GLY	N-CA-C	6.61	123.16	111.73
6	2-G	871	ALA	CA-C-N	6.61	129.13	120.28
6	2-G	871	ALA	C-N-CA	6.61	129.13	120.28
6	3-G	871	ALA	CA-C-N	6.61	129.13	120.28
6	3-G	871	ALA	C-N-CA	6.61	129.13	120.28
6	1-G	250	PRO	CA-C-N	6.61	129.03	120.44
6	1-G	250	PRO	C-N-CA	6.61	129.03	120.44
6	2-G	250	PRO	CA-C-N	6.61	129.03	120.44
6	2-G	250	PRO	C-N-CA	6.61	129.03	120.44
1	2-A	28	LEU	N-CA-C	-6.60	99.91	110.14
1	3-A	28	LEU	N-CA-C	-6.60	99.91	110.14
6	1-K	871	ALA	CA-C-N	6.60	129.12	120.28
6	1-K	871	ALA	C-N-CA	6.60	129.12	120.28
6	2-K	871	ALA	CA-C-N	6.60	129.12	120.28
6	2-K	871	ALA	C-N-CA	6.60	129.12	120.28
6	3-K	871	ALA	CA-C-N	6.60	129.12	120.28
6	3-K	871	ALA	C-N-CA	6.60	129.12	120.28
6	1-G	247	ARG	N-CA-C	-6.60	104.95	112.87
6	2-G	247	ARG	N-CA-C	-6.60	104.95	112.87
5	2-R	42	VAL	N-CA-C	6.60	123.07	109.34
6	2-K	150	ASP	CA-C-N	6.60	134.14	121.54
6	2-K	150	ASP	C-N-CA	6.60	134.14	121.54
6	1-K	756	LEU	N-CA-C	-6.59	98.66	109.40
6	1-K	812	PRO	CA-C-O	-6.59	113.41	121.31
6	2-K	756	LEU	N-CA-C	-6.59	98.66	109.40
6	2-K	812	PRO	CA-C-O	-6.59	113.41	121.31
6	3-K	812	PRO	CA-C-O	-6.59	113.41	121.31
3	1-C	715	LEU	CA-C-N	6.58	129.10	120.28
3	1-C	715	LEU	C-N-CA	6.58	129.10	120.28
7	1-L	62	LEU	CA-C-N	6.58	134.12	121.54
7	1-L	62	LEU	C-N-CA	6.58	134.12	121.54
3	2-C	715	LEU	CA-C-N	6.58	129.10	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	715	LEU	C-N-CA	6.58	129.10	120.28
7	2-L	62	LEU	CA-C-N	6.58	134.12	121.54
7	2-L	62	LEU	C-N-CA	6.58	134.12	121.54
3	3-C	715	LEU	CA-C-N	6.58	129.10	120.28
3	3-C	715	LEU	C-N-CA	6.58	129.10	120.28
7	3-L	62	LEU	CA-C-N	6.58	134.12	121.54
7	3-L	62	LEU	C-N-CA	6.58	134.12	121.54
5	1-F	45	THR	N-CA-C	-6.58	98.73	108.79
5	2-F	45	THR	N-CA-C	-6.58	98.73	108.79
2	1-B	524	GLY	CA-C-N	6.58	126.81	119.32
2	1-B	524	GLY	C-N-CA	6.58	126.81	119.32
2	1-B	863	GLU	CA-C-N	6.58	129.09	120.28
2	1-B	863	GLU	C-N-CA	6.58	129.09	120.28
2	2-B	863	GLU	CA-C-N	6.58	129.09	120.28
2	2-B	863	GLU	C-N-CA	6.58	129.09	120.28
2	3-B	524	GLY	CA-C-N	6.58	126.81	119.32
2	3-B	524	GLY	C-N-CA	6.58	126.81	119.32
2	3-B	863	GLU	CA-C-N	6.58	129.09	120.28
2	3-B	863	GLU	C-N-CA	6.58	129.09	120.28
2	2-B	753	ASP	CA-C-O	6.57	127.59	120.43
2	3-B	753	ASP	CA-C-O	6.57	127.59	120.43
6	1-G	756	LEU	N-CA-C	-6.57	98.70	109.40
6	2-G	756	LEU	N-CA-C	-6.57	98.70	109.40
3	1-C	736	GLY	N-CA-C	-6.56	97.63	113.18
3	2-C	736	GLY	N-CA-C	-6.56	97.63	113.18
3	3-C	736	GLY	N-CA-C	-6.56	97.63	113.18
5	1-R	155	ILE	N-CA-C	-6.56	98.99	108.17
5	2-R	155	ILE	N-CA-C	-6.56	98.99	108.17
5	3-R	155	ILE	N-CA-C	-6.56	98.99	108.17
2	2-B	755	VAL	N-CA-C	-6.56	98.19	108.81
2	3-B	755	VAL	N-CA-C	-6.56	98.19	108.81
5	2-R	41	GLU	N-CA-C	-6.56	100.58	110.28
3	1-C	426	PRO	N-CA-C	-6.55	102.04	111.22
3	2-C	426	PRO	N-CA-C	-6.55	102.04	111.22
3	3-C	426	PRO	N-CA-C	-6.55	102.04	111.22
6	2-G	263	HIS	CA-C-N	6.55	129.06	120.28
6	2-G	263	HIS	C-N-CA	6.55	129.06	120.28
4	1-D	83	LEU	CA-C-N	6.55	129.06	120.28
4	1-D	83	LEU	C-N-CA	6.55	129.06	120.28
4	2-D	83	LEU	CA-C-N	6.55	129.06	120.28
4	2-D	83	LEU	C-N-CA	6.55	129.06	120.28
6	2-K	168	LYS	N-CA-C	-6.55	103.83	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-D	83	LEU	CA-C-N	6.55	129.06	120.28
4	3-D	83	LEU	C-N-CA	6.55	129.06	120.28
3	1-C	335	ILE	CA-C-N	6.55	130.64	120.75
3	1-C	335	ILE	C-N-CA	6.55	130.64	120.75
3	2-C	335	ILE	CA-C-N	6.55	130.64	120.75
3	2-C	335	ILE	C-N-CA	6.55	130.64	120.75
3	3-C	335	ILE	CA-C-N	6.55	130.64	120.75
3	3-C	335	ILE	C-N-CA	6.55	130.64	120.75
1	2-A	273	ILE	O-C-N	-6.55	116.19	123.26
1	3-A	273	ILE	O-C-N	-6.55	116.19	123.26
3	1-C	697	GLY	N-CA-C	6.54	120.09	112.50
6	1-G	318	HIS	N-CA-C	6.54	121.65	112.75
3	2-C	697	GLY	N-CA-C	6.54	120.09	112.50
4	2-D	385	SER	N-CA-C	-6.54	102.36	110.41
6	2-G	318	HIS	N-CA-C	6.54	121.65	112.75
3	3-C	697	GLY	N-CA-C	6.54	120.09	112.50
3	2-C	803	GLU	N-CA-C	6.54	124.73	110.80
6	1-G	494	ALA	CA-C-N	6.54	129.04	120.28
6	1-G	494	ALA	C-N-CA	6.54	129.04	120.28
3	2-C	802	LYS	N-CA-C	6.54	124.72	110.80
6	2-G	494	ALA	CA-C-N	6.54	129.04	120.28
6	2-G	494	ALA	C-N-CA	6.54	129.04	120.28
1	2-A	71	ASP	CA-C-N	6.53	128.93	120.44
1	2-A	71	ASP	C-N-CA	6.53	128.93	120.44
1	2-A	595	THR	CA-C-N	6.53	129.68	120.28
1	2-A	595	THR	C-N-CA	6.53	129.68	120.28
1	3-A	595	THR	CA-C-N	6.53	129.68	120.28
1	3-A	595	THR	C-N-CA	6.53	129.68	120.28
3	1-C	724	LYS	N-CA-C	-6.53	98.34	109.24
3	2-C	724	LYS	N-CA-C	-6.53	98.34	109.24
3	3-C	724	LYS	N-CA-C	-6.53	98.34	109.24
3	1-C	419	LYS	N-CA-C	-6.52	98.34	109.24
3	2-C	419	LYS	N-CA-C	-6.52	98.34	109.24
3	3-C	419	LYS	N-CA-C	-6.52	98.34	109.24
3	1-C	640	ASP	O-C-N	-6.52	117.28	121.85
3	2-C	640	ASP	O-C-N	-6.52	117.28	121.85
3	3-C	640	ASP	O-C-N	-6.52	117.28	121.85
3	1-C	411	ILE	N-CA-C	-6.52	95.78	109.34
3	2-C	411	ILE	N-CA-C	-6.52	95.78	109.34
3	3-C	411	ILE	N-CA-C	-6.52	95.78	109.34
3	1-C	708	ASN	CA-C-N	6.52	129.01	120.28
3	1-C	708	ASN	C-N-CA	6.52	129.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	1-L	110	GLU	CA-C-N	6.52	129.01	120.28
7	1-L	110	GLU	C-N-CA	6.52	129.01	120.28
3	2-C	708	ASN	CA-C-N	6.52	129.01	120.28
3	2-C	708	ASN	C-N-CA	6.52	129.01	120.28
7	2-L	110	GLU	CA-C-N	6.52	129.01	120.28
7	2-L	110	GLU	C-N-CA	6.52	129.01	120.28
3	3-C	708	ASN	CA-C-N	6.52	129.01	120.28
3	3-C	708	ASN	C-N-CA	6.52	129.01	120.28
7	3-L	110	GLU	CA-C-N	6.52	129.01	120.28
7	3-L	110	GLU	C-N-CA	6.52	129.01	120.28
6	2-K	220	ARG	CA-C-N	6.52	133.99	121.54
6	2-K	220	ARG	C-N-CA	6.52	133.99	121.54
3	1-C	185	GLU	N-CA-C	-6.51	103.94	112.41
3	2-C	185	GLU	N-CA-C	-6.51	103.94	112.41
3	3-C	185	GLU	N-CA-C	-6.51	103.94	112.41
5	1-F	82	TYR	N-CA-C	-6.51	98.61	108.96
5	2-F	82	TYR	N-CA-C	-6.51	98.61	108.96
6	2-G	785	LYS	N-CA-C	-6.51	99.41	109.24
1	2-A	144	HIS	CA-C-N	6.50	127.97	119.84
1	2-A	144	HIS	C-N-CA	6.50	127.97	119.84
1	3-A	144	HIS	CA-C-N	6.50	127.97	119.84
1	3-A	144	HIS	C-N-CA	6.50	127.97	119.84
6	1-G	217	LYS	N-CA-C	-6.50	104.04	112.68
6	2-G	217	LYS	N-CA-C	-6.50	104.04	112.68
6	3-G	217	LYS	N-CA-C	-6.50	104.04	112.68
6	1-K	785	LYS	N-CA-C	-6.50	99.43	109.24
6	2-K	785	LYS	N-CA-C	-6.50	99.43	109.24
6	1-G	161	VAL	CA-C-O	6.49	127.52	120.57
6	2-G	161	VAL	CA-C-O	6.49	127.52	120.57
3	1-C	133	SER	CA-C-O	-6.49	114.49	121.56
3	2-C	133	SER	CA-C-O	-6.49	114.49	121.56
3	3-C	133	SER	CA-C-O	-6.49	114.49	121.56
1	2-A	402	SER	N-CA-C	-6.49	96.80	108.48
1	3-A	402	SER	N-CA-C	-6.49	96.80	108.48
6	2-K	178	VAL	CA-C-O	6.49	127.71	120.64
4	1-D	53	SER	N-CA-C	-6.48	104.67	112.58
4	2-D	53	SER	N-CA-C	-6.48	104.67	112.58
4	3-D	53	SER	N-CA-C	-6.48	104.67	112.58
2	1-B	364	SER	N-CA-C	-6.48	102.48	111.81
2	2-B	364	SER	N-CA-C	-6.48	102.48	111.81
2	3-B	364	SER	N-CA-C	-6.48	102.48	111.81
6	1-G	111	LYS	N-CA-C	-6.48	104.22	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	111	LYS	N-CA-C	-6.48	104.22	111.28
1	1-A	731	GLY	CA-C-N	6.47	131.53	120.72
1	1-A	731	GLY	C-N-CA	6.47	131.53	120.72
1	2-A	731	GLY	CA-C-N	6.47	131.53	120.72
1	2-A	731	GLY	C-N-CA	6.47	131.53	120.72
1	3-A	731	GLY	CA-C-N	6.47	131.53	120.72
1	3-A	731	GLY	C-N-CA	6.47	131.53	120.72
3	1-C	696	TYR	N-CA-C	6.47	118.34	111.28
3	2-C	696	TYR	N-CA-C	6.47	118.34	111.28
3	3-C	696	TYR	N-CA-C	6.47	118.34	111.28
2	1-B	405	CYS	CA-C-N	6.47	129.60	120.28
2	1-B	405	CYS	C-N-CA	6.47	129.60	120.28
2	3-B	405	CYS	CA-C-N	6.47	129.60	120.28
2	3-B	405	CYS	C-N-CA	6.47	129.60	120.28
6	1-K	813	CYS	N-CA-C	6.46	124.56	110.80
6	2-K	813	CYS	N-CA-C	6.46	124.56	110.80
6	3-K	813	CYS	N-CA-C	6.46	124.56	110.80
1	3-A	758	ALA	CA-C-O	-6.46	113.70	120.55
6	1-K	40	ASN	N-CA-C	-6.46	95.55	109.81
6	2-K	40	ASN	N-CA-C	-6.46	95.55	109.81
6	1-K	273	ALA	N-CA-C	6.45	118.39	111.36
6	2-K	273	ALA	N-CA-C	6.45	118.39	111.36
6	1-K	670	ASN	CA-C-N	6.44	129.24	120.54
6	1-K	670	ASN	C-N-CA	6.44	129.24	120.54
6	2-K	670	ASN	CA-C-N	6.44	129.24	120.54
6	2-K	670	ASN	C-N-CA	6.44	129.24	120.54
3	1-C	176	SER	O-C-N	-6.44	115.19	121.56
3	2-C	176	SER	O-C-N	-6.44	115.19	121.56
3	3-C	176	SER	O-C-N	-6.44	115.19	121.56
7	1-L	85	GLU	CA-C-N	6.43	133.83	121.54
7	1-L	85	GLU	C-N-CA	6.43	133.83	121.54
7	2-L	85	GLU	CA-C-N	6.43	133.83	121.54
7	2-L	85	GLU	C-N-CA	6.43	133.83	121.54
7	3-L	85	GLU	CA-C-N	6.43	133.83	121.54
7	3-L	85	GLU	C-N-CA	6.43	133.83	121.54
6	1-K	288	ALA	CA-C-N	6.43	128.67	120.56
6	1-K	288	ALA	C-N-CA	6.43	128.67	120.56
1	2-A	621	VAL	CA-C-N	6.43	134.02	121.41
1	2-A	621	VAL	C-N-CA	6.43	134.02	121.41
6	2-K	288	ALA	CA-C-N	6.43	128.67	120.56
6	2-K	288	ALA	C-N-CA	6.43	128.67	120.56
1	3-A	621	VAL	CA-C-N	6.43	134.02	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	621	VAL	C-N-CA	6.43	134.02	121.41
5	1-M	22	MET	CA-C-N	-6.43	113.66	122.92
5	1-M	22	MET	C-N-CA	-6.43	113.66	122.92
5	2-M	22	MET	CA-C-N	-6.43	113.66	122.92
5	2-M	22	MET	C-N-CA	-6.43	113.66	122.92
5	3-M	22	MET	CA-C-N	-6.43	113.66	122.92
5	3-M	22	MET	C-N-CA	-6.43	113.66	122.92
3	1-C	111	GLN	N-CA-C	-6.43	100.61	110.32
3	1-C	588	LEU	N-CA-C	-6.43	97.10	110.80
3	2-C	111	GLN	N-CA-C	-6.43	100.61	110.32
3	2-C	588	LEU	N-CA-C	-6.43	97.10	110.80
3	3-C	111	GLN	N-CA-C	-6.43	100.61	110.32
3	3-C	588	LEU	N-CA-C	-6.43	97.10	110.80
3	1-C	105	ILE	N-CA-C	-6.42	98.89	108.46
2	2-B	849	THR	N-CA-C	6.42	119.17	109.41
3	2-C	105	ILE	N-CA-C	-6.42	98.89	108.46
2	3-B	849	THR	N-CA-C	6.42	119.17	109.41
3	3-C	105	ILE	N-CA-C	-6.42	98.89	108.46
3	2-C	615	LYS	CA-C-N	6.42	128.88	120.28
3	2-C	615	LYS	C-N-CA	6.42	128.88	120.28
3	3-C	615	LYS	CA-C-N	6.42	128.88	120.28
3	3-C	615	LYS	C-N-CA	6.42	128.88	120.28
1	2-A	400	ALA	CA-C-N	6.42	128.88	120.28
1	2-A	400	ALA	C-N-CA	6.42	128.88	120.28
1	3-A	400	ALA	CA-C-N	6.42	128.88	120.28
1	3-A	400	ALA	C-N-CA	6.42	128.88	120.28
1	2-A	611	VAL	CA-C-N	6.41	128.87	120.28
1	2-A	611	VAL	C-N-CA	6.41	128.87	120.28
2	2-B	935	ASP	N-CA-C	6.41	124.46	110.80
1	3-A	611	VAL	CA-C-N	6.41	128.87	120.28
1	3-A	611	VAL	C-N-CA	6.41	128.87	120.28
2	3-B	935	ASP	N-CA-C	6.41	124.46	110.80
3	1-C	202	LEU	O-C-N	6.41	131.48	123.15
6	1-G	670	ASN	CA-C-N	6.41	129.19	120.54
6	1-G	670	ASN	C-N-CA	6.41	129.19	120.54
1	2-A	424	ASN	N-CA-C	6.41	124.45	110.80
2	2-B	803	ASN	N-CA-C	-6.41	101.00	110.48
3	2-C	202	LEU	O-C-N	6.41	131.48	123.15
6	2-G	670	ASN	CA-C-N	6.41	129.19	120.54
6	2-G	670	ASN	C-N-CA	6.41	129.19	120.54
1	3-A	424	ASN	N-CA-C	6.41	124.45	110.80
2	3-B	803	ASN	N-CA-C	-6.41	101.00	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-A	732	HIS	CA-C-N	6.40	128.86	120.28
1	1-A	732	HIS	C-N-CA	6.40	128.86	120.28
1	2-A	732	HIS	CA-C-N	6.40	128.86	120.28
1	2-A	732	HIS	C-N-CA	6.40	128.86	120.28
1	3-A	732	HIS	CA-C-N	6.40	128.86	120.28
1	3-A	732	HIS	C-N-CA	6.40	128.86	120.28
5	1-M	62	SER	N-CA-C	6.40	119.65	107.75
5	2-M	62	SER	N-CA-C	6.40	119.65	107.75
5	3-M	62	SER	N-CA-C	6.40	119.65	107.75
2	1-B	528	LYS	CA-C-N	6.39	128.85	120.28
2	1-B	528	LYS	C-N-CA	6.39	128.85	120.28
3	1-C	662	VAL	N-CA-C	-6.39	96.04	109.34
3	2-C	662	VAL	N-CA-C	-6.39	96.04	109.34
2	3-B	528	LYS	CA-C-N	6.39	128.85	120.28
2	3-B	528	LYS	C-N-CA	6.39	128.85	120.28
3	3-C	662	VAL	N-CA-C	-6.39	96.04	109.34
3	1-C	184	HIS	N-CA-C	6.39	118.80	110.43
3	1-C	661	ALA	CA-C-N	6.39	133.47	121.97
3	1-C	661	ALA	C-N-CA	6.39	133.47	121.97
3	2-C	184	HIS	N-CA-C	6.39	118.80	110.43
3	2-C	661	ALA	CA-C-N	6.39	133.47	121.97
3	2-C	661	ALA	C-N-CA	6.39	133.47	121.97
3	3-C	184	HIS	N-CA-C	6.39	118.80	110.43
3	3-C	661	ALA	CA-C-N	6.39	133.47	121.97
3	3-C	661	ALA	C-N-CA	6.39	133.47	121.97
3	2-C	602	ASP	CA-C-N	6.39	128.74	120.44
3	2-C	602	ASP	C-N-CA	6.39	128.74	120.44
3	3-C	602	ASP	CA-C-N	6.39	128.74	120.44
3	3-C	602	ASP	C-N-CA	6.39	128.74	120.44
7	1-L	141	GLN	CA-C-N	6.38	128.60	120.56
7	1-L	141	GLN	C-N-CA	6.38	128.60	120.56
7	2-L	141	GLN	CA-C-N	6.38	128.60	120.56
7	2-L	141	GLN	C-N-CA	6.38	128.60	120.56
7	3-L	141	GLN	CA-C-N	6.38	128.60	120.56
7	3-L	141	GLN	C-N-CA	6.38	128.60	120.56
6	2-K	183	GLU	CA-C-O	6.38	127.18	120.42
2	2-B	914	SER	CA-C-N	6.38	131.23	120.64
2	2-B	914	SER	C-N-CA	6.38	131.23	120.64
2	3-B	914	SER	CA-C-N	6.38	131.23	120.64
2	3-B	914	SER	C-N-CA	6.38	131.23	120.64
6	1-G	130	GLN	N-CA-C	-6.38	104.41	111.36
6	2-G	130	GLN	N-CA-C	-6.38	104.41	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	189	ASN	N-CA-C	-6.37	98.59	109.24
1	2-A	629	LEU	N-CA-C	-6.37	104.66	112.88
1	3-A	629	LEU	N-CA-C	-6.37	104.66	112.88
5	1-F	32	THR	CA-C-N	6.36	128.81	120.60
5	1-F	32	THR	C-N-CA	6.36	128.81	120.60
5	2-F	32	THR	CA-C-N	6.36	128.81	120.60
5	2-F	32	THR	C-N-CA	6.36	128.81	120.60
6	1-G	811	HIS	CA-C-N	6.36	126.12	119.76
6	1-G	811	HIS	C-N-CA	6.36	126.12	119.76
6	2-G	811	HIS	CA-C-N	6.36	126.12	119.76
6	2-G	811	HIS	C-N-CA	6.36	126.12	119.76
6	3-G	811	HIS	CA-C-N	6.36	126.12	119.76
6	3-G	811	HIS	C-N-CA	6.36	126.12	119.76
6	1-G	104	ILE	CA-C-O	6.36	127.56	120.95
6	1-G	355	SER	CA-C-N	6.36	128.70	120.44
6	1-G	355	SER	C-N-CA	6.36	128.70	120.44
6	2-G	104	ILE	CA-C-O	6.36	127.56	120.95
6	2-G	355	SER	CA-C-N	6.36	128.70	120.44
6	2-G	355	SER	C-N-CA	6.36	128.70	120.44
4	1-D	54	VAL	CA-C-N	6.35	130.50	121.42
4	1-D	54	VAL	C-N-CA	6.35	130.50	121.42
4	2-D	54	VAL	CA-C-N	6.35	130.50	121.42
4	2-D	54	VAL	C-N-CA	6.35	130.50	121.42
4	3-D	54	VAL	CA-C-N	6.35	130.50	121.42
4	3-D	54	VAL	C-N-CA	6.35	130.50	121.42
3	1-C	488	LEU	N-CA-C	6.35	119.88	109.85
3	2-C	488	LEU	N-CA-C	6.35	119.88	109.85
3	3-C	488	LEU	N-CA-C	6.35	119.88	109.85
3	1-C	100	ASP	CA-C-N	6.35	132.95	121.97
3	1-C	100	ASP	C-N-CA	6.35	132.95	121.97
3	2-C	100	ASP	CA-C-N	6.35	132.95	121.97
3	2-C	100	ASP	C-N-CA	6.35	132.95	121.97
3	3-C	100	ASP	CA-C-N	6.35	132.95	121.97
3	3-C	100	ASP	C-N-CA	6.35	132.95	121.97
1	1-A	574	LYS	CA-C-N	6.34	133.85	121.41
1	1-A	574	LYS	C-N-CA	6.34	133.85	121.41
3	1-C	151	ASN	CA-C-O	-6.34	114.58	119.46
3	1-C	524	VAL	CA-C-N	-6.34	111.81	120.44
3	1-C	524	VAL	C-N-CA	-6.34	111.81	120.44
1	2-A	574	LYS	CA-C-N	6.34	133.85	121.41
1	2-A	574	LYS	C-N-CA	6.34	133.85	121.41
3	2-C	151	ASN	CA-C-O	-6.34	114.58	119.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	574	LYS	CA-C-N	6.34	133.85	121.41
1	3-A	574	LYS	C-N-CA	6.34	133.85	121.41
3	3-C	151	ASN	CA-C-O	-6.34	114.58	119.46
3	3-C	524	VAL	CA-C-N	-6.34	111.81	120.44
3	3-C	524	VAL	C-N-CA	-6.34	111.81	120.44
2	1-B	236	ASP	N-CA-C	6.34	118.19	111.28
2	2-B	236	ASP	N-CA-C	6.34	118.19	111.28
2	3-B	236	ASP	N-CA-C	6.34	118.19	111.28
6	1-G	484	HIS	CA-C-N	6.34	128.68	120.44
6	1-G	484	HIS	C-N-CA	6.34	128.68	120.44
6	2-G	484	HIS	CA-C-N	6.34	128.68	120.44
6	2-G	484	HIS	C-N-CA	6.34	128.68	120.44
3	1-C	367	VAL	CA-C-N	-6.34	114.84	123.14
3	1-C	367	VAL	C-N-CA	-6.34	114.84	123.14
3	3-C	367	VAL	CA-C-N	-6.34	114.84	123.14
3	3-C	367	VAL	C-N-CA	-6.34	114.84	123.14
2	3-B	64	ILE	CA-C-N	6.33	128.76	120.28
2	3-B	64	ILE	C-N-CA	6.33	128.76	120.28
1	1-A	578	VAL	CA-C-O	-6.32	114.46	121.23
3	1-C	414	ILE	CA-C-O	-6.32	113.59	120.67
1	2-A	578	VAL	CA-C-O	-6.32	114.46	121.23
3	2-C	414	ILE	CA-C-O	-6.32	113.59	120.67
1	3-A	578	VAL	CA-C-O	-6.32	114.46	121.23
3	3-C	414	ILE	CA-C-O	-6.32	113.59	120.67
6	2-K	156	SER	N-CA-C	-6.32	104.39	111.28
1	1-A	677	LEU	N-CA-C	6.32	118.25	111.36
1	2-A	677	LEU	N-CA-C	6.32	118.25	111.36
1	3-A	677	LEU	N-CA-C	6.32	118.25	111.36
1	2-A	173	SER	N-CA-C	6.32	113.91	108.22
2	2-B	896	GLU	N-CA-C	-6.32	98.08	108.76
1	3-A	173	SER	N-CA-C	6.32	113.91	108.22
2	3-B	896	GLU	N-CA-C	-6.32	98.08	108.76
6	1-G	537	GLN	CA-C-O	-6.32	113.73	120.42
6	2-G	537	GLN	CA-C-O	-6.32	113.73	120.42
1	1-A	519	ASP	CA-C-N	-6.30	114.03	122.42
1	1-A	519	ASP	C-N-CA	-6.30	114.03	122.42
1	2-A	80	TYR	N-CA-C	-6.30	104.03	111.03
1	2-A	519	ASP	CA-C-N	-6.30	114.03	122.42
1	2-A	519	ASP	C-N-CA	-6.30	114.03	122.42
1	3-A	80	TYR	N-CA-C	-6.30	104.03	111.03
1	3-A	519	ASP	CA-C-N	-6.30	114.03	122.42
1	3-A	519	ASP	C-N-CA	-6.30	114.03	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	43	ASN	CA-C-N	6.30	129.36	120.28
3	1-C	43	ASN	C-N-CA	6.30	129.36	120.28
3	2-C	43	ASN	CA-C-N	6.30	129.36	120.28
3	2-C	43	ASN	C-N-CA	6.30	129.36	120.28
3	3-C	43	ASN	CA-C-N	6.30	129.36	120.28
3	3-C	43	ASN	C-N-CA	6.30	129.36	120.28
3	1-C	629	GLY	N-CA-C	-6.30	106.00	115.32
3	2-C	629	GLY	N-CA-C	-6.30	106.00	115.32
3	3-C	629	GLY	N-CA-C	-6.30	106.00	115.32
1	2-A	20	LYS	N-CA-C	-6.30	106.23	114.04
1	3-A	20	LYS	N-CA-C	-6.30	106.23	114.04
3	1-C	153	LYS	N-CA-C	-6.30	104.33	111.07
1	2-A	604	ILE	N-CA-C	-6.30	104.36	110.72
3	2-C	153	LYS	N-CA-C	-6.30	104.33	111.07
1	3-A	604	ILE	N-CA-C	-6.30	104.36	110.72
3	3-C	153	LYS	N-CA-C	-6.30	104.33	111.07
1	1-A	487	LYS	O-C-N	6.29	130.40	123.22
1	2-A	487	LYS	O-C-N	6.29	130.40	123.22
1	3-A	487	LYS	O-C-N	6.29	130.40	123.22
6	2-K	222	GLY	N-CA-C	-6.29	98.27	113.18
2	2-B	557	LEU	N-CA-C	-6.29	104.43	111.28
2	3-B	557	LEU	N-CA-C	-6.29	104.43	111.28
6	1-K	811	HIS	CA-C-N	6.29	126.05	119.76
6	1-K	811	HIS	C-N-CA	6.29	126.05	119.76
6	2-K	811	HIS	CA-C-N	6.29	126.05	119.76
6	2-K	811	HIS	C-N-CA	6.29	126.05	119.76
7	2-Z	141	GLN	N-CA-C	-6.28	104.35	111.07
1	2-A	158	THR	CA-C-N	6.28	131.66	122.94
1	2-A	158	THR	C-N-CA	6.28	131.66	122.94
1	3-A	158	THR	CA-C-N	6.28	131.66	122.94
1	3-A	158	THR	C-N-CA	6.28	131.66	122.94
1	2-A	42	THR	CA-C-N	6.28	129.74	120.95
1	2-A	42	THR	C-N-CA	6.28	129.74	120.95
1	3-A	42	THR	CA-C-N	6.28	129.74	120.95
1	3-A	42	THR	C-N-CA	6.28	129.74	120.95
4	1-D	123	GLU	N-CA-C	6.27	117.92	111.14
1	2-A	116	THR	CA-C-N	6.27	131.71	122.99
1	2-A	116	THR	C-N-CA	6.27	131.71	122.99
4	2-D	123	GLU	N-CA-C	6.27	117.92	111.14
1	3-A	116	THR	CA-C-N	6.27	131.71	122.99
1	3-A	116	THR	C-N-CA	6.27	131.71	122.99
4	3-D	123	GLU	N-CA-C	6.27	117.92	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	835	VAL	CA-C-N	6.27	128.59	120.44
3	1-C	835	VAL	C-N-CA	6.27	128.59	120.44
6	1-G	279	GLY	N-CA-C	-6.27	103.11	114.46
3	2-C	835	VAL	CA-C-N	6.27	128.59	120.44
3	2-C	835	VAL	C-N-CA	6.27	128.59	120.44
6	2-G	279	GLY	N-CA-C	-6.27	103.11	114.46
3	3-C	835	VAL	CA-C-N	6.27	128.59	120.44
3	3-C	835	VAL	C-N-CA	6.27	128.59	120.44
2	1-B	532	GLU	N-CA-C	6.26	117.77	111.07
3	1-C	504	GLY	N-CA-C	6.26	128.02	113.18
3	2-C	504	GLY	N-CA-C	6.26	128.02	113.18
2	3-B	532	GLU	N-CA-C	6.26	117.77	111.07
3	3-C	504	GLY	N-CA-C	6.26	128.02	113.18
6	1-K	871	ALA	N-CA-C	6.26	117.90	111.14
6	2-K	871	ALA	N-CA-C	6.26	117.90	111.14
6	3-K	871	ALA	N-CA-C	6.26	117.90	111.14
6	1-K	292	LEU	N-CA-C	6.25	118.90	111.33
6	2-K	292	LEU	N-CA-C	6.25	118.90	111.33
6	1-G	226	PRO	CA-C-N	6.25	128.57	120.44
6	1-G	226	PRO	C-N-CA	6.25	128.57	120.44
7	1-L	21	ASN	N-CA-C	-6.25	104.57	111.82
6	2-G	226	PRO	CA-C-N	6.25	128.57	120.44
6	2-G	226	PRO	C-N-CA	6.25	128.57	120.44
7	2-L	21	ASN	N-CA-C	-6.25	104.57	111.82
6	3-G	226	PRO	CA-C-N	6.25	128.57	120.44
6	3-G	226	PRO	C-N-CA	6.25	128.57	120.44
7	3-L	21	ASN	N-CA-C	-6.25	104.57	111.82
3	1-C	164	ASP	N-CA-C	-6.25	105.64	113.20
3	2-C	164	ASP	N-CA-C	-6.25	105.64	113.20
3	3-C	164	ASP	N-CA-C	-6.25	105.64	113.20
2	1-B	110	LEU	N-CA-C	-6.25	104.58	111.82
2	2-B	110	LEU	N-CA-C	-6.25	104.58	111.82
2	3-B	110	LEU	N-CA-C	-6.25	104.58	111.82
6	2-G	369	SER	N-CA-C	6.24	118.88	111.71
1	3-A	804	LEU	CA-C-N	6.23	133.45	121.54
1	3-A	804	LEU	C-N-CA	6.23	133.45	121.54
2	2-B	842	MET	CA-C-N	6.23	128.54	120.44
2	2-B	842	MET	C-N-CA	6.23	128.54	120.44
2	3-B	842	MET	CA-C-N	6.23	128.54	120.44
2	3-B	842	MET	C-N-CA	6.23	128.54	120.44
5	1-M	48	THR	CA-C-O	6.23	128.16	121.55
