



Full wwPDB EM Validation Report ⓘ

Mar 30, 2026 – 02:20 AM UTC

PDB ID : 6YL3 / pdb_00006yl3
EMDB ID : EMD-10835
Title : High resolution cryo-EM structure of urease from the pathogen *Yersinia enterocolitica*
Authors : Righetto, R.D.; Anton, L.; Adaixo, R.; Jakob, R.; Zivanov, J.; Mahi, M.A.; Ringler, P.; Schwede, T.; Maier, T.; Stahlberg, H.
Deposited on : 2020-04-06
Resolution : 1.98 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:

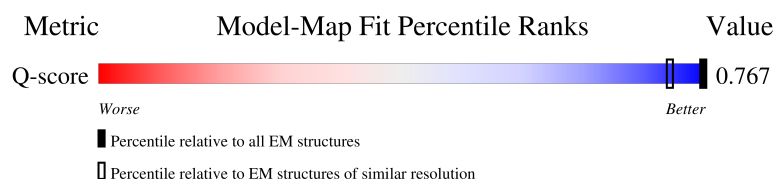
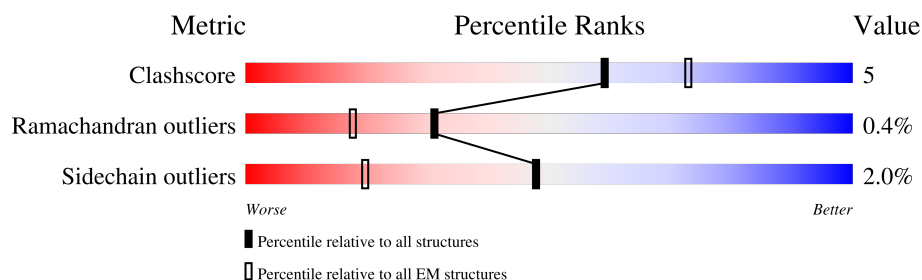
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
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 1.98 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



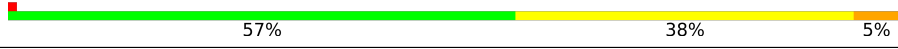
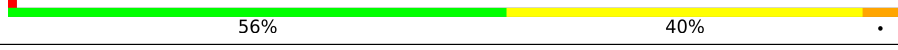
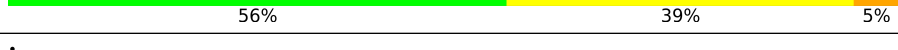
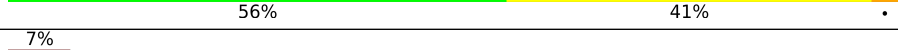
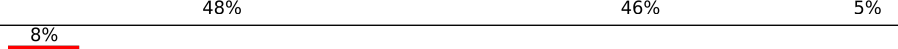
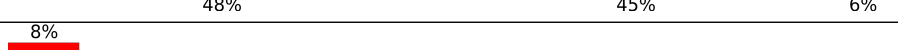
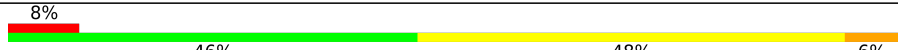
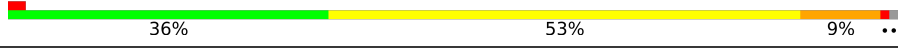
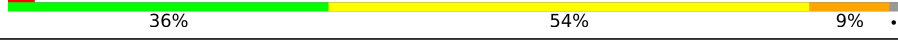
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	1383 (1.50 - 2.48)

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	2	100	
1	5	100	
1	8	100	
1	A	100	

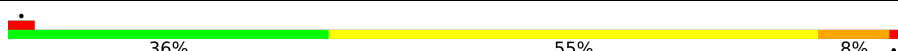
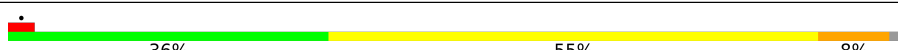
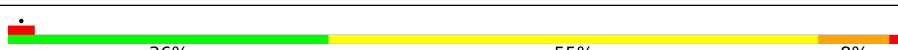
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Mol	Chain	Length	Quality of chain
1	D	100	
1	G	100	
1	J	100	
1	M	100	
1	P	100	
1	S	100	
1	W	100	
1	Z	100	
2	0	132	
2	3	132	
2	6	132	
2	9	132	
2	B	132	
2	E	132	
2	H	132	
2	K	132	
2	N	132	
2	Q	132	
2	T	132	
2	X	132	
3	1	571	
3	4	571	
3	7	571	
3	C	571	
3	F	571	

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Mol	Chain	Length	Quality of chain
3	I	571	
3	L	571	
3	O	571	
3	R	571	
3	U	571	
3	V	571	
3	Y	571	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 150276 atoms, of which 73164 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 Urease subunit gamma.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	D	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	G	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	J	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	M	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	P	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	S	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	W	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	Z	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	2	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	5	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		
1	8	100	Total	C	H	N	O	S	8	0
			1661	509	856	136	154	6		

- Molecule 2 is a protein called Urease subunit beta.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	B	132	Total	C	H	N	O	S	2	0
			2061	654	1019	190	197	1		
2	E	132	Total	C	H	N	O	S	2	0
			2061	654	1019	190	197	1		
2	H	132	Total	C	H	N	O	S	2	0
			2061	654	1019	190	197	1		

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Mol	Chain	Residues	Atoms						AltConf	Trace
2	K	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	N	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	Q	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	T	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	X	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	0	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	3	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	6	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0
2	9	132	Total 2061	C 654	H 1019	N 190	O 197	S 1	2	0

- Molecule 3 is a protein called Urease subunit alpha.

Mol	Chain	Residues	Atoms						AltConf	Trace
3	C	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	F	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	I	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	L	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	O	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	R	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	V	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	Y	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	1	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0
3	4	564	Total 8493	C 2669	H 4222	N 756	O 818	S 28	10	0

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Mol	Chain	Residues	Atoms						AltConf	Trace
3	7	564	Total	C	H	N	O	S	10	0
			8493	2669	4222	756	818	28		
3	U	564	Total	C	H	N	O	S	10	0
			8493	2669	4222	756	818	28		

- Molecule 4 is NICKEL (II) ION (CCD ID: NI) (formula: Ni).

Mol	Chain	Residues	Atoms		AltConf
4	C	2	Total	Ni	0
			2	2	
4	F	2	Total	Ni	0
			2	2	
4	I	2	Total	Ni	0
			2	2	
4	L	2	Total	Ni	0
			2	2	
4	O	2	Total	Ni	0
			2	2	
4	R	2	Total	Ni	0
			2	2	
4	V	2	Total	Ni	0
			2	2	
4	Y	2	Total	Ni	0
			2	2	
4	1	2	Total	Ni	0
			2	2	
4	4	2	Total	Ni	0
			2	2	
4	7	2	Total	Ni	0
			2	2	
4	U	2	Total	Ni	0
			2	2	

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		AltConf
5	A	25	Total	O	0
			25	25	
5	B	59	Total	O	0
			59	59	
5	C	224	Total	O	0
			224	224	

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Mol	Chain	Residues	Atoms		AltConf
5	D	25	Total 25	O 25	0
5	E	59	Total 59	O 59	0
5	F	225	Total 225	O 225	0
5	G	27	Total 27	O 27	0
5	H	58	Total 58	O 58	0
5	I	227	Total 227	O 227	0
5	J	25	Total 25	O 25	0
5	K	59	Total 59	O 59	0
5	L	227	Total 227	O 227	0
5	M	25	Total 25	O 25	0
5	N	57	Total 57	O 57	0
5	O	222	Total 222	O 222	0
5	P	25	Total 25	O 25	0
5	Q	57	Total 57	O 57	0
5	R	216	Total 216	O 216	0
5	S	25	Total 25	O 25	0
5	T	58	Total 58	O 58	0
5	V	227	Total 227	O 227	0
5	W	25	Total 25	O 25	0
5	X	58	Total 58	O 58	0
5	Y	226	Total 226	O 226	0

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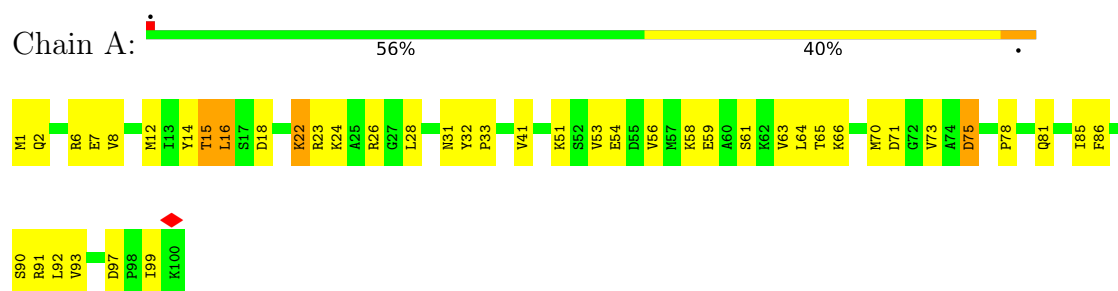
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Mol	Chain	Residues	Atoms		AltConf
5	Z	26	Total 26	O 26	0
5	0	57	Total 57	O 57	0
5	1	224	Total 224	O 224	0
5	2	25	Total 25	O 25	0
5	3	57	Total 57	O 57	0
5	4	216	Total 216	O 216	0
5	5	25	Total 25	O 25	0
5	6	57	Total 57	O 57	0
5	7	220	Total 220	O 220	0
5	8	25	Total 25	O 25	0
5	9	56	Total 56	O 56	0
5	U	223	Total 223	O 223	0

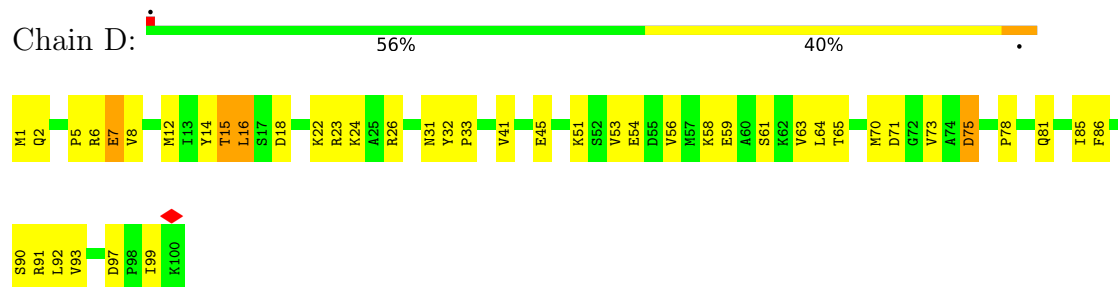
3 Residue-property plots [i](#)

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

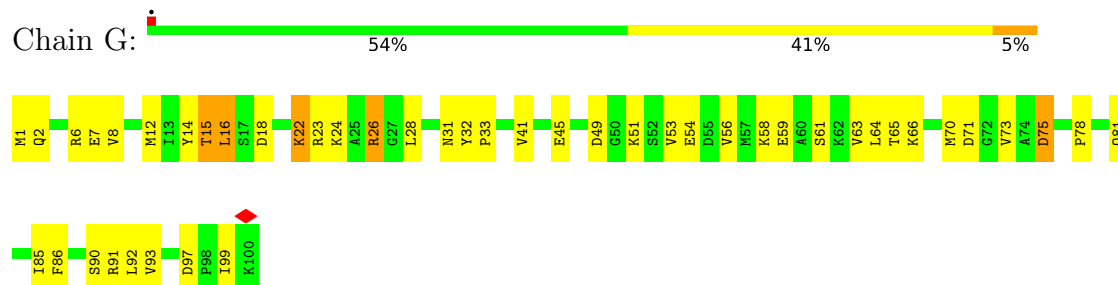
- Molecule 1: Urease subunit gamma



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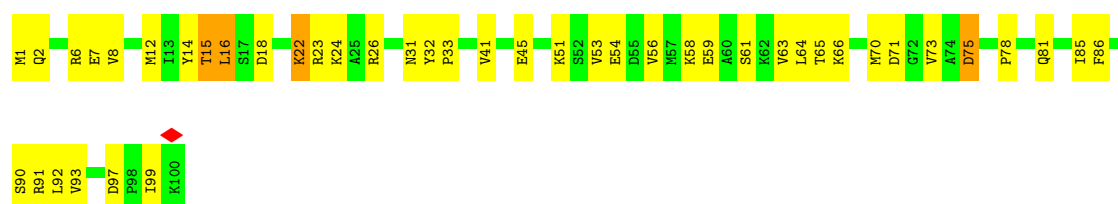




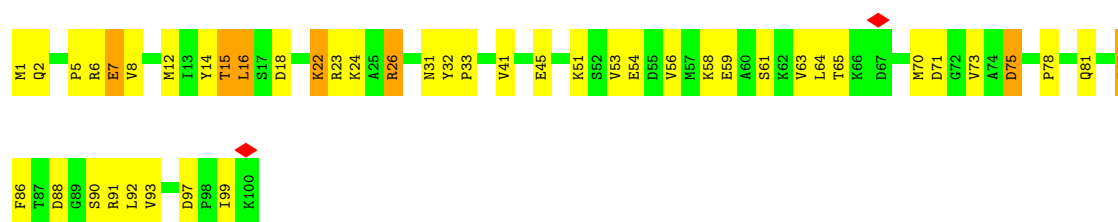
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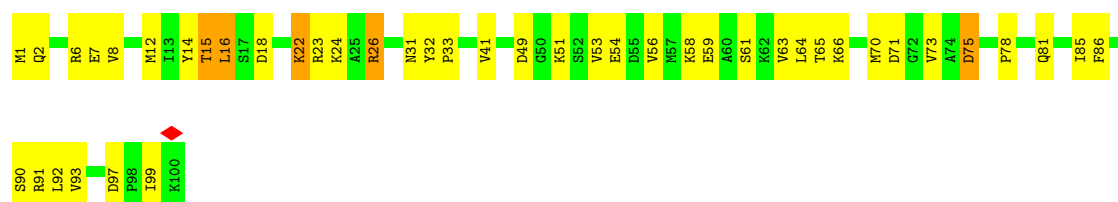
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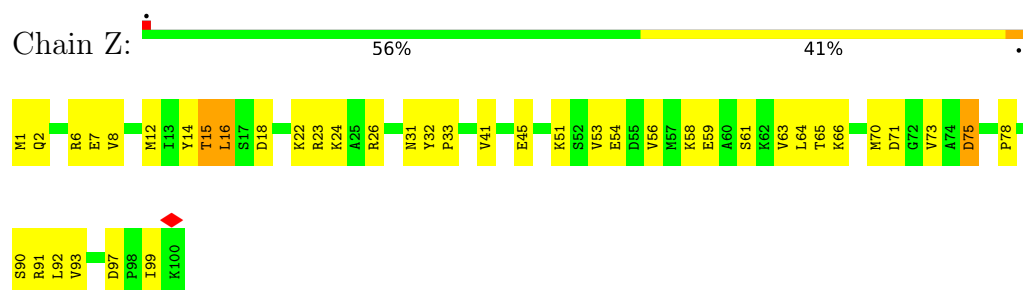
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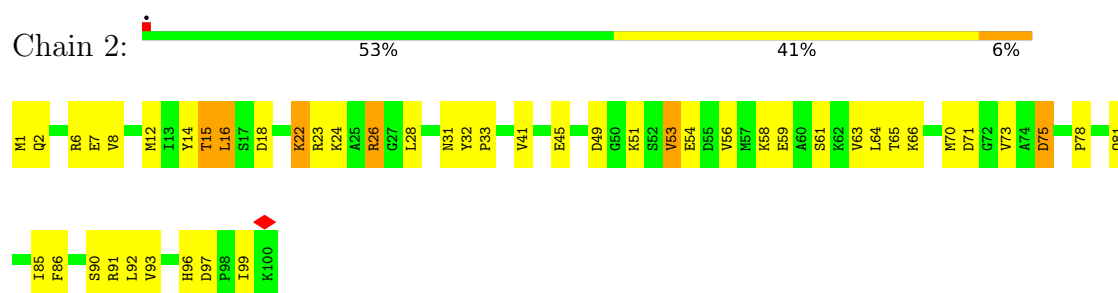
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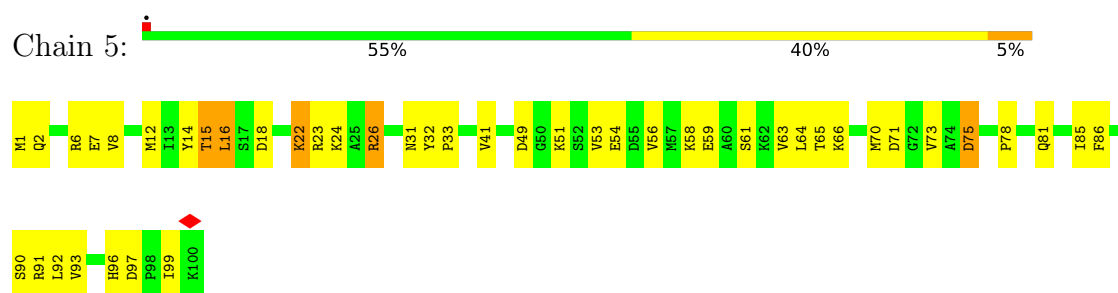
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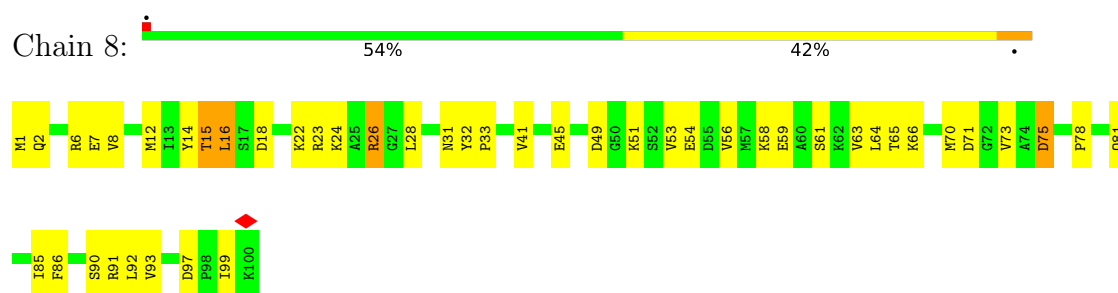
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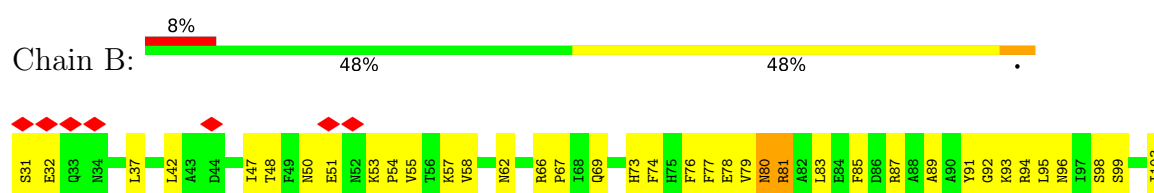
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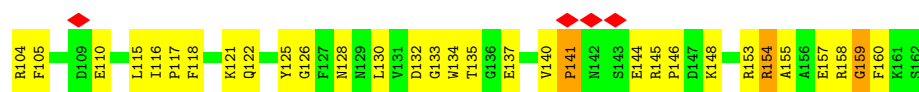


- Molecule 1: Urease subunit gamma

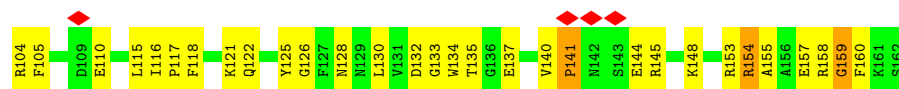


- Molecule 2: Urease subunit beta

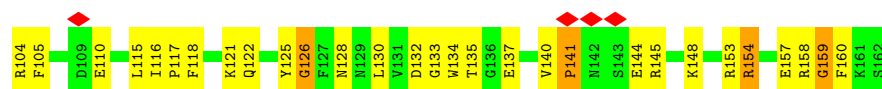
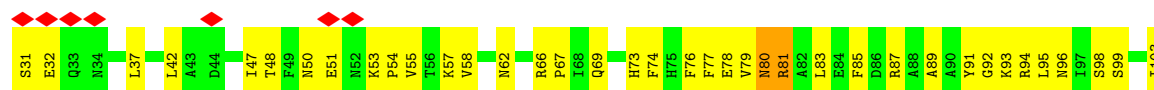




• Molecule 2: Urease subunit beta



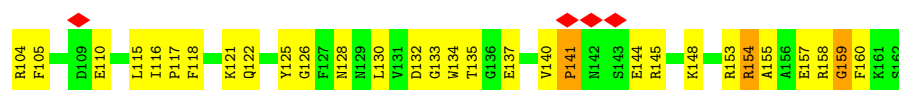
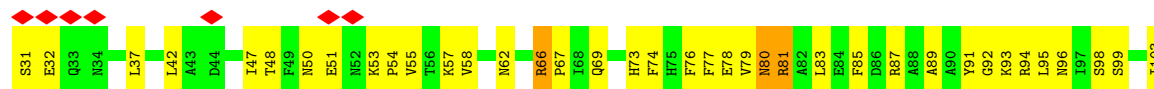
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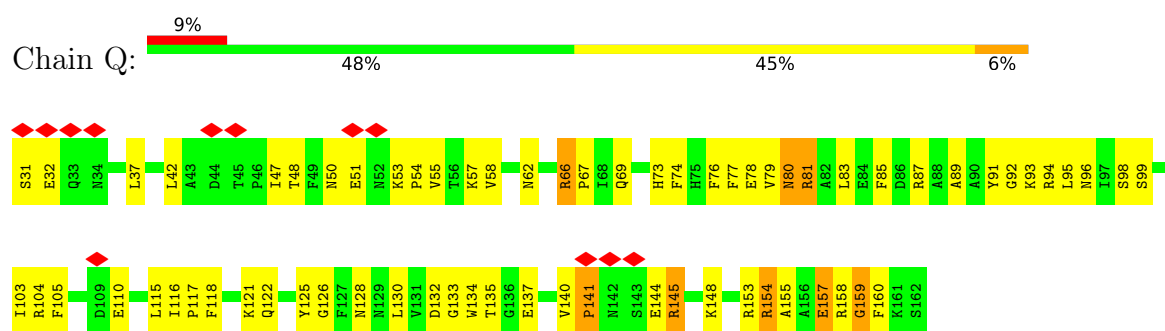
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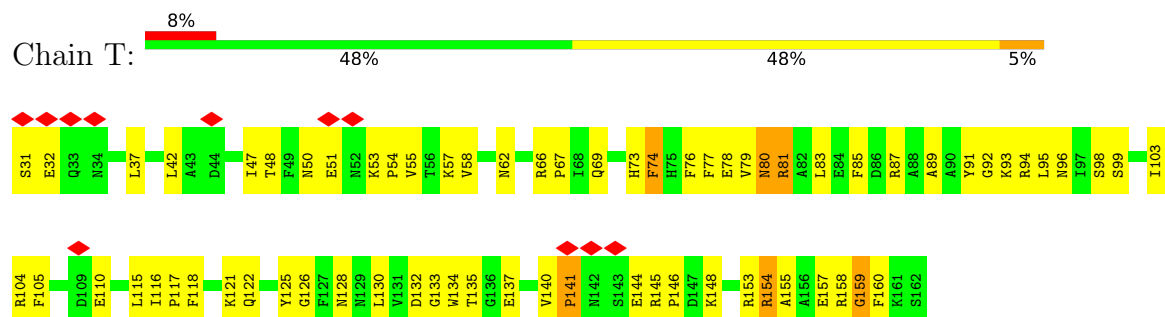
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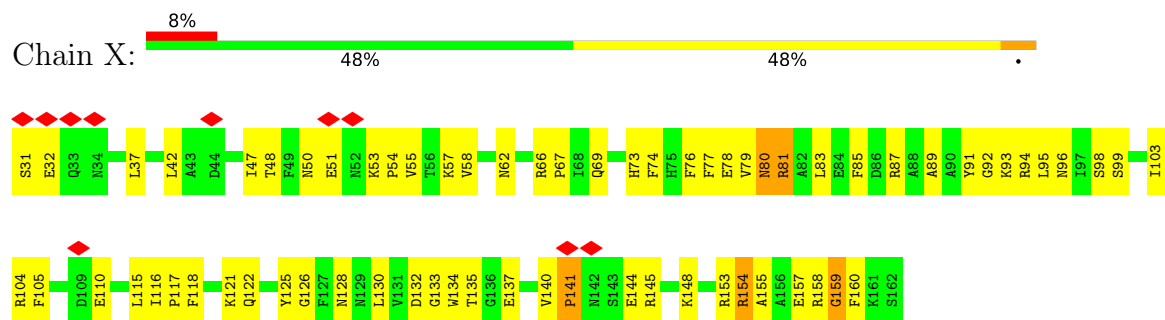
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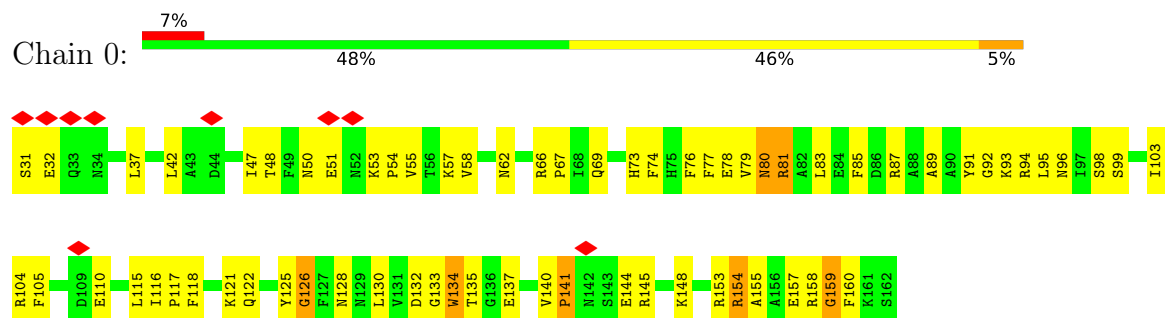
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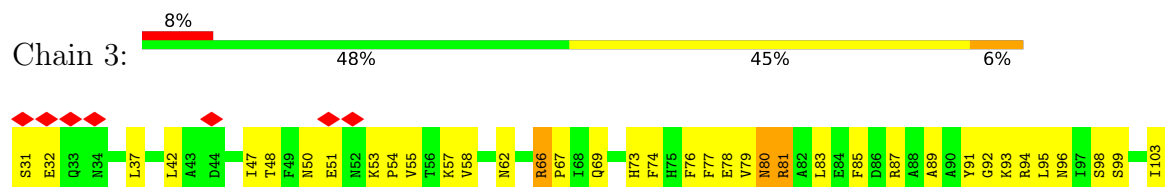
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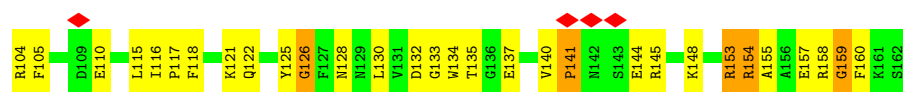


• Molecule 2: Urease subunit beta

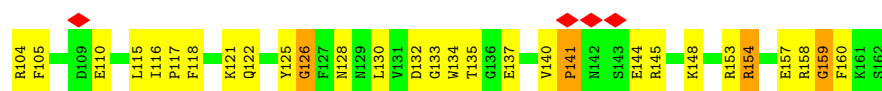
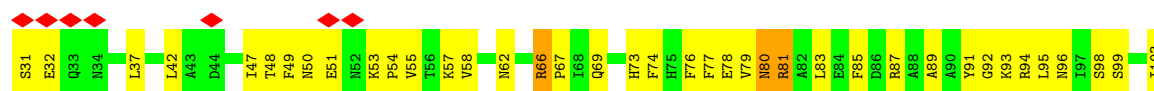


• Molecule 2: Urease subunit beta

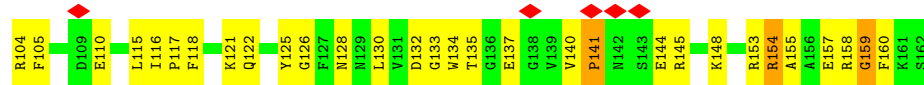
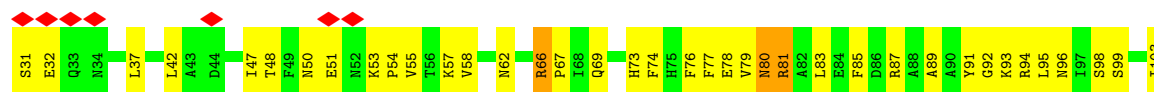




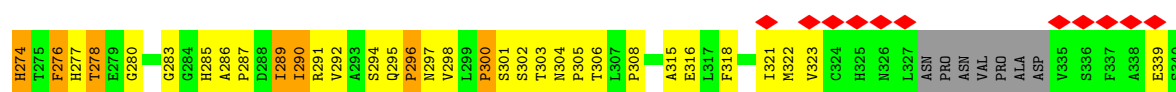
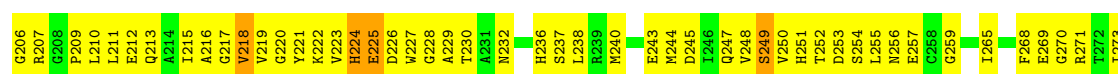
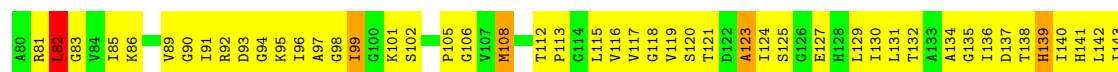
• Molecule 2: Urease subunit beta



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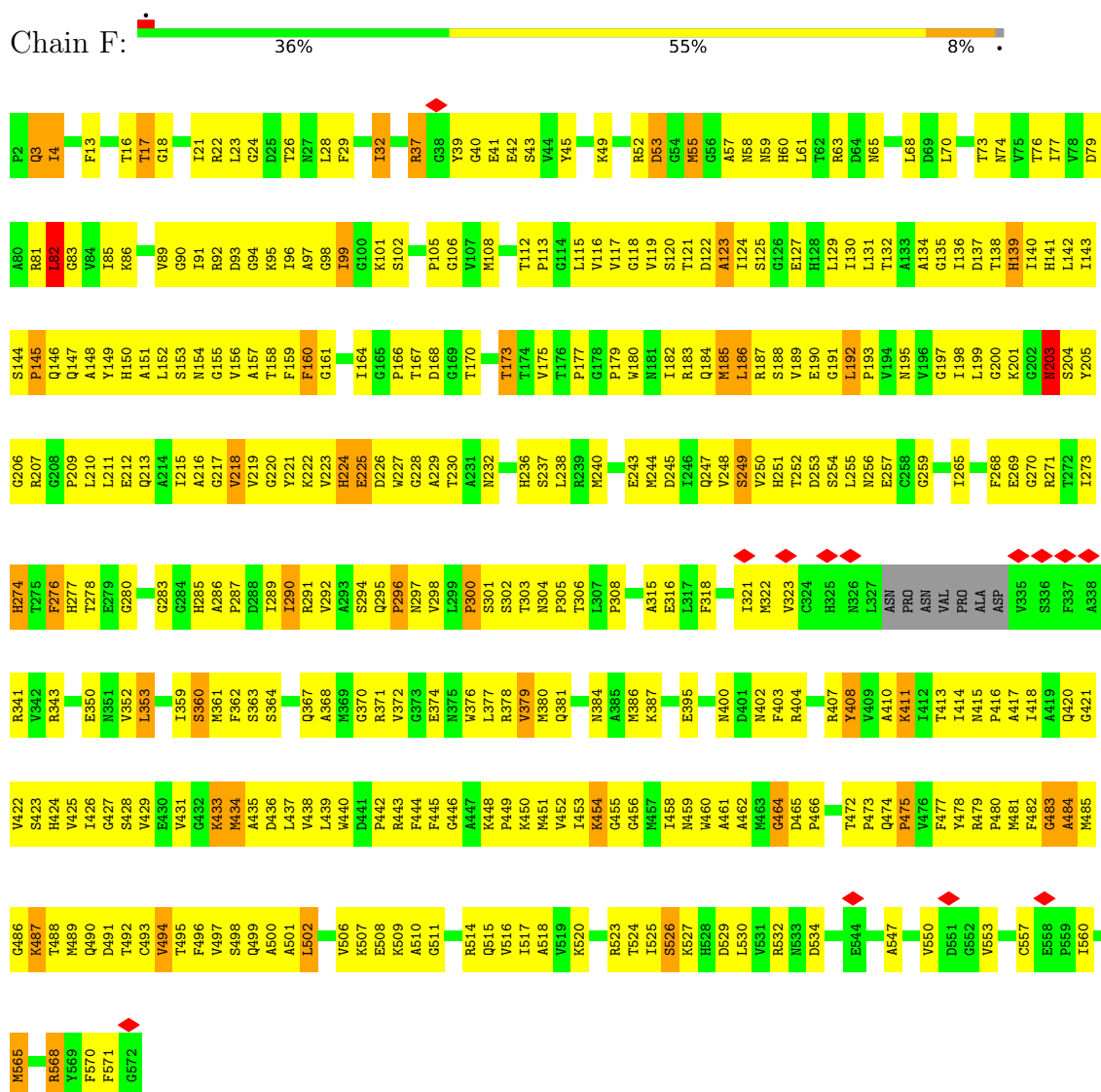


• Molecule 3: Urease subunit alpha



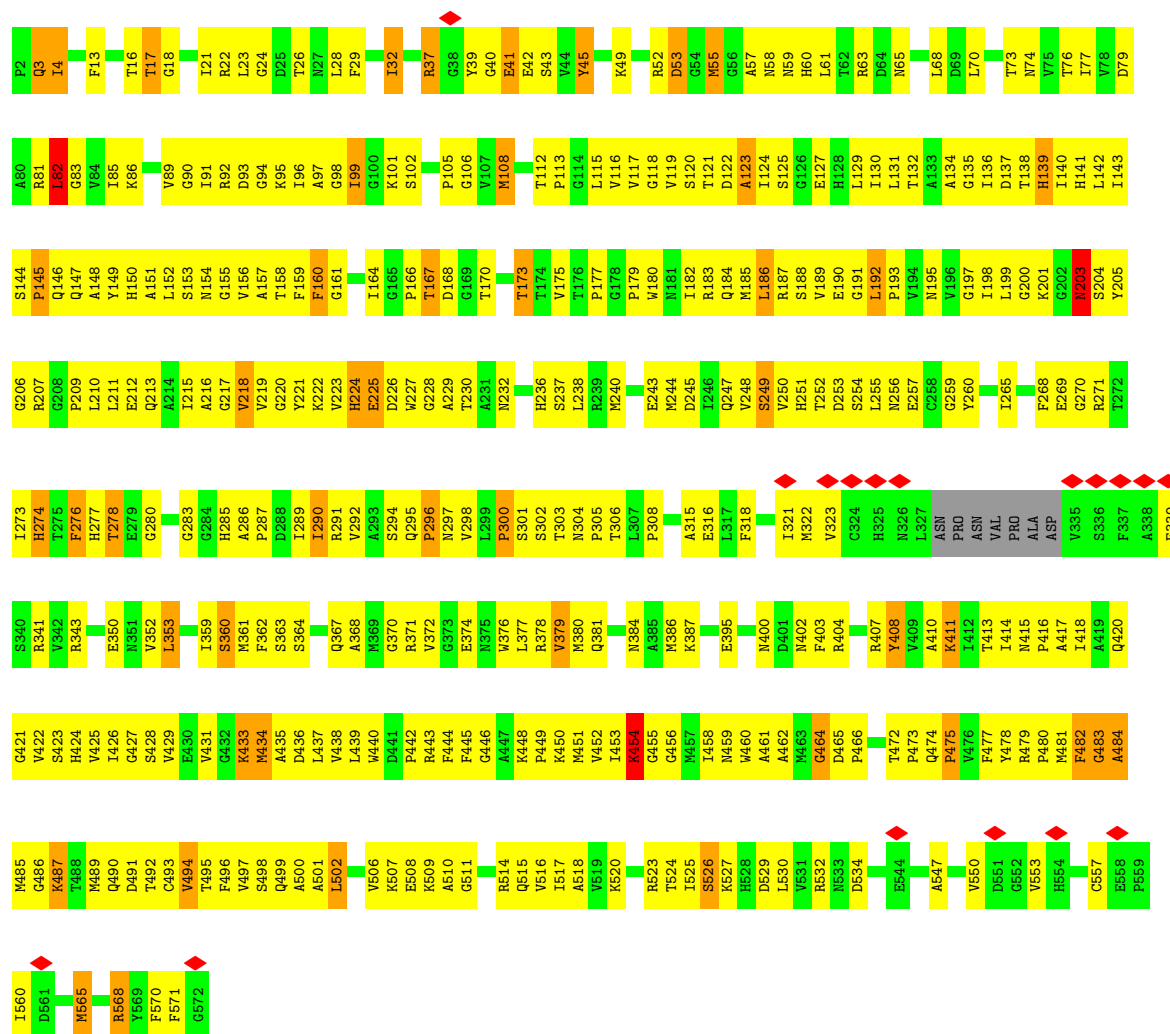


• Molecule 3: Urease subunit alpha

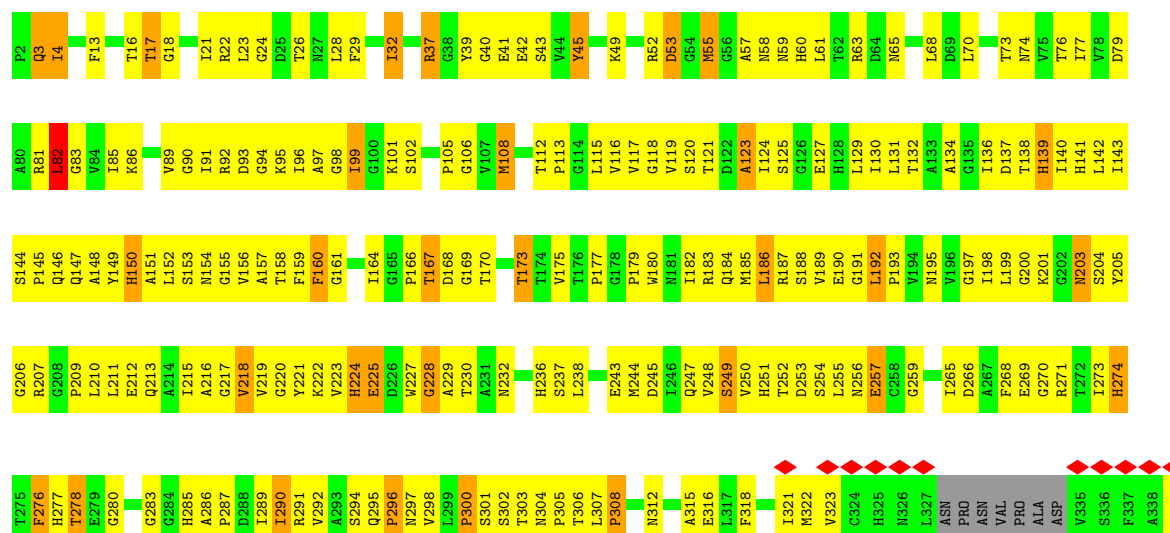


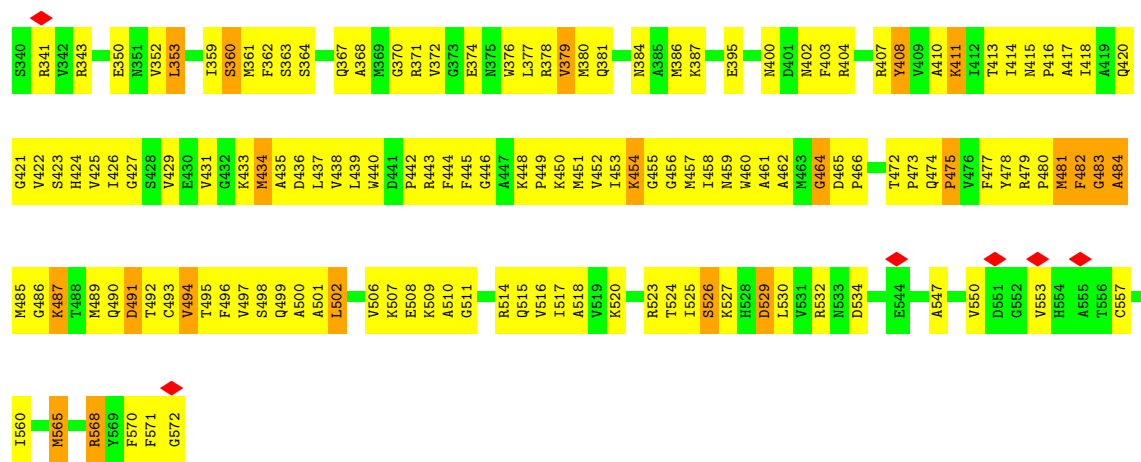
• Molecule 3: Urease subunit alpha



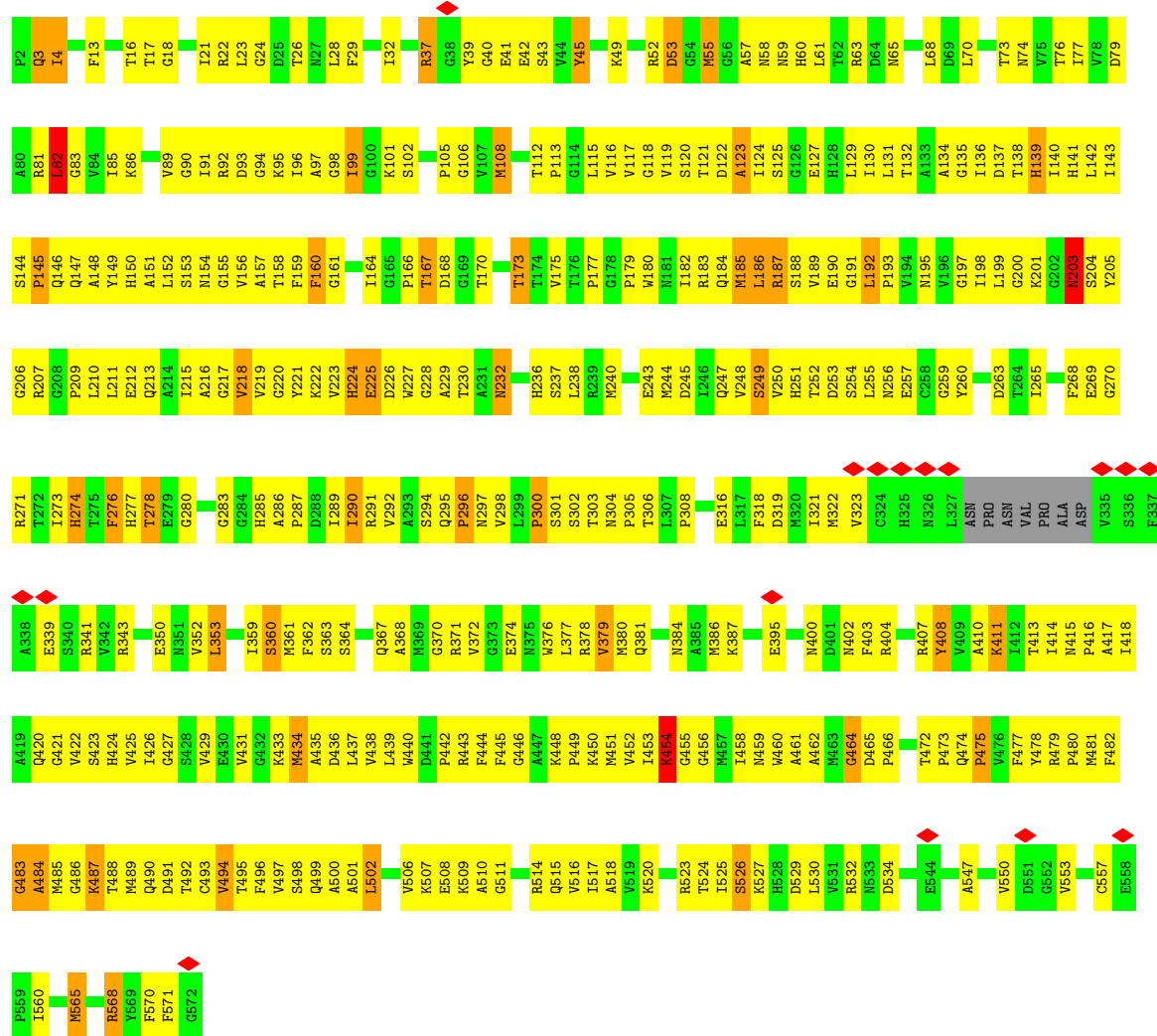


• Molecule 3: Urease subunit alpha



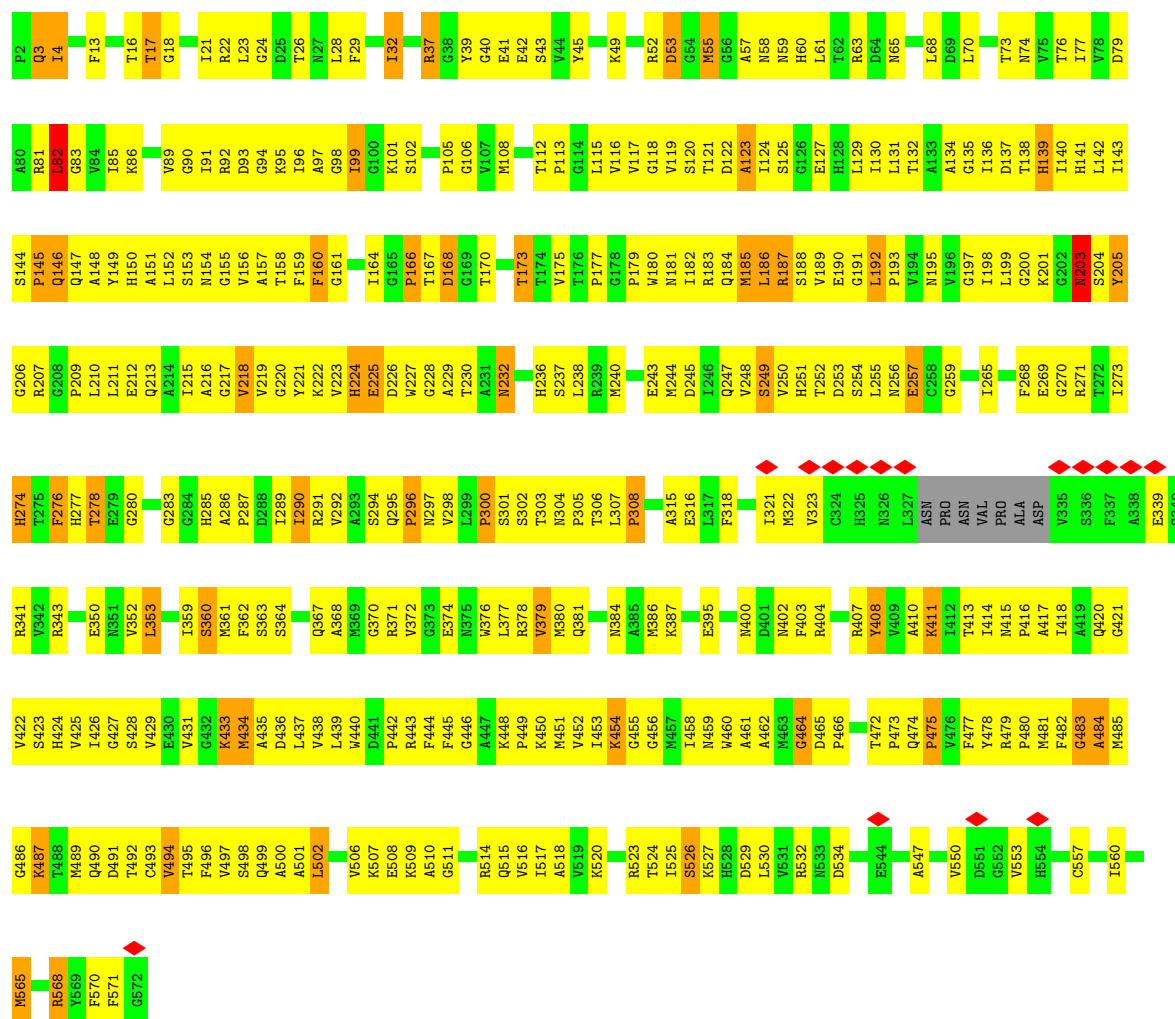


• Molecule 3: Urease subunit alpha



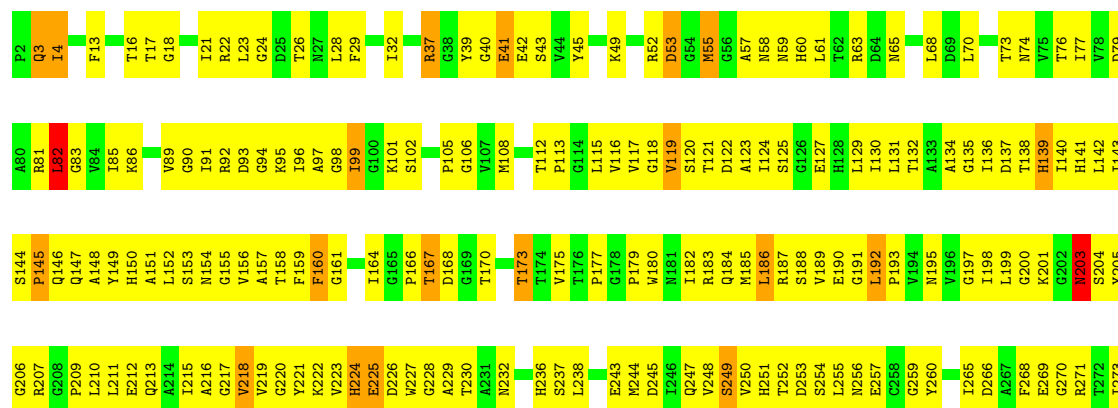
• Molecule 3: Urease subunit alpha

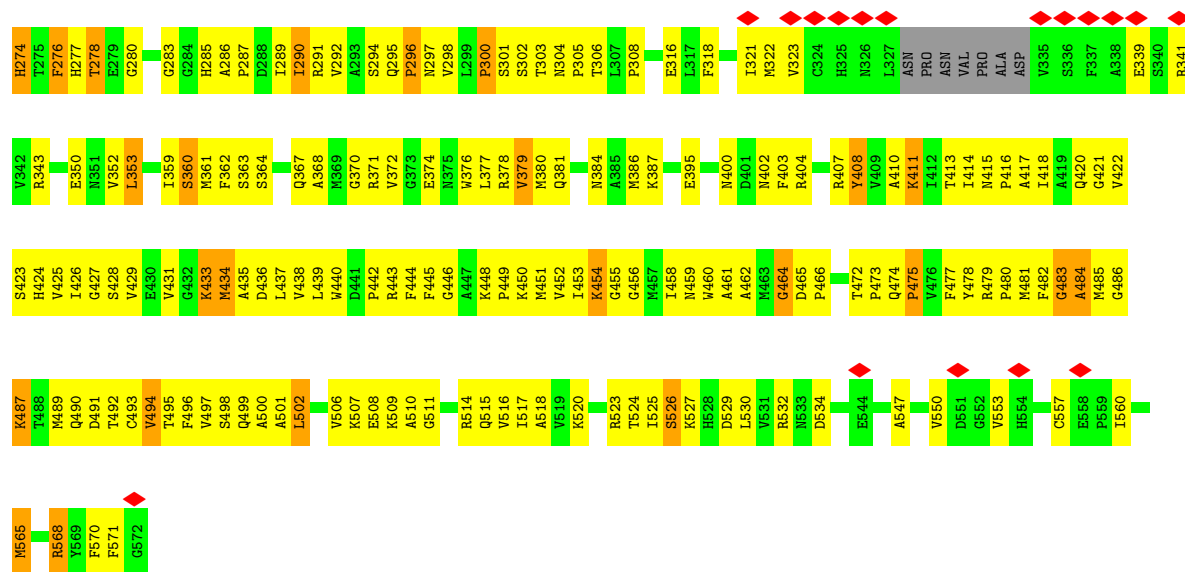
Chain R: 



• Molecule 3: Urease subunit alpha

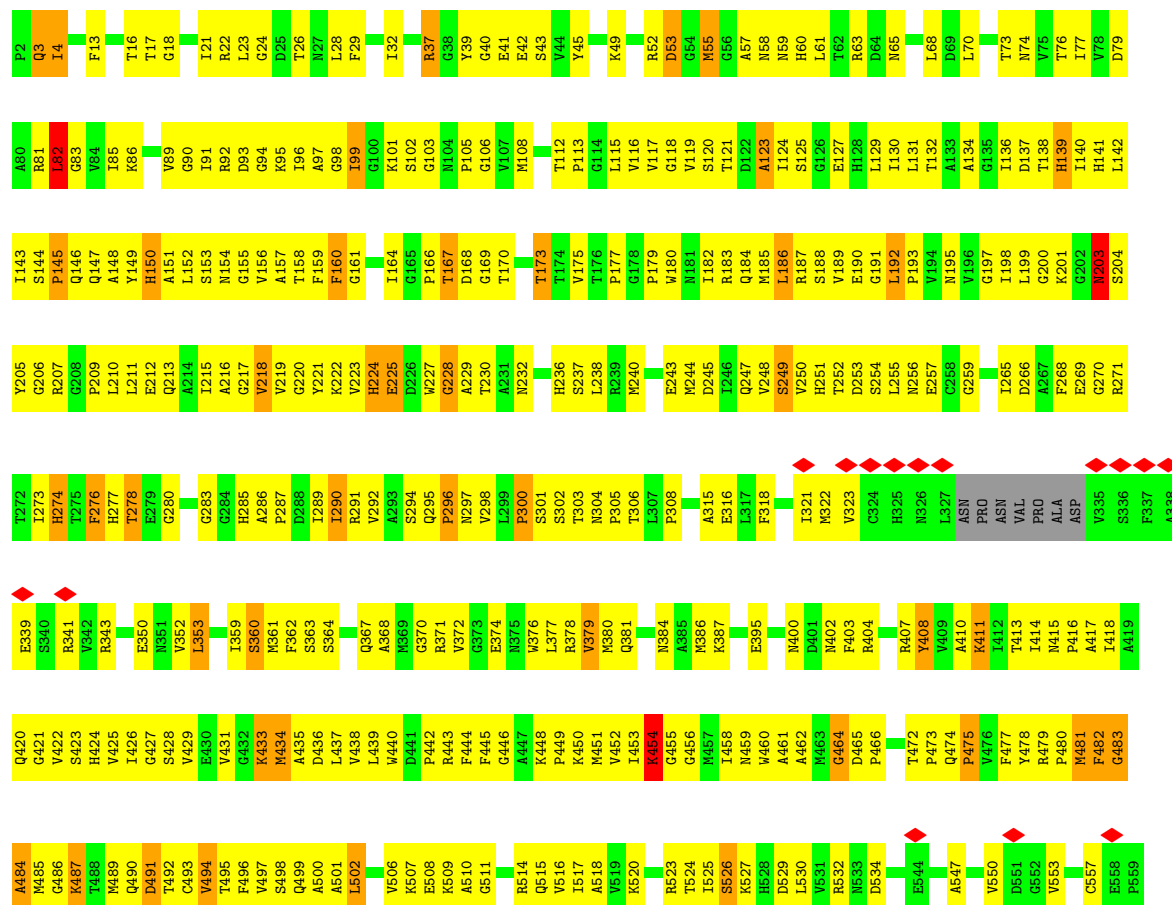
Chain V: 

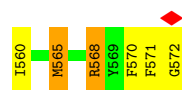




• Molecule 3: Urease subunit alpha

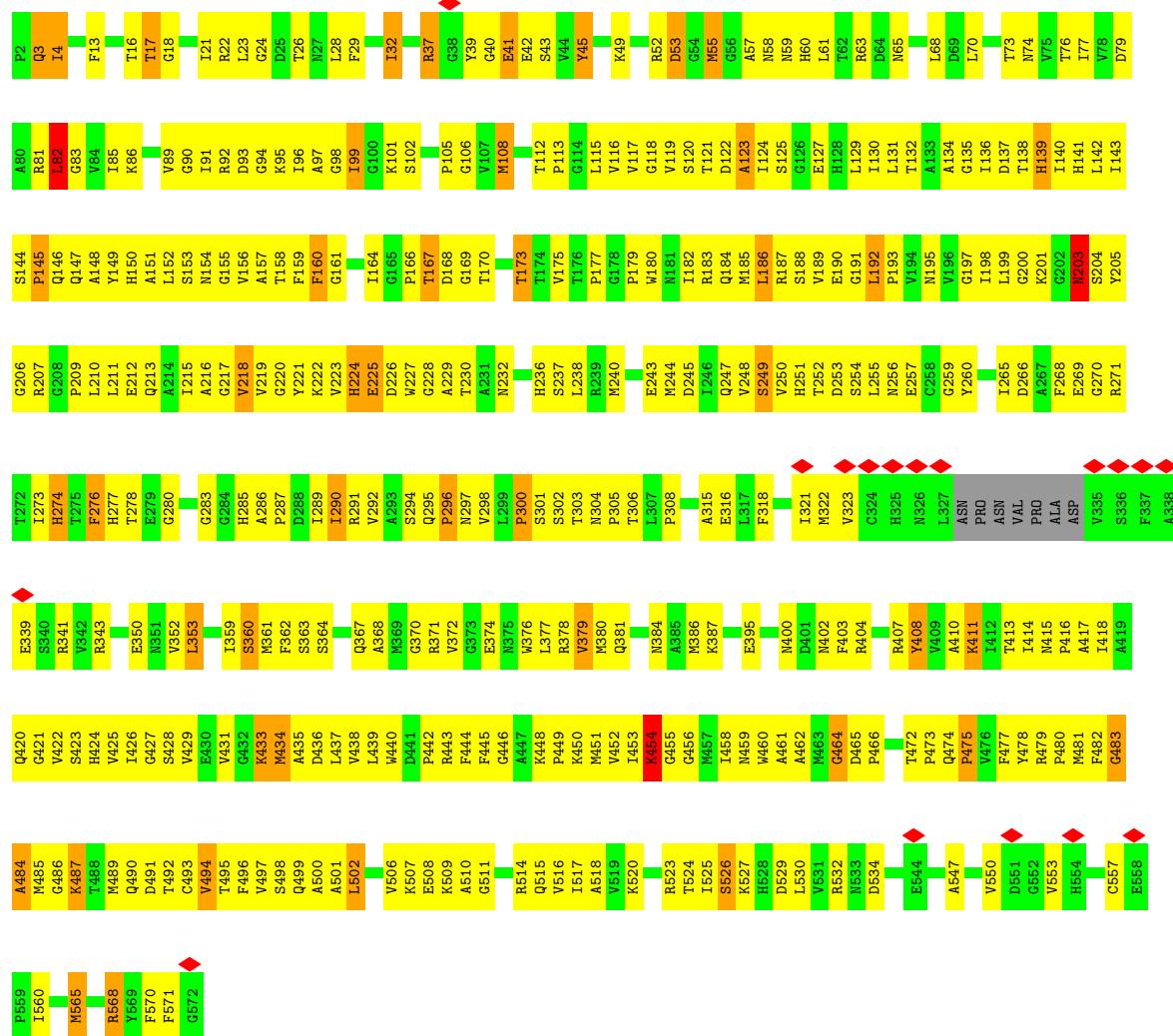
Chain Y: 36% 55% 8% ..





• Molecule 3: Urease subunit alpha

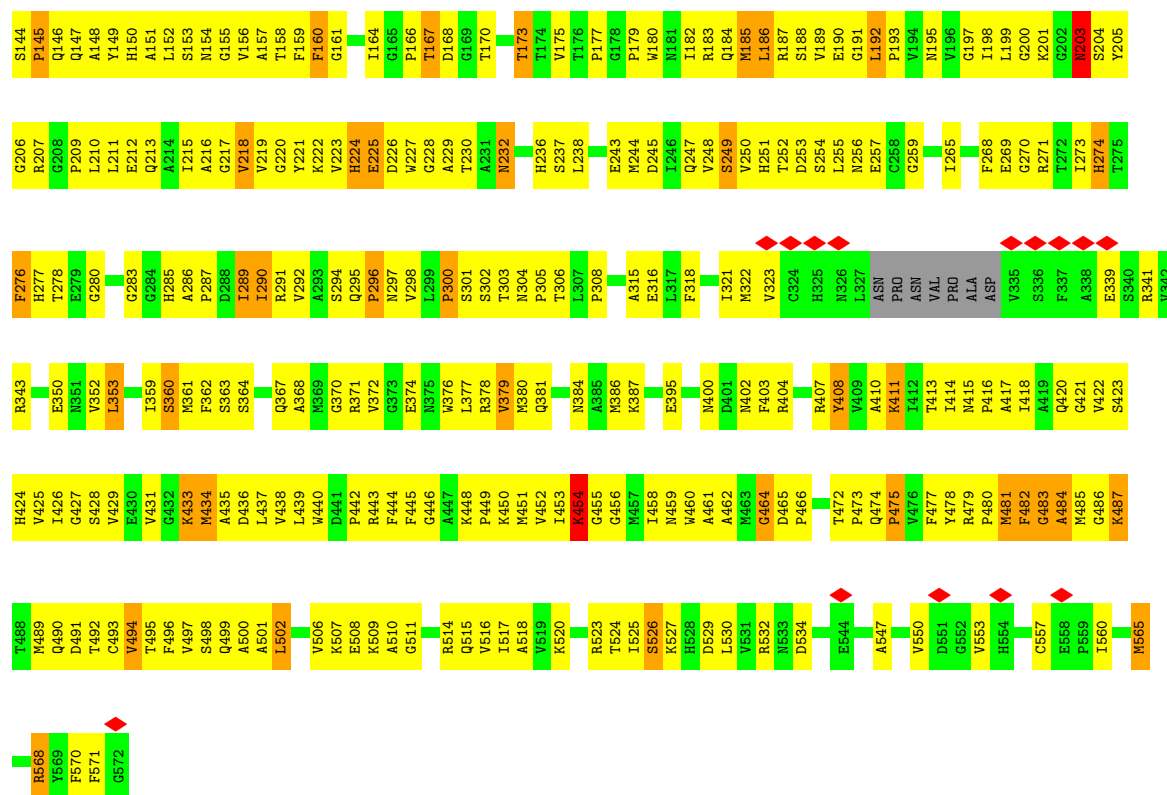
Chain 1: 35% 55% 8% ..



• Molecule 3: Urease subunit alpha

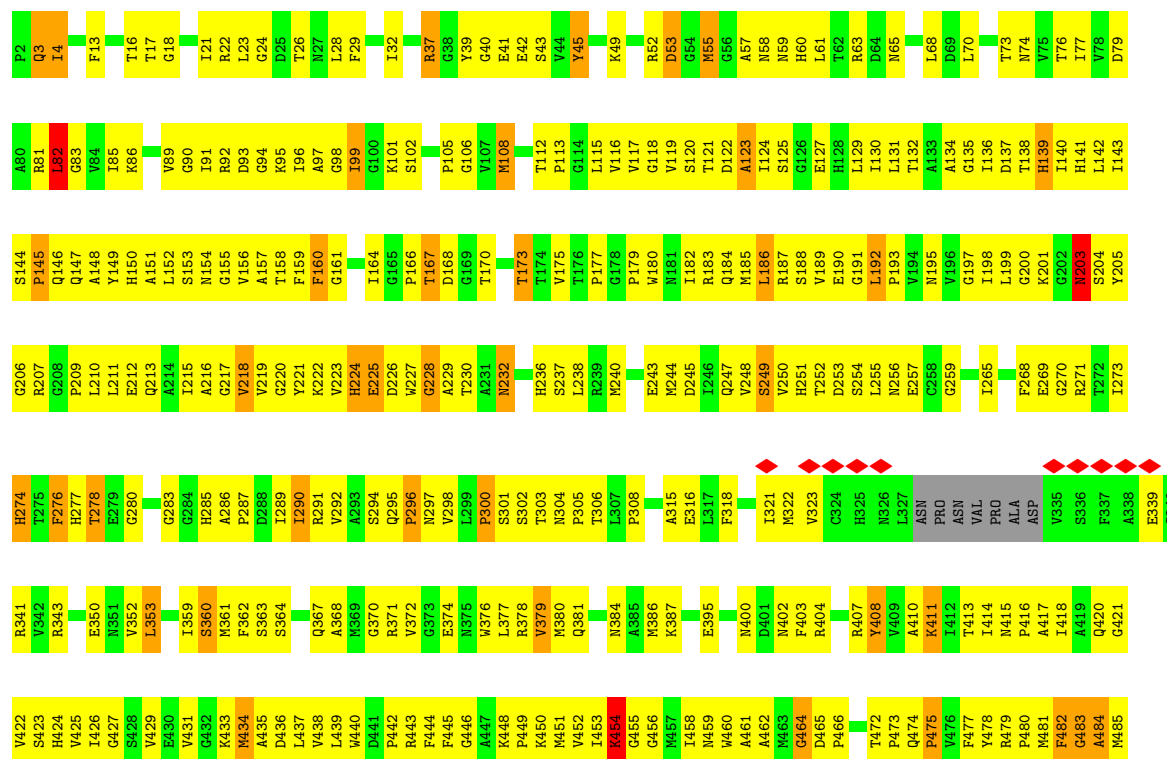
Chain 4: 36% 53% 9% ..





• Molecule 3: Urease subunit alpha

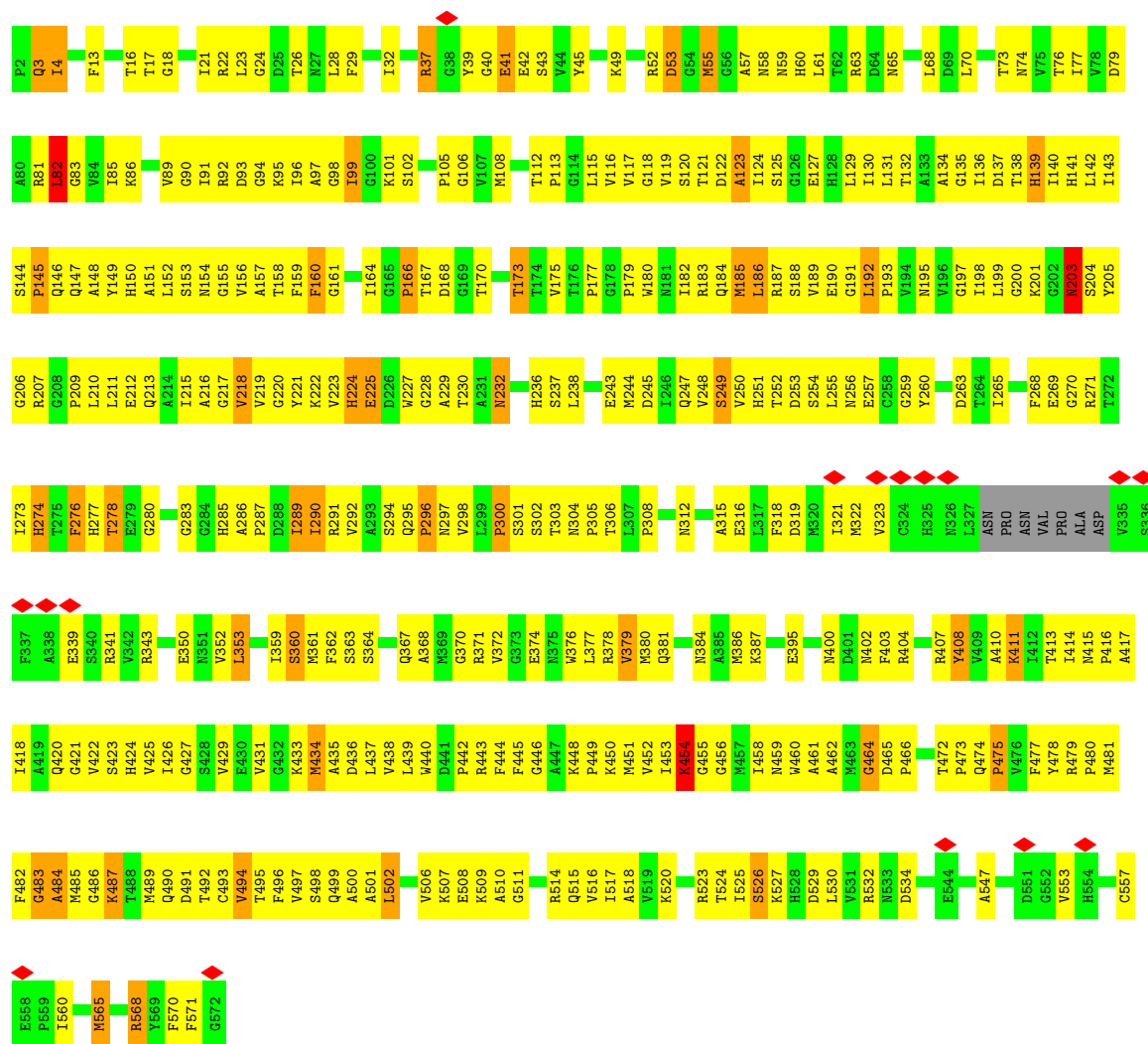
Chain 7: 36% 54% 8% ..





• Molecule 3: Urease subunit alpha

Chain U: 36% 55% 8% ..