5	2-M	48	THR	CA-C-O	6.23	128.16	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-M	48	THR	CA-C-O	6.23	128.16	121.55
2	2-B	894	THR	CA-C-N	6.23	127.45	120.66
2	2-B	894	THR	C-N-CA	6.23	127.45	120.66
2	3-B	894	THR	CA-C-N	6.23	127.45	120.66
2	3-B	894	THR	C-N-CA	6.23	127.45	120.66
1	1-A	239	ALA	CA-C-N	6.22	133.43	121.54
1	1-A	239	ALA	C-N-CA	6.22	133.43	121.54
6	2-K	169	CYS	N-CA-C	-6.22	104.41	111.07
1	3-A	239	ALA	CA-C-N	6.22	133.43	121.54
1	3-A	239	ALA	C-N-CA	6.22	133.43	121.54
7	2-Z	141	GLN	CA-C-N	6.22	128.40	120.56
7	2-Z	141	GLN	C-N-CA	6.22	128.40	120.56
2	2-B	743	ALA	N-CA-C	-6.21	98.86	109.24
2	3-B	743	ALA	N-CA-C	-6.21	98.86	109.24
1	2-A	297	LEU	N-CA-C	-6.21	99.86	109.24
1	3-A	297	LEU	N-CA-C	-6.21	99.86	109.24
5	2-R	52	ASN	N-CA-C	6.21	118.42	107.61
5	1-M	68	VAL	N-CA-C	6.21	117.05	107.99
5	2-M	68	VAL	N-CA-C	6.21	117.05	107.99
5	3-M	68	VAL	N-CA-C	6.21	117.05	107.99
1	3-A	800	PRO	CA-C-N	6.20	133.14	121.97
1	3-A	800	PRO	C-N-CA	6.20	133.14	121.97
3	1-C	569	LYS	N-CA-C	-6.20	104.43	111.07
3	2-C	569	LYS	N-CA-C	-6.20	104.43	111.07
3	3-C	569	LYS	N-CA-C	-6.20	104.43	111.07
7	1-L	38	VAL	CA-C-N	6.20	128.50	120.44
7	1-L	38	VAL	C-N-CA	6.20	128.50	120.44
7	2-L	38	VAL	CA-C-N	6.20	128.50	120.44
7	2-L	38	VAL	C-N-CA	6.20	128.50	120.44
7	3-L	38	VAL	CA-C-N	6.20	128.50	120.44
7	3-L	38	VAL	C-N-CA	6.20	128.50	120.44
6	1-K	750	GLU	N-CA-C	-6.20	99.62	109.23
3	2-C	602	ASP	N-CA-C	-6.20	100.22	109.83
6	2-K	750	GLU	N-CA-C	-6.20	99.62	109.23
3	3-C	602	ASP	N-CA-C	-6.20	100.22	109.83
1	2-A	438	LYS	N-CA-C	-6.20	98.29	108.76
1	3-A	438	LYS	N-CA-C	-6.20	98.29	108.76
1	1-A	249	TYR	CA-C-N	6.19	133.37	121.54
1	1-A	249	TYR	C-N-CA	6.19	133.37	121.54
1	3-A	249	TYR	CA-C-N	6.19	133.37	121.54
1	3-A	249	TYR	C-N-CA	6.19	133.37	121.54
2	1-B	460	VAL	CA-C-N	6.19	128.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	460	VAL	C-N-CA	6.19	128.49	120.44
6	2-G	871	ALA	N-CA-C	6.19	117.83	111.14
2	3-B	460	VAL	CA-C-N	6.19	128.49	120.44
2	3-B	460	VAL	C-N-CA	6.19	128.49	120.44
6	3-G	871	ALA	N-CA-C	6.19	117.83	111.14
2	1-B	262	ARG	N-CA-C	-6.19	104.45	111.07
2	2-B	262	ARG	N-CA-C	-6.19	104.45	111.07
2	3-B	262	ARG	N-CA-C	-6.19	104.45	111.07
7	1-L	115	LEU	CA-C-N	6.18	128.57	120.28
7	1-L	115	LEU	C-N-CA	6.18	128.57	120.28
7	2-L	115	LEU	CA-C-N	6.18	128.57	120.28
7	2-L	115	LEU	C-N-CA	6.18	128.57	120.28
7	3-L	115	LEU	CA-C-N	6.18	128.57	120.28
7	3-L	115	LEU	C-N-CA	6.18	128.57	120.28
6	1-G	750	GLU	N-CA-C	-6.18	99.65	109.23
6	2-G	750	GLU	N-CA-C	-6.18	99.65	109.23
3	1-C	718	GLY	CA-C-N	6.18	128.56	120.28
3	1-C	718	GLY	C-N-CA	6.18	128.56	120.28
3	2-C	718	GLY	CA-C-N	6.18	128.56	120.28
3	2-C	718	GLY	C-N-CA	6.18	128.56	120.28
3	3-C	718	GLY	CA-C-N	6.18	128.56	120.28
3	3-C	718	GLY	C-N-CA	6.18	128.56	120.28
2	1-B	349	LEU	CA-C-N	6.17	128.55	120.28
2	1-B	349	LEU	C-N-CA	6.17	128.55	120.28
6	1-K	308	VAL	CA-C-N	-6.17	114.28	122.99
6	1-K	308	VAL	C-N-CA	-6.17	114.28	122.99
2	2-B	349	LEU	CA-C-N	6.17	128.55	120.28
2	2-B	349	LEU	C-N-CA	6.17	128.55	120.28
6	2-K	308	VAL	CA-C-N	-6.17	114.28	122.99
6	2-K	308	VAL	C-N-CA	-6.17	114.28	122.99
2	3-B	349	LEU	CA-C-N	6.17	128.55	120.28
2	3-B	349	LEU	C-N-CA	6.17	128.55	120.28
4	1-D	101	GLU	CA-C-N	6.17	128.91	120.46
4	1-D	101	GLU	C-N-CA	6.17	128.91	120.46
4	2-D	101	GLU	CA-C-N	6.17	128.91	120.46
4	2-D	101	GLU	C-N-CA	6.17	128.91	120.46
4	3-D	101	GLU	CA-C-N	6.17	128.91	120.46
4	3-D	101	GLU	C-N-CA	6.17	128.91	120.46
6	1-K	624	GLN	N-CA-C	-6.17	100.27	109.83
6	2-K	624	GLN	N-CA-C	-6.17	100.27	109.83
7	1-L	46	LYS	CA-C-N	-6.17	112.51	120.65
7	1-L	46	LYS	C-N-CA	-6.17	112.51	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	2-L	46	LYS	CA-C-N	-6.17	112.51	120.65
7	2-L	46	LYS	C-N-CA	-6.17	112.51	120.65
7	3-L	46	LYS	CA-C-N	-6.17	112.51	120.65
7	3-L	46	LYS	C-N-CA	-6.17	112.51	120.65
1	1-A	662	LEU	CA-C-N	6.17	129.05	120.29
1	1-A	662	LEU	C-N-CA	6.17	129.05	120.29
1	2-A	662	LEU	CA-C-N	6.17	129.05	120.29
1	2-A	662	LEU	C-N-CA	6.17	129.05	120.29
1	3-A	662	LEU	CA-C-N	6.17	129.05	120.29
1	3-A	662	LEU	C-N-CA	6.17	129.05	120.29
2	1-B	321	VAL	N-CA-C	-6.17	104.33	110.62
2	2-B	321	VAL	N-CA-C	-6.17	104.33	110.62
2	3-B	321	VAL	N-CA-C	-6.17	104.33	110.62
6	1-K	746	GLY	CA-C-O	-6.16	115.07	121.91
2	2-B	784	VAL	CA-C-O	-6.16	113.08	120.78
6	2-K	746	GLY	CA-C-O	-6.16	115.07	121.91
2	3-B	784	VAL	CA-C-O	-6.16	113.08	120.78
6	3-K	746	GLY	CA-C-O	-6.16	115.07	121.91
6	1-G	624	GLN	N-CA-C	-6.16	100.29	109.83
6	2-G	624	GLN	N-CA-C	-6.16	100.29	109.83
3	1-C	727	VAL	CA-C-N	6.15	128.53	120.28
3	1-C	727	VAL	C-N-CA	6.15	128.53	120.28
3	2-C	727	VAL	CA-C-N	6.15	128.53	120.28
3	2-C	727	VAL	C-N-CA	6.15	128.53	120.28
3	3-C	727	VAL	CA-C-N	6.15	128.53	120.28
3	3-C	727	VAL	C-N-CA	6.15	128.53	120.28
2	1-B	433	ALA	CA-C-N	6.15	128.43	120.44
2	1-B	433	ALA	C-N-CA	6.15	128.43	120.44
6	1-G	746	GLY	CA-C-O	-6.15	115.08	121.91
7	1-L	38	VAL	N-CA-C	-6.15	104.51	110.72
6	2-G	746	GLY	CA-C-O	-6.15	115.08	121.91
7	2-L	38	VAL	N-CA-C	-6.15	104.51	110.72
2	3-B	433	ALA	CA-C-N	6.15	128.43	120.44
2	3-B	433	ALA	C-N-CA	6.15	128.43	120.44
7	3-L	38	VAL	N-CA-C	-6.15	104.51	110.72
1	1-A	666	LYS	N-CA-C	-6.15	104.58	111.28
1	2-A	666	LYS	N-CA-C	-6.15	104.58	111.28
1	3-A	666	LYS	N-CA-C	-6.15	104.58	111.28
5	2-R	57	GLN	N-CA-C	-6.14	99.19	108.96
3	1-C	716	ALA	N-CA-C	-6.14	104.59	111.28
3	2-C	716	ALA	N-CA-C	-6.14	104.59	111.28
3	3-C	716	ALA	N-CA-C	-6.14	104.59	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-A	267	ASN	N-CA-C	-6.14	99.35	108.99
3	1-C	145	VAL	CA-C-N	6.14	129.01	120.29
3	1-C	145	VAL	C-N-CA	6.14	129.01	120.29
1	2-A	267	ASN	N-CA-C	-6.14	99.35	108.99
3	2-C	145	VAL	CA-C-N	6.14	129.01	120.29
3	2-C	145	VAL	C-N-CA	6.14	129.01	120.29
7	2-Z	67	VAL	N-CA-C	-6.14	98.79	107.75
1	3-A	267	ASN	N-CA-C	-6.14	99.35	108.99
3	3-C	145	VAL	CA-C-N	6.14	129.01	120.29
3	3-C	145	VAL	C-N-CA	6.14	129.01	120.29
3	1-C	567	ILE	CA-C-O	6.14	123.91	119.25
3	2-C	567	ILE	CA-C-O	6.14	123.91	119.25
3	3-C	567	ILE	CA-C-O	6.14	123.91	119.25
5	1-M	171	GLU	CA-C-N	6.13	128.78	120.38
5	1-M	171	GLU	C-N-CA	6.13	128.78	120.38
5	2-M	171	GLU	CA-C-N	6.13	128.78	120.38
5	2-M	171	GLU	C-N-CA	6.13	128.78	120.38
5	3-M	171	GLU	CA-C-N	6.13	128.78	120.38
5	3-M	171	GLU	C-N-CA	6.13	128.78	120.38
6	1-K	646	TYR	N-CA-C	-6.13	99.73	109.23
6	2-K	646	TYR	N-CA-C	-6.13	99.73	109.23
1	2-A	78	TRP	CA-C-N	6.12	130.82	122.19
1	2-A	78	TRP	C-N-CA	6.12	130.82	122.19
1	3-A	78	TRP	CA-C-N	6.12	130.82	122.19
1	3-A	78	TRP	C-N-CA	6.12	130.82	122.19
3	1-C	84	PHE	N-CA-C	-6.12	100.04	109.52
1	2-A	611	VAL	O-C-N	6.12	128.13	121.83
3	2-C	84	PHE	N-CA-C	-6.12	100.04	109.52
1	3-A	611	VAL	O-C-N	6.12	128.13	121.83
3	3-C	84	PHE	N-CA-C	-6.12	100.04	109.52
3	1-C	378	TYR	O-C-N	6.11	131.14	123.19
7	1-L	34	THR	N-CA-C	-6.11	107.65	114.62
6	2-K	169	CYS	O-C-N	6.11	128.37	122.07
7	2-L	34	THR	N-CA-C	-6.11	107.65	114.62
3	3-C	378	TYR	O-C-N	6.11	131.14	123.19
7	3-L	34	THR	N-CA-C	-6.11	107.65	114.62
7	1-Z	19	LEU	N-CA-C	-6.11	99.94	109.72
7	2-Z	19	LEU	N-CA-C	-6.11	99.94	109.72
7	3-Z	19	LEU	N-CA-C	-6.11	99.94	109.72
3	1-C	572	ARG	N-CA-C	-6.11	100.02	109.24
3	1-C	824	TYR	CA-C-O	-6.11	111.79	120.16
3	2-C	572	ARG	N-CA-C	-6.11	100.02	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	824	TYR	CA-C-O	-6.11	111.79	120.16
3	3-C	572	ARG	N-CA-C	-6.11	100.02	109.24
3	3-C	824	TYR	CA-C-O	-6.11	111.79	120.16
1	2-A	533	GLY	N-CA-C	-6.11	99.61	111.03
1	3-A	533	GLY	N-CA-C	-6.11	99.61	111.03
3	1-C	626	GLU	N-CA-C	-6.11	104.63	111.28
3	2-C	626	GLU	N-CA-C	-6.11	104.63	111.28
3	3-C	626	GLU	N-CA-C	-6.11	104.63	111.28
1	2-A	458	TYR	N-CA-C	-6.10	100.25	109.95
1	3-A	458	TYR	N-CA-C	-6.10	100.25	109.95
6	1-G	679	VAL	N-CA-C	6.10	116.65	107.75
6	2-G	679	VAL	N-CA-C	6.10	116.65	107.75
7	2-Z	32	ASP	N-CA-C	-6.10	99.97	109.72
7	3-Z	32	ASP	N-CA-C	-6.10	99.97	109.72
6	2-K	208	ARG	CA-C-O	6.10	126.98	120.70
3	1-C	738	LEU	CA-C-N	6.09	128.36	120.44
3	1-C	738	LEU	C-N-CA	6.09	128.36	120.44
4	1-D	55	ARG	N-CA-C	-6.09	100.57	110.20
1	2-A	35	LEU	N-CA-C	-6.09	98.97	108.90
3	2-C	738	LEU	CA-C-N	6.09	128.36	120.44
3	2-C	738	LEU	C-N-CA	6.09	128.36	120.44
4	2-D	55	ARG	N-CA-C	-6.09	100.57	110.20
1	3-A	35	LEU	N-CA-C	-6.09	98.97	108.90
3	3-C	738	LEU	CA-C-N	6.09	128.36	120.44
3	3-C	738	LEU	C-N-CA	6.09	128.36	120.44
4	3-D	55	ARG	N-CA-C	-6.09	100.57	110.20
6	1-K	679	VAL	N-CA-C	6.09	116.64	107.75
1	2-A	18	HIS	CA-C-N	6.09	125.79	119.82
1	2-A	18	HIS	C-N-CA	6.09	125.79	119.82
6	2-K	679	VAL	N-CA-C	6.09	116.64	107.75
1	3-A	18	HIS	CA-C-N	6.09	125.79	119.82
1	3-A	18	HIS	C-N-CA	6.09	125.79	119.82
7	1-Z	18	ILE	N-CA-C	-6.08	98.77	107.77
7	2-Z	18	ILE	N-CA-C	-6.08	98.77	107.77
7	3-Z	18	ILE	N-CA-C	-6.08	98.77	107.77
2	1-B	90	LYS	N-CA-C	-6.08	104.74	111.36
2	1-B	434	ASP	CA-C-N	6.08	128.22	120.56
2	1-B	434	ASP	C-N-CA	6.08	128.22	120.56
6	1-K	54	LEU	N-CA-C	-6.08	104.74	111.36
2	2-B	90	LYS	N-CA-C	-6.08	104.74	111.36
6	2-K	54	LEU	N-CA-C	-6.08	104.74	111.36
6	2-K	68	GLU	N-CA-C	-6.08	104.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-B	90	LYS	N-CA-C	-6.08	104.74	111.36
2	3-B	434	ASP	CA-C-N	6.08	128.22	120.56
2	3-B	434	ASP	C-N-CA	6.08	128.22	120.56
6	1-K	732	VAL	N-CA-C	-6.08	99.66	108.17
6	2-K	732	VAL	N-CA-C	-6.08	99.66	108.17
6	3-K	732	VAL	N-CA-C	-6.08	99.66	108.17
2	1-B	231	VAL	CA-C-N	6.07	129.03	120.28
2	1-B	231	VAL	C-N-CA	6.07	129.03	120.28
2	2-B	231	VAL	CA-C-N	6.07	129.03	120.28
2	2-B	231	VAL	C-N-CA	6.07	129.03	120.28
7	2-Z	31	TYR	N-CA-C	-6.07	104.58	111.14
2	3-B	231	VAL	CA-C-N	6.07	129.03	120.28
2	3-B	231	VAL	C-N-CA	6.07	129.03	120.28
7	3-Z	31	TYR	N-CA-C	-6.07	104.58	111.14
6	1-G	732	VAL	N-CA-C	-6.07	99.67	108.17
6	2-G	732	VAL	N-CA-C	-6.07	99.67	108.17
2	3-B	49	ASP	CA-C-N	6.07	128.77	120.46
2	3-B	49	ASP	C-N-CA	6.07	128.77	120.46
5	2-R	45	THR	N-CA-C	-6.07	106.23	113.21
6	1-K	261	ASN	N-CA-C	6.06	118.60	110.35
6	2-K	261	ASN	N-CA-C	6.06	118.60	110.35
3	1-C	361	ASN	N-CA-C	-6.06	101.30	110.39
5	1-F	132	GLU	CA-C-N	6.06	132.16	121.80
5	1-F	132	GLU	C-N-CA	6.06	132.16	121.80
6	1-K	782	GLU	N-CA-C	-6.06	104.02	112.45
1	2-A	30	ASN	N-CA-C	-6.06	105.74	113.01
1	2-A	635	PRO	N-CA-C	-6.06	99.98	112.47
5	2-F	132	GLU	CA-C-N	6.06	132.16	121.80
5	2-F	132	GLU	C-N-CA	6.06	132.16	121.80
6	2-K	782	GLU	N-CA-C	-6.06	104.02	112.45
1	3-A	30	ASN	N-CA-C	-6.06	105.74	113.01
1	3-A	635	PRO	N-CA-C	-6.06	99.98	112.47
3	3-C	361	ASN	N-CA-C	-6.06	101.30	110.39
6	1-G	175	LYS	CA-C-N	6.06	129.01	120.28
6	1-G	175	LYS	C-N-CA	6.06	129.01	120.28
6	2-G	175	LYS	CA-C-N	6.06	129.01	120.28
6	2-G	175	LYS	C-N-CA	6.06	129.01	120.28
2	1-B	258	ALA	N-CA-C	6.06	117.89	111.28
2	2-B	258	ALA	N-CA-C	6.06	117.89	111.28
2	3-B	258	ALA	N-CA-C	6.06	117.89	111.28
2	1-B	460	VAL	O-C-N	6.05	127.84	121.91
3	1-C	278	ALA	N-CA-C	-6.05	99.48	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	376	ALA	CA-C-N	6.05	131.43	122.71
1	2-A	376	ALA	C-N-CA	6.05	131.43	122.71
3	2-C	278	ALA	N-CA-C	-6.05	99.48	108.99
7	2-Z	36	PRO	CA-C-N	6.05	133.10	121.54
7	2-Z	36	PRO	C-N-CA	6.05	133.10	121.54
1	3-A	376	ALA	CA-C-N	6.05	131.43	122.71
1	3-A	376	ALA	C-N-CA	6.05	131.43	122.71
2	3-B	460	VAL	O-C-N	6.05	127.84	121.91
7	3-Z	36	PRO	CA-C-N	6.05	133.10	121.54
7	3-Z	36	PRO	C-N-CA	6.05	133.10	121.54
6	2-G	782	GLU	N-CA-C	-6.05	104.04	112.45
2	1-B	456	LYS	CA-C-N	6.05	128.39	120.28
2	1-B	456	LYS	C-N-CA	6.05	128.39	120.28
2	2-B	815	PHE	CA-C-N	6.05	127.26	120.42
2	2-B	815	PHE	C-N-CA	6.05	127.26	120.42
2	3-B	456	LYS	CA-C-N	6.05	128.39	120.28
2	3-B	456	LYS	C-N-CA	6.05	128.39	120.28
2	3-B	815	PHE	CA-C-N	6.05	127.26	120.42
2	3-B	815	PHE	C-N-CA	6.05	127.26	120.42
1	1-A	806	THR	N-CA-C	-6.05	104.25	111.69
1	3-A	806	THR	N-CA-C	-6.05	104.25	111.69
6	1-G	685	GLU	N-CA-C	-6.04	98.43	108.34
6	2-G	685	GLU	N-CA-C	-6.04	98.43	108.34
5	1-F	81	TYR	N-CA-C	-6.04	105.56	113.17
5	2-F	81	TYR	N-CA-C	-6.04	105.56	113.17
6	1-K	685	GLU	N-CA-C	-6.04	98.43	108.34
6	2-K	685	GLU	N-CA-C	-6.04	98.43	108.34
1	2-A	156	ASP	N-CA-C	-6.04	104.43	112.94
1	3-A	156	ASP	N-CA-C	-6.04	104.43	112.94
2	3-B	73	LEU	CA-C-N	6.04	128.65	120.38
2	3-B	73	LEU	C-N-CA	6.04	128.65	120.38
4	1-D	62	GLU	CA-C-N	6.04	133.07	121.54
4	1-D	62	GLU	C-N-CA	6.04	133.07	121.54
4	2-D	62	GLU	CA-C-N	6.04	133.07	121.54
4	2-D	62	GLU	C-N-CA	6.04	133.07	121.54
4	3-D	62	GLU	CA-C-N	6.04	133.07	121.54
4	3-D	62	GLU	C-N-CA	6.04	133.07	121.54
5	1-F	52	ASN	N-CA-C	-6.03	99.57	109.40
5	2-F	52	ASN	N-CA-C	-6.03	99.57	109.40
3	1-C	573	LEU	CA-C-N	6.03	131.99	122.94
3	1-C	573	LEU	C-N-CA	6.03	131.99	122.94
3	2-C	573	LEU	CA-C-N	6.03	131.99	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	573	LEU	C-N-CA	6.03	131.99	122.94
3	3-C	573	LEU	CA-C-N	6.03	131.99	122.94
3	3-C	573	LEU	C-N-CA	6.03	131.99	122.94
3	1-C	352	GLU	N-CA-C	-6.03	97.95	110.80
3	2-C	352	GLU	N-CA-C	-6.03	97.95	110.80
3	3-C	352	GLU	N-CA-C	-6.03	97.95	110.80
6	2-G	372	SER	CA-C-N	6.03	133.05	121.54
6	2-G	372	SER	C-N-CA	6.03	133.05	121.54
3	1-C	381	MET	CA-C-N	6.02	128.84	120.29
3	1-C	381	MET	C-N-CA	6.02	128.84	120.29
3	2-C	381	MET	CA-C-N	6.02	128.84	120.29
3	2-C	381	MET	C-N-CA	6.02	128.84	120.29
3	3-C	381	MET	CA-C-N	6.02	128.84	120.29
3	3-C	381	MET	C-N-CA	6.02	128.84	120.29
5	1-F	106	VAL	N-CA-C	6.02	116.76	110.62
5	2-F	106	VAL	N-CA-C	6.02	116.76	110.62
3	1-C	573	LEU	N-CA-C	-6.01	99.91	109.59
3	2-C	573	LEU	N-CA-C	-6.01	99.91	109.59
3	3-C	573	LEU	N-CA-C	-6.01	99.91	109.59
6	1-G	208	ARG	N-CA-C	6.01	119.08	111.69
6	2-G	208	ARG	N-CA-C	6.01	119.08	111.69
6	3-G	208	ARG	N-CA-C	6.01	119.08	111.69
5	1-M	90	PHE	CA-C-N	-6.01	114.62	122.37
5	1-M	90	PHE	C-N-CA	-6.01	114.62	122.37
5	2-M	90	PHE	CA-C-N	-6.01	114.62	122.37
5	2-M	90	PHE	C-N-CA	-6.01	114.62	122.37
5	3-M	90	PHE	CA-C-N	-6.01	114.62	122.37
5	3-M	90	PHE	C-N-CA	-6.01	114.62	122.37
6	1-G	224	LYS	N-CA-C	6.00	120.69	112.04
1	2-A	599	PHE	N-CA-C	6.00	117.49	111.07
6	2-G	224	LYS	N-CA-C	6.00	120.69	112.04
1	3-A	599	PHE	N-CA-C	6.00	117.49	111.07
6	3-G	224	LYS	N-CA-C	6.00	120.69	112.04
1	1-A	251	ASN	CA-C-N	6.00	132.77	121.97
1	1-A	251	ASN	C-N-CA	6.00	132.77	121.97
2	1-B	132	ARG	CA-C-N	6.00	126.64	119.98
2	1-B	132	ARG	C-N-CA	6.00	126.64	119.98
3	1-C	402	GLU	N-CA-C	-6.00	100.02	108.96
1	2-A	79	ASN	CA-C-O	-6.00	113.76	120.54
2	2-B	132	ARG	CA-C-N	6.00	126.64	119.98
2	2-B	132	ARG	C-N-CA	6.00	126.64	119.98
3	2-C	402	GLU	N-CA-C	-6.00	100.02	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	79	ASN	CA-C-O	-6.00	113.76	120.54
1	3-A	251	ASN	CA-C-N	6.00	132.77	121.97
1	3-A	251	ASN	C-N-CA	6.00	132.77	121.97
2	3-B	132	ARG	CA-C-N	6.00	126.64	119.98
2	3-B	132	ARG	C-N-CA	6.00	126.64	119.98
3	3-C	402	GLU	N-CA-C	-6.00	100.02	108.96
4	1-D	60	PRO	N-CA-C	-6.00	101.07	111.32
6	1-G	396	VAL	N-CA-C	-6.00	104.66	110.72
4	2-D	60	PRO	N-CA-C	-6.00	101.07	111.32
6	2-G	396	VAL	N-CA-C	-6.00	104.66	110.72
4	3-D	60	PRO	N-CA-C	-6.00	101.07	111.32
2	1-B	256	GLU	CA-C-O	6.00	126.84	119.05
2	2-B	256	GLU	CA-C-O	6.00	126.84	119.05
2	3-B	256	GLU	CA-C-O	6.00	126.84	119.05
7	1-L	143	VAL	N-CA-C	-5.99	104.67	110.42
7	2-L	143	VAL	N-CA-C	-5.99	104.67	110.42
7	3-L	143	VAL	N-CA-C	-5.99	104.67	110.42
4	1-D	26	ARG	CA-C-N	5.99	130.19	120.60
4	1-D	26	ARG	C-N-CA	5.99	130.19	120.60
4	2-D	26	ARG	CA-C-N	5.99	130.19	120.60
4	2-D	26	ARG	C-N-CA	5.99	130.19	120.60
5	2-R	54	GLU	N-CA-C	-5.99	99.94	109.23
4	3-D	26	ARG	CA-C-N	5.99	130.19	120.60
4	3-D	26	ARG	C-N-CA	5.99	130.19	120.60
1	3-A	765	HIS	N-CA-C	-5.99	105.93	113.18
2	1-B	181	PHE	CA-C-N	5.98	132.97	121.54
2	1-B	181	PHE	C-N-CA	5.98	132.97	121.54
6	1-G	531	TYR	N-CA-C	-5.98	104.84	111.36
2	2-B	181	PHE	CA-C-N	5.98	132.97	121.54
2	2-B	181	PHE	C-N-CA	5.98	132.97	121.54
6	2-G	531	TYR	N-CA-C	-5.98	104.84	111.36
2	3-B	181	PHE	CA-C-N	5.98	132.97	121.54
2	3-B	181	PHE	C-N-CA	5.98	132.97	121.54
6	1-G	805	VAL	O-C-N	5.98	127.77	121.91
6	2-G	805	VAL	O-C-N	5.98	127.77	121.91
6	3-G	805	VAL	O-C-N	5.98	127.77	121.91
6	2-K	118	ASP	CA-C-O	5.98	126.76	120.42
1	3-A	744	GLU	N-CA-C	-5.98	104.84	111.71
2	1-B	448	ASN	CA-C-N	5.97	128.56	120.38
2	1-B	448	ASN	C-N-CA	5.97	128.56	120.38
1	2-A	29	HIS	N-CA-C	-5.97	105.91	112.72
1	3-A	29	HIS	N-CA-C	-5.97	105.91	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-B	448	ASN	CA-C-N	5.97	128.56	120.38
2	3-B	448	ASN	C-N-CA	5.97	128.56	120.38
4	1-D	68	LEU	CA-C-N	-5.97	113.75	122.58
4	1-D	68	LEU	C-N-CA	-5.97	113.75	122.58
4	2-D	68	LEU	CA-C-N	-5.97	113.75	122.58
4	2-D	68	LEU	C-N-CA	-5.97	113.75	122.58
4	3-D	68	LEU	CA-C-N	-5.97	113.75	122.58
4	3-D	68	LEU	C-N-CA	-5.97	113.75	122.58
7	2-Z	76	TYR	CA-C-O	5.97	126.81	120.36
1	3-A	789	ASP	N-CA-C	-5.97	89.71	107.37
1	1-A	720	MET	N-CA-C	-5.96	104.86	111.36
1	2-A	720	MET	N-CA-C	-5.96	104.86	111.36
1	3-A	720	MET	N-CA-C	-5.96	104.86	111.36
2	1-B	436	LEU	N-CA-C	-5.96	104.69	111.07
6	1-G	207	ASP	CA-C-N	5.96	130.78	120.58
6	1-G	207	ASP	C-N-CA	5.96	130.78	120.58
6	2-G	207	ASP	CA-C-N	5.96	130.78	120.58
6	2-G	207	ASP	C-N-CA	5.96	130.78	120.58
2	3-B	436	LEU	N-CA-C	-5.96	104.69	111.07
6	3-G	207	ASP	CA-C-N	5.96	130.78	120.58
6	3-G	207	ASP	C-N-CA	5.96	130.78	120.58
3	1-C	277	VAL	N-CA-C	-5.96	99.20	108.44
3	2-C	277	VAL	N-CA-C	-5.96	99.20	108.44
4	1-D	11	LYS	N-CA-C	5.96	119.38	111.75
4	2-D	11	LYS	N-CA-C	5.96	119.38	111.75
6	2-G	371	ILE	N-CA-C	-5.96	99.58	108.46
3	1-C	154	ASP	N-CA-C	-5.96	93.84	107.48
7	1-L	129	VAL	N-CA-C	-5.96	99.58	108.46
3	2-C	154	ASP	N-CA-C	-5.96	93.84	107.48
7	2-L	129	VAL	N-CA-C	-5.96	99.58	108.46
3	3-C	154	ASP	N-CA-C	-5.96	93.84	107.48
7	3-L	129	VAL	N-CA-C	-5.96	99.58	108.46
2	2-B	150	PRO	N-CA-C	-5.95	104.63	114.75
2	3-B	150	PRO	N-CA-C	-5.95	104.63	114.75
3	1-C	90	GLU	N-CA-C	-5.95	99.54	109.24
3	2-C	90	GLU	N-CA-C	-5.95	99.54	109.24
3	3-C	90	GLU	N-CA-C	-5.95	99.54	109.24
1	2-A	607	LYS	CA-C-N	5.94	131.17	122.08
1	2-A	607	LYS	C-N-CA	5.94	131.17	122.08
1	3-A	607	LYS	CA-C-N	5.94	131.17	122.08
1	3-A	607	LYS	C-N-CA	5.94	131.17	122.08
6	1-K	711	ALA	N-CA-C	-5.94	100.50	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-K	805	VAL	O-C-N	5.94	127.73	121.91
6	2-K	711	ALA	N-CA-C	-5.94	100.50	109.95
6	2-K	805	VAL	O-C-N	5.94	127.73	121.91
6	3-K	711	ALA	N-CA-C	-5.94	100.50	109.95
6	1-K	255	ILE	N-CA-C	5.94	116.12	110.42
6	2-K	255	ILE	N-CA-C	5.94	116.12	110.42
3	1-C	410	SER	N-CA-C	-5.94	98.16	110.80
3	2-C	410	SER	N-CA-C	-5.94	98.16	110.80
3	3-C	410	SER	N-CA-C	-5.94	98.16	110.80
3	1-C	812	LYS	CA-C-N	5.93	128.23	120.28
3	1-C	812	LYS	C-N-CA	5.93	128.23	120.28
3	2-C	812	LYS	CA-C-N	5.93	128.23	120.28
3	2-C	812	LYS	C-N-CA	5.93	128.23	120.28
3	3-C	812	LYS	CA-C-N	5.93	128.23	120.28
3	3-C	812	LYS	C-N-CA	5.93	128.23	120.28
3	1-C	143	HIS	CA-C-N	5.93	129.26	120.90
3	1-C	143	HIS	C-N-CA	5.93	129.26	120.90
3	2-C	143	HIS	CA-C-N	5.93	129.26	120.90
3	2-C	143	HIS	C-N-CA	5.93	129.26	120.90
3	3-C	143	HIS	CA-C-N	5.93	129.26	120.90
3	3-C	143	HIS	C-N-CA	5.93	129.26	120.90
3	1-C	707	GLY	CA-C-O	-5.92	117.26	121.88
3	2-C	707	GLY	CA-C-O	-5.92	117.26	121.88
3	3-C	707	GLY	CA-C-O	-5.92	117.26	121.88
2	1-B	428	ASN	CA-C-N	5.92	128.49	120.38
2	1-B	428	ASN	C-N-CA	5.92	128.49	120.38
2	2-B	428	ASN	CA-C-N	5.92	128.49	120.38
2	2-B	428	ASN	C-N-CA	5.92	128.49	120.38
2	3-B	428	ASN	CA-C-N	5.92	128.49	120.38
2	3-B	428	ASN	C-N-CA	5.92	128.49	120.38
5	1-F	144	GLY	CA-C-N	5.92	128.80	120.28
5	1-F	144	GLY	C-N-CA	5.92	128.80	120.28
5	2-F	144	GLY	CA-C-N	5.92	128.80	120.28
5	2-F	144	GLY	C-N-CA	5.92	128.80	120.28
3	1-C	134	CYS	N-CA-C	-5.92	97.58	107.99
5	1-M	80	HIS	N-CA-C	5.92	123.41	110.80
3	2-C	134	CYS	N-CA-C	-5.92	97.58	107.99
5	2-M	80	HIS	N-CA-C	5.92	123.41	110.80
3	3-C	134	CYS	N-CA-C	-5.92	97.58	107.99
5	3-M	80	HIS	N-CA-C	5.92	123.41	110.80
2	2-B	559	GLY	N-CA-C	5.92	119.36	112.50
1	3-A	310	HIS	CA-C-N	5.92	128.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	310	HIS	C-N-CA	5.92	128.49	120.44
2	3-B	559	GLY	N-CA-C	5.92	119.36	112.50
1	2-A	75	ILE	N-CA-C	-5.91	99.23	107.80
1	3-A	75	ILE	N-CA-C	-5.91	99.23	107.80
2	1-B	258	ALA	CA-C-N	5.91	128.20	120.28
2	1-B	258	ALA	C-N-CA	5.91	128.20	120.28
2	2-B	258	ALA	CA-C-N	5.91	128.20	120.28
2	2-B	258	ALA	C-N-CA	5.91	128.20	120.28
2	3-B	258	ALA	CA-C-N	5.91	128.20	120.28
2	3-B	258	ALA	C-N-CA	5.91	128.20	120.28
6	1-K	861	SER	N-CA-C	-5.91	105.26	112.88
6	2-K	861	SER	N-CA-C	-5.91	105.26	112.88
6	3-K	861	SER	N-CA-C	-5.91	105.26	112.88
1	1-A	729	MET	N-CA-C	-5.91	107.31	114.75
6	1-G	434	THR	N-CA-C	5.91	117.39	111.07
1	2-A	729	MET	N-CA-C	-5.91	107.31	114.75
6	2-G	434	THR	N-CA-C	5.91	117.39	111.07
1	3-A	729	MET	N-CA-C	-5.91	107.31	114.75
6	1-G	168	LYS	N-CA-C	-5.91	103.82	111.02
7	1-Z	80	ILE	O-C-N	5.91	129.56	123.18
6	2-G	168	LYS	N-CA-C	-5.91	103.82	111.02
7	2-Z	80	ILE	O-C-N	5.91	129.56	123.18
6	1-K	54	LEU	CA-C-N	5.90	128.11	120.56
6	1-K	54	LEU	C-N-CA	5.90	128.11	120.56
6	1-K	661	PHE	N-CA-C	-5.90	98.90	108.52
6	2-K	54	LEU	CA-C-N	5.90	128.11	120.56
6	2-K	54	LEU	C-N-CA	5.90	128.11	120.56
6	2-K	661	PHE	N-CA-C	-5.90	98.90	108.52
1	3-A	744	GLU	CA-C-N	5.90	128.19	120.28
1	3-A	744	GLU	C-N-CA	5.90	128.19	120.28
5	1-F	55	THR	N-CA-C	-5.90	100.10	109.59
5	2-F	55	THR	N-CA-C	-5.90	100.10	109.59
6	1-K	686	ALA	CA-C-N	5.90	132.80	121.54
6	1-K	686	ALA	C-N-CA	5.90	132.80	121.54
6	2-K	686	ALA	CA-C-N	5.90	132.80	121.54
6	2-K	686	ALA	C-N-CA	5.90	132.80	121.54
2	1-B	360	LEU	CA-C-N	5.89	128.76	120.28
2	1-B	360	LEU	C-N-CA	5.89	128.76	120.28
2	2-B	360	LEU	CA-C-N	5.89	128.76	120.28
2	2-B	360	LEU	C-N-CA	5.89	128.76	120.28
2	3-B	360	LEU	CA-C-N	5.89	128.76	120.28
2	3-B	360	LEU	C-N-CA	5.89	128.76	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	306	LYS	CA-C-N	5.89	129.47	120.82
2	1-B	306	LYS	C-N-CA	5.89	129.47	120.82
6	1-G	686	ALA	CA-C-N	5.89	132.78	121.54
6	1-G	686	ALA	C-N-CA	5.89	132.78	121.54
5	1-R	113	GLU	N-CA-C	-5.89	100.90	110.20
2	2-B	306	LYS	CA-C-N	5.89	129.47	120.82
2	2-B	306	LYS	C-N-CA	5.89	129.47	120.82
6	2-G	686	ALA	CA-C-N	5.89	132.78	121.54
6	2-G	686	ALA	C-N-CA	5.89	132.78	121.54
5	2-R	113	GLU	N-CA-C	-5.89	100.90	110.20
7	2-Z	71	SER	N-CA-C	-5.89	100.37	109.14
2	3-B	306	LYS	CA-C-N	5.89	129.47	120.82
2	3-B	306	LYS	C-N-CA	5.89	129.47	120.82
5	3-R	113	GLU	N-CA-C	-5.89	100.90	110.20
3	1-C	782	GLN	N-CA-C	-5.88	98.27	110.80
3	2-C	782	GLN	N-CA-C	-5.88	98.27	110.80
3	3-C	782	GLN	N-CA-C	-5.88	98.27	110.80
2	2-B	889	ASN	N-CA-C	-5.88	103.34	111.28
2	3-B	889	ASN	N-CA-C	-5.88	103.34	111.28
5	1-F	115	GLU	CA-C-N	5.88	132.66	122.32
5	1-F	115	GLU	C-N-CA	5.88	132.66	122.32
1	2-A	330	GLY	CA-C-N	5.88	130.72	122.08
1	2-A	330	GLY	C-N-CA	5.88	130.72	122.08
5	2-F	115	GLU	CA-C-N	5.88	132.66	122.32
5	2-F	115	GLU	C-N-CA	5.88	132.66	122.32
1	3-A	330	GLY	CA-C-N	5.88	130.72	122.08
1	3-A	330	GLY	C-N-CA	5.88	130.72	122.08
3	1-C	44	HIS	CA-C-N	5.88	128.43	120.38
3	1-C	44	HIS	C-N-CA	5.88	128.43	120.38
7	1-L	126	ASP	CA-C-N	-5.88	111.95	120.29
7	1-L	126	ASP	C-N-CA	-5.88	111.95	120.29
3	2-C	44	HIS	CA-C-N	5.88	128.43	120.38
3	2-C	44	HIS	C-N-CA	5.88	128.43	120.38
7	2-L	126	ASP	CA-C-N	-5.88	111.95	120.29
7	2-L	126	ASP	C-N-CA	-5.88	111.95	120.29
3	3-C	44	HIS	CA-C-N	5.88	128.43	120.38
3	3-C	44	HIS	C-N-CA	5.88	128.43	120.38
7	3-L	126	ASP	CA-C-N	-5.88	111.95	120.29
7	3-L	126	ASP	C-N-CA	-5.88	111.95	120.29
6	1-G	135	THR	CA-C-O	5.88	126.78	120.55
6	2-G	135	THR	CA-C-O	5.88	126.78	120.55
2	1-B	401	THR	CA-C-N	5.87	128.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	401	THR	C-N-CA	5.87	128.15	120.28
2	1-B	421	MET	CA-C-N	5.87	128.08	120.44
2	1-B	421	MET	C-N-CA	5.87	128.08	120.44
6	1-G	120	TYR	CA-C-O	5.87	126.65	120.42
6	1-K	263	HIS	N-CA-C	-5.87	97.61	108.24
2	2-B	421	MET	CA-C-N	5.87	128.08	120.44
2	2-B	421	MET	C-N-CA	5.87	128.08	120.44
6	2-G	120	TYR	CA-C-O	5.87	126.65	120.42
6	2-K	263	HIS	N-CA-C	-5.87	97.61	108.24
2	3-B	401	THR	CA-C-N	5.87	128.15	120.28
2	3-B	401	THR	C-N-CA	5.87	128.15	120.28
2	3-B	421	MET	CA-C-N	5.87	128.08	120.44
2	3-B	421	MET	C-N-CA	5.87	128.08	120.44
6	1-G	283	LYS	CA-C-N	5.87	128.15	120.28
6	1-G	283	LYS	C-N-CA	5.87	128.15	120.28
6	1-K	631	LYS	N-CA-C	-5.87	99.22	108.14
6	2-G	283	LYS	CA-C-N	5.87	128.15	120.28
6	2-G	283	LYS	C-N-CA	5.87	128.15	120.28
6	2-K	154	SER	CA-C-N	5.87	128.76	120.42
6	2-K	154	SER	C-N-CA	5.87	128.76	120.42
6	2-K	631	LYS	N-CA-C	-5.87	99.22	108.14
6	1-G	62	GLY	CA-C-N	5.87	128.14	120.28
6	1-G	62	GLY	C-N-CA	5.87	128.14	120.28
6	2-G	62	GLY	CA-C-N	5.87	128.14	120.28
6	2-G	62	GLY	C-N-CA	5.87	128.14	120.28
6	1-G	181	ALA	N-CA-C	5.87	117.34	111.07
6	1-G	631	LYS	N-CA-C	-5.87	99.22	108.14
6	1-G	661	PHE	N-CA-C	-5.87	98.96	108.52
6	2-G	181	ALA	N-CA-C	5.87	117.34	111.07
6	2-G	631	LYS	N-CA-C	-5.87	99.22	108.14
6	2-G	661	PHE	N-CA-C	-5.87	98.96	108.52
7	2-Z	118	MET	N-CA-C	5.87	119.62	112.23
3	1-C	476	LEU	N-CA-C	-5.86	100.14	109.76
3	2-C	476	LEU	N-CA-C	-5.86	100.14	109.76
6	2-G	861	SER	N-CA-C	-5.86	105.32	112.88
3	3-C	476	LEU	N-CA-C	-5.86	100.14	109.76
6	3-G	861	SER	N-CA-C	-5.86	105.32	112.88
1	2-A	335	TYR	N-CA-C	-5.86	100.39	109.24
1	3-A	335	TYR	N-CA-C	-5.86	100.39	109.24
5	1-F	130	LEU	O-C-N	5.86	126.62	121.18
5	2-F	130	LEU	O-C-N	5.86	126.62	121.18
5	2-R	23	VAL	N-CA-C	-5.86	100.25	108.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-K	279	GLY	N-CA-C	-5.85	99.31	113.18
6	2-K	279	GLY	N-CA-C	-5.85	99.31	113.18
3	1-C	721	ARG	N-CA-C	5.85	117.66	111.28
3	2-C	721	ARG	N-CA-C	5.85	117.66	111.28
3	3-C	721	ARG	N-CA-C	5.85	117.66	111.28
3	1-C	154	ASP	CA-C-N	5.85	130.49	121.19
3	1-C	154	ASP	C-N-CA	5.85	130.49	121.19
3	2-C	154	ASP	CA-C-N	5.85	130.49	121.19
3	2-C	154	ASP	C-N-CA	5.85	130.49	121.19
3	3-C	154	ASP	CA-C-N	5.85	130.49	121.19
3	3-C	154	ASP	C-N-CA	5.85	130.49	121.19
3	1-C	152	PRO	CA-C-N	5.84	128.04	120.44
3	1-C	152	PRO	C-N-CA	5.84	128.04	120.44
3	2-C	152	PRO	CA-C-N	5.84	128.04	120.44
3	2-C	152	PRO	C-N-CA	5.84	128.04	120.44
3	3-C	152	PRO	CA-C-N	5.84	128.04	120.44
3	3-C	152	PRO	C-N-CA	5.84	128.04	120.44
5	1-R	83	ARG	CA-C-N	5.84	132.70	121.54
5	1-R	83	ARG	C-N-CA	5.84	132.70	121.54
1	2-A	47	PHE	N-CA-C	-5.84	99.13	109.06
5	2-R	83	ARG	CA-C-N	5.84	132.70	121.54
5	2-R	83	ARG	C-N-CA	5.84	132.70	121.54
1	3-A	47	PHE	N-CA-C	-5.84	99.13	109.06
2	1-B	369	GLU	N-CA-C	5.84	117.72	111.36
2	2-B	369	GLU	N-CA-C	5.84	117.72	111.36
6	2-K	95	MET	N-CA-C	5.84	119.66	112.54
2	3-B	369	GLU	N-CA-C	5.84	117.72	111.36
6	1-G	29	GLN	CA-C-N	5.83	129.93	120.60
6	1-G	29	GLN	C-N-CA	5.83	129.93	120.60
6	2-G	29	GLN	CA-C-N	5.83	129.93	120.60
6	2-G	29	GLN	C-N-CA	5.83	129.93	120.60
6	3-G	29	GLN	CA-C-N	5.83	129.93	120.60
6	3-G	29	GLN	C-N-CA	5.83	129.93	120.60
4	1-D	115	GLU	N-CA-C	-5.83	104.84	111.14
4	2-D	115	GLU	N-CA-C	-5.83	104.84	111.14
4	3-D	115	GLU	N-CA-C	-5.83	104.84	111.14
1	2-A	65	LEU	N-CA-C	-5.83	99.87	108.79
7	1-L	27	PHE	N-CA-C	-5.83	98.79	108.75
7	2-L	27	PHE	N-CA-C	-5.83	98.79	108.75
7	3-L	27	PHE	N-CA-C	-5.83	98.79	108.75
7	2-Z	140	GLN	CA-C-N	5.83	128.01	120.44
7	2-Z	140	GLN	C-N-CA	5.83	128.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-B	923	ASN	N-CA-C	-5.82	98.79	108.34
2	3-B	923	ASN	N-CA-C	-5.82	98.79	108.34
6	1-G	179	ASN	CA-C-O	5.82	126.93	120.82
6	2-G	179	ASN	CA-C-O	5.82	126.93	120.82
3	1-C	82	ARG	N-CA-C	-5.82	100.31	109.50
5	1-F	116	LEU	CA-C-N	5.82	132.65	121.54
5	1-F	116	LEU	C-N-CA	5.82	132.65	121.54
5	1-F	121	TRP	CA-C-N	5.82	131.20	123.00
5	1-F	121	TRP	C-N-CA	5.82	131.20	123.00
5	1-F	160	ALA	N-CA-C	-5.82	103.62	112.99
3	2-C	82	ARG	N-CA-C	-5.82	100.31	109.50
5	2-F	116	LEU	CA-C-N	5.82	132.65	121.54
5	2-F	116	LEU	C-N-CA	5.82	132.65	121.54
5	2-F	121	TRP	CA-C-N	5.82	131.20	123.00
5	2-F	121	TRP	C-N-CA	5.82	131.20	123.00
5	2-F	160	ALA	N-CA-C	-5.82	103.62	112.99
3	3-C	82	ARG	N-CA-C	-5.82	100.31	109.50
6	1-K	608	THR	CA-C-N	5.81	128.07	120.28
6	1-K	608	THR	C-N-CA	5.81	128.07	120.28
6	2-K	608	THR	CA-C-N	5.81	128.07	120.28
6	2-K	608	THR	C-N-CA	5.81	128.07	120.28
3	1-C	571	ASN	CA-C-N	-5.81	112.80	122.21
3	1-C	571	ASN	C-N-CA	-5.81	112.80	122.21
3	2-C	571	ASN	CA-C-N	-5.81	112.80	122.21
3	2-C	571	ASN	C-N-CA	-5.81	112.80	122.21
3	3-C	571	ASN	CA-C-N	-5.81	112.80	122.21
3	3-C	571	ASN	C-N-CA	-5.81	112.80	122.21
3	1-C	256	TRP	N-CA-C	-5.81	100.42	109.72
3	2-C	256	TRP	N-CA-C	-5.81	100.42	109.72
5	1-F	20	ILE	N-CA-C	-5.81	100.12	108.48
1	2-A	181	VAL	N-CA-C	-5.81	104.70	110.62
5	2-F	20	ILE	N-CA-C	-5.81	100.12	108.48
1	3-A	181	VAL	N-CA-C	-5.81	104.70	110.62
5	1-R	122	LEU	CA-C-O	5.80	126.67	120.46
5	2-R	122	LEU	CA-C-O	5.80	126.67	120.46
5	3-R	122	LEU	CA-C-O	5.80	126.67	120.46
6	1-G	843	ARG	N-CA-C	-5.80	98.96	108.76
6	2-G	843	ARG	N-CA-C	-5.80	98.96	108.76
6	3-G	843	ARG	N-CA-C	-5.80	98.96	108.76
2	1-B	129	GLU	N-CA-C	5.80	117.68	111.36
6	1-G	428	ASN	CA-C-N	5.80	129.34	120.82
6	1-G	428	ASN	C-N-CA	5.80	129.34	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-B	129	GLU	N-CA-C	5.80	117.68	111.36
6	2-G	428	ASN	CA-C-N	5.80	129.34	120.82
6	2-G	428	ASN	C-N-CA	5.80	129.34	120.82
2	3-B	129	GLU	N-CA-C	5.80	117.68	111.36
5	1-F	169	GLY	N-CA-C	-5.80	105.78	112.50
5	2-F	169	GLY	N-CA-C	-5.80	105.78	112.50
6	2-K	221	HIS	CA-C-N	5.80	132.77	121.41
6	2-K	221	HIS	C-N-CA	5.80	132.77	121.41
1	1-A	670	ASP	N-CA-C	-5.79	106.02	112.57
1	2-A	531	LYS	CA-C-N	5.79	131.71	121.80
1	2-A	531	LYS	C-N-CA	5.79	131.71	121.80
1	2-A	670	ASP	N-CA-C	-5.79	106.02	112.57
1	3-A	531	LYS	CA-C-N	5.79	131.71	121.80
1	3-A	531	LYS	C-N-CA	5.79	131.71	121.80
1	3-A	670	ASP	N-CA-C	-5.79	106.02	112.57
6	1-K	843	ARG	N-CA-C	-5.79	98.97	108.76
6	2-K	843	ARG	N-CA-C	-5.79	98.97	108.76
6	3-K	843	ARG	N-CA-C	-5.79	98.97	108.76
1	3-A	784	THR	N-CA-C	-5.79	99.93	108.79
1	1-A	577	ASN	N-CA-C	-5.79	98.47	110.80
1	2-A	577	ASN	N-CA-C	-5.79	98.47	110.80
2	2-B	849	THR	CA-C-O	-5.79	114.86	121.58
1	3-A	577	ASN	N-CA-C	-5.79	98.47	110.80
2	3-B	849	THR	CA-C-O	-5.79	114.86	121.58
6	1-G	293	GLN	CA-C-N	5.79	127.96	120.44
6	1-G	293	GLN	C-N-CA	5.79	127.96	120.44
6	2-G	293	GLN	CA-C-N	5.79	127.96	120.44
6	2-G	293	GLN	C-N-CA	5.79	127.96	120.44
3	2-C	801	LEU	CA-C-O	-5.78	114.81	122.44
1	2-A	120	TRP	N-CA-C	5.78	118.82	109.40
1	3-A	120	TRP	N-CA-C	5.78	118.82	109.40
2	1-B	384	ASN	N-CA-C	5.78	123.10	110.80
1	1-A	258	HIS	CA-C-N	5.77	127.06	119.84
1	1-A	258	HIS	C-N-CA	5.77	127.06	119.84
6	2-G	867	ASP	CA-C-N	5.77	127.83	120.56
6	2-G	867	ASP	C-N-CA	5.77	127.83	120.56
1	3-A	258	HIS	CA-C-N	5.77	127.06	119.84
1	3-A	258	HIS	C-N-CA	5.77	127.06	119.84
6	3-G	867	ASP	CA-C-N	5.77	127.83	120.56
6	3-G	867	ASP	C-N-CA	5.77	127.83	120.56
6	1-G	608	THR	CA-C-N	5.77	128.01	120.28
6	1-G	608	THR	C-N-CA	5.77	128.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	608	THR	CA-C-N	5.77	128.01	120.28
6	2-G	608	THR	C-N-CA	5.77	128.01	120.28
3	1-C	228	HIS	N-CA-C	5.77	123.08	110.80
3	1-C	533	CYS	CA-C-N	-5.77	114.97	123.05
3	1-C	533	CYS	C-N-CA	-5.77	114.97	123.05
3	2-C	228	HIS	N-CA-C	5.77	123.08	110.80
3	2-C	533	CYS	CA-C-N	-5.77	114.97	123.05
3	2-C	533	CYS	C-N-CA	-5.77	114.97	123.05
3	3-C	533	CYS	CA-C-N	-5.77	114.97	123.05
3	3-C	533	CYS	C-N-CA	-5.77	114.97	123.05
1	2-A	374	GLU	N-CA-C	-5.76	106.64	113.38
1	3-A	374	GLU	N-CA-C	-5.76	106.64	113.38
7	1-L	110	GLU	N-CA-C	-5.76	100.79	108.34
7	2-L	110	GLU	N-CA-C	-5.76	100.79	108.34
7	3-L	110	GLU	N-CA-C	-5.76	100.79	108.34
1	1-A	248	HIS	N-CA-C	-5.76	98.54	110.80
1	3-A	248	HIS	N-CA-C	-5.76	98.54	110.80
3	2-C	300	GLY	N-CA-C	5.75	121.58	111.57
3	3-C	300	GLY	N-CA-C	5.75	121.58	111.57
3	1-C	375	TYR	N-CA-C	5.75	117.90	108.52
2	2-B	916	PHE	N-CA-C	-5.75	104.93	112.41
2	3-B	916	PHE	N-CA-C	-5.75	104.93	112.41
3	3-C	375	TYR	N-CA-C	5.75	117.90	108.52
6	1-K	306	ALA	N-CA-C	-5.75	105.09	111.36
7	1-L	104	MET	N-CA-C	-5.75	104.92	111.07
6	2-K	306	ALA	N-CA-C	-5.75	105.09	111.36
7	2-L	104	MET	N-CA-C	-5.75	104.92	111.07
7	3-L	104	MET	N-CA-C	-5.75	104.92	111.07
1	3-A	796	GLN	CA-C-N	-5.75	114.46	120.38
1	3-A	796	GLN	C-N-CA	-5.75	114.46	120.38
2	1-B	512	ALA	N-CA-C	5.74	117.22	111.07
6	2-G	373	ASP	N-CA-C	-5.74	98.57	110.80
2	3-B	512	ALA	N-CA-C	5.74	117.22	111.07
3	1-C	261	TYR	N-CA-C	-5.74	105.58	112.58
3	2-C	261	TYR	N-CA-C	-5.74	105.58	112.58
6	1-G	675	GLU	N-CA-C	-5.74	100.58	109.24
6	2-G	675	GLU	N-CA-C	-5.74	100.58	109.24
5	2-R	62	SER	CA-C-N	5.74	130.28	122.19
5	2-R	62	SER	C-N-CA	5.74	130.28	122.19
6	1-K	26	ALA	CA-C-N	5.73	128.32	120.46
6	1-K	26	ALA	C-N-CA	5.73	128.32	120.46
6	2-K	26	ALA	CA-C-N	5.73	128.32	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	26	ALA	C-N-CA	5.73	128.32	120.46
1	2-A	450	VAL	CA-C-N	5.73	126.06	119.93
1	2-A	450	VAL	C-N-CA	5.73	126.06	119.93
5	2-R	26	ASP	N-CA-C	-5.73	100.48	109.25
1	3-A	450	VAL	CA-C-N	5.73	126.06	119.93
1	3-A	450	VAL	C-N-CA	5.73	126.06	119.93
5	1-R	117	ARG	N-CA-C	-5.73	105.55	112.54
6	1-K	867	ASP	CA-C-N	5.73	127.78	120.56
6	1-K	867	ASP	C-N-CA	5.73	127.78	120.56
5	2-R	117	ARG	N-CA-C	-5.73	105.55	112.54
6	2-K	867	ASP	CA-C-N	5.73	127.78	120.56
6	2-K	867	ASP	C-N-CA	5.73	127.78	120.56
5	3-R	117	ARG	N-CA-C	-5.73	105.55	112.54
6	3-K	867	ASP	CA-C-N	5.73	127.78	120.56
6	3-K	867	ASP	C-N-CA	5.73	127.78	120.56
1	2-A	638	ALA	N-CA-C	-5.73	105.04	111.28
1	3-A	638	ALA	N-CA-C	-5.73	105.04	111.28
3	1-C	504	GLY	CA-C-N	5.73	130.29	123.19
3	1-C	504	GLY	C-N-CA	5.73	130.29	123.19
3	1-C	508	ASP	N-CA-C	-5.73	105.95	113.17
2	2-B	770	ASN	CA-C-N	5.73	132.48	121.54
2	2-B	770	ASN	C-N-CA	5.73	132.48	121.54
3	2-C	504	GLY	CA-C-N	5.73	130.29	123.19
3	2-C	504	GLY	C-N-CA	5.73	130.29	123.19
3	2-C	508	ASP	N-CA-C	-5.73	105.95	113.17
2	3-B	770	ASN	CA-C-N	5.73	132.48	121.54
2	3-B	770	ASN	C-N-CA	5.73	132.48	121.54
3	3-C	504	GLY	CA-C-N	5.73	130.29	123.19
3	3-C	504	GLY	C-N-CA	5.73	130.29	123.19
3	3-C	508	ASP	N-CA-C	-5.73	105.95	113.17
7	1-Z	83	SER	N-CA-C	-5.72	98.39	108.23
1	2-A	681	ALA	N-CA-C	-5.72	104.95	111.07
7	2-Z	83	SER	N-CA-C	-5.72	98.39	108.23
1	3-A	681	ALA	N-CA-C	-5.72	104.95	111.07
2	2-B	937	ALA	N-CA-C	-5.72	98.62	110.80
2	3-B	937	ALA	N-CA-C	-5.72	98.62	110.80
6	1-K	675	GLU	N-CA-C	-5.72	100.61	109.24
6	2-K	675	GLU	N-CA-C	-5.72	100.61	109.24
3	1-C	567	ILE	CA-C-N	5.71	125.57	119.28
3	1-C	567	ILE	C-N-CA	5.71	125.57	119.28
3	2-C	567	ILE	CA-C-N	5.71	125.57	119.28
3	2-C	567	ILE	C-N-CA	5.71	125.57	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-C	567	ILE	CA-C-N	5.71	125.57	119.28
3	3-C	567	ILE	C-N-CA	5.71	125.57	119.28
1	1-A	554	THR	CA-C-N	5.71	132.44	121.54
1	1-A	554	THR	C-N-CA	5.71	132.44	121.54
1	2-A	554	THR	CA-C-N	5.71	132.44	121.54
1	2-A	554	THR	C-N-CA	5.71	132.44	121.54
1	3-A	554	THR	CA-C-N	5.71	132.44	121.54
1	3-A	554	THR	C-N-CA	5.71	132.44	121.54
2	1-B	130	PHE	CA-C-N	5.71	127.75	120.56
2	1-B	130	PHE	C-N-CA	5.71	127.75	120.56
2	2-B	130	PHE	CA-C-N	5.71	127.75	120.56
2	2-B	130	PHE	C-N-CA	5.71	127.75	120.56
2	3-B	130	PHE	CA-C-N	5.71	127.75	120.56
2	3-B	130	PHE	C-N-CA	5.71	127.75	120.56
6	1-K	290	SER	CA-C-O	5.70	126.81	120.82
1	2-A	106	PRO	CA-C-N	5.70	132.33	122.64
1	2-A	106	PRO	C-N-CA	5.70	132.33	122.64
6	2-K	290	SER	CA-C-O	5.70	126.81	120.82
1	3-A	106	PRO	CA-C-N	5.70	132.33	122.64
1	3-A	106	PRO	C-N-CA	5.70	132.33	122.64
3	2-C	456	GLU	CA-C-O	-5.70	113.71	120.43
3	3-C	456	GLU	CA-C-O	-5.70	113.71	120.43
2	1-B	110	LEU	CA-C-N	5.69	132.41	121.54
2	1-B	110	LEU	C-N-CA	5.69	132.41	121.54
3	1-C	529	TRP	N-CA-C	-5.69	99.96	109.24
2	2-B	110	LEU	CA-C-N	5.69	132.41	121.54
2	2-B	110	LEU	C-N-CA	5.69	132.41	121.54
2	3-B	110	LEU	CA-C-N	5.69	132.41	121.54
2	3-B	110	LEU	C-N-CA	5.69	132.41	121.54
3	3-C	529	TRP	N-CA-C	-5.69	99.96	109.24
1	1-A	549	ILE	CA-C-O	-5.69	114.47	120.39
1	2-A	549	ILE	CA-C-O	-5.69	114.47	120.39
1	3-A	549	ILE	CA-C-O	-5.69	114.47	120.39
3	1-C	784	ALA	N-CA-C	-5.69	105.08	111.28
6	1-G	103	ILE	N-CA-C	5.69	119.02	111.17
3	2-C	784	ALA	N-CA-C	-5.69	105.08	111.28
6	2-G	103	ILE	N-CA-C	5.69	119.02	111.17
3	3-C	784	ALA	N-CA-C	-5.69	105.08	111.28
3	1-C	768	ARG	N-CA-C	5.68	117.15	111.07
3	2-C	768	ARG	N-CA-C	5.68	117.15	111.07
3	3-C	768	ARG	N-CA-C	5.68	117.15	111.07
2	1-B	327	PRO	N-CA-C	-5.68	106.60	114.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-B	327	PRO	N-CA-C	-5.68	106.60	114.27
6	2-K	208	ARG	N-CA-C	5.68	117.28	111.14
2	3-B	327	PRO	N-CA-C	-5.68	106.60	114.27
3	1-C	368	VAL	CA-C-O	5.68	126.35	120.39
3	1-C	522	GLU	N-CA-C	5.68	118.03	109.23
2	2-B	799	ASN	CA-C-N	-5.68	115.04	122.94
2	2-B	799	ASN	C-N-CA	-5.68	115.04	122.94
2	3-B	799	ASN	CA-C-N	-5.68	115.04	122.94
2	3-B	799	ASN	C-N-CA	-5.68	115.04	122.94
3	3-C	368	VAL	CA-C-O	5.68	126.35	120.39
3	3-C	522	GLU	N-CA-C	5.68	118.03	109.23
2	1-B	127	PRO	CA-C-N	5.68	132.38	121.54
2	1-B	127	PRO	C-N-CA	5.68	132.38	121.54
6	1-G	104	ILE	N-CA-C	5.68	116.41	110.62
6	1-G	692	TYR	CA-C-N	-5.68	117.00	123.25
6	1-G	692	TYR	C-N-CA	-5.68	117.00	123.25
2	2-B	127	PRO	CA-C-N	5.68	132.38	121.54
2	2-B	127	PRO	C-N-CA	5.68	132.38	121.54
6	2-G	104	ILE	N-CA-C	5.68	116.41	110.62
6	2-G	692	TYR	CA-C-N	-5.68	117.00	123.25
6	2-G	692	TYR	C-N-CA	-5.68	117.00	123.25
2	3-B	127	PRO	CA-C-N	5.68	132.38	121.54
2	3-B	127	PRO	C-N-CA	5.68	132.38	121.54
6	1-K	830	LEU	N-CA-C	5.67	118.46	109.50
1	2-A	12	VAL	N-CA-C	5.67	115.77	107.37
6	2-K	830	LEU	N-CA-C	5.67	118.46	109.50
1	3-A	12	VAL	N-CA-C	5.67	115.77	107.37
3	1-C	268	ASN	N-CA-C	5.67	117.94	108.02
3	2-C	268	ASN	N-CA-C	5.67	117.94	108.02
1	2-A	180	ASP	N-CA-C	-5.67	106.72	113.97
1	3-A	180	ASP	N-CA-C	-5.67	106.72	113.97
6	2-K	135	THR	N-CA-C	5.67	122.87	110.80
2	2-B	809	THR	CA-C-N	-5.67	113.70	122.09
2	2-B	809	THR	C-N-CA	-5.67	113.70	122.09
2	3-B	809	THR	CA-C-N	-5.67	113.70	122.09
2	3-B	809	THR	C-N-CA	-5.67	113.70	122.09
2	1-B	865	GLU	N-CA-C	5.66	122.86	110.80
2	2-B	865	GLU	N-CA-C	5.66	122.86	110.80
2	3-B	865	GLU	N-CA-C	5.66	122.86	110.80
2	1-B	447	ASP	N-CA-C	5.66	122.86	110.80
2	3-B	447	ASP	N-CA-C	5.66	122.86	110.80
6	1-G	325	CYS	N-CA-C	5.66	117.45	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	325	CYS	N-CA-C	5.66	117.45	111.28
7	1-L	19	LEU	CA-C-O	-5.66	114.72	121.11
5	2-R	46	ILE	N-CA-C	-5.66	103.76	109.02
7	2-L	19	LEU	CA-C-O	-5.66	114.72	121.11
7	3-L	19	LEU	CA-C-O	-5.66	114.72	121.11
3	1-C	227	GLY	CA-C-N	5.66	132.34	121.54
3	1-C	227	GLY	C-N-CA	5.66	132.34	121.54
3	2-C	227	GLY	CA-C-N	5.66	132.34	121.54
3	2-C	227	GLY	C-N-CA	5.66	132.34	121.54
2	2-B	926	ILE	O-C-N	-5.65	117.10	123.20
2	3-B	926	ILE	O-C-N	-5.65	117.10	123.20
2	1-B	474	LEU	N-CA-C	5.65	117.11	111.07
2	3-B	474	LEU	N-CA-C	5.65	117.11	111.07
6	1-G	830	LEU	N-CA-C	5.64	118.41	109.50
6	2-G	830	LEU	N-CA-C	5.64	118.41	109.50
1	3-A	803	PRO	CA-C-N	5.64	132.31	121.54