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, T	Depositor
Number of particles used	97627	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	42	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.248	Depositor
Minimum map value	-0.146	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.035	Depositor
Map size ($\text{\AA}$)	327.168, 327.168, 327.168	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.639, 0.639, 0.639	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: NI, KCX

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	2	2.65	50/844 (5.9%)	2.08	24/1135 (2.1%)
1	5	2.65	50/844 (5.9%)	2.08	24/1135 (2.1%)
1	8	2.65	50/844 (5.9%)	2.07	23/1135 (2.0%)
1	A	2.65	50/844 (5.9%)	2.07	24/1135 (2.1%)
1	D	2.65	48/844 (5.7%)	2.07	23/1135 (2.0%)
1	G	2.65	50/844 (5.9%)	2.07	24/1135 (2.1%)
1	J	2.65	50/844 (5.9%)	2.08	24/1135 (2.1%)
1	M	2.65	49/844 (5.8%)	2.07	24/1135 (2.1%)
1	P	2.65	49/844 (5.8%)	2.07	24/1135 (2.1%)
1	S	2.65	47/844 (5.6%)	2.07	24/1135 (2.1%)
1	W	2.65	50/844 (5.9%)	2.07	24/1135 (2.1%)
1	Z	2.65	50/844 (5.9%)	2.07	23/1135 (2.0%)
2	0	2.84	76/1076 (7.1%)	2.21	47/1455 (3.2%)
2	3	2.83	77/1076 (7.2%)	2.21	47/1455 (3.2%)
2	6	2.83	77/1076 (7.2%)	2.21	47/1455 (3.2%)
2	9	2.83	76/1076 (7.1%)	2.21	47/1455 (3.2%)
2	B	2.83	76/1076 (7.1%)	2.21	47/1455 (3.2%)
2	E	2.83	76/1076 (7.1%)	2.21	47/1455 (3.2%)
2	H	2.84	76/1076 (7.1%)	2.21	47/1455 (3.2%)
2	K	2.83	78/1076 (7.2%)	2.21	47/1455 (3.2%)
2	N	2.83	77/1076 (7.2%)	2.21	47/1455 (3.2%)
2	Q	2.84	77/1076 (7.2%)	2.21	47/1455 (3.2%)
2	T	2.84	77/1076 (7.2%)	2.21	47/1455 (3.2%)
2	X	2.84	77/1076 (7.2%)	2.21	47/1455 (3.2%)
3	1	3.14	445/4377 (10.2%)	2.42	319/5934 (5.4%)
3	4	3.14	447/4377 (10.2%)	2.42	318/5934 (5.4%)
3	7	3.14	447/4377 (10.2%)	2.43	321/5934 (5.4%)
3	C	3.14	448/4377 (10.2%)	2.44	324/5934 (5.5%)
3	F	3.14	446/4377 (10.2%)	2.42	320/5934 (5.4%)
3	I	3.14	445/4377 (10.2%)	2.42	319/5934 (5.4%)
3	L	3.14	445/4377 (10.2%)	2.42	316/5934 (5.3%)
3	O	3.14	448/4377 (10.2%)	2.43	321/5934 (5.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	R	3.14	447/4377 (10.2%)	2.43	322/5934 (5.4%)
3	U	3.14	448/4377 (10.2%)	2.42	316/5934 (5.3%)
3	V	3.14	446/4377 (10.2%)	2.42	317/5934 (5.3%)
3	Y	3.14	448/4377 (10.2%)	2.43	316/5934 (5.3%)
All	All	3.03	6873/75564 (9.1%)	2.35	4678/102288 (4.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	2	0	2
1	5	0	2
1	8	0	2
1	A	0	2
1	D	0	2
1	G	0	2
1	J	0	2
1	M	0	2
1	P	0	2
1	S	0	2
1	W	0	2
1	Z	0	2
3	1	0	1
3	4	0	1
3	7	0	1
3	C	0	1
3	F	0	1
3	I	0	1
3	L	0	1
3	O	0	1
3	R	0	1
3	U	0	1
3	V	0	1
3	Y	0	1
All	All	0	36

All (6873) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	141	PRO	N-CA	19.13	1.70	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	141	PRO	N-CA	19.12	1.70	1.47
2	3	141	PRO	N-CA	19.08	1.70	1.47
2	B	141	PRO	N-CA	19.07	1.70	1.47
2	T	141	PRO	N-CA	19.07	1.70	1.47
2	K	141	PRO	N-CA	19.07	1.70	1.47
2	X	141	PRO	N-CA	19.07	1.70	1.47
2	6	141	PRO	N-CA	19.06	1.70	1.47
2	9	141	PRO	N-CA	19.05	1.70	1.47
2	E	141	PRO	N-CA	19.03	1.70	1.47
2	H	141	PRO	N-CA	19.02	1.70	1.47
2	N	141	PRO	N-CA	19.01	1.70	1.47
3	F	520	LYS	C-O	-16.97	1.02	1.23
3	R	520	LYS	C-O	-16.96	1.02	1.23
3	Y	520	LYS	C-O	-16.95	1.02	1.23
3	O	520	LYS	C-O	-16.93	1.02	1.23
3	C	520	LYS	C-O	-16.91	1.02	1.23
3	L	520	LYS	C-O	-16.91	1.02	1.23
3	4	520	LYS	C-O	-16.90	1.02	1.23
3	V	520	LYS	C-O	-16.89	1.02	1.23
3	U	520	LYS	C-O	-16.88	1.02	1.23
3	1	520	LYS	C-O	-16.88	1.02	1.23
3	7	520	LYS	C-O	-16.88	1.02	1.23
3	I	520	LYS	C-O	-16.87	1.02	1.23
3	I	150	HIS	C-O	-16.08	1.05	1.24
3	U	150	HIS	C-O	-16.08	1.05	1.24
3	4	150	HIS	C-O	-16.06	1.05	1.24
3	F	150	HIS	C-O	-16.06	1.05	1.24
3	1	150	HIS	C-O	-16.05	1.05	1.24
3	O	150	HIS	C-O	-16.05	1.05	1.24
3	L	150	HIS	C-O	-16.03	1.05	1.24
3	C	150	HIS	C-O	-16.03	1.05	1.24
3	V	150	HIS	C-O	-16.02	1.05	1.24
3	Y	150	HIS	C-O	-16.01	1.05	1.24
3	R	150	HIS	C-O	-16.01	1.05	1.24
3	7	150	HIS	C-O	-15.99	1.05	1.24
3	C	179	PRO	N-CA	15.24	1.68	1.47
3	O	364	SER	C-N	-15.07	1.12	1.33
3	7	364	SER	C-N	-15.07	1.12	1.33
3	U	364	SER	C-N	-15.04	1.12	1.33
3	V	364	SER	C-N	-15.03	1.12	1.33
3	I	364	SER	C-N	-15.02	1.12	1.33
3	4	364	SER	C-N	-15.02	1.12	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	364	SER	C-N	-15.02	1.12	1.33
3	C	364	SER	C-N	-15.01	1.12	1.33
3	Y	364	SER	C-N	-15.01	1.12	1.33
3	1	364	SER	C-N	-15.00	1.12	1.33
3	F	364	SER	C-N	-15.00	1.12	1.33
3	R	364	SER	C-N	-14.98	1.12	1.33
3	U	364	SER	C-O	-14.04	1.03	1.23
3	L	364	SER	C-O	-14.04	1.03	1.23
3	F	364	SER	C-O	-14.03	1.03	1.23
3	I	364	SER	C-O	-14.02	1.03	1.23
3	C	364	SER	C-O	-14.01	1.03	1.23
3	4	364	SER	C-O	-13.99	1.03	1.23
3	V	364	SER	C-O	-13.99	1.03	1.23
3	R	364	SER	C-O	-13.98	1.03	1.23
3	1	364	SER	C-O	-13.97	1.03	1.23
3	Y	364	SER	C-O	-13.97	1.03	1.23
3	O	364	SER	C-O	-13.95	1.03	1.23
3	7	364	SER	C-O	-13.94	1.04	1.23
2	Q	153[A]	ARG	C-N	-13.93	1.15	1.33
2	Q	153[B]	ARG	C-N	-13.93	1.15	1.33
2	H	153[A]	ARG	C-N	-13.91	1.15	1.33
2	H	153[B]	ARG	C-N	-13.91	1.15	1.33
2	6	153[A]	ARG	C-N	-13.91	1.15	1.33
2	6	153[B]	ARG	C-N	-13.91	1.15	1.33
2	3	153[A]	ARG	C-N	-13.89	1.15	1.33
2	3	153[B]	ARG	C-N	-13.89	1.15	1.33
2	B	153[A]	ARG	C-N	-13.89	1.15	1.33
2	B	153[B]	ARG	C-N	-13.89	1.15	1.33
2	T	153[A]	ARG	C-N	-13.89	1.15	1.33
2	T	153[B]	ARG	C-N	-13.89	1.15	1.33
2	X	153[A]	ARG	C-N	-13.88	1.15	1.33
2	X	153[B]	ARG	C-N	-13.88	1.15	1.33
2	E	153[A]	ARG	C-N	-13.88	1.15	1.33
2	E	153[B]	ARG	C-N	-13.88	1.15	1.33
2	0	153[A]	ARG	C-N	-13.87	1.15	1.33
2	0	153[B]	ARG	C-N	-13.87	1.15	1.33
2	K	153[A]	ARG	C-N	-13.87	1.15	1.33
2	K	153[B]	ARG	C-N	-13.87	1.15	1.33
2	9	153[A]	ARG	C-N	-13.85	1.15	1.33
2	9	153[B]	ARG	C-N	-13.85	1.15	1.33
2	N	153[A]	ARG	C-N	-13.83	1.15	1.33
2	N	153[B]	ARG	C-N	-13.83	1.15	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	195	ASN	CG-ND2	-13.42	1.05	1.33
3	R	195	ASN	CG-ND2	-13.41	1.05	1.33
3	Y	195	ASN	CG-ND2	-13.41	1.05	1.33
3	1	195	ASN	CG-ND2	-13.40	1.05	1.33
3	4	195	ASN	CG-ND2	-13.40	1.05	1.33
3	V	195	ASN	CG-ND2	-13.39	1.05	1.33
3	C	195	ASN	CG-ND2	-13.39	1.05	1.33
3	I	195	ASN	CG-ND2	-13.39	1.05	1.33
3	U	195	ASN	CG-ND2	-13.39	1.05	1.33
3	7	195	ASN	CG-ND2	-13.38	1.05	1.33
3	F	195	ASN	CG-ND2	-13.36	1.05	1.33
3	O	195	ASN	CG-ND2	-13.36	1.05	1.33
3	7	384	ASN	CG-ND2	-13.21	1.05	1.33
3	L	77	ILE	CG1-CD1	-13.19	1.00	1.51
3	4	384	ASN	CG-ND2	-13.19	1.05	1.33
3	1	77	ILE	CG1-CD1	-13.19	1.00	1.51
3	I	77	ILE	CG1-CD1	-13.19	1.00	1.51
3	R	77	ILE	CG1-CD1	-13.19	1.00	1.51
3	1	384	ASN	CG-ND2	-13.19	1.05	1.33
3	O	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	4	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	I	384	ASN	CG-ND2	-13.18	1.05	1.33
3	R	384	ASN	CG-ND2	-13.18	1.05	1.33
3	Y	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	7	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	U	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	C	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	V	77	ILE	CG1-CD1	-13.18	1.00	1.51
3	Y	384	ASN	CG-ND2	-13.18	1.05	1.33
3	O	384	ASN	CG-ND2	-13.17	1.05	1.33
3	F	77	ILE	CG1-CD1	-13.17	1.00	1.51
3	V	384	ASN	CG-ND2	-13.16	1.05	1.33
3	C	384	ASN	CG-ND2	-13.16	1.05	1.33
3	F	384	ASN	CG-ND2	-13.16	1.05	1.33
3	U	384	ASN	CG-ND2	-13.16	1.05	1.33
3	L	384	ASN	CG-ND2	-13.13	1.05	1.33
3	4	147	GLN	CD-NE2	-12.92	1.06	1.33
3	U	147	GLN	CD-NE2	-12.91	1.06	1.33
3	I	147	GLN	CD-NE2	-12.91	1.06	1.33
3	L	147	GLN	CD-NE2	-12.91	1.06	1.33
3	Y	147	GLN	CD-NE2	-12.91	1.06	1.33
3	C	147	GLN	CD-NE2	-12.90	1.06	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	147	GLN	CD-NE2	-12.90	1.06	1.33
3	O	147	GLN	CD-NE2	-12.90	1.06	1.33
3	1	147	GLN	CD-NE2	-12.90	1.06	1.33
3	7	147	GLN	CD-NE2	-12.89	1.06	1.33
3	F	147	GLN	CD-NE2	-12.89	1.06	1.33
3	V	147	GLN	CD-NE2	-12.88	1.06	1.33
3	Y	466	PRO	C-O	-12.80	1.07	1.24
3	4	466	PRO	C-O	-12.76	1.07	1.24
3	I	466	PRO	C-O	-12.74	1.07	1.24
3	L	466	PRO	C-O	-12.74	1.07	1.24
3	7	466	PRO	C-O	-12.73	1.07	1.24
3	C	466	PRO	C-O	-12.73	1.07	1.24
3	O	466	PRO	C-O	-12.72	1.07	1.24
3	1	466	PRO	C-O	-12.72	1.07	1.24
3	V	466	PRO	C-O	-12.71	1.07	1.24
3	F	485	MET	CB-CG	-12.70	1.14	1.52
3	U	485	MET	CB-CG	-12.69	1.14	1.52
3	F	466	PRO	C-O	-12.69	1.07	1.24
3	R	466	PRO	C-O	-12.69	1.07	1.24
3	Y	485	MET	CB-CG	-12.69	1.14	1.52
3	4	485	MET	CB-CG	-12.69	1.14	1.52
3	U	466	PRO	C-O	-12.69	1.07	1.24
3	C	485	MET	CB-CG	-12.68	1.14	1.52
3	V	485	MET	CB-CG	-12.68	1.14	1.52
3	L	485	MET	CB-CG	-12.67	1.14	1.52
3	7	485	MET	CB-CG	-12.67	1.14	1.52
3	O	485	MET	CB-CG	-12.67	1.14	1.52
3	I	485	MET	CB-CG	-12.67	1.14	1.52
3	1	485	MET	CB-CG	-12.66	1.14	1.52
3	R	485	MET	CB-CG	-12.66	1.14	1.52
3	O	86	LYS	CE-NZ	-12.63	1.11	1.49
3	U	86	LYS	CE-NZ	-12.62	1.11	1.49
3	C	86	LYS	CE-NZ	-12.61	1.11	1.49
3	L	86	LYS	CE-NZ	-12.61	1.11	1.49
3	V	86	LYS	CE-NZ	-12.60	1.11	1.49
3	4	86	LYS	CE-NZ	-12.60	1.11	1.49
3	R	86	LYS	CE-NZ	-12.60	1.11	1.49
3	1	86	LYS	CE-NZ	-12.60	1.11	1.49
3	7	86	LYS	CE-NZ	-12.60	1.11	1.49
3	I	86	LYS	CE-NZ	-12.60	1.11	1.49
3	Y	86	LYS	CE-NZ	-12.59	1.11	1.49
3	F	86	LYS	CE-NZ	-12.58	1.11	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	304	ASN	C-N	12.56	1.49	1.34
3	V	304	ASN	C-N	12.53	1.49	1.34
3	F	304	ASN	C-N	12.52	1.49	1.34
3	7	304	ASN	C-N	12.52	1.49	1.34
3	O	523	ARG	CZ-NH1	-12.51	1.15	1.32
3	R	523	ARG	CZ-NH1	-12.51	1.15	1.32
3	Y	523	ARG	CZ-NH1	-12.51	1.15	1.32
3	C	523	ARG	CZ-NH1	-12.49	1.15	1.32
3	V	523	ARG	CZ-NH1	-12.49	1.15	1.32
3	C	304	ASN	C-N	12.49	1.49	1.34
3	I	523	ARG	CZ-NH1	-12.49	1.15	1.32
3	1	304	ASN	C-N	12.49	1.49	1.34
3	U	304	ASN	C-N	12.49	1.49	1.34
3	L	523	ARG	CZ-NH1	-12.49	1.15	1.32
3	O	304	ASN	C-N	12.48	1.49	1.34
3	4	304	ASN	C-N	12.48	1.49	1.34
3	R	304	ASN	C-N	12.47	1.49	1.34
3	7	523	ARG	CZ-NH1	-12.47	1.15	1.32
3	Y	304	ASN	C-N	12.47	1.49	1.34
3	L	304	ASN	C-N	12.47	1.49	1.34
3	U	523	ARG	CZ-NH1	-12.46	1.15	1.32
3	F	523	ARG	CZ-NH1	-12.46	1.15	1.32
3	4	523	ARG	CZ-NH1	-12.45	1.15	1.32
3	1	523	ARG	CZ-NH1	-12.42	1.15	1.32
3	R	212	GLU	CB-CG	-12.28	1.15	1.52
3	O	212	GLU	CB-CG	-12.27	1.15	1.52
3	Y	212	GLU	CB-CG	-12.27	1.15	1.52
3	L	212	GLU	CB-CG	-12.26	1.15	1.52
3	4	212	GLU	CB-CG	-12.26	1.15	1.52
3	U	212	GLU	CB-CG	-12.26	1.15	1.52
3	1	212	GLU	CB-CG	-12.25	1.15	1.52
3	V	212	GLU	CB-CG	-12.25	1.15	1.52
3	F	212	GLU	CB-CG	-12.25	1.15	1.52
3	7	212	GLU	CB-CG	-12.25	1.15	1.52
3	I	212	GLU	CB-CG	-12.25	1.15	1.52
3	1	23	LEU	C-O	-12.24	1.06	1.23
3	7	23	LEU	C-O	-12.23	1.06	1.23
3	F	23	LEU	C-O	-12.22	1.06	1.23
3	L	23	LEU	C-O	-12.22	1.06	1.23
3	C	23	LEU	C-O	-12.21	1.06	1.23
3	O	23	LEU	C-O	-12.21	1.06	1.23
3	4	23	LEU	C-O	-12.21	1.06	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	23	LEU	C-O	-12.21	1.06	1.23
3	Y	23	LEU	C-O	-12.20	1.06	1.23
3	V	23	LEU	C-O	-12.19	1.06	1.23
3	I	23	LEU	C-O	-12.17	1.06	1.23
3	O	175	VAL	C-O	-12.16	1.12	1.24
3	Y	402	ASN	CG-ND2	-12.16	1.07	1.33
3	7	175	VAL	C-O	-12.16	1.12	1.24
3	I	402	ASN	CG-ND2	-12.16	1.07	1.33
3	U	175	VAL	C-O	-12.16	1.12	1.24
3	4	175	VAL	C-O	-12.15	1.12	1.24
3	V	402	ASN	CG-ND2	-12.15	1.07	1.33
3	1	402	ASN	CG-ND2	-12.15	1.07	1.33
3	U	23	LEU	C-O	-12.15	1.06	1.23
3	4	402	ASN	CG-ND2	-12.14	1.07	1.33
3	L	175	VAL	C-O	-12.14	1.12	1.24
3	L	402	ASN	CG-ND2	-12.14	1.07	1.33
3	C	402	ASN	CG-ND2	-12.14	1.07	1.33
3	1	175	VAL	C-O	-12.13	1.12	1.24
3	7	402	ASN	CG-ND2	-12.13	1.07	1.33
3	F	402	ASN	CG-ND2	-12.13	1.07	1.33
3	O	514	ARG	CZ-NH1	-12.12	1.15	1.32
3	R	402	ASN	CG-ND2	-12.12	1.07	1.33
3	O	402	ASN	CG-ND2	-12.12	1.07	1.33
3	C	175	VAL	C-O	-12.12	1.12	1.24
3	F	175	VAL	C-O	-12.12	1.12	1.24
3	R	175	VAL	C-O	-12.12	1.12	1.24
3	U	402	ASN	CG-ND2	-12.11	1.07	1.33
3	4	514	ARG	CZ-NH1	-12.10	1.15	1.32
3	Y	175	VAL	C-O	-12.09	1.12	1.24
3	V	175	VAL	C-O	-12.09	1.12	1.24
3	U	514	ARG	CZ-NH1	-12.08	1.15	1.32
3	Y	514	ARG	CZ-NH1	-12.08	1.15	1.32
3	C	514	ARG	CZ-NH1	-12.07	1.15	1.32
3	1	514	ARG	CZ-NH1	-12.07	1.15	1.32
3	F	514	ARG	CZ-NH1	-12.07	1.15	1.32
3	L	514	ARG	CZ-NH1	-12.06	1.15	1.32
3	7	514	ARG	CZ-NH1	-12.06	1.15	1.32
3	I	175	VAL	C-O	-12.05	1.12	1.24
3	V	514	ARG	CZ-NH1	-12.05	1.15	1.32
3	I	514	ARG	CZ-NH1	-12.04	1.15	1.32
3	R	514	ARG	CZ-NH1	-12.04	1.15	1.32
2	Q	145	ARG	C-N	11.94	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	145	ARG	C-N	11.94	1.49	1.33
2	K	145	ARG	C-N	11.93	1.49	1.33
2	0	145	ARG	C-N	11.91	1.49	1.33
2	N	145	ARG	C-N	11.90	1.49	1.33
2	6	145	ARG	C-N	11.89	1.49	1.33
2	H	145	ARG	C-N	11.89	1.49	1.33
2	B	145	ARG	C-N	11.89	1.49	1.33
2	E	145	ARG	C-N	11.88	1.49	1.33
2	9	145	ARG	C-N	11.87	1.49	1.33
2	X	145	ARG	C-N	11.86	1.49	1.33
2	T	94	ARG	CZ-NH1	-11.84	1.16	1.32
2	3	145	ARG	C-N	11.84	1.49	1.33
2	H	94	ARG	CZ-NH1	-11.84	1.16	1.32
2	X	94	ARG	CZ-NH1	-11.83	1.16	1.32
2	3	94	ARG	CZ-NH1	-11.83	1.16	1.32
2	9	94	ARG	CZ-NH1	-11.83	1.16	1.32
2	0	94	ARG	CZ-NH1	-11.83	1.16	1.32
2	K	94	ARG	CZ-NH1	-11.82	1.16	1.32
2	B	94	ARG	CZ-NH1	-11.82	1.16	1.32
2	N	94	ARG	CZ-NH1	-11.82	1.16	1.32
3	U	523	ARG	CG-CD	-11.80	1.17	1.52
3	V	523	ARG	CG-CD	-11.79	1.17	1.52
3	1	523	ARG	CG-CD	-11.79	1.17	1.52
3	I	523	ARG	CG-CD	-11.79	1.17	1.52
2	Q	94	ARG	CZ-NH1	-11.79	1.16	1.32
3	7	523	ARG	CG-CD	-11.78	1.17	1.52
3	C	523	ARG	CG-CD	-11.78	1.17	1.52
2	6	94	ARG	CZ-NH1	-11.78	1.16	1.32
2	E	94	ARG	CZ-NH1	-11.78	1.16	1.32
3	Y	523	ARG	CG-CD	-11.77	1.17	1.52
3	4	523	ARG	CG-CD	-11.77	1.17	1.52
3	L	523	ARG	CG-CD	-11.77	1.17	1.52
3	F	523	ARG	CG-CD	-11.77	1.17	1.52
3	R	523	ARG	CG-CD	-11.76	1.17	1.52
3	O	523	ARG	CG-CD	-11.76	1.17	1.52
3	R	201	LYS	C-N	-11.49	1.18	1.34
3	4	201	LYS	C-N	-11.49	1.18	1.34
3	I	201	LYS	C-N	-11.48	1.18	1.34
3	1	201	LYS	C-N	-11.48	1.18	1.34
3	C	201	LYS	C-N	-11.46	1.19	1.34
3	F	201	LYS	C-N	-11.46	1.19	1.34
3	Y	201	LYS	C-N	-11.46	1.19	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	201	LYS	C-N	-11.45	1.19	1.34
3	U	415	ASN	CG-ND2	-11.45	1.09	1.33
3	O	201	LYS	C-N	-11.45	1.19	1.34
3	V	201	LYS	C-N	-11.45	1.19	1.34
3	L	201	LYS	C-N	-11.44	1.19	1.34
3	V	415	ASN	CG-ND2	-11.43	1.09	1.33
3	7	415	ASN	CG-ND2	-11.43	1.09	1.33
3	F	415	ASN	CG-ND2	-11.42	1.09	1.33
3	R	415	ASN	CG-ND2	-11.42	1.09	1.33
3	C	415	ASN	CG-ND2	-11.42	1.09	1.33
3	7	201	LYS	C-N	-11.42	1.19	1.34
3	Y	415	ASN	CG-ND2	-11.42	1.09	1.33
3	1	415	ASN	CG-ND2	-11.42	1.09	1.33
3	O	415	ASN	CG-ND2	-11.41	1.09	1.33
3	4	415	ASN	CG-ND2	-11.41	1.09	1.33
3	I	415	ASN	CG-ND2	-11.41	1.09	1.33
3	L	415	ASN	CG-ND2	-11.41	1.09	1.33
3	U	21[A]	ILE	CG1-CD1	-11.38	1.07	1.51
3	U	21[B]	ILE	CG1-CD1	-11.38	1.07	1.51
3	F	21[A]	ILE	CG1-CD1	-11.37	1.07	1.51
3	F	21[B]	ILE	CG1-CD1	-11.37	1.07	1.51
3	4	21[A]	ILE	CG1-CD1	-11.37	1.07	1.51
3	4	21[B]	ILE	CG1-CD1	-11.37	1.07	1.51
3	7	21[A]	ILE	CG1-CD1	-11.37	1.07	1.51
3	7	21[B]	ILE	CG1-CD1	-11.37	1.07	1.51
3	O	21[A]	ILE	CG1-CD1	-11.36	1.07	1.51
3	O	21[B]	ILE	CG1-CD1	-11.36	1.07	1.51
3	C	21[A]	ILE	CG1-CD1	-11.36	1.07	1.51
3	C	21[B]	ILE	CG1-CD1	-11.36	1.07	1.51
3	Y	21[A]	ILE	CG1-CD1	-11.36	1.07	1.51
3	Y	21[B]	ILE	CG1-CD1	-11.36	1.07	1.51
3	L	21[A]	ILE	CG1-CD1	-11.35	1.07	1.51
3	L	21[B]	ILE	CG1-CD1	-11.35	1.07	1.51
3	I	21[A]	ILE	CG1-CD1	-11.35	1.07	1.51
3	I	21[B]	ILE	CG1-CD1	-11.35	1.07	1.51
3	V	21[A]	ILE	CG1-CD1	-11.35	1.07	1.51
3	V	21[B]	ILE	CG1-CD1	-11.35	1.07	1.51
3	1	21[A]	ILE	CG1-CD1	-11.34	1.07	1.51
3	1	21[B]	ILE	CG1-CD1	-11.34	1.07	1.51
3	R	21[A]	ILE	CG1-CD1	-11.34	1.07	1.51
3	R	21[B]	ILE	CG1-CD1	-11.34	1.07	1.51
1	5	59	GLU	C-O	-11.31	1.11	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	59	GLU	C-O	-11.31	1.11	1.24
1	G	59	GLU	C-O	-11.30	1.11	1.24
1	2	59	GLU	C-O	-11.27	1.11	1.24
1	P	59	GLU	C-O	-11.27	1.11	1.24
1	S	59	GLU	C-O	-11.27	1.11	1.24
1	A	59	GLU	C-O	-11.27	1.11	1.24
1	M	59	GLU	C-O	-11.23	1.11	1.24
1	W	59	GLU	C-O	-11.23	1.11	1.24
1	J	59	GLU	C-O	-11.23	1.11	1.24
1	Z	59	GLU	C-O	-11.20	1.11	1.24
3	R	367	GLN	CD-NE2	-11.20	1.09	1.33
1	8	59	GLU	C-O	-11.19	1.11	1.24
3	V	367	GLN	CD-NE2	-11.19	1.09	1.33
3	I	218	VAL	C-O	-11.19	1.08	1.24
3	I	367	GLN	CD-NE2	-11.19	1.09	1.33
3	4	367	GLN	CD-NE2	-11.18	1.09	1.33
3	L	367	GLN	CD-NE2	-11.17	1.09	1.33
3	O	367	GLN	CD-NE2	-11.16	1.09	1.33
3	Y	367	GLN	CD-NE2	-11.16	1.09	1.33
3	C	367	GLN	CD-NE2	-11.16	1.09	1.33
3	F	367	GLN	CD-NE2	-11.15	1.09	1.33
3	R	218	VAL	C-O	-11.15	1.08	1.24
3	7	218	VAL	C-O	-11.15	1.08	1.24
3	7	367	GLN	CD-NE2	-11.15	1.09	1.33
3	U	367	GLN	CD-NE2	-11.14	1.09	1.33
3	F	218	VAL	C-O	-11.14	1.08	1.24
3	1	367	GLN	CD-NE2	-11.14	1.09	1.33
3	U	218	VAL	C-O	-11.14	1.09	1.24
3	Y	218	VAL	C-O	-11.13	1.09	1.24
3	1	218	VAL	C-O	-11.13	1.09	1.24
3	4	218	VAL	C-O	-11.13	1.09	1.24
3	L	218	VAL	C-O	-11.13	1.09	1.24
3	C	218	VAL	C-O	-11.12	1.09	1.24
3	I	407[A]	ARG	CZ-NH1	-11.12	1.17	1.32
3	I	407[B]	ARG	CZ-NH1	-11.12	1.17	1.32
3	R	407[A]	ARG	CZ-NH1	-11.12	1.17	1.32
3	R	407[B]	ARG	CZ-NH1	-11.12	1.17	1.32
3	V	218	VAL	C-O	-11.12	1.09	1.24
3	7	407[A]	ARG	CZ-NH1	-11.12	1.17	1.32
3	7	407[B]	ARG	CZ-NH1	-11.12	1.17	1.32
3	F	407[A]	ARG	CZ-NH1	-11.11	1.17	1.32
3	F	407[B]	ARG	CZ-NH1	-11.11	1.17	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	407[A]	ARG	CZ-NH1	-11.11	1.17	1.32
3	Y	407[B]	ARG	CZ-NH1	-11.11	1.17	1.32
3	U	407[A]	ARG	CZ-NH1	-11.11	1.17	1.32
3	U	407[B]	ARG	CZ-NH1	-11.11	1.17	1.32
3	O	407[A]	ARG	CZ-NH1	-11.10	1.17	1.32
3	O	407[B]	ARG	CZ-NH1	-11.10	1.17	1.32
3	L	407[A]	ARG	CZ-NH1	-11.10	1.17	1.32
3	L	407[B]	ARG	CZ-NH1	-11.10	1.17	1.32
3	O	218	VAL	C-O	-11.10	1.09	1.24
3	C	407[A]	ARG	CZ-NH1	-11.07	1.17	1.32
3	C	407[B]	ARG	CZ-NH1	-11.07	1.17	1.32
3	V	407[A]	ARG	CZ-NH1	-11.06	1.17	1.32
3	V	407[B]	ARG	CZ-NH1	-11.06	1.17	1.32
3	1	407[A]	ARG	CZ-NH1	-11.06	1.17	1.32
3	1	407[B]	ARG	CZ-NH1	-11.06	1.17	1.32
3	4	407[A]	ARG	CZ-NH1	-11.05	1.17	1.32
3	4	407[B]	ARG	CZ-NH1	-11.05	1.17	1.32
3	L	89	VAL	C-N	-10.92	1.24	1.33
3	U	89	VAL	C-N	-10.89	1.24	1.33
3	F	89	VAL	C-N	-10.89	1.24	1.33
3	F	305	PRO	C-O	-10.85	1.10	1.24
3	O	89	VAL	C-N	-10.85	1.24	1.33
3	C	89	VAL	C-N	-10.84	1.24	1.33
3	I	305	PRO	C-O	-10.84	1.10	1.24
3	7	89	VAL	C-N	-10.84	1.24	1.33
3	R	89	VAL	C-N	-10.83	1.24	1.33
3	R	305	PRO	C-O	-10.83	1.10	1.24
3	V	89	VAL	C-N	-10.83	1.24	1.33
3	1	89	VAL	C-N	-10.82	1.24	1.33
3	Y	89	VAL	C-N	-10.81	1.24	1.33
3	U	305	PRO	C-O	-10.81	1.10	1.24
3	I	89	VAL	C-N	-10.81	1.24	1.33
3	C	305	PRO	C-O	-10.81	1.10	1.24
3	7	305	PRO	C-O	-10.80	1.10	1.24
3	1	305	PRO	C-O	-10.80	1.10	1.24
3	4	89	VAL	C-N	-10.80	1.24	1.33
3	7	73	THR	CB-CG2	-10.80	1.17	1.52
3	L	305	PRO	C-O	-10.79	1.10	1.24
3	O	73	THR	CB-CG2	-10.79	1.17	1.52
3	V	305	PRO	C-O	-10.79	1.10	1.24
3	U	73	THR	CB-CG2	-10.78	1.17	1.52
3	O	305	PRO	C-O	-10.78	1.10	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	73	THR	CB-CG2	-10.78	1.17	1.52
3	R	73	THR	CB-CG2	-10.78	1.17	1.52
3	Y	305	PRO	C-O	-10.78	1.10	1.24
3	C	73	THR	CB-CG2	-10.77	1.17	1.52
3	1	73	THR	CB-CG2	-10.77	1.17	1.52
3	V	73	THR	CB-CG2	-10.77	1.17	1.52
3	4	305	PRO	C-O	-10.77	1.10	1.24
3	F	73	THR	CB-CG2	-10.76	1.17	1.52
3	I	73	THR	CB-CG2	-10.76	1.17	1.52
3	Y	73	THR	CB-CG2	-10.76	1.17	1.52
3	4	73	THR	CB-CG2	-10.75	1.17	1.52
3	F	152	LEU	CG-CD2	-10.69	1.17	1.52
3	1	152	LEU	CG-CD2	-10.68	1.17	1.52
3	V	152	LEU	CG-CD2	-10.68	1.17	1.52
3	C	152	LEU	CG-CD2	-10.67	1.17	1.52
3	Y	152	LEU	CG-CD2	-10.67	1.17	1.52
3	4	152	LEU	CG-CD2	-10.67	1.17	1.52
3	I	152	LEU	CG-CD2	-10.67	1.17	1.52
3	R	152	LEU	CG-CD2	-10.66	1.17	1.52
3	U	152	LEU	CG-CD2	-10.66	1.17	1.52
3	L	152	LEU	CG-CD2	-10.66	1.17	1.52
3	7	152	LEU	CG-CD2	-10.66	1.17	1.52
3	O	152	LEU	CG-CD2	-10.65	1.17	1.52
3	4	308	PRO	CB-CG	-10.64	1.09	1.51
3	I	308	PRO	CB-CG	-10.63	1.09	1.51
3	R	308	PRO	CB-CG	-10.62	1.09	1.51
3	C	308	PRO	CB-CG	-10.62	1.09	1.51
3	F	308	PRO	CB-CG	-10.62	1.09	1.51
3	V	308	PRO	CB-CG	-10.62	1.09	1.51
3	7	308	PRO	CB-CG	-10.62	1.09	1.51
3	L	308	PRO	CB-CG	-10.62	1.09	1.51
3	O	308	PRO	CB-CG	-10.62	1.09	1.51
3	U	308	PRO	CB-CG	-10.61	1.09	1.51
3	Y	308	PRO	CB-CG	-10.61	1.09	1.51
3	1	308	PRO	CB-CG	-10.61	1.09	1.51
3	1	230	THR	CB-CG2	-10.57	1.17	1.52
3	I	230	THR	CB-CG2	-10.56	1.17	1.52
3	Y	230	THR	CB-CG2	-10.56	1.17	1.52
3	7	230	THR	CB-CG2	-10.56	1.17	1.52
3	V	230	THR	CB-CG2	-10.56	1.17	1.52
3	4	230	THR	CB-CG2	-10.55	1.17	1.52
3	R	230	THR	CB-CG2	-10.55	1.17	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	230	THR	CB-CG2	-10.55	1.17	1.52
3	U	230	THR	CB-CG2	-10.55	1.17	1.52
3	V	79	ASP	C-O	-10.54	1.11	1.23
3	F	230	THR	CB-CG2	-10.54	1.17	1.52
3	L	230	THR	CB-CG2	-10.54	1.17	1.52
3	4	79	ASP	C-O	-10.54	1.11	1.23
3	F	79	ASP	C-O	-10.54	1.11	1.23
3	I	79	ASP	C-O	-10.54	1.11	1.23
3	O	230	THR	CB-CG2	-10.53	1.17	1.52
3	O	79	ASP	C-O	-10.53	1.11	1.23
3	1	79	ASP	C-O	-10.52	1.11	1.23
3	C	79	ASP	C-O	-10.52	1.11	1.23
3	R	79	ASP	C-O	-10.51	1.11	1.23
3	U	79	ASP	C-O	-10.51	1.11	1.23
2	H	37	LEU	C-O	-10.51	1.11	1.23
3	Y	79	ASP	C-O	-10.50	1.11	1.23
3	7	79	ASP	C-O	-10.50	1.11	1.23
2	E	37	LEU	C-O	-10.49	1.11	1.23
2	6	37	LEU	C-O	-10.49	1.11	1.23
2	3	37	LEU	C-O	-10.48	1.11	1.23
3	L	79	ASP	C-O	-10.48	1.11	1.23
2	X	37	LEU	C-O	-10.48	1.11	1.23
2	B	37	LEU	C-O	-10.46	1.11	1.23
2	Q	37	LEU	C-O	-10.46	1.11	1.23
2	9	37	LEU	C-O	-10.45	1.11	1.23
2	T	37	LEU	C-O	-10.44	1.11	1.23
2	K	37	LEU	C-O	-10.43	1.11	1.23
2	N	37	LEU	C-O	-10.42	1.11	1.23
2	0	37	LEU	C-O	-10.42	1.11	1.23
3	R	297	ASN	CG-ND2	-10.24	1.11	1.33
3	4	297	ASN	CG-ND2	-10.24	1.11	1.33
2	T	81	ARG	C-O	-10.23	1.11	1.24
3	1	297	ASN	CG-ND2	-10.23	1.11	1.33
2	K	81	ARG	C-O	-10.23	1.11	1.24
3	7	297	ASN	CG-ND2	-10.23	1.11	1.33
3	I	297	ASN	CG-ND2	-10.22	1.11	1.33
3	L	297	ASN	CG-ND2	-10.22	1.11	1.33
3	U	297	ASN	CG-ND2	-10.22	1.11	1.33
3	V	297	ASN	CG-ND2	-10.22	1.11	1.33
2	6	81	ARG	C-O	-10.22	1.11	1.24
3	C	297	ASN	CG-ND2	-10.21	1.11	1.33
3	F	297	ASN	CG-ND2	-10.21	1.11	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	81	ARG	C-O	-10.21	1.11	1.24
2	Q	81	ARG	C-O	-10.21	1.11	1.24
2	9	81	ARG	C-O	-10.21	1.11	1.24
2	H	81	ARG	C-O	-10.21	1.11	1.24
2	N	81	ARG	C-O	-10.21	1.11	1.24
3	O	297	ASN	CG-ND2	-10.20	1.11	1.33
3	Y	297	ASN	CG-ND2	-10.21	1.11	1.33
2	3	81	ARG	C-O	-10.20	1.11	1.24
2	E	81	ARG	C-O	-10.19	1.11	1.24
2	B	81	ARG	C-O	-10.19	1.11	1.24
2	0	81	ARG	C-O	-10.18	1.11	1.24
3	1	499	GLN	CD-NE2	-10.04	1.12	1.33
3	V	499	GLN	CD-NE2	-10.03	1.12	1.33
3	1	341	ARG	CZ-NH2	-10.02	1.20	1.33
3	F	341	ARG	CZ-NH2	-10.02	1.20	1.33
3	V	341	ARG	CZ-NH2	-10.02	1.20	1.33
3	O	499	GLN	CD-NE2	-10.02	1.12	1.33
3	Y	499	GLN	CD-NE2	-10.02	1.12	1.33
3	4	499	GLN	CD-NE2	-10.01	1.12	1.33
3	I	134	ALA	C-N	-10.01	1.21	1.33
3	I	341	ARG	CZ-NH2	-10.01	1.20	1.33
3	C	499	GLN	CD-NE2	-10.00	1.12	1.33
3	O	134	ALA	C-N	-10.00	1.21	1.33
3	F	499	GLN	CD-NE2	-9.99	1.12	1.33
3	Y	341	ARG	CZ-NH2	-9.99	1.20	1.33
3	4	341	ARG	CZ-NH2	-9.99	1.20	1.33
3	R	499	GLN	CD-NE2	-9.99	1.12	1.33
3	7	499	GLN	CD-NE2	-9.99	1.12	1.33
3	U	499	GLN	CD-NE2	-9.99	1.12	1.33
3	U	341	ARG	CZ-NH2	-9.99	1.20	1.33
3	C	341	ARG	CZ-NH2	-9.98	1.20	1.33
3	7	341	ARG	CZ-NH2	-9.98	1.20	1.33
3	I	499	GLN	CD-NE2	-9.98	1.12	1.33
3	O	341	ARG	CZ-NH2	-9.98	1.20	1.33
3	L	499	GLN	CD-NE2	-9.97	1.12	1.33
3	U	134	ALA	C-N	-9.97	1.21	1.33
3	F	134	ALA	C-N	-9.96	1.21	1.33
3	R	134	ALA	C-N	-9.96	1.21	1.33
3	1	134	ALA	C-N	-9.96	1.21	1.33
3	C	134	ALA	C-N	-9.95	1.21	1.33
3	V	134	ALA	C-N	-9.95	1.21	1.33
3	4	136	ILE	CG1-CD1	-9.94	1.12	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	134	ALA	C-N	-9.94	1.21	1.33
3	U	136	ILE	CG1-CD1	-9.94	1.12	1.51
3	I	136	ILE	CG1-CD1	-9.93	1.13	1.51
3	I	440	TRP	CZ3-CH2	-9.93	1.15	1.40
3	L	341	ARG	CZ-NH2	-9.93	1.20	1.33
3	O	136	ILE	CG1-CD1	-9.93	1.13	1.51
3	Y	440	TRP	CZ3-CH2	-9.93	1.15	1.40
3	V	440	TRP	CZ3-CH2	-9.93	1.15	1.40
3	1	136	ILE	CG1-CD1	-9.93	1.13	1.51
3	F	136	ILE	CG1-CD1	-9.93	1.13	1.51
3	R	341	ARG	CZ-NH2	-9.93	1.20	1.33
3	Y	136	ILE	CG1-CD1	-9.93	1.13	1.51
3	1	440	TRP	CZ3-CH2	-9.93	1.15	1.40
3	7	136	ILE	CG1-CD1	-9.93	1.13	1.51
3	O	440	TRP	CZ3-CH2	-9.93	1.15	1.40
3	R	440	TRP	CZ3-CH2	-9.93	1.15	1.40
3	C	136	ILE	CG1-CD1	-9.92	1.13	1.51
3	C	440	TRP	CZ3-CH2	-9.92	1.15	1.40
3	R	136	ILE	CG1-CD1	-9.92	1.13	1.51
3	U	440	TRP	CZ3-CH2	-9.92	1.15	1.40
3	V	136	ILE	CG1-CD1	-9.92	1.13	1.51
3	L	136	ILE	CG1-CD1	-9.92	1.13	1.51
3	L	440	TRP	CZ3-CH2	-9.91	1.15	1.40
3	F	440	TRP	CZ3-CH2	-9.91	1.15	1.40
3	4	440	TRP	CZ3-CH2	-9.91	1.15	1.40
3	7	440	TRP	CZ3-CH2	-9.89	1.15	1.40
3	U	454	LYS	C-O	-9.87	1.12	1.24
3	4	454	LYS	C-O	-9.87	1.12	1.24
3	L	454	LYS	C-O	-9.86	1.12	1.24
3	R	454	LYS	C-O	-9.86	1.12	1.24
3	F	454	LYS	C-O	-9.85	1.12	1.24
3	C	454	LYS	C-O	-9.84	1.12	1.24
3	7	454	LYS	C-O	-9.83	1.12	1.24
3	1	454	LYS	C-O	-9.83	1.12	1.24
3	Y	454	LYS	C-O	-9.81	1.12	1.24
1	Z	99	ILE	CG1-CD1	-9.81	1.13	1.51
1	D	99	ILE	CG1-CD1	-9.81	1.13	1.51
3	V	454	LYS	C-O	-9.81	1.12	1.24
1	G	99	ILE	CG1-CD1	-9.80	1.13	1.51
1	M	99	ILE	CG1-CD1	-9.80	1.13	1.51
1	5	99	ILE	CG1-CD1	-9.80	1.13	1.51
1	8	99	ILE	CG1-CD1	-9.80	1.13	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	99	ILE	CG1-CD1	-9.79	1.13	1.51
3	O	454	LYS	C-O	-9.79	1.12	1.24
1	W	99	ILE	CG1-CD1	-9.79	1.13	1.51
1	2	99	ILE	CG1-CD1	-9.79	1.13	1.51
1	A	99	ILE	CG1-CD1	-9.79	1.13	1.51
1	S	99	ILE	CG1-CD1	-9.79	1.13	1.51
1	P	99	ILE	CG1-CD1	-9.79	1.13	1.51
3	I	454	LYS	C-O	-9.78	1.12	1.24
3	7	257	GLU	C-O	-9.77	1.11	1.24
3	1	532	ARG	CZ-NH1	-9.75	1.19	1.32
3	L	257	GLU	C-O	-9.74	1.11	1.24
3	F	257	GLU	C-O	-9.74	1.11	1.24
3	Y	257	GLU	C-O	-9.74	1.11	1.24
3	4	257	GLU	C-O	-9.74	1.11	1.24
3	C	257	GLU	C-O	-9.73	1.11	1.24
3	7	407[A]	ARG	CZ-NH2	-9.73	1.20	1.33
3	7	407[B]	ARG	CZ-NH2	-9.73	1.20	1.33
3	1	257	GLU	C-O	-9.73	1.11	1.24
3	U	257	GLU	C-O	-9.73	1.11	1.24
3	F	407[A]	ARG	CZ-NH2	-9.72	1.20	1.33
3	F	407[B]	ARG	CZ-NH2	-9.72	1.20	1.33
3	O	257	GLU	C-O	-9.72	1.11	1.24
3	R	257	GLU	C-O	-9.72	1.11	1.24
3	V	257	GLU	C-O	-9.72	1.11	1.24
3	I	257	GLU	C-O	-9.71	1.11	1.24
3	V	407[A]	ARG	CZ-NH2	-9.71	1.20	1.33
3	V	407[B]	ARG	CZ-NH2	-9.71	1.20	1.33
3	I	407[A]	ARG	CZ-NH2	-9.70	1.20	1.33
3	I	407[B]	ARG	CZ-NH2	-9.70	1.20	1.33
3	O	532	ARG	CZ-NH1	-9.71	1.19	1.32
3	C	407[A]	ARG	CZ-NH2	-9.69	1.20	1.33
3	C	407[B]	ARG	CZ-NH2	-9.69	1.20	1.33
3	O	407[A]	ARG	CZ-NH2	-9.69	1.20	1.33
3	O	407[B]	ARG	CZ-NH2	-9.69	1.20	1.33
3	4	407[A]	ARG	CZ-NH2	-9.69	1.20	1.33
3	4	407[B]	ARG	CZ-NH2	-9.69	1.20	1.33
3	Y	407[A]	ARG	CZ-NH2	-9.68	1.20	1.33
3	Y	407[B]	ARG	CZ-NH2	-9.68	1.20	1.33
3	1	407[A]	ARG	CZ-NH2	-9.68	1.20	1.33
3	1	407[B]	ARG	CZ-NH2	-9.68	1.20	1.33
3	C	532	ARG	CZ-NH1	-9.68	1.19	1.32
3	Y	532	ARG	CZ-NH1	-9.68	1.19	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	532	ARG	CZ-NH1	-9.67	1.19	1.32
3	7	532	ARG	CZ-NH1	-9.67	1.19	1.32
3	L	193	PRO	CB-CG	-9.66	1.01	1.49
3	L	532	ARG	CZ-NH1	-9.66	1.19	1.32
3	O	193	PRO	CB-CG	-9.66	1.01	1.49
3	R	532	ARG	CZ-NH1	-9.66	1.19	1.32
3	L	407[A]	ARG	CZ-NH2	-9.66	1.20	1.33
3	L	407[B]	ARG	CZ-NH2	-9.66	1.20	1.33
3	Y	193	PRO	CB-CG	-9.66	1.01	1.49
3	1	193	PRO	CB-CG	-9.65	1.01	1.49
3	I	193	PRO	CB-CG	-9.65	1.01	1.49
3	C	193	PRO	CB-CG	-9.65	1.01	1.49
3	I	532	ARG	CZ-NH1	-9.65	1.19	1.32
3	R	193	PRO	CB-CG	-9.65	1.01	1.49
3	V	193	PRO	CB-CG	-9.65	1.01	1.49
3	V	532	ARG	CZ-NH1	-9.65	1.19	1.32
3	U	407[A]	ARG	CZ-NH2	-9.65	1.21	1.33
3	U	407[B]	ARG	CZ-NH2	-9.65	1.21	1.33
3	R	407[A]	ARG	CZ-NH2	-9.64	1.21	1.33
3	R	407[B]	ARG	CZ-NH2	-9.64	1.21	1.33
3	7	193	PRO	CB-CG	-9.64	1.01	1.49
3	U	193	PRO	CB-CG	-9.64	1.01	1.49
3	F	193	PRO	CB-CG	-9.64	1.01	1.49
3	F	532	ARG	CZ-NH1	-9.64	1.19	1.32
3	4	193	PRO	CB-CG	-9.64	1.01	1.49
3	U	532	ARG	CZ-NH1	-9.64	1.19	1.32
1	G	12	MET	C-O	-9.63	1.12	1.24
3	Y	192	LEU	CG-CD2	-9.58	1.21	1.52
3	1	192	LEU	CG-CD2	-9.58	1.21	1.52
3	U	192	LEU	CG-CD2	-9.57	1.21	1.52
3	C	192	LEU	CG-CD2	-9.56	1.21	1.52
3	R	192	LEU	CG-CD2	-9.56	1.21	1.52
3	7	192	LEU	CG-CD2	-9.56	1.21	1.52
3	F	192	LEU	CG-CD2	-9.56	1.21	1.52
3	L	192	LEU	CG-CD2	-9.55	1.21	1.52
1	W	12	MET	C-O	-9.55	1.12	1.24
1	8	12	MET	C-O	-9.55	1.12	1.24
3	I	192	LEU	CG-CD2	-9.54	1.21	1.52
3	O	192	LEU	CG-CD2	-9.55	1.21	1.52
3	V	192	LEU	CG-CD2	-9.55	1.21	1.52
3	4	192	LEU	CG-CD2	-9.55	1.21	1.52
1	A	12	MET	C-O	-9.54	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	12	MET	C-O	-9.53	1.12	1.24
1	2	12	MET	C-O	-9.54	1.12	1.24
2	N	76	PHE	C-O	-9.52	1.12	1.24
1	P	12	MET	C-O	-9.52	1.12	1.24
2	T	76	PHE	C-O	-9.52	1.12	1.24
1	5	12	MET	C-O	-9.52	1.12	1.24
1	M	12	MET	C-O	-9.52	1.12	1.24
2	3	76	PHE	C-O	-9.52	1.12	1.24
1	D	12	MET	C-O	-9.51	1.12	1.24
2	Q	76	PHE	C-O	-9.51	1.12	1.24
1	J	12	MET	C-O	-9.51	1.12	1.24
1	S	12	MET	C-O	-9.51	1.12	1.24
2	H	76	PHE	C-O	-9.49	1.12	1.24
2	E	76	PHE	C-O	-9.49	1.12	1.24
3	R	186	LEU	CG-CD2	-9.48	1.21	1.52
2	B	76	PHE	C-O	-9.48	1.12	1.24
2	X	76	PHE	C-O	-9.46	1.12	1.24
3	Y	186	LEU	CG-CD2	-9.46	1.21	1.52
3	L	186	LEU	CG-CD2	-9.46	1.21	1.52
3	V	186	LEU	CG-CD2	-9.46	1.21	1.52
3	C	186	LEU	CG-CD2	-9.46	1.21	1.52
2	K	76	PHE	C-O	-9.46	1.12	1.24
3	F	186	LEU	CG-CD2	-9.45	1.21	1.52
3	O	186	LEU	CG-CD2	-9.46	1.21	1.52
2	0	76	PHE	C-O	-9.45	1.12	1.24
3	1	186	LEU	CG-CD2	-9.45	1.21	1.52
3	7	186	LEU	CG-CD2	-9.45	1.21	1.52
2	6	76	PHE	C-O	-9.44	1.12	1.24
3	4	186	LEU	CG-CD2	-9.44	1.21	1.52
2	9	76	PHE	C-O	-9.44	1.12	1.24
3	U	186	LEU	CG-CD2	-9.44	1.21	1.52
3	I	186	LEU	CG-CD2	-9.42	1.21	1.52
2	9	134	TRP	CB-CG	-9.38	1.21	1.50
2	K	134	TRP	CB-CG	-9.38	1.21	1.50
2	0	134	TRP	CB-CG	-9.37	1.21	1.50
2	3	134	TRP	CB-CG	-9.37	1.21	1.50
2	E	134	TRP	CB-CG	-9.36	1.21	1.50
2	T	134	TRP	CB-CG	-9.37	1.21	1.50
2	B	134	TRP	CB-CG	-9.36	1.21	1.50
2	Q	134	TRP	CB-CG	-9.36	1.21	1.50
2	X	134	TRP	CB-CG	-9.36	1.21	1.50
2	N	134	TRP	CB-CG	-9.36	1.21	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	244	MET	CB-CG	-9.35	1.24	1.52
3	4	361	MET	CB-CG	-9.34	1.24	1.52
3	R	361	MET	CB-CG	-9.34	1.24	1.52
3	U	244	MET	CB-CG	-9.34	1.24	1.52
2	H	134	TRP	CB-CG	-9.33	1.21	1.50
3	1	244	MET	CB-CG	-9.33	1.24	1.52
3	1	361	MET	CB-CG	-9.33	1.24	1.52
3	4	244	MET	CB-CG	-9.33	1.24	1.52
2	6	134	TRP	CB-CG	-9.33	1.21	1.50
3	I	244	MET	CB-CG	-9.33	1.24	1.52
3	I	361	MET	CB-CG	-9.33	1.24	1.52
3	7	244	MET	CB-CG	-9.33	1.24	1.52
3	F	361	MET	CB-CG	-9.32	1.24	1.52
3	V	361	MET	CB-CG	-9.32	1.24	1.52
3	U	361	MET	CB-CG	-9.32	1.24	1.52
3	F	244	MET	CB-CG	-9.32	1.24	1.52
3	Y	244	MET	CB-CG	-9.32	1.24	1.52
3	C	244	MET	CB-CG	-9.32	1.24	1.52
3	C	361	MET	CB-CG	-9.32	1.24	1.52
3	L	244	MET	CB-CG	-9.32	1.24	1.52
3	O	361	MET	CB-CG	-9.31	1.24	1.52
3	V	244	MET	CB-CG	-9.30	1.24	1.52
3	Y	361	MET	CB-CG	-9.30	1.24	1.52
3	O	244	MET	CB-CG	-9.30	1.24	1.52
3	7	361	MET	CB-CG	-9.30	1.24	1.52
3	L	361	MET	CB-CG	-9.29	1.24	1.52
3	R	108	MET	SD-CE	-9.25	1.56	1.79
3	F	108	MET	SD-CE	-9.25	1.56	1.79
3	O	108	MET	SD-CE	-9.24	1.56	1.79
3	U	108	MET	SD-CE	-9.24	1.56	1.79
3	C	108	MET	SD-CE	-9.24	1.56	1.79
3	L	108	MET	SD-CE	-9.23	1.56	1.79
3	Y	108	MET	SD-CE	-9.23	1.56	1.79
3	V	108	MET	SD-CE	-9.22	1.56	1.79
3	7	108	MET	SD-CE	-9.22	1.56	1.79
3	4	108	MET	SD-CE	-9.22	1.56	1.79
3	I	108	MET	SD-CE	-9.21	1.56	1.79
3	1	108	MET	SD-CE	-9.21	1.56	1.79
3	I	451	MET	CB-CG	-9.18	1.25	1.52
3	I	210	LEU	CG-CD2	-9.18	1.22	1.52
3	U	451	MET	CB-CG	-9.18	1.25	1.52
3	F	210	LEU	CG-CD2	-9.17	1.22	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	480	PRO	CB-CG	-9.17	1.03	1.49
3	U	210	LEU	CG-CD2	-9.17	1.22	1.52
3	L	480	PRO	CB-CG	-9.17	1.03	1.49
3	R	210	LEU	CG-CD2	-9.16	1.22	1.52
3	Y	480	PRO	CB-CG	-9.16	1.03	1.49
3	V	480	PRO	CB-CG	-9.16	1.03	1.49
3	Y	451	MET	CB-CG	-9.16	1.25	1.52
3	C	480	PRO	CB-CG	-9.16	1.03	1.49
3	L	451	MET	CB-CG	-9.16	1.25	1.52
3	O	480	PRO	CB-CG	-9.16	1.03	1.49
3	1	451	MET	CB-CG	-9.16	1.25	1.52
3	4	210	LEU	CG-CD2	-9.16	1.22	1.52
3	7	210	LEU	CG-CD2	-9.16	1.22	1.52
3	7	480	PRO	CB-CG	-9.16	1.03	1.49
3	C	210	LEU	CG-CD2	-9.15	1.22	1.52
3	O	451	MET	CB-CG	-9.15	1.25	1.52
3	V	451	MET	CB-CG	-9.15	1.25	1.52
3	Y	210	LEU	CG-CD2	-9.15	1.22	1.52
3	1	210	LEU	CG-CD2	-9.15	1.22	1.52
3	1	480	PRO	CB-CG	-9.15	1.03	1.49
3	F	480	PRO	CB-CG	-9.15	1.03	1.49
3	I	480	PRO	CB-CG	-9.15	1.03	1.49
3	O	210	LEU	CG-CD2	-9.15	1.22	1.52
3	4	451	MET	CB-CG	-9.15	1.25	1.52
3	7	451	MET	CB-CG	-9.15	1.25	1.52
3	V	210	LEU	CG-CD2	-9.15	1.22	1.52
3	C	451	MET	CB-CG	-9.15	1.25	1.52
3	F	451	MET	CB-CG	-9.15	1.25	1.52
3	U	480	PRO	CB-CG	-9.15	1.03	1.49
3	4	480	PRO	CB-CG	-9.14	1.03	1.49
3	R	451	MET	CB-CG	-9.14	1.25	1.52
3	L	210	LEU	CG-CD2	-9.13	1.22	1.52
3	I	404	ARG	CZ-NH1	-9.12	1.20	1.32
3	L	404	ARG	CZ-NH1	-9.11	1.20	1.32
3	1	404	ARG	CZ-NH1	-9.10	1.20	1.32
3	R	404	ARG	CZ-NH1	-9.09	1.20	1.32
3	V	404	ARG	CZ-NH1	-9.09	1.20	1.32
3	O	404	ARG	CZ-NH1	-9.08	1.20	1.32
3	4	404	ARG	CZ-NH1	-9.07	1.20	1.32
3	7	404	ARG	CZ-NH1	-9.07	1.20	1.32
3	C	404	ARG	CZ-NH1	-9.07	1.20	1.32
3	U	404	ARG	CZ-NH1	-9.06	1.20	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	97	ASP	C-O	-9.05	1.19	1.23
3	F	404	ARG	CZ-NH1	-9.04	1.20	1.32
2	K	140	VAL	C-N	9.03	1.44	1.33
3	Y	404	ARG	CZ-NH1	-9.02	1.20	1.32
1	S	97	ASP	C-O	-9.01	1.19	1.23
3	Y	166	PRO	C-O	-9.01	1.10	1.23
1	5	97	ASP	C-O	-8.99	1.19	1.23
2	E	140	VAL	C-N	8.98	1.44	1.33
1	G	97	ASP	C-O	-8.97	1.19	1.23
3	7	166	PRO	C-O	-8.97	1.10	1.23
2	T	140	VAL	C-N	8.97	1.44	1.33
2	9	140	VAL	C-N	8.97	1.44	1.33
2	B	140	VAL	C-N	8.97	1.44	1.33
3	L	166	PRO	C-O	-8.96	1.10	1.23
2	N	140	VAL	C-N	8.96	1.44	1.33
2	E	85	PHE	CE1-CZ	-8.96	1.11	1.38
2	H	140	VAL	C-N	8.96	1.44	1.33
3	R	166	PRO	C-O	-8.96	1.10	1.23
2	0	140	VAL	C-N	8.96	1.44	1.33
3	U	166	PRO	C-O	-8.96	1.10	1.23
3	I	166	PRO	C-O	-8.95	1.10	1.23
3	C	166	PRO	C-O	-8.95	1.10	1.23
2	X	140	VAL	C-N	8.95	1.44	1.33
2	0	85	PHE	CE1-CZ	-8.95	1.11	1.38
3	1	166	PRO	C-O	-8.94	1.10	1.23
2	3	85	PHE	CE1-CZ	-8.95	1.11	1.38
3	4	166	PRO	C-O	-8.94	1.10	1.23
2	K	85	PHE	CE1-CZ	-8.94	1.11	1.38
2	T	85	PHE	CE1-CZ	-8.94	1.11	1.38
2	B	85	PHE	CE1-CZ	-8.94	1.11	1.38
2	6	140	VAL	C-N	8.94	1.44	1.33
2	H	85	PHE	CE1-CZ	-8.94	1.11	1.38
3	7	414	ILE	CG1-CD1	-8.94	1.17	1.51
2	9	85	PHE	CE1-CZ	-8.94	1.11	1.38
3	F	414	ILE	CG1-CD1	-8.93	1.17	1.51
3	O	414	ILE	CG1-CD1	-8.93	1.17	1.51
2	0	93	LYS	CE-NZ	-8.93	1.22	1.49
3	U	414	ILE	CG1-CD1	-8.93	1.17	1.51
2	H	93	LYS	CE-NZ	-8.93	1.22	1.49
3	V	414	ILE	CG1-CD1	-8.93	1.17	1.51
3	O	166	PRO	C-O	-8.93	1.10	1.23
2	3	140	VAL	C-N	8.93	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	85	PHE	CE1-CZ	-8.93	1.11	1.38
1	8	97	ASP	C-O	-8.93	1.19	1.23
2	E	93	LYS	CE-NZ	-8.92	1.22	1.49
2	X	85	PHE	CE1-CZ	-8.92	1.11	1.38
2	9	93	LYS	CE-NZ	-8.92	1.22	1.49
3	1	414	ILE	CG1-CD1	-8.92	1.17	1.51
3	C	414	ILE	CG1-CD1	-8.92	1.17	1.51
3	R	414	ILE	CG1-CD1	-8.92	1.17	1.51
2	B	93	LYS	CE-NZ	-8.92	1.22	1.49
3	I	414	ILE	CG1-CD1	-8.92	1.17	1.51
2	Q	93	LYS	CE-NZ	-8.91	1.22	1.49
2	T	93	LYS	CE-NZ	-8.91	1.22	1.49
3	V	166	PRO	C-O	-8.91	1.10	1.23
2	X	93	LYS	CE-NZ	-8.91	1.22	1.49
3	Y	414	ILE	CG1-CD1	-8.91	1.17	1.51
2	K	93	LYS	CE-NZ	-8.91	1.22	1.49
3	L	414	ILE	CG1-CD1	-8.91	1.17	1.51
2	N	93	LYS	CE-NZ	-8.91	1.22	1.49
2	3	93	LYS	CE-NZ	-8.91	1.22	1.49
3	4	414	ILE	CG1-CD1	-8.91	1.17	1.51
2	6	85	PHE	CE1-CZ	-8.91	1.11	1.38
3	F	159	PHE	CE2-CZ	-8.90	1.11	1.38
2	N	85	PHE	CE1-CZ	-8.90	1.11	1.38
1	2	97	ASP	C-O	-8.90	1.19	1.23
2	Q	140	VAL	C-N	8.90	1.44	1.33
3	O	159	PHE	CE2-CZ	-8.90	1.11	1.38
1	J	78	PRO	CB-CG	-8.90	1.05	1.49
3	F	166	PRO	C-O	-8.90	1.10	1.23
2	6	93	LYS	CE-NZ	-8.90	1.22	1.49
1	8	78	PRO	CB-CG	-8.90	1.05	1.49
1	5	78	PRO	CB-CG	-8.89	1.05	1.49
1	D	78	PRO	CB-CG	-8.89	1.05	1.49
3	I	159	PHE	CE2-CZ	-8.89	1.11	1.38
1	S	78	PRO	CB-CG	-8.89	1.05	1.49
1	2	78	PRO	CB-CG	-8.89	1.05	1.49
3	4	159	PHE	CE2-CZ	-8.89	1.11	1.38
1	Z	78	PRO	CB-CG	-8.89	1.05	1.49
1	A	78	PRO	CB-CG	-8.88	1.05	1.49
3	V	159	PHE	CE2-CZ	-8.88	1.11	1.38
1	W	78	PRO	CB-CG	-8.88	1.05	1.49
1	A	97	ASP	C-O	-8.88	1.19	1.23
1	G	78	PRO	CB-CG	-8.88	1.05	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	78	PRO	CB-CG	-8.88	1.05	1.49
1	M	78	PRO	CB-CG	-8.88	1.05	1.49
3	7	159	PHE	CE2-CZ	-8.88	1.12	1.38
3	C	159	PHE	CE2-CZ	-8.88	1.12	1.38
3	R	159	PHE	CE2-CZ	-8.88	1.12	1.38
1	J	97	ASP	C-O	-8.88	1.19	1.23
3	L	159	PHE	CE2-CZ	-8.87	1.12	1.38
3	1	159	PHE	CE2-CZ	-8.87	1.12	1.38
3	L	101	LYS	C-O	-8.86	1.13	1.24
3	Y	159	PHE	CE2-CZ	-8.86	1.12	1.38
3	U	159	PHE	CE2-CZ	-8.86	1.12	1.38
1	Z	97	ASP	C-O	-8.85	1.19	1.23
3	7	101	LYS	C-O	-8.85	1.13	1.24
3	O	101	LYS	C-O	-8.83	1.13	1.24
1	P	97	ASP	C-O	-8.83	1.19	1.23
1	D	97	ASP	C-O	-8.83	1.19	1.23
3	I	101	LYS	C-O	-8.82	1.13	1.24
3	1	101	LYS	C-O	-8.82	1.13	1.24
3	U	101	LYS	C-O	-8.82	1.13	1.24
3	C	101	LYS	C-O	-8.80	1.13	1.24
2	N	134	TRP	CZ3-CH2	-8.80	1.18	1.40
3	4	101	LYS	C-O	-8.80	1.13	1.24
3	Y	101	LYS	C-O	-8.79	1.13	1.24
3	Y	198	ILE	CG1-CD1	-8.79	1.17	1.51
3	1	198	ILE	CG1-CD1	-8.79	1.17	1.51
3	4	198	ILE	CG1-CD1	-8.79	1.17	1.51
3	F	198	ILE	CG1-CD1	-8.79	1.17	1.51
3	I	198	ILE	CG1-CD1	-8.79	1.17	1.51
3	V	198	ILE	CG1-CD1	-8.79	1.17	1.51
3	L	198	ILE	CG1-CD1	-8.78	1.17	1.51
2	0	134	TRP	CZ3-CH2	-8.78	1.18	1.40
3	C	198	ILE	CG1-CD1	-8.78	1.17	1.51
3	F	101	LYS	C-O	-8.78	1.13	1.24
3	7	198	ILE	CG1-CD1	-8.78	1.17	1.51
3	O	198	ILE	CG1-CD1	-8.78	1.17	1.51
2	Q	134	TRP	CZ3-CH2	-8.78	1.18	1.40
3	V	101	LYS	C-O	-8.78	1.13	1.24
3	R	101	LYS	C-O	-8.77	1.13	1.24
2	T	134	TRP	CZ3-CH2	-8.77	1.18	1.40
3	U	532	ARG	CZ-NH2	-8.77	1.22	1.33
2	6	134	TRP	CZ3-CH2	-8.77	1.18	1.40
3	U	198	ILE	CG1-CD1	-8.77	1.17	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	198	ILE	CG1-CD1	-8.77	1.17	1.51
2	9	134	TRP	CZ3-CH2	-8.77	1.18	1.40
2	B	134	TRP	CZ3-CH2	-8.76	1.18	1.40
2	3	134	TRP	CZ3-CH2	-8.76	1.18	1.40
3	Y	532	ARG	CZ-NH2	-8.76	1.22	1.33
2	K	134	TRP	CZ3-CH2	-8.75	1.18	1.40
2	E	134	TRP	CZ3-CH2	-8.75	1.18	1.40
2	X	134	TRP	CZ3-CH2	-8.75	1.18	1.40
2	H	134	TRP	CZ3-CH2	-8.75	1.18	1.40
3	F	108	MET	CB-CG	-8.74	1.26	1.52
3	L	108	MET	CB-CG	-8.74	1.26	1.52
3	R	108	MET	CB-CG	-8.73	1.26	1.52
1	M	97	ASP	C-O	-8.73	1.19	1.23
3	V	108	MET	CB-CG	-8.73	1.26	1.52
3	7	108	MET	CB-CG	-8.73	1.26	1.52
3	C	108	MET	CB-CG	-8.73	1.26	1.52
3	Y	108	MET	CB-CG	-8.73	1.26	1.52
3	4	108	MET	CB-CG	-8.72	1.26	1.52
3	7	532	ARG	CZ-NH2	-8.72	1.22	1.33
3	1	108	MET	CB-CG	-8.71	1.26	1.52
3	O	108	MET	CB-CG	-8.71	1.26	1.52
3	V	532	ARG	CZ-NH2	-8.71	1.22	1.33
3	I	350	GLU	C-O	-8.71	1.14	1.24
3	L	134	ALA	C-N	-8.70	1.21	1.33
3	U	108	MET	CB-CG	-8.70	1.26	1.52
3	I	108	MET	CB-CG	-8.70	1.26	1.52
3	L	449	PRO	CG-CD	-8.70	1.21	1.50
2	T	77	PHE	CD2-CE2	-8.70	1.12	1.38
3	F	532	ARG	CZ-NH2	-8.69	1.22	1.33
3	R	449	PRO	CG-CD	-8.69	1.21	1.50
3	V	449	PRO	CG-CD	-8.69	1.21	1.50
3	I	449	PRO	CG-CD	-8.69	1.21	1.50
3	O	449	PRO	CG-CD	-8.69	1.21	1.50
3	7	449	PRO	CG-CD	-8.69	1.21	1.50
3	C	532	ARG	CZ-NH2	-8.69	1.22	1.33
3	Y	449	PRO	CG-CD	-8.69	1.21	1.50
2	3	77	PHE	CD2-CE2	-8.69	1.12	1.38
2	B	77	PHE	CD2-CE2	-8.68	1.12	1.38
2	E	77	PHE	CD2-CE2	-8.68	1.12	1.38
3	F	449	PRO	CG-CD	-8.68	1.21	1.50
2	Q	77	PHE	CD2-CE2	-8.68	1.12	1.38
3	C	449	PRO	CG-CD	-8.68	1.21	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	532	ARG	CZ-NH2	-8.68	1.22	1.33
2	K	77	PHE	CD2-CE2	-8.68	1.12	1.38
3	R	532	ARG	CZ-NH2	-8.68	1.22	1.33
3	1	449	PRO	CG-CD	-8.68	1.21	1.50
3	4	449	PRO	CG-CD	-8.68	1.21	1.50
3	Y	134	ALA	C-N	-8.68	1.21	1.33
2	0	77	PHE	CD2-CE2	-8.68	1.12	1.38
2	6	77	PHE	CD2-CE2	-8.67	1.12	1.38
3	U	449	PRO	CG-CD	-8.67	1.21	1.50
2	H	77	PHE	CD2-CE2	-8.67	1.12	1.38
2	9	77	PHE	CD2-CE2	-8.67	1.12	1.38
3	F	479	ARG	CZ-NH2	-8.67	1.22	1.33
2	X	77	PHE	CD2-CE2	-8.66	1.12	1.38
3	V	479	ARG	CZ-NH2	-8.66	1.22	1.33
3	U	479	ARG	CZ-NH2	-8.66	1.22	1.33
2	N	77	PHE	CD2-CE2	-8.65	1.12	1.38
3	I	479	ARG	CZ-NH2	-8.65	1.22	1.33
3	I	487	LYS	C-O	-8.64	1.12	1.24
3	7	487	LYS	C-O	-8.64	1.12	1.24
3	L	350	GLU	C-O	-8.64	1.14	1.24
3	C	479	ARG	CZ-NH2	-8.63	1.22	1.33
3	F	487	LYS	C-O	-8.63	1.12	1.24
3	O	532	ARG	CZ-NH2	-8.63	1.22	1.33
3	4	134	ALA	C-N	-8.63	1.21	1.33
3	7	479	ARG	CZ-NH2	-8.63	1.22	1.33
3	R	479	ARG	CZ-NH2	-8.63	1.22	1.33
3	L	487	LYS	C-O	-8.63	1.12	1.24
3	4	479	ARG	CZ-NH2	-8.63	1.22	1.33
3	C	350	GLU	C-O	-8.62	1.14	1.24
3	L	532	ARG	CZ-NH2	-8.62	1.22	1.33
3	V	487	LYS	C-O	-8.62	1.12	1.24
3	1	350	GLU	C-O	-8.62	1.14	1.24
3	4	532	ARG	CZ-NH2	-8.62	1.22	1.33
3	1	532	ARG	CZ-NH2	-8.62	1.22	1.33
3	C	487	LYS	C-O	-8.62	1.12	1.24
3	F	350	GLU	C-O	-8.62	1.14	1.24
3	L	479	ARG	CZ-NH2	-8.62	1.22	1.33
3	4	350	GLU	C-O	-8.62	1.14	1.24
3	U	350	GLU	C-O	-8.62	1.14	1.24
3	O	479	ARG	CZ-NH2	-8.61	1.22	1.33
3	Y	257	GLU	CD-OE2	-8.61	1.08	1.25
3	O	487	LYS	C-O	-8.61	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	49	LYS	CE-NZ	-8.61	1.23	1.49
3	Y	487	LYS	C-O	-8.61	1.12	1.24
3	1	411	LYS	CE-NZ	-8.60	1.23	1.49
3	U	487	LYS	C-O	-8.60	1.12	1.24
3	F	49	LYS	CE-NZ	-8.60	1.23	1.49
3	O	350	GLU	C-O	-8.60	1.14	1.24
3	L	257	GLU	CD-OE2	-8.60	1.09	1.25
3	R	411	LYS	CE-NZ	-8.60	1.23	1.49
3	Y	479	ARG	CZ-NH2	-8.60	1.22	1.33
3	4	487	LYS	C-O	-8.59	1.12	1.24
3	1	49	LYS	CE-NZ	-8.59	1.23	1.49
3	I	49	LYS	CE-NZ	-8.59	1.23	1.49
3	V	49	LYS	CE-NZ	-8.59	1.23	1.49
3	V	257	GLU	CD-OE2	-8.59	1.09	1.25
3	7	350	GLU	C-O	-8.59	1.14	1.24
3	C	411	LYS	CE-NZ	-8.58	1.23	1.49
3	I	411	LYS	CE-NZ	-8.58	1.23	1.49
3	R	487	LYS	C-O	-8.58	1.12	1.24
3	R	350	GLU	C-O	-8.58	1.14	1.24
3	1	487	LYS	C-O	-8.58	1.12	1.24
3	7	49	LYS	CE-NZ	-8.58	1.23	1.49
3	F	257	GLU	CD-OE2	-8.58	1.09	1.25
3	Y	411	LYS	CE-NZ	-8.58	1.23	1.49
3	U	49	LYS	CE-NZ	-8.58	1.23	1.49
3	C	49	LYS	CE-NZ	-8.58	1.23	1.49
3	4	257	GLU	CD-OE2	-8.58	1.09	1.25
3	U	411	LYS	CE-NZ	-8.58	1.23	1.49
3	7	411	LYS	CE-NZ	-8.58	1.23	1.49
3	I	257	GLU	CD-OE2	-8.57	1.09	1.25
3	O	411	LYS	CE-NZ	-8.57	1.23	1.49
3	Y	350	GLU	C-O	-8.57	1.14	1.24
3	Y	49	LYS	CE-NZ	-8.57	1.23	1.49
3	C	257	GLU	CD-OE2	-8.57	1.09	1.25
3	L	411	LYS	CE-NZ	-8.57	1.23	1.49
3	O	49	LYS	CE-NZ	-8.57	1.23	1.49
3	R	49	LYS	CE-NZ	-8.57	1.23	1.49
3	V	350	GLU	C-O	-8.57	1.14	1.24
3	1	479	ARG	CZ-NH2	-8.56	1.22	1.33
3	4	411	LYS	CE-NZ	-8.56	1.23	1.49
3	V	411	LYS	CE-NZ	-8.56	1.23	1.49
3	7	257	GLU	CD-OE2	-8.56	1.09	1.25
3	1	257	GLU	CD-OE2	-8.56	1.09	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	411	LYS	CE-NZ	-8.56	1.23	1.49
3	4	49	LYS	CE-NZ	-8.56	1.23	1.49
3	R	257	GLU	CD-OE2	-8.55	1.09	1.25
3	U	257	GLU	CD-OE2	-8.55	1.09	1.25
3	R	184	GLN	CD-NE2	-8.55	1.15	1.33
3	1	184	GLN	CD-NE2	-8.54	1.15	1.33
3	O	257	GLU	CD-OE2	-8.54	1.09	1.25
3	V	184	GLN	CD-NE2	-8.54	1.15	1.33
3	F	184	GLN	CD-NE2	-8.53	1.15	1.33
3	C	184	GLN	CD-NE2	-8.53	1.15	1.33
3	I	184	GLN	CD-NE2	-8.53	1.15	1.33
3	4	184	GLN	CD-NE2	-8.52	1.15	1.33
3	U	184	GLN	CD-NE2	-8.52	1.15	1.33
3	O	184	GLN	CD-NE2	-8.52	1.15	1.33
3	L	184	GLN	CD-NE2	-8.52	1.15	1.33
3	R	179	PRO	CB-CG	-8.52	1.07	1.49
3	7	184	GLN	CD-NE2	-8.52	1.15	1.33
3	7	179	PRO	CB-CG	-8.51	1.07	1.49
3	4	130	ILE	C-N	-8.51	1.21	1.33
3	Y	184	GLN	CD-NE2	-8.51	1.15	1.33
3	I	179	PRO	CB-CG	-8.51	1.07	1.49
3	L	81	ARG	CZ-NH1	-8.51	1.20	1.32
3	F	514	ARG	CB-CG	-8.50	1.26	1.52
3	L	179	PRO	CB-CG	-8.50	1.07	1.49
3	Y	179	PRO	CB-CG	-8.50	1.07	1.49
3	R	81	ARG	CZ-NH1	-8.50	1.20	1.32
3	U	179	PRO	CB-CG	-8.50	1.07	1.49
3	I	479	ARG	CD-NE	-8.50	1.34	1.46
3	O	179	PRO	CB-CG	-8.50	1.07	1.49
3	V	179	PRO	CB-CG	-8.50	1.07	1.49
3	F	407[A]	ARG	CD-NE	-8.49	1.34	1.46
3	F	407[B]	ARG	CD-NE	-8.49	1.34	1.46
3	I	514	ARG	CB-CG	-8.49	1.26	1.52
3	V	81	ARG	CZ-NH1	-8.49	1.20	1.32
3	1	179	PRO	CB-CG	-8.49	1.07	1.49
3	R	514	ARG	CB-CG	-8.49	1.26	1.52
3	U	81	ARG	CZ-NH1	-8.49	1.20	1.32
3	F	81	ARG	CZ-NH1	-8.48	1.20	1.32
3	F	179	PRO	CB-CG	-8.48	1.07	1.49
3	7	514	ARG	CB-CG	-8.48	1.26	1.52
3	F	130	ILE	C-N	-8.48	1.21	1.33
3	4	179	PRO	CB-CG	-8.48	1.07	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	514	ARG	CB-CG	-8.48	1.27	1.52
3	O	514	ARG	CB-CG	-8.48	1.27	1.52
3	R	479	ARG	CD-NE	-8.48	1.34	1.46
3	U	514	ARG	CB-CG	-8.48	1.27	1.52
3	C	81	ARG	CZ-NH1	-8.48	1.20	1.32
3	L	514	ARG	CB-CG	-8.48	1.27	1.52
3	Y	81	ARG	CZ-NH1	-8.48	1.20	1.32
3	Y	479	ARG	CD-NE	-8.48	1.34	1.46
3	Y	514	ARG	CB-CG	-8.48	1.27	1.52
3	1	514	ARG	CB-CG	-8.48	1.27	1.52
3	4	81	ARG	CZ-NH1	-8.48	1.20	1.32
3	7	216	ALA	C-O	-8.48	1.13	1.24
3	O	81	ARG	CZ-NH1	-8.47	1.20	1.32
3	4	514	ARG	CB-CG	-8.47	1.27	1.52
3	I	407[A]	ARG	CD-NE	-8.47	1.34	1.46
3	I	407[B]	ARG	CD-NE	-8.47	1.34	1.46
3	V	514	ARG	CB-CG	-8.47	1.27	1.52
3	7	81	ARG	CZ-NH1	-8.47	1.20	1.32
3	I	130	ILE	C-N	-8.46	1.21	1.33
3	O	130	ILE	C-N	-8.46	1.21	1.33
3	Y	407[A]	ARG	CD-NE	-8.46	1.34	1.46
3	Y	407[B]	ARG	CD-NE	-8.46	1.34	1.46
3	V	407[A]	ARG	CD-NE	-8.46	1.34	1.46
3	V	407[B]	ARG	CD-NE	-8.46	1.34	1.46
3	U	407[A]	ARG	CD-NE	-8.46	1.34	1.46
3	U	407[B]	ARG	CD-NE	-8.46	1.34	1.46
3	V	130	ILE	C-N	-8.46	1.21	1.33
3	R	130	ILE	C-N	-8.46	1.21	1.33
3	Y	130	ILE	C-N	-8.46	1.21	1.33
3	U	479	ARG	CD-NE	-8.46	1.34	1.46
3	C	130	ILE	C-N	-8.45	1.21	1.33
3	I	81	ARG	CZ-NH1	-8.45	1.21	1.32
3	F	254	SER	C-O	-8.45	1.13	1.24
3	1	81	ARG	CZ-NH1	-8.45	1.21	1.32
3	7	130	ILE	C-N	-8.44	1.21	1.33
3	C	479	ARG	CD-NE	-8.44	1.34	1.46
3	7	407[A]	ARG	CD-NE	-8.44	1.34	1.46
3	7	407[B]	ARG	CD-NE	-8.44	1.34	1.46
3	V	216	ALA	C-O	-8.44	1.13	1.24
3	1	407[A]	ARG	CD-NE	-8.44	1.34	1.46
3	1	407[B]	ARG	CD-NE	-8.44	1.34	1.46
3	4	216	ALA	C-O	-8.44	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	407[A]	ARG	CD-NE	-8.43	1.34	1.46
3	R	407[B]	ARG	CD-NE	-8.43	1.34	1.46
3	U	254	SER	C-O	-8.43	1.13	1.24
3	O	140	ILE	CG1-CD1	-8.43	1.18	1.51
3	V	140	ILE	CG1-CD1	-8.43	1.18	1.51
3	V	254	SER	C-O	-8.43	1.13	1.24
3	Y	140	ILE	CG1-CD1	-8.43	1.18	1.51
3	U	130	ILE	C-N	-8.43	1.21	1.33
3	L	140	ILE	CG1-CD1	-8.42	1.18	1.51
3	C	407[A]	ARG	CD-NE	-8.42	1.34	1.46
3	C	407[B]	ARG	CD-NE	-8.42	1.34	1.46
3	R	140	ILE	CG1-CD1	-8.42	1.18	1.51
3	7	140	ILE	CG1-CD1	-8.42	1.19	1.51
3	U	140	ILE	CG1-CD1	-8.42	1.19	1.51
3	I	140	ILE	CG1-CD1	-8.42	1.19	1.51
3	1	130	ILE	C-N	-8.42	1.21	1.33
3	V	479	ARG	CD-NE	-8.42	1.34	1.46
3	4	140	ILE	CG1-CD1	-8.42	1.19	1.51
3	C	216	ALA	C-O	-8.42	1.13	1.24
3	I	91	ILE	CG1-CD1	-8.42	1.19	1.51
3	O	479	ARG	CD-NE	-8.42	1.34	1.46
3	C	140	ILE	CG1-CD1	-8.41	1.19	1.51
3	I	216	ALA	C-O	-8.41	1.13	1.24
3	R	254	SER	C-O	-8.41	1.13	1.24
3	4	479	ARG	CD-NE	-8.41	1.34	1.46
3	F	216	ALA	C-O	-8.41	1.13	1.24
3	L	254	SER	C-O	-8.41	1.13	1.24
3	O	407[A]	ARG	CD-NE	-8.41	1.34	1.46
3	O	407[B]	ARG	CD-NE	-8.41	1.34	1.46
3	Y	91	ILE	CG1-CD1	-8.41	1.19	1.51
3	U	91	ILE	CG1-CD1	-8.41	1.19	1.51
3	4	91	ILE	CG1-CD1	-8.40	1.19	1.51
3	L	130	ILE	C-N	-8.40	1.21	1.33
3	C	91	ILE	CG1-CD1	-8.40	1.19	1.51
3	F	140	ILE	CG1-CD1	-8.40	1.19	1.51
3	U	216	ALA	C-O	-8.40	1.13	1.24
3	O	294	SER	C-N	-8.40	1.16	1.33
3	V	294	SER	C-N	-8.40	1.16	1.33
3	1	140	ILE	CG1-CD1	-8.40	1.19	1.51
3	F	479	ARG	CD-NE	-8.40	1.34	1.46
3	I	294	SER	C-N	-8.40	1.16	1.33
3	O	91	ILE	CG1-CD1	-8.40	1.19	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	216	ALA	C-O	-8.40	1.13	1.24
3	R	294	SER	C-N	-8.40	1.16	1.33
3	Y	294	SER	C-N	-8.40	1.16	1.33
3	1	91	ILE	CG1-CD1	-8.40	1.19	1.51
3	7	91	ILE	CG1-CD1	-8.40	1.19	1.51
3	7	479	ARG	CD-NE	-8.40	1.34	1.46
3	F	91	ILE	CG1-CD1	-8.39	1.19	1.51
3	R	91	ILE	CG1-CD1	-8.39	1.19	1.51
3	1	294	SER	C-N	-8.39	1.16	1.33
3	Y	216	ALA	C-O	-8.39	1.13	1.24
3	4	254	SER	C-O	-8.39	1.13	1.24
3	C	254	SER	C-O	-8.39	1.13	1.24
3	L	216	ALA	C-O	-8.39	1.13	1.24
3	L	407[A]	ARG	CD-NE	-8.39	1.34	1.46
3	L	407[B]	ARG	CD-NE	-8.39	1.34	1.46
3	1	479	ARG	CD-NE	-8.39	1.34	1.46
3	7	294	SER	C-N	-8.39	1.16	1.33
2	T	148	LYS	CG-CD	-8.39	1.27	1.52
3	1	254	SER	C-O	-8.39	1.13	1.24
3	V	91	ILE	CG1-CD1	-8.39	1.19	1.51
3	L	91	ILE	CG1-CD1	-8.38	1.19	1.51
3	4	407[A]	ARG	CD-NE	-8.38	1.34	1.46
3	4	407[B]	ARG	CD-NE	-8.38	1.34	1.46
3	C	294	SER	C-N	-8.38	1.16	1.33
3	F	302	SER	CA-CB	-8.38	1.39	1.53
3	L	479	ARG	CD-NE	-8.38	1.34	1.46
2	Q	148	LYS	CG-CD	-8.38	1.27	1.52
2	3	148	LYS	CG-CD	-8.38	1.27	1.52
2	9	148	LYS	CG-CD	-8.38	1.27	1.52
3	F	294	SER	C-N	-8.37	1.16	1.33
3	4	294	SER	C-N	-8.37	1.16	1.33
2	H	148	LYS	CG-CD	-8.37	1.27	1.52
2	K	148	LYS	CG-CD	-8.37	1.27	1.52
3	V	302	SER	CA-CB	-8.37	1.39	1.53
3	U	294	SER	C-N	-8.37	1.16	1.33
2	N	148	LYS	CG-CD	-8.37	1.27	1.52
3	1	216	ALA	C-O	-8.37	1.13	1.24
3	7	254	SER	C-O	-8.37	1.13	1.24
2	B	148	LYS	CG-CD	-8.36	1.27	1.52
2	X	148	LYS	CG-CD	-8.36	1.27	1.52
3	7	502	LEU	CG-CD1	-8.36	1.25	1.52
3	F	173	THR	C-O	-8.36	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	216	ALA	C-O	-8.36	1.13	1.24
2	0	148	LYS	CG-CD	-8.36	1.27	1.52
3	7	173	THR	C-O	-8.36	1.13	1.23
3	L	294	SER	C-N	-8.36	1.16	1.33
2	E	148	LYS	CG-CD	-8.35	1.27	1.52
3	I	302	SER	CA-CB	-8.35	1.39	1.53
3	R	173	THR	C-O	-8.35	1.13	1.23
3	Y	173	THR	C-O	-8.35	1.13	1.23
3	V	173	THR	C-O	-8.34	1.13	1.23
2	6	148	LYS	CG-CD	-8.34	1.27	1.52
3	1	173	THR	C-O	-8.34	1.13	1.23
3	U	302	SER	CA-CB	-8.34	1.39	1.53
3	C	173	THR	C-O	-8.34	1.13	1.23
3	4	173	THR	C-O	-8.34	1.13	1.23
3	U	475	PRO	CB-CG	-8.34	1.18	1.51
3	L	302	SER	CA-CB	-8.33	1.39	1.53
3	V	502	LEU	CG-CD1	-8.33	1.25	1.52
3	U	502	LEU	CG-CD1	-8.33	1.25	1.52
3	C	502	LEU	CG-CD1	-8.33	1.25	1.52
3	O	173	THR	C-O	-8.33	1.13	1.23
3	1	502	LEU	CG-CD1	-8.33	1.25	1.52
3	L	502	LEU	CG-CD1	-8.33	1.25	1.52
3	R	502	LEU	CG-CD1	-8.33	1.25	1.52
3	4	502	LEU	CG-CD1	-8.33	1.25	1.52
3	I	254	SER	C-O	-8.33	1.13	1.24
3	O	475	PRO	CB-CG	-8.33	1.18	1.51
3	O	502	LEU	CG-CD1	-8.33	1.25	1.52
3	R	496	PHE	CE2-CZ	-8.33	1.13	1.38
3	Y	502	LEU	CG-CD1	-8.33	1.25	1.52
3	7	302	SER	CA-CB	-8.33	1.39	1.53
3	4	475	PRO	CB-CG	-8.32	1.18	1.51
3	F	475	PRO	CB-CG	-8.32	1.18	1.51
3	L	475	PRO	CB-CG	-8.32	1.18	1.51
3	R	302	SER	CA-CB	-8.32	1.39	1.53
3	C	496	PHE	CE2-CZ	-8.32	1.13	1.38
3	I	496	PHE	CE2-CZ	-8.32	1.13	1.38
3	L	173	THR	C-O	-8.32	1.13	1.23
3	O	254	SER	C-O	-8.32	1.13	1.24
3	Y	254	SER	C-O	-8.32	1.13	1.24
3	V	496	PHE	CE2-CZ	-8.32	1.13	1.38
3	Y	302	SER	CA-CB	-8.32	1.39	1.53
3	F	496	PHE	CE2-CZ	-8.32	1.13	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	302	SER	CA-CB	-8.32	1.39	1.53
3	O	496	PHE	CE2-CZ	-8.32	1.13	1.38
3	C	302	SER	CA-CB	-8.32	1.39	1.53
3	1	205	TYR	C-O	-8.32	1.14	1.24
3	4	496	PHE	CE2-CZ	-8.32	1.13	1.38
3	L	496	PHE	CE2-CZ	-8.31	1.13	1.38
3	V	475	PRO	CB-CG	-8.31	1.18	1.51
3	7	496	PHE	CE2-CZ	-8.31	1.13	1.38
3	F	502	LEU	CG-CD1	-8.31	1.25	1.52
3	U	496	PHE	CE2-CZ	-8.31	1.13	1.38
3	4	302	SER	CA-CB	-8.31	1.39	1.53
3	C	475	PRO	CB-CG	-8.31	1.18	1.51
3	R	475	PRO	CB-CG	-8.31	1.18	1.51
3	I	502	LEU	CG-CD1	-8.31	1.25	1.52
3	1	496	PHE	CE2-CZ	-8.31	1.13	1.38
3	Y	496	PHE	CE2-CZ	-8.30	1.13	1.38
3	1	475	PRO	CB-CG	-8.30	1.18	1.51
3	7	475	PRO	CB-CG	-8.30	1.18	1.51
3	Y	475	PRO	CB-CG	-8.30	1.18	1.51
3	I	173	THR	C-O	-8.29	1.13	1.23
3	I	475	PRO	CB-CG	-8.29	1.18	1.51
3	F	146	GLN	CD-NE2	-8.28	1.15	1.33
3	7	205	TYR	C-O	-8.28	1.14	1.24
3	L	146	GLN	CD-NE2	-8.27	1.15	1.33
3	R	146	GLN	CD-NE2	-8.27	1.15	1.33
3	V	146	GLN	CD-NE2	-8.27	1.15	1.33
3	1	146	GLN	CD-NE2	-8.27	1.15	1.33
3	U	173	THR	C-O	-8.27	1.13	1.23
3	I	146	GLN	CD-NE2	-8.26	1.15	1.33
3	L	205	TYR	C-O	-8.26	1.14	1.24
3	1	302	SER	CA-CB	-8.26	1.39	1.53
3	I	156	VAL	C-N	-8.26	1.20	1.33
3	U	156	VAL	C-N	-8.26	1.20	1.33
3	I	205	TYR	C-O	-8.25	1.14	1.24
3	7	146	GLN	CD-NE2	-8.25	1.16	1.33
3	C	146	GLN	CD-NE2	-8.25	1.16	1.33
3	Y	146	GLN	CD-NE2	-8.25	1.16	1.33
3	V	156	VAL	C-N	-8.25	1.20	1.33
3	4	205	TYR	C-O	-8.24	1.14	1.24
3	O	146	GLN	CD-NE2	-8.24	1.16	1.33
3	4	146	GLN	CD-NE2	-8.24	1.16	1.33
3	1	156	VAL	C-N	-8.24	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	146	GLN	CD-NE2	-8.24	1.16	1.33
3	O	156	VAL	C-N	-8.23	1.20	1.33
3	R	205	TYR	C-O	-8.23	1.14	1.24
3	L	156	VAL	C-N	-8.22	1.20	1.33
3	7	156	VAL	C-N	-8.22	1.20	1.33
3	C	205	TYR	C-O	-8.22	1.15	1.24
3	C	156	VAL	C-N	-8.21	1.20	1.33
2	E	73	HIS	CE1-NE2	-8.21	1.24	1.32
3	R	156	VAL	C-N	-8.21	1.20	1.33
3	U	205	TYR	C-O	-8.21	1.15	1.24
3	F	205	TYR	C-O	-8.20	1.15	1.24
3	4	156	VAL	C-N	-8.19	1.20	1.33
3	V	205	TYR	C-O	-8.19	1.15	1.24
3	Y	156	VAL	C-N	-8.19	1.20	1.33
3	F	156	VAL	C-N	-8.19	1.20	1.33
3	O	205	TYR	C-O	-8.18	1.15	1.24
3	Y	205	TYR	C-O	-8.15	1.15	1.24
3	R	486	GLY	N-CA	-8.15	1.33	1.45
2	6	73	HIS	CE1-NE2	-8.14	1.24	1.32
2	H	73	HIS	CE1-NE2	-8.13	1.24	1.32
2	X	73	HIS	CE1-NE2	-8.12	1.24	1.32
3	Y	486	GLY	N-CA	-8.12	1.33	1.45
3	4	209	PRO	CG-CD	-8.12	1.23	1.50
3	7	486	GLY	N-CA	-8.12	1.33	1.45
3	C	486	GLY	N-CA	-8.12	1.33	1.45
3	L	209	PRO	CG-CD	-8.12	1.23	1.50
2	N	91	TYR	CE2-CZ	-8.12	1.18	1.38
3	1	486	GLY	N-CA	-8.11	1.33	1.45
3	U	209	PRO	CG-CD	-8.11	1.23	1.50
3	V	209	PRO	CG-CD	-8.11	1.23	1.50
3	V	486	GLY	N-CA	-8.11	1.33	1.45
3	I	486	GLY	N-CA	-8.11	1.33	1.45
2	B	73	HIS	CE1-NE2	-8.11	1.24	1.32
3	C	209	PRO	CG-CD	-8.11	1.23	1.50
3	I	209	PRO	CG-CD	-8.10	1.23	1.50
3	L	486	GLY	N-CA	-8.10	1.33	1.45
3	1	209	PRO	CG-CD	-8.10	1.23	1.50
2	9	73	HIS	CE1-NE2	-8.10	1.24	1.32
3	Y	209	PRO	CG-CD	-8.10	1.23	1.50
3	O	486	GLY	N-CA	-8.10	1.33	1.45
3	4	486	GLY	N-CA	-8.10	1.33	1.45
2	E	91	TYR	CE2-CZ	-8.09	1.18	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	209	PRO	CG-CD	-8.09	1.23	1.50
2	Q	73	HIS	CE1-NE2	-8.09	1.24	1.32
3	O	209	PRO	CG-CD	-8.09	1.23	1.50
2	3	73	HIS	CE1-NE2	-8.09	1.24	1.32
2	K	91	TYR	CE2-CZ	-8.09	1.18	1.38
2	N	73	HIS	CE1-NE2	-8.09	1.24	1.32
2	0	73	HIS	CE1-NE2	-8.09	1.24	1.32
2	Q	91	TYR	CE2-CZ	-8.09	1.18	1.38