1	3-A	803	PRO	C-N-CA	5.64	132.31	121.54
6	3-G	830	LEU	N-CA-C	5.64	118.41	109.50
3	1-C	840	LYS	CA-C-N	5.64	126.36	119.99
3	1-C	840	LYS	C-N-CA	5.64	126.36	119.99
4	1-D	49	VAL	N-CA-C	-5.64	100.36	108.42
6	1-G	711	ALA	N-CA-C	-5.64	100.51	109.59
3	2-C	840	LYS	CA-C-N	5.64	126.36	119.99
3	2-C	840	LYS	C-N-CA	5.64	126.36	119.99
4	2-D	49	VAL	N-CA-C	-5.64	100.36	108.42
6	2-G	711	ALA	N-CA-C	-5.64	100.51	109.59
3	3-C	840	LYS	CA-C-N	5.64	126.36	119.99
3	3-C	840	LYS	C-N-CA	5.64	126.36	119.99
4	3-D	49	VAL	N-CA-C	-5.64	100.36	108.42
1	2-A	650	SER	CA-C-N	5.64	127.83	120.28
1	2-A	650	SER	C-N-CA	5.64	127.83	120.28
1	3-A	650	SER	CA-C-N	5.64	127.83	120.28
1	3-A	650	SER	C-N-CA	5.64	127.83	120.28
5	1-M	124	PHE	CA-C-N	5.64	129.92	122.42
5	1-M	124	PHE	C-N-CA	5.64	129.92	122.42
5	2-M	124	PHE	CA-C-N	5.64	129.92	122.42
5	2-M	124	PHE	C-N-CA	5.64	129.92	122.42
5	3-M	124	PHE	CA-C-N	5.64	129.92	122.42
5	3-M	124	PHE	C-N-CA	5.64	129.92	122.42
1	1-A	245	CYS	O-C-N	5.63	129.64	123.27
1	3-A	245	CYS	O-C-N	5.63	129.64	123.27
2	2-B	791	THR	N-CA-C	-5.63	100.80	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-B	791	THR	N-CA-C	-5.63	100.80	109.52
6	1-G	358	ASP	CA-C-N	5.62	127.74	120.44
6	1-G	358	ASP	C-N-CA	5.62	127.74	120.44
6	2-G	358	ASP	CA-C-N	5.62	127.74	120.44
6	2-G	358	ASP	C-N-CA	5.62	127.74	120.44
4	1-D	66	MET	N-CA-C	-5.62	100.55	109.59
5	1-F	34	LEU	N-CA-C	5.62	117.40	111.28
4	2-D	66	MET	N-CA-C	-5.62	100.55	109.59
5	2-F	34	LEU	N-CA-C	5.62	117.40	111.28
4	3-D	66	MET	N-CA-C	-5.62	100.55	109.59
1	2-A	146	SER	N-CA-C	-5.61	101.34	109.59
1	3-A	146	SER	N-CA-C	-5.61	101.34	109.59
3	1-C	252	THR	N-CA-C	-5.61	100.56	109.59
3	2-C	252	THR	N-CA-C	-5.61	100.56	109.59
6	2-K	81	ASP	CA-C-N	5.61	125.28	119.05
6	2-K	81	ASP	C-N-CA	5.61	125.28	119.05
7	1-L	84	TYR	N-CA-C	-5.61	98.85	110.80
7	2-L	84	TYR	N-CA-C	-5.61	98.85	110.80
7	3-L	84	TYR	N-CA-C	-5.61	98.85	110.80
6	1-G	827	THR	CA-C-N	-5.61	115.26	123.00
6	1-G	827	THR	C-N-CA	-5.61	115.26	123.00
6	2-G	827	THR	CA-C-N	-5.61	115.26	123.00
6	2-G	827	THR	C-N-CA	-5.61	115.26	123.00
6	3-G	827	THR	CA-C-N	-5.61	115.26	123.00
6	3-G	827	THR	C-N-CA	-5.61	115.26	123.00
6	1-K	765	GLN	N-CA-C	-5.60	100.05	109.07
7	2-Z	70	LYS	CA-C-N	5.60	131.32	122.36
7	2-Z	70	LYS	C-N-CA	5.60	131.32	122.36
6	2-K	765	GLN	N-CA-C	-5.60	100.05	109.07
6	1-G	139	ALA	N-CA-C	5.60	122.73	110.80
6	1-G	765	GLN	N-CA-C	-5.60	100.05	109.07
1	2-A	184	ILE	CA-C-N	5.60	132.24	121.54
1	2-A	184	ILE	C-N-CA	5.60	132.24	121.54
6	2-G	139	ALA	N-CA-C	5.60	122.73	110.80
6	2-G	765	GLN	N-CA-C	-5.60	100.05	109.07
1	3-A	184	ILE	CA-C-N	5.60	132.24	121.54
1	3-A	184	ILE	C-N-CA	5.60	132.24	121.54
1	1-A	586	ARG	O-C-N	5.60	127.76	121.32
3	1-C	187	GLY	N-CA-C	-5.60	102.10	110.38
4	1-D	12	ALA	N-CA-C	5.60	122.72	110.80
6	1-G	120	TYR	N-CA-C	5.60	117.46	111.36
7	1-L	68	VAL	N-CA-C	5.60	117.47	108.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	586	ARG	O-C-N	5.60	127.76	121.32
3	2-C	187	GLY	N-CA-C	-5.60	102.10	110.38
4	2-D	12	ALA	N-CA-C	5.60	122.72	110.80
6	2-G	120	TYR	N-CA-C	5.60	117.46	111.36
7	2-L	68	VAL	N-CA-C	5.60	117.47	108.85
1	3-A	586	ARG	O-C-N	5.60	127.76	121.32
3	3-C	187	GLY	N-CA-C	-5.60	102.10	110.38
7	3-L	68	VAL	N-CA-C	5.60	117.47	108.85
6	1-K	827	THR	CA-C-N	-5.60	115.28	123.00
6	1-K	827	THR	C-N-CA	-5.60	115.28	123.00
6	2-K	827	THR	CA-C-N	-5.60	115.28	123.00
6	2-K	827	THR	C-N-CA	-5.60	115.28	123.00
2	1-B	254	PRO	CA-C-N	5.59	132.23	121.54
2	1-B	254	PRO	C-N-CA	5.59	132.23	121.54
2	2-B	254	PRO	CA-C-N	5.59	132.23	121.54
2	2-B	254	PRO	C-N-CA	5.59	132.23	121.54
2	3-B	254	PRO	CA-C-N	5.59	132.23	121.54
2	3-B	254	PRO	C-N-CA	5.59	132.23	121.54
1	1-A	478	GLN	CA-C-N	5.59	132.22	121.54
1	1-A	478	GLN	C-N-CA	5.59	132.22	121.54
6	1-G	312	ASN	CA-C-N	5.59	129.72	120.94
6	1-G	312	ASN	C-N-CA	5.59	129.72	120.94
1	2-A	478	GLN	CA-C-N	5.59	132.22	121.54
1	2-A	478	GLN	C-N-CA	5.59	132.22	121.54
6	2-G	312	ASN	CA-C-N	5.59	129.72	120.94
6	2-G	312	ASN	C-N-CA	5.59	129.72	120.94
1	3-A	478	GLN	CA-C-N	5.59	132.22	121.54
1	3-A	478	GLN	C-N-CA	5.59	132.22	121.54
3	1-C	412	VAL	CA-C-O	-5.59	114.48	120.85
1	2-A	37	ASP	N-CA-C	-5.59	97.36	107.75
3	2-C	412	VAL	CA-C-O	-5.59	114.48	120.85
3	2-C	461	ILE	CA-C-N	5.59	132.21	121.54
3	2-C	461	ILE	C-N-CA	5.59	132.21	121.54
1	3-A	37	ASP	N-CA-C	-5.59	97.36	107.75
3	3-C	412	VAL	CA-C-O	-5.59	114.48	120.85
3	3-C	461	ILE	CA-C-N	5.59	132.21	121.54
3	3-C	461	ILE	C-N-CA	5.59	132.21	121.54
6	1-G	499	GLY	N-CA-C	-5.59	105.73	112.49
6	2-G	499	GLY	N-CA-C	-5.59	105.73	112.49
1	2-A	124	SER	CA-C-N	5.58	132.21	121.54
1	2-A	124	SER	C-N-CA	5.58	132.21	121.54
1	3-A	124	SER	CA-C-N	5.58	132.21	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	124	SER	C-N-CA	5.58	132.21	121.54
6	2-K	176	ARG	CA-C-N	5.58	134.59	121.52
6	2-K	176	ARG	C-N-CA	5.58	134.59	121.52
6	2-K	190	ILE	N-CA-C	5.58	115.78	110.53
6	2-K	193	GLN	N-CA-C	-5.58	105.19	111.28
6	1-K	647	VAL	N-CA-C	5.58	115.90	107.75
6	2-K	647	VAL	N-CA-C	5.58	115.90	107.75
1	2-A	611	VAL	CA-C-O	5.58	126.77	120.85
1	3-A	611	VAL	CA-C-O	5.58	126.77	120.85
1	2-A	38	TYR	N-CA-C	5.58	118.12	111.71
1	3-A	38	TYR	N-CA-C	5.58	118.12	111.71
2	1-B	515	LEU	N-CA-C	-5.58	101.03	108.34
6	1-G	251	LEU	N-CA-C	-5.58	105.10	111.07
6	2-G	251	LEU	N-CA-C	-5.58	105.10	111.07
2	3-B	515	LEU	N-CA-C	-5.58	101.03	108.34
3	1-C	367	VAL	N-CA-C	-5.57	100.42	108.89
1	2-A	107	TRP	N-CA-C	5.57	119.14	110.17
1	3-A	107	TRP	N-CA-C	5.57	119.14	110.17
3	3-C	367	VAL	N-CA-C	-5.57	100.42	108.89
1	2-A	44	ILE	N-CA-C	-5.57	105.42	110.82
1	3-A	44	ILE	N-CA-C	-5.57	105.42	110.82
2	2-B	842	MET	CA-C-O	5.57	126.45	120.55
6	2-G	379	VAL	CA-C-O	-5.57	115.16	120.95
2	3-B	842	MET	CA-C-O	5.57	126.45	120.55
2	1-B	448	ASN	CA-C-O	5.56	126.43	120.70
6	1-G	118	ASP	CA-C-N	5.56	127.67	120.44
6	1-G	118	ASP	C-N-CA	5.56	127.67	120.44
6	2-G	118	ASP	CA-C-N	5.56	127.67	120.44
6	2-G	118	ASP	C-N-CA	5.56	127.67	120.44
2	3-B	448	ASN	CA-C-O	5.56	126.43	120.70
1	2-A	274	ARG	N-CA-C	-5.56	100.82	109.72
1	3-A	274	ARG	N-CA-C	-5.56	100.82	109.72
3	1-C	818	LEU	CA-C-O	-5.56	114.53	120.42
3	2-C	818	LEU	CA-C-O	-5.56	114.53	120.42
6	2-G	382	ALA	N-CA-C	-5.56	105.12	111.07
3	3-C	818	LEU	CA-C-O	-5.56	114.53	120.42
4	1-D	111	PHE	N-CA-C	-5.56	105.22	111.28
4	2-D	111	PHE	N-CA-C	-5.56	105.22	111.28
4	3-D	111	PHE	N-CA-C	-5.56	105.22	111.28
3	1-C	444	VAL	CA-C-N	5.55	130.29	122.46
3	1-C	444	VAL	C-N-CA	5.55	130.29	122.46
3	1-C	828	THR	CA-C-N	5.55	126.33	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	828	THR	C-N-CA	5.55	126.33	120.11
6	1-G	610	GLN	N-CA-C	-5.55	105.23	111.28
3	2-C	444	VAL	CA-C-N	5.55	130.29	122.46
3	2-C	444	VAL	C-N-CA	5.55	130.29	122.46
3	2-C	828	THR	CA-C-N	5.55	126.33	120.11
3	2-C	828	THR	C-N-CA	5.55	126.33	120.11
6	2-G	610	GLN	N-CA-C	-5.55	105.23	111.28
3	3-C	444	VAL	CA-C-N	5.55	130.29	122.46
3	3-C	444	VAL	C-N-CA	5.55	130.29	122.46
3	3-C	828	THR	CA-C-N	5.55	126.33	120.11
3	3-C	828	THR	C-N-CA	5.55	126.33	120.11
6	1-K	610	GLN	N-CA-C	-5.55	105.23	111.28
1	2-A	173	SER	CA-C-O	-5.55	114.98	120.26
6	2-K	610	GLN	N-CA-C	-5.55	105.23	111.28
1	3-A	173	SER	CA-C-O	-5.55	114.98	120.26
6	1-G	612	ILE	N-CA-C	-5.55	104.96	110.62
6	2-G	612	ILE	N-CA-C	-5.55	104.96	110.62
2	1-B	324	LYS	CA-C-N	5.55	130.42	122.21
2	1-B	324	LYS	C-N-CA	5.55	130.42	122.21
2	2-B	324	LYS	CA-C-N	5.55	130.42	122.21
2	2-B	324	LYS	C-N-CA	5.55	130.42	122.21
2	3-B	324	LYS	CA-C-N	5.55	130.42	122.21
2	3-B	324	LYS	C-N-CA	5.55	130.42	122.21
4	1-D	13	GLY	N-CA-C	-5.55	107.98	115.36
4	2-D	13	GLY	N-CA-C	-5.55	107.98	115.36
3	1-C	238	HIS	CA-C-O	-5.54	114.83	119.76
3	2-C	238	HIS	CA-C-O	-5.54	114.83	119.76
2	1-B	121	ARG	N-CA-C	-5.54	105.24	111.28
7	1-L	61	LEU	CA-C-O	-5.54	114.38	120.36
2	2-B	121	ARG	N-CA-C	-5.54	105.24	111.28
7	2-L	61	LEU	CA-C-O	-5.54	114.38	120.36
1	3-A	769	GLU	N-CA-C	5.54	117.00	111.07
2	3-B	121	ARG	N-CA-C	-5.54	105.24	111.28
7	3-L	61	LEU	CA-C-O	-5.54	114.38	120.36
2	1-B	535	THR	CA-C-N	5.54	127.64	120.44
2	1-B	535	THR	C-N-CA	5.54	127.64	120.44
1	2-A	452	ASN	N-CA-C	-5.54	99.00	110.80
1	3-A	452	ASN	N-CA-C	-5.54	99.00	110.80
2	3-B	535	THR	CA-C-N	5.54	127.64	120.44
2	3-B	535	THR	C-N-CA	5.54	127.64	120.44
3	1-C	432	SER	N-CA-C	-5.54	100.91	108.38
3	2-C	432	SER	N-CA-C	-5.54	100.91	108.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	149	VAL	CA-C-N	-5.54	114.39	122.19
6	2-K	149	VAL	C-N-CA	-5.54	114.39	122.19
1	2-A	372	PRO	CA-C-O	-5.53	115.29	121.32
1	3-A	372	PRO	CA-C-O	-5.53	115.29	121.32
2	1-B	103	THR	CA-C-N	5.53	135.29	121.80
2	1-B	103	THR	C-N-CA	5.53	135.29	121.80
2	2-B	103	THR	CA-C-N	5.53	135.29	121.80
2	2-B	103	THR	C-N-CA	5.53	135.29	121.80
2	3-B	103	THR	CA-C-N	5.53	135.29	121.80
2	3-B	103	THR	C-N-CA	5.53	135.29	121.80
2	2-B	826	ALA	CA-C-N	5.53	132.10	121.54
2	2-B	826	ALA	C-N-CA	5.53	132.10	121.54
1	3-A	763	ALA	N-CA-C	5.53	117.31	111.28
2	3-B	826	ALA	CA-C-N	5.53	132.10	121.54
2	3-B	826	ALA	C-N-CA	5.53	132.10	121.54
2	2-B	834	LEU	CA-C-N	5.53	131.76	122.87
2	2-B	834	LEU	C-N-CA	5.53	131.76	122.87
2	3-B	834	LEU	CA-C-N	5.53	131.76	122.87
2	3-B	834	LEU	C-N-CA	5.53	131.76	122.87
5	1-R	100	ILE	N-CA-C	-5.52	105.34	110.53
7	1-Z	80	ILE	CA-C-N	5.52	132.24	121.41
7	1-Z	80	ILE	C-N-CA	5.52	132.24	121.41
5	2-R	100	ILE	N-CA-C	-5.52	105.34	110.53
7	2-Z	80	ILE	CA-C-N	5.52	132.24	121.41
7	2-Z	80	ILE	C-N-CA	5.52	132.24	121.41
5	3-R	100	ILE	N-CA-C	-5.52	105.34	110.53
2	1-B	437	GLU	CA-C-N	5.52	128.00	120.54
2	1-B	437	GLU	C-N-CA	5.52	128.00	120.54
6	1-G	457	HIS	N-CA-C	-5.52	105.16	111.07
6	2-G	457	HIS	N-CA-C	-5.52	105.16	111.07
5	2-R	35	TYR	N-CA-C	5.52	119.74	112.89
2	3-B	437	GLU	CA-C-N	5.52	128.00	120.54
2	3-B	437	GLU	C-N-CA	5.52	128.00	120.54
6	1-G	546	TYR	N-CA-C	5.52	116.98	111.07
6	2-G	546	TYR	N-CA-C	5.52	116.98	111.07
6	2-K	234	ARG	CA-C-O	5.52	126.40	120.55
3	1-C	663	GLU	N-CA-C	-5.51	101.49	109.59
3	2-C	663	GLU	N-CA-C	-5.51	101.49	109.59
3	3-C	663	GLU	N-CA-C	-5.51	101.49	109.59
6	1-G	259	LEU	CA-C-O	-5.51	115.03	120.82
6	2-G	259	LEU	CA-C-O	-5.51	115.03	120.82
1	3-A	223	GLY	N-CA-C	-5.51	100.71	111.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-G	400	PHE	CA-C-N	5.51	127.66	120.28
6	1-G	400	PHE	C-N-CA	5.51	127.66	120.28
6	2-G	400	PHE	CA-C-N	5.51	127.66	120.28
6	2-G	400	PHE	C-N-CA	5.51	127.66	120.28
4	1-D	21	PHE	N-CA-C	-5.50	104.68	111.40
4	2-D	21	PHE	N-CA-C	-5.50	104.68	111.40
4	3-D	21	PHE	N-CA-C	-5.50	104.68	111.40
7	1-Z	20	ASP	N-CA-C	-5.50	103.64	110.41
1	2-A	33	ILE	N-CA-C	-5.50	100.56	108.48
7	2-Z	20	ASP	N-CA-C	-5.50	103.64	110.41
1	3-A	33	ILE	N-CA-C	-5.50	100.56	108.48
7	3-Z	20	ASP	N-CA-C	-5.50	103.64	110.41
2	1-B	360	LEU	CA-C-O	5.50	126.31	120.10
3	1-C	203	ILE	N-CA-C	-5.50	99.90	108.86
2	2-B	360	LEU	CA-C-O	5.50	126.31	120.10
3	2-C	203	ILE	N-CA-C	-5.50	99.90	108.86
2	3-B	360	LEU	CA-C-O	5.50	126.31	120.10
3	1-C	534	PHE	CA-C-O	5.49	126.36	120.32
6	1-G	142	ARG	N-CA-C	-5.49	105.21	111.14
3	2-C	534	PHE	CA-C-O	5.49	126.36	120.32
6	2-G	142	ARG	N-CA-C	-5.49	105.21	111.14
3	3-C	534	PHE	CA-C-O	5.49	126.36	120.32
6	1-G	825	THR	CA-C-O	-5.49	115.03	121.46
6	2-G	825	THR	CA-C-O	-5.49	115.03	121.46
6	3-G	825	THR	CA-C-O	-5.49	115.03	121.46
6	1-K	790	THR	CA-C-N	5.49	130.48	122.85
6	1-K	790	THR	C-N-CA	5.49	130.48	122.85
6	2-K	790	THR	CA-C-N	5.49	130.48	122.85
6	2-K	790	THR	C-N-CA	5.49	130.48	122.85
6	3-K	790	THR	CA-C-N	5.49	130.48	122.85
6	3-K	790	THR	C-N-CA	5.49	130.48	122.85
3	1-C	222	VAL	CA-C-N	-5.49	112.42	121.80
3	1-C	222	VAL	C-N-CA	-5.49	112.42	121.80
6	1-G	463	GLY	N-CA-C	5.49	123.54	112.34
1	2-A	180	ASP	CA-C-N	5.49	127.98	120.46
1	2-A	180	ASP	C-N-CA	5.49	127.98	120.46
3	2-C	222	VAL	CA-C-N	-5.49	112.42	121.80
3	2-C	222	VAL	C-N-CA	-5.49	112.42	121.80
6	2-G	463	GLY	N-CA-C	5.49	123.54	112.34
1	3-A	180	ASP	CA-C-N	5.49	127.98	120.46
1	3-A	180	ASP	C-N-CA	5.49	127.98	120.46
6	1-G	443	ILE	N-CA-C	-5.49	104.60	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	443	ILE	N-CA-C	-5.49	104.60	110.36
1	1-A	261	GLN	CA-C-N	5.49	132.02	121.54
1	1-A	261	GLN	C-N-CA	5.49	132.02	121.54
1	2-A	167	LEU	N-CA-C	-5.49	99.11	110.80
1	2-A	261	GLN	C-N-CA	5.49	132.02	121.54
2	2-B	868	VAL	N-CA-C	-5.49	100.39	108.23
1	3-A	167	LEU	N-CA-C	-5.49	99.11	110.80
1	3-A	261	GLN	CA-C-N	5.49	132.02	121.54
1	3-A	261	GLN	C-N-CA	5.49	132.02	121.54
2	3-B	868	VAL	N-CA-C	-5.49	100.39	108.23
6	1-K	612	ILE	N-CA-C	-5.48	105.03	110.62
6	2-K	612	ILE	N-CA-C	-5.48	105.03	110.62
6	1-K	719	ALA	N-CA-C	5.48	120.89	113.21
6	1-K	825	THR	CA-C-O	-5.48	115.05	121.46
6	2-K	719	ALA	N-CA-C	5.48	120.89	113.21
6	2-K	825	THR	CA-C-O	-5.48	115.05	121.46
6	3-K	719	ALA	N-CA-C	5.48	120.89	113.21
3	1-C	100	ASP	N-CA-C	-5.48	101.08	109.41
3	2-C	100	ASP	N-CA-C	-5.48	101.08	109.41
3	3-C	100	ASP	N-CA-C	-5.48	101.08	109.41
6	1-K	771	ASN	CA-C-N	-5.48	112.99	120.44
6	1-K	771	ASN	C-N-CA	-5.48	112.99	120.44
7	2-Z	70	LYS	N-CA-C	-5.48	101.18	108.74
6	2-K	771	ASN	CA-C-N	-5.48	112.99	120.44
6	2-K	771	ASN	C-N-CA	-5.48	112.99	120.44
2	1-B	128	ASN	CA-C-N	5.47	128.06	120.29
2	1-B	128	ASN	C-N-CA	5.47	128.06	120.29
5	1-F	71	GLN	N-CA-C	-5.47	103.47	110.53
6	1-G	547	ILE	CA-C-N	5.47	127.62	120.28
6	1-G	547	ILE	C-N-CA	5.47	127.62	120.28
2	2-B	128	ASN	CA-C-N	5.47	128.06	120.29
2	2-B	128	ASN	C-N-CA	5.47	128.06	120.29
2	2-B	954	SER	N-CA-C	-5.47	105.31	111.28
5	2-F	71	GLN	N-CA-C	-5.47	103.47	110.53
6	2-G	547	ILE	CA-C-N	5.47	127.62	120.28
6	2-G	547	ILE	C-N-CA	5.47	127.62	120.28
2	3-B	128	ASN	CA-C-N	5.47	128.06	120.29
2	3-B	128	ASN	C-N-CA	5.47	128.06	120.29
2	3-B	954	SER	N-CA-C	-5.47	105.31	111.28
6	1-G	771	ASN	CA-C-N	-5.47	113.00	120.44
6	2-G	771	ASN	CA-C-N	-5.47	113.00	120.44
6	2-G	771	ASN	C-N-CA	-5.47	113.00	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	790	THR	CA-C-N	5.47	130.46	122.85
6	2-G	790	THR	C-N-CA	5.47	130.46	122.85
6	1-G	811	HIS	CA-C-O	-5.47	113.49	119.61
1	2-A	103	HIS	N-CA-C	5.47	122.44	110.80
6	2-G	811	HIS	CA-C-O	-5.47	113.49	119.61
1	3-A	103	HIS	N-CA-C	5.47	122.44	110.80
6	3-G	811	HIS	CA-C-O	-5.47	113.49	119.61
6	1-K	267	VAL	N-CA-C	-5.46	105.17	110.42
6	2-K	267	VAL	N-CA-C	-5.46	105.17	110.42
1	2-A	713	LEU	N-CA-C	5.46	120.43	113.55
1	3-A	713	LEU	N-CA-C	5.46	120.43	113.55
5	1-F	130	LEU	N-CA-C	-5.46	99.56	109.44
5	2-F	130	LEU	N-CA-C	-5.46	99.56	109.44
1	1-A	483	LEU	N-CA-C	-5.46	105.24	111.14
5	1-R	175	ASN	N-CA-C	5.46	122.43	110.80
1	2-A	483	LEU	N-CA-C	-5.46	105.24	111.14
1	3-A	483	LEU	N-CA-C	-5.46	105.24	111.14
5	3-R	175	ASN	N-CA-C	5.46	122.43	110.80
6	1-K	51	ILE	CA-C-N	5.46	127.59	120.28
6	1-K	51	ILE	C-N-CA	5.46	127.59	120.28
2	2-B	745	ALA	N-CA-C	-5.46	100.44	108.79
6	2-K	51	ILE	CA-C-N	5.46	127.59	120.28
6	2-K	51	ILE	C-N-CA	5.46	127.59	120.28
2	3-B	745	ALA	N-CA-C	-5.46	100.44	108.79
3	1-C	18	VAL	N-CA-C	-5.45	99.30	107.37
3	2-C	18	VAL	N-CA-C	-5.45	99.30	107.37
3	3-C	18	VAL	N-CA-C	-5.45	99.30	107.37
6	1-G	406	ARG	CA-C-N	5.45	127.53	120.44
6	1-G	406	ARG	C-N-CA	5.45	127.53	120.44
1	2-A	599	PHE	CA-C-N	-5.45	112.06	121.66
1	2-A	599	PHE	C-N-CA	-5.45	112.06	121.66
6	2-G	406	ARG	CA-C-N	5.45	127.53	120.44
6	2-G	406	ARG	C-N-CA	5.45	127.53	120.44
1	3-A	599	PHE	CA-C-N	-5.45	112.06	121.66
1	3-A	599	PHE	C-N-CA	-5.45	112.06	121.66
2	1-B	309	ASP	CA-C-O	5.45	128.30	120.51
3	1-C	452	TRP	N-CA-C	-5.45	105.64	114.09
2	2-B	309	ASP	CA-C-O	5.45	128.30	120.51
3	2-C	452	TRP	N-CA-C	-5.45	105.64	114.09
2	3-B	309	ASP	CA-C-O	5.45	128.30	120.51
3	3-C	452	TRP	N-CA-C	-5.45	105.64	114.09
1	3-A	743	SER	CA-C-N	5.45	128.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	743	SER	C-N-CA	5.45	128.13	120.28
7	1-L	26	LEU	CA-C-N	-5.45	112.36	121.94
7	1-L	26	LEU	C-N-CA	-5.45	112.36	121.94
7	2-L	26	LEU	CA-C-N	-5.45	112.36	121.94
7	2-L	26	LEU	C-N-CA	-5.45	112.36	121.94
7	3-L	26	LEU	CA-C-N	-5.45	112.36	121.94
7	3-L	26	LEU	C-N-CA	-5.45	112.36	121.94
2	2-B	808	SER	N-CA-C	5.44	122.39	110.80
2	3-B	808	SER	N-CA-C	5.44	122.39	110.80
6	1-G	296	CYS	O-C-N	5.44	127.89	122.12
6	1-G	719	ALA	N-CA-C	5.44	120.83	113.21
5	1-M	123	VAL	CA-C-N	5.44	129.91	122.84
5	1-M	123	VAL	C-N-CA	5.44	129.91	122.84
6	2-G	296	CYS	O-C-N	5.44	127.89	122.12
6	2-G	719	ALA	N-CA-C	5.44	120.83	113.21
5	2-M	123	VAL	CA-C-N	5.44	129.91	122.84
5	2-M	123	VAL	C-N-CA	5.44	129.91	122.84
5	3-M	123	VAL	CA-C-N	5.44	129.91	122.84
5	3-M	123	VAL	C-N-CA	5.44	129.91	122.84
1	2-A	688	GLN	N-CA-C	-5.44	105.25	111.07
7	2-Z	77	PHE	N-CA-C	-5.44	100.84	109.59
1	3-A	688	GLN	N-CA-C	-5.44	105.25	111.07
3	1-C	417	ASN	CA-C-N	5.44	130.29	122.35
3	1-C	417	ASN	C-N-CA	5.44	130.29	122.35
3	2-C	417	ASN	CA-C-N	5.44	130.29	122.35
3	2-C	417	ASN	C-N-CA	5.44	130.29	122.35
3	3-C	417	ASN	CA-C-N	5.44	130.29	122.35
3	3-C	417	ASN	C-N-CA	5.44	130.29	122.35
2	2-B	952	ALA	N-CA-C	5.43	117.20	111.28
2	3-B	952	ALA	N-CA-C	5.43	117.20	111.28
3	1-C	25	PRO	CA-C-N	5.43	131.91	121.54
3	1-C	25	PRO	C-N-CA	5.43	131.91	121.54
3	1-C	260	THR	N-CA-C	-5.43	104.22	112.04
7	1-L	146	VAL	N-CA-C	-5.43	101.57	109.29
3	2-C	25	PRO	CA-C-N	5.43	131.91	121.54
3	2-C	25	PRO	C-N-CA	5.43	131.91	121.54
3	2-C	260	THR	N-CA-C	-5.43	104.22	112.04
7	2-L	146	VAL	N-CA-C	-5.43	101.57	109.29
3	3-C	25	PRO	CA-C-N	5.43	131.91	121.54
3	3-C	25	PRO	C-N-CA	5.43	131.91	121.54
7	3-L	146	VAL	N-CA-C	-5.43	101.57	109.29
3	1-C	625	LEU	CA-C-N	5.43	127.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	625	LEU	C-N-CA	5.43	127.56	120.28
7	1-L	76	TYR	CA-C-O	5.43	126.91	120.66
3	2-C	625	LEU	CA-C-N	5.43	127.56	120.28
3	2-C	625	LEU	C-N-CA	5.43	127.56	120.28
7	2-L	76	TYR	CA-C-O	5.43	126.91	120.66
3	3-C	625	LEU	CA-C-N	5.43	127.56	120.28
3	3-C	625	LEU	C-N-CA	5.43	127.56	120.28
7	3-L	76	TYR	CA-C-O	5.43	126.91	120.66
3	1-C	366	PHE	CA-C-N	-5.43	114.53	122.68
3	1-C	366	PHE	C-N-CA	-5.43	114.53	122.68
5	1-M	21	LEU	CA-C-N	5.43	130.65	123.05
5	1-M	21	LEU	C-N-CA	5.43	130.65	123.05
5	2-M	21	LEU	CA-C-N	5.43	130.65	123.05
5	2-M	21	LEU	C-N-CA	5.43	130.65	123.05
3	3-C	366	PHE	CA-C-N	-5.43	114.53	122.68
3	3-C	366	PHE	C-N-CA	-5.43	114.53	122.68
5	3-M	21	LEU	CA-C-N	5.43	130.65	123.05
5	3-M	21	LEU	C-N-CA	5.43	130.65	123.05
3	1-C	385	ASN	N-CA-C	-5.43	101.61	109.59
3	2-C	385	ASN	N-CA-C	-5.43	101.61	109.59
3	3-C	385	ASN	N-CA-C	-5.43	101.61	109.59
3	1-C	572	ARG	O-C-N	5.43	129.74	123.17
6	1-K	811	HIS	CA-C-O	-5.43	113.53	119.61
3	2-C	572	ARG	O-C-N	5.43	129.74	123.17
6	2-K	811	HIS	CA-C-O	-5.43	113.53	119.61
3	3-C	572	ARG	O-C-N	5.43	129.74	123.17
2	1-B	328	ALA	CA-C-N	5.42	131.90	121.54
2	1-B	328	ALA	C-N-CA	5.42	131.90	121.54
2	2-B	328	ALA	CA-C-N	5.42	131.90	121.54
2	2-B	328	ALA	C-N-CA	5.42	131.90	121.54
6	1-G	325	CYS	CA-C-N	5.42	127.49	120.44
6	1-G	325	CYS	C-N-CA	5.42	127.49	120.44
6	2-G	325	CYS	CA-C-N	5.42	127.49	120.44
6	2-G	325	CYS	C-N-CA	5.42	127.49	120.44
4	1-D	235	VAL	O-C-N	5.42	127.22	121.91
4	2-D	235	VAL	O-C-N	5.42	127.22	121.91
4	3-D	235	VAL	O-C-N	5.42	127.22	121.91
6	2-G	852	VAL	N-CA-C	-5.41	100.64	108.71
6	3-G	852	VAL	N-CA-C	-5.41	100.64	108.71
1	2-A	205	ASP	N-CA-C	-5.41	99.27	110.80
1	3-A	205	ASP	N-CA-C	-5.41	99.27	110.80
3	1-C	433	ILE	N-CA-C	-5.41	100.04	108.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-C	433	ILE	N-CA-C	-5.41	100.04	108.86
6	2-K	117	GLU	CA-C-O	5.41	128.15	121.87