2	T	73	HIS	CE1-NE2	-8.09	1.24	1.32
2	3	91	TYR	CE2-CZ	-8.09	1.18	1.38
2	6	91	TYR	CE2-CZ	-8.09	1.18	1.38
3	V	199	LEU	C-N	-8.08	1.14	1.34
2	0	91	TYR	CE2-CZ	-8.08	1.18	1.38
3	F	486	GLY	N-CA	-8.08	1.33	1.45
3	7	209	PRO	CG-CD	-8.08	1.23	1.50
2	B	91	TYR	CE2-CZ	-8.08	1.18	1.38
3	R	209	PRO	CG-CD	-8.08	1.23	1.50
2	T	91	TYR	CE2-CZ	-8.08	1.18	1.38
2	H	91	TYR	CE2-CZ	-8.07	1.18	1.38
2	9	91	TYR	CE2-CZ	-8.07	1.18	1.38
3	U	486	GLY	N-CA	-8.07	1.33	1.45
3	R	199	LEU	C-N	-8.07	1.14	1.34
3	U	199	LEU	C-N	-8.06	1.14	1.34
3	L	199	LEU	C-N	-8.06	1.14	1.34
3	O	199	LEU	C-N	-8.05	1.14	1.34
3	F	199	LEU	C-N	-8.05	1.14	1.34
2	K	73	HIS	CE1-NE2	-8.05	1.24	1.32
2	X	91	TYR	CE2-CZ	-8.05	1.19	1.38
3	1	199	LEU	C-N	-8.05	1.14	1.34
3	C	199	LEU	C-N	-8.04	1.14	1.34
3	7	199	LEU	C-N	-8.04	1.14	1.34
3	4	199	LEU	C-N	-8.04	1.14	1.34
3	I	199	LEU	C-N	-8.03	1.14	1.34
3	Y	199	LEU	C-N	-8.03	1.14	1.34
3	R	527	LYS	CB-CG	-8.03	1.28	1.52
3	1	527	LYS	CB-CG	-8.02	1.28	1.52
3	Y	527	LYS	CB-CG	-8.02	1.28	1.52
3	F	527	LYS	CB-CG	-8.01	1.28	1.52
3	C	527	LYS	CB-CG	-8.01	1.28	1.52
3	V	527	LYS	CB-CG	-8.00	1.28	1.52
3	I	527	LYS	CB-CG	-8.00	1.28	1.52
3	L	527	LYS	CB-CG	-8.00	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	527	LYS	CB-CG	-8.00	1.28	1.52
3	4	527	LYS	CB-CG	-8.00	1.28	1.52
3	7	527	LYS	CB-CG	-8.00	1.28	1.52
3	V	32	ILE	CB-CG2	-8.00	1.26	1.52
3	Y	414	ILE	CB-CG2	-7.99	1.26	1.52
3	V	414	ILE	CB-CG2	-7.99	1.26	1.52
3	F	414	ILE	CB-CG2	-7.99	1.26	1.52
3	R	414	ILE	CB-CG2	-7.98	1.26	1.52
3	4	414	ILE	CB-CG2	-7.98	1.26	1.52
3	L	32	ILE	CB-CG2	-7.98	1.26	1.52
3	O	414	ILE	CB-CG2	-7.98	1.26	1.52
3	O	527	LYS	CB-CG	-7.98	1.28	1.52
3	L	414	ILE	CB-CG2	-7.98	1.26	1.52
3	I	32	ILE	CB-CG2	-7.98	1.26	1.52
3	C	179	PRO	C-O	-7.97	1.13	1.24
3	C	414	ILE	CB-CG2	-7.97	1.26	1.52
3	U	32	ILE	CB-CG2	-7.97	1.26	1.52
3	C	32	ILE	CB-CG2	-7.97	1.26	1.52
3	4	32	ILE	CB-CG2	-7.97	1.26	1.52
3	R	32	ILE	CB-CG2	-7.96	1.26	1.52
3	7	414	ILE	CB-CG2	-7.96	1.26	1.52
3	1	414	ILE	CB-CG2	-7.96	1.26	1.52
3	7	32	ILE	CB-CG2	-7.96	1.26	1.52
3	O	32	ILE	CB-CG2	-7.96	1.26	1.52
3	U	414	ILE	CB-CG2	-7.95	1.26	1.52
3	I	414	ILE	CB-CG2	-7.95	1.26	1.52
3	Y	32	ILE	CB-CG2	-7.95	1.26	1.52
3	1	32	ILE	CB-CG2	-7.95	1.26	1.52
3	F	32	ILE	CB-CG2	-7.94	1.26	1.52
3	U	188	SER	CB-OG	-7.93	1.26	1.42
3	R	188	SER	CB-OG	-7.93	1.26	1.42
3	I	188	SER	CB-OG	-7.93	1.26	1.42
1	M	14	TYR	CZ-OH	-7.93	1.21	1.38
3	O	188	SER	CB-OG	-7.92	1.26	1.42
3	F	188	SER	CB-OG	-7.92	1.26	1.42
3	1	188	SER	CB-OG	-7.92	1.26	1.42
3	7	188	SER	CB-OG	-7.91	1.26	1.42
3	C	188	SER	CB-OG	-7.90	1.26	1.42
1	2	14	TYR	CZ-OH	-7.90	1.21	1.38
3	L	188	SER	CB-OG	-7.90	1.26	1.42
3	V	188	SER	CB-OG	-7.90	1.26	1.42
1	W	14	TYR	CZ-OH	-7.90	1.21	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	14	TYR	CZ-OH	-7.90	1.21	1.38
1	G	14	TYR	CZ-OH	-7.89	1.21	1.38
3	Y	188	SER	CB-OG	-7.89	1.26	1.42
1	Z	14	TYR	CZ-OH	-7.89	1.21	1.38
1	J	14	TYR	CZ-OH	-7.89	1.21	1.38
1	S	14	TYR	CZ-OH	-7.89	1.21	1.38
1	A	14	TYR	CZ-OH	-7.88	1.21	1.38
1	8	14	TYR	CZ-OH	-7.88	1.21	1.38
2	E	58	VAL	CB-CG2	-7.88	1.26	1.52
1	P	14	TYR	CZ-OH	-7.88	1.21	1.38
3	4	188	SER	CB-OG	-7.88	1.26	1.42
2	N	58	VAL	CB-CG2	-7.87	1.26	1.52
2	0	58	VAL	CB-CG2	-7.86	1.26	1.52
2	3	58	VAL	CB-CG2	-7.86	1.26	1.52
3	7	420	GLN	CB-CG	-7.86	1.28	1.52
2	B	58	VAL	CB-CG2	-7.85	1.26	1.52
2	6	58	VAL	CB-CG2	-7.85	1.26	1.52
2	K	58	VAL	CB-CG2	-7.85	1.26	1.52
3	V	420	GLN	CB-CG	-7.85	1.28	1.52
3	4	420	GLN	CB-CG	-7.85	1.28	1.52
3	U	420	GLN	CB-CG	-7.85	1.28	1.52
3	O	420	GLN	CB-CG	-7.84	1.28	1.52
2	Q	148	LYS	CE-NZ	-7.84	1.25	1.49
3	R	420	GLN	CB-CG	-7.84	1.28	1.52
3	I	420	GLN	CB-CG	-7.84	1.28	1.52
2	Q	58	VAL	CB-CG2	-7.84	1.26	1.52
2	X	58	VAL	CB-CG2	-7.84	1.26	1.52
3	C	420	GLN	CB-CG	-7.84	1.28	1.52
2	T	58	VAL	CB-CG2	-7.84	1.26	1.52
1	5	14	TYR	CZ-OH	-7.84	1.21	1.38
2	H	58	VAL	CB-CG2	-7.84	1.26	1.52
3	F	420	GLN	CB-CG	-7.83	1.28	1.52
3	L	420	GLN	CB-CG	-7.83	1.28	1.52
3	Y	420	GLN	CB-CG	-7.83	1.28	1.52
2	B	148	LYS	CE-NZ	-7.83	1.25	1.49
2	E	148	LYS	CE-NZ	-7.83	1.25	1.49
2	X	148	LYS	CE-NZ	-7.83	1.25	1.49
2	6	148	LYS	CE-NZ	-7.83	1.25	1.49
2	9	58	VAL	CB-CG2	-7.83	1.26	1.52
2	9	148	LYS	CE-NZ	-7.83	1.25	1.49
3	7	381	GLN	CD-NE2	-7.82	1.16	1.33
2	3	148	LYS	CE-NZ	-7.82	1.25	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	148	LYS	CE-NZ	-7.82	1.25	1.49
2	H	148	LYS	CE-NZ	-7.82	1.25	1.49
3	1	420	GLN	CB-CG	-7.82	1.29	1.52
2	K	148	LYS	CE-NZ	-7.81	1.25	1.49
2	T	148	LYS	CE-NZ	-7.81	1.25	1.49
2	0	148	LYS	CE-NZ	-7.81	1.25	1.49
3	V	381	GLN	CD-NE2	-7.81	1.16	1.33
3	L	381	GLN	CD-NE2	-7.80	1.16	1.33
3	C	381	GLN	CD-NE2	-7.79	1.16	1.33
3	Y	381	GLN	CD-NE2	-7.79	1.17	1.33
3	O	228	GLY	C-O	-7.78	1.13	1.23
3	R	381	GLN	CD-NE2	-7.78	1.17	1.33
3	U	381	GLN	CD-NE2	-7.78	1.17	1.33
3	4	381	GLN	CD-NE2	-7.78	1.17	1.33
3	1	381	GLN	CD-NE2	-7.78	1.17	1.33
3	I	381	GLN	CD-NE2	-7.77	1.17	1.33
3	U	228	GLY	C-O	-7.77	1.13	1.23
3	F	381	GLN	CD-NE2	-7.75	1.17	1.33
3	R	228	GLY	C-O	-7.75	1.13	1.23
3	O	381	GLN	CD-NE2	-7.75	1.17	1.33
3	Y	228	GLY	C-O	-7.75	1.13	1.23
3	4	425	VAL	CB-CG2	-7.75	1.26	1.52
3	I	425	VAL	CB-CG2	-7.75	1.26	1.52
3	O	425	VAL	CB-CG2	-7.74	1.26	1.52
3	1	228	GLY	C-O	-7.73	1.13	1.23
3	4	228	GLY	C-O	-7.73	1.13	1.23
3	L	40	GLY	C-O	-7.73	1.13	1.24
3	I	228	GLY	C-O	-7.73	1.13	1.23
3	L	228	GLY	C-O	-7.73	1.13	1.23
3	Y	425	VAL	CB-CG2	-7.73	1.27	1.52
3	F	425	VAL	CB-CG2	-7.73	1.27	1.52
3	V	40	GLY	C-O	-7.73	1.13	1.24
3	V	228	GLY	C-O	-7.73	1.13	1.23
3	1	425	VAL	CB-CG2	-7.73	1.27	1.52
3	C	425	VAL	CB-CG2	-7.72	1.27	1.52
3	L	425	VAL	CB-CG2	-7.72	1.27	1.52
3	O	40	GLY	C-O	-7.72	1.13	1.24
3	R	425	VAL	CB-CG2	-7.72	1.27	1.52
3	V	425	VAL	CB-CG2	-7.72	1.27	1.52
3	R	40	GLY	C-O	-7.72	1.13	1.24
3	U	425	VAL	CB-CG2	-7.72	1.27	1.52
3	C	40	GLY	C-O	-7.71	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	228	GLY	C-O	-7.71	1.13	1.23
3	F	40	GLY	C-O	-7.71	1.13	1.24
3	Y	40	GLY	C-O	-7.71	1.13	1.24
3	I	40	GLY	C-O	-7.70	1.13	1.24
3	7	425	VAL	CB-CG2	-7.69	1.27	1.52
3	F	228	GLY	C-O	-7.69	1.13	1.23
3	4	40	GLY	C-O	-7.69	1.13	1.24
3	R	435[A]	ALA	C-O	-7.68	1.15	1.23
3	R	435[B]	ALA	C-O	-7.68	1.15	1.23
3	1	40	GLY	C-O	-7.68	1.13	1.24
3	R	523	ARG	CZ-NH2	-7.67	1.23	1.33
3	7	228	GLY	C-O	-7.67	1.13	1.23
3	4	435[A]	ALA	C-O	-7.66	1.15	1.23
3	4	435[B]	ALA	C-O	-7.66	1.15	1.23
3	7	40	GLY	C-O	-7.66	1.13	1.24
3	1	444	PHE	CD1-CE1	-7.65	1.15	1.38
3	F	523	ARG	CZ-NH2	-7.65	1.23	1.33
3	U	40	GLY	C-O	-7.65	1.13	1.24
1	D	23	ARG	CZ-NH2	-7.65	1.23	1.33
3	4	444	PHE	CD1-CE1	-7.65	1.15	1.38
3	U	523	ARG	CZ-NH2	-7.65	1.23	1.33
3	I	435[A]	ALA	C-O	-7.64	1.15	1.23
3	I	435[B]	ALA	C-O	-7.64	1.15	1.23
1	J	23	ARG	CZ-NH2	-7.64	1.23	1.33
3	U	444	PHE	CD1-CE1	-7.64	1.15	1.38
3	7	444	PHE	CD1-CE1	-7.64	1.15	1.38
3	F	435[A]	ALA	C-O	-7.64	1.15	1.23
3	F	435[B]	ALA	C-O	-7.64	1.15	1.23
3	V	435[A]	ALA	C-O	-7.64	1.15	1.23
3	V	435[B]	ALA	C-O	-7.64	1.15	1.23
3	1	43	SER	CB-OG	-7.64	1.26	1.42
3	R	444	PHE	CD1-CE1	-7.63	1.15	1.38
3	V	444	PHE	CD1-CE1	-7.63	1.15	1.38
3	I	444	PHE	CD1-CE1	-7.63	1.15	1.38
3	Y	444	PHE	CD1-CE1	-7.63	1.15	1.38
3	F	444	PHE	CD1-CE1	-7.63	1.15	1.38
3	L	523	ARG	CZ-NH2	-7.63	1.23	1.33
3	V	274	HIS	C-N	-7.63	1.20	1.33
1	W	23	ARG	CZ-NH2	-7.63	1.23	1.33
3	O	444	PHE	CD1-CE1	-7.63	1.15	1.38
1	5	23	ARG	CZ-NH2	-7.63	1.23	1.33
3	C	444	PHE	CD1-CE1	-7.62	1.15	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	444	PHE	CD1-CE1	-7.62	1.15	1.38
3	I	376	TRP	CD1-NE1	-7.62	1.21	1.37
3	7	523	ARG	CZ-NH2	-7.62	1.23	1.33
3	C	523	ARG	CZ-NH2	-7.62	1.23	1.33
1	S	26	ARG	CB-CG	-7.62	1.29	1.52
3	1	85	ILE	C-O	-7.62	1.15	1.23
3	F	376	TRP	CD1-NE1	-7.62	1.21	1.37
3	O	435[A]	ALA	C-O	-7.61	1.15	1.23
3	O	435[B]	ALA	C-O	-7.61	1.15	1.23
3	R	274	HIS	C-N	-7.61	1.20	1.33
1	S	23	ARG	CZ-NH2	-7.61	1.23	1.33
3	V	43	SER	CB-OG	-7.61	1.26	1.42
3	1	523	ARG	CZ-NH2	-7.61	1.23	1.33
3	7	435[A]	ALA	C-O	-7.61	1.15	1.23
3	7	435[B]	ALA	C-O	-7.61	1.15	1.23
3	C	435[A]	ALA	C-O	-7.61	1.15	1.23
3	C	435[B]	ALA	C-O	-7.61	1.15	1.23
2	H	117	PRO	CG-CD	-7.61	1.24	1.50
3	L	43	SER	CB-OG	-7.61	1.26	1.42
3	O	85	ILE	C-O	-7.61	1.15	1.23
3	1	435[A]	ALA	C-O	-7.61	1.15	1.23
3	1	435[B]	ALA	C-O	-7.61	1.15	1.23
1	8	23	ARG	CZ-NH2	-7.61	1.23	1.33
1	8	26	ARG	CB-CG	-7.61	1.29	1.52
3	O	43	SER	CB-OG	-7.61	1.26	1.42
3	O	523	ARG	CZ-NH2	-7.61	1.23	1.33
1	P	23	ARG	CZ-NH2	-7.61	1.23	1.33
3	I	274	HIS	C-N	-7.60	1.21	1.33
3	L	376	TRP	CD1-NE1	-7.60	1.21	1.37
1	2	26	ARG	CB-CG	-7.60	1.29	1.52
3	R	376	TRP	CD1-NE1	-7.60	1.21	1.37
3	I	43	SER	CB-OG	-7.60	1.26	1.42
1	M	26	ARG	CB-CG	-7.60	1.29	1.52
3	U	435[A]	ALA	C-O	-7.60	1.15	1.23
3	U	435[B]	ALA	C-O	-7.60	1.15	1.23
1	A	23	ARG	CZ-NH2	-7.60	1.23	1.33
3	R	43	SER	CB-OG	-7.60	1.26	1.42
3	C	43	SER	CB-OG	-7.60	1.26	1.42
1	2	23	ARG	CZ-NH2	-7.60	1.23	1.33
3	V	523	ARG	CZ-NH2	-7.59	1.23	1.33
3	L	435[A]	ALA	C-O	-7.59	1.15	1.23
3	L	435[B]	ALA	C-O	-7.59	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	376	TRP	CD1-NE1	-7.59	1.22	1.37
2	E	117	PRO	CG-CD	-7.59	1.25	1.50
1	A	26	ARG	CB-CG	-7.59	1.29	1.52
1	D	26	ARG	CB-CG	-7.59	1.29	1.52
3	R	85	ILE	C-O	-7.59	1.15	1.23
2	T	117	PRO	CG-CD	-7.59	1.25	1.50
3	Y	523	ARG	CZ-NH2	-7.59	1.23	1.33
1	Z	26	ARG	CB-CG	-7.59	1.29	1.52
3	7	274	HIS	C-N	-7.59	1.21	1.33
2	N	117	PRO	CG-CD	-7.59	1.25	1.50
1	J	26	ARG	CB-CG	-7.59	1.29	1.52
3	O	274	HIS	C-N	-7.59	1.21	1.33
3	4	43	SER	CB-OG	-7.59	1.26	1.42
3	4	376	TRP	CD1-NE1	-7.59	1.22	1.37
2	9	117	PRO	CG-CD	-7.59	1.25	1.50
1	G	23	ARG	CZ-NH2	-7.58	1.23	1.33
3	U	274	HIS	C-N	-7.58	1.21	1.33
3	C	376	TRP	CD1-NE1	-7.58	1.22	1.37
3	C	274	HIS	C-N	-7.58	1.21	1.33
1	P	26	ARG	CB-CG	-7.58	1.29	1.52
3	F	43	SER	CB-OG	-7.58	1.26	1.42
3	L	274	HIS	C-N	-7.58	1.21	1.33
2	0	117	PRO	CG-CD	-7.58	1.25	1.50
1	5	26	ARG	CB-CG	-7.58	1.29	1.52
3	7	43	SER	CB-OG	-7.58	1.26	1.42
2	B	117	PRO	CG-CD	-7.58	1.25	1.50
3	O	376	TRP	CD1-NE1	-7.58	1.22	1.37
3	V	376	TRP	CD1-NE1	-7.58	1.22	1.37
3	U	376	TRP	CD1-NE1	-7.57	1.22	1.37
1	G	26	ARG	CB-CG	-7.57	1.29	1.52
1	W	26	ARG	CB-CG	-7.57	1.29	1.52
3	4	85	ILE	C-O	-7.57	1.15	1.23
2	Q	117	PRO	CG-CD	-7.57	1.25	1.50
2	3	117	PRO	CG-CD	-7.57	1.25	1.50
2	6	117	PRO	CG-CD	-7.57	1.25	1.50
3	U	43	SER	CB-OG	-7.57	1.27	1.42
1	M	23	ARG	CZ-NH2	-7.56	1.23	1.33
3	F	85	ILE	C-O	-7.56	1.15	1.23
3	Y	43	SER	CB-OG	-7.56	1.27	1.42
3	1	274	HIS	C-N	-7.56	1.21	1.33
3	Y	274	HIS	C-N	-7.56	1.21	1.33
3	Y	376	TRP	CD1-NE1	-7.56	1.22	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	376	TRP	CD1-NE1	-7.56	1.22	1.37
3	C	85	ILE	C-O	-7.56	1.15	1.23
3	4	274	HIS	C-N	-7.56	1.21	1.33
3	4	523	ARG	CZ-NH2	-7.56	1.23	1.33
2	X	117	PRO	CG-CD	-7.55	1.25	1.50
3	L	85	ILE	C-O	-7.55	1.15	1.23
3	Y	435[A]	ALA	C-O	-7.55	1.15	1.23
3	Y	435[B]	ALA	C-O	-7.55	1.15	1.23
2	K	117	PRO	CG-CD	-7.54	1.25	1.50
3	Y	85	ILE	C-O	-7.54	1.15	1.23
3	F	274	HIS	C-N	-7.54	1.21	1.33
1	Z	23	ARG	CZ-NH2	-7.54	1.23	1.33
3	I	85	ILE	C-O	-7.54	1.15	1.23
3	L	431	VAL	CB-CG1	-7.54	1.27	1.52
3	U	431	VAL	CB-CG1	-7.54	1.27	1.52
3	I	523	ARG	CZ-NH2	-7.54	1.23	1.33
3	7	431	VAL	CB-CG1	-7.54	1.27	1.52
3	Y	431	VAL	CB-CG1	-7.53	1.27	1.52
1	P	65	THR	CB-CG2	-7.53	1.27	1.52
1	M	65	THR	CB-CG2	-7.53	1.27	1.52
3	1	431	VAL	CB-CG1	-7.53	1.27	1.52
1	2	65	THR	CB-CG2	-7.53	1.27	1.52
1	5	65	THR	CB-CG2	-7.53	1.27	1.52
3	V	85	ILE	C-O	-7.52	1.15	1.23
3	V	431	VAL	CB-CG1	-7.52	1.27	1.52
3	C	431	VAL	CB-CG1	-7.52	1.27	1.52
1	A	65	THR	CB-CG2	-7.52	1.27	1.52
3	F	431	VAL	CB-CG1	-7.52	1.27	1.52
1	W	61	SER	C-O	-7.52	1.14	1.24
1	W	65	THR	CB-CG2	-7.52	1.27	1.52
1	Z	65	THR	CB-CG2	-7.52	1.27	1.52
2	6	158	ARG	CG-CD	-7.52	1.29	1.52
1	8	65	THR	CB-CG2	-7.52	1.27	1.52
3	U	85	ILE	C-O	-7.52	1.15	1.23
3	R	376	TRP	CG-CD1	-7.52	1.18	1.36
1	D	65	THR	CB-CG2	-7.51	1.27	1.52
3	O	431	VAL	CB-CG1	-7.51	1.27	1.52
3	7	376	TRP	CG-CD1	-7.51	1.18	1.36
3	4	431	VAL	CB-CG1	-7.51	1.27	1.52
3	O	376	TRP	CG-CD1	-7.51	1.18	1.36
3	1	376	TRP	CG-CD1	-7.51	1.18	1.36
1	S	65	THR	CB-CG2	-7.50	1.27	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	65	THR	CB-CG2	-7.50	1.27	1.52
3	I	431	VAL	CB-CG1	-7.50	1.27	1.52
1	J	65	THR	CB-CG2	-7.50	1.27	1.52
2	Q	158	ARG	CG-CD	-7.50	1.29	1.52
3	I	376	TRP	CE3-CZ3	-7.50	1.16	1.38
3	L	376	TRP	CE3-CZ3	-7.50	1.16	1.38
3	R	431	VAL	CB-CG1	-7.50	1.27	1.52
3	7	85	ILE	C-O	-7.50	1.15	1.23
3	F	376	TRP	CG-CD1	-7.49	1.18	1.36
2	H	158	ARG	CG-CD	-7.49	1.29	1.52
3	C	376	TRP	CG-CD1	-7.49	1.18	1.36
3	L	376	TRP	CG-CD1	-7.49	1.18	1.36
3	Y	376	TRP	CG-CD1	-7.49	1.18	1.36
3	O	376	TRP	CE3-CZ3	-7.49	1.16	1.38
2	N	158	ARG	CG-CD	-7.48	1.29	1.52
1	G	70	MET	SD-CE	-7.48	1.60	1.79
3	1	376	TRP	CE3-CZ3	-7.48	1.16	1.38
3	7	376	TRP	CE3-CZ3	-7.48	1.16	1.38
1	8	70	MET	SD-CE	-7.48	1.60	1.79
3	U	376	TRP	CE3-CZ3	-7.48	1.16	1.38
3	V	376	TRP	CG-CD1	-7.48	1.18	1.36
1	Z	61	SER	C-O	-7.48	1.14	1.24
2	3	158	ARG	CG-CD	-7.48	1.30	1.52
3	4	376	TRP	CG-CD1	-7.48	1.18	1.36
3	4	478	TYR	CD2-CE2	-7.48	1.16	1.38
2	B	158	ARG	CG-CD	-7.48	1.30	1.52
3	I	376	TRP	CG-CD1	-7.48	1.18	1.36
3	O	480	PRO	C-N	-7.48	1.22	1.33
3	V	376	TRP	CE3-CZ3	-7.48	1.16	1.38
2	X	158	ARG	CG-CD	-7.48	1.30	1.52
1	5	61	SER	C-O	-7.48	1.14	1.24
3	Y	480	PRO	C-N	-7.47	1.22	1.33
3	C	376	TRP	CE3-CZ3	-7.47	1.16	1.38
3	F	376	TRP	CD2-CE3	-7.47	1.28	1.40
1	S	70	MET	SD-CE	-7.47	1.60	1.79
3	4	376	TRP	CE3-CZ3	-7.47	1.16	1.38
3	U	478	TYR	CD2-CE2	-7.47	1.16	1.38
3	4	479	ARG	CB-CG	-7.47	1.30	1.52
2	E	158	ARG	CG-CD	-7.47	1.30	1.52
1	G	61	SER	C-O	-7.47	1.14	1.24
2	K	158	ARG	CG-CD	-7.47	1.30	1.52
1	P	61	SER	C-O	-7.47	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	158	ARG	CG-CD	-7.47	1.30	1.52
1	W	70	MET	SD-CE	-7.47	1.60	1.79
3	Y	376	TRP	CE3-CZ3	-7.47	1.16	1.38
2	0	158	ARG	CG-CD	-7.47	1.30	1.52
3	F	376	TRP	CE3-CZ3	-7.46	1.16	1.38
3	L	479	ARG	CB-CG	-7.46	1.30	1.52
1	M	61	SER	C-O	-7.46	1.14	1.24
1	M	70	MET	SD-CE	-7.46	1.60	1.79
3	O	478	TYR	CD2-CE2	-7.46	1.16	1.38
3	1	478	TYR	CD2-CE2	-7.46	1.16	1.38
3	U	376	TRP	CG-CD1	-7.46	1.18	1.36
3	R	478	TYR	CD2-CE2	-7.46	1.16	1.38
1	S	61	SER	C-O	-7.46	1.14	1.24
2	T	93	LYS	CG-CD	-7.46	1.30	1.52
3	V	478	TYR	CD2-CE2	-7.46	1.16	1.38
3	R	480	PRO	C-N	-7.46	1.22	1.33
1	2	70	MET	SD-CE	-7.46	1.60	1.79
1	8	61	SER	C-O	-7.46	1.14	1.24
2	9	158	ARG	CG-CD	-7.46	1.30	1.52
1	A	61	SER	C-O	-7.46	1.14	1.24
3	4	480	PRO	C-N	-7.46	1.22	1.33
2	6	93	LYS	CG-CD	-7.46	1.30	1.52
3	R	376	TRP	CE3-CZ3	-7.46	1.16	1.38
1	2	41	VAL	CB-CG1	-7.45	1.27	1.52
3	I	445	PHE	CD1-CE1	-7.45	1.16	1.38
3	I	479	ARG	CB-CG	-7.45	1.30	1.52
3	C	478	TYR	CD2-CE2	-7.45	1.16	1.38
1	D	41	VAL	CB-CG1	-7.45	1.27	1.52
1	D	70	MET	SD-CE	-7.45	1.60	1.79
3	F	479	ARG	CB-CG	-7.45	1.30	1.52
1	Z	70	MET	SD-CE	-7.45	1.60	1.79
3	C	480	PRO	C-N	-7.45	1.22	1.33
2	9	93	LYS	CG-CD	-7.45	1.30	1.52
1	A	70	MET	SD-CE	-7.45	1.60	1.79
3	L	478	TYR	CD2-CE2	-7.45	1.16	1.38
3	L	480	PRO	C-N	-7.45	1.22	1.33
3	Y	479	ARG	CB-CG	-7.45	1.30	1.52
3	1	480	PRO	C-N	-7.45	1.22	1.33
3	U	445	PHE	CD1-CE1	-7.45	1.16	1.38
3	C	479	ARG	CB-CG	-7.44	1.30	1.52
2	N	93	LYS	CG-CD	-7.44	1.30	1.52
3	Y	478	TYR	CD2-CE2	-7.44	1.16	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	376	TRP	CD2-CE3	-7.44	1.28	1.40
2	B	93	LYS	CG-CD	-7.44	1.30	1.52
3	O	479	ARG	CB-CG	-7.44	1.30	1.52
3	R	479	ARG	CB-CG	-7.44	1.30	1.52
3	1	479	ARG	CB-CG	-7.44	1.30	1.52
3	I	480	PRO	C-N	-7.44	1.22	1.33
2	0	93	LYS	CG-CD	-7.44	1.30	1.52
1	J	70	MET	SD-CE	-7.44	1.60	1.79
3	U	479	ARG	CB-CG	-7.44	1.30	1.52
1	A	41	VAL	CB-CG1	-7.44	1.28	1.52
1	2	61	SER	C-O	-7.44	1.14	1.24
3	7	478	TYR	CD2-CE2	-7.44	1.16	1.38
1	8	41	VAL	CB-CG1	-7.44	1.28	1.52
3	U	480	PRO	C-N	-7.44	1.22	1.33
1	M	41	VAL	CB-CG1	-7.43	1.28	1.52
3	1	445	PHE	CD1-CE1	-7.43	1.16	1.38
1	5	70	MET	SD-CE	-7.43	1.60	1.79
2	K	93	LYS	CG-CD	-7.43	1.30	1.52
3	L	445	PHE	CD1-CE1	-7.43	1.16	1.38
2	Q	93	LYS	CG-CD	-7.43	1.30	1.52
1	W	41	VAL	CB-CG1	-7.43	1.28	1.52
3	C	445	PHE	CD1-CE1	-7.43	1.16	1.38
2	H	93	LYS	CG-CD	-7.43	1.30	1.52
3	4	445	PHE	CD1-CE1	-7.43	1.16	1.38
1	G	41	VAL	CB-CG1	-7.43	1.28	1.52
3	I	478	TYR	CD2-CE2	-7.43	1.16	1.38
3	O	445	PHE	CD1-CE1	-7.43	1.16	1.38
3	7	29	PHE	C-N	-7.43	1.11	1.33
1	D	61	SER	C-O	-7.43	1.14	1.24
1	P	70	MET	SD-CE	-7.43	1.60	1.79
1	5	41	VAL	CB-CG1	-7.43	1.28	1.52
3	F	445	PHE	CD1-CE1	-7.43	1.16	1.38
1	P	41	VAL	CB-CG1	-7.43	1.28	1.52
3	R	445	PHE	CD1-CE1	-7.43	1.16	1.38
3	V	445	PHE	CD1-CE1	-7.43	1.16	1.38
3	V	479	ARG	CB-CG	-7.43	1.30	1.52
2	E	93	LYS	CG-CD	-7.42	1.30	1.52
3	F	478	TYR	CD2-CE2	-7.42	1.16	1.38
3	R	376	TRP	CD2-CE3	-7.42	1.28	1.40
1	S	41	VAL	CB-CG1	-7.42	1.28	1.52
2	X	93	LYS	CG-CD	-7.42	1.30	1.52
1	J	41	VAL	CB-CG1	-7.42	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	61	SER	C-O	-7.42	1.14	1.24
3	Y	445	PHE	CD1-CE1	-7.42	1.16	1.38
1	Z	41	VAL	CB-CG1	-7.42	1.28	1.52
3	7	479	ARG	CB-CG	-7.42	1.30	1.52
3	U	29	PHE	C-N	-7.42	1.11	1.33
3	C	376	TRP	CD2-CE3	-7.42	1.28	1.40
3	O	376	TRP	CD2-CE3	-7.42	1.28	1.40
2	3	93	LYS	CG-CD	-7.42	1.30	1.52
3	7	480	PRO	C-N	-7.42	1.22	1.33
3	V	376	TRP	CD2-CE3	-7.42	1.28	1.40
3	U	376	TRP	CD2-CE3	-7.42	1.28	1.40
3	F	29	PHE	C-N	-7.41	1.11	1.33
3	1	529	ASP	C-N	-7.41	1.23	1.33
3	I	529	ASP	C-N	-7.41	1.23	1.33
3	V	184	GLN	CB-CG	-7.41	1.30	1.52
3	V	480	PRO	C-N	-7.41	1.22	1.33
3	7	445	PHE	CD1-CE1	-7.41	1.16	1.38
3	F	480	PRO	C-N	-7.41	1.22	1.33
3	L	29	PHE	C-N	-7.41	1.11	1.33
3	R	29	PHE	C-N	-7.41	1.11	1.33
3	Y	184	GLN	CB-CG	-7.41	1.30	1.52
3	C	29	PHE	C-N	-7.41	1.11	1.33
3	I	29	PHE	C-N	-7.41	1.11	1.33
3	U	529	ASP	C-N	-7.41	1.23	1.33
3	L	376	TRP	CD2-CE3	-7.40	1.28	1.40
3	O	529	ASP	C-N	-7.40	1.23	1.33
3	4	184	GLN	CB-CG	-7.40	1.30	1.52
3	7	184	GLN	CB-CG	-7.40	1.30	1.52
3	Y	376	TRP	CD2-CE3	-7.40	1.28	1.40
3	1	29	PHE	C-N	-7.40	1.11	1.33
3	F	184	GLN	CB-CG	-7.39	1.30	1.52
3	F	529	ASP	C-N	-7.39	1.23	1.33
3	I	304	ASN	C-O	-7.39	1.14	1.24
3	O	29	PHE	C-N	-7.39	1.11	1.33
3	Y	29	PHE	C-N	-7.39	1.11	1.33
3	4	29	PHE	C-N	-7.39	1.11	1.33
3	V	529	ASP	C-N	-7.39	1.23	1.33
3	4	529	ASP	C-N	-7.39	1.23	1.33
3	L	184	GLN	CB-CG	-7.39	1.30	1.52
3	C	184	GLN	CB-CG	-7.38	1.30	1.52
3	R	184	GLN	CB-CG	-7.38	1.30	1.52
3	U	184	GLN	CB-CG	-7.38	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	184	GLN	CB-CG	-7.38	1.30	1.52
3	7	304	ASN	C-O	-7.38	1.14	1.24
3	7	376	TRP	CD2-CE3	-7.38	1.28	1.40
3	R	529	ASP	C-N	-7.38	1.23	1.33
3	V	29	PHE	C-N	-7.38	1.11	1.33
3	1	184	GLN	CB-CG	-7.37	1.30	1.52
3	Y	304	ASN	C-O	-7.37	1.14	1.24
3	C	529	ASP	C-N	-7.37	1.23	1.33
3	I	184	GLN	CB-CG	-7.37	1.30	1.52
3	V	304	ASN	C-O	-7.37	1.14	1.24
3	I	376	TRP	CD2-CE3	-7.36	1.28	1.40
3	4	376	TRP	CD2-CE3	-7.36	1.28	1.40
3	O	413	THR	CB-CG2	-7.36	1.28	1.52
3	L	529	ASP	C-N	-7.35	1.23	1.33
3	4	131	LEU	C-N	-7.35	1.22	1.33
3	F	304	ASN	C-O	-7.35	1.14	1.24
3	7	529	ASP	C-N	-7.35	1.23	1.33
3	U	413	THR	CB-CG2	-7.34	1.28	1.52
3	7	413	THR	CB-CG2	-7.34	1.28	1.52
3	Y	413	THR	CB-CG2	-7.34	1.28	1.52
3	I	413	THR	CB-CG2	-7.34	1.28	1.52
3	1	413	THR	CB-CG2	-7.34	1.28	1.52
3	U	131	LEU	C-N	-7.34	1.22	1.33
3	L	413	THR	CB-CG2	-7.34	1.28	1.52
3	R	304	ASN	C-O	-7.33	1.14	1.24
3	C	304	ASN	C-O	-7.33	1.14	1.24
3	C	413	THR	CB-CG2	-7.33	1.28	1.52
3	F	413	THR	CB-CG2	-7.33	1.28	1.52
3	L	304	ASN	C-O	-7.33	1.14	1.24
3	O	131	LEU	C-N	-7.33	1.22	1.33
3	4	304	ASN	C-O	-7.33	1.14	1.24
3	V	413	THR	CB-CG2	-7.33	1.28	1.52
3	4	413	THR	CB-CG2	-7.32	1.28	1.52
3	R	413	THR	CB-CG2	-7.32	1.28	1.52
3	I	131	LEU	C-N	-7.32	1.22	1.33
3	V	4	ILE	C-O	-7.32	1.16	1.24
3	Y	529	ASP	C-N	-7.32	1.23	1.33
3	F	131	LEU	C-N	-7.31	1.22	1.33
3	Y	131	LEU	C-N	-7.31	1.22	1.33
3	1	304	ASN	C-O	-7.31	1.14	1.24
3	V	131	LEU	C-N	-7.31	1.22	1.33
3	F	177	PRO	CB-CG	-7.31	1.13	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	304	ASN	C-O	-7.31	1.14	1.24
1	W	1	MET	CB-CG	-7.31	1.30	1.52
3	U	478	TYR	C-N	-7.31	1.23	1.33
1	S	1	MET	CB-CG	-7.30	1.30	1.52
3	7	478	TYR	C-N	-7.30	1.23	1.33
3	C	131	LEU	C-N	-7.30	1.22	1.33
3	L	131	LEU	C-N	-7.30	1.22	1.33
3	L	177	PRO	CB-CG	-7.30	1.13	1.49
1	P	1	MET	CB-CG	-7.30	1.30	1.52
3	Y	478	TYR	C-N	-7.29	1.23	1.33
3	I	177	PRO	CB-CG	-7.29	1.13	1.49
1	A	1	MET	CB-CG	-7.29	1.30	1.52
1	D	1	MET	CB-CG	-7.29	1.30	1.52
1	M	1	MET	CB-CG	-7.29	1.30	1.52
3	1	177	PRO	CB-CG	-7.29	1.13	1.49
1	2	1	MET	CB-CG	-7.29	1.30	1.52
1	8	1	MET	CB-CG	-7.29	1.30	1.52
3	U	304	ASN	C-O	-7.29	1.14	1.24
3	1	102	SER	CB-OG	-7.29	1.27	1.42
1	5	1	MET	CB-CG	-7.29	1.30	1.52
3	C	177	PRO	CB-CG	-7.29	1.13	1.49
3	I	4	ILE	C-O	-7.29	1.16	1.24
3	V	177	PRO	CB-CG	-7.29	1.13	1.49
3	Y	177	PRO	CB-CG	-7.29	1.13	1.49
3	7	131	LEU	C-N	-7.29	1.23	1.33
3	U	4	ILE	C-O	-7.29	1.16	1.24
3	U	102	SER	CB-OG	-7.29	1.27	1.42
3	L	4	ILE	C-O	-7.29	1.16	1.24
3	O	102	SER	CB-OG	-7.29	1.27	1.42
1	Z	1	MET	CB-CG	-7.28	1.30	1.52
3	R	177	PRO	CB-CG	-7.28	1.13	1.49
3	1	131	LEU	C-N	-7.28	1.23	1.33
3	4	177	PRO	CB-CG	-7.28	1.13	1.49
3	U	177	PRO	CB-CG	-7.28	1.13	1.49
3	L	478	TYR	C-N	-7.28	1.23	1.33
1	G	1	MET	CB-CG	-7.28	1.30	1.52
3	4	478	TYR	C-N	-7.28	1.23	1.33
3	7	177	PRO	CB-CG	-7.28	1.13	1.49
3	O	177	PRO	CB-CG	-7.28	1.13	1.49
3	F	102	SER	CB-OG	-7.27	1.27	1.42
3	R	131	LEU	C-N	-7.27	1.23	1.33
1	J	1	MET	CB-CG	-7.27	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	102	SER	CB-OG	-7.27	1.27	1.42
3	C	4	ILE	C-O	-7.26	1.16	1.24
3	I	102	SER	CB-OG	-7.26	1.27	1.42
3	R	102	SER	CB-OG	-7.26	1.27	1.42
3	7	102	SER	CB-OG	-7.26	1.27	1.42
3	C	102	SER	CB-OG	-7.25	1.27	1.42
3	7	4	ILE	C-O	-7.25	1.16	1.24
3	V	478	TYR	C-N	-7.25	1.23	1.33
3	C	478	TYR	C-N	-7.25	1.23	1.33
3	V	102	SER	CB-OG	-7.25	1.27	1.42
3	R	478	TYR	C-N	-7.25	1.23	1.33
3	V	253	ASP	C-O	-7.24	1.14	1.24
3	F	478	TYR	C-N	-7.24	1.23	1.33
3	O	478	TYR	C-N	-7.24	1.23	1.33
1	2	75	ASP	C-O	-7.24	1.14	1.24
3	I	423	SER	CB-OG	-7.24	1.27	1.42
3	O	4	ILE	C-O	-7.24	1.16	1.24
3	4	102	SER	CB-OG	-7.24	1.27	1.42
3	4	4	ILE	C-O	-7.23	1.16	1.24
3	L	102	SER	CB-OG	-7.23	1.27	1.42
3	L	183	ARG	CG-CD	-7.23	1.30	1.52
2	0	85	PHE	CD2-CE2	-7.23	1.17	1.38
3	I	478	TYR	C-N	-7.22	1.23	1.33
3	1	4	ILE	C-O	-7.22	1.17	1.24
3	1	478	TYR	C-N	-7.22	1.23	1.33
3	O	183	ARG	CG-CD	-7.22	1.30	1.52
3	R	4	ILE	C-O	-7.22	1.17	1.24
2	K	85	PHE	CD2-CE2	-7.21	1.17	1.38
3	R	423	SER	CB-OG	-7.21	1.27	1.42
3	V	423	SER	CB-OG	-7.21	1.27	1.42
3	1	423	SER	CB-OG	-7.21	1.27	1.42
3	F	183	ARG	CG-CD	-7.21	1.30	1.52
3	I	183	ARG	CG-CD	-7.21	1.30	1.52
3	Y	4	ILE	C-O	-7.21	1.17	1.24
2	6	85	PHE	CD2-CE2	-7.21	1.17	1.38
3	Y	183	ARG	CG-CD	-7.21	1.30	1.52
2	Q	85	PHE	CD2-CE2	-7.20	1.17	1.38
2	X	85	PHE	CD2-CE2	-7.20	1.17	1.38
3	7	423	SER	CB-OG	-7.20	1.27	1.42
3	C	183	ARG	CG-CD	-7.20	1.30	1.52
1	5	75	ASP	C-O	-7.20	1.14	1.24
2	B	85	PHE	CD2-CE2	-7.20	1.17	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	152	LEU	C-N	-7.20	1.23	1.33
3	O	423	SER	CB-OG	-7.20	1.27	1.42
1	Z	75	ASP	C-O	-7.20	1.14	1.24
3	4	183	ARG	CG-CD	-7.20	1.30	1.52
3	L	423	SER	CB-OG	-7.20	1.27	1.42
3	Y	423	SER	CB-OG	-7.20	1.27	1.42
3	1	183	ARG	CG-CD	-7.20	1.30	1.52
3	C	423	SER	CB-OG	-7.20	1.27	1.42
2	H	85	PHE	CD2-CE2	-7.20	1.17	1.38
3	Y	477	PHE	CE2-CZ	-7.20	1.17	1.38
2	9	85	PHE	CD2-CE2	-7.20	1.17	1.38
3	U	152	LEU	C-N	-7.20	1.23	1.33
2	T	85	PHE	CD2-CE2	-7.19	1.17	1.38
3	V	183	ARG	CG-CD	-7.19	1.30	1.52
2	3	85	PHE	CD2-CE2	-7.19	1.17	1.38
3	7	183	ARG	CG-CD	-7.19	1.30	1.52
2	E	85	PHE	CD2-CE2	-7.19	1.17	1.38
3	1	203	ASN	C-O	-7.19	1.13	1.23
3	U	477	PHE	CE2-CZ	-7.19	1.17	1.38
3	F	4	ILE	C-O	-7.19	1.17	1.24
3	F	423	SER	CB-OG	-7.19	1.27	1.42
2	N	85	PHE	CD2-CE2	-7.19	1.17	1.38
3	R	203	ASN	C-O	-7.19	1.13	1.23
3	L	477	PHE	CE2-CZ	-7.18	1.17	1.38
3	O	203	ASN	C-O	-7.18	1.13	1.23
3	R	152	LEU	C-N	-7.18	1.23	1.33
3	R	183	ARG	CG-CD	-7.18	1.30	1.52
3	I	459	ASN	CG-ND2	-7.18	1.18	1.33
1	M	32	TYR	CZ-OH	-7.18	1.23	1.38
3	O	477	PHE	CE2-CZ	-7.18	1.17	1.38
1	P	31	ASN	CG-ND2	-7.18	1.18	1.33
1	W	75	ASP	C-O	-7.18	1.14	1.24
3	4	477	PHE	CE2-CZ	-7.18	1.17	1.38
3	7	152	LEU	C-N	-7.18	1.23	1.33
3	O	253	ASP	C-O	-7.17	1.15	1.24
3	Y	253	ASP	C-O	-7.17	1.15	1.24
3	R	477	PHE	CE2-CZ	-7.17	1.17	1.38
3	V	477	PHE	CE2-CZ	-7.17	1.17	1.38
3	U	183	ARG	CG-CD	-7.17	1.30	1.52
1	A	75	ASP	C-O	-7.17	1.14	1.24
3	C	253	ASP	C-O	-7.17	1.15	1.24
3	C	477	PHE	CE2-CZ	-7.17	1.17	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	477	PHE	CE2-CZ	-7.17	1.17	1.38
1	G	75	ASP	C-O	-7.17	1.14	1.24
1	J	75	ASP	C-O	-7.17	1.14	1.24
3	1	477	PHE	CE2-CZ	-7.17	1.17	1.38
1	2	31	ASN	CG-ND2	-7.17	1.18	1.33
1	8	75	ASP	C-O	-7.17	1.14	1.24
3	U	423	SER	CB-OG	-7.17	1.27	1.42
1	M	75	ASP	C-O	-7.16	1.14	1.24
3	4	152	LEU	C-N	-7.16	1.23	1.33
3	F	253	ASP	C-O	-7.16	1.15	1.24
3	C	152	LEU	C-N	-7.16	1.23	1.33
1	J	31	ASN	CG-ND2	-7.16	1.18	1.33
1	P	75	ASP	C-O	-7.16	1.14	1.24
3	V	203	ASN	C-O	-7.16	1.13	1.23
3	Y	152	LEU	C-N	-7.16	1.23	1.33
1	Z	32	TYR	CZ-OH	-7.16	1.23	1.38
1	5	32	TYR	CZ-OH	-7.16	1.23	1.38
3	7	477	PHE	CE2-CZ	-7.16	1.17	1.38
3	I	477	PHE	CE2-CZ	-7.16	1.17	1.38
3	O	152	LEU	C-N	-7.16	1.23	1.33
3	Y	203	ASN	C-O	-7.16	1.13	1.23
3	4	423	SER	CB-OG	-7.16	1.27	1.42
3	7	437	LEU	CG-CD2	-7.15	1.28	1.52
1	S	31	ASN	CG-ND2	-7.15	1.18	1.33
1	G	31	ASN	CG-ND2	-7.15	1.18	1.33
1	J	32	TYR	CZ-OH	-7.15	1.23	1.38
3	1	437	LEU	CG-CD2	-7.15	1.28	1.52
1	D	75	ASP	C-O	-7.15	1.14	1.24
1	S	75	ASP	C-O	-7.15	1.14	1.24
1	5	31	ASN	CG-ND2	-7.15	1.18	1.33
1	A	31	ASN	CG-ND2	-7.14	1.18	1.33
3	C	203	ASN	C-O	-7.14	1.13	1.23
3	L	437	LEU	CG-CD2	-7.14	1.28	1.52
1	P	32	TYR	CE1-CZ	-7.14	1.21	1.38
3	V	437	LEU	CG-CD2	-7.14	1.28	1.52
3	U	203	ASN	C-O	-7.14	1.13	1.23
3	Y	437	LEU	CG-CD2	-7.14	1.28	1.52
1	2	32	TYR	CZ-OH	-7.14	1.23	1.38
3	4	437	LEU	CG-CD2	-7.14	1.28	1.52
1	A	32	TYR	CZ-OH	-7.14	1.23	1.38
1	D	32	TYR	CE1-CZ	-7.14	1.21	1.38
3	F	437	LEU	CG-CD2	-7.14	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	152	LEU	C-N	-7.14	1.23	1.33
3	7	253	ASP	C-O	-7.14	1.15	1.24
3	U	253	ASP	C-O	-7.14	1.15	1.24
1	D	31	ASN	CG-ND2	-7.14	1.18	1.33
3	1	152	LEU	C-N	-7.14	1.23	1.33
1	G	32	TYR	CZ-OH	-7.13	1.23	1.38
3	I	437	LEU	CG-CD2	-7.13	1.29	1.52
3	V	459	ASN	CG-ND2	-7.13	1.18	1.33
1	W	31	ASN	CG-ND2	-7.13	1.18	1.33
3	Y	459	ASN	CG-ND2	-7.13	1.18	1.33
3	4	253	ASP	C-O	-7.13	1.15	1.24
3	U	301	SER	CB-OG	-7.13	1.27	1.42
3	I	301	SER	CB-OG	-7.13	1.27	1.42
1	S	32	TYR	CZ-OH	-7.13	1.23	1.38
1	W	32	TYR	CZ-OH	-7.13	1.23	1.38
3	C	437	LEU	CG-CD2	-7.13	1.29	1.52
3	L	203	ASN	C-O	-7.13	1.13	1.23
1	8	31	ASN	CG-ND2	-7.13	1.18	1.33
3	O	301	SER	CB-OG	-7.13	1.27	1.42
3	O	437	LEU	CG-CD2	-7.13	1.29	1.52
3	1	253	ASP	C-O	-7.13	1.15	1.24
1	D	32	TYR	CZ-OH	-7.13	1.23	1.38
3	O	459	ASN	CG-ND2	-7.13	1.18	1.33
3	R	201	LYS	CB-CG	-7.13	1.31	1.52
3	U	437	LEU	CG-CD2	-7.13	1.29	1.52
3	F	152	LEU	C-N	-7.13	1.23	1.33
3	R	437	LEU	CG-CD2	-7.13	1.29	1.52
3	7	459	ASN	CG-ND2	-7.13	1.18	1.33
3	U	514	ARG	NE-CZ	-7.12	1.25	1.33
3	4	203	ASN	C-O	-7.12	1.13	1.23
1	8	32	TYR	CZ-OH	-7.12	1.23	1.38
3	I	203	ASN	C-O	-7.12	1.13	1.23
3	L	301	SER	CB-OG	-7.12	1.27	1.42
3	L	459	ASN	CG-ND2	-7.12	1.18	1.33
1	M	31	ASN	CG-ND2	-7.12	1.18	1.33
3	C	459	ASN	CG-ND2	-7.12	1.18	1.33
3	R	253	ASP	C-O	-7.12	1.15	1.24
1	Z	31	ASN	CG-ND2	-7.12	1.18	1.33
3	F	459	ASN	CG-ND2	-7.12	1.18	1.33
3	I	253	ASP	C-O	-7.12	1.15	1.24
3	L	253	ASP	C-O	-7.12	1.15	1.24
3	7	215	ILE	CG1-CD1	-7.12	1.24	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	301	SER	CB-OG	-7.12	1.27	1.42
3	C	301	SER	CB-OG	-7.11	1.27	1.42
1	S	32	TYR	CE1-CZ	-7.11	1.21	1.38
3	7	203	ASN	C-O	-7.11	1.14	1.23
1	P	32	TYR	CZ-OH	-7.11	1.23	1.38
3	V	152	LEU	C-N	-7.11	1.23	1.33
3	F	301	SER	CB-OG	-7.11	1.27	1.42
2	H	73	HIS	CG-ND1	-7.11	1.30	1.38
1	J	32	TYR	CE1-CZ	-7.11	1.21	1.38
3	L	215	ILE	CG1-CD1	-7.11	1.24	1.51
3	R	301	SER	CB-OG	-7.11	1.27	1.42
3	7	301	SER	CB-OG	-7.11	1.27	1.42
3	O	215	ILE	CG1-CD1	-7.11	1.24	1.51
3	Y	201	LYS	CB-CG	-7.11	1.31	1.52
3	Y	215	ILE	CG1-CD1	-7.11	1.24	1.51
3	F	201	LYS	CB-CG	-7.10	1.31	1.52
1	G	32	TYR	CE1-CZ	-7.10	1.21	1.38
3	7	201	LYS	CB-CG	-7.10	1.31	1.52
3	U	201	LYS	CB-CG	-7.10	1.31	1.52
1	A	32	TYR	CE1-CZ	-7.10	1.21	1.38
3	R	459	ASN	CG-ND2	-7.10	1.18	1.33
3	1	459	ASN	CG-ND2	-7.10	1.18	1.33
3	U	459	ASN	CG-ND2	-7.10	1.18	1.33
3	C	201	LYS	CB-CG	-7.10	1.31	1.52
1	Z	32	TYR	CE1-CZ	-7.10	1.21	1.38
3	C	215	ILE	CG1-CD1	-7.10	1.24	1.51
3	I	215	ILE	CG1-CD1	-7.10	1.24	1.51
3	O	527	LYS	CG-CD	-7.10	1.31	1.52
3	R	215	ILE	CG1-CD1	-7.10	1.24	1.51
1	W	32	TYR	CE1-CZ	-7.10	1.21	1.38
3	1	201	LYS	CB-CG	-7.10	1.31	1.52
3	1	453	ILE	CB-CG2	-7.10	1.29	1.52
3	V	201	LYS	CB-CG	-7.10	1.31	1.52
3	4	215	ILE	CG1-CD1	-7.10	1.24	1.51
3	F	215	ILE	CG1-CD1	-7.09	1.24	1.51
3	1	301	SER	CB-OG	-7.09	1.27	1.42
3	4	459	ASN	CG-ND2	-7.09	1.18	1.33
3	O	201	LYS	CB-CG	-7.09	1.31	1.52
3	V	215	ILE	CG1-CD1	-7.09	1.24	1.51
3	1	215	ILE	CG1-CD1	-7.09	1.24	1.51
3	U	215	ILE	CG1-CD1	-7.09	1.24	1.51
3	F	203	ASN	C-O	-7.09	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	482	PHE	CE2-CZ	-7.09	1.17	1.38
3	Y	482	PHE	CE2-CZ	-7.09	1.17	1.38
3	Y	514	ARG	NE-CZ	-7.09	1.25	1.33
3	U	453	ILE	CB-CG2	-7.09	1.29	1.52
3	F	527	LYS	CG-CD	-7.09	1.31	1.52
3	I	201	LYS	CB-CG	-7.09	1.31	1.52
3	R	514	ARG	NE-CZ	-7.08	1.25	1.33
1	8	32	TYR	CE1-CZ	-7.08	1.21	1.38
3	7	482	PHE	CE2-CZ	-7.08	1.17	1.38
3	F	453	ILE	CB-CG2	-7.08	1.29	1.52
1	2	32	TYR	CE1-CZ	-7.08	1.21	1.38
3	7	527	LYS	CG-CD	-7.08	1.31	1.52
3	C	482	PHE	CE2-CZ	-7.08	1.17	1.38
3	Y	301	SER	CB-OG	-7.08	1.27	1.42
3	U	482	PHE	CE2-CZ	-7.08	1.17	1.38
3	L	201	LYS	CB-CG	-7.08	1.31	1.52
1	M	32	TYR	CE1-CZ	-7.08	1.21	1.38
3	O	482	PHE	CE2-CZ	-7.08	1.17	1.38
3	4	201	LYS	CB-CG	-7.08	1.31	1.52
3	C	527	LYS	CG-CD	-7.07	1.31	1.52
3	I	453	ILE	CB-CG2	-7.07	1.29	1.52
3	I	527	LYS	CG-CD	-7.07	1.31	1.52
3	R	256	ASN	CG-ND2	-7.07	1.18	1.33
3	V	453	ILE	CB-CG2	-7.07	1.29	1.52
3	V	527	LYS	CG-CD	-7.07	1.31	1.52
3	L	527	LYS	CG-CD	-7.07	1.31	1.52
3	V	301	SER	CB-OG	-7.07	1.28	1.42
3	Y	527	LYS	CG-CD	-7.07	1.31	1.52
3	L	482	PHE	CE2-CZ	-7.07	1.17	1.38
3	U	527	LYS	CG-CD	-7.07	1.31	1.52
3	V	256	ASN	CG-ND2	-7.07	1.18	1.33
3	L	514	ARG	NE-CZ	-7.07	1.25	1.33
3	V	482	PHE	CE2-CZ	-7.07	1.17	1.38
3	Y	453	ILE	CB-CG2	-7.07	1.29	1.52
3	1	482	PHE	CE2-CZ	-7.07	1.17	1.38
3	1	514	ARG	NE-CZ	-7.07	1.25	1.33
3	1	527	LYS	CG-CD	-7.07	1.31	1.52
3	4	482	PHE	CE2-CZ	-7.07	1.17	1.38
1	5	32	TYR	CE1-CZ	-7.07	1.21	1.38
3	C	453	ILE	CB-CG2	-7.07	1.29	1.52
3	7	376	TRP	CZ2-CH2	-7.07	1.23	1.37
3	R	527	LYS	CG-CD	-7.06	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	514	ARG	NE-CZ	-7.06	1.25	1.33
3	R	376	TRP	CZ2-CH2	-7.06	1.23	1.37
3	Y	256	ASN	CG-ND2	-7.06	1.18	1.33
3	F	482	PHE	CE2-CZ	-7.06	1.17	1.38
3	F	514	ARG	NE-CZ	-7.06	1.25	1.33
3	L	453	ILE	CB-CG2	-7.06	1.29	1.52
3	O	376	TRP	CZ2-CH2	-7.06	1.23	1.37
3	V	376	TRP	CZ2-CH2	-7.06	1.23	1.37
3	I	482	PHE	CE2-CZ	-7.06	1.17	1.38
3	4	527	LYS	CG-CD	-7.06	1.31	1.52
3	R	453	ILE	CB-CG2	-7.06	1.29	1.52
2	X	73	HIS	CG-ND1	-7.06	1.30	1.38
3	U	404	ARG	CZ-NH2	-7.06	1.24	1.33
3	C	256	ASN	CG-ND2	-7.05	1.18	1.33
3	Y	376	TRP	CZ2-CH2	-7.05	1.23	1.37
3	O	453	ILE	CB-CG2	-7.05	1.29	1.52
3	4	453	ILE	CB-CG2	-7.05	1.29	1.52
2	9	92	GLY	CA-C	-7.05	1.41	1.51
3	7	453	ILE	CB-CG2	-7.05	1.29	1.52
3	L	256	ASN	CG-ND2	-7.05	1.18	1.33
3	1	256	ASN	CG-ND2	-7.05	1.18	1.33
3	4	256	ASN	CG-ND2	-7.04	1.18	1.33
3	7	514	ARG	NE-CZ	-7.04	1.25	1.33
3	U	376	TRP	CZ2-CH2	-7.04	1.23	1.37
3	C	376	TRP	CZ2-CH2	-7.04	1.23	1.37
3	F	376	TRP	CZ2-CH2	-7.04	1.23	1.37
3	L	404	ARG	CZ-NH2	-7.04	1.24	1.33
3	4	376	TRP	CZ2-CH2	-7.04	1.23	1.37
3	L	376	TRP	CZ2-CH2	-7.04	1.23	1.37
3	U	256	ASN	CG-ND2	-7.04	1.18	1.33
2	E	73	HIS	CG-ND1	-7.04	1.30	1.38
3	R	495	THR	C-N	-7.04	1.23	1.33
3	7	256	ASN	CG-ND2	-7.04	1.18	1.33
3	F	256	ASN	CG-ND2	-7.03	1.18	1.33
2	B	73	HIS	CG-ND1	-7.03	1.30	1.38
3	I	256	ASN	CG-ND2	-7.03	1.18	1.33
1	S	93	VAL	CB-CG2	-7.03	1.29	1.52
3	1	376	TRP	CZ2-CH2	-7.03	1.23	1.37
3	I	376	TRP	CZ2-CH2	-7.03	1.24	1.37
2	N	73	HIS	CG-ND1	-7.03	1.30	1.38
1	P	93	VAL	CB-CG2	-7.03	1.29	1.52
2	Q	73	HIS	CG-ND1	-7.03	1.30	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	93	VAL	CB-CG2	-7.02	1.29	1.52
3	F	495	THR	C-N	-7.02	1.23	1.33
3	Y	247	GLN	CD-NE2	-7.02	1.18	1.33
2	3	73	HIS	CG-ND1	-7.02	1.30	1.38
3	4	514	ARG	NE-CZ	-7.02	1.25	1.33
3	O	256	ASN	CG-ND2	-7.02	1.18	1.33
1	D	93	VAL	CB-CG2	-7.02	1.29	1.52
3	R	404	ARG	CZ-NH2	-7.02	1.24	1.33
1	M	93	VAL	CB-CG2	-7.02	1.29	1.52
3	I	514	ARG	NE-CZ	-7.01	1.25	1.33
1	8	93	VAL	CB-CG2	-7.01	1.29	1.52
1	A	93	VAL	CB-CG2	-7.01	1.29	1.52
3	V	404	ARG	CZ-NH2	-7.01	1.24	1.33
3	Y	495	THR	C-N	-7.01	1.23	1.33
3	V	514	ARG	NE-CZ	-7.01	1.25	1.33
2	X	92	GLY	CA-C	-7.01	1.41	1.51
2	0	92	GLY	CA-C	-7.01	1.41	1.51
3	1	404	ARG	CZ-NH2	-7.01	1.24	1.33
1	5	93	VAL	CB-CG2	-7.01	1.29	1.52
2	T	73	HIS	CG-ND1	-7.01	1.30	1.38
3	F	404	ARG	CZ-NH2	-7.01	1.24	1.33
3	C	404	ARG	CZ-NH2	-7.01	1.24	1.33
1	G	93	VAL	CB-CG2	-7.01	1.29	1.52
3	I	404	ARG	CZ-NH2	-7.01	1.24	1.33
3	O	514	ARG	NE-CZ	-7.01	1.25	1.33
3	7	495	THR	C-N	-7.01	1.24	1.33
3	I	495	THR	C-N	-7.00	1.24	1.33
3	1	495	THR	C-N	-7.00	1.24	1.33
3	C	495	THR	C-N	-7.00	1.24	1.33
3	U	160	PHE	CD2-CE2	-7.00	1.17	1.38
2	H	92	GLY	CA-C	-7.00	1.41	1.51
3	I	160	PHE	CD2-CE2	-7.00	1.17	1.38
2	K	73	HIS	CG-ND1	-7.00	1.30	1.38
3	V	247	GLN	CD-NE2	-7.00	1.18	1.33
1	Z	93	VAL	CB-CG2	-7.00	1.29	1.52
2	3	92	GLY	CA-C	-7.00	1.41	1.51
2	6	73	HIS	CG-ND1	-7.00	1.30	1.38
3	V	495	THR	C-N	-6.99	1.24	1.33
2	N	92	GLY	CA-C	-6.99	1.41	1.51
1	W	93	VAL	CB-CG2	-6.99	1.29	1.52
2	9	73	HIS	CG-ND1	-6.99	1.30	1.38
3	F	247	GLN	CD-NE2	-6.99	1.18	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	160	PHE	CD2-CE2	-6.99	1.17	1.38
2	6	92	GLY	CA-C	-6.99	1.41	1.51
2	B	92	GLY	CA-C	-6.99	1.41	1.51
2	E	92	GLY	CA-C	-6.99	1.41	1.51
3	L	160	PHE	CD2-CE2	-6.99	1.17	1.38
1	J	93	VAL	CB-CG2	-6.99	1.29	1.52
2	Q	92	GLY	CA-C	-6.98	1.41	1.51
3	V	160	PHE	CD2-CE2	-6.98	1.17	1.38
3	4	160	PHE	CD2-CE2	-6.98	1.17	1.38
3	L	247	GLN	CD-NE2	-6.98	1.18	1.33
3	R	160	PHE	CD2-CE2	-6.98	1.17	1.38
3	Y	404	ARG	CZ-NH2	-6.98	1.24	1.33
3	F	3	GLN	C-O	-6.98	1.15	1.24
3	4	495	THR	C-N	-6.98	1.24	1.33
3	C	160	PHE	CD2-CE2	-6.98	1.17	1.38
3	F	160	PHE	CD2-CE2	-6.97	1.17	1.38
2	T	92	GLY	CA-C	-6.97	1.41	1.51
3	1	247	GLN	CD-NE2	-6.97	1.18	1.33
3	I	247	GLN	CD-NE2	-6.97	1.18	1.33
3	R	247	GLN	CD-NE2	-6.97	1.18	1.33
3	7	404	ARG	CZ-NH2	-6.97	1.24	1.33
2	0	73	HIS	CG-ND1	-6.97	1.30	1.38
3	L	438	VAL	CB-CG2	-6.97	1.29	1.52
3	C	247	GLN	CD-NE2	-6.97	1.18	1.33
3	1	160	PHE	CD2-CE2	-6.97	1.17	1.38
3	4	404	ARG	CZ-NH2	-6.97	1.24	1.33
3	7	160	PHE	CD2-CE2	-6.97	1.17	1.38
3	U	438	VAL	CB-CG2	-6.97	1.29	1.52
3	O	160	PHE	CD2-CE2	-6.96	1.17	1.38
3	R	438	VAL	CB-CG2	-6.96	1.29	1.52
3	O	247	GLN	CD-NE2	-6.96	1.18	1.33
3	U	247	GLN	CD-NE2	-6.96	1.18	1.33
2	K	92	GLY	CA-C	-6.96	1.41	1.51
3	O	495	THR	C-N	-6.96	1.24	1.33
2	0	154[A]	ARG	C-O	-6.96	1.16	1.24
2	0	154[B]	ARG	C-O	-6.96	1.16	1.24
2	6	154[A]	ARG	C-O	-6.96	1.16	1.24
2	6	154[B]	ARG	C-O	-6.96	1.16	1.24
2	9	154[A]	ARG	C-O	-6.96	1.16	1.24
2	9	154[B]	ARG	C-O	-6.96	1.16	1.24
2	X	154[A]	ARG	C-O	-6.96	1.16	1.24
2	X	154[B]	ARG	C-O	-6.96	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	247	GLN	CD-NE2	-6.96	1.18	1.33
3	O	438	VAL	CB-CG2	-6.96	1.29	1.52
3	7	247	GLN	CD-NE2	-6.96	1.18	1.33
3	O	404	ARG	CZ-NH2	-6.95	1.24	1.33
3	I	3	GLN	C-O	-6.95	1.15	1.24
3	7	438	VAL	CB-CG2	-6.95	1.29	1.52
3	C	438	VAL	CB-CG2	-6.95	1.29	1.52
3	Y	438	VAL	CB-CG2	-6.95	1.29	1.52
3	4	438	VAL	CB-CG2	-6.95	1.29	1.52
3	L	495	THR	C-N	-6.95	1.24	1.33
3	I	438	VAL	CB-CG2	-6.94	1.29	1.52
3	1	438	VAL	CB-CG2	-6.94	1.29	1.52
3	U	159	PHE	CD2-CE2	-6.94	1.17	1.38
3	F	438	VAL	CB-CG2	-6.94	1.29	1.52
3	R	3	GLN	C-O	-6.94	1.15	1.24
3	V	144	SER	CB-OG	-6.94	1.28	1.42
3	1	159	PHE	CD2-CE2	-6.94	1.17	1.38
2	3	154[A]	ARG	C-O	-6.94	1.16	1.24
2	3	154[B]	ARG	C-O	-6.94	1.16	1.24
2	K	154[A]	ARG	C-O	-6.94	1.16	1.24
2	K	154[B]	ARG	C-O	-6.94	1.16	1.24
3	R	378	ARG	CZ-NH2	-6.94	1.24	1.33
3	V	438	VAL	CB-CG2	-6.94	1.29	1.52
1	2	32	TYR	CD1-CE1	-6.94	1.17	1.38
3	F	144	SER	CB-OG	-6.94	1.28	1.42
3	U	495	THR	C-N	-6.94	1.24	1.33
3	4	29	PHE	CD1-CE1	-6.93	1.17	1.38
3	U	144	SER	CB-OG	-6.93	1.28	1.42
3	O	29	PHE	CD1-CE1	-6.93	1.17	1.38
3	O	159	PHE	CD2-CE2	-6.93	1.17	1.38
3	Y	3	GLN	C-O	-6.93	1.15	1.24
3	I	378	ARG	CZ-NH2	-6.93	1.24	1.33
3	O	144	SER	CB-OG	-6.93	1.28	1.42
3	L	144	SER	CB-OG	-6.93	1.28	1.42
3	1	3	GLN	C-O	-6.93	1.15	1.24
2	B	154[A]	ARG	C-O	-6.93	1.16	1.24
2	B	154[B]	ARG	C-O	-6.93	1.16	1.24
3	Y	144	SER	CB-OG	-6.93	1.28	1.42
3	1	137	ASP	C-O	-6.93	1.15	1.23
3	4	159	PHE	CD2-CE2	-6.93	1.17	1.38
3	C	159	PHE	CD2-CE2	-6.92	1.17	1.38
3	L	159	PHE	CD2-CE2	-6.92	1.17	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	3	GLN	C-O	-6.92	1.15	1.24
2	T	154[A]	ARG	C-O	-6.92	1.16	1.24
2	T	154[B]	ARG	C-O	-6.92	1.16	1.24
3	F	159	PHE	CD2-CE2	-6.92	1.17	1.38
3	7	159	PHE	CD2-CE2	-6.92	1.17	1.38
3	C	3	GLN	C-O	-6.92	1.15	1.24
2	E	154[A]	ARG	C-O	-6.92	1.16	1.24
2	E	154[B]	ARG	C-O	-6.92	1.16	1.24
1	W	32	TYR	CD1-CE1	-6.92	1.17	1.38
3	Y	159	PHE	CD2-CE2	-6.92	1.17	1.38
3	V	159	PHE	CD2-CE2	-6.92	1.18	1.38
3	4	3	GLN	C-O	-6.92	1.15	1.24
3	4	144	SER	CB-OG	-6.92	1.28	1.42
3	U	378	ARG	CZ-NH2	-6.92	1.24	1.33
3	L	29	PHE	CD1-CE1	-6.92	1.18	1.38
3	V	29	PHE	CD1-CE1	-6.92	1.18	1.38
1	5	32	TYR	CD1-CE1	-6.92	1.18	1.38
3	C	144	SER	CB-OG	-6.91	1.28	1.42
3	1	144	SER	CB-OG	-6.91	1.28	1.42
3	I	159	PHE	CD2-CE2	-6.91	1.18	1.38
3	Y	378	ARG	CZ-NH2	-6.91	1.24	1.33
3	C	29	PHE	CD1-CE1	-6.91	1.18	1.38
3	1	29	PHE	CD1-CE1	-6.91	1.18	1.38
3	F	29	PHE	CD1-CE1	-6.91	1.18	1.38
1	G	32	TYR	CD1-CE1	-6.91	1.18	1.38
1	J	32	TYR	CD1-CE1	-6.91	1.18	1.38
3	L	3	GLN	C-O	-6.91	1.15	1.24
3	R	144	SER	CB-OG	-6.91	1.28	1.42
1	Z	32	TYR	CD1-CE1	-6.91	1.18	1.38
1	M	32	TYR	CD1-CE1	-6.91	1.18	1.38
3	O	3	GLN	C-O	-6.91	1.15	1.24
3	U	29	PHE	CD1-CE1	-6.91	1.18	1.38
3	V	378	ARG	CZ-NH2	-6.91	1.24	1.33
3	7	29	PHE	CD1-CE1	-6.91	1.18	1.38
3	C	378	ARG	CZ-NH2	-6.90	1.24	1.33
3	4	137	ASP	C-O	-6.90	1.15	1.23
3	7	3	GLN	C-O	-6.90	1.15	1.24
1	8	32	TYR	CD1-CE1	-6.90	1.18	1.38
1	A	32	TYR	CD1-CE1	-6.90	1.18	1.38
1	D	32	TYR	CD1-CE1	-6.90	1.18	1.38
3	7	144	SER	CB-OG	-6.90	1.28	1.42
2	H	154[A]	ARG	C-O	-6.90	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	154[B]	ARG	C-O	-6.90	1.16	1.24
3	F	378	ARG	CZ-NH2	-6.90	1.24	1.33
3	I	29	PHE	CD1-CE1	-6.90	1.18	1.38
3	Y	29	PHE	CD1-CE1	-6.90	1.18	1.38
3	F	271	ARG	CG-CD	-6.89	1.31	1.52
3	R	271	ARG	CG-CD	-6.89	1.31	1.52
3	R	29	PHE	CD1-CE1	-6.89	1.18	1.38
3	R	159	PHE	CD2-CE2	-6.89	1.18	1.38
3	4	271	ARG	CG-CD	-6.89	1.31	1.52
3	7	137	ASP	C-O	-6.89	1.15	1.23
3	I	271	ARG	CG-CD	-6.89	1.31	1.52
3	L	271	ARG	CG-CD	-6.88	1.31	1.52
1	P	32	TYR	CD1-CE1	-6.88	1.18	1.38
3	4	378	ARG	CZ-NH2	-6.88	1.24	1.33
2	Q	154[A]	ARG	C-O	-6.88	1.16	1.24
2	Q	154[B]	ARG	C-O	-6.88	1.16	1.24
3	I	144	SER	CB-OG	-6.88	1.28	1.42
1	S	32	TYR	CD1-CE1	-6.88	1.18	1.38
3	U	271	ARG	CG-CD	-6.88	1.31	1.52
3	C	271	ARG	CG-CD	-6.88	1.31	1.52
3	O	378	ARG	CZ-NH2	-6.88	1.24	1.33
3	1	136	ILE	CB-CG2	-6.88	1.29	1.52
3	F	137	ASP	C-O	-6.87	1.15	1.23
2	N	154[A]	ARG	C-O	-6.87	1.16	1.24
2	N	154[B]	ARG	C-O	-6.87	1.16	1.24
3	Y	136	ILE	CB-CG2	-6.87	1.29	1.52
3	Y	271	ARG	CG-CD	-6.87	1.31	1.52
3	U	3	GLN	C-O	-6.87	1.15	1.24
2	H	118	PHE	CE2-CZ	-6.87	1.18	1.38
3	L	136	ILE	CB-CG2	-6.87	1.29	1.52
3	L	378	ARG	CZ-NH2	-6.87	1.24	1.33
3	O	160	PHE	CE1-CZ	-6.87	1.18	1.38
3	1	378	ARG	CZ-NH2	-6.87	1.24	1.33
3	F	160	PHE	CE1-CZ	-6.87	1.18	1.38
3	F	136	ILE	CB-CG2	-6.87	1.29	1.52
3	I	136	ILE	CB-CG2	-6.87	1.29	1.52
3	O	136	ILE	CB-CG2	-6.87	1.29	1.52
3	V	271	ARG	CG-CD	-6.87	1.31	1.52
3	4	160	PHE	CE1-CZ	-6.87	1.18	1.38
3	U	137	ASP	C-O	-6.87	1.15	1.23
3	I	160	PHE	CE1-CZ	-6.86	1.18	1.38
3	O	271	ARG	CG-CD	-6.86	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	118	PHE	CE2-CZ	-6.86	1.18	1.38
3	1	271	ARG	CG-CD	-6.86	1.31	1.52
2	E	118	PHE	CE2-CZ	-6.86	1.18	1.38
2	0	118	PHE	CE2-CZ	-6.86	1.18	1.38
3	4	136	ILE	CB-CG2	-6.86	1.29	1.52
2	B	118	PHE	CE2-CZ	-6.86	1.18	1.38
3	C	136	ILE	CB-CG2	-6.86	1.29	1.52
3	C	137	ASP	C-O	-6.86	1.15	1.23
3	V	517	ILE	CG1-CD1	-6.86	1.25	1.51
2	9	118	PHE	CE2-CZ	-6.86	1.18	1.38
2	K	118	PHE	CE2-CZ	-6.86	1.18	1.38
3	4	517	ILE	CG1-CD1	-6.86	1.25	1.51
3	7	271	ARG	CG-CD	-6.86	1.31	1.52
3	1	517	ILE	CG1-CD1	-6.85	1.25	1.51
2	6	118	PHE	CE2-CZ	-6.85	1.18	1.38
3	7	136	ILE	CB-CG2	-6.85	1.29	1.52
3	R	137	ASP	C-O	-6.85	1.15	1.23
3	1	160	PHE	CE1-CZ	-6.85	1.18	1.38
2	T	118	PHE	CE2-CZ	-6.85	1.18	1.38
3	Y	517	ILE	CG1-CD1	-6.85	1.25	1.51
3	7	517	ILE	CG1-CD1	-6.85	1.25	1.51
3	U	136	ILE	CB-CG2	-6.85	1.29	1.52
3	C	517	ILE	CG1-CD1	-6.85	1.25	1.51
3	C	160	PHE	CE1-CZ	-6.85	1.18	1.38
3	U	160	PHE	CE1-CZ	-6.85	1.18	1.38
2	N	118	PHE	CE2-CZ	-6.84	1.18	1.38
3	V	160	PHE	CE1-CZ	-6.84	1.18	1.38
3	L	517	ILE	CG1-CD1	-6.84	1.25	1.51
3	R	136	ILE	CB-CG2	-6.84	1.29	1.52
3	O	517	ILE	CG1-CD1	-6.84	1.25	1.51
3	R	517	ILE	CG1-CD1	-6.84	1.25	1.51
3	7	160	PHE	CE1-CZ	-6.84	1.18	1.38
3	I	517	ILE	CG1-CD1	-6.84	1.25	1.51
3	V	136	ILE	CB-CG2	-6.84	1.29	1.52
3	F	517	ILE	CG1-CD1	-6.84	1.25	1.51
3	L	160	PHE	CE1-CZ	-6.83	1.18	1.38
2	3	118	PHE	CE2-CZ	-6.83	1.18	1.38
3	7	378	ARG	CZ-NH2	-6.83	1.24	1.33
3	R	160	PHE	CE1-CZ	-6.83	1.18	1.38
2	X	118	PHE	CE2-CZ	-6.83	1.18	1.38
3	U	517	ILE	CG1-CD1	-6.83	1.25	1.51
3	R	321	ILE	CG1-CD1	-6.82	1.25	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	160	PHE	CE1-CZ	-6.82	1.18	1.38
3	U	321	ILE	CG1-CD1	-6.82	1.25	1.51
3	L	321	ILE	CG1-CD1	-6.81	1.25	1.51
3	V	321	ILE	CG1-CD1	-6.81	1.25	1.51
3	1	321	ILE	CG1-CD1	-6.81	1.25	1.51
3	O	321	ILE	CG1-CD1	-6.81	1.25	1.51
3	L	137	ASP	C-O	-6.81	1.15	1.23
3	7	321	ILE	CG1-CD1	-6.80	1.25	1.51
3	C	321	ILE	CG1-CD1	-6.80	1.25	1.51
3	O	137	ASP	C-O	-6.80	1.15	1.23
3	I	321	ILE	CG1-CD1	-6.80	1.25	1.51
3	Y	137	ASP	C-O	-6.80	1.15	1.23
3	F	321	ILE	CG1-CD1	-6.79	1.25	1.51
3	Y	321	ILE	CG1-CD1	-6.79	1.25	1.51
3	4	321	ILE	CG1-CD1	-6.79	1.25	1.51
3	Y	273	ILE	CB-CG2	-6.79	1.30	1.52
3	1	273	ILE	CB-CG2	-6.79	1.30	1.52
3	I	137	ASP	C-O	-6.78	1.15	1.23
3	V	137	ASP	C-O	-6.78	1.15	1.23
3	V	273	ILE	CB-CG2	-6.78	1.30	1.52
3	F	273	ILE	CB-CG2	-6.78	1.30	1.52
3	C	273	ILE	CB-CG2	-6.77	1.30	1.52
3	L	273	ILE	CB-CG2	-6.77	1.30	1.52
3	U	273	ILE	CB-CG2	-6.77	1.30	1.52
3	7	273	ILE	CB-CG2	-6.77	1.30	1.52
3	O	273	ILE	CB-CG2	-6.76	1.30	1.52
3	R	273	ILE	CB-CG2	-6.76	1.30	1.52
3	V	376	TRP	NE1-CE2	-6.76	1.30	1.37
3	U	376	TRP	NE1-CE2	-6.76	1.30	1.37
3	O	296	PRO	CB-CG	-6.75	1.15	1.49
3	4	273	ILE	CB-CG2	-6.75	1.30	1.52
3	7	376	TRP	NE1-CE2	-6.75	1.30	1.37
3	Y	296	PRO	CB-CG	-6.75	1.15	1.49
3	7	296	PRO	CB-CG	-6.75	1.15	1.49
3	F	296	PRO	CB-CG	-6.75	1.15	1.49
3	1	296	PRO	CB-CG	-6.75	1.15	1.49
3	I	296	PRO	CB-CG	-6.75	1.16	1.49
3	I	448	LYS	CG-CD	-6.75	1.32	1.52
3	O	376	TRP	NE1-CE2	-6.75	1.30	1.37
3	C	296	PRO	CB-CG	-6.75	1.16	1.49
3	L	296	PRO	CB-CG	-6.75	1.16	1.49
3	V	296	PRO	CB-CG	-6.75	1.16	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	273	ILE	CB-CG2	-6.75	1.30	1.52
3	1	276	PHE	C-O	-6.75	1.14	1.23
3	R	448	LYS	CG-CD	-6.74	1.32	1.52
3	Y	289	ILE	CG1-CD1	-6.74	1.25	1.51
3	7	448	LYS	CG-CD	-6.74	1.32	1.52
3	U	458	ILE	CB-CG2	-6.74	1.30	1.52
3	F	448	LYS	CG-CD	-6.74	1.32	1.52
3	I	289	ILE	CG1-CD1	-6.74	1.25	1.51
3	R	296	PRO	CB-CG	-6.74	1.16	1.49
3	V	289	ILE	CG1-CD1	-6.74	1.25	1.51
3	C	289	ILE	CG1-CD1	-6.73	1.25	1.51
3	F	376	TRP	NE1-CE2	-6.73	1.30	1.37
3	L	289	ILE	CG1-CD1	-6.73	1.25	1.51
3	4	458	ILE	CB-CG2	-6.73	1.30	1.52
3	U	296	PRO	CB-CG	-6.73	1.16	1.49
3	I	376	TRP	NE1-CE2	-6.73	1.30	1.37
3	O	289	ILE	CG1-CD1	-6.73	1.25	1.51
3	4	296	PRO	CB-CG	-6.73	1.16	1.49
3	R	376	TRP	NE1-CE2	-6.73	1.30	1.37
3	1	289	ILE	CG1-CD1	-6.73	1.25	1.51
3	1	458	ILE	CB-CG2	-6.73	1.30	1.52
3	4	448	LYS	CG-CD	-6.73	1.32	1.52
3	C	376	TRP	NE1-CE2	-6.72	1.30	1.37
3	R	289	ILE	CG1-CD1	-6.72	1.25	1.51
3	Y	448	LYS	CG-CD	-6.72	1.32	1.52
3	4	379	VAL	CB-CG1	-6.72	1.30	1.52
3	C	448	LYS	CG-CD	-6.72	1.32	1.52
3	F	379	VAL	CB-CG1	-6.72	1.30	1.52
3	F	458	ILE	CB-CG2	-6.72	1.30	1.52
3	O	276	PHE	C-O	-6.72	1.14	1.23
3	4	289	ILE	CG1-CD1	-6.72	1.25	1.51
3	L	458	ILE	CB-CG2	-6.72	1.30	1.52
3	V	379	VAL	CB-CG1	-6.72	1.30	1.52
3	I	458	ILE	CB-CG2	-6.72	1.30	1.52
3	L	448	LYS	CG-CD	-6.72	1.32	1.52
3	O	458	ILE	CB-CG2	-6.72	1.30	1.52
3	Y	276	PHE	C-O	-6.72	1.14	1.23
3	1	376	TRP	NE1-CE2	-6.72	1.30	1.37
3	4	376	TRP	NE1-CE2	-6.72	1.30	1.37
3	U	289	ILE	CG1-CD1	-6.72	1.25	1.51
3	F	289	ILE	CG1-CD1	-6.72	1.25	1.51
3	Y	376	TRP	NE1-CE2	-6.72	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	276	PHE	C-O	-6.72	1.14	1.23
3	C	458	ILE	CB-CG2	-6.72	1.30	1.52
3	L	379	VAL	CB-CG1	-6.72	1.30	1.52
3	O	448	LYS	CG-CD	-6.72	1.32	1.52
3	V	448	LYS	CG-CD	-6.71	1.32	1.52
3	7	289	ILE	CG1-CD1	-6.71	1.25	1.51
3	Y	379	VAL	CB-CG1	-6.71	1.30	1.52
3	C	379	VAL	CB-CG1	-6.71	1.30	1.52
3	I	379	VAL	CB-CG1	-6.71	1.30	1.52
3	Y	458	ILE	CB-CG2	-6.71	1.30	1.52
3	1	494	VAL	C-N	-6.71	1.21	1.33
3	7	458	ILE	CB-CG2	-6.71	1.30	1.52
3	1	448	LYS	CG-CD	-6.71	1.32	1.52
3	1	379	VAL	CB-CG1	-6.71	1.30	1.52
3	7	494	VAL	C-N	-6.71	1.21	1.33
3	U	379	VAL	CB-CG1	-6.71	1.30	1.52
3	U	448	LYS	CG-CD	-6.71	1.32	1.52
3	7	379	VAL	CB-CG1	-6.71	1.30	1.52
1	S	23	ARG	CZ-NH1	-6.71	1.23	1.32
3	V	494	VAL	C-N	-6.71	1.21	1.33
3	F	276	PHE	C-O	-6.70	1.14	1.23
3	R	379	VAL	CB-CG1	-6.70	1.30	1.52
3	R	458	ILE	CB-CG2	-6.70	1.30	1.52
3	V	276	PHE	C-O	-6.70	1.14	1.23
3	V	458	ILE	CB-CG2	-6.70	1.30	1.52
3	F	211	LEU	CG-CD2	-6.70	1.30	1.52
3	L	177	PRO	C-N	-6.70	1.23	1.33
3	R	276	PHE	C-O	-6.70	1.14	1.23
1	G	23	ARG	CZ-NH1	-6.70	1.23	1.32
3	O	379	VAL	CB-CG1	-6.70	1.30	1.52
1	W	23	ARG	CZ-NH1	-6.70	1.23	1.32
3	L	276	PHE	C-O	-6.70	1.14	1.23
3	1	211	LEU	CG-CD2	-6.70	1.30	1.52
3	C	276	PHE	C-O	-6.69	1.14	1.23
3	Y	494	VAL	C-N	-6.69	1.21	1.33
1	Z	23	ARG	CZ-NH1	-6.69	1.23	1.32
1	D	23	ARG	CZ-NH1	-6.69	1.23	1.32
3	F	177	PRO	C-N	-6.69	1.23	1.33
3	L	211	LEU	CG-CD2	-6.69	1.30	1.52
3	O	494	VAL	C-N	-6.69	1.21	1.33
3	Y	211	LEU	CG-CD2	-6.69	1.30	1.52
1	2	23	ARG	CZ-NH1	-6.69	1.23	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	276	PHE	C-O	-6.69	1.14	1.23
1	A	23	ARG	CZ-NH1	-6.69	1.23	1.32
3	C	494	VAL	C-N	-6.69	1.21	1.33
3	F	494	VAL	C-N	-6.69	1.21	1.33
3	O	211	LEU	CG-CD2	-6.68	1.30	1.52
3	R	494	VAL	C-N	-6.68	1.21	1.33
3	4	276	PHE	C-O	-6.68	1.14	1.23
1	J	23	ARG	CZ-NH1	-6.68	1.23	1.32
3	V	211	LEU	CG-CD2	-6.68	1.30	1.52
1	5	23	ARG	CZ-NH1	-6.68	1.23	1.32
3	C	211	LEU	CG-CD2	-6.68	1.30	1.52
3	I	494	VAL	C-N	-6.67	1.21	1.33
3	7	177	PRO	C-N	-6.67	1.23	1.33
3	4	494	VAL	C-N	-6.67	1.21	1.33
3	I	276	PHE	C-O	-6.67	1.14	1.23
3	L	376	TRP	NE1-CE2	-6.67	1.30	1.37
3	R	211	LEU	CG-CD2	-6.67	1.30	1.52
3	U	494	VAL	C-N	-6.67	1.21	1.33
3	O	152	LEU	CB-CG	-6.67	1.40	1.53
3	4	211	LEU	CG-CD2	-6.67	1.30	1.52
3	7	211	LEU	CG-CD2	-6.67	1.30	1.52
3	Y	152	LEU	CB-CG	-6.67	1.40	1.53
3	I	177	PRO	C-N	-6.66	1.23	1.33
3	L	152	LEU	CB-CG	-6.66	1.40	1.53
3	Y	177	PRO	C-N	-6.66	1.23	1.33
3	1	177	PRO	C-N	-6.66	1.23	1.33
3	I	211	LEU	CG-CD2	-6.66	1.30	1.52
3	R	152	LEU	CB-CG	-6.66	1.40	1.53
3	7	152	LEU	CB-CG	-6.66	1.40	1.53
2	N	128	ASN	CG-ND2	-6.66	1.19	1.33
3	4	152	LEU	CB-CG	-6.66	1.40	1.53
3	L	494	VAL	C-N	-6.65	1.21	1.33
3	U	211	LEU	CG-CD2	-6.65	1.30	1.52
2	H	128	ASN	CG-ND2	-6.65	1.19	1.33
3	C	177	PRO	C-N	-6.65	1.23	1.33
3	I	152	LEU	CB-CG	-6.65	1.40	1.53
3	C	152	LEU	CB-CG	-6.64	1.40	1.53
1	P	23	ARG	CZ-NH1	-6.64	1.23	1.32
1	M	23	ARG	CZ-NH1	-6.64	1.23	1.32
3	O	97	ALA	C-N	-6.64	1.24	1.33
3	R	63	ARG	NE-CZ	-6.64	1.25	1.33
2	T	128	ASN	CG-ND2	-6.64	1.19	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	152	LEU	CB-CG	-6.64	1.40	1.53
3	F	152	LEU	CB-CG	-6.64	1.40	1.53
2	X	128	ASN	CG-ND2	-6.64	1.19	1.33
3	1	221	TYR	CE2-CZ	-6.64	1.22	1.38
2	0	128	ASN	CG-ND2	-6.64	1.19	1.33
3	4	177	PRO	C-N	-6.64	1.23	1.33
2	K	128	ASN	CG-ND2	-6.63	1.19	1.33
3	V	152	LEU	CB-CG	-6.63	1.40	1.53
1	8	23	ARG	CZ-NH1	-6.63	1.23	1.32
3	R	177	PRO	C-N	-6.63	1.23	1.33
3	Y	97	ALA	C-N	-6.63	1.24	1.33
3	Y	221	TYR	CE2-CZ	-6.63	1.22	1.38
3	7	221	TYR	CE2-CZ	-6.63	1.22	1.38
2	B	128	ASN	CG-ND2	-6.62	1.19	1.33
3	R	221	TYR	CE2-CZ	-6.62	1.22	1.38
3	I	514	ARG	CZ-NH2	-6.62	1.24	1.33
3	V	177	PRO	C-N	-6.62	1.23	1.33
3	4	221	TYR	CE2-CZ	-6.62	1.22	1.38
3	O	514	ARG	CZ-NH2	-6.62	1.24	1.33
2	E	128	ASN	CG-ND2	-6.62	1.19	1.33
2	3	128	ASN	CG-ND2	-6.62	1.19	1.33
2	9	128	ASN	CG-ND2	-6.62	1.19	1.33
3	O	221	TYR	CE2-CZ	-6.61	1.22	1.38
3	C	221	TYR	CE2-CZ	-6.61	1.22	1.38
2	Q	128	ASN	CG-ND2	-6.61	1.19	1.33
3	I	221	TYR	CE2-CZ	-6.61	1.22	1.38
3	L	221	TYR	CE2-CZ	-6.61	1.22	1.38
3	1	152	LEU	CB-CG	-6.61	1.40	1.53
2	6	128	ASN	CG-ND2	-6.61	1.19	1.33
3	O	177	PRO	C-N	-6.60	1.23	1.33
3	V	63	ARG	NE-CZ	-6.60	1.25	1.33
3	V	221	TYR	CE2-CZ	-6.60	1.22	1.38
3	F	514	ARG	CZ-NH2	-6.60	1.24	1.33
3	R	514	ARG	CZ-NH2	-6.60	1.24	1.33
3	V	514	ARG	CZ-NH2	-6.60	1.24	1.33
3	U	63	ARG	NE-CZ	-6.60	1.25	1.33
3	U	177	PRO	C-N	-6.59	1.23	1.33
3	U	221	TYR	CE2-CZ	-6.59	1.22	1.38
3	F	221	TYR	CE2-CZ	-6.59	1.22	1.38
3	L	514	ARG	CZ-NH2	-6.59	1.24	1.33
3	1	63	ARG	NE-CZ	-6.58	1.25	1.33
3	Y	63	ARG	NE-CZ	-6.58	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	190	GLU	CB-CG	-6.58	1.32	1.52
3	V	190	GLU	CB-CG	-6.58	1.32	1.52
3	F	63	ARG	NE-CZ	-6.57	1.25	1.33
3	1	514	ARG	CZ-NH2	-6.57	1.25	1.33
3	F	363	SER	C-N	6.57	1.42	1.33
3	Y	514	ARG	CZ-NH2	-6.57	1.25	1.33
3	L	63	ARG	NE-CZ	-6.57	1.25	1.33
3	R	97	ALA	C-N	-6.57	1.24	1.33
3	Y	190	GLU	CB-CG	-6.57	1.32	1.52
3	4	190	GLU	CB-CG	-6.56	1.32	1.52
3	I	363	SER	C-N	6.56	1.42	1.33
3	7	190	GLU	CB-CG	-6.56	1.32	1.52
3	C	63	ARG	NE-CZ	-6.56	1.25	1.33
3	1	190	GLU	CB-CG	-6.56	1.32	1.52
3	7	514	ARG	CZ-NH2	-6.56	1.25	1.33
3	C	190	GLU	CB-CG	-6.56	1.32	1.52
3	C	514	ARG	CZ-NH2	-6.56	1.25	1.33
3	I	190	GLU	CB-CG	-6.56	1.32	1.52
3	4	363	SER	C-N	6.56	1.42	1.33
3	U	190	GLU	CB-CG	-6.56	1.32	1.52
3	7	97	ALA	C-N	-6.56	1.24	1.33
3	L	16	THR	C-O	-6.56	1.14	1.23
3	R	190	GLU	CB-CG	-6.55	1.32	1.52
3	I	16	THR	C-O	-6.55	1.14	1.23
3	V	16	THR	C-O	-6.55	1.14	1.23
3	7	268	PHE	CE1-CZ	-6.55	1.19	1.38
3	C	363	SER	C-N	6.55	1.42	1.33
3	I	63	ARG	NE-CZ	-6.55	1.25	1.33
3	L	190	GLU	CB-CG	-6.55	1.32	1.52
3	U	363	SER	C-N	6.55	1.42	1.33
3	O	268	PHE	CE1-CZ	-6.55	1.19	1.38
3	R	363	SER	C-N	6.55	1.42	1.33
3	Y	363	SER	C-N	6.55	1.42	1.33
3	U	16	THR	C-O	-6.55	1.14	1.23
3	F	190	GLU	CB-CG	-6.55	1.32	1.52
3	1	460	TRP	CD1-NE1	-6.55	1.24	1.37
3	4	514	ARG	CZ-NH2	-6.55	1.25	1.33
3	Y	268	PHE	CE1-CZ	-6.54	1.19	1.38
3	1	363	SER	C-N	6.54	1.42	1.33
3	U	514	ARG	CZ-NH2	-6.54	1.25	1.33
3	V	363	SER	C-N	6.54	1.42	1.33
3	7	460	TRP	CD1-NE1	-6.54	1.24	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	570	PHE	CE2-CZ	-6.54	1.19	1.38
3	I	570	PHE	CE2-CZ	-6.54	1.19	1.38
3	O	570	PHE	CE2-CZ	-6.54	1.19	1.38
3	R	460	TRP	CD1-NE1	-6.54	1.24	1.37
3	V	570	PHE	CE2-CZ	-6.54	1.19	1.38
3	O	363	SER	C-N	6.54	1.42	1.33
3	R	268	PHE	CE1-CZ	-6.54	1.19	1.38
3	F	460	TRP	CD1-NE1	-6.54	1.24	1.37
3	Y	460	TRP	CD1-NE1	-6.54	1.24	1.37
3	7	363	SER	C-N	6.54	1.42	1.33
3	C	268	PHE	CE1-CZ	-6.53	1.19	1.38
3	L	460	TRP	CD1-NE1	-6.53	1.24	1.37
3	I	268	PHE	CE1-CZ	-6.53	1.19	1.38
3	1	16	THR	C-O	-6.53	1.14	1.23
3	I	460	TRP	CD1-NE1	-6.53	1.24	1.37
3	L	268	PHE	CE1-CZ	-6.53	1.19	1.38
3	4	16	THR	C-O	-6.53	1.14	1.23
3	4	570	PHE	CE2-CZ	-6.53	1.19	1.38
3	U	303	THR	C-O	-6.53	1.15	1.23
3	C	570	PHE	CE2-CZ	-6.53	1.19	1.38
3	F	268	PHE	CE1-CZ	-6.53	1.19	1.38
3	R	570	PHE	CE2-CZ	-6.53	1.19	1.38
3	V	268	PHE	CE1-CZ	-6.53	1.19	1.38
3	4	268	PHE	CE1-CZ	-6.53	1.19	1.38
3	7	63	ARG	NE-CZ	-6.53	1.25	1.33
3	C	16	THR	C-O	-6.53	1.14	1.23
3	1	570	PHE	CE2-CZ	-6.53	1.19	1.38
3	L	363	SER	C-N	6.53	1.42	1.33
3	Y	16	THR	C-O	-6.53	1.14	1.23
3	F	570	PHE	CE2-CZ	-6.52	1.19	1.38
3	7	570	PHE	CE2-CZ	-6.52	1.19	1.38
3	4	97	ALA	C-N	-6.52	1.24	1.33
3	R	16	THR	C-O	-6.52	1.14	1.23
3	1	268	PHE	CE1-CZ	-6.52	1.19	1.38
3	7	16	THR	C-O	-6.52	1.14	1.23
3	L	570	PHE	CE2-CZ	-6.52	1.19	1.38
3	U	460	TRP	CD1-NE1	-6.52	1.24	1.37
3	4	460	TRP	CD1-NE1	-6.52	1.24	1.37
3	F	16	THR	C-O	-6.51	1.14	1.23
3	F	444	PHE	CG-CD1	-6.51	1.25	1.38
3	Y	570	PHE	CE2-CZ	-6.51	1.19	1.38
3	7	180	TRP	CD2-CE3	-6.51	1.29	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	180	TRP	CD2-CE3	-6.51	1.29	1.40
3	C	460	TRP	CD1-NE1	-6.51	1.24	1.37
3	U	268	PHE	CE1-CZ	-6.51	1.19	1.38
3	4	237	SER	CB-OG	-6.51	1.29	1.42
3	I	444	PHE	CG-CD1	-6.51	1.25	1.38
3	V	180	TRP	CD2-CE3	-6.51	1.29	1.40
3	Y	82	LEU	C-O	-6.51	1.15	1.24
3	4	63	ARG	NE-CZ	-6.51	1.25	1.33
3	I	180	TRP	CD2-CE3	-6.50	1.29	1.40
3	Y	180	TRP	CD2-CE3	-6.50	1.29	1.40
3	O	180	TRP	CD2-CE3	-6.50	1.29	1.40
3	V	460	TRP	CD1-NE1	-6.50	1.24	1.37
3	7	82	LEU	C-O	-6.50	1.15	1.24
3	R	180	TRP	CD2-CE3	-6.50	1.29	1.40
3	U	82	LEU	C-O	-6.50	1.15	1.24
3	O	460	TRP	CD1-NE1	-6.50	1.24	1.37
3	1	180	TRP	CD2-CE3	-6.49	1.29	1.40
3	4	303	THR	C-O	-6.49	1.15	1.23
3	Y	444	PHE	CG-CD1	-6.49	1.25	1.38
3	4	143	ILE	CB-CG2	-6.49	1.31	1.52
3	F	420	GLN	C-N	-6.49	1.24	1.33
3	V	444	PHE	CG-CD1	-6.49	1.25	1.38
3	Y	303	THR	C-O	-6.49	1.15	1.23
3	V	143	ILE	CB-CG2	-6.49	1.31	1.52
3	F	291	ARG	CD-NE	-6.49	1.37	1.46
3	O	63	ARG	NE-CZ	-6.49	1.25	1.33
3	V	420	GLN	C-N	-6.49	1.24	1.33
3	U	180	TRP	CD2-CE3	-6.48	1.29	1.40
3	F	143	ILE	CB-CG2	-6.48	1.31	1.52
3	L	143	ILE	CB-CG2	-6.48	1.31	1.52
3	R	420	GLN	C-N	-6.48	1.24	1.33
3	I	143	ILE	CB-CG2	-6.48	1.31	1.52
3	R	159	PHE	CG-CD1	-6.48	1.25	1.38
3	R	532	ARG	NE-CZ	-6.48	1.25	1.33
3	V	291	ARG	CD-NE	-6.48	1.37	1.46
3	4	144	SER	CA-CB	-6.48	1.44	1.53
3	7	303	THR	C-O	-6.48	1.15	1.23
3	L	452	VAL	N-CA	-6.48	1.38	1.46
3	F	144	SER	CA-CB	-6.48	1.44	1.53
3	I	420	GLN	C-N	-6.48	1.24	1.33
3	R	143	ILE	CB-CG2	-6.48	1.31	1.52
3	Y	237	SER	CB-OG	-6.48	1.29	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	420	GLN	C-N	-6.48	1.24	1.33
3	7	144	SER	CA-CB	-6.48	1.44	1.53
3	R	444	PHE	CG-CD1	-6.48	1.25	1.38
3	Y	291	ARG	CD-NE	-6.48	1.37	1.46
3	L	82	LEU	C-O	-6.47	1.15	1.24
3	1	144	SER	CA-CB	-6.47	1.44	1.53
3	F	180	TRP	CD2-CE3	-6.47	1.29	1.40
3	L	180	TRP	CD2-CE3	-6.47	1.29	1.40
3	L	420	GLN	C-N	-6.47	1.24	1.33
3	L	303	THR	C-O	-6.47	1.15	1.23
3	1	159	PHE	CG-CD1	-6.47	1.25	1.38
3	C	444	PHE	CG-CD1	-6.47	1.25	1.38
3	O	16	THR	C-O	-6.47	1.14	1.23
3	O	444	PHE	CG-CD1	-6.47	1.25	1.38
3	C	143	ILE	CB-CG2	-6.47	1.31	1.52
3	U	477	PHE	CG-CD1	-6.47	1.25	1.38
3	C	420	GLN	C-N	-6.47	1.24	1.33
3	O	420	GLN	C-N	-6.47	1.24	1.33
3	1	237	SER	CB-OG	-6.47	1.29	1.42
3	4	444	PHE	CG-CD1	-6.47	1.25	1.38
3	F	532	ARG	NE-CZ	-6.46	1.25	1.33
3	O	143	ILE	CB-CG2	-6.46	1.31	1.52
3	O	477	PHE	CG-CD1	-6.46	1.25	1.38
3	1	143	ILE	CB-CG2	-6.46	1.31	1.52
3	I	144	SER	CA-CB	-6.46	1.44	1.53
3	I	82	LEU	C-O	-6.46	1.15	1.24
3	L	443	ARG	CD-NE	-6.46	1.37	1.46
3	R	477	PHE	CG-CD1	-6.46	1.25	1.38
3	4	180	TRP	CD2-CE3	-6.46	1.29	1.40
2	3	125	TYR	C-O	-6.46	1.16	1.24
3	4	477	PHE	CG-CD1	-6.46	1.25	1.38
3	7	420	GLN	C-N	-6.46	1.24	1.33
3	U	237	SER	CB-OG	-6.46	1.29	1.42
3	C	82	LEU	C-O	-6.46	1.15	1.24
3	L	532	ARG	NE-CZ	-6.46	1.25	1.33
3	V	443	ARG	CD-NE	-6.46	1.37	1.46
3	Y	143	ILE	CB-CG2	-6.46	1.31	1.52
3	7	143	ILE	CB-CG2	-6.46	1.31	1.52
3	U	291	ARG	CD-NE	-6.46	1.37	1.46
3	F	477	PHE	CG-CD1	-6.46	1.25	1.38
3	Y	452	VAL	N-CA	-6.46	1.38	1.46
3	C	237	SER	CB-OG	-6.45	1.29	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	477	PHE	CG-CD1	-6.45	1.25	1.38
3	R	82	LEU	C-O	-6.45	1.15	1.24
3	R	443	ARG	CD-NE	-6.45	1.37	1.46
3	Y	159	PHE	CG-CD1	-6.45	1.25	1.38
3	U	143	ILE	CB-CG2	-6.45	1.31	1.52
3	U	420	GLN	C-N	-6.45	1.24	1.33
3	Y	420	GLN	C-N	-6.45	1.24	1.33
3	C	159	PHE	CG-CD1	-6.45	1.25	1.38
3	C	291	ARG	CD-NE	-6.45	1.37	1.46
3	I	237	SER	CB-OG	-6.45	1.29	1.42
3	4	159	PHE	CG-CD1	-6.45	1.25	1.38
3	U	444	PHE	CG-CD1	-6.45	1.25	1.38
3	1	477	PHE	CG-CD1	-6.45	1.25	1.38
3	7	291	ARG	CD-NE	-6.45	1.37	1.46
3	C	303	THR	C-O	-6.45	1.15	1.23
3	R	237	SER	CB-OG	-6.45	1.29	1.42
3	R	452	VAL	N-CA	-6.45	1.38	1.46
3	4	452	VAL	N-CA	-6.45	1.38	1.46
3	I	477	PHE	CG-CD1	-6.44	1.25	1.38
3	V	477	PHE	CG-CD1	-6.44	1.25	1.38
3	L	237	SER	CB-OG	-6.44	1.29	1.42
3	O	39	TYR	C-O	-6.44	1.16	1.23
3	O	237	SER	CB-OG	-6.44	1.29	1.42
3	V	159	PHE	CG-CD1	-6.44	1.25	1.38
3	1	443	ARG	CD-NE	-6.44	1.37	1.46
3	F	82	LEU	C-O	-6.44	1.15	1.24
3	L	144	SER	CA-CB	-6.44	1.44	1.53
3	O	82	LEU	C-O	-6.44	1.15	1.24
3	V	237	SER	CB-OG	-6.44	1.29	1.42
3	1	291	ARG	CD-NE	-6.44	1.37	1.46
3	4	291	ARG	CD-NE	-6.44	1.37	1.46
3	U	532	ARG	NE-CZ	-6.44	1.25	1.33
3	I	159	PHE	CG-CD1	-6.44	1.25	1.38
3	1	452	VAL	N-CA	-6.44	1.38	1.46
3	7	159	PHE	CG-CD1	-6.44	1.25	1.38
3	1	82	LEU	C-O	-6.44	1.15	1.24
3	1	444	PHE	CG-CD1	-6.44	1.25	1.38
2	6	67	PRO	CB-CG	-6.44	1.17	1.49
3	C	477	PHE	CG-CD1	-6.44	1.25	1.38
3	F	159	PHE	CG-CD1	-6.44	1.25	1.38
3	I	257	GLU	CD-OE1	-6.44	1.13	1.25
3	V	144	SER	CA-CB	-6.44	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	82	LEU	C-O	-6.44	1.15	1.24
3	C	144	SER	CA-CB	-6.43	1.44	1.53
2	Q	125	TYR	C-O	-6.43	1.16	1.24
3	Y	144	SER	CA-CB	-6.43	1.44	1.53
3	7	444	PHE	CG-CD1	-6.43	1.25	1.38
3	L	444	PHE	CG-CD1	-6.43	1.25	1.38
3	O	291	ARG	CD-NE	-6.43	1.37	1.46
3	R	291	ARG	CD-NE	-6.43	1.37	1.46
2	0	67	PRO	CB-CG	-6.43	1.17	1.49
3	4	420	GLN	C-N	-6.43	1.24	1.33
3	L	39	TYR	C-O	-6.43	1.16	1.23
3	7	39	TYR	C-O	-6.43	1.16	1.23
3	O	443	ARG	CD-NE	-6.43	1.37	1.46
3	V	82	LEU	C-O	-6.43	1.15	1.24
2	X	67	PRO	CB-CG	-6.43	1.17	1.49
3	Y	477	PHE	CG-CD1	-6.43	1.25	1.38
3	4	443	ARG	CD-NE	-6.43	1.37	1.46
3	O	159	PHE	CG-CD1	-6.43	1.25	1.38
3	7	237	SER	CB-OG	-6.43	1.29	1.42
3	C	532	ARG	NE-CZ	-6.43	1.25	1.33
2	K	67	PRO	CB-CG	-6.43	1.17	1.49
3	R	144	SER	CA-CB	-6.43	1.44	1.53
2	H	67	PRO	CB-CG	-6.42	1.17	1.49
2	X	125	TYR	C-O	-6.42	1.16	1.24
3	1	39	TYR	C-O	-6.42	1.16	1.23
3	U	144	SER	CA-CB	-6.42	1.44	1.53
3	4	39	TYR	C-O	-6.42	1.16	1.23
2	B	67	PRO	CB-CG	-6.42	1.17	1.49
3	I	291	ARG	CD-NE	-6.42	1.37	1.46
2	N	67	PRO	CB-CG	-6.42	1.17	1.49
2	0	125	TYR	C-O	-6.42	1.16	1.24
3	V	452	VAL	N-CA	-6.42	1.38	1.46
3	4	257	GLU	CD-OE1	-6.42	1.13	1.25
2	9	125	TYR	C-O	-6.42	1.16	1.24
2	B	125	TYR	C-O	-6.42	1.16	1.24
3	C	443	ARG	CD-NE	-6.42	1.37	1.46
3	C	452	VAL	N-CA	-6.42	1.38	1.46
3	Y	553	VAL	CB-CG1	-6.42	1.31	1.52
3	F	443	ARG	CD-NE	-6.42	1.37	1.46
3	I	145	PRO	CG-CD	-6.42	1.28	1.50
2	Q	67	PRO	CB-CG	-6.42	1.17	1.49
2	T	67	PRO	CB-CG	-6.42	1.17	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	145	PRO	CG-CD	-6.42	1.28	1.50
2	3	67	PRO	CB-CG	-6.42	1.17	1.49
2	6	125	TYR	C-O	-6.42	1.16	1.24
3	7	452	VAL	N-CA	-6.42	1.38	1.46
3	O	144	SER	CA-CB	-6.42	1.44	1.53
3	7	532	ARG	NE-CZ	-6.42	1.25	1.33
2	E	67	PRO	CB-CG	-6.41	1.17	1.49
3	O	257	GLU	CD-OE1	-6.41	1.13	1.25
2	T	125	TYR	C-O	-6.41	1.16	1.24
3	7	257	GLU	CD-OE1	-6.41	1.13	1.25
3	7	477	PHE	CG-CD1	-6.41	1.25	1.38
3	U	443	ARG	CD-NE	-6.41	1.37	1.46
3	C	145	PRO	CG-CD	-6.41	1.28	1.50
3	F	237	SER	CB-OG	-6.41	1.29	1.42
3	I	39	TYR	C-O	-6.41	1.16	1.23
3	1	145	PRO	CG-CD	-6.41	1.28	1.50
3	4	532	ARG	NE-CZ	-6.41	1.25	1.33
2	9	67	PRO	CB-CG	-6.41	1.17	1.49
3	U	159	PHE	CG-CD1	-6.41	1.25	1.38
3	L	145	PRO	CG-CD	-6.41	1.28	1.50
3	L	257	GLU	CD-OE1	-6.41	1.13	1.25
3	7	145	PRO	CG-CD	-6.41	1.28	1.50
3	F	145	PRO	CG-CD	-6.41	1.28	1.50
3	L	159	PHE	CG-CD1	-6.41	1.25	1.38
3	L	291	ARG	CD-NE	-6.41	1.37	1.46
3	4	63	ARG	CZ-NH2	-6.41	1.25	1.33
3	I	532	ARG	NE-CZ	-6.41	1.26	1.33
2	N	125	TYR	C-O	-6.41	1.16	1.24
3	V	39	TYR	C-O	-6.41	1.16	1.23
3	V	121	THR	CB-CG2	-6.41	1.31	1.52
3	V	532	ARG	NE-CZ	-6.41	1.26	1.33
3	7	63	ARG	CZ-NH2	-6.41	1.25	1.33
3	7	553	VAL	CB-CG1	-6.41	1.31	1.52
2	E	125	TYR	C-O	-6.40	1.16	1.24
3	I	452	VAL	N-CA	-6.40	1.38	1.46
3	O	532	ARG	NE-CZ	-6.40	1.26	1.33
3	C	39	TYR	C-O	-6.40	1.16	1.23
3	L	121	THR	CB-CG2	-6.40	1.31	1.52
3	O	145	PRO	CG-CD	-6.40	1.28	1.50
3	O	303	THR	C-O	-6.40	1.15	1.23
3	R	257	GLU	CD-OE1	-6.40	1.13	1.25
3	F	452	VAL	N-CA	-6.40	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	63	ARG	CZ-NH2	-6.40	1.25	1.33
3	V	257	GLU	CD-OE1	-6.40	1.13	1.25
3	Y	39	TYR	C-O	-6.40	1.16	1.23
3	Y	145	PRO	CG-CD	-6.40	1.28	1.50
3	7	443	ARG	CD-NE	-6.40	1.37	1.46
3	I	553	VAL	CB-CG1	-6.40	1.31	1.52
3	Y	121	THR	CB-CG2	-6.40	1.31	1.52
3	Y	443	ARG	CD-NE	-6.40	1.37	1.46
3	4	121	THR	CB-CG2	-6.40	1.31	1.52
3	C	257	GLU	CD-OE1	-6.40	1.13	1.25
3	4	145	PRO	CG-CD	-6.40	1.29	1.50
3	U	553	VAL	CB-CG1	-6.39	1.31	1.52
3	L	553	VAL	CB-CG1	-6.39	1.31	1.52
3	R	371	ARG	CB-CG	-6.39	1.33	1.52
3	7	371	ARG	CB-CG	-6.39	1.33	1.52
3	U	121	THR	CB-CG2	-6.39	1.31	1.52
3	U	452	VAL	N-CA	-6.39	1.38	1.46
3	C	121	THR	CB-CG2	-6.39	1.31	1.52
3	I	63	ARG	CZ-NH2	-6.39	1.25	1.33
3	V	252	THR	C-O	-6.39	1.15	1.23
3	C	553	VAL	CB-CG1	-6.39	1.31	1.52
3	F	371	ARG	CB-CG	-6.39	1.33	1.52
3	F	553	VAL	CB-CG1	-6.39	1.31	1.52
2	H	125	TYR	C-O	-6.39	1.16	1.24
3	L	371	ARG	CB-CG	-6.39	1.33	1.52
3	R	63	ARG	CZ-NH2	-6.39	1.25	1.33
3	U	145	PRO	CG-CD	-6.39	1.29	1.50
3	U	257	GLU	CD-OE1	-6.39	1.13	1.25
3	I	121	THR	CB-CG2	-6.39	1.31	1.52
3	R	39	TYR	C-O	-6.39	1.16	1.23
3	R	145	PRO	CG-CD	-6.39	1.29	1.50
3	1	121	THR	CB-CG2	-6.39	1.31	1.52
3	7	121	THR	CB-CG2	-6.39	1.31	1.52
3	4	553	VAL	CB-CG1	-6.38	1.31	1.52
3	O	121	THR	CB-CG2	-6.38	1.31	1.52
3	I	371	ARG	CB-CG	-6.38	1.33	1.52
2	K	125	TYR	C-O	-6.38	1.16	1.24
3	Y	532	ARG	NE-CZ	-6.38	1.26	1.33
3	U	371	ARG	CB-CG	-6.38	1.33	1.52
3	C	63	ARG	CZ-NH2	-6.38	1.25	1.33
3	V	371	ARG	CB-CG	-6.38	1.33	1.52
3	Y	168	ASP	C-N	-6.38	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	39	TYR	C-O	-6.38	1.16	1.23
3	F	121	THR	CB-CG2	-6.38	1.31	1.52
3	F	63	ARG	CZ-NH2	-6.38	1.25	1.33
3	F	257	GLU	CD-OE1	-6.38	1.13	1.25
3	L	17	THR	C-O	-6.38	1.16	1.23
3	L	359	ILE	CG1-CD1	-6.38	1.26	1.51
3	O	452	VAL	N-CA	-6.38	1.38	1.46
3	R	359	ILE	CG1-CD1	-6.38	1.26	1.51
3	R	553	VAL	CB-CG1	-6.38	1.31	1.52
3	1	303	THR	C-O	-6.38	1.15	1.23
3	O	553	VAL	CB-CG1	-6.38	1.31	1.52
3	R	121	THR	CB-CG2	-6.38	1.31	1.52
3	Y	343	ARG	CZ-NH2	-6.38	1.25	1.33
3	1	343	ARG	CZ-NH2	-6.38	1.25	1.33
3	C	371	ARG	CB-CG	-6.37	1.33	1.52
3	O	371	ARG	CB-CG	-6.37	1.33	1.52
3	Y	371	ARG	CB-CG	-6.37	1.33	1.52
3	4	371	ARG	CB-CG	-6.37	1.33	1.52
3	U	300	PRO	C-N	-6.37	1.24	1.33
3	R	343	ARG	CZ-NH2	-6.37	1.25	1.33
3	V	553	VAL	CB-CG1	-6.37	1.31	1.52
1	5	23	ARG	CG-CD	-6.37	1.33	1.52
3	U	343	ARG	CZ-NH2	-6.37	1.25	1.33
3	L	168	ASP	C-N	-6.37	1.26	1.33
3	V	17	THR	C-O	-6.37	1.16	1.23
3	1	252	THR	C-O	-6.37	1.15	1.23
3	4	359	ILE	CG1-CD1	-6.37	1.26	1.51
3	I	17	THR	C-O	-6.37	1.16	1.23
3	I	125	SER	CB-OG	-6.37	1.29	1.42
3	O	17	THR	C-O	-6.37	1.16	1.23
3	1	359	ILE	CG1-CD1	-6.37	1.26	1.51
3	1	553	VAL	CB-CG1	-6.37	1.31	1.52
3	U	39	TYR	C-O	-6.37	1.16	1.23
3	O	252	THR	C-O	-6.36	1.15	1.23
1	Z	23	ARG	CG-CD	-6.36	1.33	1.52
3	1	257	GLU	CD-OE1	-6.36	1.13	1.25
3	1	532	ARG	NE-CZ	-6.36	1.26	1.33
3	O	359	ILE	CG1-CD1	-6.36	1.26	1.51
2	X	105	PHE	CE1-CZ	-6.36	1.19	1.38
3	7	343	ARG	CZ-NH2	-6.36	1.25	1.33
1	G	63	VAL	CB-CG2	-6.36	1.31	1.52
3	I	359	ILE	CG1-CD1	-6.36	1.26	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	257	GLU	CD-OE1	-6.36	1.13	1.25
3	1	70	LEU	CB-CG	-6.36	1.40	1.53
3	V	300	PRO	C-N	-6.36	1.24	1.33
3	1	371	ARG	CB-CG	-6.36	1.33	1.52
3	C	343	ARG	CZ-NH2	-6.36	1.25	1.33
2	H	105	PHE	CE1-CZ	-6.36	1.19	1.38
3	I	443	ARG	CD-NE	-6.36	1.37	1.46
1	P	23	ARG	CG-CD	-6.36	1.33	1.52
3	Y	63	ARG	CZ-NH2	-6.36	1.25	1.33
3	Y	359	ILE	CG1-CD1	-6.36	1.26	1.51
3	C	359	ILE	CG1-CD1	-6.36	1.26	1.51
3	V	359	ILE	CG1-CD1	-6.36	1.26	1.51
3	1	58	ASN	N-CA	-6.36	1.38	1.46
1	D	63	VAL	CB-CG2	-6.35	1.31	1.52
3	I	300	PRO	C-N	-6.35	1.24	1.33
3	O	168	ASP	C-N	-6.35	1.26	1.33
3	F	220	GLY	N-CA	-6.35	1.35	1.45
1	J	63	VAL	CB-CG2	-6.35	1.31	1.52
3	L	343	ARG	CZ-NH2	-6.35	1.25	1.33
2	N	105	PHE	CE1-CZ	-6.35	1.19	1.38
3	O	343	ARG	CZ-NH2	-6.35	1.25	1.33
3	R	252	THR	C-O	-6.35	1.15	1.23
3	1	220	GLY	N-CA	-6.35	1.35	1.45
3	7	359	ILE	CG1-CD1	-6.35	1.26	1.51
1	8	23	ARG	CG-CD	-6.35	1.33	1.52
3	L	63	ARG	CZ-NH2	-6.35	1.25	1.33
3	1	300	PRO	C-N	-6.35	1.24	1.33
2	E	105	PHE	CE1-CZ	-6.35	1.19	1.38
2	K	105	PHE	CE1-CZ	-6.35	1.19	1.38
3	L	221	TYR	CE1-CZ	-6.35	1.23	1.38
2	0	105	PHE	CE1-CZ	-6.35	1.19	1.38
1	A	23	ARG	CG-CD	-6.34	1.33	1.52
3	F	359	ILE	CG1-CD1	-6.34	1.27	1.51
1	G	23	ARG	CG-CD	-6.34	1.33	1.52
3	I	343	ARG	CZ-NH2	-6.34	1.25	1.33
3	Y	70	LEU	CB-CG	-6.34	1.40	1.53
3	7	220	GLY	N-CA	-6.34	1.35	1.45
3	U	252	THR	C-O	-6.34	1.15	1.23
2	B	105	PHE	CE1-CZ	-6.34	1.19	1.38
1	M	23	ARG	CG-CD	-6.34	1.33	1.52
3	V	70	LEU	CB-CG	-6.34	1.40	1.53
3	1	221	TYR	CE1-CZ	-6.34	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	23	ARG	CG-CD	-6.34	1.33	1.52
2	3	105	PHE	CE1-CZ	-6.34	1.19	1.38
3	U	359	ILE	CG1-CD1	-6.34	1.27	1.51
3	F	17	THR	C-O	-6.34	1.16	1.23
1	P	63	VAL	CB-CG2	-6.34	1.31	1.52
1	S	23	ARG	CG-CD	-6.34	1.33	1.52
3	4	220	GLY	N-CA	-6.34	1.35	1.45
2	9	105	PHE	CE1-CZ	-6.34	1.19	1.38
3	U	70	LEU	CB-CG	-6.34	1.40	1.53
1	A	63	VAL	CB-CG2	-6.34	1.31	1.52
3	I	252	THR	C-O	-6.34	1.15	1.23
2	6	105	PHE	CE1-CZ	-6.34	1.19	1.38
3	1	63	ARG	CZ-NH2	-6.34	1.25	1.33
3	4	252	THR	C-O	-6.34	1.15	1.23
3	C	252	THR	C-O	-6.34	1.15	1.23
3	F	125	SER	CB-OG	-6.34	1.29	1.42
3	F	252	THR	C-O	-6.34	1.15	1.23
3	O	300	PRO	C-N	-6.34	1.24	1.33
3	1	168	ASP	C-N	-6.34	1.26	1.33
3	7	125	SER	CB-OG	-6.34	1.29	1.42
3	O	125	SER	CB-OG	-6.33	1.29	1.42
1	S	63	VAL	CB-CG2	-6.33	1.31	1.52
3	C	17	THR	C-O	-6.33	1.16	1.23
1	M	63	VAL	CB-CG2	-6.33	1.31	1.52
2	Q	105	PHE	CE1-CZ	-6.33	1.19	1.38
3	R	221	TYR	CE1-CZ	-6.33	1.23	1.38
2	T	105	PHE	CE1-CZ	-6.33	1.19	1.38
3	V	125	SER	CB-OG	-6.33	1.29	1.42
3	4	221	TYR	CE1-CZ	-6.33	1.23	1.38
1	5	63	VAL	CB-CG2	-6.33	1.31	1.52
3	7	17	THR	C-O	-6.33	1.16	1.23
1	8	63	VAL	CB-CG2	-6.33	1.31	1.52
3	U	221	TYR	CE1-CZ	-6.33	1.23	1.38
3	O	220	GLY	N-CA	-6.33	1.35	1.45
1	W	23	ARG	CG-CD	-6.33	1.33	1.52
1	2	63	VAL	CB-CG2	-6.33	1.31	1.52
3	Y	221	TYR	CE1-CZ	-6.33	1.23	1.38
3	U	220	GLY	N-CA	-6.33	1.35	1.45
3	F	343	ARG	CZ-NH2	-6.33	1.25	1.33
3	I	443	ARG	CZ-NH2	-6.33	1.25	1.33
3	R	17	THR	C-O	-6.33	1.16	1.23
3	7	168	ASP	C-N	-6.33	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	18	GLY	C-O	-6.33	1.14	1.24
3	7	252	THR	C-O	-6.33	1.15	1.23
3	U	125	SER	CB-OG	-6.33	1.29	1.42
1	D	23	ARG	CG-CD	-6.33	1.33	1.52
1	Z	63	VAL	CB-CG2	-6.33	1.31	1.52
3	4	70	LEU	CB-CG	-6.33	1.40	1.53
3	4	460	TRP	CE3-CZ3	-6.33	1.19	1.38
3	C	70	LEU	CB-CG	-6.32	1.40	1.53
1	J	23	ARG	CG-CD	-6.32	1.33	1.52
1	W	63	VAL	CB-CG2	-6.32	1.31	1.52
3	Y	17	THR	C-O	-6.32	1.16	1.23
3	Y	252	THR	C-O	-6.32	1.15	1.23
3	7	70	LEU	CB-CG	-6.32	1.40	1.53
3	U	63	ARG	CZ-NH2	-6.32	1.25	1.33
3	C	300	PRO	C-N	-6.32	1.24	1.33
3	L	443	ARG	CZ-NH2	-6.32	1.25	1.33
3	R	460	TRP	CE3-CZ3	-6.32	1.19	1.38
3	U	17	THR	C-O	-6.32	1.16	1.23
3	F	70	LEU	CB-CG	-6.32	1.40	1.53
3	L	70	LEU	CB-CG	-6.32	1.40	1.53
3	R	300	PRO	C-N	-6.32	1.24	1.33
3	4	343	ARG	CZ-NH2	-6.32	1.25	1.33
3	C	125	SER	CB-OG	-6.32	1.29	1.42
3	C	221	TYR	CE1-CZ	-6.32	1.23	1.38
3	I	221	TYR	CE1-CZ	-6.32	1.23	1.38
3	I	223	VAL	CB-CG2	-6.32	1.31	1.52
3	I	380	MET	C-N	-6.32	1.25	1.33
3	V	490[A]	GLN	N-CA	-6.32	1.38	1.46
3	V	490[B]	GLN	N-CA	-6.32	1.38	1.46
3	C	220	GLY	N-CA	-6.32	1.35	1.45
3	L	252	THR	C-O	-6.32	1.15	1.23
3	R	223	VAL	CB-CG2	-6.32	1.31	1.52
3	V	220	GLY	N-CA	-6.32	1.35	1.45
3	V	223	VAL	CB-CG2	-6.32	1.31	1.52
3	Y	380	MET	C-N	-6.31	1.25	1.33
3	F	460	TRP	CE3-CZ3	-6.31	1.19	1.38
3	R	490[A]	GLN	N-CA	-6.31	1.38	1.46
3	R	490[B]	GLN	N-CA	-6.31	1.38	1.46
3	I	220	GLY	N-CA	-6.31	1.35	1.45
3	L	125	SER	CB-OG	-6.31	1.29	1.42
3	L	220	GLY	N-CA	-6.31	1.35	1.45
3	O	221	TYR	CE1-CZ	-6.31	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	460	TRP	CE3-CZ3	-6.31	1.19	1.38
3	V	63	ARG	CZ-NH2	-6.31	1.25	1.33
3	C	490[A]	GLN	N-CA	-6.31	1.38	1.46
3	C	490[B]	GLN	N-CA	-6.31	1.38	1.46
3	R	125	SER	CB-OG	-6.31	1.29	1.42
3	R	443	ARG	CZ-NH2	-6.31	1.25	1.33
3	V	343	ARG	CZ-NH2	-6.31	1.25	1.33
3	Y	460	TRP	CE3-CZ3	-6.31	1.19	1.38
3	1	125	SER	CB-OG	-6.31	1.29	1.42
3	7	221	TYR	CE1-CZ	-6.31	1.23	1.38
3	F	58	ASN	N-CA	-6.31	1.38	1.46
3	Y	300	PRO	C-N	-6.31	1.24	1.33
3	1	223	VAL	CB-CG2	-6.31	1.31	1.52
3	7	45	TYR	CE2-CZ	-6.31	1.23	1.38
3	F	221	TYR	CE1-CZ	-6.30	1.23	1.38
3	I	70	LEU	CB-CG	-6.30	1.40	1.53
3	1	460	TRP	CE3-CZ3	-6.30	1.19	1.38
3	7	460	TRP	CE3-CZ3	-6.30	1.19	1.38
3	F	223	VAL	CB-CG2	-6.30	1.31	1.52
3	R	303	THR	C-O	-6.30	1.15	1.23
3	7	490[A]	GLN	N-CA	-6.30	1.38	1.46
3	7	490[B]	GLN	N-CA	-6.30	1.38	1.46
3	C	223	VAL	CB-CG2	-6.30	1.31	1.52
3	C	460	TRP	CE3-CZ3	-6.30	1.19	1.38
3	R	197	GLY	C-N	-6.30	1.24	1.33
3	7	380	MET	C-N	-6.30	1.25	1.33
3	C	168	ASP	C-N	-6.30	1.26	1.33
3	U	58	ASN	N-CA	-6.30	1.38	1.46
3	U	223	VAL	CB-CG2	-6.30	1.31	1.52
3	U	380	MET	C-N	-6.30	1.25	1.33
3	F	300	PRO	C-N	-6.30	1.24	1.33
3	4	125	SER	CB-OG	-6.30	1.29	1.42
3	O	70	LEU	CB-CG	-6.30	1.40	1.53
3	V	221	TYR	CE1-CZ	-6.30	1.23	1.38
3	Y	223	VAL	CB-CG2	-6.30	1.31	1.52
3	O	416	PRO	CG-CD	-6.29	1.29	1.50
3	Y	220	GLY	N-CA	-6.29	1.35	1.45
3	Y	416	PRO	CG-CD	-6.29	1.29	1.50
3	C	380	MET	C-N	-6.29	1.25	1.33
3	I	416	PRO	CG-CD	-6.29	1.29	1.50
3	4	17	THR	C-O	-6.29	1.16	1.23
3	7	223	VAL	CB-CG2	-6.29	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	U	416	PRO	CG-CD	-6.29	1.29	1.50
3	U	460	TRP	CE3-CZ3	-6.29	1.19	1.38
3	O	18	GLY	C-O	-6.29	1.14	1.24
3	R	58	ASN	N-CA	-6.29	1.38	1.46
3	Y	58	ASN	N-CA	-6.29	1.38	1.46
3	Y	125	SER	CB-OG	-6.29	1.29	1.42
3	1	416	PRO	CG-CD	-6.29	1.29	1.50
3	4	223	VAL	CB-CG2	-6.29	1.31	1.52
3	L	490[A]	GLN	N-CA	-6.29	1.38	1.46
3	L	490[B]	GLN	N-CA	-6.29	1.38	1.46
3	O	380	MET	C-N	-6.29	1.25	1.33
3	4	65	ASN	CG-ND2	-6.29	1.20	1.33
3	4	300	PRO	C-N	-6.29	1.24	1.33
3	7	416	PRO	CG-CD	-6.29	1.29	1.50
3	R	65	ASN	CG-ND2	-6.29	1.20	1.33
3	V	370	GLY	C-O	-6.29	1.15	1.23
3	V	460	TRP	CE3-CZ3	-6.29	1.19	1.38
3	V	416	PRO	CG-CD	-6.29	1.29	1.50
3	1	17	THR	C-O	-6.29	1.16	1.23
3	4	370	GLY	C-O	-6.29	1.15	1.23
3	7	65	ASN	CG-ND2	-6.29	1.20	1.33
3	C	416	PRO	CG-CD	-6.29	1.29	1.50
3	F	416	PRO	CG-CD	-6.29	1.29	1.50
3	I	460	TRP	CE3-CZ3	-6.29	1.19	1.38
3	L	223	VAL	CB-CG2	-6.29	1.31	1.52
3	L	460	TRP	CE3-CZ3	-6.29	1.19	1.38
3	O	223	VAL	CB-CG2	-6.29	1.31	1.52
3	V	443	ARG	CZ-NH2	-6.29	1.25	1.33
3	C	58	ASN	N-CA	-6.28	1.38	1.46
3	R	70	LEU	CB-CG	-6.28	1.40	1.53
3	4	18	GLY	C-O	-6.28	1.14	1.24
3	U	22	ARG	CG-CD	-6.28	1.33	1.52
3	F	18	GLY	C-O	-6.28	1.14	1.24
3	Y	65	ASN	CG-ND2	-6.28	1.20	1.33
3	4	380	MET	C-N	-6.28	1.25	1.33
3	4	443	ARG	CZ-NH2	-6.28	1.25	1.33
3	C	18	GLY	C-O	-6.28	1.14	1.24
3	L	45	TYR	CE2-CZ	-6.28	1.23	1.38
3	L	300	PRO	C-N	-6.28	1.24	1.33
3	O	45	TYR	CE2-CZ	-6.28	1.23	1.38
3	Y	490[A]	GLN	N-CA	-6.28	1.38	1.46
3	Y	490[B]	GLN	N-CA	-6.28	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	65	ASN	CG-ND2	-6.28	1.20	1.33
3	1	92	ARG	CD-NE	-6.28	1.37	1.46
3	C	45	TYR	CE2-CZ	-6.28	1.23	1.38
3	I	18	GLY	C-O	-6.28	1.14	1.24
3	L	416	PRO	CG-CD	-6.28	1.29	1.50
3	O	65	ASN	CG-ND2	-6.28	1.20	1.33
3	O	490[A]	GLN	N-CA	-6.28	1.38	1.46
3	O	490[B]	GLN	N-CA	-6.28	1.38	1.46
3	C	65	ASN	CG-ND2	-6.28	1.20	1.33
3	F	380	MET	C-N	-6.28	1.25	1.33
3	R	18	GLY	C-O	-6.28	1.14	1.24
3	R	45	TYR	CE2-CZ	-6.28	1.23	1.38
3	U	168	ASP	C-N	-6.28	1.26	1.33
3	L	197	GLY	C-N	-6.27	1.24	1.33
3	1	460	TRP	CE2-CZ2	-6.27	1.26	1.39
3	4	22	ARG	CG-CD	-6.27	1.33	1.52
3	C	443	ARG	CZ-NH2	-6.27	1.25	1.33
3	F	168	ASP	C-N	-6.27	1.26	1.33
3	L	65	ASN	CG-ND2	-6.27	1.20	1.33
3	1	45	TYR	CE2-CZ	-6.27	1.23	1.38
3	F	65	ASN	CG-ND2	-6.27	1.20	1.33
3	I	22	ARG	CG-CD	-6.27	1.33	1.52
3	Y	45	TYR	CE2-CZ	-6.27	1.23	1.38
3	4	416	PRO	CG-CD	-6.27	1.29	1.50
3	U	197	GLY	C-N	-6.27	1.24	1.33
3	U	443	ARG	CZ-NH2	-6.27	1.25	1.33
3	I	168	ASP	C-N	-6.27	1.26	1.33
3	L	58	ASN	N-CA	-6.27	1.38	1.46
3	R	416	PRO	CG-CD	-6.27	1.29	1.50
3	V	303	THR	C-O	-6.27	1.15	1.23
3	4	45	TYR	CE2-CZ	-6.27	1.23	1.38
3	U	45	TYR	CE2-CZ	-6.27	1.23	1.38
3	U	92	ARG	CD-NE	-6.27	1.37	1.46
3	L	22	ARG	CG-CD	-6.27	1.33	1.52
3	R	220	GLY	N-CA	-6.27	1.35	1.45
3	1	180	TRP	CZ2-CH2	-6.27	1.25	1.37
3	I	45	TYR	CE2-CZ	-6.26	1.23	1.38
3	O	58	ASN	N-CA	-6.26	1.38	1.46
3	V	22	ARG	CG-CD	-6.26	1.33	1.52
3	Y	197	GLY	C-N	-6.26	1.24	1.33
3	C	22	ARG	CG-CD	-6.26	1.33	1.52
3	V	168	ASP	C-N	-6.26	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	22	ARG	CG-CD	-6.26	1.33	1.52
3	1	197	GLY	C-N	-6.26	1.24	1.33
3	4	460	TRP	CE2-CZ2	-6.26	1.26	1.39
3	7	22	ARG	CG-CD	-6.26	1.33	1.52
3	U	18	GLY	C-O	-6.26	1.14	1.24
3	U	180	TRP	CZ2-CH2	-6.26	1.25	1.37
3	U	460	TRP	CE2-CZ2	-6.26	1.26	1.39
3	O	443	ARG	CZ-NH2	-6.26	1.25	1.33
3	V	380	MET	C-N	-6.26	1.25	1.33
3	Y	18	GLY	C-O	-6.26	1.14	1.24
3	Y	443	ARG	CZ-NH2	-6.26	1.25	1.33
3	7	18	GLY	C-O	-6.26	1.14	1.24
3	U	65	ASN	CG-ND2	-6.26	1.20	1.33
3	U	490[A]	GLN	N-CA	-6.26	1.38	1.46
3	U	490[B]	GLN	N-CA	-6.26	1.38	1.46
3	V	45	TYR	CE2-CZ	-6.26	1.23	1.38
1	5	51	LYS	CG-CD	-6.26	1.33	1.52
3	O	22	ARG	CG-CD	-6.26	1.33	1.52
3	Y	460	TRP	CE2-CZ2	-6.26	1.26	1.39
3	1	443	ARG	CZ-NH2	-6.26	1.25	1.33
3	1	490[A]	GLN	N-CA	-6.26	1.38	1.46
3	1	490[B]	GLN	N-CA	-6.26	1.38	1.46
3	4	490[A]	GLN	N-CA	-6.25	1.38	1.46
3	4	490[B]	GLN	N-CA	-6.25	1.38	1.46
3	L	380	MET	C-N	-6.25	1.25	1.33
3	R	168	ASP	C-N	-6.25	1.26	1.33
3	4	168	ASP	C-N	-6.25	1.26	1.33
3	F	22	ARG	CG-CD	-6.25	1.33	1.52
3	R	22	ARG	CG-CD	-6.25	1.33	1.52
3	1	380	MET	C-N	-6.25	1.25	1.33
3	L	18	GLY	C-O	-6.25	1.14	1.24
3	C	197	GLY	C-N	-6.25	1.24	1.33
3	F	303	THR	C-O	-6.25	1.15	1.23
3	I	65	ASN	CG-ND2	-6.25	1.20	1.33
3	I	92	ARG	CD-NE	-6.25	1.37	1.46
1	J	51	LYS	CG-CD	-6.25	1.33	1.52
3	V	65	ASN	CG-ND2	-6.25	1.20	1.33
3	V	197	GLY	C-N	-6.25	1.24	1.33
3	1	22	ARG	CG-CD	-6.25	1.33	1.52
1	2	51	LYS	CG-CD	-6.25	1.33	1.52
3	4	180	TRP	CZ2-CH2	-6.25	1.25	1.37
3	7	300	PRO	C-N	-6.25	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	51	LYS	CG-CD	-6.25	1.33	1.52
3	C	92	ARG	CD-NE	-6.25	1.37	1.46
3	F	45	TYR	CE2-CZ	-6.25	1.23	1.38
3	F	180	TRP	CZ2-CH2	-6.25	1.25	1.37
3	I	490[A]	GLN	N-CA	-6.25	1.38	1.46
3	I	490[B]	GLN	N-CA	-6.25	1.38	1.46
1	P	51	LYS	CG-CD	-6.25	1.33	1.52
3	R	380	MET	C-N	-6.25	1.25	1.33
3	V	58	ASN	N-CA	-6.25	1.38	1.46
3	I	58	ASN	N-CA	-6.25	1.38	1.46
3	4	58	ASN	N-CA	-6.25	1.38	1.46
3	L	92	ARG	CD-NE	-6.24	1.37	1.46
1	M	51	LYS	CG-CD	-6.24	1.33	1.52
3	4	92	ARG	CD-NE	-6.24	1.37	1.46
3	4	197	GLY	C-N	-6.24	1.24	1.33
3	7	180	TRP	CZ2-CH2	-6.24	1.25	1.37
3	C	460	TRP	CE2-CZ2	-6.24	1.26	1.39
1	A	51	LYS	CG-CD	-6.24	1.33	1.52
1	D	51	LYS	CG-CD	-6.24	1.33	1.52
3	F	197	GLY	C-N	-6.24	1.24	1.33
3	I	460	TRP	CE2-CZ2	-6.24	1.26	1.39
3	L	460	TRP	CE2-CZ2	-6.24	1.26	1.39
3	O	460	TRP	CE2-CZ2	-6.24	1.26	1.39
3	O	197	GLY	C-N	-6.24	1.24	1.33
1	Z	51	LYS	CG-CD	-6.24	1.33	1.52
3	7	58	ASN	N-CA	-6.24	1.38	1.46
3	7	370	GLY	C-O	-6.24	1.15	1.23
3	C	180	TRP	CZ2-CH2	-6.23	1.25	1.37
3	R	460	TRP	CE2-CZ2	-6.23	1.26	1.39
3	V	18	GLY	C-O	-6.23	1.14	1.24
1	W	51	LYS	CG-CD	-6.23	1.33	1.52
1	S	51	LYS	CG-CD	-6.23	1.33	1.52
3	I	180	TRP	CZ2-CH2	-6.23	1.25	1.37
3	I	303	THR	C-O	-6.23	1.15	1.23
3	V	460	TRP	CE2-CZ2	-6.23	1.26	1.39
3	7	460	TRP	CE2-CZ2	-6.23	1.26	1.39
1	G	51	LYS	CG-CD	-6.23	1.33	1.52
3	I	197	GLY	C-N	-6.23	1.24	1.33
3	7	92	ARG	CD-NE	-6.22	1.37	1.46
3	O	92	ARG	CD-NE	-6.22	1.37	1.46
3	7	443	ARG	CZ-NH2	-6.22	1.25	1.33
3	F	460	TRP	CE2-CZ2	-6.22	1.26	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	180	TRP	CZ2-CH2	-6.22	1.25	1.37
3	I	370	GLY	C-O	-6.22	1.15	1.23
3	F	443	ARG	CZ-NH2	-6.22	1.25	1.33
3	F	490[A]	GLN	N-CA	-6.22	1.38	1.46
3	F	490[B]	GLN	N-CA	-6.22	1.38	1.46
3	R	180	TRP	CZ2-CH2	-6.22	1.25	1.37
3	C	370	GLY	C-O	-6.21	1.15	1.23
3	Y	370	GLY	C-O	-6.21	1.15	1.23
3	Y	221	TYR	CG-CD1	-6.21	1.26	1.39
3	V	92	ARG	CD-NE	-6.21	1.37	1.46
3	1	221	TYR	CG-CD1	-6.21	1.26	1.39
3	U	370	GLY	C-O	-6.21	1.15	1.23
3	L	180	TRP	CZ2-CH2	-6.20	1.25	1.37
3	7	154	ASN	C-N	-6.20	1.25	1.33
2	Q	98	SER	CB-OG	-6.20	1.29	1.42
3	Y	29	PHE	CE1-CZ	-6.20	1.20	1.38
3	Y	154	ASN	C-N	-6.20	1.25	1.33
3	Y	180	TRP	CZ2-CH2	-6.20	1.25	1.37
3	7	197	GLY	C-N	-6.20	1.24	1.33
3	1	29	PHE	CE1-CZ	-6.20	1.20	1.38
3	C	212	GLU	C-O	-6.20	1.16	1.24
3	R	29	PHE	CE1-CZ	-6.20	1.20	1.38
3	4	221	TYR	CG-CD1	-6.20	1.26	1.39
3	7	221	TYR	CG-CD1	-6.19	1.26	1.39
3	F	92	ARG	CD-NE	-6.19	1.37	1.46
3	O	180	TRP	CZ2-CH2	-6.19	1.25	1.37
3	R	370	GLY	C-O	-6.19	1.15	1.23
1	5	31	ASN	C-N	-6.19	1.20	1.33
3	C	221	TYR	CG-CD1	-6.19	1.26	1.39
3	O	154	ASN	C-N	-6.19	1.25	1.33
2	9	98	SER	CB-OG	-6.19	1.29	1.42
3	O	29	PHE	CE1-CZ	-6.19	1.20	1.38
3	V	221	TYR	CG-CD1	-6.19	1.26	1.39
3	R	92	ARG	CD-NE	-6.18	1.37	1.46
3	L	370	GLY	C-O	-6.18	1.15	1.23
3	O	370	GLY	C-O	-6.18	1.15	1.23
1	Z	31	ASN	C-N	-6.18	1.20	1.33
3	C	29	PHE	CE1-CZ	-6.18	1.20	1.38
3	F	29	PHE	CE1-CZ	-6.18	1.20	1.38
3	F	221	TYR	CG-CD1	-6.18	1.26	1.39
2	T	98	SER	CB-OG	-6.18	1.29	1.42
2	6	98	SER	CB-OG	-6.18	1.29	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	403	PHE	CD1-CE1	-6.18	1.20	1.38
3	I	403	PHE	CD1-CE1	-6.18	1.20	1.38
2	K	98	SER	CB-OG	-6.18	1.29	1.42
3	R	221	TYR	CG-CD1	-6.18	1.26	1.39
3	7	29	PHE	CE1-CZ	-6.18	1.20	1.38
2	K	134	TRP	CD2-CE2	-6.17	1.30	1.41
3	O	221	TYR	CG-CD1	-6.17	1.26	1.39
2	X	98	SER	CB-OG	-6.17	1.29	1.42
3	Y	92	ARG	CD-NE	-6.17	1.37	1.46
3	U	29	PHE	CE1-CZ	-6.17	1.20	1.38
3	L	29	PHE	CE1-CZ	-6.17	1.20	1.38
3	L	403	PHE	CD1-CE1	-6.17	1.20	1.38
3	R	154	ASN	C-N	-6.17	1.25	1.33
3	7	403	PHE	CD1-CE1	-6.17	1.20	1.38
3	U	403	PHE	CD1-CE1	-6.17	1.20	1.38
3	V	29	PHE	CE1-CZ	-6.17	1.20	1.38
3	Y	403	PHE	CD1-CE1	-6.17	1.20	1.38
3	1	403	PHE	CD1-CE1	-6.17	1.20	1.38
3	4	29	PHE	CE1-CZ	-6.17	1.20	1.38
3	4	154	ASN	C-N	-6.17	1.25	1.33
3	4	403	PHE	CD1-CE1	-6.17	1.20	1.38
2	B	98	SER	CB-OG	-6.17	1.29	1.42
3	C	403	PHE	CD1-CE1	-6.17	1.20	1.38
3	F	97	ALA	C-N	-6.17	1.24	1.33
3	I	29	PHE	CE1-CZ	-6.17	1.20	1.38
3	1	97	ALA	C-N	-6.17	1.24	1.33
2	E	134	TRP	CD2-CE2	-6.17	1.30	1.41
3	F	343	ARG	CG-CD	-6.17	1.33	1.52
2	0	98	SER	CB-OG	-6.17	1.29	1.42
3	L	97	ALA	C-N	-6.16	1.24	1.33
2	0	134	TRP	CD2-CE2	-6.16	1.30	1.41
3	7	343	ARG	CG-CD	-6.16	1.33	1.52
2	H	98	SER	CB-OG	-6.16	1.29	1.42
2	H	134	TRP	CD2-CE2	-6.16	1.30	1.41
2	Q	134	TRP	CD2-CE2	-6.16	1.30	1.41
2	X	87	ARG	CZ-NH1	-6.16	1.24	1.32
2	E	87	ARG	CZ-NH1	-6.16	1.24	1.32
3	F	465	ASP	C-O	-6.16	1.16	1.24
3	V	97	ALA	C-N	-6.16	1.24	1.33
3	V	403	PHE	CD1-CE1	-6.16	1.20	1.38
1	2	31	ASN	C-N	-6.16	1.20	1.33
3	R	343	ARG	CG-CD	-6.16	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	134	TRP	CD2-CE2	-6.16	1.30	1.41
3	I	154	ASN	C-N	-6.16	1.25	1.33
3	O	403	PHE	CD1-CE1	-6.16	1.20	1.38
3	V	154	ASN	C-N	-6.16	1.25	1.33
3	4	147	GLN	CD-OE1	-6.16	1.11	1.23
2	T	87	ARG	CZ-NH1	-6.15	1.24	1.32
1	W	31	ASN	C-N	-6.15	1.20	1.33
2	3	98	SER	CB-OG	-6.15	1.29	1.42
3	F	496	PHE	CE1-CZ	-6.15	1.20	1.38
3	I	221	TYR	CG-CD1	-6.15	1.26	1.39
3	I	343	ARG	CG-CD	-6.15	1.33	1.52
3	L	221	TYR	CG-CD1	-6.15	1.26	1.39
3	V	343	ARG	CG-CD	-6.15	1.33	1.52
3	1	154	ASN	C-N	-6.15	1.25	1.33
3	1	343	ARG	CG-CD	-6.15	1.33	1.52
3	1	496	PHE	CE1-CZ	-6.15	1.20	1.38
1	A	31	ASN	C-N	-6.15	1.20	1.33
3	L	217	GLY	C-O	-6.15	1.15	1.23
3	Y	343	ARG	CG-CD	-6.15	1.34	1.52
3	4	343	ARG	CG-CD	-6.15	1.33	1.52
3	C	154	ASN	C-N	-6.15	1.25	1.33
1	D	31	ASN	C-N	-6.15	1.20	1.33
1	W	8	VAL	CB-CG1	-6.15	1.32	1.52
3	4	217	GLY	C-O	-6.15	1.15	1.23
3	U	217	GLY	C-O	-6.15	1.15	1.23
3	U	221	TYR	CG-CD1	-6.15	1.26	1.39
3	F	217	GLY	C-O	-6.15	1.15	1.23
2	Q	87	ARG	CZ-NH1	-6.15	1.24	1.32
3	R	403	PHE	CD1-CE1	-6.15	1.20	1.38
3	Y	465	ASP	C-O	-6.15	1.16	1.24
3	1	370	GLY	C-O	-6.15	1.15	1.23
3	4	496	PHE	CE1-CZ	-6.15	1.20	1.38
3	7	496	PHE	CE1-CZ	-6.15	1.20	1.38
3	U	97	ALA	C-N	-6.15	1.24	1.33
1	M	31	ASN	C-N	-6.15	1.20	1.33
2	9	87	ARG	CZ-NH1	-6.15	1.24	1.32
3	C	343	ARG	CG-CD	-6.14	1.34	1.52
2	K	87	ARG	CZ-NH1	-6.14	1.24	1.32
3	Y	496	PHE	CE1-CZ	-6.14	1.20	1.38
3	C	97	ALA	C-N	-6.14	1.24	1.33
3	F	154	ASN	C-N	-6.14	1.25	1.33
1	G	31	ASN	C-N	-6.14	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	97	ALA	C-N	-6.14	1.24	1.33
2	N	134	TRP	CD2-CE2	-6.14	1.30	1.41
2	3	134	TRP	CD2-CE2	-6.14	1.30	1.41
1	D	8	VAL	CB-CG1	-6.14	1.32	1.52
1	G	8	VAL	CB-CG1	-6.14	1.32	1.52
2	H	87	ARG	CZ-NH1	-6.14	1.24	1.32
3	1	465	ASP	C-O	-6.14	1.16	1.24
1	8	31	ASN	C-N	-6.14	1.20	1.33
3	U	465	ASP	C-O	-6.14	1.16	1.24
3	R	217	GLY	C-O	-6.14	1.15	1.23
1	S	31	ASN	C-N	-6.14	1.20	1.33
2	T	134	TRP	CD2-CE2	-6.14	1.30	1.41
2	X	73	HIS	C-O	-6.14	1.15	1.23
3	U	343	ARG	CG-CD	-6.14	1.34	1.52
2	6	87	ARG	CZ-NH1	-6.14	1.24	1.32
3	7	465	ASP	C-O	-6.14	1.16	1.24
3	L	343	ARG	CG-CD	-6.14	1.34	1.52
3	L	496	PHE	CE1-CZ	-6.14	1.20	1.38
3	Y	217	GLY	C-O	-6.14	1.15	1.23
3	7	147	GLN	CD-OE1	-6.14	1.11	1.23
3	I	147	GLN	CD-OE1	-6.13	1.11	1.23
1	J	31	ASN	C-N	-6.13	1.20	1.33
1	M	8	VAL	CB-CG1	-6.13	1.32	1.52
1	P	31	ASN	C-N	-6.13	1.20	1.33
3	I	455	GLY	N-CA	-6.13	1.36	1.45
2	N	98	SER	CB-OG	-6.13	1.29	1.42
3	O	343	ARG	CG-CD	-6.13	1.34	1.52
1	A	8	VAL	CB-CG1	-6.13	1.32	1.52
3	V	465	ASP	C-O	-6.13	1.16	1.24
3	U	147	GLN	CD-OE1	-6.13	1.11	1.23
3	U	496	PHE	CE1-CZ	-6.13	1.20	1.38
3	F	370	GLY	C-O	-6.13	1.15	1.23
3	C	496	PHE	CE1-CZ	-6.13	1.20	1.38
2	E	98	SER	CB-OG	-6.13	1.29	1.42
3	F	147	GLN	CD-OE1	-6.13	1.11	1.23
3	I	130	ILE	CG1-CD1	-6.13	1.27	1.51
3	V	217	GLY	C-O	-6.13	1.15	1.23
3	V	496	PHE	CE1-CZ	-6.13	1.20	1.38
1	8	8	VAL	CB-CG1	-6.13	1.32	1.52
2	6	134	TRP	CD2-CE2	-6.12	1.30	1.41
3	C	465	ASP	C-O	-6.12	1.16	1.24
3	I	496	PHE	CE1-CZ	-6.12	1.20	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	455	GLY	N-CA	-6.12	1.36	1.45
1	Z	8	VAL	CB-CG1	-6.12	1.32	1.52
3	1	130	ILE	CG1-CD1	-6.12	1.27	1.51
1	2	8	VAL	CB-CG1	-6.12	1.32	1.52
2	B	87	ARG	CZ-NH1	-6.12	1.24	1.32
3	O	130	ILE	CG1-CD1	-6.12	1.27	1.51
3	U	154	ASN	C-N	-6.12	1.25	1.33
3	C	217	GLY	C-O	-6.12	1.15	1.23
3	L	130	ILE	CG1-CD1	-6.12	1.27	1.51
2	9	134	TRP	CD2-CE2	-6.12	1.30	1.41
3	O	217	GLY	C-O	-6.12	1.15	1.23
1	P	8	VAL	CB-CG1	-6.12	1.32	1.52
3	U	130	ILE	CG1-CD1	-6.12	1.27	1.51
3	C	147	GLN	CD-OE1	-6.12	1.11	1.23
3	L	154	ASN	C-N	-6.12	1.25	1.33
3	V	130	ILE	CG1-CD1	-6.12	1.27	1.51
2	X	134	TRP	CD2-CE2	-6.12	1.30	1.41
2	6	74	PHE	CD2-CE2	-6.12	1.20	1.38
3	7	130	ILE	CG1-CD1	-6.12	1.27	1.51
3	C	130	ILE	CG1-CD1	-6.11	1.27	1.51
3	R	496	PHE	CE1-CZ	-6.11	1.20	1.38
1	S	8	VAL	CB-CG1	-6.11	1.32	1.52
3	O	496	PHE	CE1-CZ	-6.11	1.20	1.38
1	5	8	VAL	CB-CG1	-6.11	1.32	1.52
3	F	130	ILE	CG1-CD1	-6.11	1.27	1.51
1	J	8	VAL	CB-CG1	-6.11	1.32	1.52
3	1	217	GLY	C-O	-6.11	1.15	1.23
3	I	465	ASP	C-O	-6.11	1.16	1.24
3	R	147	GLN	CD-OE1	-6.11	1.11	1.23
2	3	87	ARG	CZ-NH1	-6.11	1.24	1.32
3	4	130	ILE	CG1-CD1	-6.11	1.27	1.51
3	Y	130	ILE	CG1-CD1	-6.11	1.27	1.51
3	Y	455	GLY	N-CA	-6.11	1.36	1.45
2	E	74	PHE	CD2-CE2	-6.10	1.20	1.38
3	R	130	ILE	CG1-CD1	-6.10	1.27	1.51
3	1	147	GLN	CD-OE1	-6.10	1.11	1.23
3	L	147	GLN	CD-OE1	-6.10	1.11	1.23
3	O	147	GLN	CD-OE1	-6.10	1.11	1.23
3	I	217	GLY	C-O	-6.10	1.15	1.23
3	O	465	ASP	C-O	-6.10	1.16	1.24
3	V	147	GLN	CD-OE1	-6.10	1.11	1.23
3	I	403	PHE	CE2-CZ	-6.10	1.20	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	455	GLY	N-CA	-6.10	1.36	1.45
3	Y	147	GLN	CD-OE1	-6.10	1.11	1.23
2	3	74	PHE	CD2-CE2	-6.10	1.20	1.38
2	B	74	PHE	CD2-CE2	-6.09	1.20	1.38
3	7	403	PHE	CE2-CZ	-6.09	1.20	1.38
3	L	465	ASP	C-O	-6.09	1.16	1.24
2	T	74	PHE	CD2-CE2	-6.09	1.20	1.38
2	H	73	HIS	C-O	-6.09	1.15	1.23
2	N	74	PHE	CD2-CE2	-6.09	1.20	1.38
2	0	87	ARG	CZ-NH1	-6.09	1.24	1.32
2	N	73	HIS	C-O	-6.09	1.15	1.23
3	4	403	PHE	CE2-CZ	-6.09	1.20	1.38
1	Z	86	PHE	CD2-CE2	-6.09	1.20	1.38
3	7	277	HIS	C-O	-6.09	1.16	1.24
2	H	74	PHE	CD2-CE2	-6.09	1.20	1.38
2	Q	73	HIS	C-O	-6.09	1.15	1.23
2	0	73	HIS	C-O	-6.09	1.15	1.23
2	K	74	PHE	CD2-CE2	-6.08	1.20	1.38
1	S	86	PHE	CD2-CE2	-6.08	1.20	1.38
2	9	69	GLN	CD-NE2	-6.08	1.20	1.33
3	C	403	PHE	CE2-CZ	-6.08	1.20	1.38
1	2	86	PHE	CD2-CE2	-6.08	1.20	1.38
3	4	465	ASP	C-O	-6.08	1.16	1.24
1	8	86	PHE	CD2-CE2	-6.08	1.20	1.38
2	9	73	HIS	C-O	-6.08	1.15	1.23
1	G	14	TYR	CD1-CE1	-6.08	1.20	1.38
3	C	455	GLY	N-CA	-6.08	1.37	1.45
1	5	86	PHE	CD2-CE2	-6.08	1.20	1.38
3	7	455	GLY	N-CA	-6.08	1.37	1.45
1	G	86	PHE	CD2-CE2	-6.08	1.20	1.38
3	7	217	GLY	C-O	-6.08	1.15	1.23
2	9	74	PHE	CD2-CE2	-6.08	1.20	1.38
2	3	73	HIS	C-O	-6.08	1.15	1.23
2	0	74	PHE	CD2-CE2	-6.08	1.20	1.38
3	7	268	PHE	CD2-CE2	-6.08	1.20	1.38
3	O	268	PHE	CD2-CE2	-6.07	1.20	1.38
3	7	160	PHE	C-N	-6.07	1.24	1.33
1	A	86	PHE	CD2-CE2	-6.07	1.20	1.38
3	R	403	PHE	CE2-CZ	-6.07	1.20	1.38
3	1	403	PHE	CE2-CZ	-6.07	1.20	1.38
3	F	455	GLY	N-CA	-6.07	1.37	1.45
2	H	69	GLN	CD-NE2	-6.07	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	403	PHE	CE2-CZ	-6.07	1.20	1.38
2	Q	74	PHE	CD2-CE2	-6.07	1.20	1.38
3	V	403	PHE	CE2-CZ	-6.07	1.20	1.38
1	W	86	PHE	CD2-CE2	-6.07	1.20	1.38
2	K	73	HIS	C-O	-6.07	1.15	1.23
2	X	69	GLN	CD-NE2	-6.07	1.20	1.33
2	B	73	HIS	C-O	-6.07	1.15	1.23
3	F	403	PHE	CE2-CZ	-6.07	1.20	1.38
1	J	14	TYR	CD1-CE1	-6.07	1.20	1.38
2	K	69	GLN	CD-NE2	-6.07	1.20	1.33
3	O	455	GLY	N-CA	-6.07	1.37	1.45
2	X	74	PHE	CD2-CE2	-6.07	1.20	1.38
3	1	455	GLY	N-CA	-6.07	1.37	1.45
1	D	86	PHE	CD2-CE2	-6.07	1.20	1.38
1	J	86	PHE	CD2-CE2	-6.07	1.20	1.38
3	1	159	PHE	C-N	-6.07	1.25	1.33
2	E	73	HIS	C-O	-6.06	1.15	1.23
1	M	86	PHE	CD2-CE2	-6.06	1.20	1.38
2	3	69	GLN	CD-NE2	-6.06	1.20	1.33
2	N	87	ARG	CZ-NH1	-6.06	1.24	1.32
3	Y	403	PHE	CE2-CZ	-6.06	1.20	1.38
2	B	69	GLN	CD-NE2	-6.06	1.20	1.33
3	O	403	PHE	CE2-CZ	-6.06	1.20	1.38
2	Q	69	GLN	CD-NE2	-6.06	1.20	1.33
1	Z	14	TYR	CD1-CE1	-6.06	1.20	1.38
3	U	403	PHE	CE2-CZ	-6.06	1.20	1.38
1	D	14	TYR	CD1-CE1	-6.06	1.20	1.38
3	R	465	ASP	C-O	-6.06	1.16	1.24
3	V	449	PRO	CA-CB	-6.06	1.45	1.53
3	Y	408	TYR	C-O	-6.06	1.17	1.24
2	E	69	GLN	CD-NE2	-6.05	1.20	1.33
3	L	268	PHE	CD2-CE2	-6.05	1.20	1.38
1	2	14	TYR	CD1-CE1	-6.05	1.20	1.38
3	I	268	PHE	CD2-CE2	-6.05	1.20	1.38
1	A	14	TYR	CD1-CE1	-6.05	1.20	1.38
3	O	61	LEU	CG-CD2	-6.05	1.32	1.52
1	S	14	TYR	CD1-CE1	-6.05	1.20	1.38
3	F	449	PRO	CA-CB	-6.05	1.45	1.53
1	P	14	TYR	CD1-CE1	-6.05	1.20	1.38
3	R	268	PHE	CD2-CE2	-6.05	1.20	1.38
3	1	160	PHE	C-N	-6.05	1.24	1.33
3	1	417	ALA	C-N	-6.05	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6	69	GLN	CD-NE2	-6.05	1.20	1.33
1	8	14	TYR	CD1-CE1	-6.05	1.20	1.38
3	O	449	PRO	CA-CB	-6.05	1.45	1.53
3	V	160	PHE	C-N	-6.05	1.24	1.33
1	Z	91	ARG	CG-CD	-6.05	1.34	1.52
3	7	61	LEU	CG-CD2	-6.05	1.32	1.52
3	U	417	ALA	C-N	-6.05	1.26	1.33
3	C	268	PHE	CD2-CE2	-6.05	1.20	1.38
3	F	417	ALA	C-N	-6.05	1.26	1.33
1	G	91	ARG	CG-CD	-6.05	1.34	1.52
3	Y	160	PHE	C-N	-6.05	1.24	1.33
3	4	408	TYR	C-O	-6.05	1.17	1.24
3	L	455	GLY	N-CA	-6.04	1.37	1.45
3	V	28	LEU	CG-CD1	-6.04	1.32	1.52
3	O	28	LEU	CG-CD1	-6.04	1.32	1.52
3	Y	28	LEU	CG-CD1	-6.04	1.32	1.52
3	4	28	LEU	CG-CD1	-6.04	1.32	1.52
3	4	455	GLY	N-CA	-6.04	1.37	1.45
1	5	14	TYR	CD1-CE1	-6.04	1.20	1.38
1	P	86	PHE	CD2-CE2	-6.04	1.20	1.38
2	T	69	GLN	CD-NE2	-6.04	1.20	1.33
3	V	268	PHE	CD2-CE2	-6.04	1.20	1.38
3	4	61	LEU	CG-CD2	-6.04	1.32	1.52
3	4	417	ALA	C-N	-6.04	1.26	1.33
3	I	449	PRO	CA-CB	-6.04	1.45	1.53
2	T	73	HIS	C-O	-6.04	1.15	1.23
3	V	417	ALA	C-N	-6.04	1.26	1.33
3	Y	268	PHE	CD2-CE2	-6.04	1.20	1.38
3	F	268	PHE	CD2-CE2	-6.04	1.20	1.38
1	M	14	TYR	CD1-CE1	-6.04	1.20	1.38
3	O	417	ALA	C-N	-6.04	1.26	1.33
3	R	28	LEU	CG-CD1	-6.04	1.32	1.52
2	0	69	GLN	CD-NE2	-6.04	1.20	1.33
3	U	28	LEU	CG-CD1	-6.04	1.32	1.52
3	F	61	LEU	CG-CD2	-6.04	1.32	1.52
3	L	28	LEU	CG-CD1	-6.04	1.32	1.52
2	6	73	HIS	C-O	-6.04	1.15	1.23
3	U	455	GLY	N-CA	-6.04	1.37	1.45
3	L	61	LEU	CG-CD2	-6.04	1.32	1.52
3	V	61	LEU	CG-CD2	-6.04	1.32	1.52
1	W	14	TYR	CD1-CE1	-6.04	1.20	1.38
3	Y	61	LEU	CG-CD2	-6.04	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	277	HIS	C-O	-6.04	1.16	1.24
3	C	28	LEU	CG-CD1	-6.03	1.32	1.52
3	L	449	PRO	CA-CB	-6.03	1.45	1.53
3	O	140	ILE	C-N	-6.03	1.25	1.33
3	U	268	PHE	CD2-CE2	-6.03	1.20	1.38
3	Y	159	PHE	C-N	-6.03	1.25	1.33
3	1	268	PHE	CD2-CE2	-6.03	1.20	1.38
3	I	61	LEU	CG-CD2	-6.03	1.32	1.52
2	N	69	GLN	CD-NE2	-6.03	1.20	1.33
3	Y	277	HIS	C-O	-6.03	1.16	1.24
1	D	91	ARG	CG-CD	-6.03	1.34	1.52
2	H	130	LEU	CG-CD1	-6.03	1.32	1.52
3	C	61	LEU	CG-CD2	-6.03	1.32	1.52
3	C	449	PRO	CA-CB	-6.03	1.45	1.53
3	I	498	SER	C-N	-6.03	1.26	1.33
3	1	61	LEU	CG-CD2	-6.03	1.32	1.52
3	U	61	LEU	CG-CD2	-6.03	1.32	1.52
3	U	449	PRO	CA-CB	-6.03	1.45	1.53
3	I	28	LEU	CG-CD1	-6.03	1.32	1.52
2	X	130	LEU	CG-CD1	-6.03	1.32	1.52
1	5	91	ARG	CG-CD	-6.03	1.34	1.52
3	7	28	LEU	CG-CD1	-6.03	1.32	1.52
1	A	91	ARG	CG-CD	-6.02	1.34	1.52
3	4	268	PHE	CD2-CE2	-6.02	1.20	1.38
1	8	91	ARG	CG-CD	-6.02	1.34	1.52
3	C	159	PHE	C-N	-6.02	1.25	1.33
3	F	159	PHE	C-N	-6.02	1.25	1.33
3	R	449	PRO	CA-CB	-6.02	1.45	1.53
3	1	28	LEU	CG-CD1	-6.02	1.32	1.52
3	1	449	PRO	CA-CB	-6.02	1.45	1.53
1	2	91	ARG	CG-CD	-6.02	1.34	1.52
3	4	140	ILE	C-N	-6.02	1.25	1.33
3	F	28	LEU	CG-CD1	-6.02	1.32	1.52
1	P	91	ARG	CG-CD	-6.02	1.34	1.52
3	V	408	TYR	C-O	-6.02	1.17	1.24
2	K	130	LEU	CG-CD1	-6.02	1.32	1.52
2	X	122	GLN	CB-CG	-6.02	1.34	1.52
3	4	449	PRO	CA-CB	-6.02	1.45	1.53
3	7	454	LYS	C-N	-6.02	1.26	1.33
2	9	122	GLN	CB-CG	-6.02	1.34	1.52
3	I	277	HIS	C-O	-6.02	1.16	1.24
3	V	277	HIS	C-O	-6.02	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	449	PRO	CA-CB	-6.02	1.45	1.53
3	1	277	HIS	C-O	-6.02	1.16	1.24
3	1	408	TYR	C-O	-6.02	1.17	1.24
2	6	130	LEU	CG-CD1	-6.02	1.32	1.52
3	7	159	PHE	C-N	-6.02	1.25	1.33
3	C	160	PHE	C-N	-6.02	1.24	1.33
3	I	408	TYR	C-O	-6.02	1.17	1.24
2	Q	130	LEU	CG-CD1	-6.02	1.32	1.52
3	4	167	THR	C-O	-6.02	1.15	1.23
3	R	61	LEU	CG-CD2	-6.01	1.32	1.52
2	B	130	LEU	CG-CD1	-6.01	1.32	1.52
3	C	417	ALA	C-N	-6.01	1.26	1.33
2	0	122	GLN	CB-CG	-6.01	1.34	1.52
3	U	450	LYS	CE-NZ	-6.01	1.31	1.49
3	I	417	ALA	C-N	-6.01	1.26	1.33
1	W	91	ARG	CG-CD	-6.01	1.34	1.52
3	R	408	TYR	C-O	-6.01	1.17	1.24
1	S	91	ARG	CG-CD	-6.01	1.34	1.52
1	M	91	ARG	CG-CD	-6.01	1.34	1.52
3	V	140	ILE	C-N	-6.01	1.25	1.33
3	Y	417	ALA	C-N	-6.01	1.26	1.33
2	6	122	GLN	CB-CG	-6.01	1.34	1.52
3	C	408	TYR	C-O	-6.00	1.17	1.24
2	E	130	LEU	CG-CD1	-6.00	1.32	1.52
3	R	159	PHE	C-N	-6.00	1.25	1.33
2	T	130	LEU	CG-CD1	-6.00	1.32	1.52
3	V	450	LYS	CE-NZ	-6.00	1.31	1.49
3	Y	167	THR	C-O	-6.00	1.15	1.23
2	3	130	LEU	CG-CD1	-6.00	1.32	1.52
3	C	277	HIS	C-O	-6.00	1.16	1.24
2	E	122	GLN	CB-CG	-6.00	1.34	1.52
3	I	160	PHE	C-N	-6.00	1.24	1.33
3	I	353	LEU	CG-CD2	-6.00	1.32	1.52
2	N	122	GLN	CB-CG	-6.00	1.34	1.52
2	N	130	LEU	CG-CD1	-6.00	1.32	1.52
3	1	454	LYS	C-N	-6.00	1.26	1.33
3	4	45	TYR	CG-CD2	-6.00	1.26	1.39
3	7	417	ALA	C-N	-6.00	1.26	1.33
2	9	130	LEU	CG-CD1	-6.00	1.32	1.52
3	U	159	PHE	C-N	-6.00	1.25	1.33
3	U	160	PHE	C-N	-6.00	1.24	1.33
3	U	568	ARG	C-N	-6.00	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	122	GLN	CB-CG	-6.00	1.34	1.52
3	L	159	PHE	C-N	-6.00	1.25	1.33
3	1	353	LEU	CG-CD2	-6.00	1.32	1.52
3	7	353	LEU	CG-CD2	-6.00	1.32	1.52
1	J	91	ARG	CG-CD	-6.00	1.34	1.52
3	O	450	LYS	CE-NZ	-6.00	1.31	1.49
3	V	353	LEU	CG-CD2	-6.00	1.32	1.52
1	D	53	VAL	CB-CG1	-6.00	1.32	1.52
3	I	45	TYR	CG-CD2	-6.00	1.26	1.39
3	L	353	LEU	CG-CD2	-6.00	1.32	1.52
3	L	417	ALA	C-N	-6.00	1.26	1.33
2	Q	122	GLN	CB-CG	-6.00	1.34	1.52
3	R	277	HIS	C-O	-6.00	1.16	1.24
3	O	45	TYR	CG-CD2	-6.00	1.26	1.39
3	R	353	LEU	CG-CD2	-6.00	1.32	1.52
2	T	122	GLN	CB-CG	-6.00	1.34	1.52
2	0	130	LEU	CG-CD1	-6.00	1.32	1.52
3	I	450	LYS	CE-NZ	-6.00	1.31	1.49
3	L	341	ARG	CB-CG	-6.00	1.34	1.52
3	4	341	ARG	CB-CG	-6.00	1.34	1.52
3	7	408	TYR	C-O	-6.00	1.17	1.24
3	L	160	PHE	C-N	-5.99	1.24	1.33
3	R	45	TYR	CG-CD2	-5.99	1.26	1.39
3	V	45	TYR	CG-CD2	-5.99	1.26	1.39
3	7	450	LYS	CE-NZ	-5.99	1.31	1.49
3	7	498	SER	C-N	-5.99	1.26	1.33
3	U	45	TYR	CG-CD2	-5.99	1.26	1.39
3	4	160	PHE	C-N	-5.99	1.24	1.33
3	C	353	LEU	CG-CD2	-5.99	1.32	1.52
3	I	159	PHE	C-N	-5.99	1.25	1.33
3	O	408	TYR	C-O	-5.99	1.17	1.24
3	V	159	PHE	C-N	-5.99	1.25	1.33
1	Z	53	VAL	CB-CG1	-5.99	1.32	1.52
3	4	450	LYS	CE-NZ	-5.99	1.31	1.49
3	7	145	PRO	CB-CG	-5.99	1.19	1.49
2	H	122	GLN	CB-CG	-5.99	1.34	1.52
2	K	122	GLN	CB-CG	-5.99	1.34	1.52
3	O	160	PHE	C-N	-5.99	1.24	1.33
3	R	160	PHE	C-N	-5.99	1.24	1.33
3	1	450	LYS	CE-NZ	-5.99	1.31	1.49
3	F	277	HIS	C-O	-5.99	1.16	1.24
3	1	167	THR	C-O	-5.99	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	120	SER	CB-OG	-5.99	1.30	1.42
3	7	45	TYR	CG-CD2	-5.99	1.26	1.39
3	C	45	TYR	CG-CD2	-5.99	1.26	1.39
3	C	450	LYS	CE-NZ	-5.99	1.31	1.49
3	F	460	TRP	CD2-CE2	-5.99	1.31	1.41
3	Y	45	TYR	CG-CD2	-5.99	1.26	1.39
3	F	498	SER	C-N	-5.98	1.26	1.33
3	4	353	LEU	CG-CD2	-5.98	1.32	1.52
3	F	353	LEU	CG-CD2	-5.98	1.32	1.52
3	4	568	ARG	C-N	-5.98	1.25	1.33
3	7	449	PRO	CA-CB	-5.98	1.45	1.53
3	U	277	HIS	C-O	-5.98	1.16	1.24
3	F	145	PRO	CB-CG	-5.98	1.19	1.49
3	L	145	PRO	CB-CG	-5.98	1.19	1.49
3	L	277	HIS	C-O	-5.98	1.16	1.24
3	L	450	LYS	CE-NZ	-5.98	1.31	1.49
3	O	145	PRO	CB-CG	-5.98	1.19	1.49
3	O	167	THR	C-O	-5.98	1.16	1.23
3	R	450	LYS	CE-NZ	-5.98	1.31	1.49
3	R	498	SER	C-N	-5.98	1.26	1.33
3	4	145	PRO	CB-CG	-5.98	1.19	1.49
3	4	454	LYS	C-N	-5.98	1.26	1.33
3	U	353	LEU	CG-CD2	-5.98	1.32	1.52
3	U	408	TYR	C-O	-5.98	1.17	1.24
3	C	341	ARG	CB-CG	-5.98	1.34	1.52
1	M	53	VAL	CB-CG1	-5.98	1.32	1.52
3	Y	140	ILE	C-N	-5.98	1.25	1.33
3	1	145	PRO	CB-CG	-5.98	1.19	1.49
2	3	122	GLN	CB-CG	-5.98	1.34	1.52
1	5	53	VAL	CB-CG1	-5.98	1.32	1.52
3	C	145	PRO	CB-CG	-5.98	1.19	1.49
3	F	45	TYR	CG-CD2	-5.98	1.26	1.39
3	F	160	PHE	C-N	-5.98	1.24	1.33
3	O	277	HIS	C-O	-5.98	1.16	1.24
3	R	145	PRO	CB-CG	-5.98	1.19	1.49
3	R	417	ALA	C-N	-5.98	1.26	1.33
1	S	53	VAL	CB-CG1	-5.98	1.32	1.52
3	Y	450	LYS	CE-NZ	-5.98	1.31	1.49
3	7	120	SER	CB-OG	-5.98	1.30	1.42
1	8	53	VAL	CB-CG1	-5.98	1.32	1.52
3	U	145	PRO	CB-CG	-5.98	1.19	1.49
3	U	341	ARG	CB-CG	-5.98	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	448	LYS	CE-NZ	-5.98	1.31	1.49
2	K	74	PHE	CE2-CZ	-5.98	1.20	1.38
3	O	341	ARG	CB-CG	-5.98	1.34	1.52
3	U	498	SER	C-N	-5.98	1.26	1.33
1	J	53	VAL	CB-CG1	-5.97	1.32	1.52
3	V	145	PRO	CB-CG	-5.97	1.19	1.49
1	A	53	VAL	CB-CG1	-5.97	1.32	1.52
3	I	496	PHE	C-N	-5.97	1.25	1.33
3	I	571	PHE	CG-CD1	-5.97	1.26	1.38
3	O	448	LYS	CE-NZ	-5.97	1.31	1.49
3	V	341	ARG	CB-CG	-5.97	1.34	1.52
3	Y	353	LEU	CG-CD2	-5.97	1.32	1.52
1	W	53	VAL	CB-CG1	-5.97	1.32	1.52
3	I	167	THR	C-O	-5.97	1.16	1.23
2	N	74	PHE	CE2-CZ	-5.97	1.20	1.38
1	P	53	VAL	CB-CG1	-5.97	1.32	1.52
3	Y	145	PRO	CB-CG	-5.97	1.19	1.49
3	1	45	TYR	CG-CD2	-5.97	1.26	1.39
3	F	448	LYS	CE-NZ	-5.97	1.31	1.49
3	F	450	LYS	CE-NZ	-5.97	1.31	1.49
3	1	341	ARG	CB-CG	-5.97	1.34	1.52
3	1	568	ARG	C-N	-5.97	1.25	1.33
3	U	448	LYS	CE-NZ	-5.97	1.31	1.49
3	C	140	ILE	C-N	-5.96	1.25	1.33
3	F	140	ILE	C-N	-5.96	1.25	1.33
3	L	498	SER	C-N	-5.96	1.26	1.33
3	R	448	LYS	CE-NZ	-5.96	1.31	1.49
3	V	120	SER	CB-OG	-5.96	1.30	1.42
3	Y	341	ARG	CB-CG	-5.96	1.34	1.52
1	2	53	VAL	CB-CG1	-5.96	1.32	1.52
3	4	496	PHE	C-N	-5.96	1.25	1.33
3	R	140	ILE	C-N	-5.96	1.25	1.33
3	I	145	PRO	CB-CG	-5.96	1.19	1.49
3	I	454	LYS	C-N	-5.96	1.26	1.33
3	O	568	ARG	C-N	-5.96	1.25	1.33
3	1	120	SER	CB-OG	-5.96	1.30	1.42
3	1	448	LYS	CE-NZ	-5.96	1.31	1.49
3	O	353	LEU	CG-CD2	-5.96	1.32	1.52
3	4	159	PHE	C-N	-5.96	1.25	1.33
3	C	498	SER	C-N	-5.96	1.26	1.33
3	F	341	ARG	CB-CG	-5.96	1.34	1.52
3	I	460	TRP	CD2-CE2	-5.96	1.31	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	568	ARG	C-N	-5.96	1.25	1.33
3	V	448	LYS	CE-NZ	-5.96	1.31	1.49
3	V	568	ARG	C-N	-5.96	1.25	1.33
3	7	341	ARG	CB-CG	-5.96	1.34	1.52
3	U	167	THR	C-O	-5.96	1.16	1.23
3	I	460	TRP	CG-CD1	-5.96	1.22	1.36
3	U	460	TRP	CG-CD1	-5.96	1.22	1.36
3	L	460	TRP	CD2-CE2	-5.96	1.31	1.41
3	O	460	TRP	CG-CD1	-5.96	1.22	1.36
3	R	460	TRP	CG-CD1	-5.96	1.22	1.36
3	C	568	ARG	C-N	-5.95	1.25	1.33
2	E	74	PHE	CE2-CZ	-5.95	1.20	1.38
2	H	74	PHE	CE2-CZ	-5.95	1.20	1.38
3	L	140	ILE	C-N	-5.95	1.25	1.33
3	O	159	PHE	C-N	-5.95	1.25	1.33
3	R	496	PHE	C-N	-5.95	1.25	1.33
3	1	140	ILE	C-N	-5.95	1.25	1.33
3	U	74	ASN	CG-ND2	-5.95	1.20	1.33
3	U	454	LYS	C-N	-5.95	1.26	1.33
3	L	120	SER	CB-OG	-5.95	1.30	1.42
3	R	341	ARG	CB-CG	-5.95	1.34	1.52
3	I	341	ARG	CB-CG	-5.95	1.34	1.52
3	L	45	TYR	CG-CD2	-5.95	1.26	1.39
3	O	454	LYS	C-N	-5.95	1.26	1.33
3	V	460	TRP	CG-CD1	-5.95	1.22	1.36
3	Y	120	SER	CB-OG	-5.95	1.30	1.42
2	0	74	PHE	CE2-CZ	-5.95	1.20	1.38
3	4	460	TRP	CD2-CE2	-5.95	1.31	1.41
3	7	448	LYS	CE-NZ	-5.95	1.31	1.49
2	B	74	PHE	CE2-CZ	-5.95	1.20	1.38
3	C	120	SER	CB-OG	-5.95	1.30	1.42
3	C	167	THR	C-O	-5.95	1.16	1.23
3	C	448	LYS	CE-NZ	-5.95	1.31	1.49
3	C	454	LYS	C-N	-5.95	1.26	1.33
3	F	167	THR	C-O	-5.95	1.16	1.23
1	G	53	VAL	CB-CG1	-5.95	1.32	1.52
2	T	74	PHE	CE2-CZ	-5.95	1.20	1.38
3	Y	454	LYS	C-N	-5.95	1.26	1.33
3	4	448	LYS	CE-NZ	-5.95	1.31	1.49
2	6	74	PHE	CE2-CZ	-5.95	1.20	1.38
3	U	496	PHE	C-N	-5.95	1.25	1.33
3	4	460	TRP	CG-CD1	-5.95	1.22	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	178	GLY	C-N	5.95	1.42	1.33
3	C	460	TRP	CG-CD1	-5.95	1.22	1.36
1	2	64	LEU	CG-CD1	-5.95	1.32	1.52
2	3	74	PHE	CE2-CZ	-5.95	1.20	1.38
3	4	74	ASN	CG-ND2	-5.95	1.20	1.33
3	L	408	TYR	C-O	-5.94	1.17	1.24
3	U	140	ILE	C-N	-5.94	1.25	1.33
3	U	295	GLN	CD-NE2	-5.94	1.20	1.33
3	L	167	THR	C-O	-5.94	1.16	1.23
3	7	568	ARG	C-N	-5.94	1.25	1.33
3	U	120	SER	CB-OG	-5.94	1.30	1.42
3	F	571	PHE	CG-CD1	-5.94	1.26	1.38
3	I	460	TRP	C-N	-5.94	1.26	1.33
3	O	74	ASN	CG-ND2	-5.94	1.20	1.33
3	Y	448	LYS	CE-NZ	-5.94	1.31	1.49
3	1	498	SER	C-N	-5.94	1.26	1.33
3	7	460	TRP	CD2-CE2	-5.94	1.31	1.41
3	I	422	VAL	CB-CG1	-5.94	1.32	1.52
3	O	496	PHE	C-N	-5.94	1.25	1.33
3	U	571	PHE	CG-CD1	-5.94	1.26	1.38
1	D	64	LEU	CG-CD1	-5.94	1.32	1.52
3	I	295	GLN	CD-NE2	-5.94	1.20	1.33
3	O	422	VAL	CB-CG1	-5.94	1.32	1.52
3	R	422	VAL	CB-CG1	-5.94	1.32	1.52
3	V	571	PHE	CG-CD1	-5.94	1.26	1.38
3	Y	460	TRP	CD2-CE2	-5.94	1.31	1.41
3	7	167	THR	C-O	-5.94	1.16	1.23
3	F	454	LYS	C-N	-5.94	1.26	1.33
3	V	422	VAL	CB-CG1	-5.94	1.32	1.52
3	V	496	PHE	C-N	-5.94	1.25	1.33
1	W	64	LEU	CG-CD1	-5.94	1.32	1.52
3	7	460	TRP	CG-CD1	-5.94	1.22	1.36
3	C	460	TRP	CD2-CE2	-5.93	1.31	1.41
3	F	74	ASN	CG-ND2	-5.93	1.20	1.33
2	Q	74	PHE	CE2-CZ	-5.93	1.20	1.38
1	5	64	LEU	CG-CD1	-5.93	1.32	1.52
3	C	496	PHE	C-N	-5.93	1.25	1.33
1	J	64	LEU	CG-CD1	-5.93	1.32	1.52
3	L	422	VAL	CB-CG1	-5.93	1.32	1.52
3	L	448	LYS	CE-NZ	-5.93	1.31	1.49
3	O	120	SER	CB-OG	-5.93	1.30	1.42
3	Y	422	VAL	CB-CG1	-5.93	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	568	ARG	C-N	-5.93	1.25	1.33
3	1	460	TRP	CD2-CE2	-5.93	1.31	1.41
3	I	462	ALA	C-N	-5.93	1.25	1.33
3	I	568	ARG	C-N	-5.93	1.25	1.33
1	P	64	LEU	CG-CD1	-5.93	1.32	1.52
3	V	454	LYS	C-N	-5.93	1.26	1.33
3	4	571	PHE	CG-CD1	-5.93	1.26	1.38
1	A	64	LEU	CG-CD1	-5.93	1.32	1.52
3	F	120	SER	CB-OG	-5.93	1.30	1.42
3	F	568	ARG	C-N	-5.93	1.25	1.33
3	I	140	ILE	C-N	-5.93	1.25	1.33
3	L	295	GLN	CD-NE2	-5.93	1.20	1.33
3	V	167	THR	C-O	-5.93	1.16	1.23
3	1	460	TRP	CG-CD1	-5.93	1.22	1.36
1	8	64	LEU	CG-CD1	-5.93	1.32	1.52
3	F	408	TYR	C-O	-5.93	1.17	1.24
3	1	422	VAL	CB-CG1	-5.93	1.32	1.52
3	C	571	PHE	CG-CD1	-5.93	1.26	1.38
3	O	571	PHE	CG-CD1	-5.93	1.26	1.38
3	R	460	TRP	CD2-CE2	-5.93	1.31	1.41
1	S	64	LEU	CG-CD1	-5.93	1.32	1.52
3	V	74	ASN	CG-ND2	-5.93	1.20	1.33
2	X	74	PHE	CE2-CZ	-5.93	1.20	1.38
3	Y	460	TRP	CG-CD1	-5.93	1.22	1.36
3	1	74	ASN	CG-ND2	-5.93	1.20	1.33
3	7	140	ILE	C-N	-5.93	1.25	1.33
2	9	74	PHE	CE2-CZ	-5.93	1.20	1.38
3	I	74	ASN	CG-ND2	-5.92	1.20	1.33
3	O	295	GLN	CD-NE2	-5.92	1.20	1.33
3	7	462	ALA	C-N	-5.92	1.25	1.33
3	7	496	PHE	C-N	-5.92	1.25	1.33
3	C	422	VAL	CB-CG1	-5.92	1.33	1.52
3	L	74	ASN	CG-ND2	-5.92	1.20	1.33
3	V	498	SER	C-N	-5.92	1.26	1.33
3	7	295	GLN	CD-NE2	-5.92	1.20	1.33
3	F	460	TRP	CG-CD1	-5.92	1.22	1.36
3	C	74	ASN	CG-ND2	-5.92	1.20	1.33
3	F	422	VAL	CB-CG1	-5.92	1.33	1.52
1	G	64	LEU	CG-CD1	-5.92	1.33	1.52
3	R	295	GLN	CD-NE2	-5.92	1.20	1.33
3	Y	498	SER	C-N	-5.92	1.26	1.33
3	4	498	SER	C-N	-5.92	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	24	GLY	CA-C	-5.92	1.44	1.52
3	L	460	TRP	CG-CD1	-5.92	1.22	1.36
3	O	498	SER	C-N	-5.92	1.26	1.33
3	1	571	PHE	CG-CD1	-5.92	1.26	1.38
1	M	64	LEU	CG-CD1	-5.92	1.33	1.52
3	R	120	SER	CB-OG	-5.92	1.30	1.42
3	L	454	LYS	C-N	-5.91	1.26	1.33
3	L	568	ARG	C-N	-5.91	1.25	1.33
3	R	167	THR	C-O	-5.91	1.16	1.23
1	Z	64	LEU	CG-CD1	-5.91	1.33	1.52
3	1	295	GLN	CD-NE2	-5.91	1.20	1.33
3	7	422	VAL	CB-CG1	-5.91	1.33	1.52
3	4	295	GLN	CD-NE2	-5.91	1.20	1.33
3	C	295	GLN	CD-NE2	-5.91	1.20	1.33
3	I	120	SER	CB-OG	-5.91	1.30	1.42
3	R	454	LYS	C-N	-5.91	1.26	1.33
3	V	295	GLN	CD-NE2	-5.91	1.20	1.33
3	4	422	VAL	CB-CG1	-5.91	1.33	1.52
3	R	227	TRP	C-O	-5.91	1.15	1.24
3	I	437	LEU	C-N	-5.90	1.25	1.33
3	R	571	PHE	CG-CD1	-5.90	1.26	1.38
3	U	460	TRP	CD2-CE2	-5.90	1.31	1.41
3	7	74	ASN	CG-ND2	-5.90	1.20	1.33
3	L	571	PHE	CG-CD1	-5.90	1.26	1.38
3	V	460	TRP	CD2-CE2	-5.90	1.31	1.41
3	Y	295	GLN	CD-NE2	-5.90	1.20	1.33
3	Y	496	PHE	C-N	-5.90	1.25	1.33
3	F	41	GLU	C-O	-5.90	1.15	1.23
3	R	74	ASN	CG-ND2	-5.90	1.20	1.33
3	R	437	LEU	C-N	-5.90	1.25	1.33
3	F	460	TRP	C-N	-5.90	1.26	1.33
3	F	496	PHE	C-N	-5.90	1.25	1.33
3	L	496	PHE	C-N	-5.89	1.25	1.33
3	Y	74	ASN	CG-ND2	-5.89	1.20	1.33
3	1	227	TRP	C-O	-5.89	1.15	1.24