1	1-A	723	ALA	CA-C-N	5.41	127.47	120.44
1	1-A	723	ALA	C-N-CA	5.41	127.47	120.44
1	2-A	723	ALA	CA-C-N	5.41	127.47	120.44
1	2-A	723	ALA	C-N-CA	5.41	127.47	120.44
1	3-A	723	ALA	CA-C-N	5.41	127.47	120.44
1	3-A	723	ALA	C-N-CA	5.41	127.47	120.44
3	1-C	506	THR	N-CA-C	-5.41	106.16	114.16
5	1-F	102	GLU	CA-C-N	5.41	127.47	120.44
5	1-F	102	GLU	C-N-CA	5.41	127.47	120.44
3	2-C	506	THR	N-CA-C	-5.41	106.16	114.16
5	2-F	102	GLU	CA-C-N	5.41	127.47	120.44
5	2-F	102	GLU	C-N-CA	5.41	127.47	120.44
3	3-C	506	THR	N-CA-C	-5.41	106.16	114.16
6	1-K	757	GLU	N-CA-C	-5.40	100.59	109.40
6	2-K	757	GLU	N-CA-C	-5.40	100.59	109.40
3	1-C	307	SER	N-CA-C	-5.40	100.51	108.99
7	1-Z	86	ASN	N-CA-C	5.40	117.91	110.35
3	2-C	307	SER	N-CA-C	-5.40	100.51	108.99
3	2-C	604	SER	CA-C-N	5.40	127.52	120.28
3	2-C	604	SER	C-N-CA	5.40	127.52	120.28
7	2-Z	86	ASN	N-CA-C	5.40	117.91	110.35
3	3-C	307	SER	N-CA-C	-5.40	100.51	108.99
3	3-C	604	SER	CA-C-N	5.40	127.52	120.28
3	3-C	604	SER	C-N-CA	5.40	127.52	120.28
1	1-A	569	TYR	CA-C-N	-5.40	114.24	121.80
1	1-A	569	TYR	C-N-CA	-5.40	114.24	121.80
1	2-A	569	TYR	CA-C-N	-5.40	114.24	121.80
1	2-A	569	TYR	C-N-CA	-5.40	114.24	121.80
2	2-B	938	VAL	N-CA-C	-5.40	98.11	109.34
1	3-A	569	TYR	CA-C-N	-5.40	114.24	121.80
1	3-A	569	TYR	C-N-CA	-5.40	114.24	121.80
2	3-B	938	VAL	N-CA-C	-5.40	98.11	109.34
3	1-C	479	ILE	CA-C-N	5.40	130.17	122.72
3	1-C	479	ILE	C-N-CA	5.40	130.17	122.72
6	1-K	852	VAL	N-CA-C	-5.40	100.67	108.71
3	2-C	479	ILE	CA-C-N	5.40	130.17	122.72
3	2-C	479	ILE	C-N-CA	5.40	130.17	122.72
6	2-K	852	VAL	N-CA-C	-5.40	100.67	108.71
3	3-C	479	ILE	CA-C-N	5.40	130.17	122.72
3	3-C	479	ILE	C-N-CA	5.40	130.17	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-K	852	VAL	N-CA-C	-5.40	100.67	108.71
2	1-B	320	LEU	CA-C-N	5.39	127.85	120.46
2	1-B	320	LEU	C-N-CA	5.39	127.85	120.46
6	1-G	757	GLU	N-CA-C	-5.39	100.61	109.40
2	2-B	320	LEU	CA-C-N	5.39	127.85	120.46
2	2-B	320	LEU	C-N-CA	5.39	127.85	120.46
6	2-G	757	GLU	N-CA-C	-5.39	100.61	109.40
2	3-B	320	LEU	CA-C-N	5.39	127.85	120.46
2	3-B	320	LEU	C-N-CA	5.39	127.85	120.46
5	1-M	30	LYS	CA-C-N	5.39	127.95	120.29
5	1-M	30	LYS	C-N-CA	5.39	127.95	120.29
6	2-K	83	THR	N-CA-C	-5.39	105.57	111.82
5	2-M	30	LYS	CA-C-N	5.39	127.95	120.29
5	2-M	30	LYS	C-N-CA	5.39	127.95	120.29
5	3-M	30	LYS	CA-C-N	5.39	127.95	120.29
5	3-M	30	LYS	C-N-CA	5.39	127.95	120.29
2	2-B	934	PRO	N-CA-C	5.39	123.57	112.47
5	2-R	29	GLY	N-CA-C	-5.39	100.41	113.18
2	3-B	934	PRO	N-CA-C	5.39	123.57	112.47
6	1-K	284	GLU	CA-C-N	5.39	127.50	120.28
6	1-K	284	GLU	C-N-CA	5.39	127.50	120.28
6	2-K	284	GLU	CA-C-N	5.39	127.50	120.28
6	2-K	284	GLU	C-N-CA	5.39	127.50	120.28
3	1-C	652	GLY	N-CA-C	5.39	123.20	114.90
3	1-C	692	HIS	N-CA-C	-5.39	105.41	111.28
6	1-G	209	LEU	CA-C-O	5.39	126.26	120.55
6	1-K	632	SER	N-CA-C	-5.39	101.17	109.52
3	2-C	652	GLY	N-CA-C	5.39	123.20	114.90
3	2-C	692	HIS	N-CA-C	-5.39	105.41	111.28
6	2-G	209	LEU	CA-C-O	5.39	126.26	120.55
6	2-K	632	SER	N-CA-C	-5.39	101.17	109.52
3	3-C	652	GLY	N-CA-C	5.39	123.20	114.90
3	3-C	692	HIS	N-CA-C	-5.39	105.41	111.28
6	3-G	209	LEU	CA-C-O	5.39	126.26	120.55
6	1-K	296	CYS	CA-C-N	5.38	131.82	121.54
6	1-K	296	CYS	C-N-CA	5.38	131.82	121.54
6	2-K	296	CYS	CA-C-N	5.38	131.82	121.54
6	2-K	296	CYS	C-N-CA	5.38	131.82	121.54
1	1-A	568	ILE	CA-C-N	5.38	131.45	122.73
1	1-A	568	ILE	C-N-CA	5.38	131.45	122.73
1	2-A	568	ILE	CA-C-N	5.38	131.45	122.73
1	2-A	568	ILE	C-N-CA	5.38	131.45	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	568	ILE	CA-C-N	5.38	131.45	122.73
1	3-A	568	ILE	C-N-CA	5.38	131.45	122.73
3	1-C	572	ARG	CA-C-N	5.38	130.73	122.93
3	1-C	572	ARG	C-N-CA	5.38	130.73	122.93
3	2-C	572	ARG	CA-C-N	5.38	130.73	122.93
3	2-C	572	ARG	C-N-CA	5.38	130.73	122.93
3	3-C	572	ARG	CA-C-N	5.38	130.73	122.93
3	3-C	572	ARG	C-N-CA	5.38	130.73	122.93
2	1-B	538	THR	CA-C-N	5.38	127.49	120.28
2	1-B	538	THR	C-N-CA	5.38	127.49	120.28
2	3-B	538	THR	CA-C-N	5.38	127.49	120.28
2	3-B	538	THR	C-N-CA	5.38	127.49	120.28
2	1-B	529	LEU	CA-C-N	5.38	127.33	120.56
2	1-B	529	LEU	C-N-CA	5.38	127.33	120.56
6	1-G	632	SER	N-CA-C	-5.38	101.19	109.52
6	2-G	632	SER	N-CA-C	-5.38	101.19	109.52
2	3-B	529	LEU	CA-C-N	5.38	127.33	120.56
2	3-B	529	LEU	C-N-CA	5.38	127.33	120.56
3	1-C	697	GLY	CA-C-N	5.37	125.91	120.00
3	1-C	697	GLY	C-N-CA	5.37	125.91	120.00
3	2-C	697	GLY	CA-C-N	5.37	125.91	120.00
3	2-C	697	GLY	C-N-CA	5.37	125.91	120.00
7	2-Z	44	PHE	N-CA-C	-5.37	105.50	111.36
3	3-C	697	GLY	CA-C-N	5.37	125.91	120.00
3	3-C	697	GLY	C-N-CA	5.37	125.91	120.00
7	3-Z	44	PHE	N-CA-C	-5.37	105.50	111.36
3	1-C	759	ARG	N-CA-C	5.37	116.94	111.14
3	2-C	759	ARG	N-CA-C	5.37	116.94	111.14
6	2-K	178	VAL	CA-C-N	5.37	127.48	120.28
6	2-K	178	VAL	C-N-CA	5.37	127.48	120.28
3	3-C	759	ARG	N-CA-C	5.37	116.94	111.14
3	1-C	265	SER	N-CA-C	5.37	117.01	108.79
3	2-C	265	SER	N-CA-C	5.37	117.01	108.79
6	2-K	213	LYS	CA-C-N	5.37	127.48	120.28
6	2-K	213	LYS	C-N-CA	5.37	127.48	120.28
6	2-K	220	ARG	CA-C-O	-5.37	114.26	120.49
5	1-F	113	GLU	CA-C-N	5.37	130.67	122.24
5	1-F	113	GLU	C-N-CA	5.37	130.67	122.24
1	2-A	76	LYS	CA-C-N	-5.37	115.53	122.99
1	2-A	76	LYS	C-N-CA	-5.37	115.53	122.99
5	2-F	113	GLU	CA-C-N	5.37	130.67	122.24
5	2-F	113	GLU	C-N-CA	5.37	130.67	122.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	76	LYS	CA-C-N	-5.37	115.53	122.99
1	3-A	76	LYS	C-N-CA	-5.37	115.53	122.99
5	1-F	122	LEU	N-CA-C	5.37	117.16	108.41
5	1-M	42	VAL	CA-C-N	5.37	131.63	121.97
5	1-M	42	VAL	C-N-CA	5.37	131.63	121.97
5	2-F	122	LEU	N-CA-C	5.37	117.16	108.41
5	2-M	42	VAL	CA-C-N	5.37	131.63	121.97
5	2-M	42	VAL	C-N-CA	5.37	131.63	121.97
5	3-M	42	VAL	CA-C-N	5.37	131.63	121.97
5	3-M	42	VAL	C-N-CA	5.37	131.63	121.97
3	1-C	431	GLU	N-CA-C	-5.36	99.38	110.80
3	2-C	431	GLU	N-CA-C	-5.36	99.38	110.80
1	2-A	149	LEU	CA-C-N	-5.36	115.49	122.51
1	2-A	149	LEU	C-N-CA	-5.36	115.49	122.51
1	3-A	149	LEU	CA-C-N	-5.36	115.49	122.51
1	3-A	149	LEU	C-N-CA	-5.36	115.49	122.51
7	2-Z	68	VAL	N-CA-C	-5.35	100.61	108.11
3	1-C	524	VAL	N-CA-C	5.35	115.79	107.28
4	1-D	124	ASN	CA-C-N	5.35	131.60	121.97
4	1-D	124	ASN	C-N-CA	5.35	131.60	121.97
4	2-D	124	ASN	CA-C-N	5.35	131.60	121.97
4	2-D	124	ASN	C-N-CA	5.35	131.60	121.97
3	3-C	524	VAL	N-CA-C	5.35	115.79	107.28
4	3-D	124	ASN	CA-C-N	5.35	131.60	121.97
4	3-D	124	ASN	C-N-CA	5.35	131.60	121.97
6	1-G	169	CYS	N-CA-C	-5.35	105.14	110.97
6	2-G	169	CYS	N-CA-C	-5.35	105.14	110.97
6	1-G	99	ALA	CA-C-N	5.35	131.75	121.54
6	1-G	99	ALA	C-N-CA	5.35	131.75	121.54
6	2-G	99	ALA	CA-C-N	5.35	131.75	121.54
6	2-G	99	ALA	C-N-CA	5.35	131.75	121.54
1	2-A	220	ILE	N-CA-C	-5.35	100.15	108.86
1	3-A	220	ILE	N-CA-C	-5.35	100.15	108.86
1	2-A	219	LEU	N-CA-C	-5.34	102.97	110.50
1	3-A	219	LEU	N-CA-C	-5.34	102.97	110.50
3	1-C	11	LEU	N-CA-C	-5.34	100.32	108.76
3	2-C	11	LEU	N-CA-C	-5.34	100.32	108.76
3	3-C	11	LEU	N-CA-C	-5.34	100.32	108.76
3	1-C	22	ASP	N-CA-C	-5.34	100.61	108.99
3	2-C	22	ASP	N-CA-C	-5.34	100.61	108.99
3	3-C	22	ASP	N-CA-C	-5.34	100.61	108.99
5	1-F	94	SER	N-CA-C	-5.34	106.95	112.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-M	19	ARG	N-CA-C	-5.34	99.82	108.41
5	2-F	94	SER	N-CA-C	-5.34	106.95	112.93
5	2-M	19	ARG	N-CA-C	-5.34	99.82	108.41
5	3-M	19	ARG	N-CA-C	-5.34	99.82	108.41
6	1-G	222	GLY	N-CA-C	-5.33	104.29	111.54
6	2-G	222	GLY	N-CA-C	-5.33	104.29	111.54
6	3-G	222	GLY	N-CA-C	-5.33	104.29	111.54
1	2-A	222	SER	N-CA-C	5.33	117.49	109.23
1	2-A	623	GLN	N-CA-C	-5.33	101.19	108.38
1	3-A	222	SER	N-CA-C	5.33	117.49	109.23
1	3-A	623	GLN	N-CA-C	-5.33	101.19	108.38
3	1-C	314	ILE	CA-C-N	-5.33	116.59	123.19
3	1-C	314	ILE	C-N-CA	-5.33	116.59	123.19
3	2-C	314	ILE	CA-C-N	-5.33	116.59	123.19
3	2-C	314	ILE	C-N-CA	-5.33	116.59	123.19
3	3-C	314	ILE	CA-C-N	-5.33	116.59	123.19
3	3-C	314	ILE	C-N-CA	-5.33	116.59	123.19
1	1-A	810	LEU	CA-C-N	5.32	131.71	121.54
1	1-A	810	LEU	C-N-CA	5.32	131.71	121.54
4	1-D	55	ARG	CA-C-N	-5.32	114.54	122.74
4	1-D	55	ARG	C-N-CA	-5.32	114.54	122.74
4	2-D	55	ARG	CA-C-N	-5.32	114.54	122.74
4	2-D	55	ARG	C-N-CA	-5.32	114.54	122.74
1	3-A	810	LEU	CA-C-N	5.32	131.71	121.54
1	3-A	810	LEU	C-N-CA	5.32	131.71	121.54
4	3-D	55	ARG	CA-C-N	-5.32	114.54	122.74
4	3-D	55	ARG	C-N-CA	-5.32	114.54	122.74
6	2-K	147	ALA	CA-C-N	5.32	127.75	120.46
6	2-K	147	ALA	C-N-CA	5.32	127.75	120.46
6	1-G	148	ILE	N-CA-C	-5.32	105.19	110.62
6	2-G	148	ILE	N-CA-C	-5.32	105.19	110.62
6	1-G	514	LYS	CA-C-N	5.32	127.84	120.29
6	1-G	514	LYS	C-N-CA	5.32	127.84	120.29
6	2-G	514	LYS	CA-C-N	5.32	127.84	120.29
6	2-G	514	LYS	C-N-CA	5.32	127.84	120.29
3	1-C	231	ASN	CA-C-N	-5.31	115.73	122.37
3	1-C	231	ASN	C-N-CA	-5.31	115.73	122.37
1	2-A	377	VAL	N-CA-C	5.31	116.31	108.45
3	2-C	231	ASN	CA-C-N	-5.31	115.73	122.37
3	2-C	231	ASN	C-N-CA	-5.31	115.73	122.37
1	3-A	377	VAL	N-CA-C	5.31	116.31	108.45
5	1-F	115	GLU	O-C-N	5.31	127.75	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-F	115	GLU	O-C-N	5.31	127.75	122.12
2	2-B	794	PRO	CA-C-O	-5.31	115.55	121.23
2	2-B	836	ASP	N-CA-C	-5.31	102.61	110.46
2	3-B	794	PRO	CA-C-O	-5.31	115.55	121.23
2	3-B	836	ASP	N-CA-C	-5.31	102.61	110.46
1	1-A	811	LEU	CA-C-N	5.30	127.39	120.28
1	1-A	811	LEU	C-N-CA	5.30	127.39	120.28
5	1-M	97	ARG	N-CA-C	-5.30	106.49	113.17
1	2-A	86	LEU	CA-C-N	5.30	131.81	121.63
1	2-A	86	LEU	C-N-CA	5.30	131.81	121.63
5	2-M	97	ARG	N-CA-C	-5.30	106.49	113.17
1	3-A	86	LEU	CA-C-N	5.30	131.81	121.63
1	3-A	86	LEU	C-N-CA	5.30	131.81	121.63
1	3-A	811	LEU	CA-C-N	5.30	127.39	120.28
1	3-A	811	LEU	C-N-CA	5.30	127.39	120.28
5	3-M	97	ARG	N-CA-C	-5.30	106.49	113.17
1	1-A	487	LYS	N-CA-C	-5.30	100.09	108.73
6	1-K	663	PHE	CA-C-N	5.30	130.04	122.72
6	1-K	663	PHE	C-N-CA	5.30	130.04	122.72
1	2-A	487	LYS	N-CA-C	-5.30	100.09	108.73
6	2-K	663	PHE	CA-C-N	5.30	130.04	122.72
6	2-K	663	PHE	C-N-CA	5.30	130.04	122.72
1	3-A	487	LYS	N-CA-C	-5.30	100.09	108.73
6	1-G	412	GLU	CA-C-N	5.30	127.38	120.28
6	1-G	412	GLU	C-N-CA	5.30	127.38	120.28
6	2-G	412	GLU	CA-C-N	5.30	127.38	120.28
6	2-G	412	GLU	C-N-CA	5.30	127.38	120.28
4	1-D	53	SER	CA-C-N	-5.30	115.62	122.99
4	1-D	53	SER	C-N-CA	-5.30	115.62	122.99
6	1-G	288	ALA	CA-C-N	5.30	127.24	120.56
6	1-G	288	ALA	C-N-CA	5.30	127.24	120.56
7	1-Z	106	ARG	N-CA-C	-5.30	102.18	113.20
1	2-A	403	GLN	CA-C-N	5.30	128.41	120.83
1	2-A	403	GLN	C-N-CA	5.30	128.41	120.83
4	2-D	53	SER	CA-C-N	-5.30	115.62	122.99
4	2-D	53	SER	C-N-CA	-5.30	115.62	122.99
6	2-G	288	ALA	CA-C-N	5.30	127.24	120.56
6	2-G	288	ALA	C-N-CA	5.30	127.24	120.56
7	2-Z	106	ARG	N-CA-C	-5.30	102.18	113.20
1	3-A	403	GLN	CA-C-N	5.30	128.41	120.83
1	3-A	403	GLN	C-N-CA	5.30	128.41	120.83
4	3-D	53	SER	CA-C-N	-5.30	115.62	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-D	53	SER	C-N-CA	-5.30	115.62	122.99
2	2-B	794	PRO	N-CA-C	5.30	119.19	111.03
2	3-B	794	PRO	N-CA-C	5.30	119.19	111.03
1	1-A	494	VAL	N-CA-C	-5.29	100.85	108.53
4	1-D	51	THR	CA-C-N	5.29	129.88	122.36
4	1-D	51	THR	C-N-CA	5.29	129.88	122.36
1	2-A	494	VAL	N-CA-C	-5.29	100.85	108.53
4	2-D	51	THR	CA-C-N	5.29	129.88	122.36
4	2-D	51	THR	C-N-CA	5.29	129.88	122.36
1	3-A	494	VAL	N-CA-C	-5.29	100.85	108.53
4	3-D	51	THR	CA-C-N	5.29	129.88	122.36
4	3-D	51	THR	C-N-CA	5.29	129.88	122.36
6	1-G	177	TRP	CA-C-N	5.29	127.99	120.53
6	1-G	177	TRP	C-N-CA	5.29	127.99	120.53
6	1-G	403	THR	O-C-N	5.29	127.73	122.12
6	2-G	177	TRP	CA-C-N	5.29	127.99	120.53
6	2-G	177	TRP	C-N-CA	5.29	127.99	120.53
6	2-G	403	THR	O-C-N	5.29	127.73	122.12
2	2-B	825	ALA	N-CA-C	5.29	122.07	110.80
2	3-B	825	ALA	N-CA-C	5.29	122.07	110.80
6	1-G	242	GLU	CA-C-N	5.29	131.64	121.54
6	1-G	242	GLU	C-N-CA	5.29	131.64	121.54
7	1-L	79	VAL	CA-C-O	-5.29	114.75	120.67
6	2-G	242	GLU	CA-C-N	5.29	131.64	121.54
6	2-G	242	GLU	C-N-CA	5.29	131.64	121.54
7	2-L	79	VAL	CA-C-O	-5.29	114.75	120.67
7	3-L	79	VAL	CA-C-O	-5.29	114.75	120.67
3	1-C	421	LYS	CA-C-O	5.29	126.12	120.46
6	1-G	410	GLY	N-CA-C	-5.29	100.65	113.18
3	2-C	421	LYS	CA-C-O	5.29	126.12	120.46
6	2-G	410	GLY	N-CA-C	-5.29	100.65	113.18
3	3-C	421	LYS	CA-C-O	5.29	126.12	120.46
4	1-D	6	ALA	N-CA-C	-5.29	100.28	108.90
4	2-D	6	ALA	N-CA-C	-5.29	100.28	108.90
6	1-G	56	ASN	N-CA-C	-5.29	105.52	111.28
3	2-C	299	LEU	N-CA-C	5.29	119.28	112.41
6	2-G	56	ASN	N-CA-C	-5.29	105.52	111.28
5	2-R	22	MET	N-CA-C	-5.29	99.91	108.52
3	3-C	299	LEU	N-CA-C	5.29	119.28	112.41
1	3-A	764	THR	N-CA-C	5.28	118.99	112.54
1	1-A	513	ILE	CA-C-O	5.28	126.08	120.48
3	1-C	503	GLU	CA-C-N	5.28	131.76	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-C	503	GLU	C-N-CA	5.28	131.76	121.41
1	2-A	513	ILE	CA-C-O	5.28	126.08	120.48
3	2-C	503	GLU	CA-C-N	5.28	131.76	121.41
3	2-C	503	GLU	C-N-CA	5.28	131.76	121.41
1	3-A	513	ILE	CA-C-O	5.28	126.08	120.48
3	3-C	503	GLU	CA-C-N	5.28	131.76	121.41
3	3-C	503	GLU	C-N-CA	5.28	131.76	121.41
1	2-A	461	THR	CA-C-N	5.28	129.41	120.86
1	2-A	461	THR	C-N-CA	5.28	129.41	120.86
1	3-A	461	THR	CA-C-N	5.28	129.41	120.86
1	3-A	461	THR	C-N-CA	5.28	129.41	120.86
3	1-C	386	LYS	CA-C-O	-5.28	115.26	120.70
3	1-C	542	ARG	N-CA-C	-5.28	101.09	109.59
3	2-C	386	LYS	CA-C-O	-5.28	115.26	120.70
3	2-C	542	ARG	N-CA-C	-5.28	101.09	109.59
3	3-C	386	LYS	CA-C-O	-5.28	115.26	120.70
3	3-C	542	ARG	N-CA-C	-5.28	101.09	109.59
3	1-C	717	GLU	CA-C-N	5.28	125.84	119.98
3	1-C	717	GLU	C-N-CA	5.28	125.84	119.98
6	1-G	209	LEU	CA-C-N	5.28	127.35	120.28
6	1-G	209	LEU	C-N-CA	5.28	127.35	120.28
6	1-G	527	ARG	N-CA-C	-5.28	105.43	111.07
3	2-C	717	GLU	CA-C-N	5.28	125.84	119.98
3	2-C	717	GLU	C-N-CA	5.28	125.84	119.98
6	2-G	209	LEU	CA-C-N	5.28	127.35	120.28
6	2-G	209	LEU	C-N-CA	5.28	127.35	120.28
6	2-G	527	ARG	N-CA-C	-5.28	105.43	111.07
3	3-C	717	GLU	CA-C-N	5.28	125.84	119.98
3	3-C	717	GLU	C-N-CA	5.28	125.84	119.98
6	3-G	209	LEU	CA-C-N	5.28	127.35	120.28
6	3-G	209	LEU	C-N-CA	5.28	127.35	120.28
5	1-F	133	ALA	CA-C-N	5.27	131.98	122.02
5	1-F	133	ALA	C-N-CA	5.27	131.98	122.02
2	2-B	778	LEU	CA-C-N	5.27	131.75	121.41
2	2-B	778	LEU	C-N-CA	5.27	131.75	121.41
5	2-F	133	ALA	CA-C-N	5.27	131.98	122.02
5	2-F	133	ALA	C-N-CA	5.27	131.98	122.02
2	3-B	778	LEU	CA-C-N	5.27	131.75	121.41
2	3-B	778	LEU	C-N-CA	5.27	131.75	121.41
6	1-G	663	PHE	CA-C-N	5.27	129.99	122.72
6	1-G	663	PHE	C-N-CA	5.27	129.99	122.72
1	2-A	191	GLY	N-CA-C	-5.27	100.69	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-G	663	PHE	CA-C-N	5.27	129.99	122.72
6	2-G	663	PHE	C-N-CA	5.27	129.99	122.72
1	3-A	191	GLY	N-CA-C	-5.27	100.69	113.18
5	1-F	101	GLY	CA-C-O	5.27	126.17	120.75
6	1-G	740	GLY	CA-C-N	5.27	131.60	121.54
6	1-G	740	GLY	C-N-CA	5.27	131.60	121.54
7	1-L	11	TYR	CA-C-N	5.27	131.60	121.54
7	1-L	11	TYR	C-N-CA	5.27	131.60	121.54
5	2-F	101	GLY	CA-C-O	5.27	126.17	120.75
6	2-G	740	GLY	CA-C-N	5.27	131.60	121.54
6	2-G	740	GLY	C-N-CA	5.27	131.60	121.54
7	2-L	11	TYR	CA-C-N	5.27	131.60	121.54
7	2-L	11	TYR	C-N-CA	5.27	131.60	121.54
7	3-L	11	TYR	CA-C-N	5.27	131.60	121.54
7	3-L	11	TYR	C-N-CA	5.27	131.60	121.54
2	2-B	750	ASN	CA-C-N	5.27	131.60	121.54
2	2-B	750	ASN	C-N-CA	5.27	131.60	121.54
2	3-B	750	ASN	CA-C-N	5.27	131.60	121.54
2	3-B	750	ASN	C-N-CA	5.27	131.60	121.54
3	1-C	763	PRO	CA-C-N	5.26	130.81	122.61
3	1-C	763	PRO	C-N-CA	5.26	130.81	122.61
3	2-C	763	PRO	CA-C-N	5.26	130.81	122.61
3	2-C	763	PRO	C-N-CA	5.26	130.81	122.61
6	2-K	122	GLY	CA-C-N	5.26	124.89	119.05
6	2-K	122	GLY	C-N-CA	5.26	124.89	119.05
3	3-C	763	PRO	CA-C-N	5.26	130.81	122.61
3	3-C	763	PRO	C-N-CA	5.26	130.81	122.61
7	1-Z	114	LEU	N-CA-C	-5.26	105.45	111.07
7	2-Z	114	LEU	N-CA-C	-5.26	105.45	111.07
6	2-K	62	GLY	CA-C-N	5.26	127.27	120.44
6	2-K	62	GLY	C-N-CA	5.26	127.27	120.44
5	1-F	115	GLU	N-CA-C	-5.25	105.55	111.28
5	2-F	115	GLU	N-CA-C	-5.25	105.55	111.28
3	1-C	790	ASP	CA-C-O	-5.25	112.96	120.16
5	1-F	110	MET	N-CA-C	-5.25	105.63	111.36
3	2-C	790	ASP	CA-C-O	-5.25	112.96	120.16
5	2-F	110	MET	N-CA-C	-5.25	105.63	111.36
3	3-C	790	ASP	CA-C-O	-5.25	112.96	120.16
3	1-C	65	PHE	CA-C-O	-5.25	115.14	120.71
4	1-D	67	VAL	CA-C-O	5.25	126.55	120.67
3	2-C	65	PHE	CA-C-O	-5.25	115.14	120.71
4	2-D	67	VAL	CA-C-O	5.25	126.55	120.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-A	779	ASP	CA-C-N	5.25	125.54	119.92
1	3-A	779	ASP	C-N-CA	5.25	125.54	119.92
3	3-C	65	PHE	CA-C-O	-5.25	115.14	120.71
4	3-D	67	VAL	CA-C-O	5.25	126.55	120.67
3	1-C	476	LEU	CA-C-N	-5.25	114.39	122.68
3	1-C	476	LEU	C-N-CA	-5.25	114.39	122.68
5	1-M	89	ILE	CA-C-N	-5.25	115.66	123.11
5	1-M	89	ILE	C-N-CA	-5.25	115.66	123.11
3	2-C	476	LEU	CA-C-N	-5.25	114.39	122.68
3	2-C	476	LEU	C-N-CA	-5.25	114.39	122.68
5	2-M	89	ILE	CA-C-N	-5.25	115.66	123.11
5	2-M	89	ILE	C-N-CA	-5.25	115.66	123.11
3	3-C	476	LEU	CA-C-N	-5.25	114.39	122.68
3	3-C	476	LEU	C-N-CA	-5.25	114.39	122.68
5	3-M	89	ILE	CA-C-N	-5.25	115.66	123.11
5	3-M	89	ILE	C-N-CA	-5.25	115.66	123.11
5	1-F	23	VAL	O-C-N	5.25	128.77	123.00
5	2-F	23	VAL	O-C-N	5.25	128.77	123.00
1	1-A	566	LEU	N-CA-C	-5.25	98.22	109.81
1	2-A	566	LEU	N-CA-C	-5.25	98.22	109.81
1	3-A	566	LEU	N-CA-C	-5.25	98.22	109.81
5	1-R	105	GLU	CA-C-N	-5.24	113.96	120.56
5	1-R	105	GLU	C-N-CA	-5.24	113.96	120.56
2	2-B	906	MET	N-CA-C	5.24	118.09	109.76
5	2-R	105	GLU	CA-C-N	-5.24	113.96	120.56
5	2-R	105	GLU	C-N-CA	-5.24	113.96	120.56
2	3-B	906	MET	N-CA-C	5.24	118.09	109.76
5	3-R	105	GLU	CA-C-N	-5.24	113.96	120.56
5	3-R	105	GLU	C-N-CA	-5.24	113.96	120.56
2	1-B	453	ILE	CA-C-N	5.24	127.64	120.46
2	1-B	453	ILE	C-N-CA	5.24	127.64	120.46
5	2-R	65	VAL	CA-C-N	5.24	129.65	122.84
5	2-R	65	VAL	C-N-CA	5.24	129.65	122.84
2	3-B	453	ILE	CA-C-N	5.24	127.64	120.46
2	3-B	453	ILE	C-N-CA	5.24	127.64	120.46
2	1-B	387	GLU	N-CA-C	-5.24	99.34	109.24
4	1-D	51	THR	N-CA-C	-5.23	101.13	109.23
4	2-D	51	THR	N-CA-C	-5.23	101.13	109.23
4	3-D	51	THR	N-CA-C	-5.23	101.13	109.23
5	1-M	139	ILE	N-CA-C	5.22	115.95	110.62
5	2-M	139	ILE	N-CA-C	5.22	115.95	110.62
5	3-M	139	ILE	N-CA-C	5.22	115.95	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-R	145	LEU	N-CA-C	5.22	121.92	110.80
5	2-R	145	LEU	N-CA-C	5.22	121.92	110.80
5	3-R	145	LEU	N-CA-C	5.22	121.92	110.80
6	1-G	223	LEU	N-CA-C	5.22	118.19	110.46
6	2-G	223	LEU	N-CA-C	5.22	118.19	110.46
6	3-G	223	LEU	N-CA-C	5.22	118.19	110.46
4	1-D	321	ASP	CA-C-N	5.22	130.27	121.14
4	1-D	321	ASP	C-N-CA	5.22	130.27	121.14
4	2-D	321	ASP	CA-C-N	5.22	130.27	121.14
4	2-D	321	ASP	C-N-CA	5.22	130.27	121.14
1	3-A	230	LYS	N-CA-C	-5.22	100.89	109.40
4	3-D	321	ASP	CA-C-N	5.22	130.27	121.14
4	3-D	321	ASP	C-N-CA	5.22	130.27	121.14
6	1-G	615	GLU	CA-C-N	5.22	127.27	120.28
6	1-G	615	GLU	C-N-CA	5.22	127.27	120.28
6	2-G	615	GLU	CA-C-N	5.22	127.27	120.28
6	2-G	615	GLU	C-N-CA	5.22	127.27	120.28
1	3-A	761	SER	CA-C-N	5.22	127.22	120.44
1	3-A	761	SER	C-N-CA	5.22	127.22	120.44
6	1-K	740	GLY	CA-C-N	5.21	131.50	121.54
6	1-K	740	GLY	C-N-CA	5.21	131.50	121.54
3	2-C	672	GLN	CA-C-O	5.21	126.08	120.55
6	2-K	740	GLY	CA-C-N	5.21	131.50	121.54
6	2-K	740	GLY	C-N-CA	5.21	131.50	121.54
3	3-C	672	GLN	CA-C-O	5.21	126.08	120.55
6	3-K	740	GLY	CA-C-N	5.21	131.50	121.54
6	3-K	740	GLY	C-N-CA	5.21	131.50	121.54
6	1-K	615	GLU	CA-C-N	5.21	127.26	120.28
6	1-K	615	GLU	C-N-CA	5.21	127.26	120.28
6	2-K	615	GLU	CA-C-N	5.21	127.26	120.28
6	2-K	615	GLU	C-N-CA	5.21	127.26	120.28
3	1-C	712	VAL	CA-C-O	-5.21	115.53	120.95