3	Y	92	ARG	CZ-NH1	-5.89	1.24	1.32
3	7	460	TRP	C-N	-5.89	1.26	1.33
3	U	422	VAL	CB-CG1	-5.89	1.33	1.52
3	C	462	ALA	C-N	-5.89	1.25	1.33
3	L	460	TRP	C-N	-5.89	1.26	1.33
3	Y	460	TRP	C-N	-5.89	1.26	1.33
3	1	496	PHE	C-N	-5.89	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	24	LYS	CB-CG	-5.89	1.34	1.52
3	Y	571	PHE	CG-CD1	-5.89	1.26	1.38
2	6	57	LYS	CB-CG	-5.89	1.34	1.52
3	C	460	TRP	C-N	-5.88	1.26	1.33
3	4	425	VAL	C-N	-5.88	1.25	1.33
3	7	571	PHE	CG-CD1	-5.88	1.26	1.38
3	U	437	LEU	C-N	-5.88	1.25	1.33
3	F	437	LEU	C-N	-5.88	1.25	1.33
3	L	227	TRP	C-O	-5.88	1.15	1.24
3	L	462	ALA	C-N	-5.88	1.25	1.33
3	1	462	ALA	C-N	-5.88	1.25	1.33
3	4	41	GLU	C-O	-5.88	1.15	1.23
1	A	24	LYS	CB-CG	-5.88	1.34	1.52
1	D	24	LYS	CB-CG	-5.88	1.34	1.52
3	F	462	ALA	C-N	-5.88	1.25	1.33
3	F	482	PHE	CE1-CZ	-5.88	1.21	1.38
3	I	482	PHE	CE1-CZ	-5.88	1.21	1.38
3	L	449	PRO	CB-CG	-5.88	1.20	1.49
3	O	41	GLU	C-O	-5.88	1.15	1.23
3	1	41	GLU	C-O	-5.88	1.15	1.23
3	1	460	TRP	C-N	-5.88	1.26	1.33
3	4	462	ALA	C-N	-5.88	1.25	1.33
3	U	482	PHE	CE1-CZ	-5.88	1.21	1.38
3	I	41	GLU	C-O	-5.88	1.15	1.23
2	K	57	LYS	CB-CG	-5.88	1.34	1.52
3	R	462	ALA	C-N	-5.88	1.25	1.33
3	7	41	GLU	C-O	-5.88	1.15	1.23
3	F	295	GLN	CD-NE2	-5.88	1.21	1.33
2	H	57	LYS	CB-CG	-5.88	1.34	1.52
2	T	57	LYS	CB-CG	-5.88	1.34	1.52
3	V	41	GLU	C-O	-5.88	1.15	1.23
3	7	148	ALA	CA-CB	-5.88	1.44	1.53
3	7	437	LEU	C-N	-5.88	1.25	1.33
3	O	482	PHE	CE1-CZ	-5.87	1.21	1.38
1	W	24	LYS	CB-CG	-5.87	1.34	1.52
1	5	24	LYS	CB-CG	-5.87	1.34	1.52
3	U	149	TYR	CD1-CE1	-5.87	1.21	1.38
3	U	449	PRO	CB-CG	-5.87	1.20	1.49
3	L	41	GLU	C-O	-5.87	1.15	1.23
3	O	460	TRP	CD2-CE2	-5.87	1.31	1.41
3	V	227	TRP	C-O	-5.87	1.16	1.24
2	E	57	LYS	CB-CG	-5.87	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	462	ALA	C-N	-5.87	1.25	1.33
3	Y	437	LEU	C-N	-5.87	1.25	1.33
3	1	449	PRO	CB-CG	-5.87	1.20	1.49
2	3	57	LYS	CB-CG	-5.87	1.34	1.52
3	7	425	VAL	C-N	-5.87	1.25	1.33
3	U	41	GLU	C-O	-5.87	1.15	1.23
2	B	57	LYS	CB-CG	-5.87	1.34	1.52
3	C	41	GLU	C-O	-5.87	1.15	1.23
3	F	24	GLY	CA-C	-5.87	1.44	1.52
1	J	24	LYS	CB-CG	-5.87	1.34	1.52
3	R	24	GLY	CA-C	-5.87	1.44	1.52
3	V	482	PHE	CE1-CZ	-5.87	1.21	1.38
3	1	148	ALA	CA-CB	-5.87	1.44	1.53
1	8	24	LYS	CB-CG	-5.87	1.34	1.52
3	U	421	GLY	C-N	-5.87	1.25	1.33
3	U	462	ALA	C-N	-5.87	1.25	1.33
3	1	24	GLY	CA-C	-5.87	1.44	1.52
3	U	24	GLY	CA-C	-5.87	1.44	1.52
3	L	149	TYR	CD1-CE1	-5.87	1.21	1.38
3	L	482	PHE	CE1-CZ	-5.87	1.21	1.38
3	O	149	TYR	CD1-CE1	-5.87	1.21	1.38
3	O	437	LEU	C-N	-5.87	1.25	1.33
1	Z	24	LYS	CB-CG	-5.87	1.34	1.52
1	2	24	LYS	CB-CG	-5.87	1.34	1.52
3	7	92	ARG	CZ-NH1	-5.87	1.24	1.32
2	N	57	LYS	CB-CG	-5.86	1.34	1.52
3	R	449	PRO	CB-CG	-5.86	1.20	1.49
1	S	24	LYS	CB-CG	-5.86	1.34	1.52
3	V	421	GLY	C-N	-5.86	1.25	1.33
3	Y	462	ALA	C-N	-5.86	1.25	1.33
3	C	437	LEU	C-N	-5.86	1.25	1.33
3	C	449	PRO	CB-CG	-5.86	1.20	1.49
3	C	482	PHE	CE1-CZ	-5.86	1.21	1.38
3	I	227	TRP	C-O	-5.86	1.16	1.24
3	O	460	TRP	C-N	-5.86	1.26	1.33
3	7	482	PHE	CE1-CZ	-5.86	1.21	1.38
3	C	92	ARG	CZ-NH1	-5.86	1.24	1.32
2	X	57	LYS	CB-CG	-5.86	1.34	1.52
3	1	482	PHE	CE1-CZ	-5.86	1.21	1.38
3	V	24	GLY	CA-C	-5.86	1.44	1.52
3	V	149	TYR	CD1-CE1	-5.86	1.21	1.38
3	1	437	LEU	C-N	-5.86	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	437	LEU	C-N	-5.86	1.25	1.33
3	F	449	PRO	CB-CG	-5.86	1.20	1.49
3	I	149	TYR	CD1-CE1	-5.86	1.21	1.38
3	C	227	TRP	C-O	-5.86	1.16	1.24
1	G	24	LYS	CB-CG	-5.86	1.34	1.52
1	P	24	LYS	CB-CG	-5.86	1.34	1.52
3	R	149	TYR	CD1-CE1	-5.86	1.21	1.38
3	Y	449	PRO	CB-CG	-5.86	1.20	1.49
3	4	92	ARG	CZ-NH1	-5.86	1.24	1.32
3	4	460	TRP	C-N	-5.86	1.26	1.33
3	O	449	PRO	CB-CG	-5.85	1.20	1.49
2	Q	57	LYS	CB-CG	-5.85	1.34	1.52
3	V	449	PRO	CB-CG	-5.85	1.20	1.49
3	Y	149	TYR	CD1-CE1	-5.85	1.21	1.38
2	0	57	LYS	CB-CG	-5.85	1.34	1.52
3	7	449	PRO	CB-CG	-5.85	1.20	1.49
3	O	92	ARG	CZ-NH1	-5.85	1.24	1.32
3	V	460	TRP	C-N	-5.85	1.26	1.33
3	1	149	TYR	CD1-CE1	-5.85	1.21	1.38
3	7	421	GLY	C-N	-5.85	1.25	1.33
3	F	149	TYR	CD1-CE1	-5.85	1.21	1.38
3	O	227	TRP	C-O	-5.85	1.16	1.24
3	V	462	ALA	C-N	-5.85	1.25	1.33
3	4	227	TRP	C-O	-5.85	1.16	1.24
3	C	24	GLY	CA-C	-5.85	1.44	1.52
3	C	149	TYR	CD1-CE1	-5.85	1.21	1.38
3	F	28	LEU	C-N	-5.85	1.25	1.33
3	I	148	ALA	CA-CB	-5.85	1.44	1.53
3	I	449	PRO	CB-CG	-5.85	1.20	1.49
3	R	41	GLU	C-O	-5.85	1.15	1.23
3	Y	482	PHE	CE1-CZ	-5.85	1.21	1.38
3	4	449	PRO	CB-CG	-5.85	1.20	1.49
3	4	482	PHE	CE1-CZ	-5.85	1.21	1.38
3	O	421	GLY	C-N	-5.85	1.25	1.33
3	V	92	ARG	CZ-NH1	-5.85	1.24	1.32
3	U	92	ARG	CZ-NH1	-5.85	1.24	1.32
2	9	57	LYS	CB-CG	-5.84	1.34	1.52
3	C	421	GLY	C-N	-5.84	1.25	1.33
3	I	425	VAL	C-N	-5.84	1.25	1.33
3	O	24	GLY	CA-C	-5.84	1.44	1.52
3	R	421	GLY	C-N	-5.84	1.25	1.33
3	Y	24	GLY	CA-C	-5.84	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	227	TRP	C-O	-5.84	1.16	1.24
3	U	460	TRP	C-N	-5.84	1.26	1.33
3	R	482	PHE	CE1-CZ	-5.84	1.21	1.38
3	1	92	ARG	CZ-NH1	-5.84	1.24	1.32
3	C	425	VAL	C-N	-5.84	1.25	1.33
3	Y	41	GLU	C-O	-5.84	1.15	1.23
3	F	148	ALA	CA-CB	-5.84	1.44	1.53
3	L	437	LEU	C-N	-5.84	1.25	1.33
3	4	421	GLY	C-N	-5.84	1.25	1.33
3	L	421	GLY	C-N	-5.83	1.25	1.33
3	4	149	TYR	CD1-CE1	-5.83	1.21	1.38
3	7	149	TYR	CD1-CE1	-5.83	1.21	1.38
3	R	425	VAL	C-N	-5.83	1.25	1.33
3	1	28	LEU	C-N	-5.83	1.25	1.33
3	4	24	GLY	CA-C	-5.83	1.44	1.52
3	7	24	GLY	CA-C	-5.83	1.44	1.52
3	L	92	ARG	CZ-NH1	-5.83	1.24	1.32
3	C	148	ALA	CA-CB	-5.83	1.44	1.53
3	F	227	TRP	C-O	-5.83	1.16	1.24
3	Y	148	ALA	CA-CB	-5.83	1.44	1.53
3	F	421	GLY	C-N	-5.83	1.25	1.33
3	I	28	LEU	C-N	-5.83	1.25	1.33
3	V	437	LEU	C-N	-5.82	1.25	1.33
3	1	421	GLY	C-N	-5.82	1.25	1.33
3	F	92	ARG	CZ-NH1	-5.82	1.24	1.32
3	L	425	VAL	C-N	-5.82	1.25	1.33
3	7	28	LEU	C-N	-5.82	1.25	1.33
3	U	227	TRP	C-O	-5.82	1.16	1.24
3	R	92	ARG	CZ-NH1	-5.82	1.24	1.32
3	Y	421	GLY	C-N	-5.82	1.25	1.33
1	Z	2	GLN	N-CA	-5.82	1.38	1.46
3	U	425	VAL	C-N	-5.82	1.25	1.33
3	I	92	ARG	CZ-NH1	-5.82	1.24	1.32
3	I	96	ILE	CG1-CD1	-5.82	1.29	1.51
3	R	148	ALA	CA-CB	-5.82	1.44	1.53
3	F	425	VAL	C-N	-5.82	1.25	1.33
3	I	99	ILE	C-O	-5.82	1.18	1.24
3	O	148	ALA	CA-CB	-5.82	1.44	1.53
3	1	300	PRO	CB-CG	-5.82	1.20	1.49
3	I	300	PRO	CB-CG	-5.81	1.20	1.49
3	F	300	PRO	CB-CG	-5.81	1.20	1.49
3	Y	227	TRP	C-O	-5.81	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	300	PRO	CB-CG	-5.81	1.20	1.49
3	U	300	PRO	CB-CG	-5.81	1.20	1.49
3	R	96	ILE	CG1-CD1	-5.81	1.29	1.51
3	V	300	PRO	CB-CG	-5.81	1.20	1.49
3	L	300	PRO	CB-CG	-5.81	1.20	1.49
3	O	425	VAL	C-N	-5.81	1.25	1.33
3	4	99	ILE	C-O	-5.81	1.18	1.24
3	4	300	PRO	CB-CG	-5.81	1.20	1.49
3	V	143	ILE	CG1-CD1	-5.81	1.29	1.51
3	C	96	ILE	CG1-CD1	-5.80	1.29	1.51
3	C	300	PRO	CB-CG	-5.80	1.20	1.49
3	O	143	ILE	CG1-CD1	-5.80	1.29	1.51
3	Y	96	ILE	CG1-CD1	-5.80	1.29	1.51
3	1	425	VAL	C-N	-5.80	1.25	1.33
3	4	28	LEU	C-N	-5.80	1.25	1.33
3	7	300	PRO	CB-CG	-5.80	1.20	1.49
3	I	143	ILE	CG1-CD1	-5.80	1.29	1.51
2	N	66	ARG	CZ-NH2	-5.80	1.25	1.33
3	V	148	ALA	CA-CB	-5.80	1.44	1.53
3	4	148	ALA	CA-CB	-5.80	1.44	1.53
3	R	300	PRO	CB-CG	-5.80	1.20	1.49
3	R	460	TRP	C-N	-5.80	1.26	1.33
3	Y	425	VAL	C-N	-5.80	1.25	1.33
3	O	96	ILE	CG1-CD1	-5.80	1.29	1.51
1	P	2	GLN	N-CA	-5.80	1.38	1.46
2	3	66	ARG	CZ-NH2	-5.80	1.25	1.33
3	R	28	LEU	C-N	-5.80	1.25	1.33
3	Y	300	PRO	CB-CG	-5.80	1.20	1.49
3	1	143	ILE	CG1-CD1	-5.80	1.29	1.51
2	6	66	ARG	CZ-NH2	-5.80	1.25	1.33
3	7	96	ILE	CG1-CD1	-5.80	1.29	1.51
3	I	421	GLY	C-N	-5.79	1.25	1.33
3	L	24	GLY	CA-C	-5.79	1.44	1.52
3	L	96	ILE	CG1-CD1	-5.79	1.29	1.51
3	F	96	ILE	CG1-CD1	-5.79	1.29	1.51
3	R	143	ILE	CG1-CD1	-5.79	1.29	1.51
3	C	28	LEU	C-N	-5.79	1.25	1.33
3	C	143	ILE	CG1-CD1	-5.79	1.29	1.51
3	4	143	ILE	CG1-CD1	-5.79	1.29	1.51
3	7	445	PHE	CG-CD1	-5.79	1.26	1.38
3	1	96	ILE	CG1-CD1	-5.79	1.29	1.51
3	L	28	LEU	C-N	-5.79	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	96	ILE	CG1-CD1	-5.79	1.29	1.51
3	I	180	TRP	CE3-CZ3	-5.78	1.21	1.38
3	L	143	ILE	CG1-CD1	-5.78	1.29	1.51
1	W	2	GLN	N-CA	-5.78	1.38	1.46
3	4	96	ILE	CG1-CD1	-5.78	1.29	1.51
3	U	96	ILE	CG1-CD1	-5.78	1.29	1.51
3	U	143	ILE	CG1-CD1	-5.78	1.29	1.51
3	U	148	ALA	CA-CB	-5.78	1.44	1.53
3	7	143	ILE	CG1-CD1	-5.78	1.29	1.51
3	V	28	LEU	C-N	-5.78	1.25	1.33
3	V	445	PHE	CG-CD1	-5.78	1.26	1.38
3	Y	143	ILE	CG1-CD1	-5.78	1.29	1.51
3	4	180	TRP	CE3-CZ3	-5.78	1.21	1.38
3	U	445	PHE	CG-CD1	-5.78	1.26	1.38
3	U	45	TYR	C-N	-5.78	1.26	1.32
3	L	148	ALA	CA-CB	-5.78	1.44	1.53
2	Q	66	ARG	CZ-NH2	-5.78	1.25	1.33
3	1	180	TRP	CE3-CZ3	-5.78	1.21	1.38
3	F	143	ILE	CG1-CD1	-5.78	1.29	1.51
2	H	66	ARG	CZ-NH2	-5.78	1.25	1.33
3	L	445	PHE	CG-CD1	-5.78	1.26	1.38
3	1	99	ILE	C-O	-5.78	1.18	1.24
3	7	45	TYR	C-N	-5.78	1.26	1.32
3	V	524	THR	C-N	-5.77	1.20	1.33
3	C	445	PHE	CG-CD1	-5.77	1.26	1.38
3	V	180	TRP	CE3-CZ3	-5.77	1.21	1.38
2	0	66	ARG	CZ-NH2	-5.77	1.25	1.33
3	O	45	TYR	C-N	-5.77	1.26	1.32
3	Y	28	LEU	C-N	-5.77	1.25	1.33
3	F	180	TRP	CE3-CZ3	-5.77	1.21	1.38
3	R	445	PHE	CG-CD1	-5.77	1.26	1.38
3	I	524	THR	C-N	-5.77	1.20	1.33
3	Y	180	TRP	CE3-CZ3	-5.77	1.21	1.38
3	4	445	PHE	CG-CD1	-5.77	1.26	1.38
2	9	66	ARG	CZ-NH2	-5.77	1.25	1.33
1	G	2	GLN	N-CA	-5.77	1.38	1.46
3	I	445	PHE	CG-CD1	-5.77	1.26	1.38
3	1	445	PHE	CG-CD1	-5.77	1.26	1.38
2	B	66	ARG	CZ-NH2	-5.76	1.25	1.33
3	I	45	TYR	C-N	-5.76	1.26	1.32
3	L	180	TRP	CE3-CZ3	-5.76	1.21	1.38
3	V	425	VAL	C-N	-5.76	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	180	TRP	CE3-CZ3	-5.76	1.21	1.38
1	D	2	GLN	N-CA	-5.76	1.38	1.46
1	A	2	GLN	N-CA	-5.76	1.38	1.46
3	L	45	TYR	C-N	-5.76	1.26	1.32
3	O	180	TRP	CE3-CZ3	-5.76	1.21	1.38
3	R	524	THR	C-N	-5.76	1.20	1.33
3	7	524	THR	C-N	-5.76	1.20	1.33
2	X	66	ARG	CZ-NH2	-5.76	1.25	1.33
3	Y	445	PHE	CG-CD1	-5.76	1.26	1.38
3	C	524	THR	C-N	-5.76	1.20	1.33
2	H	117	PRO	CA-CB	-5.76	1.46	1.53
2	K	48	THR	CB-CG2	-5.76	1.33	1.52
2	Q	48	THR	CB-CG2	-5.76	1.33	1.52
2	Q	117	PRO	CA-CB	-5.76	1.46	1.53
3	V	501	ALA	CA-CB	-5.76	1.44	1.53
3	U	524	THR	C-N	-5.76	1.20	1.33
3	F	170	THR	CA-C	-5.75	1.45	1.52
3	O	501	ALA	CA-CB	-5.75	1.44	1.53
3	L	524	THR	C-N	-5.75	1.20	1.33
3	L	99	ILE	C-O	-5.75	1.18	1.24
3	O	255	LEU	C-N	-5.75	1.25	1.33
2	X	48	THR	CB-CG2	-5.75	1.33	1.52
2	6	87	ARG	CG-CD	-5.75	1.35	1.52
3	U	28	LEU	C-N	-5.75	1.25	1.33
3	4	524	THR	C-N	-5.75	1.20	1.33
1	5	2	GLN	N-CA	-5.75	1.38	1.46
3	U	255	LEU	C-N	-5.75	1.25	1.33
3	R	45	TYR	C-N	-5.75	1.26	1.32
3	R	99	ILE	C-O	-5.75	1.18	1.24
2	X	87	ARG	CG-CD	-5.75	1.35	1.52
3	1	524	THR	C-N	-5.75	1.20	1.33
1	5	14	TYR	CE1-CZ	-5.75	1.24	1.38
1	M	2	GLN	N-CA	-5.75	1.38	1.46
3	O	28	LEU	C-N	-5.75	1.25	1.33
3	Y	524	THR	C-N	-5.75	1.20	1.33
2	0	48	THR	CB-CG2	-5.75	1.33	1.52
3	4	45	TYR	C-N	-5.75	1.26	1.32
2	6	48	THR	CB-CG2	-5.75	1.33	1.52
3	U	180	TRP	CE3-CZ3	-5.75	1.21	1.38
2	H	48	THR	CB-CG2	-5.75	1.33	1.52
2	N	87	ARG	CG-CD	-5.75	1.35	1.52
2	B	48	THR	CB-CG2	-5.74	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	45	TYR	C-N	-5.74	1.26	1.32
3	F	445	PHE	CG-CD1	-5.74	1.26	1.38
2	N	117	PRO	CA-CB	-5.74	1.46	1.53
3	O	445	PHE	CG-CD1	-5.74	1.26	1.38
3	V	99	ILE	C-O	-5.74	1.18	1.24
3	R	180	TRP	CE3-CZ3	-5.74	1.21	1.38
3	7	180	TRP	CE3-CZ3	-5.74	1.21	1.38
3	O	524	THR	C-N	-5.74	1.20	1.33
3	V	221	TYR	CD2-CE2	-5.74	1.21	1.38
2	E	87	ARG	CG-CD	-5.74	1.35	1.52
2	H	87	ARG	CG-CD	-5.74	1.35	1.52
3	I	221	TYR	CD2-CE2	-5.74	1.21	1.38
1	P	14	TYR	CE1-CZ	-5.74	1.24	1.38
3	F	99	ILE	C-O	-5.74	1.18	1.24
2	K	66	ARG	CZ-NH2	-5.74	1.25	1.33
3	L	89	VAL	CB-CG2	-5.74	1.33	1.52
2	N	48	THR	CB-CG2	-5.74	1.33	1.52
3	R	89	VAL	CB-CG2	-5.74	1.33	1.52
2	T	134	TRP	C-N	-5.74	1.26	1.33
3	1	221	TYR	CD2-CE2	-5.74	1.21	1.38
2	6	117	PRO	CA-CB	-5.74	1.46	1.53
3	C	89	VAL	CB-CG2	-5.73	1.33	1.52
2	0	134	TRP	C-N	-5.73	1.26	1.33
2	9	87	ARG	CG-CD	-5.73	1.35	1.52
3	O	89	VAL	CB-CG2	-5.73	1.33	1.52
2	T	48	THR	CB-CG2	-5.73	1.33	1.52
3	V	439	LEU	CB-CG	-5.73	1.42	1.53
3	7	89	VAL	CB-CG2	-5.73	1.33	1.52
3	F	89	VAL	CB-CG2	-5.73	1.33	1.52
2	Q	87	ARG	CG-CD	-5.73	1.35	1.52
3	Y	170	THR	CA-C	-5.73	1.45	1.52
3	4	89	VAL	CB-CG2	-5.73	1.33	1.52
3	F	524	THR	C-N	-5.73	1.20	1.33
3	1	89	VAL	CB-CG2	-5.73	1.33	1.52
2	B	87	ARG	CG-CD	-5.73	1.35	1.52
3	V	89	VAL	CB-CG2	-5.73	1.33	1.52
3	1	45	TYR	C-N	-5.73	1.26	1.32
3	7	170	THR	CA-C	-5.73	1.45	1.52
3	U	89	VAL	CB-CG2	-5.73	1.33	1.52
1	A	14	TYR	CE1-CZ	-5.73	1.24	1.38
2	T	87	ARG	CG-CD	-5.73	1.35	1.52
3	C	221	TYR	CD2-CE2	-5.72	1.21	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	2	GLN	N-CA	-5.72	1.38	1.46
2	T	66	ARG	CZ-NH2	-5.72	1.26	1.33
2	0	87	ARG	CG-CD	-5.72	1.35	1.52
1	2	2	GLN	N-CA	-5.72	1.38	1.46
2	3	48	THR	CB-CG2	-5.72	1.33	1.52
2	9	48	THR	CB-CG2	-5.72	1.33	1.52
2	B	117	PRO	CA-CB	-5.72	1.46	1.53
3	I	255	LEU	C-N	-5.72	1.25	1.33
1	W	14	TYR	CE1-CZ	-5.72	1.24	1.38
3	Y	89	VAL	CB-CG2	-5.72	1.33	1.52
1	Z	14	TYR	CE1-CZ	-5.72	1.24	1.38
2	0	117	PRO	CA-CB	-5.72	1.46	1.53
3	1	371	ARG	CG-CD	-5.72	1.35	1.52
3	4	221	TYR	CD2-CE2	-5.72	1.21	1.38
3	7	99	ILE	C-O	-5.72	1.18	1.24
3	U	221	TYR	CD2-CE2	-5.72	1.21	1.38
2	E	48	THR	CB-CG2	-5.72	1.33	1.52
3	I	89	VAL	CB-CG2	-5.72	1.33	1.52
3	O	99	ILE	C-O	-5.72	1.18	1.24
3	R	439	LEU	CB-CG	-5.72	1.42	1.53
3	V	371	ARG	CG-CD	-5.72	1.35	1.52
3	1	170	THR	CA-C	-5.72	1.45	1.52
1	8	2	GLN	N-CA	-5.72	1.38	1.46
3	C	99	ILE	C-O	-5.72	1.18	1.24
3	F	371	ARG	CG-CD	-5.72	1.35	1.52
1	J	14	TYR	CE1-CZ	-5.72	1.24	1.38
3	V	255	LEU	C-N	-5.72	1.25	1.33
2	3	87	ARG	CG-CD	-5.72	1.35	1.52
2	3	134	TRP	C-N	-5.72	1.26	1.33
3	F	221	TYR	CD2-CE2	-5.72	1.21	1.38
3	7	183	ARG	C-N	-5.72	1.26	1.33
3	C	255	LEU	C-N	-5.71	1.25	1.33
3	C	371	ARG	CG-CD	-5.71	1.35	1.52
3	C	501	ALA	CA-CB	-5.71	1.44	1.53
1	D	14	TYR	CE1-CZ	-5.71	1.24	1.38
1	S	2	GLN	N-CA	-5.71	1.38	1.46
1	S	14	TYR	CE1-CZ	-5.71	1.24	1.38
3	V	45	TYR	C-N	-5.71	1.26	1.32
3	V	170	THR	CA-C	-5.71	1.45	1.52
2	K	87	ARG	CG-CD	-5.71	1.35	1.52
3	L	81	ARG	CZ-NH2	-5.71	1.26	1.33
3	L	497	VAL	CB-CG2	-5.71	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	371	ARG	CG-CD	-5.71	1.35	1.52
3	I	491	ASP	C-N	-5.71	1.25	1.33
3	V	81	ARG	CZ-NH2	-5.71	1.26	1.33
3	V	92	ARG	NE-CZ	-5.71	1.26	1.33
3	Y	221	TYR	CD2-CE2	-5.71	1.21	1.38
3	Y	501	ALA	CA-CB	-5.71	1.44	1.53
3	I	501	ALA	CA-CB	-5.71	1.44	1.53
3	L	371	ARG	CG-CD	-5.71	1.35	1.52
3	Y	45	TYR	C-N	-5.71	1.26	1.32
3	F	484	ALA	CA-CB	-5.71	1.43	1.53
3	L	484	ALA	CA-CB	-5.71	1.43	1.53
3	O	423	SER	C-N	-5.71	1.26	1.33
3	R	255	LEU	C-N	-5.71	1.25	1.33
3	C	170	THR	CA-C	-5.71	1.45	1.52
1	G	14	TYR	CE1-CZ	-5.71	1.24	1.38
3	R	423	SER	C-N	-5.71	1.26	1.33
1	2	14	TYR	CE1-CZ	-5.71	1.24	1.38
3	7	212	GLU	CA-CB	5.71	1.63	1.53
3	U	81	ARG	CZ-NH2	-5.71	1.26	1.33
2	H	134	TRP	C-N	-5.71	1.26	1.33
3	L	183	ARG	C-N	-5.71	1.26	1.33
3	7	221	TYR	CD2-CE2	-5.71	1.21	1.38
3	7	439	LEU	CB-CG	-5.71	1.42	1.53
3	F	501	ALA	CA-CB	-5.70	1.44	1.53
3	I	484	ALA	CA-CB	-5.70	1.43	1.53
3	L	423	SER	C-N	-5.70	1.26	1.33
3	O	13	PHE	CE2-CZ	-5.70	1.21	1.38
3	R	221	TYR	CD2-CE2	-5.70	1.21	1.38
3	4	13	PHE	CE2-CZ	-5.70	1.21	1.38
3	7	501	ALA	CA-CB	-5.70	1.44	1.53
1	8	56	VAL	CB-CG2	-5.70	1.33	1.52
3	O	371	ARG	CG-CD	-5.70	1.35	1.52
2	X	117	PRO	CA-CB	-5.70	1.46	1.53
3	4	439	LEU	CB-CG	-5.70	1.42	1.53
2	K	117	PRO	CA-CB	-5.70	1.46	1.53
3	1	81	ARG	CZ-NH2	-5.70	1.26	1.33
3	4	484	ALA	CA-CB	-5.70	1.43	1.53
3	4	501	ALA	CA-CB	-5.70	1.44	1.53
3	7	497	VAL	CB-CG2	-5.70	1.33	1.52
3	U	501	ALA	CA-CB	-5.70	1.44	1.53
2	E	117	PRO	CA-CB	-5.70	1.46	1.53
1	G	56	VAL	CB-CG2	-5.70	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	81	ARG	CZ-NH2	-5.70	1.26	1.33
3	L	221	TYR	CD2-CE2	-5.70	1.21	1.38
3	O	221	TYR	CD2-CE2	-5.70	1.21	1.38
3	R	433	LYS	CD-CE	-5.70	1.35	1.52
1	S	56	VAL	CB-CG2	-5.70	1.33	1.52
3	F	13	PHE	CE2-CZ	-5.70	1.21	1.38
3	I	170	THR	CA-C	-5.70	1.45	1.52
3	O	484	ALA	CA-CB	-5.70	1.43	1.53
3	7	13	PHE	CE2-CZ	-5.70	1.21	1.38
1	8	14	TYR	CE1-CZ	-5.70	1.24	1.38
3	U	371	ARG	CG-CD	-5.70	1.35	1.52
3	U	439	LEU	CB-CG	-5.70	1.42	1.53
2	E	66	ARG	CZ-NH2	-5.70	1.26	1.33
3	F	45	TYR	C-N	-5.70	1.26	1.32
3	O	170	THR	CA-C	-5.70	1.45	1.52
3	O	497	VAL	CB-CG2	-5.70	1.33	1.52
1	W	56	VAL	CB-CG2	-5.70	1.33	1.52
3	Y	497	VAL	CB-CG2	-5.70	1.33	1.52
3	1	458	ILE	N-CA	-5.70	1.40	1.46
2	H	157	GLU	CB-CG	-5.69	1.35	1.52
2	T	117	PRO	CA-CB	-5.69	1.46	1.53
3	Y	484	ALA	CA-CB	-5.69	1.43	1.53
3	4	183	ARG	C-N	-5.69	1.26	1.33
3	C	81	ARG	CZ-NH2	-5.69	1.26	1.33
1	M	56	VAL	CB-CG2	-5.69	1.33	1.52
3	R	81	ARG	CZ-NH2	-5.69	1.26	1.33
3	R	371	ARG	CG-CD	-5.69	1.35	1.52
3	1	63	ARG	CZ-NH1	-5.69	1.24	1.32
3	4	81	ARG	CZ-NH2	-5.69	1.26	1.33
1	5	56	VAL	CB-CG2	-5.69	1.33	1.52
1	A	56	VAL	CB-CG2	-5.69	1.33	1.52
3	F	255	LEU	C-N	-5.69	1.25	1.33
3	O	81	ARG	CZ-NH2	-5.69	1.26	1.33
3	O	255	LEU	CG-CD1	-5.69	1.33	1.52
3	V	423	SER	C-N	-5.69	1.26	1.33
3	1	13	PHE	CE2-CZ	-5.69	1.21	1.38
3	7	193	PRO	CG-CD	-5.69	1.31	1.50
3	7	371	ARG	CG-CD	-5.69	1.35	1.52
3	C	13	PHE	CE2-CZ	-5.69	1.21	1.38
3	R	497	VAL	CB-CG2	-5.69	1.33	1.52
3	L	13	PHE	CE2-CZ	-5.69	1.21	1.38
3	L	434[A]	MET	C-N	5.69	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	434[B]	MET	C-N	5.69	1.41	1.33
3	R	255	LEU	CG-CD1	-5.69	1.33	1.52
3	1	497	VAL	CB-CG2	-5.69	1.33	1.52
3	1	501	ALA	CA-CB	-5.69	1.44	1.53
3	4	423	SER	C-N	-5.69	1.26	1.33
3	4	433	LYS	CD-CE	-5.69	1.35	1.52
3	7	81	ARG	CZ-NH2	-5.69	1.26	1.33
2	9	157	GLU	CB-CG	-5.69	1.35	1.52
3	C	497	VAL	CB-CG2	-5.69	1.33	1.52
1	M	14	TYR	CE1-CZ	-5.69	1.24	1.38
3	1	68	LEU	CG-CD1	-5.69	1.33	1.52
3	1	221	TYR	CB-CG	-5.69	1.39	1.51
1	D	56	VAL	CB-CG2	-5.68	1.33	1.52
3	F	68	LEU	CG-CD1	-5.68	1.33	1.52
3	L	212	GLU	CA-CB	5.68	1.63	1.53
2	N	134	TRP	C-N	-5.68	1.26	1.33
2	Q	157	GLU	CB-CG	-5.68	1.35	1.52
3	R	13	PHE	CE2-CZ	-5.68	1.21	1.38
3	Y	183	ARG	C-N	-5.68	1.26	1.33
3	Y	371	ARG	CG-CD	-5.68	1.35	1.52
2	9	134	TRP	C-N	-5.68	1.26	1.33
3	U	13	PHE	CE2-CZ	-5.68	1.21	1.38
3	U	423	SER	C-N	-5.68	1.26	1.33
2	B	134	TRP	C-N	-5.68	1.26	1.33
3	C	439	LEU	CB-CG	-5.68	1.42	1.53
3	I	68	LEU	CG-CD1	-5.68	1.33	1.52
3	L	68	LEU	CG-CD1	-5.68	1.33	1.52
3	L	439	LEU	CB-CG	-5.68	1.42	1.53
3	R	170	THR	CA-C	-5.68	1.45	1.52
3	Y	212	GLU	CA-CB	5.68	1.63	1.53
3	Y	255	LEU	CG-CD1	-5.68	1.33	1.52
1	Z	56	VAL	CB-CG2	-5.68	1.33	1.52
3	1	193	PRO	CG-CD	-5.68	1.31	1.50
3	U	170	THR	CA-C	-5.68	1.45	1.52
3	C	68	LEU	CG-CD1	-5.68	1.33	1.52
3	C	484	ALA	CA-CB	-5.68	1.44	1.53
1	P	56	VAL	CB-CG2	-5.68	1.33	1.52
3	R	183	ARG	C-N	-5.68	1.26	1.33
2	T	157	GLU	CB-CG	-5.68	1.35	1.52
2	0	69	GLN	CB-CG	-5.68	1.35	1.52
3	4	255	LEU	CG-CD1	-5.68	1.33	1.52
3	4	371	ARG	CG-CD	-5.68	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	433	LYS	CD-CE	-5.68	1.35	1.52
3	R	68	LEU	CG-CD1	-5.68	1.33	1.52
3	V	193	PRO	CG-CD	-5.68	1.31	1.50
3	V	458	ILE	N-CA	-5.68	1.40	1.46
3	4	193	PRO	CG-CD	-5.68	1.31	1.50
3	7	433	LYS	CD-CE	-5.68	1.35	1.52
3	U	68	LEU	CG-CD1	-5.68	1.33	1.52
3	U	212	GLU	CA-CB	5.68	1.63	1.53
3	U	255	LEU	CG-CD1	-5.68	1.33	1.52
2	E	134	TRP	C-N	-5.68	1.26	1.33
2	K	69	GLN	CB-CG	-5.68	1.35	1.52
3	L	170	THR	CA-C	-5.68	1.45	1.52
3	Y	13	PHE	CE2-CZ	-5.68	1.21	1.38
3	4	497	VAL	CB-CG2	-5.68	1.33	1.52
3	U	484	ALA	CA-CB	-5.68	1.44	1.53
3	I	183	ARG	C-N	-5.68	1.26	1.33
3	L	433	LYS	CD-CE	-5.68	1.35	1.52
3	O	212	GLU	CA-CB	5.68	1.63	1.53
2	Q	134	TRP	C-N	-5.68	1.26	1.33
3	R	501	ALA	CA-CB	-5.68	1.44	1.53
3	Y	68	LEU	CG-CD1	-5.68	1.33	1.52
3	1	510	ALA	CA-CB	-5.68	1.43	1.53
3	4	92	ARG	NE-CZ	-5.68	1.26	1.33
2	6	134	TRP	C-N	-5.68	1.26	1.33
3	7	484	ALA	CA-CB	-5.68	1.44	1.53
2	9	117	PRO	CA-CB	-5.68	1.46	1.53
3	F	81	ARG	CZ-NH2	-5.67	1.26	1.33
3	F	423	SER	C-N	-5.67	1.26	1.33
3	I	423	SER	C-N	-5.67	1.26	1.33
2	N	157	GLU	CB-CG	-5.67	1.35	1.52
3	R	472	THR	CB-CG2	-5.67	1.33	1.52
3	R	491	ASP	C-N	-5.67	1.25	1.33
3	V	13	PHE	CE2-CZ	-5.67	1.21	1.38
3	V	255	LEU	CG-CD1	-5.67	1.33	1.52
3	Y	433	LYS	CD-CE	-5.67	1.35	1.52
3	1	255	LEU	C-N	-5.67	1.25	1.33
1	5	73	VAL	CB-CG1	-5.67	1.33	1.52
3	L	193	PRO	CG-CD	-5.67	1.31	1.50
3	V	491	ASP	C-N	-5.67	1.25	1.33
3	Y	99	ILE	C-O	-5.67	1.18	1.24
1	2	56	VAL	CB-CG2	-5.67	1.33	1.52
2	3	157	GLU	CB-CG	-5.67	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	255	LEU	CG-CD1	-5.67	1.33	1.52
3	C	255	LEU	CG-CD1	-5.67	1.33	1.52
3	F	92	ARG	NE-CZ	-5.67	1.26	1.33
3	I	434[A]	MET	C-N	5.67	1.41	1.33
3	I	434[B]	MET	C-N	5.67	1.41	1.33
3	I	497	VAL	CB-CG2	-5.67	1.33	1.52
2	K	134	TRP	C-N	-5.67	1.26	1.33
3	1	433	LYS	CD-CE	-5.67	1.35	1.52
3	4	458	ILE	N-CA	-5.67	1.40	1.46
2	E	85	PHE	CG-CD2	-5.67	1.26	1.38
3	I	13	PHE	CE2-CZ	-5.67	1.21	1.38
3	V	497	VAL	CB-CG2	-5.67	1.33	1.52
3	Y	255	LEU	C-N	-5.67	1.25	1.33
3	C	183	ARG	C-N	-5.67	1.26	1.33
3	C	193	PRO	CG-CD	-5.67	1.31	1.50
3	C	423	SER	C-N	-5.67	1.26	1.33
3	F	193	PRO	CG-CD	-5.67	1.31	1.50
3	F	255	LEU	CG-CD1	-5.67	1.33	1.52
3	F	433	LYS	CD-CE	-5.67	1.35	1.52
3	O	433	LYS	CD-CE	-5.67	1.35	1.52
3	O	439	LEU	CB-CG	-5.67	1.42	1.53
3	R	434[A]	MET	C-N	5.67	1.41	1.33
3	R	434[B]	MET	C-N	5.67	1.41	1.33
3	V	433	LYS	CD-CE	-5.67	1.35	1.52
3	V	484	ALA	CA-CB	-5.67	1.44	1.53
3	Y	193	PRO	CG-CD	-5.67	1.31	1.50
1	Z	73	VAL	CB-CG1	-5.67	1.33	1.52
3	U	99	ILE	C-O	-5.67	1.18	1.24
3	U	497	VAL	CB-CG2	-5.67	1.33	1.52
2	B	157	GLU	CB-CG	-5.67	1.35	1.52
3	F	497	VAL	CB-CG2	-5.67	1.33	1.52
3	I	221	TYR	CB-CG	-5.67	1.39	1.51
3	I	439	LEU	CB-CG	-5.67	1.42	1.53
3	O	68	LEU	CG-CD1	-5.67	1.33	1.52
3	O	445	PHE	CD2-CE2	-5.67	1.21	1.38
3	R	193	PRO	CG-CD	-5.67	1.31	1.50
3	V	510	ALA	CA-CB	-5.67	1.43	1.53
3	1	255	LEU	CG-CD1	-5.67	1.33	1.52
3	4	68	LEU	CG-CD1	-5.67	1.33	1.52
3	4	170	THR	CA-C	-5.67	1.45	1.52
3	F	434[A]	MET	C-N	5.67	1.41	1.33
3	F	434[B]	MET	C-N	5.67	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	439	LEU	CB-CG	-5.67	1.42	1.53
3	O	193	PRO	CG-CD	-5.67	1.31	1.50
3	V	68	LEU	CG-CD1	-5.67	1.33	1.52
3	7	255	LEU	C-N	-5.67	1.25	1.33
3	L	255	LEU	CG-CD1	-5.66	1.33	1.52
3	L	472	THR	CB-CG2	-5.66	1.33	1.52
3	L	501	ALA	CA-CB	-5.66	1.44	1.53
2	T	69	GLN	CB-CG	-5.66	1.35	1.52
3	Y	92	ARG	NE-CZ	-5.66	1.26	1.33
3	1	183	ARG	C-N	-5.66	1.26	1.33
2	3	69	GLN	CB-CG	-5.66	1.35	1.52
3	I	433	LYS	CD-CE	-5.66	1.35	1.52
3	I	472	THR	CB-CG2	-5.66	1.33	1.52
2	0	157	GLU	CB-CG	-5.66	1.35	1.52
3	1	484	ALA	CA-CB	-5.66	1.44	1.53
3	7	423	SER	C-N	-5.66	1.26	1.33
1	8	73	VAL	CB-CG1	-5.66	1.33	1.52
3	U	193	PRO	CG-CD	-5.66	1.31	1.50
3	U	472	THR	CB-CG2	-5.66	1.33	1.52
1	A	73	VAL	CB-CG1	-5.66	1.33	1.52
2	B	69	GLN	CB-CG	-5.66	1.35	1.52
1	D	73	VAL	CB-CG1	-5.66	1.33	1.52
3	I	212	GLU	CA-CB	5.66	1.63	1.53
1	J	56	VAL	CB-CG2	-5.66	1.33	1.52
3	L	445	PHE	CD2-CE2	-5.66	1.21	1.38
3	L	491	ASP	C-N	-5.66	1.25	1.33
2	N	69	GLN	CB-CG	-5.66	1.35	1.52
2	X	69	GLN	CB-CG	-5.66	1.35	1.52
3	Y	445	PHE	CD2-CE2	-5.66	1.21	1.38
1	2	73	VAL	CB-CG1	-5.66	1.33	1.52
3	4	472	THR	CB-CG2	-5.66	1.33	1.52
3	7	68	LEU	CG-CD1	-5.66	1.33	1.52
3	7	445	PHE	CD2-CE2	-5.66	1.21	1.38
3	C	92	ARG	NE-CZ	-5.66	1.26	1.33
3	U	183	ARG	C-N	-5.66	1.26	1.33
2	E	157	GLU	CB-CG	-5.66	1.35	1.52
3	F	472	THR	CB-CG2	-5.66	1.33	1.52
1	G	73	VAL	CB-CG1	-5.66	1.33	1.52
3	I	193	PRO	CG-CD	-5.66	1.31	1.50
3	I	445	PHE	CD2-CE2	-5.66	1.21	1.38
3	1	423	SER	C-N	-5.66	1.26	1.33
3	1	472	THR	CB-CG2	-5.66	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	472	THR	CB-CG2	-5.65	1.33	1.52
3	F	445	PHE	CD2-CE2	-5.65	1.21	1.38
3	O	442	PRO	C-N	-5.65	1.26	1.34
3	U	92	ARG	NE-CZ	-5.65	1.26	1.33
3	C	491	ASP	C-N	-5.65	1.25	1.33
3	L	255	LEU	C-N	-5.65	1.25	1.33
3	R	458	ILE	N-CA	-5.65	1.40	1.46
3	V	445	PHE	CD2-CE2	-5.65	1.21	1.38
3	Y	423	SER	C-N	-5.65	1.26	1.33
3	4	212	GLU	CA-CB	5.65	1.63	1.53
2	6	157	GLU	CB-CG	-5.65	1.35	1.52
2	9	69	GLN	CB-CG	-5.65	1.35	1.52
3	F	183	ARG	C-N	-5.65	1.26	1.33
2	H	69	GLN	CB-CG	-5.65	1.35	1.52
2	K	157	GLU	CB-CG	-5.65	1.35	1.52
1	M	73	VAL	CB-CG1	-5.65	1.33	1.52
3	O	472	THR	CB-CG2	-5.65	1.33	1.52
2	Q	69	GLN	CB-CG	-5.65	1.35	1.52
1	S	73	VAL	CB-CG1	-5.65	1.33	1.52
3	Y	81	ARG	CZ-NH2	-5.65	1.26	1.33
3	7	472	THR	CB-CG2	-5.65	1.33	1.52
3	U	434[A]	MET	C-N	5.65	1.41	1.33
3	U	434[B]	MET	C-N	5.65	1.41	1.33
3	U	491	ASP	C-N	-5.65	1.25	1.33
3	L	221	TYR	CB-CG	-5.65	1.39	1.51
3	L	458	ILE	N-CA	-5.65	1.40	1.46
2	3	117	PRO	CA-CB	-5.65	1.46	1.53
2	9	42	LEU	CG-CD1	-5.65	1.33	1.52
3	C	445	PHE	CD2-CE2	-5.65	1.21	1.38
2	E	69	GLN	CB-CG	-5.65	1.35	1.52
3	L	92	ARG	NE-CZ	-5.65	1.26	1.33
3	O	221	TYR	CB-CG	-5.65	1.39	1.51
3	R	212	GLU	CA-CB	5.65	1.63	1.53
3	R	221	TYR	CB-CG	-5.65	1.39	1.51
3	V	472	THR	CB-CG2	-5.65	1.33	1.52
3	U	221	TYR	CB-CG	-5.65	1.39	1.51
3	F	212	GLU	CA-CB	5.65	1.63	1.53
1	J	73	VAL	CB-CG1	-5.65	1.33	1.52
3	1	439	LEU	CB-CG	-5.65	1.42	1.53
3	1	491	ASP	C-N	-5.65	1.25	1.33
2	N	42	LEU	CG-CD1	-5.64	1.33	1.52
3	Y	434[A]	MET	C-N	5.64	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	434[B]	MET	C-N	5.64	1.41	1.33
2	6	42	LEU	CG-CD1	-5.64	1.33	1.52
3	F	478	TYR	CG-CD2	-5.64	1.27	1.39
3	I	255	LEU	CG-CD1	-5.64	1.33	1.52
1	W	73	VAL	CB-CG1	-5.64	1.33	1.52
2	X	157	GLU	CB-CG	-5.64	1.35	1.52
3	Y	439	LEU	CB-CG	-5.64	1.42	1.53
3	1	445	PHE	CD2-CE2	-5.64	1.21	1.38
3	4	445	PHE	CD2-CE2	-5.64	1.21	1.38
3	7	92	ARG	NE-CZ	-5.64	1.26	1.33
3	R	510	ALA	CA-CB	-5.64	1.43	1.53
2	X	134	TRP	C-N	-5.64	1.26	1.33
2	3	42	LEU	CG-CD1	-5.64	1.33	1.52
2	6	69	GLN	CB-CG	-5.64	1.35	1.52
3	C	221	TYR	CB-CG	-5.64	1.39	1.51
3	I	458	ILE	N-CA	-5.64	1.40	1.46
3	O	63	ARG	CZ-NH1	-5.64	1.24	1.32
3	R	445	PHE	CD2-CE2	-5.64	1.21	1.38
3	1	212	GLU	CA-CB	5.64	1.63	1.53
3	U	445	PHE	CD2-CE2	-5.64	1.21	1.38
3	U	433	LYS	CD-CE	-5.64	1.35	1.52
3	C	458	ILE	N-CA	-5.64	1.40	1.46
1	P	73	VAL	CB-CG1	-5.64	1.33	1.52
2	Q	85	PHE	CG-CD2	-5.64	1.27	1.38
2	X	85	PHE	CG-CD2	-5.64	1.27	1.38
3	Y	472	THR	CB-CG2	-5.64	1.33	1.52
2	3	85	PHE	CG-CD2	-5.64	1.27	1.38
3	4	221	TYR	CB-CG	-5.64	1.39	1.51
3	7	458	ILE	N-CA	-5.64	1.40	1.46
3	U	478	TYR	CG-CD2	-5.64	1.27	1.39
3	O	434[A]	MET	C-N	5.63	1.41	1.33
3	O	434[B]	MET	C-N	5.63	1.41	1.33
2	Q	42	LEU	CG-CD1	-5.63	1.33	1.52
3	R	484	ALA	CA-CB	-5.63	1.44	1.53
2	T	105	PHE	CB-CG	-5.63	1.37	1.50
3	V	478	TYR	CG-CD2	-5.63	1.27	1.39
2	0	42	LEU	CG-CD1	-5.63	1.33	1.52
2	6	85	PHE	CG-CD2	-5.63	1.27	1.38
2	H	105	PHE	CB-CG	-5.63	1.37	1.50
2	B	42	LEU	CG-CD1	-5.63	1.33	1.52
3	C	434[A]	MET	C-N	5.63	1.41	1.33
3	C	434[B]	MET	C-N	5.63	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	510	ALA	CA-CB	-5.63	1.43	1.53
3	Y	491	ASP	C-N	-5.63	1.25	1.33
3	O	478	TYR	CG-CD2	-5.63	1.27	1.39
3	R	92	ARG	NE-CZ	-5.63	1.26	1.33
3	R	115	LEU	CA-CB	-5.63	1.45	1.53
3	Y	221	TYR	CB-CG	-5.63	1.39	1.51
3	7	434[A]	MET	C-N	5.63	1.41	1.33
3	7	434[B]	MET	C-N	5.63	1.41	1.33
3	F	491	ASP	C-N	-5.63	1.25	1.33
3	O	510	ALA	CA-CB	-5.63	1.43	1.53
3	R	191	GLY	N-CA	-5.63	1.37	1.45
3	V	183	ARG	C-N	-5.63	1.26	1.33
2	X	42	LEU	CG-CD1	-5.63	1.33	1.52
3	Y	458	ILE	N-CA	-5.63	1.40	1.46
3	4	491	ASP	C-N	-5.63	1.25	1.33
3	7	478	TYR	CG-CD2	-5.63	1.27	1.39
2	H	42	LEU	CG-CD1	-5.62	1.33	1.52
3	O	92	ARG	NE-CZ	-5.62	1.26	1.33
2	T	42	LEU	CG-CD1	-5.62	1.33	1.52
3	V	434[A]	MET	C-N	5.62	1.41	1.33
3	V	434[B]	MET	C-N	5.62	1.41	1.33
3	Y	442	PRO	C-N	-5.62	1.26	1.34
3	4	434[A]	MET	C-N	5.62	1.41	1.33
3	4	434[B]	MET	C-N	5.62	1.41	1.33
2	6	105	PHE	CB-CG	-5.62	1.37	1.50
3	7	221	TYR	CB-CG	-5.62	1.39	1.51
3	U	442	PRO	C-N	-5.62	1.26	1.34
2	B	85	PHE	CG-CD2	-5.62	1.27	1.38
2	N	85	PHE	CG-CD2	-5.62	1.27	1.38
2	Q	105	PHE	CB-CG	-5.62	1.37	1.50
3	U	510	ALA	CA-CB	-5.62	1.43	1.53
3	O	491	ASP	C-N	-5.62	1.25	1.33
3	V	221	TYR	CB-CG	-5.62	1.39	1.51
3	F	221	TYR	CB-CG	-5.62	1.39	1.51
3	L	510	ALA	CA-CB	-5.62	1.43	1.53
3	1	434[A]	MET	C-N	5.62	1.41	1.33
3	1	434[B]	MET	C-N	5.62	1.41	1.33
2	3	105	PHE	CB-CG	-5.62	1.37	1.50
3	7	289	ILE	CB-CG2	-5.62	1.34	1.52
3	C	63	ARG	CZ-NH1	-5.62	1.24	1.32
3	C	510	ALA	CA-CB	-5.62	1.43	1.53
3	I	92	ARG	NE-CZ	-5.62	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	63	ARG	CZ-NH1	-5.62	1.24	1.32
3	U	63	ARG	CZ-NH1	-5.62	1.24	1.32
3	C	478	TYR	CG-CD2	-5.62	1.27	1.39
2	E	42	LEU	CG-CD1	-5.62	1.34	1.52
2	K	42	LEU	CG-CD1	-5.62	1.34	1.52
3	Y	510	ALA	CA-CB	-5.62	1.43	1.53
3	U	458	ILE	N-CA	-5.62	1.40	1.46
2	E	105	PHE	CB-CG	-5.61	1.37	1.50
3	I	245	ASP	C-N	-5.61	1.26	1.33
3	I	478	TYR	CG-CD2	-5.61	1.27	1.39
3	V	212	GLU	CA-CB	5.61	1.62	1.53
3	L	115	LEU	CA-CB	-5.61	1.45	1.53
3	R	289	ILE	CB-CG2	-5.61	1.34	1.52
3	1	92	ARG	NE-CZ	-5.61	1.26	1.33
3	F	116	VAL	C-N	-5.61	1.23	1.33
2	H	85	PHE	CG-CD2	-5.61	1.27	1.38
2	K	85	PHE	CG-CD2	-5.61	1.27	1.38
3	R	478	TYR	CG-CD2	-5.61	1.27	1.39
3	4	289	ILE	CB-CG2	-5.61	1.34	1.52
3	7	491	ASP	C-N	-5.61	1.25	1.33
3	U	115	LEU	CA-CB	-5.61	1.45	1.53
3	I	510	ALA	CA-CB	-5.61	1.43	1.53
2	0	105	PHE	CB-CG	-5.61	1.37	1.50
2	B	105	PHE	CB-CG	-5.61	1.37	1.50
3	I	442	PRO	C-N	-5.61	1.26	1.34
3	C	115	LEU	CA-CB	-5.61	1.45	1.53
3	L	478	TYR	CG-CD2	-5.61	1.27	1.39
3	Y	289	ILE	CB-CG2	-5.61	1.34	1.52
3	4	478	TYR	CG-CD2	-5.61	1.27	1.39
3	4	510	ALA	CA-CB	-5.61	1.43	1.53
3	F	115	LEU	CA-CB	-5.60	1.45	1.53
3	7	63	ARG	CZ-NH1	-5.60	1.25	1.32
3	F	289	ILE	CB-CG2	-5.60	1.34	1.52
2	Q	135	THR	CB-OG1	-5.60	1.34	1.43
3	7	442	PRO	C-N	-5.60	1.26	1.34
3	7	510	ALA	CA-CB	-5.60	1.43	1.53
3	4	63	ARG	CZ-NH1	-5.60	1.25	1.32
3	I	289	ILE	CB-CG2	-5.60	1.34	1.52
3	O	191	GLY	N-CA	-5.60	1.37	1.45
3	O	298	VAL	CB-CG1	-5.60	1.34	1.52
3	O	452	VAL	C-N	-5.60	1.25	1.33
3	V	63	ARG	CZ-NH1	-5.60	1.25	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	115	LEU	CA-CB	-5.60	1.45	1.53
2	9	85	PHE	CG-CD2	-5.60	1.27	1.38
2	9	105	PHE	CB-CG	-5.60	1.37	1.50
3	C	289	ILE	CB-CG2	-5.60	1.34	1.52
3	O	183	ARG	C-N	-5.60	1.26	1.33
3	R	63	ARG	CZ-NH1	-5.60	1.25	1.32
2	X	135	THR	CB-OG1	-5.60	1.34	1.43
3	Y	452	VAL	C-N	-5.60	1.26	1.33
2	0	85	PHE	CG-CD2	-5.60	1.27	1.38
3	7	490[A]	GLN	CD-NE2	-5.60	1.21	1.33
3	7	490[B]	GLN	CD-NE2	-5.60	1.21	1.33
3	V	115	LEU	CA-CB	-5.60	1.45	1.53
3	C	442	PRO	C-N	-5.59	1.26	1.34
3	O	458	ILE	N-CA	-5.59	1.40	1.46
2	X	105	PHE	CB-CG	-5.59	1.37	1.50
3	4	115	LEU	CA-CB	-5.59	1.45	1.53
3	R	298	VAL	CB-CG1	-5.59	1.34	1.52
3	Y	298	VAL	CB-CG1	-5.59	1.34	1.52
3	F	63	ARG	CZ-NH1	-5.59	1.25	1.32
3	I	63	ARG	CZ-NH1	-5.59	1.25	1.32
3	R	490[A]	GLN	CD-NE2	-5.59	1.21	1.33
3	R	490[B]	GLN	CD-NE2	-5.59	1.21	1.33
3	Y	478	TYR	CG-CD2	-5.59	1.27	1.39
3	7	116	VAL	C-N	-5.59	1.23	1.33
3	7	298	VAL	CB-CG1	-5.59	1.34	1.52
2	N	135	THR	CB-OG1	-5.59	1.34	1.43
3	R	442	PRO	C-N	-5.59	1.26	1.34
3	C	490[A]	GLN	CD-NE2	-5.59	1.21	1.33
3	C	490[B]	GLN	CD-NE2	-5.59	1.21	1.33
3	F	490[A]	GLN	CD-NE2	-5.59	1.21	1.33
3	F	490[B]	GLN	CD-NE2	-5.59	1.21	1.33
3	O	490[A]	GLN	CD-NE2	-5.59	1.21	1.33
3	O	490[B]	GLN	CD-NE2	-5.59	1.21	1.33
2	T	85	PHE	CG-CD2	-5.59	1.27	1.38
2	0	103	ILE	C-O	-5.59	1.18	1.24
2	E	135	THR	CB-OG1	-5.59	1.34	1.43
3	I	490[A]	GLN	CD-NE2	-5.59	1.21	1.33
3	I	490[B]	GLN	CD-NE2	-5.59	1.21	1.33
3	L	298	VAL	CB-CG1	-5.59	1.34	1.52
3	L	490[A]	GLN	CD-NE2	-5.59	1.21	1.33
3	L	490[B]	GLN	CD-NE2	-5.59	1.21	1.33
3	O	289	ILE	CB-CG2	-5.59	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	442	PRO	C-N	-5.59	1.26	1.34
2	N	105	PHE	CB-CG	-5.58	1.37	1.50
2	T	62	ASN	CG-ND2	-5.58	1.21	1.33
3	1	289	ILE	CB-CG2	-5.58	1.34	1.52
3	C	191	GLY	N-CA	-5.58	1.37	1.45
3	C	298	VAL	CB-CG1	-5.58	1.34	1.52
3	V	289	ILE	CB-CG2	-5.58	1.34	1.52
3	Y	63	ARG	CZ-NH1	-5.58	1.25	1.32
3	Y	191	GLY	N-CA	-5.58	1.37	1.45
3	1	115	LEU	CA-CB	-5.58	1.45	1.53
2	E	62	ASN	CG-ND2	-5.58	1.21	1.33
2	K	135	THR	CB-OG1	-5.58	1.34	1.43
3	V	490[A]	GLN	CD-NE2	-5.58	1.21	1.33
3	V	490[B]	GLN	CD-NE2	-5.58	1.21	1.33
3	U	289	ILE	CB-CG2	-5.58	1.34	1.52
3	I	115	LEU	CA-CB	-5.58	1.45	1.53
3	I	298	VAL	CB-CG1	-5.58	1.34	1.52
2	K	105	PHE	CB-CG	-5.58	1.37	1.50
3	L	191	GLY	N-CA	-5.58	1.37	1.45
2	N	62	ASN	CG-ND2	-5.58	1.21	1.33
3	V	298	VAL	CB-CG1	-5.58	1.34	1.52
3	Y	490[A]	GLN	CD-NE2	-5.58	1.21	1.33
3	Y	490[B]	GLN	CD-NE2	-5.58	1.21	1.33
3	1	478	TYR	CG-CD2	-5.58	1.27	1.39
3	4	442	PRO	C-N	-5.58	1.26	1.34
2	6	62	ASN	CG-ND2	-5.58	1.21	1.33
3	U	452	VAL	C-N	-5.58	1.26	1.33
3	F	191	GLY	N-CA	-5.58	1.37	1.45
3	R	116	VAL	C-N	-5.58	1.24	1.33
2	T	126	GLY	C-O	-5.58	1.16	1.23
2	0	135	THR	CB-OG1	-5.58	1.34	1.43
3	4	255	LEU	C-N	-5.58	1.25	1.33
3	F	458	ILE	N-CA	-5.58	1.40	1.46
2	K	62	ASN	CG-ND2	-5.58	1.21	1.33
3	L	289	ILE	CB-CG2	-5.58	1.34	1.52
3	1	298	VAL	CB-CG1	-5.58	1.34	1.52
3	4	298	VAL	CB-CG1	-5.58	1.34	1.52
2	N	126	GLY	C-O	-5.57	1.16	1.23
3	V	191	GLY	N-CA	-5.57	1.37	1.45
3	1	442	PRO	C-N	-5.57	1.26	1.34
3	U	490[A]	GLN	CD-NE2	-5.57	1.21	1.33
3	U	490[B]	GLN	CD-NE2	-5.57	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	442	PRO	C-N	-5.57	1.26	1.34
2	H	62	ASN	CG-ND2	-5.57	1.21	1.33
3	7	464	GLY	C-O	-5.57	1.18	1.23
3	U	298	VAL	CB-CG1	-5.57	1.34	1.52
2	X	62	ASN	CG-ND2	-5.57	1.21	1.33
3	4	245	ASP	C-N	-5.57	1.26	1.33
3	7	191	GLY	N-CA	-5.57	1.37	1.45
3	4	490[A]	GLN	CD-NE2	-5.57	1.21	1.33
3	4	490[B]	GLN	CD-NE2	-5.57	1.21	1.33
3	I	191	GLY	N-CA	-5.57	1.37	1.45
3	L	116	VAL	C-N	-5.57	1.24	1.33
3	L	302	SER	C-O	-5.57	1.17	1.23
3	U	191	GLY	N-CA	-5.57	1.37	1.45
3	O	224	HIS	CB-CG	-5.56	1.42	1.50
2	T	135	THR	CB-OG1	-5.56	1.34	1.43
2	3	62	ASN	CG-ND2	-5.56	1.21	1.33
2	B	62	ASN	CG-ND2	-5.56	1.21	1.33
2	B	135	THR	CB-OG1	-5.56	1.34	1.43
3	F	298	VAL	CB-CG1	-5.56	1.34	1.52
3	O	116	VAL	C-N	-5.56	1.24	1.33
2	3	135	THR	CB-OG1	-5.56	1.34	1.43
2	H	135	THR	CB-OG1	-5.56	1.34	1.43
3	1	204	SER	C-O	-5.56	1.17	1.23
3	1	490[A]	GLN	CD-NE2	-5.56	1.21	1.33
3	1	490[B]	GLN	CD-NE2	-5.56	1.21	1.33
3	I	452	VAL	C-N	-5.56	1.26	1.33
2	Q	62	ASN	CG-ND2	-5.56	1.21	1.33
3	C	116	VAL	C-N	-5.56	1.24	1.33
3	L	442	PRO	C-N	-5.56	1.26	1.34
3	O	115	LEU	CA-CB	-5.56	1.45	1.53
2	0	62	ASN	CG-ND2	-5.56	1.21	1.33
3	1	116	VAL	C-N	-5.56	1.24	1.33
3	4	452	VAL	C-N	-5.56	1.26	1.33
3	7	115	LEU	CA-CB	-5.56	1.45	1.53
3	F	452	VAL	C-N	-5.56	1.26	1.33
3	4	191	GLY	N-CA	-5.56	1.37	1.45
2	9	62	ASN	CG-ND2	-5.56	1.21	1.33
2	K	126	GLY	C-O	-5.55	1.16	1.23
3	Y	464	GLY	C-O	-5.55	1.18	1.23
3	V	302	SER	C-O	-5.55	1.17	1.23
3	Y	245	ASP	C-N	-5.55	1.26	1.33
2	9	126	GLY	C-O	-5.55	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	245	ASP	C-N	-5.55	1.26	1.33
2	X	116	ILE	CG1-CD1	-5.55	1.30	1.51
3	7	224	HIS	CB-CG	-5.55	1.42	1.50
2	9	135	THR	CB-OG1	-5.55	1.34	1.43
3	C	245	ASP	C-N	-5.55	1.26	1.33
3	I	116	VAL	C-N	-5.55	1.24	1.33
3	Y	395	GLU	CB-CG	-5.54	1.35	1.52
3	C	452	VAL	C-N	-5.54	1.26	1.33
3	F	76	THR	C-N	-5.54	1.27	1.33
3	F	245	ASP	C-N	-5.54	1.26	1.33
2	6	135	THR	CB-OG1	-5.54	1.34	1.43
2	6	121	LYS	CG-CD	-5.54	1.35	1.52
3	7	245	ASP	C-N	-5.54	1.26	1.33
3	U	116	VAL	C-N	-5.54	1.24	1.33
2	Q	126	GLY	C-O	-5.54	1.16	1.23
3	V	452	VAL	C-N	-5.54	1.26	1.33
3	4	440	TRP	CD1-NE1	-5.54	1.26	1.37
2	Q	77	PHE	CE1-CZ	-5.54	1.22	1.38
3	U	245	ASP	C-N	-5.54	1.26	1.33
3	C	464	GLY	C-O	-5.54	1.18	1.23
3	F	224	HIS	CB-CG	-5.54	1.42	1.50
3	R	224	HIS	CB-CG	-5.54	1.42	1.50
3	Y	116	VAL	C-N	-5.54	1.24	1.33
2	B	126	GLY	C-O	-5.53	1.16	1.23
3	V	440	TRP	CD1-NE1	-5.53	1.26	1.37
3	V	464	GLY	C-O	-5.53	1.18	1.23
3	1	245	ASP	C-N	-5.53	1.26	1.33
2	3	121	LYS	CG-CD	-5.53	1.35	1.52
3	7	395	GLU	CB-CG	-5.53	1.35	1.52
3	U	302	SER	C-O	-5.53	1.17	1.23
2	H	126	GLY	C-O	-5.53	1.16	1.23
3	4	76	THR	C-N	-5.53	1.27	1.33
3	4	116	VAL	C-N	-5.53	1.24	1.33
3	F	440	TRP	CD1-NE1	-5.53	1.26	1.37
2	H	116	ILE	CG1-CD1	-5.53	1.30	1.51
3	I	418	ILE	CG1-CD1	-5.53	1.30	1.51
2	K	103	ILE	C-O	-5.53	1.18	1.24
2	K	116	ILE	CG1-CD1	-5.53	1.30	1.51
3	O	464	GLY	C-O	-5.53	1.18	1.23
2	T	121	LYS	CG-CD	-5.53	1.35	1.52
2	3	126	GLY	C-O	-5.53	1.16	1.23
3	L	76	THR	C-N	-5.53	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	418	ILE	CG1-CD1	-5.53	1.30	1.51
3	L	418	ILE	CG1-CD1	-5.53	1.30	1.51
2	N	121	LYS	CG-CD	-5.53	1.35	1.52
3	R	452	VAL	C-N	-5.53	1.26	1.33
3	V	418	ILE	CG1-CD1	-5.53	1.30	1.51
2	0	77	PHE	CE1-CZ	-5.53	1.22	1.38
3	1	452	VAL	C-N	-5.53	1.26	1.33
2	6	116	ILE	CG1-CD1	-5.53	1.30	1.51
3	F	418	ILE	CG1-CD1	-5.53	1.30	1.51
2	K	77	PHE	CE1-CZ	-5.53	1.22	1.38
3	L	452	VAL	C-N	-5.53	1.26	1.33
2	T	116	ILE	CG1-CD1	-5.53	1.30	1.51
2	X	121	LYS	CG-CD	-5.53	1.35	1.52
3	4	418	ILE	CG1-CD1	-5.53	1.30	1.51
2	9	121	LYS	CG-CD	-5.53	1.35	1.52
2	B	121	LYS	CG-CD	-5.52	1.35	1.52
2	E	121	LYS	CG-CD	-5.52	1.35	1.52
3	L	224	HIS	CB-CG	-5.52	1.42	1.50
2	Q	121	LYS	CG-CD	-5.52	1.35	1.52
3	7	440	TRP	CD1-NE1	-5.52	1.26	1.37
2	B	116	ILE	CG1-CD1	-5.52	1.30	1.51
3	C	224	HIS	CB-CG	-5.52	1.42	1.50
2	E	126	GLY	C-O	-5.52	1.16	1.23
3	F	464	GLY	C-O	-5.52	1.18	1.23
2	K	121	LYS	CG-CD	-5.52	1.35	1.52
3	O	76	THR	C-N	-5.52	1.27	1.33
3	O	245	ASP	C-N	-5.52	1.26	1.33
2	0	116	ILE	CG1-CD1	-5.52	1.30	1.51
2	0	121	LYS	CG-CD	-5.52	1.35	1.52
2	3	116	ILE	CG1-CD1	-5.52	1.30	1.51
3	4	224	HIS	CB-CG	-5.52	1.42	1.50
2	9	116	ILE	CG1-CD1	-5.52	1.30	1.51
3	C	418	ILE	CG1-CD1	-5.52	1.30	1.51
3	F	302	SER	C-O	-5.52	1.17	1.23
3	U	418	ILE	CG1-CD1	-5.52	1.30	1.51
2	N	116	ILE	CG1-CD1	-5.52	1.30	1.51
3	R	245	ASP	C-N	-5.52	1.26	1.33
3	Y	98	GLY	C-O	-5.52	1.18	1.24
3	F	395	GLU	CB-CG	-5.52	1.35	1.52
3	I	395	GLU	CB-CG	-5.52	1.35	1.52
2	N	77	PHE	CE1-CZ	-5.52	1.22	1.38
3	R	418	ILE	CG1-CD1	-5.52	1.30	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	191	GLY	N-CA	-5.52	1.37	1.45
3	F	204	SER	C-O	-5.52	1.17	1.23
2	X	77	PHE	CE1-CZ	-5.52	1.22	1.38
2	E	77	PHE	CE1-CZ	-5.51	1.22	1.38
2	E	103	ILE	C-O	-5.51	1.18	1.24
2	Q	116	ILE	CG1-CD1	-5.51	1.30	1.51
3	4	395	GLU	CB-CG	-5.51	1.35	1.52
3	4	464	GLY	C-O	-5.51	1.18	1.23
2	6	103	ILE	C-O	-5.51	1.18	1.24
2	6	126	GLY	C-O	-5.51	1.16	1.23
2	B	77	PHE	CE1-CZ	-5.51	1.22	1.38
3	C	395	GLU	CB-CG	-5.51	1.35	1.52
3	V	395	GLU	CB-CG	-5.51	1.35	1.52
3	R	464	GLY	C-O	-5.51	1.18	1.23
2	T	77	PHE	CE1-CZ	-5.51	1.22	1.38
3	Y	76	THR	C-N	-5.51	1.27	1.33
2	0	126	GLY	C-O	-5.51	1.16	1.23
3	1	224	HIS	CB-CG	-5.51	1.42	1.50
3	7	418	ILE	CG1-CD1	-5.51	1.30	1.51
3	C	302	SER	C-O	-5.51	1.17	1.23
3	I	224	HIS	CB-CG	-5.51	1.42	1.50
3	O	302	SER	C-O	-5.51	1.17	1.23
3	V	116	VAL	C-N	-5.51	1.24	1.33
2	X	103	ILE	C-O	-5.51	1.18	1.24
3	1	418	ILE	CG1-CD1	-5.51	1.30	1.51
2	9	77	PHE	CE1-CZ	-5.51	1.22	1.38
3	U	395	GLU	CB-CG	-5.51	1.35	1.52
3	U	464	GLY	C-O	-5.51	1.18	1.23
2	Q	103	ILE	C-O	-5.51	1.18	1.24
2	H	121	LYS	CG-CD	-5.51	1.35	1.52
3	I	464	GLY	C-O	-5.51	1.18	1.23
2	T	103	ILE	C-O	-5.51	1.18	1.24
3	Y	418	ILE	CG1-CD1	-5.51	1.30	1.51
3	7	76	THR	C-N	-5.50	1.27	1.33
3	R	395	GLU	CB-CG	-5.50	1.35	1.52
3	4	207	ARG	CZ-NH2	-5.50	1.26	1.33
3	C	76	THR	C-N	-5.50	1.27	1.33
3	C	440	TRP	CD1-NE1	-5.50	1.26	1.37
3	Y	204	SER	C-O	-5.50	1.17	1.23
2	X	126	GLY	C-O	-5.50	1.16	1.23
2	E	116	ILE	CG1-CD1	-5.50	1.30	1.51
3	O	98	GLY	C-O	-5.50	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	395	GLU	CB-CG	-5.50	1.35	1.52
3	1	395	GLU	CB-CG	-5.50	1.35	1.52
2	3	77	PHE	CE1-CZ	-5.50	1.22	1.38
3	U	207	ARG	CZ-NH2	-5.50	1.26	1.33
3	1	416	PRO	CA-CB	-5.50	1.46	1.53
3	1	464	GLY	C-O	-5.50	1.18	1.23
3	7	98	GLY	C-O	-5.50	1.18	1.24
3	7	204	SER	C-O	-5.50	1.17	1.23
3	U	204	SER	C-O	-5.50	1.17	1.23
3	1	440	TRP	CD1-NE1	-5.50	1.26	1.37
3	C	204	SER	C-O	-5.49	1.17	1.23
3	L	395	GLU	CB-CG	-5.49	1.35	1.52
2	Q	91	TYR	CG-CD2	-5.49	1.27	1.39
3	V	245	ASP	C-N	-5.49	1.26	1.33
2	9	87	ARG	NE-CZ	-5.49	1.27	1.33
2	9	91	TYR	CG-CD2	-5.49	1.27	1.39
3	U	440	TRP	CD1-NE1	-5.49	1.26	1.37
2	B	103	ILE	C-O	-5.49	1.18	1.24
2	H	77	PHE	CE1-CZ	-5.49	1.22	1.38
2	N	91	TYR	CG-CD2	-5.49	1.27	1.39
2	6	77	PHE	CE1-CZ	-5.49	1.22	1.38
3	7	452	VAL	C-N	-5.49	1.26	1.33
3	U	224	HIS	CB-CG	-5.49	1.42	1.50
3	L	440	TRP	CD1-NE1	-5.49	1.26	1.37
2	T	91	TYR	CG-CD2	-5.49	1.27	1.39
2	0	87	ARG	NE-CZ	-5.49	1.27	1.33
3	Y	302	SER	C-O	-5.48	1.17	1.23
2	H	91	TYR	CG-CD2	-5.48	1.27	1.39
3	R	76	THR	C-N	-5.48	1.27	1.33
3	R	302	SER	C-O	-5.48	1.17	1.23
3	Y	440	TRP	CD1-NE1	-5.48	1.26	1.37
3	1	232	ASN	CG-ND2	-5.48	1.21	1.33
3	O	440	TRP	CD1-NE1	-5.48	1.26	1.37
3	Y	207	ARG	CZ-NH2	-5.48	1.26	1.33
3	1	302	SER	C-O	-5.48	1.17	1.23
3	F	207	ARG	CZ-NH2	-5.48	1.26	1.33
2	H	103	ILE	C-O	-5.48	1.18	1.24
3	I	204	SER	C-O	-5.48	1.17	1.23
3	I	352	VAL	CB-CG2	-5.48	1.34	1.52
3	Y	224	HIS	CB-CG	-5.48	1.42	1.50
3	U	76	THR	CB-OG1	-5.48	1.34	1.43
3	R	98	GLY	C-O	-5.48	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	0	91	TYR	CG-CD2	-5.48	1.27	1.39
3	4	232	ASN	CG-ND2	-5.48	1.21	1.33
3	I	207	ARG	CZ-NH2	-5.47	1.26	1.33
3	I	440	TRP	CD1-NE1	-5.47	1.26	1.37
2	X	91	TYR	CG-CD2	-5.47	1.27	1.39
3	Y	352	VAL	CB-CG2	-5.47	1.34	1.52
3	4	302	SER	C-O	-5.47	1.17	1.23
3	R	232	ASN	CG-ND2	-5.47	1.21	1.33
3	R	352	VAL	CB-CG2	-5.47	1.34	1.52
3	R	440	TRP	CD1-NE1	-5.47	1.26	1.37
3	1	76	THR	C-N	-5.47	1.27	1.33
3	4	407[A]	ARG	NE-CZ	-5.47	1.27	1.33
3	4	407[B]	ARG	NE-CZ	-5.47	1.27	1.33
2	X	87	ARG	NE-CZ	-5.47	1.27	1.33
3	Y	232	ASN	CG-ND2	-5.47	1.21	1.33
3	4	204	SER	C-O	-5.47	1.17	1.23
3	O	204	SER	C-O	-5.47	1.17	1.23
1	P	58[A]	LYS	CB-CG	-5.47	1.36	1.52
1	P	58[B]	LYS	CB-CG	-5.47	1.36	1.52
3	R	204	SER	C-O	-5.47	1.17	1.23
2	E	91	TYR	CG-CD2	-5.47	1.27	1.39
3	L	204	SER	C-O	-5.47	1.17	1.23
3	L	352	VAL	CB-CG2	-5.47	1.34	1.52
3	4	416	PRO	CA-CB	-5.47	1.46	1.53
2	B	91	TYR	CG-CD2	-5.46	1.27	1.39
1	5	58[A]	LYS	CB-CG	-5.46	1.36	1.52
1	5	58[B]	LYS	CB-CG	-5.46	1.36	1.52
3	7	352	VAL	CB-CG2	-5.46	1.34	1.52
3	I	76	THR	C-N	-5.46	1.27	1.33
3	V	232	ASN	CG-ND2	-5.46	1.21	1.33
3	C	232	ASN	CG-ND2	-5.46	1.21	1.33
3	F	232	ASN	CG-ND2	-5.46	1.21	1.33
3	O	59	ASN	C-N	-5.46	1.25	1.33
1	S	58[A]	LYS	CB-CG	-5.46	1.36	1.52
1	S	58[B]	LYS	CB-CG	-5.46	1.36	1.52
3	1	352	VAL	CB-CG2	-5.46	1.34	1.52
3	7	206	GLY	N-CA	5.46	1.50	1.45
3	U	232	ASN	CG-ND2	-5.46	1.21	1.33
3	7	302	SER	C-O	-5.46	1.17	1.23
3	C	352	VAL	CB-CG2	-5.46	1.34	1.52
3	O	232	ASN	CG-ND2	-5.46	1.21	1.33
2	N	87	ARG	NE-CZ	-5.46	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	352	VAL	CB-CG2	-5.46	1.34	1.52
2	Q	87	ARG	NE-CZ	-5.46	1.27	1.33
3	V	224	HIS	CB-CG	-5.46	1.42	1.50
1	J	86	PHE	CE1-CZ	-5.45	1.22	1.38
3	L	207	ARG	CZ-NH2	-5.45	1.26	1.33
2	9	103	ILE	C-O	-5.45	1.18	1.24
3	I	302	SER	C-O	-5.45	1.17	1.23
3	7	76	THR	CB-OG1	-5.45	1.35	1.43
3	7	560	ILE	CB-CG2	-5.45	1.34	1.52
1	P	86	PHE	CE1-CZ	-5.45	1.22	1.38
3	V	206	GLY	N-CA	5.45	1.50	1.45
1	W	58[A]	LYS	CB-CG	-5.45	1.36	1.52
1	W	58[B]	LYS	CB-CG	-5.45	1.36	1.52
3	Y	206	GLY	N-CA	5.45	1.50	1.45
3	7	416	PRO	CA-CB	-5.45	1.46	1.53
3	C	207	ARG	CZ-NH2	-5.45	1.26	1.33
3	F	352	VAL	CB-CG2	-5.45	1.34	1.52
1	J	58[A]	LYS	CB-CG	-5.45	1.36	1.52
1	J	58[B]	LYS	CB-CG	-5.45	1.36	1.52
3	V	204	SER	C-O	-5.45	1.17	1.23
2	3	91	TYR	CG-CD2	-5.45	1.27	1.39
3	4	352	VAL	CB-CG2	-5.45	1.34	1.52
2	N	103	ILE	C-O	-5.45	1.18	1.24
2	N	145	ARG	C-O	-5.45	1.17	1.24
3	V	76	THR	C-N	-5.45	1.27	1.33
3	V	416	PRO	CA-CB	-5.45	1.46	1.53
3	1	76	THR	CB-OG1	-5.45	1.35	1.43
3	1	407[A]	ARG	NE-CZ	-5.45	1.27	1.33
3	1	407[B]	ARG	NE-CZ	-5.45	1.27	1.33
3	I	560	ILE	CB-CG2	-5.44	1.34	1.52
3	O	206	GLY	N-CA	5.44	1.50	1.45
3	O	416	PRO	CA-CB	-5.44	1.46	1.53
3	1	206	GLY	N-CA	5.44	1.50	1.45
1	2	86	PHE	CE1-CZ	-5.44	1.22	1.38
3	U	76	THR	C-N	-5.44	1.27	1.33
2	K	91	TYR	CG-CD2	-5.44	1.27	1.39
3	L	206	GLY	N-CA	5.44	1.50	1.45
3	L	376	TRP	CD2-CE2	-5.44	1.32	1.41
1	M	86	PHE	CE1-CZ	-5.44	1.22	1.38
3	Y	376	TRP	CD2-CE2	-5.44	1.32	1.41
3	4	59	ASN	C-N	-5.44	1.25	1.33
3	7	185	MET	CA-CB	-5.44	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	86	PHE	CE1-CZ	-5.44	1.22	1.38
1	A	58[A]	LYS	CB-CG	-5.44	1.36	1.52
1	A	58[B]	LYS	CB-CG	-5.44	1.36	1.52
1	5	86	PHE	CE1-CZ	-5.44	1.22	1.38
3	U	416	PRO	CA-CB	-5.44	1.46	1.53
3	L	560	ILE	CB-CG2	-5.44	1.34	1.52
3	R	207	ARG	CZ-NH2	-5.44	1.26	1.33
1	Z	58[A]	LYS	CB-CG	-5.44	1.36	1.52
1	Z	58[B]	LYS	CB-CG	-5.44	1.36	1.52
2	3	103	ILE	C-O	-5.44	1.18	1.24
3	C	560	ILE	CB-CG2	-5.44	1.34	1.52
3	O	352	VAL	CB-CG2	-5.44	1.34	1.52
1	2	58[A]	LYS	CB-CG	-5.44	1.36	1.52
1	2	58[B]	LYS	CB-CG	-5.44	1.36	1.52
3	U	560	ILE	CB-CG2	-5.44	1.34	1.52
1	A	86	PHE	CE1-CZ	-5.43	1.22	1.38
3	C	76	THR	CB-OG1	-5.43	1.35	1.43
1	D	58[A]	LYS	CB-CG	-5.43	1.36	1.52
1	D	58[B]	LYS	CB-CG	-5.43	1.36	1.52
3	L	464	GLY	C-O	-5.43	1.18	1.23
1	M	58[A]	LYS	CB-CG	-5.43	1.36	1.52
1	M	58[B]	LYS	CB-CG	-5.43	1.36	1.52
3	R	195	ASN	C-O	-5.43	1.17	1.23
3	R	560	ILE	CB-CG2	-5.43	1.34	1.52
1	8	58[A]	LYS	CB-CG	-5.43	1.36	1.52
1	8	58[B]	LYS	CB-CG	-5.43	1.36	1.52
3	U	352	VAL	CB-CG2	-5.43	1.34	1.52
2	B	87	ARG	NE-CZ	-5.43	1.27	1.33
3	I	59	ASN	C-N	-5.43	1.25	1.33
3	I	350	GLU	CD-OE1	-5.43	1.15	1.25
3	V	28	LEU	CG-CD2	-5.43	1.34	1.52
3	1	207	ARG	CZ-NH2	-5.43	1.26	1.33
3	4	560	ILE	CB-CG2	-5.43	1.34	1.52
1	G	86	PHE	CE1-CZ	-5.43	1.22	1.38
3	R	113	PRO	CG-CD	-5.43	1.32	1.50
3	U	113	PRO	CG-CD	-5.43	1.32	1.50
1	G	58[A]	LYS	CB-CG	-5.43	1.36	1.52
1	G	58[B]	LYS	CB-CG	-5.43	1.36	1.52
3	O	113	PRO	CG-CD	-5.43	1.32	1.50
3	O	560	ILE	CB-CG2	-5.43	1.34	1.52
3	R	28	LEU	CG-CD2	-5.43	1.34	1.52
3	V	76	THR	CB-OG1	-5.43	1.35	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3	99	SER	C-N	-5.43	1.26	1.33
1	D	86	PHE	CE1-CZ	-5.43	1.22	1.38
3	I	232	ASN	CG-ND2	-5.43	1.21	1.33
3	C	206	GLY	N-CA	5.43	1.50	1.45
3	C	416	PRO	CA-CB	-5.43	1.46	1.53
3	I	28	LEU	CG-CD2	-5.43	1.34	1.52
3	L	113	PRO	CG-CD	-5.43	1.32	1.50
3	Y	560	ILE	CB-CG2	-5.43	1.34	1.52
3	7	376	TRP	CD2-CE2	-5.43	1.32	1.41
1	8	90	SER	C-N	-5.43	1.25	1.33
3	C	113	PRO	CG-CD	-5.42	1.32	1.50
3	O	207	ARG	CZ-NH2	-5.42	1.26	1.33
1	S	86	PHE	CE1-CZ	-5.42	1.22	1.38
3	Y	113	PRO	CG-CD	-5.42	1.32	1.50
3	Y	416	PRO	CA-CB	-5.42	1.46	1.53
2	3	145	ARG	C-O	-5.42	1.17	1.24
3	I	416	PRO	CA-CB	-5.42	1.46	1.53
2	K	87	ARG	NE-CZ	-5.42	1.27	1.33
3	V	113	PRO	CG-CD	-5.42	1.32	1.50
1	Z	86	PHE	CE1-CZ	-5.42	1.22	1.38
3	7	59	ASN	C-N	-5.42	1.25	1.33
3	7	113	PRO	CG-CD	-5.42	1.32	1.50
3	7	232	ASN	CG-ND2	-5.42	1.21	1.33
3	F	28	LEU	CG-CD2	-5.42	1.34	1.52
3	F	416	PRO	CA-CB	-5.42	1.46	1.53
3	F	560	ILE	CB-CG2	-5.42	1.34	1.52
2	K	99	SER	C-N	-5.42	1.26	1.33
3	L	407[A]	ARG	NE-CZ	-5.42	1.27	1.33
3	L	407[B]	ARG	NE-CZ	-5.42	1.27	1.33
3	R	350	GLU	CD-OE1	-5.42	1.15	1.25
2	X	54	PRO	CG-CD	-5.42	1.32	1.50
3	4	113	PRO	CG-CD	-5.42	1.32	1.50
3	4	206	GLY	N-CA	5.42	1.50	1.45
2	6	91	TYR	CG-CD2	-5.42	1.27	1.39
3	L	28	LEU	CG-CD2	-5.42	1.34	1.52
3	C	376	TRP	CD2-CE2	-5.42	1.32	1.41
3	I	206	GLY	N-CA	5.42	1.50	1.45
2	K	54	PRO	CG-CD	-5.42	1.32	1.50
3	R	473	PRO	N-CA	-5.42	1.40	1.47
3	V	560	ILE	CB-CG2	-5.42	1.34	1.52
3	1	473	PRO	N-CA	-5.42	1.40	1.47
3	C	59	ASN	C-N	-5.42	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	87	ARG	NE-CZ	-5.42	1.27	1.33
3	L	76	THR	CB-OG1	-5.42	1.35	1.43
2	Q	145	ARG	C-O	-5.42	1.17	1.24
3	R	59	ASN	C-N	-5.42	1.25	1.33
3	V	207	ARG	CZ-NH2	-5.42	1.26	1.33
3	Y	407[A]	ARG	NE-CZ	-5.42	1.27	1.33
3	Y	407[B]	ARG	NE-CZ	-5.42	1.27	1.33
3	1	113	PRO	CG-CD	-5.42	1.32	1.50
3	1	431	VAL	C-N	-5.42	1.25	1.33
3	7	183	ARG	CD-NE	-5.42	1.38	1.46
3	I	76	THR	CB-OG1	-5.42	1.35	1.43
2	T	87	ARG	NE-CZ	-5.42	1.27	1.33
3	Y	76	THR	CB-OG1	-5.42	1.35	1.43
3	4	376	TRP	CD2-CE2	-5.42	1.32	1.41
3	U	59	ASN	C-N	-5.42	1.25	1.33
3	F	376	TRP	CD2-CE2	-5.41	1.32	1.41
3	R	76	THR	CB-OG1	-5.41	1.35	1.43
3	V	59	ASN	C-N	-5.41	1.25	1.33
3	4	76	THR	CB-OG1	-5.41	1.35	1.43
3	U	350	GLU	CD-OE1	-5.41	1.15	1.25
3	I	113	PRO	CG-CD	-5.41	1.32	1.50
3	L	195	ASN	C-O	-5.41	1.17	1.23
3	O	76	THR	CB-OG1	-5.41	1.35	1.43
1	W	86	PHE	CE1-CZ	-5.41	1.22	1.38
3	Y	195	ASN	C-O	-5.41	1.17	1.23
3	1	560	ILE	CB-CG2	-5.41	1.34	1.52
3	F	113	PRO	CG-CD	-5.41	1.32	1.50
3	I	195	ASN	C-O	-5.41	1.17	1.23
3	O	185	MET	CA-CB	-5.41	1.44	1.53
3	O	376	TRP	CD2-CE2	-5.41	1.32	1.41
3	Y	183	ARG	CD-NE	-5.41	1.38	1.46
3	Y	473	PRO	N-CA	-5.41	1.40	1.47
3	4	195	ASN	C-O	-5.41	1.17	1.23
3	I	376	TRP	CD2-CE2	-5.41	1.32	1.41
3	L	59	ASN	C-N	-5.41	1.25	1.33
3	L	185	MET	CA-CB	-5.41	1.44	1.53
3	O	195	ASN	C-O	-5.41	1.17	1.23
2	X	145	ARG	C-O	-5.41	1.17	1.24
3	7	207	ARG	CZ-NH2	-5.41	1.26	1.33
2	9	54	PRO	CG-CD	-5.41	1.32	1.50
3	C	28	LEU	CG-CD2	-5.41	1.34	1.52
3	R	416	PRO	CA-CB	-5.41	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	V	376	TRP	CD2-CE2	-5.41	1.32	1.41
1	2	90	SER	C-N	-5.41	1.25	1.33
3	C	407[A]	ARG	NE-CZ	-5.41	1.27	1.33
3	C	407[B]	ARG	NE-CZ	-5.41	1.27	1.33
2	E	54	PRO	CG-CD	-5.41	1.32	1.50
3	F	206	GLY	N-CA	5.41	1.50	1.45
3	L	232	ASN	CG-ND2	-5.41	1.21	1.33
2	T	54	PRO	CG-CD	-5.41	1.32	1.50
3	1	185	MET	CA-CB	-5.41	1.44	1.53
3	F	81	ARG	CG-CD	-5.40	1.36	1.52
2	K	145	ARG	C-O	-5.40	1.17	1.24
3	F	76	THR	CB-OG1	-5.40	1.35	1.43
3	F	195	ASN	C-O	-5.40	1.17	1.23
3	L	416	PRO	CA-CB	-5.40	1.46	1.53
1	Z	90	SER	C-N	-5.40	1.25	1.33
3	1	59	ASN	C-N	-5.40	1.25	1.33
2	6	54	PRO	CG-CD	-5.40	1.32	1.50
3	7	28	LEU	CG-CD2	-5.40	1.34	1.52
2	B	54	PRO	CG-CD	-5.40	1.32	1.50
2	H	87	ARG	NE-CZ	-5.40	1.27	1.33
3	I	431	VAL	C-N	-5.40	1.25	1.33
2	0	54	PRO	CG-CD	-5.40	1.32	1.50
3	4	28	LEU	CG-CD2	-5.40	1.34	1.52
3	7	195	ASN	C-O	-5.40	1.17	1.23
3	U	183	ARG	CD-NE	-5.40	1.38	1.46
3	R	81	ARG	CG-CD	-5.40	1.36	1.52
3	U	565	MET	C-O	-5.40	1.16	1.23
3	C	195	ASN	C-O	-5.40	1.17	1.23
3	F	460	TRP	CB-CG	-5.40	1.33	1.50
3	L	350	GLU	CD-OE1	-5.40	1.15	1.25
3	O	460	TRP	CB-CG	-5.40	1.33	1.50
3	R	185	MET	CA-CB	-5.40	1.44	1.53
3	R	565	MET	C-O	-5.40	1.16	1.23
3	V	460	TRP	CB-CG	-5.40	1.33	1.50
3	1	350	GLU	CD-OE1	-5.40	1.15	1.25
2	6	145	ARG	C-O	-5.40	1.17	1.24
3	U	28	LEU	CG-CD2	-5.40	1.34	1.52
3	F	59	ASN	C-N	-5.40	1.25	1.33
3	R	407[A]	ARG	NE-CZ	-5.40	1.27	1.33
3	R	407[B]	ARG	NE-CZ	-5.40	1.27	1.33
3	V	350	GLU	CD-OE1	-5.40	1.15	1.25
3	Y	28	LEU	CG-CD2	-5.40	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	350	GLU	CD-OE1	-5.39	1.15	1.25
2	E	145	ARG	C-O	-5.39	1.17	1.24
2	H	54	PRO	CG-CD	-5.39	1.32	1.50
3	L	460	TRP	CB-CG	-5.39	1.33	1.50
3	1	28	LEU	CG-CD2	-5.39	1.34	1.52
3	7	460	TRP	CB-CG	-5.39	1.33	1.50
3	O	28	LEU	CG-CD2	-5.39	1.34	1.52
2	Q	54	PRO	CG-CD	-5.39	1.32	1.50
3	U	376	TRP	CD2-CE2	-5.39	1.32	1.41
3	F	350	GLU	CD-OE1	-5.39	1.15	1.25
2	N	99	SER	C-N	-5.39	1.26	1.33
3	Y	29	PHE	CD2-CE2	-5.39	1.22	1.38
2	0	99	SER	C-N	-5.39	1.26	1.33
3	1	460	TRP	CB-CG	-5.39	1.33	1.50
3	4	98	GLY	C-O	-5.39	1.18	1.24
3	4	350	GLU	CD-OE1	-5.39	1.15	1.25
3	7	350	GLU	CD-OE1	-5.39	1.15	1.25
3	7	431	VAL	C-N	-5.39	1.25	1.33
3	U	473	PRO	N-CA	-5.39	1.40	1.47
2	B	145	ARG	C-O	-5.39	1.17	1.24
3	7	473	PRO	N-CA	-5.39	1.40	1.47
3	R	431	VAL	C-N	-5.39	1.25	1.33
3	R	460	TRP	CB-CG	-5.39	1.33	1.50
3	R	496	PHE	CG-CD1	-5.39	1.27	1.38
3	1	192	LEU	C-N	-5.39	1.21	1.33
2	3	54	PRO	CG-CD	-5.39	1.32	1.50
3	C	460	TRP	CB-CG	-5.38	1.33	1.50
3	O	238	LEU	CG-CD1	-5.38	1.34	1.52
1	W	15	THR	C-O	-5.38	1.17	1.24
3	1	81	ARG	CG-CD	-5.38	1.36	1.52
3	I	460	TRP	CB-CG	-5.38	1.33	1.50
3	Y	185	MET	CA-CB	-5.38	1.44	1.53
3	7	29	PHE	CD2-CE2	-5.38	1.22	1.38
3	U	206	GLY	N-CA	5.38	1.50	1.45
3	U	238	LEU	CG-CD1	-5.38	1.34	1.52
1	A	90	SER	C-N	-5.38	1.25	1.33
3	F	29	PHE	CD2-CE2	-5.38	1.22	1.38
3	L	29	PHE	CD2-CE2	-5.38	1.22	1.38
3	O	183	ARG	CD-NE	-5.38	1.38	1.46
3	1	376	TRP	CD2-CE2	-5.38	1.32	1.41
2	6	87	ARG	NE-CZ	-5.38	1.27	1.33
3	U	265	ILE	CG1-CD1	-5.38	1.30	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	15	THR	C-O	-5.38	1.17	1.24
3	V	185	MET	CA-CB	-5.38	1.44	1.53
3	Y	238	LEU	CG-CD1	-5.38	1.34	1.52
3	1	29	PHE	CD2-CE2	-5.38	1.22	1.38
3	4	29	PHE	CD2-CE2	-5.38	1.22	1.38
3	C	185	MET	CA-CB	-5.38	1.44	1.53
3	I	496	PHE	CG-CD1	-5.38	1.27	1.38
3	V	238	LEU	CG-CD1	-5.38	1.34	1.52
3	Y	460	TRP	CB-CG	-5.38	1.33	1.50
3	1	195	ASN	C-O	-5.38	1.17	1.23
3	7	238	LEU	CG-CD1	-5.38	1.34	1.52
3	U	185	MET	CA-CB	-5.38	1.44	1.53
3	U	460	TRP	CB-CG	-5.38	1.33	1.50
2	B	99	SER	C-N	-5.38	1.26	1.33
3	I	81	ARG	CG-CD	-5.38	1.36	1.52
3	R	29	PHE	CD2-CE2	-5.38	1.22	1.38
3	R	206	GLY	N-CA	5.38	1.50	1.45
3	R	376	TRP	CD2-CE2	-5.38	1.32	1.41
3	1	200	GLY	C-O	-5.38	1.15	1.23
3	7	565	MET	C-O	-5.38	1.16	1.23
3	U	407[A]	ARG	NE-CZ	-5.38	1.27	1.33
3	U	407[B]	ARG	NE-CZ	-5.38	1.27	1.33
1	P	90	SER	C-N	-5.38	1.25	1.33
3	C	81	ARG	CG-CD	-5.37	1.36	1.52
3	C	238	LEU	CG-CD1	-5.37	1.34	1.52
3	F	185	MET	CA-CB	-5.37	1.44	1.53
3	I	29	PHE	CD2-CE2	-5.37	1.22	1.38
1	J	90	SER	C-N	-5.37	1.25	1.33
2	N	54	PRO	CG-CD	-5.37	1.32	1.50
3	V	81	ARG	CG-CD	-5.37	1.36	1.52
3	V	265	ILE	CG1-CD1	-5.37	1.30	1.51
3	C	431	VAL	C-N	-5.37	1.25	1.33
3	F	238	LEU	CG-CD1	-5.37	1.34	1.52
3	L	238	LEU	CG-CD1	-5.37	1.34	1.52
1	M	90	SER	C-N	-5.37	1.25	1.33
2	T	145	ARG	C-O	-5.37	1.17	1.24
3	V	565	MET	C-O	-5.37	1.16	1.23
3	4	185	MET	CA-CB	-5.37	1.44	1.53
3	7	81	ARG	CG-CD	-5.37	1.36	1.52
3	7	192	LEU	C-N	-5.37	1.21	1.33
3	U	431	VAL	C-N	-5.37	1.25	1.33
3	C	29	PHE	CD2-CE2	-5.37	1.22	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	431	VAL	C-N	-5.37	1.25	1.33
1	P	15	THR	C-O	-5.37	1.17	1.24
3	4	460	TRP	CB-CG	-5.37	1.33	1.50
1	5	15	THR	C-O	-5.37	1.17	1.24
3	F	155	GLY	N-CA	-5.37	1.37	1.45
3	I	473	PRO	N-CA	-5.37	1.40	1.47
1	S	90	SER	C-N	-5.37	1.25	1.33
3	V	496	PHE	CG-CD1	-5.37	1.27	1.38
2	9	145	ARG	C-O	-5.37	1.17	1.24
3	U	81	ARG	CG-CD	-5.37	1.36	1.52
1	A	15	THR	C-O	-5.37	1.17	1.24
1	D	90	SER	C-N	-5.37	1.25	1.33
3	F	192	LEU	C-N	-5.37	1.21	1.33
3	7	387	LYS	CE-NZ	-5.37	1.33	1.49
1	G	90	SER	C-N	-5.37	1.25	1.33
3	I	238	LEU	CG-CD1	-5.37	1.34	1.52
3	L	265	ILE	CG1-CD1	-5.37	1.30	1.51
3	O	350	GLU	CD-OE1	-5.37	1.15	1.25
3	O	565	MET	C-O	-5.37	1.16	1.23
3	C	473	PRO	N-CA	-5.36	1.40	1.47
3	F	407[A]	ARG	NE-CZ	-5.36	1.27	1.33
3	F	407[B]	ARG	NE-CZ	-5.36	1.27	1.33
3	F	473	PRO	N-CA	-5.36	1.40	1.47
3	O	200	GLY	C-O	-5.36	1.15	1.23
3	O	265	ILE	CG1-CD1	-5.36	1.30	1.51
3	V	387	LYS	CE-NZ	-5.36	1.33	1.49
1	W	90	SER	C-N	-5.36	1.25	1.33
3	Y	350	GLU	CD-OE1	-5.36	1.15	1.25
3	Y	431	VAL	C-N	-5.36	1.25	1.33
3	1	238	LEU	CG-CD1	-5.36	1.34	1.52
3	7	496	PHE	CG-CD1	-5.36	1.27	1.38
2	9	99	SER	C-N	-5.36	1.26	1.33
3	L	155	GLY	N-CA	-5.36	1.37	1.45
3	4	473	PRO	N-CA	-5.36	1.40	1.47
3	C	183	ARG	CD-NE	-5.36	1.38	1.46
2	H	145	ARG	C-O	-5.36	1.17	1.24
3	V	407[A]	ARG	NE-CZ	-5.36	1.27	1.33
3	V	407[B]	ARG	NE-CZ	-5.36	1.27	1.33
2	X	99	SER	C-N	-5.36	1.26	1.33
3	Y	81	ARG	CG-CD	-5.36	1.36	1.52
3	Y	387	LYS	CE-NZ	-5.36	1.33	1.49
3	1	183	ARG	CD-NE	-5.36	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3	87	ARG	NE-CZ	-5.36	1.27	1.33
3	4	23	LEU	C-N	-5.36	1.26	1.33
3	4	265	ILE	CG1-CD1	-5.36	1.30	1.51
3	4	496	PHE	CG-CD1	-5.36	1.27	1.38
3	L	81	ARG	CG-CD	-5.36	1.36	1.52
2	T	99	SER	C-N	-5.36	1.26	1.33
3	V	29	PHE	CD2-CE2	-5.36	1.22	1.38
3	Y	496	PHE	CG-CD1	-5.36	1.27	1.38
3	U	195	ASN	C-O	-5.36	1.17	1.23
3	C	565	MET	C-O	-5.36	1.16	1.23
1	M	15	THR	C-O	-5.36	1.17	1.24
2	N	117	PRO	C-N	-5.36	1.26	1.33
3	O	81	ARG	CG-CD	-5.36	1.36	1.52
2	Q	99	SER	C-N	-5.36	1.26	1.33
2	0	145	ARG	C-O	-5.36	1.17	1.24
3	4	238	LEU	CG-CD1	-5.36	1.34	1.52
3	U	29	PHE	CD2-CE2	-5.36	1.22	1.38
3	C	265	ILE	CG1-CD1	-5.36	1.30	1.51
3	I	155	GLY	N-CA	-5.36	1.37	1.45
3	L	372	VAL	CB-CG2	-5.36	1.34	1.52
3	Y	23	LEU	C-N	-5.36	1.26	1.33
3	Y	59	ASN	C-N	-5.36	1.25	1.33
3	1	265	ILE	CG1-CD1	-5.36	1.30	1.51
3	7	265	ILE	CG1-CD1	-5.36	1.30	1.51
3	7	407[A]	ARG	NE-CZ	-5.36	1.27	1.33
3	7	407[B]	ARG	NE-CZ	-5.36	1.27	1.33
1	8	15	THR	C-O	-5.36	1.17	1.24
3	F	496	PHE	CG-CD1	-5.35	1.27	1.38
3	V	431	VAL	C-N	-5.35	1.25	1.33
3	C	496	PHE	CG-CD1	-5.35	1.27	1.38
3	F	265	ILE	CG1-CD1	-5.35	1.30	1.51
3	F	431	VAL	C-N	-5.35	1.25	1.33
3	O	29	PHE	CD2-CE2	-5.35	1.22	1.38
3	R	192	LEU	C-N	-5.35	1.21	1.33
3	R	238	LEU	CG-CD1	-5.35	1.34	1.52
3	V	473	PRO	N-CA	-5.35	1.40	1.47
2	6	117	PRO	C-N	-5.35	1.26	1.33
3	U	155	GLY	N-CA	-5.35	1.37	1.45
3	F	565	MET	C-O	-5.35	1.16	1.23
3	4	431	VAL	C-N	-5.35	1.25	1.33
2	H	99	SER	C-N	-5.35	1.26	1.33
3	V	200	GLY	C-O	-5.35	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	192	LEU	C-N	-5.35	1.21	1.33
2	6	99	SER	C-N	-5.35	1.26	1.33
3	I	565	MET	C-O	-5.35	1.16	1.23
3	Y	372	VAL	CB-CG2	-5.35	1.34	1.52
1	Z	15	THR	C-O	-5.35	1.18	1.24
2	0	94	ARG	C-N	-5.35	1.26	1.33
3	4	81	ARG	CG-CD	-5.35	1.36	1.52
3	4	155	GLY	N-CA	-5.35	1.37	1.45
3	1	496	PHE	CG-CD1	-5.35	1.27	1.38
3	U	200	GLY	C-O	-5.35	1.15	1.23
3	C	192	LEU	C-N	-5.34	1.21	1.33
3	I	185	MET	CA-CB	-5.34	1.44	1.53
3	L	496	PHE	CG-CD1	-5.34	1.27	1.38
3	V	195	ASN	C-O	-5.34	1.17	1.23
3	1	387	LYS	CE-NZ	-5.34	1.33	1.49
1	5	90	SER	C-N	-5.34	1.25	1.33
3	7	200	GLY	C-O	-5.34	1.15	1.23
3	7	372	VAL	CB-CG2	-5.34	1.34	1.52
3	U	192	LEU	C-N	-5.34	1.21	1.33
3	F	13	PHE	CE1-CZ	-5.34	1.22	1.38
3	F	183	ARG	CD-NE	-5.34	1.38	1.46
3	R	387	LYS	CE-NZ	-5.34	1.33	1.49
3	V	13	PHE	CE1-CZ	-5.34	1.22	1.38
3	V	372	VAL	CB-CG2	-5.34	1.34	1.52
3	4	372	VAL	CB-CG2	-5.34	1.34	1.52
3	C	387	LYS	CE-NZ	-5.34	1.33	1.49
3	F	372	VAL	CB-CG2	-5.34	1.34	1.52
3	I	372	VAL	CB-CG2	-5.34	1.34	1.52
3	L	192	LEU	C-N	-5.34	1.21	1.33
3	L	431	VAL	C-N	-5.34	1.25	1.33
3	R	372	VAL	CB-CG2	-5.34	1.34	1.52
1	2	15	THR	C-O	-5.34	1.18	1.24
3	U	387	LYS	CE-NZ	-5.34	1.33	1.49
3	C	372	VAL	CB-CG2	-5.34	1.34	1.52
2	E	99	SER	C-N	-5.34	1.26	1.33
3	O	407[A]	ARG	NE-CZ	-5.34	1.27	1.33
3	O	407[B]	ARG	NE-CZ	-5.34	1.27	1.33
3	O	496	PHE	CG-CD1	-5.34	1.27	1.38
3	R	265	ILE	CG1-CD1	-5.34	1.30	1.51
3	1	13	PHE	CE1-CZ	-5.34	1.22	1.38
3	4	387	LYS	CE-NZ	-5.34	1.33	1.49
3	L	23	LEU	C-N	-5.34	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	183	ARG	CD-NE	-5.34	1.38	1.46
3	Y	265	ILE	CG1-CD1	-5.34	1.30	1.51
2	6	94	ARG	C-N	-5.34	1.26	1.33
3	I	265	ILE	CG1-CD1	-5.33	1.30	1.51
3	L	200	GLY	C-O	-5.33	1.15	1.23
3	L	565	MET	C-O	-5.33	1.16	1.23
3	O	192	LEU	C-N	-5.33	1.21	1.33
3	V	192	LEU	C-N	-5.33	1.21	1.33
3	O	372	VAL	CB-CG2	-5.33	1.34	1.52
3	O	387	LYS	CE-NZ	-5.33	1.33	1.49
3	V	407[A]	ARG	CG-CD	-5.33	1.36	1.52
3	V	407[B]	ARG	CG-CD	-5.33	1.36	1.52
3	1	565	MET	C-O	-5.33	1.16	1.23
2	3	94	ARG	C-N	-5.33	1.26	1.33
3	4	32	ILE	CG1-CD1	-5.33	1.30	1.51
3	4	183	ARG	CD-NE	-5.33	1.38	1.46
3	4	565	MET	C-O	-5.33	1.16	1.23
3	7	32	ILE	CG1-CD1	-5.33	1.30	1.51
3	F	221	TYR	CG-CD2	-5.33	1.28	1.39
2	H	117	PRO	C-N	-5.33	1.26	1.33
3	I	407[A]	ARG	NE-CZ	-5.33	1.27	1.33
3	I	407[B]	ARG	NE-CZ	-5.33	1.27	1.33
3	L	32	ILE	CG1-CD1	-5.33	1.30	1.51
3	L	568	ARG	CZ-NH1	-5.33	1.25	1.32
3	V	32	ILE	CG1-CD1	-5.33	1.30	1.51
3	Y	155	GLY	N-CA	-5.33	1.37	1.45
3	I	32	ILE	CG1-CD1	-5.33	1.30	1.51
3	I	183	ARG	CD-NE	-5.33	1.38	1.46
3	R	32	ILE	CG1-CD1	-5.33	1.30	1.51
3	F	131	LEU	CA-CB	-5.33	1.46	1.53
3	F	407[A]	ARG	CG-CD	-5.33	1.36	1.52
3	F	407[B]	ARG	CG-CD	-5.33	1.36	1.52
3	I	13	PHE	CE1-CZ	-5.33	1.22	1.38
3	I	387	LYS	CE-NZ	-5.33	1.33	1.49
2	N	94	ARG	C-N	-5.33	1.26	1.33
3	R	183	ARG	CD-NE	-5.33	1.38	1.46
3	R	200	GLY	C-O	-5.33	1.15	1.23
3	1	155	GLY	N-CA	-5.33	1.37	1.45
3	4	13	PHE	CE1-CZ	-5.33	1.22	1.38
3	U	221	TYR	CG-CD2	-5.33	1.28	1.39
3	C	200	GLY	C-O	-5.33	1.15	1.23
3	C	407[A]	ARG	CG-CD	-5.33	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	407[B]	ARG	CG-CD	-5.33	1.36	1.52
3	L	387	LYS	CE-NZ	-5.33	1.33	1.49
3	L	407[A]	ARG	CG-CD	-5.33	1.36	1.52
3	L	407[B]	ARG	CG-CD	-5.33	1.36	1.52
1	S	15	THR	C-O	-5.33	1.18	1.24
2	T	117	PRO	C-N	-5.33	1.26	1.33
3	C	13	PHE	CE1-CZ	-5.33	1.22	1.38
1	D	15	THR	C-O	-5.33	1.18	1.24
3	I	23	LEU	C-N	-5.33	1.26	1.33
3	I	131	LEU	CA-CB	-5.33	1.46	1.53
3	I	407[A]	ARG	CG-CD	-5.33	1.36	1.52
3	I	407[B]	ARG	CG-CD	-5.33	1.36	1.52
1	J	15	THR	C-O	-5.33	1.18	1.24
3	L	473	PRO	N-CA	-5.33	1.40	1.47
3	Y	565	MET	C-O	-5.33	1.16	1.23
3	1	372	VAL	CB-CG2	-5.33	1.34	1.52
3	1	407[A]	ARG	CG-CD	-5.33	1.36	1.52
3	1	407[B]	ARG	CG-CD	-5.33	1.36	1.52
3	7	131	LEU	CA-CB	-5.33	1.46	1.53
3	7	407[A]	ARG	CG-CD	-5.33	1.36	1.52
3	7	407[B]	ARG	CG-CD	-5.33	1.36	1.52
3	7	568	ARG	CZ-NH1	-5.33	1.25	1.32
3	U	13	PHE	CE1-CZ	-5.33	1.22	1.38
3	C	32	ILE	CG1-CD1	-5.32	1.30	1.51
3	F	387	LYS	CE-NZ	-5.32	1.33	1.49
3	Y	13	PHE	CE1-CZ	-5.32	1.22	1.38
3	I	192	LEU	C-N	-5.32	1.21	1.33
3	O	32	ILE	CG1-CD1	-5.32	1.30	1.51
3	V	183	ARG	CD-NE	-5.32	1.38	1.46
3	1	568	ARG	CZ-NH1	-5.32	1.25	1.32
3	4	192	LEU	C-N	-5.32	1.21	1.33
3	F	32	ILE	CG1-CD1	-5.32	1.31	1.51
3	R	13	PHE	CE1-CZ	-5.32	1.22	1.38
2	T	94	ARG	C-N	-5.32	1.26	1.33
3	Y	32	ILE	CG1-CD1	-5.32	1.30	1.51
3	U	372	VAL	CB-CG2	-5.32	1.34	1.52
3	U	32	ILE	CG1-CD1	-5.32	1.31	1.51
3	F	200	GLY	C-O	-5.32	1.15	1.23
3	R	407[A]	ARG	CG-CD	-5.32	1.36	1.52
3	R	407[B]	ARG	CG-CD	-5.32	1.36	1.52
3	1	32	ILE	CG1-CD1	-5.32	1.31	1.51
3	4	407[A]	ARG	CG-CD	-5.32	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	407[B]	ARG	CG-CD	-5.32	1.36	1.52
3	7	13	PHE	CE1-CZ	-5.32	1.22	1.38
3	U	407[A]	ARG	CG-CD	-5.32	1.36	1.52
3	U	407[B]	ARG	CG-CD	-5.32	1.36	1.52
3	O	23	LEU	C-N	-5.32	1.26	1.33
3	4	200	GLY	C-O	-5.32	1.15	1.23
3	C	155	GLY	N-CA	-5.31	1.37	1.45
3	O	13	PHE	CE1-CZ	-5.31	1.22	1.38
2	3	87	ARG	CZ-NH2	-5.31	1.26	1.33
2	B	94	ARG	C-N	-5.31	1.26	1.33
2	H	87	ARG	CZ-NH2	-5.31	1.26	1.33
1	W	2	GLN	CG-CD	-5.31	1.38	1.52
3	C	23	LEU	C-N	-5.31	1.26	1.33
1	J	2	GLN	CG-CD	-5.31	1.38	1.52
2	K	117	PRO	C-N	-5.31	1.26	1.33
3	I	568	ARG	CZ-NH1	-5.31	1.25	1.32
3	V	221	TYR	CG-CD2	-5.31	1.28	1.39
3	Y	407[A]	ARG	CG-CD	-5.31	1.36	1.52
3	Y	407[B]	ARG	CG-CD	-5.31	1.36	1.52
2	0	117	PRO	C-N	-5.31	1.26	1.33
3	1	23	LEU	C-N	-5.31	1.26	1.33
3	4	221	TYR	CG-CD2	-5.31	1.28	1.39
3	R	568	ARG	CZ-NH1	-5.31	1.25	1.32
2	3	117	PRO	C-N	-5.31	1.26	1.33
2	H	94	ARG	C-N	-5.31	1.26	1.33
3	R	23	LEU	C-N	-5.31	1.26	1.33
3	U	142	LEU	CG-CD1	-5.31	1.35	1.52
2	B	117	PRO	C-N	-5.30	1.26	1.33
3	O	407[A]	ARG	CG-CD	-5.30	1.36	1.52
3	O	407[B]	ARG	CG-CD	-5.30	1.36	1.52
2	T	87	ARG	CZ-NH2	-5.30	1.26	1.33
3	U	23	LEU	C-N	-5.30	1.26	1.33
3	U	496	PHE	CG-CD1	-5.30	1.27	1.38
3	L	13	PHE	CE1-CZ	-5.30	1.22	1.38
3	R	221	TYR	CG-CD2	-5.30	1.28	1.39
3	7	142	LEU	CG-CD1	-5.30	1.35	1.52
3	Y	568	ARG	CZ-NH1	-5.30	1.25	1.32
3	7	23	LEU	C-N	-5.30	1.26	1.33
3	7	547	ALA	C-O	-5.30	1.17	1.23
1	8	2	GLN	CG-CD	-5.30	1.38	1.52
3	L	221	TYR	CG-CD2	-5.30	1.28	1.39
2	Q	94	ARG	C-N	-5.30	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	59	ASN	C-O	-5.30	1.16	1.24
3	O	500	ALA	C-N	-5.30	1.26	1.33
3	C	221	TYR	CG-CD2	-5.30	1.28	1.39
3	4	131	LEU	CA-CB	-5.30	1.46	1.53
3	L	142	LEU	CG-CD1	-5.29	1.35	1.52
2	X	94	ARG	C-N	-5.29	1.26	1.33
3	Y	360	SER	CA-CB	-5.29	1.44	1.53
3	C	568	ARG	CZ-NH1	-5.29	1.25	1.32
1	S	70	MET	CG-SD	-5.29	1.67	1.80
3	Y	59	ASN	C-O	-5.29	1.16	1.24
3	Y	221	TYR	CG-CD2	-5.29	1.28	1.39
3	1	221	TYR	CG-CD2	-5.29	1.28	1.39
1	A	2	GLN	CG-CD	-5.29	1.38	1.52
2	N	87	ARG	CZ-NH2	-5.29	1.26	1.33
3	V	481	MET	SD-CE	-5.29	1.66	1.79
3	4	547	ALA	C-O	-5.29	1.17	1.23
2	E	94	ARG	C-N	-5.29	1.26	1.33
3	I	59	ASN	C-O	-5.29	1.16	1.24
3	I	200	GLY	C-O	-5.29	1.15	1.23
3	R	429	VAL	CB-CG2	-5.29	1.35	1.52
2	9	117	PRO	C-N	-5.29	1.26	1.33
3	F	142	LEU	CG-CD1	-5.29	1.35	1.52
3	F	429	VAL	CB-CG2	-5.29	1.35	1.52
3	O	224	HIS	CD2-NE2	-5.29	1.32	1.37
3	V	59	ASN	C-O	-5.29	1.16	1.24
3	V	131	LEU	CA-CB	-5.29	1.46	1.53
3	Y	142	LEU	CG-CD1	-5.29	1.35	1.52
3	7	429	VAL	CB-CG2	-5.29	1.35	1.52
3	U	568	ARG	CZ-NH1	-5.29	1.25	1.32
1	G	2	GLN	CG-CD	-5.29	1.38	1.52
3	V	429	VAL	CB-CG2	-5.29	1.35	1.52
1	Z	70	MET	CG-SD	-5.29	1.67	1.80
3	1	131	LEU	CA-CB	-5.29	1.46	1.53
3	1	429	VAL	CB-CG2	-5.29	1.35	1.52
2	3	95	LEU	CA-CB	-5.29	1.44	1.53
3	F	568	ARG	CZ-NH1	-5.28	1.25	1.32
1	M	2	GLN	CG-CD	-5.28	1.38	1.52
3	O	155	GLY	N-CA	-5.28	1.37	1.45
3	O	473	PRO	N-CA	-5.28	1.40	1.47
3	1	481	MET	SD-CE	-5.28	1.66	1.79
1	8	70	MET	CG-SD	-5.28	1.67	1.80
3	C	142	LEU	CG-CD1	-5.28	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	429	VAL	CB-CG2	-5.28	1.35	1.52
1	P	70	MET	CG-SD	-5.28	1.67	1.80
3	Y	131	LEU	CA-CB	-5.28	1.46	1.53
3	1	224	HIS	CD2-NE2	-5.28	1.32	1.37
2	9	94	ARG	C-N	-5.28	1.26	1.33
3	C	429	VAL	CB-CG2	-5.28	1.35	1.52
3	O	142	LEU	CG-CD1	-5.28	1.35	1.52
3	R	360	SER	CA-CB	-5.28	1.44	1.53
3	1	360	SER	CA-CB	-5.28	1.44	1.53
1	2	70	MET	CG-SD	-5.28	1.67	1.80
3	4	429	VAL	CB-CG2	-5.28	1.35	1.52
1	5	70	MET	CG-SD	-5.28	1.67	1.80
3	7	221	TYR	CG-CD2	-5.28	1.28	1.39
3	U	429	VAL	CB-CG2	-5.28	1.35	1.52
1	D	70	MET	CG-SD	-5.28	1.67	1.80
1	P	2	GLN	CG-CD	-5.28	1.38	1.52
3	Y	200	GLY	C-O	-5.28	1.15	1.23
3	U	124	ILE	C-N	-5.28	1.26	1.33
1	A	70	MET	CG-SD	-5.28	1.67	1.80
3	I	221	TYR	CG-CD2	-5.28	1.28	1.39
3	I	481	MET	SD-CE	-5.28	1.66	1.79
3	L	131	LEU	CA-CB	-5.28	1.46	1.53
3	O	221	TYR	CG-CD2	-5.28	1.28	1.39
3	R	131	LEU	CA-CB	-5.28	1.46	1.53
1	Z	2	GLN	CG-CD	-5.28	1.38	1.52
3	4	360	SER	CA-CB	-5.28	1.44	1.53
2	9	87	ARG	CZ-NH2	-5.28	1.26	1.33
3	I	442	PRO	CA-C	-5.28	1.43	1.52
3	O	429	VAL	CB-CG2	-5.28	1.35	1.52
1	P	33	PRO	C-N	-5.28	1.27	1.33
3	R	59	ASN	C-O	-5.28	1.16	1.24
3	Y	224	HIS	CD2-NE2	-5.28	1.32	1.37
3	1	142	LEU	CG-CD1	-5.28	1.35	1.52
3	4	568	ARG	CZ-NH1	-5.28	1.25	1.32
3	R	232	ASN	CA-CB	-5.27	1.45	1.53
3	R	481	MET	SD-CE	-5.27	1.66	1.79
3	F	360	SER	CA-CB	-5.27	1.44	1.53
3	I	142	LEU	CG-CD1	-5.27	1.35	1.52
3	I	570	PHE	CG-CD2	-5.27	1.27	1.38
1	M	70	MET	CG-SD	-5.27	1.67	1.80
3	U	474	GLN	CD-NE2	-5.27	1.22	1.33
3	C	131	LEU	CA-CB	-5.27	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	87	ARG	CZ-NH2	-5.27	1.26	1.33
3	4	142	LEU	CG-CD1	-5.27	1.35	1.52
3	F	481	MET	SD-CE	-5.27	1.66	1.79
3	O	360	SER	CA-CB	-5.27	1.44	1.53
3	O	568	ARG	CZ-NH1	-5.27	1.25	1.32
1	S	2	GLN	CG-CD	-5.27	1.38	1.52
1	W	70	MET	CG-SD	-5.27	1.67	1.80
2	6	87	ARG	CZ-NH2	-5.27	1.26	1.33
3	7	481	MET	SD-CE	-5.27	1.66	1.79
3	U	131	LEU	CA-CB	-5.27	1.46	1.53
1	D	2	GLN	CG-CD	-5.27	1.38	1.52
3	F	442	PRO	CA-C	-5.27	1.43	1.52
1	J	70	MET	CG-SD	-5.27	1.67	1.80
3	O	474	GLN	CD-NE2	-5.27	1.22	1.33
3	Y	429	VAL	CB-CG2	-5.27	1.35	1.52
3	U	481	MET	SD-CE	-5.27	1.66	1.79
2	6	95	LEU	CA-CB	-5.27	1.45	1.53
3	7	155	GLY	N-CA	-5.27	1.37	1.45
3	C	481	MET	SD-CE	-5.26	1.66	1.79
3	F	23	LEU	C-N	-5.26	1.26	1.33
3	L	442	PRO	CA-C	-5.26	1.43	1.52
2	T	115	LEU	CG-CD1	-5.26	1.35	1.52
3	V	568	ARG	CZ-NH1	-5.26	1.25	1.32
2	X	117	PRO	C-N	-5.26	1.26	1.33
1	2	2	GLN	CG-CD	-5.26	1.38	1.52
2	B	87	ARG	CZ-NH2	-5.26	1.26	1.33
3	R	500	ALA	C-N	-5.26	1.26	1.33
2	K	94	ARG	C-N	-5.26	1.26	1.33
3	L	429	VAL	CB-CG2	-5.26	1.35	1.52
3	L	570	PHE	CG-CD2	-5.26	1.27	1.38
3	O	481	MET	SD-CE	-5.26	1.66	1.79
3	R	150	HIS	C-N	-5.26	1.27	1.33
3	V	23	LEU	C-N	-5.26	1.26	1.33
2	X	118	PHE	CD1-CE1	-5.26	1.22	1.38
3	4	438	VAL	CB-CG1	-5.26	1.35	1.52
3	7	60	HIS	CG-ND1	-5.26	1.32	1.38
2	E	117	PRO	C-N	-5.26	1.26	1.33
1	G	70	MET	CG-SD	-5.26	1.67	1.80
3	L	500	ALA	C-N	-5.26	1.26	1.33
3	R	142	LEU	CG-CD1	-5.26	1.35	1.52
3	V	142	LEU	CG-CD1	-5.26	1.35	1.52
3	V	360	SER	CA-CB	-5.26	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	570	PHE	CG-CD2	-5.26	1.27	1.38
1	5	2	GLN	CG-CD	-5.26	1.39	1.52
3	I	290	ILE	CB-CG2	-5.26	1.35	1.52
2	Q	95	LEU	CA-CB	-5.26	1.45	1.53
3	V	155	GLY	N-CA	-5.26	1.37	1.45
3	V	232	ASN	CA-CB	-5.26	1.45	1.53
3	1	500	ALA	C-N	-5.26	1.26	1.33
3	U	224	HIS	CD2-NE2	-5.26	1.32	1.37
3	U	498	SER	CB-OG	-5.26	1.31	1.42
3	C	59	ASN	C-O	-5.26	1.16	1.24
3	I	474	GLN	CD-NE2	-5.26	1.22	1.33
3	R	155	GLY	N-CA	-5.26	1.37	1.45
2	0	87	ARG	CZ-NH2	-5.26	1.26	1.33
3	1	474	GLN	CD-NE2	-5.26	1.22	1.33
1	5	33	PRO	C-N	-5.26	1.27	1.33
3	7	232	ASN	CA-CB	-5.26	1.45	1.53
3	C	360	SER	CA-CB	-5.25	1.44	1.53
3	F	290	ILE	CB-CG2	-5.25	1.35	1.52
3	I	362	PHE	CB-CG	-5.25	1.38	1.50
2	0	115	LEU	CG-CD1	-5.25	1.35	1.52
2	6	115	LEU	CG-CD1	-5.25	1.35	1.52
2	9	115	LEU	CG-CD1	-5.25	1.35	1.52
3	C	547	ALA	C-O	-5.25	1.17	1.23
3	O	547	ALA	C-O	-5.25	1.17	1.23
3	U	150	HIS	C-N	-5.25	1.27	1.33
3	U	570	PHE	CG-CD2	-5.25	1.27	1.38
2	N	115	LEU	CG-CD1	-5.25	1.35	1.52
3	O	59	ASN	C-O	-5.25	1.16	1.24
2	Q	115	LEU	CG-CD1	-5.25	1.35	1.52
2	Q	117	PRO	C-N	-5.25	1.26	1.33
3	V	290	ILE	CB-CG2	-5.25	1.35	1.52
3	V	438	VAL	CB-CG1	-5.25	1.35	1.52
3	V	547	ALA	C-O	-5.25	1.17	1.23
3	7	59	ASN	C-O	-5.25	1.16	1.24
3	C	290	ILE	CB-CG2	-5.25	1.35	1.52
3	R	459	ASN	CB-CG	-5.25	1.39	1.52
3	R	474	GLN	CD-NE2	-5.25	1.22	1.33
3	Y	481	MET	SD-CE	-5.25	1.66	1.79
2	3	115	LEU	CG-CD1	-5.25	1.35	1.52
3	4	442	PRO	CA-C	-5.25	1.43	1.52
3	U	360	SER	CA-CB	-5.25	1.44	1.53
3	F	547	ALA	C-O	-5.25	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	118	PHE	CD1-CE1	-5.25	1.23	1.38
3	O	290	ILE	CB-CG2	-5.25	1.35	1.52
3	Y	442	PRO	CA-C	-5.25	1.43	1.52
3	Y	500	ALA	C-N	-5.25	1.26	1.33
3	1	433	LYS	N-CA	-5.25	1.39	1.45
3	4	59	ASN	C-O	-5.25	1.16	1.24
2	B	115	LEU	CG-CD1	-5.25	1.35	1.52
2	E	115	LEU	CG-CD1	-5.25	1.35	1.52
1	G	33	PRO	C-N	-5.25	1.27	1.33
2	K	115	LEU	CG-CD1	-5.25	1.35	1.52
3	V	570	PHE	CG-CD2	-5.25	1.27	1.38
3	U	45	TYR	CD1-CE1	-5.25	1.23	1.38
3	O	131	LEU	CA-CB	-5.25	1.46	1.53
2	H	115	LEU	CG-CD1	-5.24	1.35	1.52
2	K	95	LEU	CA-CB	-5.24	1.45	1.53
3	O	232	ASN	CA-CB	-5.24	1.45	1.53
3	O	442	PRO	CA-C	-5.24	1.43	1.52
2	Q	118	PHE	CD1-CE1	-5.24	1.23	1.38
3	R	507	LYS	CG-CD	-5.24	1.36	1.52
2	0	95	LEU	CA-CB	-5.24	1.45	1.53
3	1	438	VAL	CB-CG1	-5.24	1.35	1.52
3	1	507	LYS	CG-CD	-5.24	1.36	1.52
3	U	442	PRO	CA-C	-5.24	1.43	1.52
3	U	459	ASN	CB-CG	-5.24	1.39	1.52
3	C	500	ALA	C-N	-5.24	1.26	1.33
3	F	507	LYS	CG-CD	-5.24	1.36	1.52
3	Y	438	VAL	CB-CG1	-5.24	1.35	1.52
3	I	45	TYR	CD1-CE1	-5.24	1.23	1.38
3	I	124	ILE	C-N	-5.24	1.26	1.33
3	I	232	ASN	CA-CB	-5.24	1.45	1.53
3	L	507	LYS	CG-CD	-5.24	1.36	1.52
3	1	290	ILE	CB-CG2	-5.24	1.35	1.52
3	4	290	ILE	CB-CG2	-5.24	1.35	1.52
3	7	474	GLN	CD-NE2	-5.24	1.22	1.33
3	U	507	LYS	CG-CD	-5.24	1.36	1.52
3	C	474	GLN	CD-NE2	-5.24	1.22	1.33
3	C	570	PHE	CG-CD2	-5.24	1.27	1.38
3	I	360	SER	CA-CB	-5.24	1.44	1.53
3	L	232	ASN	CA-CB	-5.24	1.45	1.53
3	L	290	ILE	CB-CG2	-5.24	1.35	1.52
3	L	547	ALA	C-O	-5.24	1.17	1.23
2	N	118	PHE	CD1-CE1	-5.24	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	547	ALA	C-O	-5.24	1.17	1.23
2	T	118	PHE	CD1-CE1	-5.24	1.23	1.38
3	V	459	ASN	CB-CG	-5.24	1.39	1.52
3	Y	290	ILE	CB-CG2	-5.24	1.35	1.52
3	1	547	ALA	C-O	-5.24	1.17	1.23
3	4	481	MET	SD-CE	-5.24	1.66	1.79
3	4	570	PHE	CG-CD2	-5.24	1.27	1.38
3	7	124	ILE	C-N	-5.24	1.26	1.33
3	7	224	HIS	CD2-NE2	-5.24	1.32	1.37
3	U	362	PHE	CB-CG	-5.24	1.38	1.50
3	U	547	ALA	C-O	-5.24	1.17	1.23
3	L	433	LYS	N-CA	-5.24	1.39	1.45
3	V	442	PRO	CA-C	-5.24	1.43	1.52
3	4	474	GLN	CD-NE2	-5.24	1.22	1.33
3	4	507	LYS	CG-CD	-5.24	1.36	1.52
3	C	224	HIS	CD2-NE2	-5.24	1.32	1.37
3	C	442	PRO	CA-C	-5.24	1.43	1.52
2	Q	87	ARG	CZ-NH2	-5.24	1.26	1.33
3	R	290	ILE	CB-CG2	-5.24	1.35	1.52
3	V	124	ILE	C-N	-5.24	1.26	1.33
2	X	95	LEU	CA-CB	-5.24	1.45	1.53
2	X	115	LEU	CG-CD1	-5.24	1.35	1.52
3	4	232	ASN	CA-CB	-5.24	1.45	1.53
3	7	362	PHE	CB-CG	-5.24	1.38	1.50
2	9	118	PHE	CD1-CE1	-5.24	1.23	1.38
3	U	59	ASN	C-O	-5.24	1.16	1.24
2	B	95	LEU	CA-CB	-5.23	1.45	1.53
3	O	507	LYS	CG-CD	-5.23	1.36	1.52
3	R	570	PHE	CG-CD2	-5.23	1.27	1.38
3	I	438	VAL	CB-CG1	-5.23	1.35	1.52
3	O	124	ILE	C-N	-5.23	1.26	1.33
3	V	500	ALA	C-N	-5.23	1.26	1.33
3	Y	45	TYR	CD1-CE1	-5.23	1.23	1.38
3	4	124	ILE	C-N	-5.23	1.26	1.33
3	F	124	ILE	C-N	-5.23	1.26	1.33
3	O	570	PHE	CG-CD2	-5.23	1.27	1.38
3	R	153	SER	CA-CB	-5.23	1.44	1.53
3	V	362	PHE	CB-CG	-5.23	1.38	1.50
3	V	507	LYS	CG-CD	-5.23	1.36	1.52
2	3	118	PHE	CD1-CE1	-5.23	1.23	1.38
2	B	118	PHE	CD1-CE1	-5.23	1.23	1.38
3	C	438	VAL	CB-CG1	-5.23	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	507	LYS	CG-CD	-5.23	1.36	1.52
3	I	224	HIS	CD2-NE2	-5.23	1.32	1.37
3	L	481	MET	SD-CE	-5.23	1.66	1.79
3	1	59	ASN	C-O	-5.23	1.16	1.24
3	1	442	PRO	CA-C	-5.23	1.43	1.52
3	V	433	LYS	N-CA	-5.23	1.39	1.45
3	Y	547	ALA	C-O	-5.23	1.17	1.23
3	1	232	ASN	CA-CB	-5.23	1.45	1.53
3	1	443	ARG	N-CA	-5.23	1.39	1.46
3	1	570	PHE	CG-CD2	-5.23	1.27	1.38
3	4	224	HIS	CD2-NE2	-5.23	1.32	1.37
3	7	360	SER	CA-CB	-5.23	1.44	1.53
3	U	290	ILE	CB-CG2	-5.23	1.35	1.52
3	U	438	VAL	CB-CG1	-5.23	1.35	1.52
3	C	459	ASN	CB-CG	-5.23	1.39	1.52
3	F	45	TYR	CD1-CE1	-5.23	1.23	1.38
3	F	438	VAL	CB-CG1	-5.23	1.35	1.52
3	L	59	ASN	C-O	-5.23	1.16	1.24
3	L	459	ASN	CB-CG	-5.23	1.39	1.52
3	7	507	LYS	CG-CD	-5.23	1.36	1.52
1	A	33	PRO	C-N	-5.22	1.27	1.33
3	C	124	ILE	C-N	-5.22	1.26	1.33
3	C	232	ASN	CA-CB	-5.22	1.45	1.53
3	L	360	SER	CA-CB	-5.22	1.44	1.53
3	L	498	SER	CB-OG	-5.22	1.31	1.42
3	O	376	TRP	CG-CD2	-5.22	1.34	1.43
3	O	438	VAL	CB-CG1	-5.22	1.35	1.52
3	O	459	ASN	CB-CG	-5.22	1.39	1.52
3	R	124	ILE	C-N	-5.22	1.26	1.33
3	V	151	ALA	CA-CB	-5.22	1.45	1.53
2	X	87	ARG	CZ-NH2	-5.22	1.26	1.33
2	0	118	PHE	CD1-CE1	-5.22	1.23	1.38
3	4	459	ASN	CB-CG	-5.22	1.39	1.52
3	7	45	TYR	CD1-CE1	-5.22	1.23	1.38
3	7	290	ILE	CB-CG2	-5.22	1.35	1.52
3	F	224	HIS	CD2-NE2	-5.22	1.32	1.37
3	L	362	PHE	CB-CG	-5.22	1.38	1.50
1	M	33	PRO	C-N	-5.22	1.27	1.33
3	O	362	PHE	CB-CG	-5.22	1.38	1.50
3	R	45	TYR	CD1-CE1	-5.22	1.23	1.38
3	Y	474	GLN	CD-NE2	-5.22	1.22	1.33
3	Y	507	LYS	CG-CD	-5.22	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	60	HIS	CG-ND1	-5.22	1.32	1.38
3	4	153	SER	CA-CB	-5.22	1.44	1.53
2	6	118	PHE	CD1-CE1	-5.22	1.23	1.38
3	7	150	HIS	C-N	-5.22	1.27	1.33
2	9	95	LEU	CA-CB	-5.22	1.45	1.53
1	D	33	PRO	C-N	-5.22	1.27	1.33
3	F	474	GLN	CD-NE2	-5.22	1.22	1.33
3	R	362	PHE	CB-CG	-5.22	1.38	1.50
3	R	438	VAL	CB-CG1	-5.22	1.35	1.52
3	V	45	TYR	CD1-CE1	-5.22	1.23	1.38
3	1	362	PHE	CB-CG	-5.22	1.38	1.50
3	4	45	TYR	CD1-CE1	-5.22	1.23	1.38
3	7	442	PRO	CA-C	-5.22	1.43	1.52
3	U	232	ASN	CA-CB	-5.22	1.45	1.53
3	U	286	ALA	CA-CB	-5.22	1.46	1.53
3	U	376	TRP	CG-CD2	-5.22	1.34	1.43
3	I	376	TRP	CG-CD2	-5.22	1.34	1.43
3	I	498	SER	CB-OG	-5.22	1.31	1.42
2	K	118	PHE	CD1-CE1	-5.22	1.23	1.38
3	O	45	TYR	CD1-CE1	-5.22	1.23	1.38
3	1	112	THR	CB-OG1	-5.22	1.35	1.43
3	1	124	ILE	C-N	-5.22	1.26	1.33
3	4	500	ALA	C-N	-5.22	1.26	1.33
3	Y	124	ILE	C-N	-5.22	1.26	1.33
3	F	459	ASN	CB-CG	-5.22	1.39	1.52
3	F	570	PHE	CG-CD2	-5.22	1.27	1.38
3	I	459	ASN	CB-CG	-5.22	1.39	1.52
3	I	526	SER	CB-OG	-5.22	1.31	1.42
3	O	60	HIS	CG-ND1	-5.22	1.32	1.38
3	O	498	SER	CB-OG	-5.22	1.31	1.42
3	R	151	ALA	CA-CB	-5.22	1.45	1.53
3	R	433	LYS	N-CA	-5.22	1.39	1.45
3	V	150	HIS	C-N	-5.22	1.27	1.33
3	7	459	ASN	CB-CG	-5.22	1.39	1.52
3	7	460	TRP	CZ2-CH2	-5.22	1.27	1.37
3	C	362	PHE	CB-CG	-5.21	1.38	1.50
3	F	362	PHE	CB-CG	-5.21	1.38	1.50
3	L	224	HIS	CD2-NE2	-5.21	1.32	1.37
3	R	442	PRO	CA-C	-5.21	1.43	1.52
3	Y	151	ALA	CA-CB	-5.21	1.45	1.53
3	1	459	ASN	CB-CG	-5.21	1.39	1.52
3	4	362	PHE	CB-CG	-5.21	1.38	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	498	SER	CB-OG	-5.21	1.31	1.42
3	U	500	ALA	C-N	-5.21	1.26	1.33
3	C	45	TYR	CD1-CE1	-5.21	1.23	1.38
2	K	87	ARG	CZ-NH2	-5.21	1.26	1.33
1	S	7	GLU	CD-OE2	-5.21	1.15	1.25
3	1	153	SER	CA-CB	-5.21	1.44	1.53
3	F	526	SER	CB-OG	-5.21	1.31	1.42
3	I	60	HIS	CG-ND1	-5.21	1.32	1.38
3	L	438	VAL	CB-CG1	-5.21	1.35	1.52
3	O	460	TRP	CZ2-CH2	-5.21	1.27	1.37
3	R	498	SER	CB-OG	-5.21	1.31	1.42
3	V	224	HIS	CD2-NE2	-5.21	1.32	1.37
3	R	224	HIS	CD2-NE2	-5.21	1.32	1.37
3	7	438	VAL	CB-CG1	-5.21	1.35	1.52
3	7	500	ALA	C-N	-5.21	1.26	1.33
3	7	570	PHE	CG-CD2	-5.21	1.27	1.38
3	C	498	SER	CB-OG	-5.21	1.31	1.42
2	H	95	LEU	CA-CB	-5.21	1.45	1.53
3	I	507	LYS	CG-CD	-5.21	1.36	1.52
1	J	33	PRO	C-N	-5.21	1.27	1.33
3	V	153	SER	CA-CB	-5.21	1.44	1.53
3	Y	376	TRP	CG-CD2	-5.21	1.34	1.43
2	E	95	LEU	CA-CB	-5.21	1.45	1.53
3	I	500	ALA	C-N	-5.21	1.26	1.33
3	O	153	SER	CA-CB	-5.21	1.44	1.53
3	R	112	THR	CB-OG1	-5.21	1.35	1.43
3	V	147	GLN	CB-CG	-5.21	1.36	1.52
3	V	185	MET	N-CA	-5.21	1.39	1.46
3	Y	147	GLN	CB-CG	-5.21	1.36	1.52
3	Y	221	TYR	CZ-OH	-5.21	1.27	1.38
3	1	60	HIS	CG-ND1	-5.21	1.32	1.38
3	1	151	ALA	CA-CB	-5.21	1.45	1.53
3	1	286	ALA	CA-CB	-5.21	1.46	1.53
3	7	526	SER	CB-OG	-5.21	1.31	1.42
3	R	60	HIS	CG-ND1	-5.21	1.32	1.38
2	E	118	PHE	CD1-CE1	-5.20	1.23	1.38
3	F	60	HIS	CG-ND1	-5.20	1.32	1.38
3	I	147	GLN	CB-CG	-5.20	1.36	1.52
3	L	443	ARG	N-CA	-5.20	1.39	1.46
3	L	474	GLN	CD-NE2	-5.20	1.22	1.33
3	O	147	GLN	CB-CG	-5.20	1.36	1.52
3	V	221	TYR	CZ-OH	-5.20	1.27	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	33	PRO	C-N	-5.20	1.27	1.33
3	Y	459	ASN	CB-CG	-5.20	1.39	1.52
3	1	498	SER	CB-OG	-5.20	1.31	1.42
3	U	151	ALA	CA-CB	-5.20	1.45	1.53
3	L	45	TYR	CD1-CE1	-5.20	1.23	1.38
3	L	221	TYR	CZ-OH	-5.20	1.27	1.38
3	L	185	MET	N-CA	-5.20	1.39	1.46
3	V	474	GLN	CD-NE2	-5.20	1.22	1.33
3	Y	362	PHE	CB-CG	-5.20	1.38	1.50
3	F	147	GLN	CB-CG	-5.20	1.36	1.52
3	F	153	SER	CA-CB	-5.20	1.44	1.53
3	V	526	SER	CB-OG	-5.20	1.31	1.42
3	Y	498	SER	CB-OG	-5.20	1.31	1.42
1	8	33	PRO	C-N	-5.20	1.27	1.33
3	C	221	TYR	CZ-OH	-5.20	1.27	1.38
1	D	7	GLU	CD-OE2	-5.20	1.15	1.25
3	1	150	HIS	C-N	-5.20	1.27	1.33
3	F	433	LYS	N-CA	-5.20	1.39	1.45
3	F	498	SER	CB-OG	-5.20	1.31	1.42
2	N	95	LEU	CA-CB	-5.20	1.45	1.53
3	O	150	HIS	C-N	-5.20	1.27	1.33
3	4	526	SER	CB-OG	-5.20	1.31	1.42
3	U	221	TYR	CZ-OH	-5.20	1.27	1.38
3	1	515	GLN	CD-NE2	-5.19	1.22	1.33
1	2	7	GLU	CD-OE2	-5.19	1.15	1.25
3	C	286	ALA	CA-CB	-5.19	1.46	1.53
3	C	433	LYS	N-CA	-5.19	1.39	1.45
3	I	433	LYS	N-CA	-5.19	1.39	1.45
3	L	124	ILE	C-N	-5.19	1.26	1.33
3	O	526	SER	CB-OG	-5.19	1.31	1.42
3	R	286	ALA	CA-CB	-5.19	1.46	1.53
1	Z	33	PRO	C-N	-5.19	1.27	1.33
3	1	45	TYR	CD1-CE1	-5.19	1.23	1.38
3	U	153	SER	CA-CB	-5.19	1.44	1.53
3	C	153	SER	CA-CB	-5.19	1.44	1.53
3	F	221	TYR	CZ-OH	-5.19	1.27	1.38
3	L	376	TRP	CG-CD2	-5.19	1.34	1.43
1	M	7	GLU	CD-OE2	-5.19	1.15	1.25
3	V	60	HIS	CG-ND1	-5.19	1.32	1.38
3	V	286	ALA	CA-CB	-5.19	1.46	1.53
3	V	498	SER	CB-OG	-5.19	1.31	1.42
3	I	221	TYR	CZ-OH	-5.19	1.27	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L	526	SER	CB-OG	-5.19	1.31	1.42
3	C	147	GLN	CB-CG	-5.19	1.36	1.52
3	C	151	ALA	CA-CB	-5.19	1.45	1.53
3	C	376	TRP	CG-CD2	-5.19	1.34	1.43
3	F	151	ALA	CA-CB	-5.19	1.45	1.53
3	L	60	HIS	CG-ND1	-5.19	1.32	1.38
3	L	150	HIS	C-N	-5.19	1.27	1.33
3	O	515	GLN	CD-NE2	-5.19	1.22	1.33
3	Y	232	ASN	CA-CB	-5.19	1.45	1.53
3	1	147	GLN	CB-CG	-5.19	1.36	1.52
3	4	147	GLN	CB-CG	-5.19	1.36	1.52
3	4	221	TYR	CZ-OH	-5.19	1.27	1.38
3	4	376	TRP	CG-CD2	-5.19	1.34	1.43
1	5	7	GLU	CD-OE2	-5.19	1.15	1.25
3	U	526	SER	CB-OG	-5.19	1.31	1.42
1	S	33	PRO	C-N	-5.19	1.27	1.33
3	4	498	SER	CB-OG	-5.19	1.31	1.42
3	F	286	ALA	CA-CB	-5.18	1.46	1.53
3	L	286	ALA	CA-CB	-5.18	1.46	1.53
3	L	376	TRP	CE2-CZ2	-5.18	1.28	1.39
1	Z	7	GLU	CD-OE2	-5.18	1.15	1.25
1	2	33	PRO	C-N	-5.18	1.27	1.33
3	7	147	GLN	CB-CG	-5.18	1.36	1.52
3	C	150	HIS	C-N	-5.18	1.27	1.33
3	I	112	THR	CB-OG1	-5.18	1.35	1.43
3	L	515	GLN	CD-NE2	-5.18	1.22	1.33
3	O	433	LYS	N-CA	-5.18	1.39	1.45
3	C	60	HIS	CG-ND1	-5.18	1.32	1.38
3	C	526	SER	CB-OG	-5.18	1.31	1.42
3	F	500	ALA	C-N	-5.18	1.26	1.33
3	I	515	GLN	CD-NE2	-5.18	1.22	1.33
3	L	153	SER	CA-CB	-5.18	1.44	1.53
3	7	221	TYR	CZ-OH	-5.18	1.27	1.38
1	J	7	GLU	CD-OE2	-5.18	1.15	1.25
3	R	147	GLN	CB-CG	-5.18	1.36	1.52
2	T	95	LEU	CA-CB	-5.18	1.45	1.53
3	1	221	TYR	CZ-OH	-5.18	1.27	1.38
3	U	147	GLN	CB-CG	-5.18	1.36	1.52
3	U	185	MET	N-CA	-5.18	1.39	1.46
1	A	7	GLU	CD-OE2	-5.18	1.15	1.25
3	O	343	ARG	CD-NE	-5.18	1.39	1.46
3	Y	286	ALA	CA-CB	-5.18	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	139	HIS	C-O	-5.18	1.16	1.23
3	F	515	GLN	CD-NE2	-5.18	1.22	1.33
3	I	547	ALA	C-O	-5.18	1.17	1.23
3	I	571	PHE	CD1-CE1	-5.18	1.23	1.38
3	L	147	GLN	CB-CG	-5.18	1.36	1.52
3	O	112	THR	CB-OG1	-5.18	1.35	1.43
3	R	376	TRP	CG-CD2	-5.18	1.34	1.43
3	Y	153	SER	CA-CB	-5.18	1.44	1.53
3	Y	185	MET	N-CA	-5.18	1.39	1.46
3	4	151	ALA	CA-CB	-5.18	1.45	1.53
1	8	7	GLU	CD-OE2	-5.18	1.15	1.25
1	8	85	ILE	CG1-CD1	-5.18	1.31	1.51
1	J	85	ILE	CG1-CD1	-5.17	1.31	1.51
3	V	515	GLN	CD-NE2	-5.17	1.22	1.33
1	Z	85	ILE	CG1-CD1	-5.17	1.31	1.51
3	1	376	TRP	CG-CD2	-5.17	1.34	1.43
3	7	443	ARG	N-CA	-5.17	1.39	1.46
3	L	151	ALA	CA-CB	-5.17	1.45	1.53
3	V	460	TRP	CZ2-CH2	-5.17	1.27	1.37
3	4	433	LYS	N-CA	-5.17	1.39	1.45
1	G	85	ILE	CG1-CD1	-5.17	1.31	1.51
3	I	151	ALA	CA-CB	-5.17	1.45	1.53
3	L	145	PRO	C-N	-5.17	1.26	1.33
3	O	185	MET	N-CA	-5.17	1.39	1.46
1	W	7	GLU	CD-OE2	-5.17	1.15	1.25
3	U	60	HIS	CG-ND1	-5.17	1.32	1.38
1	A	85	ILE	CG1-CD1	-5.17	1.31	1.51
3	F	150	HIS	C-N	-5.17	1.27	1.33
3	I	185	MET	N-CA	-5.17	1.39	1.46
3	Y	376	TRP	CE2-CZ2	-5.17	1.28	1.39
3	4	139	HIS	C-O	-5.17	1.16	1.23
3	4	376	TRP	CE2-CZ2	-5.17	1.28	1.39
3	I	153	SER	CA-CB	-5.17	1.44	1.53
3	4	112	THR	CB-OG1	-5.17	1.35	1.43
3	C	112	THR	CB-OG1	-5.17	1.35	1.43
3	C	185	MET	N-CA	-5.17	1.39	1.46
3	I	376	TRP	CE2-CZ2	-5.17	1.29	1.39
3	L	139	HIS	C-O	-5.17	1.16	1.23
3	L	571	PHE	CD1-CE1	-5.17	1.23	1.38
3	O	286	ALA	CA-CB	-5.17	1.46	1.53
3	4	343	ARG	CD-NE	-5.17	1.39	1.46
3	C	460	TRP	CZ2-CH2	-5.17	1.27	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	515	GLN	CD-NE2	-5.17	1.22	1.33
3	F	343	ARG	CD-NE	-5.17	1.39	1.46
3	F	460	TRP	CZ2-CH2	-5.17	1.27	1.37
3	I	460	TRP	CZ2-CH2	-5.17	1.27	1.37
3	R	118	GLY	N-CA	-5.17	1.37	1.45
1	5	85	ILE	CG1-CD1	-5.17	1.31	1.51
1	D	85	ILE	CG1-CD1	-5.16	1.31	1.51
3	I	286	ALA	CA-CB	-5.16	1.46	1.53
3	R	460	TRP	CZ2-CH2	-5.16	1.27	1.37
3	R	506	VAL	CB-CG1	-5.16	1.35	1.52
3	Y	60	HIS	CG-ND1	-5.16	1.32	1.38
3	Y	452	VAL	CB-CG2	-5.16	1.35	1.52
3	1	145	PRO	C-N	-5.16	1.26	1.33
3	7	153	SER	CA-CB	-5.16	1.44	1.53
3	U	112	THR	CB-OG1	-5.16	1.35	1.43
1	M	85	ILE	CG1-CD1	-5.16	1.31	1.51
3	O	452	VAL	CB-CG2	-5.16	1.35	1.52
3	R	219	VAL	CB-CG2	-5.16	1.35	1.52
3	R	526	SER	CB-OG	-5.16	1.31	1.42
3	Y	460	TRP	CZ2-CH2	-5.16	1.27	1.37
3	Y	515	GLN	CD-NE2	-5.16	1.22	1.33
3	7	515	GLN	CD-NE2	-5.16	1.22	1.33
3	F	112	THR	CB-OG1	-5.16	1.35	1.43
3	R	221	TYR	CZ-OH	-5.16	1.27	1.38
3	R	515	GLN	CD-NE2	-5.16	1.22	1.33
3	V	219	VAL	CB-CG2	-5.16	1.35	1.52
1	W	85	ILE	CG1-CD1	-5.16	1.31	1.51
3	Y	571	PHE	CD1-CE1	-5.16	1.23	1.38
3	4	150	HIS	C-N	-5.16	1.27	1.33
3	4	286	ALA	CA-CB	-5.16	1.46	1.53
3	U	433	LYS	N-CA	-5.16	1.39	1.45
3	F	232	ASN	CA-CB	-5.16	1.45	1.53
3	R	571	PHE	CD1-CE1	-5.16	1.23	1.38
3	1	571	PHE	CD1-CE1	-5.16	1.23	1.38
3	7	343	ARG	CD-NE	-5.16	1.39	1.46
3	7	376	TRP	CG-CD2	-5.16	1.34	1.43
3	C	376	TRP	CE2-CZ2	-5.16	1.29	1.39
3	O	151	ALA	CA-CB	-5.16	1.45	1.53
3	O	219	VAL	CB-CG2	-5.16	1.35	1.52
3	V	376	TRP	CE2-CZ2	-5.16	1.29	1.39
3	V	376	TRP	CG-CD2	-5.16	1.34	1.43
3	Y	150	HIS	C-N	-5.16	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	112	THR	CB-OG1	-5.16	1.35	1.43
3	U	376	TRP	CE2-CZ2	-5.16	1.29	1.39
3	L	452	VAL	CB-CG2	-5.16	1.35	1.52
3	L	460	TRP	CZ2-CH2	-5.16	1.27	1.37
3	O	440	TRP	CG-CD2	-5.16	1.34	1.43
1	S	85	ILE	CG1-CD1	-5.16	1.31	1.51
3	1	526	SER	CB-OG	-5.16	1.31	1.42
3	7	506	VAL	CB-CG1	-5.16	1.35	1.52
3	U	460	TRP	CZ2-CH2	-5.16	1.27	1.37
3	F	443	ARG	N-CA	-5.15	1.39	1.46
3	I	156	VAL	CB-CG2	-5.15	1.35	1.52
3	V	139	HIS	C-O	-5.15	1.16	1.23
3	7	571	PHE	CD1-CE1	-5.15	1.23	1.38
3	C	443	ARG	N-CA	-5.15	1.39	1.46
1	P	7	GLU	CD-OE2	-5.15	1.15	1.25
1	P	85	ILE	CG1-CD1	-5.15	1.31	1.51
3	V	112	THR	CB-OG1	-5.15	1.35	1.43
3	V	452	VAL	CB-CG2	-5.15	1.35	1.52
3	Y	526	SER	CB-OG	-5.15	1.31	1.42
1	2	85	ILE	CG1-CD1	-5.15	1.31	1.51
3	4	571	PHE	CD1-CE1	-5.15	1.23	1.38
3	I	452	VAL	CB-CG2	-5.15	1.35	1.52
3	I	506	VAL	CB-CG1	-5.15	1.35	1.52
3	L	219	VAL	CB-CG2	-5.15	1.35	1.52
3	O	145	PRO	C-N	-5.15	1.26	1.33
3	O	221	TYR	CZ-OH	-5.15	1.27	1.38
3	R	376	TRP	CE2-CZ2	-5.15	1.29	1.39
3	V	571	PHE	CD1-CE1	-5.15	1.23	1.38
3	C	219	VAL	CB-CG2	-5.15	1.35	1.52
3	C	571	PHE	CD1-CE1	-5.15	1.23	1.38
3	F	185	MET	N-CA	-5.15	1.39	1.46
3	I	139	HIS	C-O	-5.15	1.16	1.23
3	L	473	PRO	CG-CD	-5.15	1.33	1.50
3	V	443	ARG	N-CA	-5.15	1.39	1.46
3	Y	443	ARG	N-CA	-5.15	1.39	1.46
3	1	139	HIS	C-O	-5.15	1.16	1.23
3	1	185	MET	N-CA	-5.15	1.39	1.46
3	1	376	TRP	CE2-CZ2	-5.15	1.29	1.39
3	1	506	VAL	CB-CG1	-5.15	1.35	1.52
3	4	13	PHE	C-N	-5.15	1.25	1.33
3	7	286	ALA	CA-CB	-5.15	1.46	1.53
3	U	506	VAL	CB-CG1	-5.15	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	506	VAL	CB-CG1	-5.15	1.35	1.52
1	G	7	GLU	CD-OE2	-5.15	1.15	1.25
3	Y	343	ARG	CD-NE	-5.15	1.39	1.46
3	1	460	TRP	CZ2-CH2	-5.15	1.27	1.37
3	7	151	ALA	CA-CB	-5.15	1.45	1.53
3	C	139	HIS	C-O	-5.14	1.16	1.23
3	F	219	VAL	CB-CG2	-5.14	1.35	1.52
3	O	506	VAL	CB-CG1	-5.14	1.35	1.52
3	R	139	HIS	C-O	-5.14	1.16	1.23
3	R	452	VAL	CB-CG2	-5.14	1.35	1.52
3	V	343	ARG	CD-NE	-5.14	1.39	1.46
3	4	460	TRP	CZ2-CH2	-5.14	1.27	1.37
3	U	443	ARG	N-CA	-5.14	1.39	1.46
3	1	156	VAL	CB-CG2	-5.14	1.35	1.52
3	7	433	LYS	N-CA	-5.14	1.39	1.45
3	C	343	ARG	CD-NE	-5.14	1.39	1.46
3	O	156	VAL	CB-CG2	-5.14	1.35	1.52
3	Y	112	THR	CB-OG1	-5.14	1.35	1.43
3	U	139	HIS	C-O	-5.14	1.16	1.23
3	C	452	VAL	CB-CG2	-5.14	1.35	1.52
3	F	376	TRP	CG-CD2	-5.14	1.34	1.43
3	I	145	PRO	C-N	-5.14	1.26	1.33
3	I	150	HIS	C-N	-5.14	1.27	1.33
3	R	13	PHE	C-N	-5.14	1.25	1.33
2	T	80	ASN	C-O	-5.14	1.17	1.24
2	T	87	ARG	CD-NE	-5.14	1.39	1.46
3	V	506	VAL	CB-CG1	-5.14	1.35	1.52
3	7	219	VAL	CB-CG2	-5.14	1.35	1.52
3	U	145	PRO	C-N	-5.14	1.26	1.33
3	U	515	GLN	CD-NE2	-5.14	1.22	1.33
3	4	473	PRO	CG-CD	-5.14	1.33	1.50
3	U	219	VAL	CB-CG2	-5.14	1.35	1.52
3	C	506	VAL	CB-CG1	-5.14	1.35	1.52
3	F	376	TRP	CE2-CZ2	-5.14	1.29	1.39
3	I	343	ARG	CD-NE	-5.14	1.39	1.46
3	I	473	PRO	CG-CD	-5.14	1.33	1.50
3	O	443	ARG	N-CA	-5.14	1.39	1.46
3	R	443	ARG	N-CA	-5.14	1.39	1.46
3	V	156	VAL	CB-CG2	-5.14	1.35	1.52
3	4	219	VAL	CB-CG2	-5.14	1.35	1.52
3	4	452	VAL	CB-CG2	-5.14	1.35	1.52
3	4	515	GLN	CD-NE2	-5.14	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	219	VAL	CB-CG2	-5.13	1.35	1.52
3	O	118	GLY	N-CA	-5.13	1.38	1.45
3	O	376	TRP	CE2-CZ2	-5.13	1.29	1.39
3	O	571	PHE	CD1-CE1	-5.13	1.23	1.38
3	Y	433	LYS	N-CA	-5.13	1.39	1.45
3	U	571	PHE	CD1-CE1	-5.13	1.23	1.38
3	7	376	TRP	CE2-CZ2	-5.13	1.29	1.39
2	H	80	ASN	C-O	-5.13	1.17	1.24
3	I	443	ARG	N-CA	-5.13	1.40	1.46
3	L	112	THR	CB-OG1	-5.13	1.35	1.43
3	V	440	TRP	CG-CD2	-5.13	1.34	1.43
2	X	87	ARG	CD-NE	-5.13	1.39	1.46
3	7	185	MET	N-CA	-5.13	1.39	1.46
3	F	571	PHE	CD1-CE1	-5.13	1.23	1.38
3	L	506	VAL	CB-CG1	-5.13	1.35	1.52
3	R	156	VAL	CB-CG2	-5.13	1.35	1.52
3	V	473	PRO	CG-CD	-5.13	1.33	1.50
3	1	440	TRP	CG-CD2	-5.13	1.34	1.43
3	4	156	VAL	CB-CG2	-5.13	1.35	1.52
3	C	156	VAL	CB-CG2	-5.13	1.35	1.52
3	F	156	VAL	CB-CG2	-5.13	1.35	1.52
3	F	473	PRO	CG-CD	-5.13	1.33	1.50
3	V	13	PHE	C-N	-5.13	1.25	1.33
3	4	443	ARG	N-CA	-5.13	1.40	1.46
3	7	139	HIS	C-O	-5.13	1.16	1.23
3	7	452	VAL	CB-CG2	-5.13	1.35	1.52
3	U	156	VAL	CB-CG2	-5.13	1.35	1.52
3	F	440	TRP	CG-CD2	-5.13	1.34	1.43
3	Y	156	VAL	CB-CG2	-5.13	1.35	1.52
3	Y	219	VAL	CB-CG2	-5.13	1.35	1.52
3	1	343	ARG	CD-NE	-5.13	1.39	1.46
3	7	13	PHE	C-N	-5.13	1.25	1.33
3	R	220	GLY	C-N	-5.12	1.26	1.33
3	R	473	PRO	CG-CD	-5.12	1.33	1.50
3	U	473	PRO	CG-CD	-5.12	1.33	1.50
3	C	118	GLY	N-CA	-5.12	1.38	1.45
3	C	473	PRO	CG-CD	-5.12	1.33	1.50
2	Q	80	ASN	C-O	-5.12	1.17	1.24
3	R	185	MET	N-CA	-5.12	1.39	1.46
3	V	118	GLY	N-CA	-5.12	1.38	1.45
3	1	473	PRO	CG-CD	-5.12	1.33	1.50
2	6	87	ARG	CD-NE	-5.12	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	156	VAL	CB-CG2	-5.12	1.35	1.52
3	U	343	ARG	CD-NE	-5.12	1.39	1.46
3	U	452	VAL	CB-CG2	-5.12	1.35	1.52
3	F	452	VAL	CB-CG2	-5.12	1.35	1.52
3	V	220	GLY	C-N	-5.12	1.26	1.33
3	Y	139	HIS	C-O	-5.12	1.16	1.23
3	1	452	VAL	CB-CG2	-5.12	1.35	1.52
3	4	118	GLY	N-CA	-5.12	1.38	1.45
3	4	506	VAL	CB-CG1	-5.12	1.35	1.52
3	I	118	GLY	N-CA	-5.12	1.38	1.45
3	R	343	ARG	CD-NE	-5.12	1.39	1.46
3	U	118	GLY	N-CA	-5.12	1.38	1.45
2	B	80	ASN	C-O	-5.12	1.17	1.24
3	F	13	PHE	C-N	-5.12	1.25	1.33
3	I	13	PHE	C-N	-5.12	1.25	1.33
2	Q	55	VAL	CB-CG1	-5.12	1.35	1.52
2	0	80	ASN	C-O	-5.12	1.17	1.24
2	3	87	ARG	CD-NE	-5.12	1.39	1.46
3	7	473	PRO	CG-CD	-5.12	1.33	1.50
3	L	156	VAL	CB-CG2	-5.12	1.35	1.52
2	X	80	ASN	C-O	-5.12	1.17	1.24
3	1	219	VAL	CB-CG2	-5.12	1.35	1.52
3	4	185	MET	N-CA	-5.12	1.39	1.46
3	7	220	GLY	C-N	-5.12	1.26	1.33
3	C	13	PHE	C-N	-5.12	1.25	1.33
3	I	92	ARG	CZ-NH2	-5.12	1.26	1.33
3	I	440	TRP	CG-CD2	-5.12	1.34	1.43
3	L	478	TYR	CZ-OH	-5.12	1.27	1.38
3	Y	506	VAL	CB-CG1	-5.12	1.35	1.52
3	7	404	ARG	CB-CG	-5.12	1.37	1.52
3	U	220	GLY	C-N	-5.12	1.26	1.33
3	C	440	TRP	CG-CD2	-5.11	1.34	1.43
2	H	55	VAL	CB-CG1	-5.11	1.35	1.52
2	H	87	ARG	CD-NE	-5.11	1.39	1.46
3	I	220	GLY	C-N	-5.11	1.26	1.33
2	K	55	VAL	CB-CG1	-5.11	1.35	1.52
3	O	13	PHE	C-N	-5.11	1.25	1.33
3	O	473	PRO	CG-CD	-5.11	1.33	1.50
3	7	118	GLY	N-CA	-5.11	1.38	1.45
3	7	164	ILE	C-O	-5.11	1.18	1.24
3	C	145	PRO	C-N	-5.11	1.26	1.33
3	L	220	GLY	C-N	-5.11	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	55	VAL	CB-CG1	-5.11	1.35	1.52
3	V	404	ARG	CB-CG	-5.11	1.37	1.52
3	4	22	ARG	CZ-NH1	-5.11	1.25	1.32
2	B	87	ARG	CD-NE	-5.11	1.39	1.46
3	Y	473	PRO	CG-CD	-5.11	1.33	1.50
3	1	118	GLY	N-CA	-5.11	1.38	1.45
2	X	55	VAL	CB-CG1	-5.11	1.35	1.52
2	0	55	VAL	CB-CG1	-5.11	1.35	1.52
3	1	13	PHE	C-N	-5.11	1.25	1.33
3	7	145	PRO	C-N	-5.11	1.26	1.33
3	U	478	TYR	CZ-OH	-5.11	1.27	1.38
3	F	145	PRO	C-N	-5.11	1.26	1.33
2	N	80	ASN	C-O	-5.11	1.17	1.24
3	V	478	TYR	CZ-OH	-5.11	1.27	1.38
3	U	440	TRP	CG-CD2	-5.11	1.34	1.43
3	Y	404	ARG	CB-CG	-5.11	1.37	1.52
2	9	55	VAL	CB-CG1	-5.11	1.35	1.52
2	9	80	ASN	C-O	-5.11	1.17	1.24
3	C	404	ARG	CB-CG	-5.10	1.37	1.52
3	R	440	TRP	CG-CD2	-5.10	1.34	1.43
2	B	55	VAL	CB-CG1	-5.10	1.35	1.52
3	F	404	ARG	CB-CG	-5.10	1.37	1.52
3	O	570	PHE	CE1-CZ	-5.10	1.23	1.38
3	Y	22	ARG	CZ-NH1	-5.10	1.25	1.32
2	3	55	VAL	CB-CG1	-5.10	1.35	1.52
3	R	404	ARG	CB-CG	-5.10	1.37	1.52
3	C	220	GLY	C-N	-5.10	1.26	1.33
3	L	13	PHE	C-N	-5.10	1.25	1.33
3	1	404	ARG	CB-CG	-5.10	1.37	1.52
3	4	404	ARG	CB-CG	-5.10	1.37	1.52
3	F	118	GLY	N-CA	-5.10	1.38	1.45
2	N	87	ARG	CD-NE	-5.10	1.39	1.46
3	V	164	ILE	C-O	-5.10	1.18	1.24
3	4	220	GLY	C-N	-5.10	1.26	1.33
1	8	92	LEU	CG-CD2	-5.10	1.35	1.52
3	U	132	THR	C-N	-5.10	1.26	1.33
2	E	55	VAL	CB-CG1	-5.10	1.35	1.52
3	I	404	ARG	CB-CG	-5.09	1.37	1.52
2	T	55	VAL	CB-CG1	-5.09	1.35	1.52
3	7	440	TRP	CG-CD2	-5.09	1.34	1.43
3	U	404	ARG	CB-CG	-5.09	1.37	1.52
1	M	92	LEU	CG-CD2	-5.09	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	220	GLY	C-N	-5.09	1.26	1.33
2	6	160	PHE	CE2-CZ	-5.09	1.23	1.38
2	9	160	PHE	CE2-CZ	-5.09	1.23	1.38
2	E	160	PHE	CE2-CZ	-5.09	1.23	1.38
3	V	132	THR	C-N	-5.09	1.26	1.33
3	V	145	PRO	C-N	-5.09	1.26	1.33
3	Y	149	TYR	CZ-OH	-5.09	1.27	1.38
1	Z	54	GLU	CB-CG	-5.09	1.37	1.52
1	J	54	GLU	CB-CG	-5.09	1.37	1.52
3	R	92	ARG	CZ-NH2	-5.09	1.26	1.33
3	Y	13	PHE	C-N	-5.09	1.25	1.33
3	Y	147	GLN	C-N	-5.09	1.27	1.33
3	1	149	TYR	CZ-OH	-5.09	1.27	1.38
3	C	478	TYR	CZ-OH	-5.09	1.27	1.38
2	E	80	ASN	C-O	-5.09	1.17	1.24
3	F	132	THR	C-N	-5.09	1.26	1.33
3	I	478	TYR	CZ-OH	-5.09	1.27	1.38
1	J	92	LEU	CG-CD2	-5.09	1.35	1.52
3	O	139	HIS	C-O	-5.09	1.16	1.23
3	R	478	TYR	CZ-OH	-5.09	1.27	1.38
2	0	160	PHE	CE2-CZ	-5.09	1.23	1.38
2	9	87	ARG	CD-NE	-5.09	1.39	1.46
3	U	13	PHE	C-N	-5.09	1.25	1.33
3	F	164	ILE	C-O	-5.08	1.18	1.24
3	4	440	TRP	CG-CD2	-5.08	1.34	1.43
3	L	343	ARG	CD-NE	-5.08	1.39	1.46
3	O	404	ARG	CB-CG	-5.08	1.37	1.52
3	V	149	TYR	CZ-OH	-5.08	1.27	1.38
1	D	92	LEU	CG-CD2	-5.08	1.35	1.52
3	F	105	PRO	CB-CG	-5.08	1.24	1.49
2	K	80	ASN	C-O	-5.08	1.17	1.24
3	L	404	ARG	CB-CG	-5.08	1.37	1.52
3	O	478	TYR	CZ-OH	-5.08	1.27	1.38
3	R	105	PRO	CB-CG	-5.08	1.24	1.49
1	S	92	LEU	CG-CD2	-5.08	1.35	1.52
2	6	55	VAL	CB-CG1	-5.08	1.35	1.52
3	7	105	PRO	CB-CG	-5.08	1.24	1.49
3	7	478	TYR	CZ-OH	-5.08	1.27	1.38
1	8	54	GLU	CB-CG	-5.08	1.37	1.52
3	L	236	HIS	CA-CB	-5.08	1.45	1.53
3	O	22	ARG	CZ-NH1	-5.08	1.25	1.32
3	O	105	PRO	CB-CG	-5.08	1.24	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	92	ARG	CZ-NH2	-5.08	1.26	1.33
3	L	105	PRO	CB-CG	-5.08	1.24	1.49
3	V	105	PRO	CB-CG	-5.08	1.24	1.49
2	3	80	ASN	C-O	-5.08	1.17	1.24
3	4	105	PRO	CB-CG	-5.08	1.24	1.49
2	6	80	ASN	C-O	-5.08	1.17	1.24
1	G	92	LEU	CG-CD2	-5.08	1.35	1.52
3	Y	105	PRO	CB-CG	-5.08	1.24	1.49
3	Y	478	TYR	CZ-OH	-5.08	1.27	1.38
2	B	160	PHE	CE2-CZ	-5.08	1.23	1.38
3	C	105	PRO	CB-CG	-5.08	1.24	1.49
2	E	87	ARG	CD-NE	-5.08	1.39	1.46
3	L	118	GLY	N-CA	-5.08	1.38	1.45
3	Y	220	GLY	C-N	-5.08	1.26	1.33
3	4	478	TYR	CZ-OH	-5.08	1.27	1.38
3	7	92	ARG	CZ-NH2	-5.08	1.26	1.33
3	U	105	PRO	CB-CG	-5.08	1.24	1.49
1	A	92	LEU	CG-CD2	-5.07	1.35	1.52
3	L	440	TRP	CG-CD2	-5.07	1.34	1.43
2	T	160	PHE	CE2-CZ	-5.07	1.23	1.38
3	Y	440	TRP	CG-CD2	-5.07	1.34	1.43
3	1	105	PRO	CB-CG	-5.07	1.24	1.49
3	4	570	PHE	CE1-CZ	-5.07	1.23	1.38
3	7	236	HIS	CA-CB	-5.07	1.45	1.53
3	C	149	TYR	CZ-OH	-5.07	1.27	1.38
3	I	147	GLN	C-N	-5.07	1.27	1.33
3	L	22	ARG	CZ-NH1	-5.07	1.25	1.32
1	W	92	LEU	CG-CD2	-5.07	1.35	1.52
3	4	149	TYR	CZ-OH	-5.07	1.27	1.38
3	I	105	PRO	CB-CG	-5.07	1.24	1.49
2	K	160	PHE	CE2-CZ	-5.07	1.23	1.38
2	X	160	PHE	CE2-CZ	-5.07	1.23	1.38
3	Y	570	PHE	CE1-CZ	-5.07	1.23	1.38
3	F	22	ARG	CZ-NH1	-5.07	1.25	1.32
3	F	220	GLY	C-N	-5.07	1.26	1.33
2	Q	87	ARG	CD-NE	-5.07	1.39	1.46
2	3	160	PHE	CE2-CZ	-5.07	1.23	1.38
1	A	54	GLU	CB-CG	-5.07	1.37	1.52
3	C	570	PHE	CE1-CZ	-5.07	1.23	1.38
2	K	87	ARG	CD-NE	-5.07	1.39	1.46
3	R	570	PHE	CE1-CZ	-5.07	1.23	1.38
3	4	145	PRO	C-N	-5.07	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4	315	ALA	CA-CB	-5.07	1.45	1.53
3	7	149	TYR	CZ-OH	-5.07	1.27	1.38
1	G	54	GLU	CB-CG	-5.07	1.37	1.52
2	H	160	PHE	CE2-CZ	-5.07	1.23	1.38
3	L	92	ARG	CZ-NH2	-5.07	1.26	1.33
3	R	22	ARG	CZ-NH1	-5.07	1.25	1.32
1	W	54	GLU	CB-CG	-5.07	1.37	1.52
3	Y	118	GLY	N-CA	-5.07	1.38	1.45
1	2	54	GLU	CB-CG	-5.07	1.37	1.52
1	5	92	LEU	CG-CD2	-5.07	1.35	1.52
3	7	22	ARG	CZ-NH1	-5.07	1.25	1.32
3	7	570	PHE	CE1-CZ	-5.07	1.23	1.38
3	U	58	ASN	CG-OD1	-5.07	1.14	1.23
3	U	92	ARG	CZ-NH2	-5.07	1.26	1.33
3	F	478	TYR	CZ-OH	-5.06	1.27	1.38
3	O	58	ASN	CG-OD1	-5.06	1.14	1.23
3	L	149	TYR	CZ-OH	-5.06	1.27	1.38
3	L	570	PHE	CE1-CZ	-5.06	1.23	1.38
3	O	132	THR	C-N	-5.06	1.26	1.33
1	P	54	GLU	CB-CG	-5.06	1.37	1.52
1	P	92	LEU	CG-CD2	-5.06	1.35	1.52
3	1	478	TYR	CZ-OH	-5.06	1.27	1.38
3	I	570	PHE	CE1-CZ	-5.06	1.23	1.38
2	N	155	ALA	CA-CB	-5.06	1.45	1.53
3	U	149	TYR	CZ-OH	-5.06	1.27	1.38
3	C	22	ARG	CZ-NH1	-5.06	1.25	1.32
3	F	164	ILE	CB-CG2	-5.06	1.35	1.52
3	I	58	ASN	CG-OD1	-5.06	1.14	1.23
3	L	132	THR	C-N	-5.06	1.26	1.33
2	Q	160	PHE	CE2-CZ	-5.06	1.23	1.38
3	1	236	HIS	CA-CB	-5.06	1.45	1.53
3	1	570	PHE	CE1-CZ	-5.06	1.23	1.38
3	4	58	ASN	CG-OD1	-5.06	1.14	1.23
3	U	22	ARG	CZ-NH1	-5.06	1.25	1.32
3	I	143	ILE	N-CA	-5.06	1.39	1.46
3	L	147	GLN	C-N	-5.06	1.27	1.33
3	L	164	ILE	C-O	-5.06	1.18	1.24
3	O	236	HIS	CA-CB	-5.06	1.45	1.53
3	R	236	HIS	CA-CB	-5.06	1.45	1.53
1	S	54	GLU	CB-CG	-5.06	1.37	1.52
3	V	147	GLN	C-N	-5.06	1.27	1.33
3	V	308	PRO	CG-CD	-5.06	1.38	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	58	ASN	CG-OD1	-5.06	1.14	1.23
1	Z	92	LEU	CG-CD2	-5.06	1.35	1.52
1	2	92	LEU	CG-CD2	-5.06	1.35	1.52
2	N	160	PHE	CE2-CZ	-5.06	1.23	1.38
2	0	87	ARG	CD-NE	-5.06	1.39	1.46
3	F	570	PHE	CE1-CZ	-5.05	1.23	1.38
2	H	47	ILE	CG1-CD1	-5.05	1.32	1.51
3	V	22	ARG	CZ-NH1	-5.05	1.25	1.32
3	Y	145	PRO	C-N	-5.05	1.26	1.33
2	0	47	ILE	CG1-CD1	-5.05	1.32	1.51
3	7	147	GLN	C-N	-5.05	1.27	1.33
1	D	54	GLU	CB-CG	-5.05	1.37	1.52
2	X	47	ILE	CG1-CD1	-5.05	1.32	1.51
3	1	416	PRO	C-N	-5.05	1.27	1.33
1	5	54	GLU	CB-CG	-5.05	1.37	1.52
3	F	416	PRO	C-N	-5.05	1.27	1.33
3	R	132	THR	C-N	-5.05	1.26	1.33
3	R	149	TYR	CZ-OH	-5.05	1.27	1.38
3	7	291	ARG	CZ-NH2	-5.05	1.26	1.33
3	C	132	THR	C-N	-5.05	1.26	1.33
3	C	164	ILE	C-O	-5.05	1.18	1.24
3	F	149	TYR	CZ-OH	-5.05	1.27	1.38
3	F	236	HIS	CA-CB	-5.05	1.45	1.53
3	I	164	ILE	C-O	-5.05	1.18	1.24
3	I	315	ALA	CA-CB	-5.05	1.45	1.53
3	L	58	ASN	CG-OD1	-5.05	1.14	1.23
3	O	147	GLN	C-N	-5.05	1.27	1.33
3	R	164	ILE	C-O	-5.05	1.18	1.24
3	4	132	THR	C-N	-5.05	1.26	1.33
3	Y	164	ILE	CB-CG2	-5.05	1.35	1.52
3	1	220	GLY	C-N	-5.05	1.26	1.33
3	1	240	MET	CA-CB	-5.05	1.45	1.53
3	U	570	PHE	CE1-CZ	-5.05	1.23	1.38
3	C	58	ASN	CG-OD1	-5.05	1.14	1.23
3	C	92	ARG	CZ-NH2	-5.05	1.26	1.33
2	Q	47	ILE	CG1-CD1	-5.05	1.32	1.51
2	T	47	ILE	CG1-CD1	-5.05	1.32	1.51
3	V	92	ARG	CZ-NH2	-5.05	1.26	1.33
3	7	58	ASN	CG-OD1	-5.05	1.14	1.23
3	C	236	HIS	CA-CB	-5.04	1.45	1.53
2	K	155	ALA	CA-CB	-5.04	1.45	1.53
3	O	149	TYR	CZ-OH	-5.04	1.27	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	47	ILE	CG1-CD1	-5.04	1.32	1.51
2	N	47	ILE	CG1-CD1	-5.04	1.32	1.51
3	R	240	MET	CA-CB	-5.04	1.45	1.53
3	V	58	ASN	CG-OD1	-5.04	1.14	1.23
1	Z	66[A]	LYS	CB-CG	-5.04	1.37	1.52
1	Z	66[B]	LYS	CB-CG	-5.04	1.37	1.52
3	1	58	ASN	CG-OD1	-5.04	1.14	1.23
3	4	143	ILE	N-CA	-5.04	1.39	1.46
3	7	132	THR	C-N	-5.04	1.26	1.33
3	U	164	ILE	C-O	-5.04	1.18	1.24
3	C	147	GLN	C-N	-5.04	1.27	1.33
3	I	149	TYR	CZ-OH	-5.04	1.27	1.38
1	J	66[A]	LYS	CB-CG	-5.04	1.37	1.52
1	J	66[B]	LYS	CB-CG	-5.04	1.37	1.52
1	M	54	GLU	CB-CG	-5.04	1.37	1.52
3	O	240	MET	CA-CB	-5.04	1.45	1.53
3	Y	363	SER	CB-OG	-5.04	1.32	1.42
3	F	488	THR	C-O	-5.04	1.18	1.24
2	X	155	ALA	CA-CB	-5.04	1.45	1.53
3	R	291	ARG	CZ-NH2	-5.04	1.26	1.33
3	R	308	PRO	CG-CD	-5.04	1.38	1.51
3	V	570	PHE	CE1-CZ	-5.04	1.23	1.38
3	1	164	ILE	CB-CG2	-5.04	1.35	1.52
3	U	291	ARG	CZ-NH2	-5.04	1.26	1.33
3	R	145	PRO	C-N	-5.04	1.26	1.33
3	Y	92	ARG	CZ-NH2	-5.04	1.26	1.33
3	1	308	PRO	CG-CD	-5.04	1.38	1.51
3	7	164	ILE	CB-CG2	-5.04	1.35	1.52
2	E	47	ILE	CG1-CD1	-5.04	1.32	1.51
3	O	308	PRO	CG-CD	-5.04	1.38	1.51
3	1	92	ARG	CZ-NH2	-5.04	1.26	1.33
3	4	308	PRO	CG-CD	-5.04	1.38	1.51
3	7	308	PRO	CG-CD	-5.04	1.38	1.51
3	C	164	ILE	CB-CG2	-5.03	1.35	1.52
3	C	308	PRO	CG-CD	-5.03	1.38	1.51
3	L	308	PRO	CG-CD	-5.03	1.38	1.51
3	O	488	THR	C-O	-5.03	1.18	1.24
2	6	47	ILE	CG1-CD1	-5.03	1.32	1.51
2	Q	155	ALA	CA-CB	-5.03	1.45	1.53
3	R	58	ASN	CG-OD1	-5.03	1.14	1.23
3	Y	240	MET	CA-CB	-5.03	1.45	1.53
3	Y	308	PRO	CG-CD	-5.03	1.38	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Y	416	PRO	C-N	-5.03	1.27	1.33
3	C	416	PRO	C-N	-5.03	1.27	1.33
3	F	315	ALA	CA-CB	-5.03	1.45	1.53
3	I	164	ILE	CB-CG2	-5.03	1.35	1.52
3	I	240	MET	CA-CB	-5.03	1.45	1.53
2	K	47	ILE	CG1-CD1	-5.03	1.32	1.51
3	V	236	HIS	CA-CB	-5.03	1.45	1.53
3	Y	153	SER	CB-OG	-5.03	1.32	1.42
3	Y	315	ALA	CA-CB	-5.03	1.45	1.53
3	R	164	ILE	CB-CG2	-5.03	1.35	1.52
3	V	164	ILE	CB-CG2	-5.03	1.35	1.52
3	V	363	SER	CB-OG	-5.03	1.32	1.42
3	V	416	PRO	C-N	-5.03	1.27	1.33
2	3	47	ILE	CG1-CD1	-5.03	1.32	1.51
3	F	308	PRO	CG-CD	-5.03	1.38	1.51
3	L	315	ALA	CA-CB	-5.03	1.45	1.53
2	0	155	ALA	CA-CB	-5.03	1.45	1.53
1	5	66[A]	LYS	CB-CG	-5.03	1.37	1.52
1	5	66[B]	LYS	CB-CG	-5.03	1.37	1.52
3	U	363	SER	CB-OG	-5.03	1.32	1.42
1	D	14	TYR	CG-CD2	-5.03	1.28	1.39
3	I	416	PRO	C-N	-5.03	1.27	1.33
3	R	147	GLN	C-N	-5.03	1.27	1.33
3	4	147	GLN	C-N	-5.03	1.27	1.33
3	4	164	ILE	C-O	-5.03	1.18	1.24
3	4	236	HIS	CA-CB	-5.03	1.45	1.53
3	7	315	ALA	CA-CB	-5.03	1.45	1.53
3	U	236	HIS	CA-CB	-5.03	1.45	1.53
3	U	451	MET	C-O	-5.03	1.17	1.23
1	G	14	TYR	CG-CD2	-5.02	1.28	1.39
3	4	363	SER	CB-OG	-5.02	1.32	1.42
2	9	47	ILE	CG1-CD1	-5.02	1.32	1.51
3	U	164	ILE	CB-CG2	-5.02	1.35	1.52
1	A	66[A]	LYS	CB-CG	-5.02	1.37	1.52
1	A	66[B]	LYS	CB-CG	-5.02	1.37	1.52
2	H	118	PHE	C-N	-5.02	1.27	1.33
3	I	132	THR	C-N	-5.02	1.26	1.33
2	K	118	PHE	C-N	-5.02	1.27	1.33
3	O	164	ILE	CB-CG2	-5.02	1.35	1.52
3	1	147	GLN	C-N	-5.02	1.27	1.33
1	2	66[A]	LYS	CB-CG	-5.02	1.37	1.52
1	2	66[B]	LYS	CB-CG	-5.02	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7	240	MET	CA-CB	-5.02	1.45	1.53
1	8	14	TYR	CG-CD2	-5.02	1.28	1.39
2	9	155	ALA	CA-CB	-5.02	1.45	1.53
2	T	134	TRP	CG-CD1	-5.02	1.24	1.36
3	V	451	MET	C-O	-5.02	1.17	1.23
3	4	164	ILE	CB-CG2	-5.02	1.35	1.52
3	U	308	PRO	CG-CD	-5.02	1.38	1.51
1	G	66[A]	LYS	CB-CG	-5.02	1.37	1.52
1	G	66[B]	LYS	CB-CG	-5.02	1.37	1.52
2	3	155	ALA	CA-CB	-5.02	1.45	1.53
3	4	92	ARG	CZ-NH2	-5.02	1.26	1.33
3	U	143	ILE	N-CA	-5.02	1.39	1.46
3	F	58	ASN	CG-OD1	-5.02	1.14	1.23
3	I	236	HIS	CA-CB	-5.02	1.45	1.53
3	I	308	PRO	CG-CD	-5.02	1.38	1.51
1	P	66[A]	LYS	CB-CG	-5.02	1.37	1.52
1	P	66[B]	LYS	CB-CG	-5.02	1.37	1.52
3	Y	132	THR	C-N	-5.02	1.26	1.33
3	Y	164	ILE	C-O	-5.02	1.18	1.24
3	Y	236	HIS	CA-CB	-5.02	1.45	1.53
3	1	143	ILE	N-CA	-5.02	1.39	1.46
2	B	155	ALA	CA-CB	-5.02	1.45	1.53
3	R	363	SER	CB-OG	-5.02	1.32	1.42
3	V	143	ILE	N-CA	-5.02	1.39	1.46
1	W	66[A]	LYS	CB-CG	-5.02	1.37	1.52
1	W	66[B]	LYS	CB-CG	-5.02	1.37	1.52
2	X	134	TRP	CG-CD1	-5.02	1.24	1.36
3	F	147	GLN	C-N	-5.01	1.27	1.33
3	L	143	ILE	N-CA	-5.01	1.39	1.46
3	7	363	SER	CB-OG	-5.01	1.32	1.42
3	U	416	PRO	C-N	-5.01	1.27	1.33
1	A	14	TYR	CG-CD2	-5.01	1.28	1.39
3	C	363	SER	CB-OG	-5.01	1.32	1.42
3	L	164	ILE	CB-CG2	-5.01	1.36	1.52
1	M	66[A]	LYS	CB-CG	-5.01	1.37	1.52
1	M	66[B]	LYS	CB-CG	-5.01	1.37	1.52
3	O	143	ILE	N-CA	-5.01	1.39	1.46
3	R	315	ALA	CA-CB	-5.01	1.45	1.53
2	T	155	ALA	CA-CB	-5.01	1.45	1.53
3	C	240	MET	CA-CB	-5.01	1.45	1.53
3	F	240	MET	CA-CB	-5.01	1.45	1.53
2	K	49	PHE	CE1-CZ	-5.01	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	451	MET	C-O	-5.01	1.17	1.23
2	3	134	TRP	CG-CD1	-5.01	1.24	1.36
3	C	143	ILE	N-CA	-5.01	1.39	1.46
3	C	315	ALA	CA-CB	-5.01	1.45	1.53
1	J	14	TYR	CG-CD2	-5.01	1.28	1.39
3	U	315	ALA	CA-CB	-5.01	1.45	1.53
1	W	14	TYR	CG-CD2	-5.01	1.28	1.39
3	1	315	ALA	CA-CB	-5.01	1.45	1.53
2	6	134	TRP	CG-CD1	-5.01	1.24	1.36
3	O	363	SER	CB-OG	-5.00	1.32	1.42
1	Z	14	TYR	CG-CD2	-5.00	1.28	1.39
1	5	14	TYR	CG-CD2	-5.00	1.28	1.39
2	E	155	ALA	CA-CB	-5.00	1.45	1.53
3	L	363	SER	CB-OG	-5.00	1.32	1.42
3	O	164	ILE	C-O	-5.00	1.18	1.24
2	Q	118	PHE	C-N	-5.00	1.27	1.33
3	1	153	SER	CB-OG	-5.00	1.32	1.42
1	2	14	TYR	CG-CD2	-5.00	1.28	1.39
2	6	49	PHE	CE1-CZ	-5.00	1.23	1.38
1	8	66[A]	LYS	CB-CG	-5.00	1.37	1.52
1	8	66[B]	LYS	CB-CG	-5.00	1.37	1.52
3	U	147	GLN	C-N	-5.00	1.27	1.33
2	N	134	TRP	CG-CD1	-5.00	1.24	1.36
3	O	92	ARG	CZ-NH2	-5.00	1.26	1.33
3	1	132	THR	C-N	-5.00	1.26	1.33
3	4	149	TYR	CG-CD1	-5.00	1.28	1.39