6	1-K	702	GLN	N-CA-C	5.21	121.32	109.81
3	2-C	712	VAL	CA-C-O	-5.21	115.53	120.95
6	2-K	702	GLN	N-CA-C	5.21	121.32	109.81
3	3-C	712	VAL	CA-C-O	-5.21	115.53	120.95
6	3-K	702	GLN	N-CA-C	5.21	121.32	109.81
5	1-R	142	LYS	N-CA-C	-5.20	105.69	111.36
1	2-A	358	ARG	N-CA-C	-5.20	104.28	110.41
5	2-R	142	LYS	N-CA-C	-5.20	105.69	111.36
1	3-A	358	ARG	N-CA-C	-5.20	104.28	110.41
5	3-R	142	LYS	N-CA-C	-5.20	105.69	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-A	662	LEU	CA-C-O	5.20	126.06	120.55
1	2-A	662	LEU	CA-C-O	5.20	126.06	120.55
1	3-A	662	LEU	CA-C-O	5.20	126.06	120.55
3	2-C	459	ARG	N-CA-C	-5.20	100.42	108.42
3	3-C	459	ARG	N-CA-C	-5.20	100.42	108.42
1	2-A	710	THR	N-CA-C	5.19	119.33	112.89
1	3-A	710	THR	N-CA-C	5.19	119.33	112.89
5	1-F	102	GLU	N-CA-C	-5.19	105.70	111.36
5	2-F	102	GLU	N-CA-C	-5.19	105.70	111.36
6	2-G	859	ARG	O-C-N	-5.19	117.25	123.27
6	3-G	859	ARG	O-C-N	-5.19	117.25	123.27
1	2-A	635	PRO	CA-C-N	5.19	128.20	120.31
1	2-A	635	PRO	C-N-CA	5.19	128.20	120.31
1	3-A	635	PRO	CA-C-N	5.19	128.20	120.31
1	3-A	635	PRO	C-N-CA	5.19	128.20	120.31
3	1-C	637	VAL	O-C-N	5.18	127.17	121.83
3	2-C	637	VAL	O-C-N	5.18	127.17	121.83
3	3-C	637	VAL	O-C-N	5.18	127.17	121.83
4	1-D	67	VAL	CA-C-N	5.18	130.70	122.62
4	1-D	67	VAL	C-N-CA	5.18	130.70	122.62
6	1-K	859	ARG	O-C-N	-5.18	117.26	123.27
4	2-D	67	VAL	CA-C-N	5.18	130.70	122.62
4	2-D	67	VAL	C-N-CA	5.18	130.70	122.62
6	2-K	859	ARG	O-C-N	-5.18	117.26	123.27
4	3-D	67	VAL	CA-C-N	5.18	130.70	122.62
4	3-D	67	VAL	C-N-CA	5.18	130.70	122.62
6	3-K	859	ARG	O-C-N	-5.18	117.26	123.27
1	1-A	495	ILE	CA-C-O	5.18	125.83	120.39
1	2-A	495	ILE	CA-C-O	5.18	125.83	120.39
1	3-A	495	ILE	CA-C-O	5.18	125.83	120.39
6	1-G	446	CYS	CA-C-N	5.18	131.43	121.54
6	1-G	446	CYS	C-N-CA	5.18	131.43	121.54
6	2-G	446	CYS	CA-C-N	5.18	131.43	121.54
6	2-G	446	CYS	C-N-CA	5.18	131.43	121.54
7	1-L	80	ILE	O-C-N	5.18	128.77	123.18
5	1-M	22	MET	N-CA-C	-5.18	100.08	108.52
6	2-K	150	ASP	N-CA-C	5.18	118.05	109.46
7	2-L	80	ILE	O-C-N	5.18	128.77	123.18
5	2-M	22	MET	N-CA-C	-5.18	100.08	108.52
7	3-L	80	ILE	O-C-N	5.18	128.77	123.18
5	3-M	22	MET	N-CA-C	-5.18	100.08	108.52
5	1-F	126	ASN	N-CA-C	-5.17	102.50	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-F	126	ASN	N-CA-C	-5.17	102.50	109.95
1	3-A	308	ALA	CA-C-N	5.17	127.38	122.36
1	3-A	308	ALA	C-N-CA	5.17	127.38	122.36
7	2-Z	117	ASN	CA-C-N	5.17	129.47	120.68
7	2-Z	117	ASN	C-N-CA	5.17	129.47	120.68
3	1-C	827	VAL	CA-C-N	5.16	134.40	121.80
3	1-C	827	VAL	C-N-CA	5.16	134.40	121.80
3	2-C	827	VAL	CA-C-N	5.16	134.40	121.80
3	2-C	827	VAL	C-N-CA	5.16	134.40	121.80
6	2-K	114	THR	N-CA-C	-5.16	106.49	112.89
3	3-C	827	VAL	CA-C-N	5.16	134.40	121.80
3	3-C	827	VAL	C-N-CA	5.16	134.40	121.80
6	1-G	141	GLU	CA-C-O	-5.16	115.06	120.63
6	2-G	141	GLU	CA-C-O	-5.16	115.06	120.63
5	1-F	129	ASP	N-CA-C	-5.16	105.66	111.28
1	2-A	280	LYS	CA-C-N	5.16	131.40	121.54
1	2-A	280	LYS	C-N-CA	5.16	131.40	121.54
5	2-F	129	ASP	N-CA-C	-5.16	105.66	111.28
1	3-A	280	LYS	CA-C-N	5.16	131.40	121.54
1	3-A	280	LYS	C-N-CA	5.16	131.40	121.54
3	1-C	828	THR	N-CA-C	-5.16	98.42	109.81
3	2-C	828	THR	N-CA-C	-5.16	98.42	109.81
6	2-K	153	PRO	CA-C-N	5.16	127.14	120.44
6	2-K	153	PRO	C-N-CA	5.16	127.14	120.44
1	3-A	762	ALA	N-CA-C	5.16	116.59	111.07
3	3-C	828	THR	N-CA-C	-5.16	98.42	109.81
3	1-C	391	ALA	O-C-N	5.15	128.74	122.14
3	2-C	391	ALA	O-C-N	5.15	128.74	122.14
3	3-C	391	ALA	O-C-N	5.15	128.74	122.14
1	1-A	578	VAL	N-CA-C	5.15	116.22	109.58
6	1-K	758	VAL	CA-C-N	5.15	132.38	122.03
6	1-K	758	VAL	C-N-CA	5.15	132.38	122.03
1	2-A	364	PRO	CA-C-N	5.15	128.77	121.66
1	2-A	364	PRO	C-N-CA	5.15	128.77	121.66
1	2-A	578	VAL	N-CA-C	5.15	116.22	109.58
6	2-K	758	VAL	CA-C-N	5.15	132.38	122.03
6	2-K	758	VAL	C-N-CA	5.15	132.38	122.03
1	3-A	364	PRO	CA-C-N	5.15	128.77	121.66
1	3-A	364	PRO	C-N-CA	5.15	128.77	121.66
1	3-A	578	VAL	N-CA-C	5.15	116.22	109.58
6	1-K	609	ARG	N-CA-C	-5.15	105.67	111.28
6	2-K	609	ARG	N-CA-C	-5.15	105.67	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-B	390	ASP	CA-C-O	5.15	126.37	119.47
3	1-C	633	GLN	N-CA-C	-5.15	105.75	111.36
3	2-C	633	GLN	N-CA-C	-5.15	105.75	111.36
3	3-C	633	GLN	N-CA-C	-5.15	105.75	111.36
5	1-M	78	TRP	CA-C-O	5.15	125.72	119.49
5	2-M	78	TRP	CA-C-O	5.15	125.72	119.49
5	3-M	78	TRP	CA-C-O	5.15	125.72	119.49
2	1-B	333	LEU	N-CA-C	-5.14	105.75	111.36
2	2-B	333	LEU	N-CA-C	-5.14	105.75	111.36
6	1-G	647	VAL	N-CA-C	5.14	115.87	108.93
6	2-G	647	VAL	N-CA-C	5.14	115.87	108.93
5	1-F	120	ALA	N-CA-C	-5.14	99.41	108.20
6	1-K	607	ALA	CA-C-N	5.14	131.35	121.54
6	1-K	607	ALA	C-N-CA	5.14	131.35	121.54
5	2-F	120	ALA	N-CA-C	-5.14	99.41	108.20
6	2-K	118	ASP	N-CA-C	-5.14	105.76	111.36
6	2-K	607	ALA	CA-C-N	5.14	131.35	121.54
6	2-K	607	ALA	C-N-CA	5.14	131.35	121.54
3	1-C	58	LEU	CA-C-N	5.14	125.14	119.90
3	1-C	58	LEU	C-N-CA	5.14	125.14	119.90
3	1-C	555	ALA	N-CA-C	-5.14	100.51	108.42
6	1-G	815	ARG	CA-C-N	-5.14	113.93	122.92
6	1-G	815	ARG	C-N-CA	-5.14	113.93	122.92
3	2-C	58	LEU	CA-C-N	5.14	125.14	119.90
3	2-C	58	LEU	C-N-CA	5.14	125.14	119.90
3	2-C	555	ALA	N-CA-C	-5.14	100.51	108.42
6	2-G	815	ARG	CA-C-N	-5.14	113.93	122.92
6	2-G	815	ARG	C-N-CA	-5.14	113.93	122.92
3	3-C	58	LEU	CA-C-N	5.14	125.14	119.90
3	3-C	58	LEU	C-N-CA	5.14	125.14	119.90
3	3-C	555	ALA	N-CA-C	-5.14	100.51	108.42
6	3-G	815	ARG	CA-C-N	-5.14	113.93	122.92
6	3-G	815	ARG	C-N-CA	-5.14	113.93	122.92
3	1-C	634	ALA	N-CA-C	-5.13	105.68	111.28
6	1-K	802	GLY	N-CA-C	-5.13	106.20	112.77
3	2-C	634	ALA	N-CA-C	-5.13	105.68	111.28
6	2-K	127	ALA	CA-C-O	5.13	125.86	120.42
6	2-K	802	GLY	N-CA-C	-5.13	106.20	112.77
3	3-C	634	ALA	N-CA-C	-5.13	105.68	111.28
6	1-G	86	ARG	N-CA-C	5.13	116.56	111.07
6	2-G	86	ARG	N-CA-C	5.13	116.56	111.07
6	1-G	607	ALA	CA-C-N	5.13	131.34	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-G	607	ALA	C-N-CA	5.13	131.34	121.54
6	2-G	607	ALA	CA-C-N	5.13	131.34	121.54
6	2-G	607	ALA	C-N-CA	5.13	131.34	121.54
5	1-F	173	LEU	N-CA-C	5.13	116.56	111.07
6	1-G	609	ARG	N-CA-C	-5.13	105.69	111.28
5	2-F	173	LEU	N-CA-C	5.13	116.56	111.07
6	2-G	609	ARG	N-CA-C	-5.13	105.69	111.28
1	1-A	578	VAL	CA-C-N	-5.13	115.25	122.94
1	1-A	578	VAL	C-N-CA	-5.13	115.25	122.94
6	1-G	758	VAL	CA-C-N	5.13	132.34	122.03
6	1-G	758	VAL	C-N-CA	5.13	132.34	122.03
6	1-K	309	ARG	CA-C-N	5.13	131.34	121.54
6	1-K	309	ARG	C-N-CA	5.13	131.34	121.54
1	2-A	456	ILE	CA-C-N	5.13	131.33	121.54
1	2-A	456	ILE	C-N-CA	5.13	131.33	121.54
1	2-A	578	VAL	CA-C-N	-5.13	115.25	122.94
1	2-A	578	VAL	C-N-CA	-5.13	115.25	122.94
6	2-G	758	VAL	CA-C-N	5.13	132.34	122.03
6	2-G	758	VAL	C-N-CA	5.13	132.34	122.03
6	2-K	309	ARG	CA-C-N	5.13	131.34	121.54
6	2-K	309	ARG	C-N-CA	5.13	131.34	121.54
1	3-A	456	ILE	CA-C-N	5.13	131.33	121.54
1	3-A	456	ILE	C-N-CA	5.13	131.33	121.54
1	3-A	578	VAL	CA-C-N	-5.13	115.25	122.94
1	3-A	578	VAL	C-N-CA	-5.13	115.25	122.94
6	1-G	802	GLY	N-CA-C	-5.13	106.21	112.77
5	1-M	99	ARG	CA-C-O	5.13	125.35	119.35
6	2-G	802	GLY	N-CA-C	-5.13	106.21	112.77
5	2-M	99	ARG	CA-C-O	5.13	125.35	119.35
1	3-A	742	VAL	CA-C-N	5.13	130.41	122.26
1	3-A	742	VAL	C-N-CA	5.13	130.41	122.26
6	3-G	802	GLY	N-CA-C	-5.13	106.21	112.77
5	3-M	99	ARG	CA-C-O	5.13	125.35	119.35
3	1-C	405	ILE	CA-C-N	5.12	130.22	123.05
3	1-C	405	ILE	C-N-CA	5.12	130.22	123.05
3	2-C	405	ILE	CA-C-N	5.12	130.22	123.05
3	2-C	405	ILE	C-N-CA	5.12	130.22	123.05
3	3-C	405	ILE	CA-C-N	5.12	130.22	123.05
3	3-C	405	ILE	C-N-CA	5.12	130.22	123.05
5	1-R	133	ALA	N-CA-C	-5.12	99.89	110.80
6	1-K	664	ASP	O-C-N	-5.12	117.48	123.27
5	2-R	133	ALA	N-CA-C	-5.12	99.89	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-K	664	ASP	O-C-N	-5.12	117.48	123.27
5	3-R	133	ALA	N-CA-C	-5.12	99.89	110.80
2	1-B	464	ILE	CA-C-N	5.12	130.98	121.62
2	1-B	464	ILE	C-N-CA	5.12	130.98	121.62
1	2-A	427	ALA	N-CA-C	-5.12	101.13	108.60
1	3-A	427	ALA	N-CA-C	-5.12	101.13	108.60
2	3-B	464	ILE	CA-C-N	5.12	130.98	121.62
2	3-B	464	ILE	C-N-CA	5.12	130.98	121.62
5	1-M	41	GLU	O-C-N	5.12	129.39	123.30
5	2-M	41	GLU	O-C-N	5.12	129.39	123.30
5	3-M	41	GLU	O-C-N	5.12	129.39	123.30
3	1-C	241	LEU	N-CA-C	-5.11	98.52	109.81
3	2-C	241	LEU	N-CA-C	-5.11	98.52	109.81
5	1-R	97	ARG	N-CA-C	-5.11	106.45	113.30
5	2-R	97	ARG	N-CA-C	-5.11	106.45	113.30
5	3-R	97	ARG	N-CA-C	-5.11	106.45	113.30
1	2-A	700	PHE	CA-C-N	5.11	127.12	120.28
1	2-A	700	PHE	C-N-CA	5.11	127.12	120.28
1	3-A	700	PHE	CA-C-N	5.11	127.12	120.28
1	3-A	700	PHE	C-N-CA	5.11	127.12	120.28
6	1-G	317	LYS	N-CA-C	-5.11	101.32	109.23
6	2-G	317	LYS	N-CA-C	-5.11	101.32	109.23
6	1-G	213	LYS	N-CA-C	-5.10	105.90	111.82
6	2-G	213	LYS	N-CA-C	-5.10	105.90	111.82
6	2-K	64	THR	CA-C-O	5.10	126.18	120.82
6	3-G	213	LYS	N-CA-C	-5.10	105.90	111.82
6	1-G	96	SER	O-C-N	-5.10	115.80	122.59
6	2-G	96	SER	O-C-N	-5.10	115.80	122.59
7	1-Z	90	LEU	CA-C-N	5.10	127.11	120.28
7	1-Z	90	LEU	C-N-CA	5.10	127.11	120.28
7	2-Z	90	LEU	CA-C-N	5.10	127.11	120.28
7	2-Z	90	LEU	C-N-CA	5.10	127.11	120.28
4	1-D	81	GLU	N-CA-C	-5.10	105.72	111.28
4	2-D	81	GLU	N-CA-C	-5.10	105.72	111.28
4	3-D	81	GLU	N-CA-C	-5.10	105.72	111.28
3	1-C	171	GLN	N-CA-C	-5.09	101.57	109.72
3	2-C	171	GLN	N-CA-C	-5.09	101.57	109.72
3	3-C	171	GLN	N-CA-C	-5.09	101.57	109.72
1	3-A	787	ASP	CA-C-N	5.09	131.13	121.97
1	3-A	787	ASP	C-N-CA	5.09	131.13	121.97
3	1-C	835	VAL	N-CA-C	5.09	115.70	110.36
6	1-G	23	GLU	N-CA-C	-5.09	99.97	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	602	ALA	N-CA-C	-5.09	105.65	111.14
3	2-C	835	VAL	N-CA-C	5.09	115.70	110.36
6	2-G	23	GLU	N-CA-C	-5.09	99.97	110.80
1	3-A	602	ALA	N-CA-C	-5.09	105.65	111.14
2	3-B	38	GLU	N-CA-C	-5.09	105.74	111.28
3	3-C	835	VAL	N-CA-C	5.09	115.70	110.36
6	3-G	23	GLU	N-CA-C	-5.09	99.97	110.80
5	1-R	102	GLU	CA-C-O	5.08	125.81	120.42
5	2-R	102	GLU	CA-C-O	5.08	125.81	120.42
5	3-R	102	GLU	CA-C-O	5.08	125.81	120.42
6	1-K	38	PRO	N-CA-C	5.08	122.93	112.47
6	2-K	38	PRO	N-CA-C	5.08	122.93	112.47
6	2-G	790	THR	N-CA-C	-5.08	100.13	108.41
2	1-B	424	LEU	CA-C-N	5.08	131.24	121.54
2	1-B	424	LEU	C-N-CA	5.08	131.24	121.54
2	2-B	424	LEU	CA-C-N	5.08	131.24	121.54
2	2-B	424	LEU	C-N-CA	5.08	131.24	121.54
2	3-B	424	LEU	CA-C-N	5.08	131.24	121.54
2	3-B	424	LEU	C-N-CA	5.08	131.24	121.54
3	1-C	336	LYS	N-CA-C	5.08	117.25	110.35
3	2-C	336	LYS	N-CA-C	5.08	117.25	110.35
6	2-K	72	ALA	N-CA-C	5.08	116.50	111.07
3	3-C	336	LYS	N-CA-C	5.08	117.25	110.35
6	1-K	257	SER	CA-C-N	5.07	127.08	120.28
6	1-K	257	SER	C-N-CA	5.07	127.08	120.28
6	1-K	790	THR	N-CA-C	-5.07	100.14	108.41
7	1-L	45	GLU	N-CA-C	-5.07	105.75	111.28
1	2-A	652	ALA	N-CA-C	-5.07	105.75	111.28
6	2-G	364	ILE	CA-C-N	5.07	127.58	120.28
6	2-G	364	ILE	C-N-CA	5.07	127.58	120.28
6	2-K	257	SER	CA-C-N	5.07	127.08	120.28
6	2-K	257	SER	C-N-CA	5.07	127.08	120.28
6	2-K	790	THR	N-CA-C	-5.07	100.14	108.41
7	2-L	45	GLU	N-CA-C	-5.07	105.75	111.28
1	3-A	652	ALA	N-CA-C	-5.07	105.75	111.28
6	3-K	790	THR	N-CA-C	-5.07	100.14	108.41
7	3-L	45	GLU	N-CA-C	-5.07	105.75	111.28
2	1-B	346	THR	N-CA-C	-5.07	98.60	109.81
2	2-B	346	THR	N-CA-C	-5.07	98.60	109.81
2	3-B	346	THR	N-CA-C	-5.07	98.60	109.81
2	1-B	107	GLY	N-CA-C	-5.07	101.16	113.18
2	2-B	107	GLY	N-CA-C	-5.07	101.16	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	2-Z	52	THR	CA-C-N	5.07	131.23	121.54
7	2-Z	52	THR	C-N-CA	5.07	131.23	121.54
2	3-B	107	GLY	N-CA-C	-5.07	101.16	113.18
7	3-Z	52	THR	CA-C-N	5.07	131.23	121.54
7	3-Z	52	THR	C-N-CA	5.07	131.23	121.54
6	1-G	332	LEU	N-CA-C	-5.07	105.75	111.28
5	1-M	51	PHE	N-CA-C	5.07	121.60	110.80
6	2-G	332	LEU	N-CA-C	-5.07	105.75	111.28
5	2-M	51	PHE	N-CA-C	5.07	121.60	110.80
5	3-M	51	PHE	N-CA-C	5.07	121.60	110.80
6	2-K	236	ALA	CA-C-O	5.07	125.80	119.97
2	2-B	776	ALA	CA-C-N	5.06	127.90	120.71
2	2-B	776	ALA	C-N-CA	5.06	127.90	120.71
2	3-B	776	ALA	CA-C-N	5.06	127.90	120.71
2	3-B	776	ALA	C-N-CA	5.06	127.90	120.71
4	1-D	78	GLU	CA-C-O	5.06	126.14	120.82
7	1-L	78	TYR	N-CA-C	5.06	117.67	109.06
2	2-B	777	THR	N-CA-C	-5.06	102.89	110.23
4	2-D	78	GLU	CA-C-O	5.06	126.14	120.82
7	2-L	78	TYR	N-CA-C	5.06	117.67	109.06
2	3-B	777	THR	N-CA-C	-5.06	102.89	110.23
4	3-D	78	GLU	CA-C-O	5.06	126.14	120.82
7	3-L	78	TYR	N-CA-C	5.06	117.67	109.06
4	1-D	137	ASP	N-CA-C	-5.06	102.67	108.49
4	2-D	137	ASP	N-CA-C	-5.06	102.67	108.49
4	3-D	137	ASP	N-CA-C	-5.06	102.67	108.49
2	1-B	445	ARG	N-CA-C	5.06	121.57	110.80
2	3-B	445	ARG	N-CA-C	5.06	121.57	110.80
5	1-R	73	ARG	N-CA-C	-5.05	105.85	111.36
7	1-L	37	SER	CA-C-O	5.05	127.74	120.51
5	2-R	73	ARG	N-CA-C	-5.05	105.85	111.36
7	2-L	37	SER	CA-C-O	5.05	127.74	120.51
7	3-L	37	SER	CA-C-O	5.05	127.74	120.51
2	1-B	179	ARG	N-CA-C	5.05	116.59	111.14
6	1-K	792	SER	N-CA-C	5.05	120.07	113.30
2	2-B	179	ARG	N-CA-C	5.05	116.59	111.14
6	2-K	148	ILE	N-CA-C	-5.05	105.47	110.62
6	2-K	151	LYS	CA-C-N	-5.05	119.17	122.60
6	2-K	151	LYS	C-N-CA	-5.05	119.17	122.60
6	2-K	792	SER	N-CA-C	5.05	120.07	113.30
2	3-B	179	ARG	N-CA-C	5.05	116.59	111.14
6	3-K	792	SER	N-CA-C	5.05	120.07	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-K	307	ALA	N-CA-C	-5.05	105.67	111.07
7	2-Z	140	GLN	CA-C-O	5.05	125.77	120.42
6	2-K	307	ALA	N-CA-C	-5.05	105.67	111.07
3	2-C	808	GLU	CA-C-N	5.05	127.04	120.28
3	2-C	808	GLU	C-N-CA	5.05	127.04	120.28
5	1-M	157	ALA	N-CA-C	5.05	117.53	109.96
1	2-A	679	GLU	N-CA-C	-5.05	105.69	111.14
5	2-M	157	ALA	N-CA-C	5.05	117.53	109.96
1	3-A	679	GLU	N-CA-C	-5.05	105.69	111.14
5	3-M	157	ALA	N-CA-C	5.05	117.53	109.96
1	3-A	778	PHE	O-C-N	5.04	127.34	122.09
2	2-B	546	ARG	N-CA-C	5.04	118.04	109.06
6	2-K	212	SER	N-CA-C	-5.04	105.67	111.07
2	3-B	546	ARG	N-CA-C	5.04	118.04	109.06
1	1-A	732	HIS	CA-C-O	5.04	125.58	119.38
4	1-D	129	GLN	N-CA-C	-5.04	105.78	111.28
1	2-A	732	HIS	CA-C-O	5.04	125.58	119.38
4	2-D	129	GLN	N-CA-C	-5.04	105.78	111.28
1	3-A	732	HIS	CA-C-O	5.04	125.58	119.38
4	3-D	129	GLN	N-CA-C	-5.04	105.78	111.28
6	1-G	247	ARG	CA-C-N	-5.04	111.92	121.54
6	1-G	247	ARG	C-N-CA	-5.04	111.92	121.54
6	2-G	247	ARG	CA-C-N	-5.04	111.92	121.54
6	2-G	247	ARG	C-N-CA	-5.04	111.92	121.54
4	1-D	98	GLU	CA-C-N	5.04	127.03	120.28
4	1-D	98	GLU	C-N-CA	5.04	127.03	120.28
5	1-F	50	GLY	CA-C-N	5.04	127.92	120.82
5	1-F	50	GLY	C-N-CA	5.04	127.92	120.82
4	2-D	98	GLU	CA-C-N	5.04	127.03	120.28
4	2-D	98	GLU	C-N-CA	5.04	127.03	120.28
5	2-F	50	GLY	CA-C-N	5.04	127.92	120.82
5	2-F	50	GLY	C-N-CA	5.04	127.92	120.82
4	3-D	98	GLU	CA-C-N	5.04	127.03	120.28
4	3-D	98	GLU	C-N-CA	5.04	127.03	120.28
3	1-C	684	SER	CA-C-O	5.03	126.11	120.82
4	1-D	26	ARG	N-CA-C	-5.03	101.76	108.86
7	1-Z	14	LYS	N-CA-C	-5.03	105.26	111.40
3	2-C	684	SER	CA-C-O	5.03	126.11	120.82
4	2-D	26	ARG	N-CA-C	-5.03	101.76	108.86
7	2-Z	14	LYS	N-CA-C	-5.03	105.26	111.40
6	2-K	182	GLN	N-CA-C	5.03	116.77	111.28
3	3-C	684	SER	CA-C-O	5.03	126.11	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-D	26	ARG	N-CA-C	-5.03	101.76	108.86
7	3-Z	14	LYS	N-CA-C	-5.03	105.26	111.40
6	2-G	792	SER	N-CA-C	5.03	120.04	113.30
2	1-B	234	PHE	N-CA-C	5.03	118.22	110.42
3	1-C	719	ALA	N-CA-C	-5.03	105.80	111.28
2	2-B	234	PHE	N-CA-C	5.03	118.22	110.42
3	2-C	719	ALA	N-CA-C	-5.03	105.80	111.28
2	3-B	234	PHE	N-CA-C	5.03	118.22	110.42
3	3-C	719	ALA	N-CA-C	-5.03	105.80	111.28
2	1-B	440	ARG	CA-C-N	5.03	127.02	120.28
2	1-B	440	ARG	C-N-CA	5.03	127.02	120.28
5	2-R	66	TRP	N-CA-C	5.03	116.80	108.20
2	3-B	440	ARG	CA-C-N	5.03	127.02	120.28
2	3-B	440	ARG	C-N-CA	5.03	127.02	120.28
6	1-K	742	ILE	N-CA-C	-5.03	100.29	107.78
6	2-K	742	ILE	N-CA-C	-5.03	100.29	107.78
6	3-K	742	ILE	N-CA-C	-5.03	100.29	107.78
1	2-A	142	GLN	CA-C-N	5.03	129.73	121.39
1	2-A	142	GLN	C-N-CA	5.03	129.73	121.39
1	3-A	142	GLN	CA-C-N	5.03	129.73	121.39
1	3-A	142	GLN	C-N-CA	5.03	129.73	121.39
3	1-C	203	ILE	CA-C-N	5.02	130.58	122.29
3	1-C	203	ILE	C-N-CA	5.02	130.58	122.29
6	1-G	742	ILE	N-CA-C	-5.02	100.29	107.78
1	2-A	438	LYS	O-C-N	-5.02	117.43	123.31
3	2-C	203	ILE	CA-C-N	5.02	130.58	122.29
3	2-C	203	ILE	C-N-CA	5.02	130.58	122.29
6	2-G	742	ILE	N-CA-C	-5.02	100.29	107.78
1	3-A	438	LYS	O-C-N	-5.02	117.43	123.31
7	2-Z	45	GLU	N-CA-C	-5.02	105.89	111.36
7	3-Z	45	GLU	N-CA-C	-5.02	105.89	111.36
1	2-A	462	GLY	CA-C-O	-5.02	116.86	121.63
1	3-A	462	GLY	CA-C-O	-5.02	116.86	121.63
3	1-C	168	LYS	N-CA-C	-5.02	100.72	108.90
3	1-C	588	LEU	CA-C-N	5.02	127.34	120.46
3	1-C	588	LEU	C-N-CA	5.02	127.34	120.46
3	2-C	168	LYS	N-CA-C	-5.02	100.72	108.90
3	2-C	588	LEU	CA-C-N	5.02	127.34	120.46
3	2-C	588	LEU	C-N-CA	5.02	127.34	120.46
3	3-C	168	LYS	N-CA-C	-5.02	100.72	108.90
3	3-C	588	LEU	CA-C-N	5.02	127.34	120.46
3	3-C	588	LEU	C-N-CA	5.02	127.34	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	431	ARG	N-CA-C	-5.01	102.06	109.83
1	3-A	431	ARG	N-CA-C	-5.01	102.06	109.83
3	1-C	16	ASP	CA-C-N	5.01	130.29	122.17
3	1-C	16	ASP	C-N-CA	5.01	130.29	122.17
3	1-C	362	PRO	CA-C-N	5.01	131.11	121.54
3	1-C	362	PRO	C-N-CA	5.01	131.11	121.54
3	2-C	16	ASP	CA-C-N	5.01	130.29	122.17
3	2-C	16	ASP	C-N-CA	5.01	130.29	122.17
3	3-C	16	ASP	CA-C-N	5.01	130.29	122.17
3	3-C	16	ASP	C-N-CA	5.01	130.29	122.17
3	3-C	362	PRO	CA-C-N	5.01	131.11	121.54
3	3-C	362	PRO	C-N-CA	5.01	131.11	121.54
2	1-B	182	GLU	CA-C-N	5.01	131.11	121.54
2	1-B	182	GLU	C-N-CA	5.01	131.11	121.54
2	2-B	182	GLU	CA-C-N	5.01	131.11	121.54
2	2-B	182	GLU	C-N-CA	5.01	131.11	121.54
2	3-B	182	GLU	CA-C-N	5.01	131.11	121.54
2	3-B	182	GLU	C-N-CA	5.01	131.11	121.54
3	1-C	565	GLY	CA-C-N	-5.01	116.04	123.05
3	1-C	565	GLY	C-N-CA	-5.01	116.04	123.05
3	1-C	765	GLN	N-CA-C	-5.01	106.43	112.54
3	2-C	565	GLY	CA-C-N	-5.01	116.04	123.05
3	2-C	565	GLY	C-N-CA	-5.01	116.04	123.05
3	2-C	765	GLN	N-CA-C	-5.01	106.43	112.54
6	2-K	167	LEU	CA-C-N	5.01	127.26	120.65
6	2-K	167	LEU	C-N-CA	5.01	127.26	120.65
3	3-C	565	GLY	CA-C-N	-5.01	116.04	123.05
3	3-C	565	GLY	C-N-CA	-5.01	116.04	123.05
3	3-C	765	GLN	N-CA-C	-5.01	106.43	112.54
3	1-C	312	GLY	N-CA-C	-5.01	101.31	113.18
6	1-G	87	MET	CA-C-N	5.01	126.99	120.28
6	1-G	87	MET	C-N-CA	5.01	126.99	120.28
6	1-G	121	ARG	N-CA-C	-5.01	105.71	111.07
3	2-C	312	GLY	N-CA-C	-5.01	101.31	113.18
3	2-C	672	GLN	CA-C-N	5.01	127.40	120.29
3	2-C	672	GLN	C-N-CA	5.01	127.40	120.29
6	2-G	87	MET	CA-C-N	5.01	126.99	120.28
6	2-G	87	MET	C-N-CA	5.01	126.99	120.28
6	2-G	121	ARG	N-CA-C	-5.01	105.71	111.07
3	3-C	312	GLY	N-CA-C	-5.01	101.31	113.18
3	3-C	672	GLN	CA-C-N	5.01	127.40	120.29
3	3-C	672	GLN	C-N-CA	5.01	127.40	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	1-L	89	MET	CA-C-O	5.00	125.72	120.42
7	2-L	89	MET	CA-C-O	5.00	125.72	120.42
7	3-L	89	MET	CA-C-O	5.00	125.72	120.42
2	1-B	188	ALA	N-CA-C	5.00	119.76	113.25
5	1-M	61	ILE	CA-C-O	-5.00	115.03	120.84
1	2-A	404	ASN	CA-C-N	5.00	126.00	120.45
1	2-A	404	ASN	C-N-CA	5.00	126.00	120.45
2	2-B	188	ALA	N-CA-C	5.00	119.76	113.25
5	2-M	61	ILE	CA-C-O	-5.00	115.03	120.84
1	3-A	404	ASN	CA-C-N	5.00	126.00	120.45
1	3-A	404	ASN	C-N-CA	5.00	126.00	120.45
2	3-B	188	ALA	N-CA-C	5.00	119.76	113.25
5	3-M	61	ILE	CA-C-O	-5.00	115.03	120.84
3	1-C	392	GLN	N-CA-C	-5.00	100.15	110.80
3	1-C	790	ASP	O-C-N	-5.00	115.57	121.32
3	2-C	392	GLN	N-CA-C	-5.00	100.15	110.80
3	2-C	790	ASP	O-C-N	-5.00	115.57	121.32
3	3-C	392	GLN	N-CA-C	-5.00	100.15	110.80
3	3-C	790	ASP	O-C-N	-5.00	115.57	121.32

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1-B	898	ALA	Peptide
2	1-B	903	CYS	Peptide
2	1-B	938	VAL	Mainchain
2	2-B	898	ALA	Peptide
2	2-B	903	CYS	Peptide
2	2-B	938	VAL	Mainchain
2	3-B	898	ALA	Peptide
2	3-B	903	CYS	Peptide
2	3-B	938	VAL	Mainchain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	3251	0	0	0	0
1	2-A	3251	0	0	0	0
1	3-A	3251	0	65	0	0
2	1-B	3198	0	0	0	0
2	2-B	3198	0	0	0	0
2	3-B	3198	0	0	0	0
3	1-C	3371	0	0	0	0
3	2-C	3371	0	0	0	0
3	3-C	3371	0	0	0	0
4	1-D	1707	0	0	0	0
4	2-D	1707	0	0	0	0
4	3-D	1707	0	0	0	0
5	1-F	635	0	0	0	0
5	1-M	635	0	0	0	0
5	1-R	635	0	0	0	0
5	2-F	635	0	0	0	0
5	2-M	635	0	0	0	0
5	2-R	635	0	0	0	0
5	3-F	635	0	0	0	0
5	3-M	635	0	0	0	0
5	3-R	635	0	0	0	0
6	1-G	3190	0	0	0	0
6	1-K	2239	0	0	0	0
6	2-G	3190	0	0	0	0
6	2-K	2239	0	0	0	0
6	3-G	3190	0	0	0	0
6	3-K	2239	0	0	0	0
7	1-L	555	0	0	0	0
7	1-Z	555	0	0	0	0
7	2-L	555	0	0	0	0
7	2-Z	555	0	0	0	0
7	3-L	555	0	0	0	0
7	3-Z	555	0	0	0	0
All	All	59913	0	65	0	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). Clashscore could not be calculated for this entry.

There are no clashes within the asymmetric unit.

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-3723. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

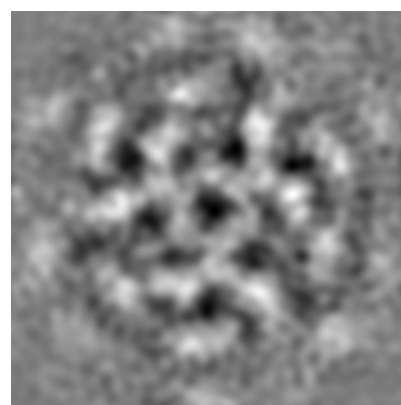
6.1.1 Primary map



X



Y



Z

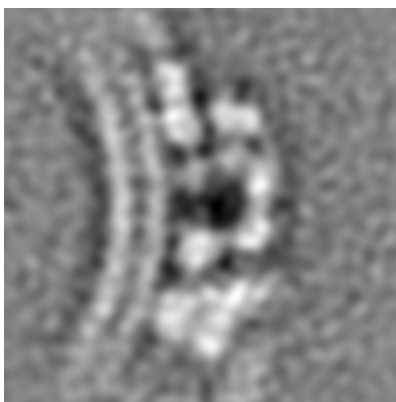
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

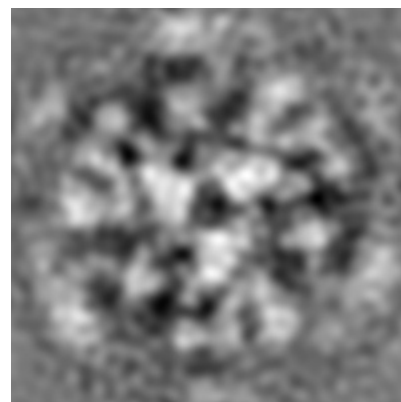
6.2.1 Primary map



X Index: 106



Y Index: 106



Z Index: 106

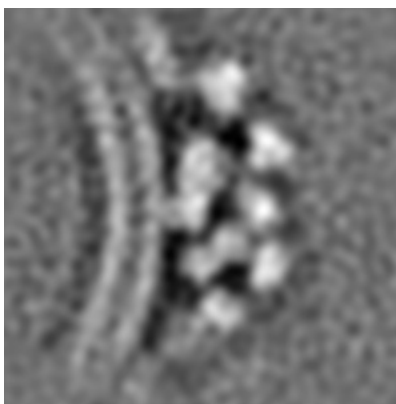
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

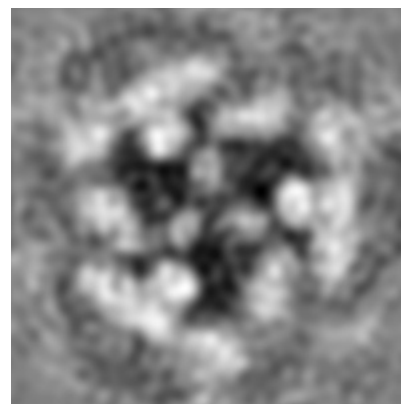
6.3.1 Primary map



X Index: 105



Y Index: 127

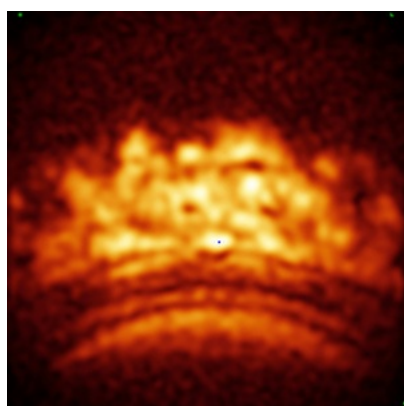


Z Index: 89

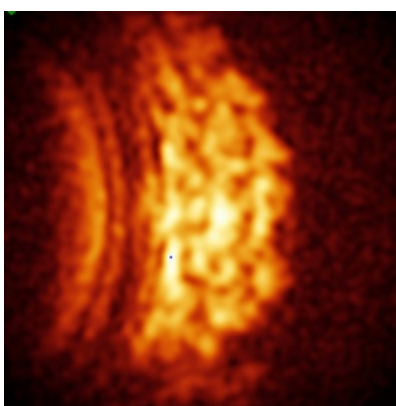
The images above show the largest variance slices of the map in three orthogonal directions.

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

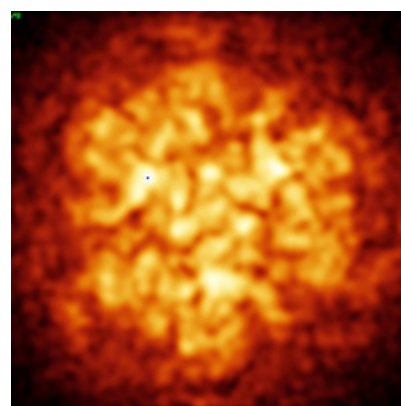
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

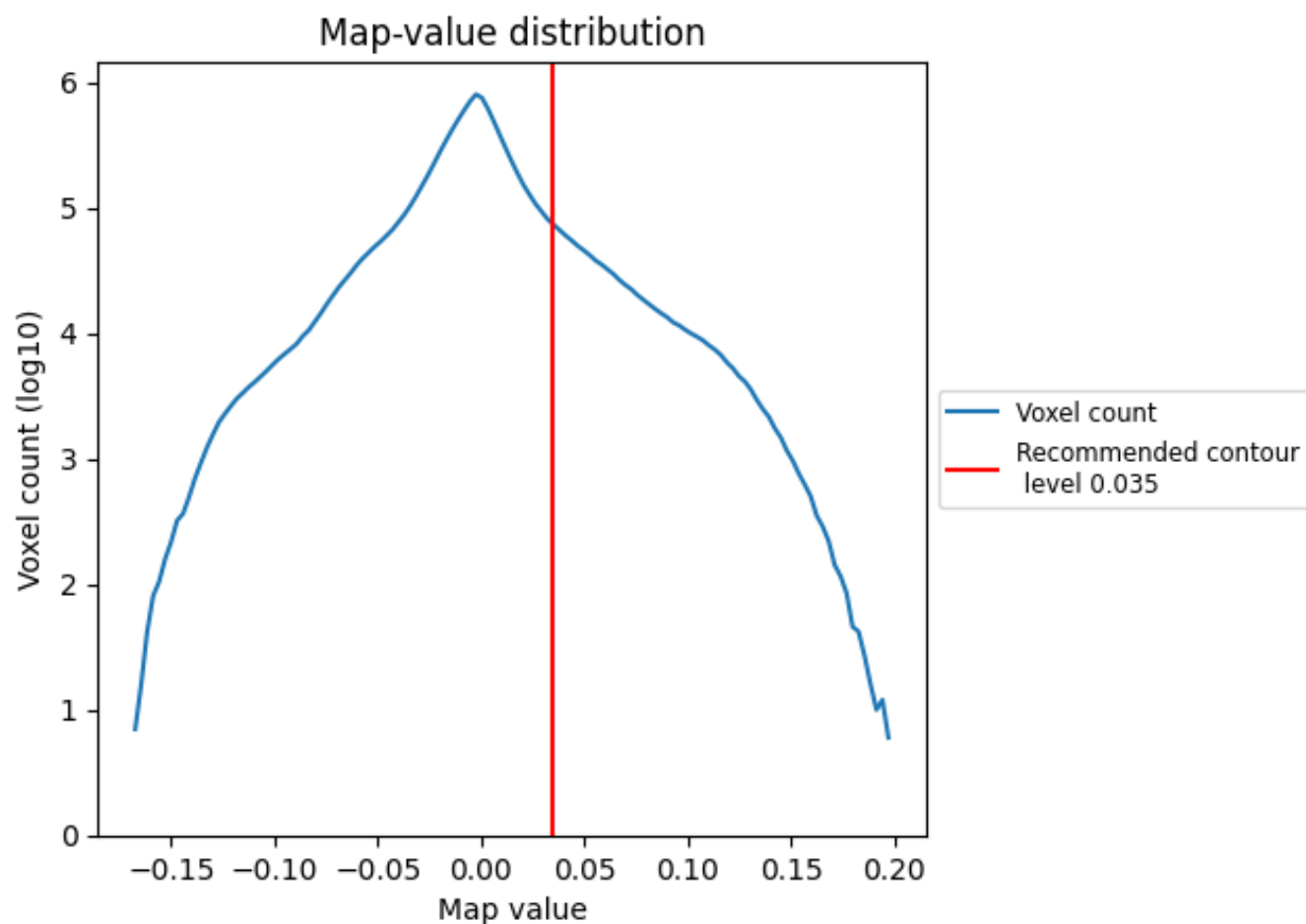
6.6 Mask visualisation

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

7 Map analysis [i](#)

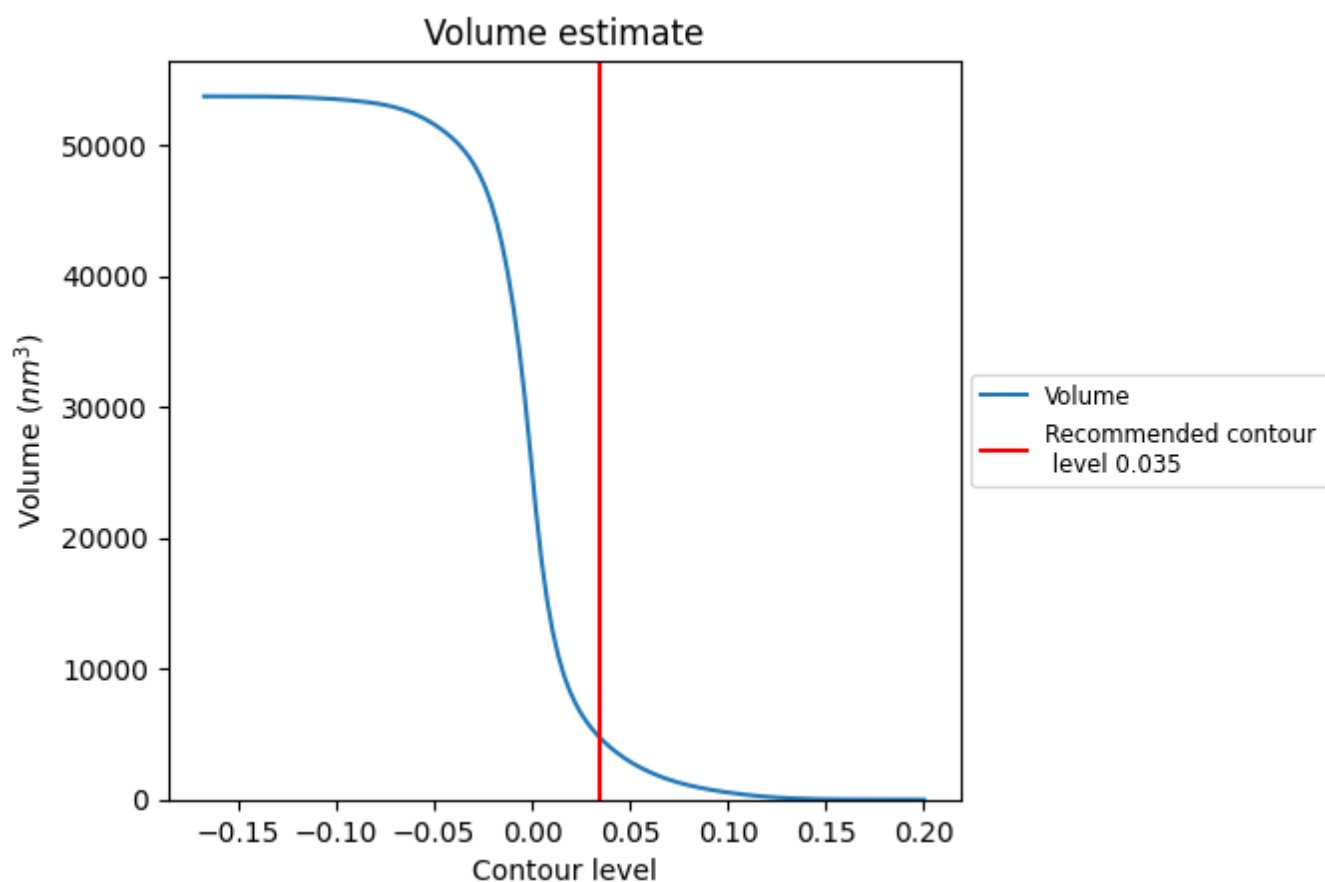
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

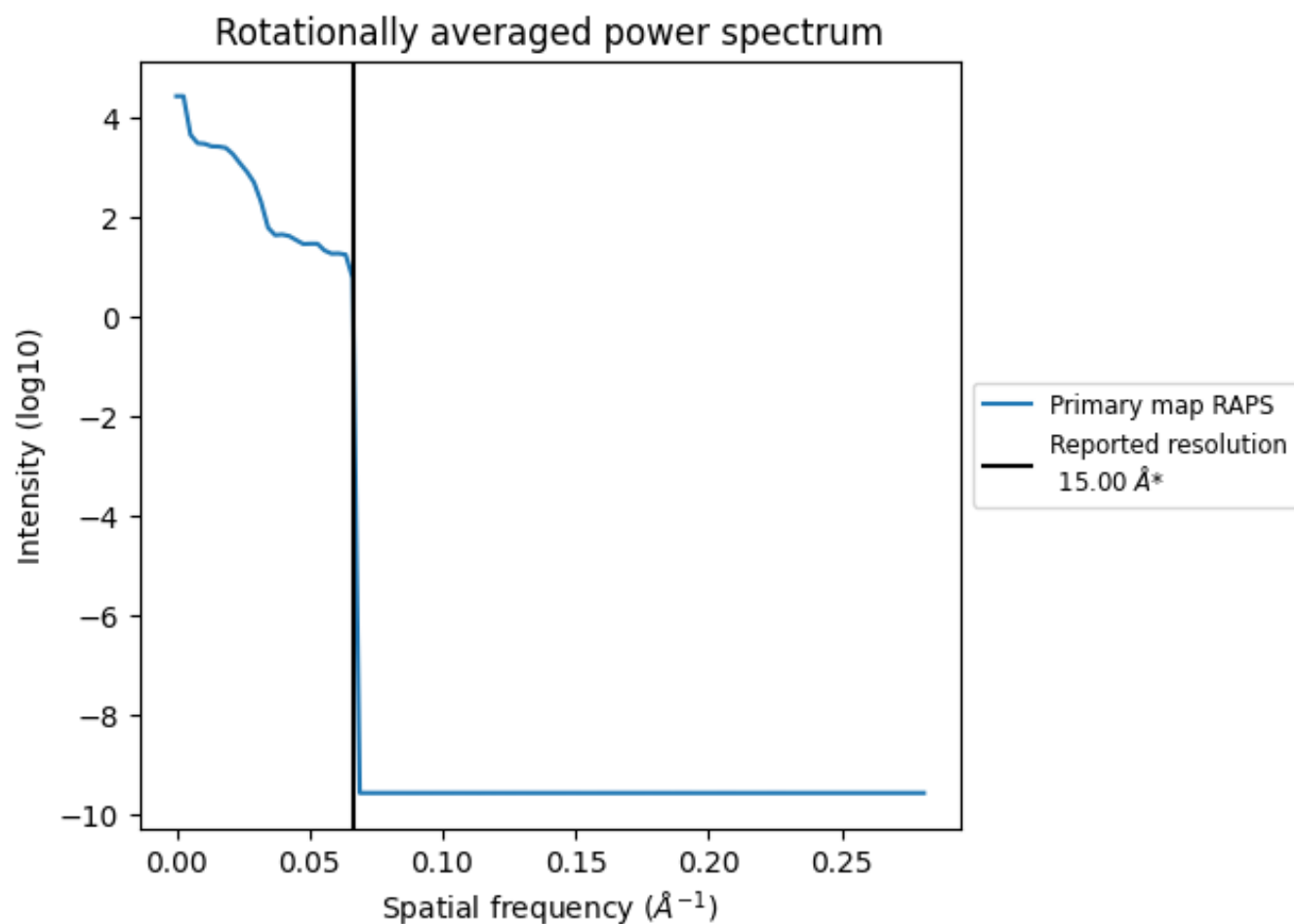
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4694 nm³; this corresponds to an approximate mass of 4240 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

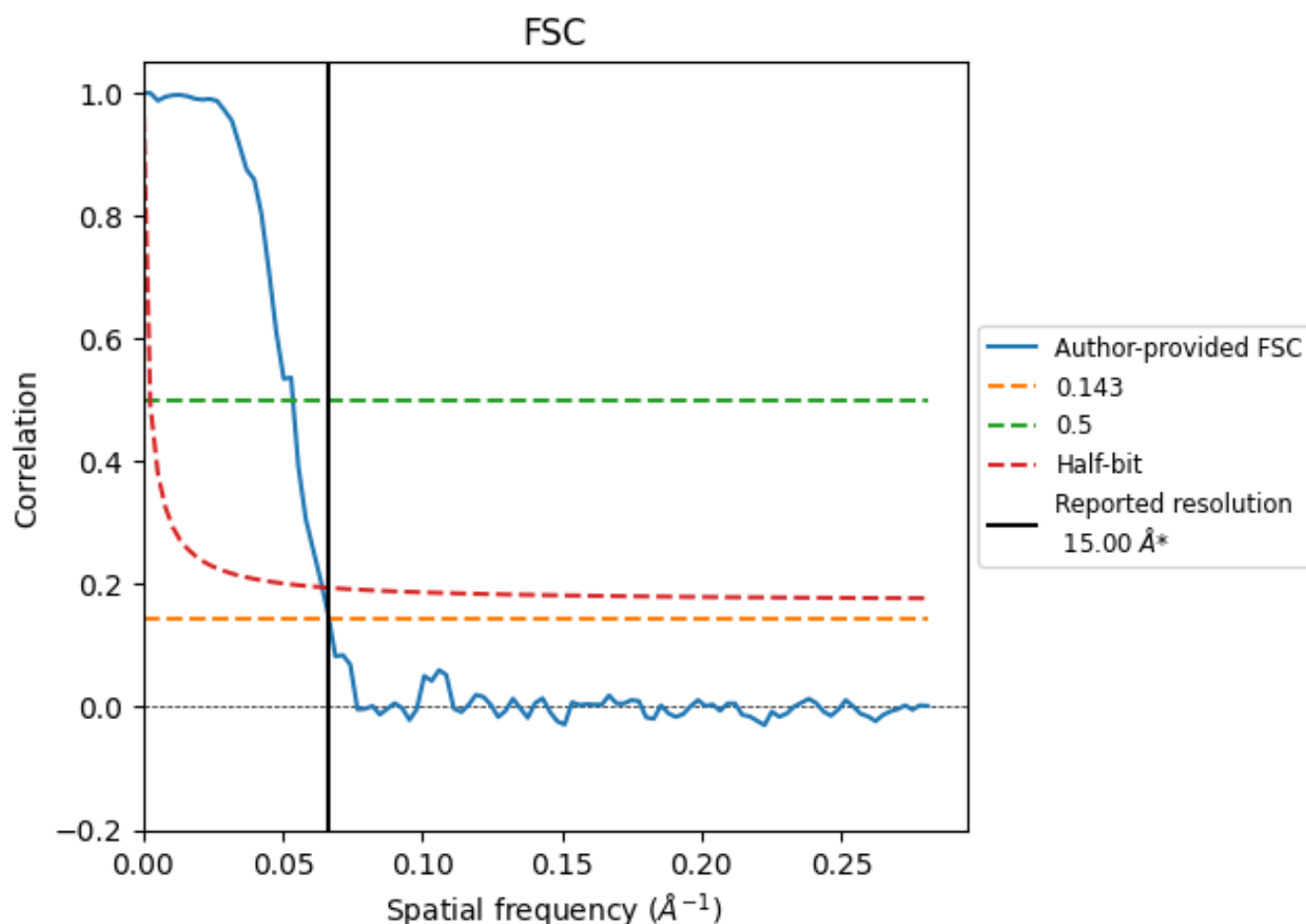


*Reported resolution corresponds to spatial frequency of 0.067 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.067 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	15.00	-	-
Author-provided FSC curve	15.02	18.62	15.58
Unmasked-calculated*	-	-	-

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

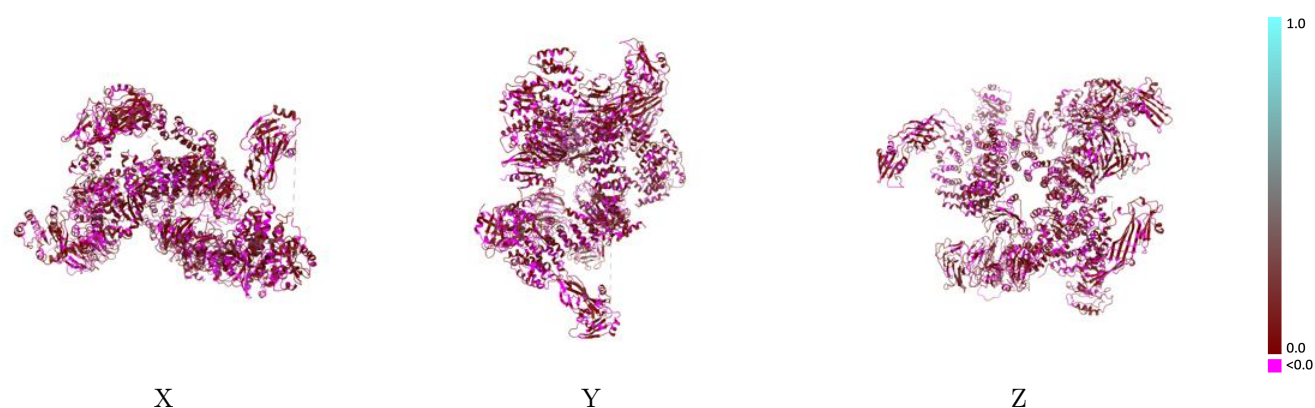
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-3723 and PDB model 5NZU. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)

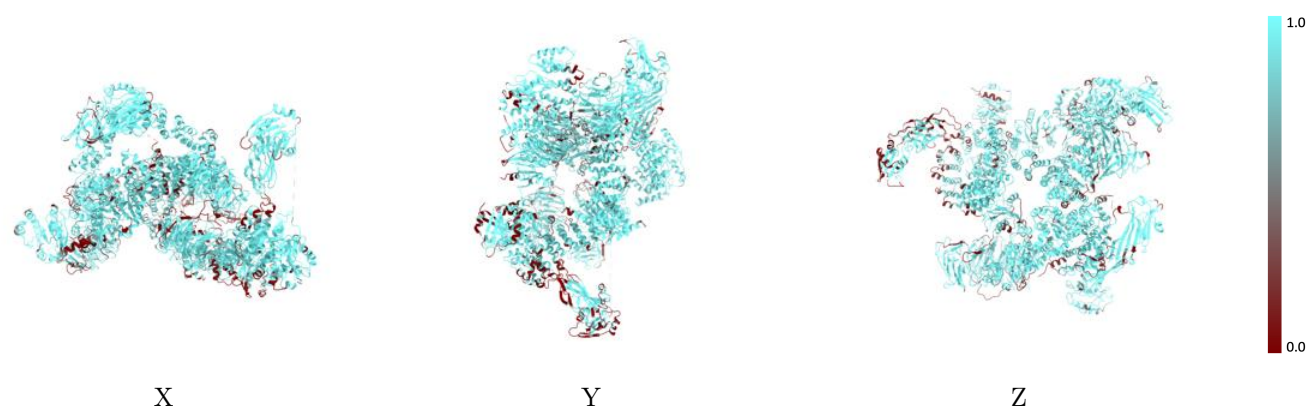
This section was not generated.

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



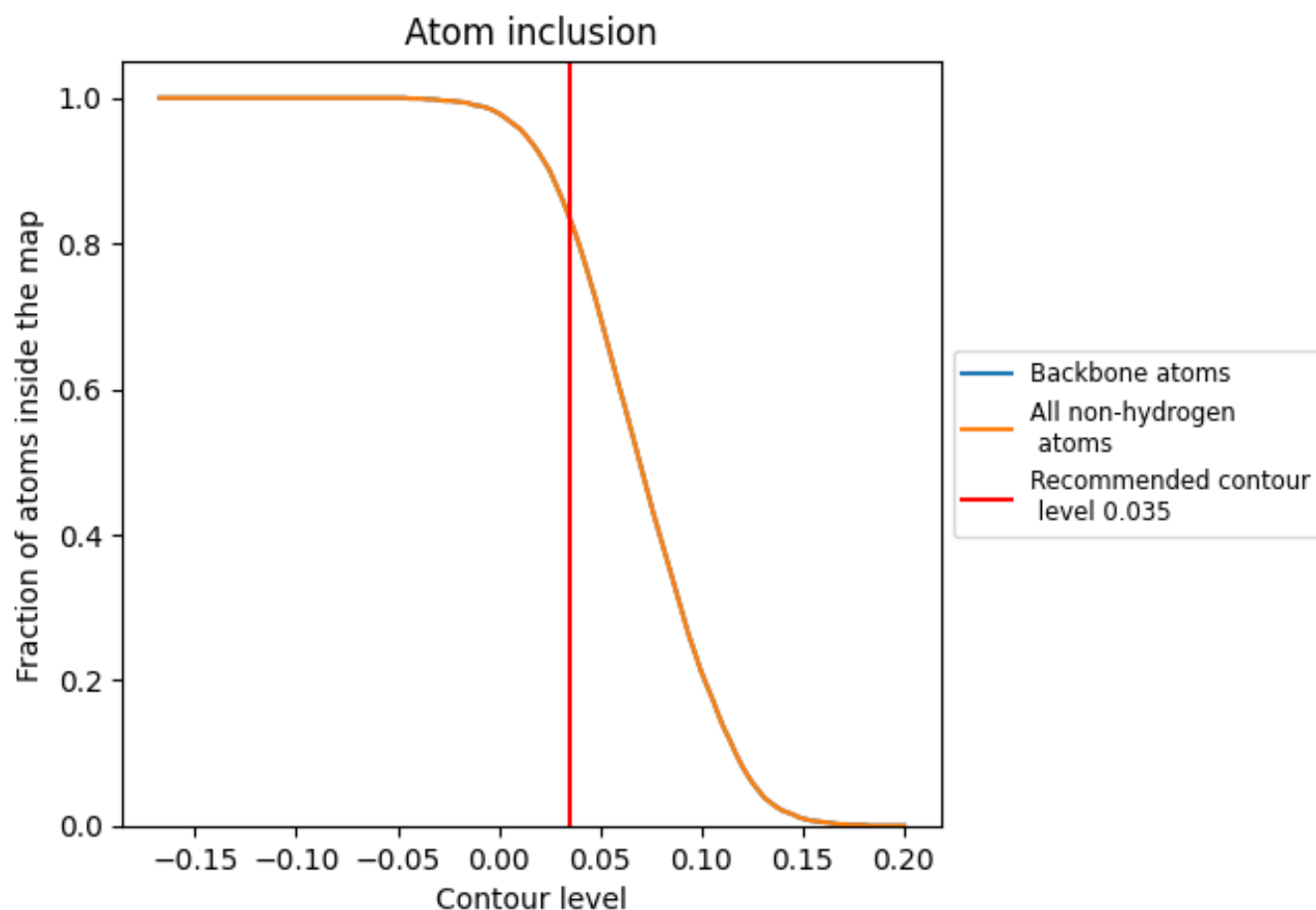
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 84% of all backbone atoms, 84% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	0.8350	0.0620
A	0.8870	0.0630
B	0.8320	0.0600
C	0.8960	0.0730
D	0.8120	0.0670
F	0.9180	0.0700
G	0.7040	0.0520
K	0.8780	0.0620
L	0.8110	0.0430
M	0.8940	0.0640
R	0.7370	0.0530
Z	0.8130	0.0640

1.0

0.0

<0.0