All (4678) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	140	VAL	CA-C-N	14.47	135.46	119.83
2	E	140	VAL	C-N-CA	14.47	135.46	119.83
2	6	140	VAL	CA-C-N	14.46	135.44	119.83
2	6	140	VAL	C-N-CA	14.46	135.44	119.83
2	Q	140	VAL	CA-C-N	14.45	135.44	119.83
2	Q	140	VAL	C-N-CA	14.45	135.44	119.83
2	N	140	VAL	CA-C-N	14.45	135.44	119.83
2	N	140	VAL	C-N-CA	14.45	135.44	119.83
2	T	140	VAL	CA-C-N	14.45	135.43	119.83
2	T	140	VAL	C-N-CA	14.45	135.43	119.83
2	0	140	VAL	CA-C-N	14.45	135.43	119.83
2	0	140	VAL	C-N-CA	14.45	135.43	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	140	VAL	CA-C-N	14.44	135.43	119.83
2	B	140	VAL	C-N-CA	14.44	135.43	119.83
2	H	140	VAL	CA-C-N	14.44	135.42	119.83
2	H	140	VAL	C-N-CA	14.44	135.42	119.83
2	K	140	VAL	CA-C-N	14.44	135.42	119.83
2	K	140	VAL	C-N-CA	14.44	135.42	119.83
2	9	140	VAL	CA-C-N	14.43	135.41	119.83
2	9	140	VAL	C-N-CA	14.43	135.41	119.83
2	X	140	VAL	CA-C-N	14.42	135.40	119.83
2	X	140	VAL	C-N-CA	14.42	135.40	119.83
2	3	140	VAL	CA-C-N	14.41	135.40	119.83
2	3	140	VAL	C-N-CA	14.41	135.40	119.83
3	U	89	VAL	CA-C-N	14.38	136.10	122.73
3	U	89	VAL	C-N-CA	14.38	136.10	122.73
3	L	89	VAL	CA-C-N	14.35	136.08	122.73
3	L	89	VAL	C-N-CA	14.35	136.08	122.73
3	1	89	VAL	CA-C-N	14.34	136.07	122.73
3	1	89	VAL	C-N-CA	14.34	136.07	122.73
3	4	89	VAL	CA-C-N	14.33	136.06	122.73
3	4	89	VAL	C-N-CA	14.33	136.06	122.73
3	C	89	VAL	CA-C-N	14.31	136.04	122.73
3	C	89	VAL	C-N-CA	14.31	136.04	122.73
3	F	89	VAL	CA-C-N	14.30	136.03	122.73
3	F	89	VAL	C-N-CA	14.30	136.03	122.73
3	O	89	VAL	CA-C-N	14.30	136.03	122.73
3	O	89	VAL	C-N-CA	14.30	136.03	122.73
3	Y	89	VAL	CA-C-N	14.29	136.02	122.73
3	Y	89	VAL	C-N-CA	14.29	136.02	122.73
3	I	89	VAL	CA-C-N	14.29	136.02	122.73
3	I	89	VAL	C-N-CA	14.29	136.02	122.73
3	V	89	VAL	CA-C-N	14.28	136.01	122.73
3	V	89	VAL	C-N-CA	14.28	136.01	122.73
3	7	89	VAL	CA-C-N	14.26	135.99	122.73
3	7	89	VAL	C-N-CA	14.26	135.99	122.73
3	R	89	VAL	CA-C-N	14.23	135.97	122.73
3	R	89	VAL	C-N-CA	14.23	135.97	122.73
3	C	178	GLY	CA-C-N	13.10	134.26	119.32
3	C	178	GLY	C-N-CA	13.10	134.26	119.32
3	1	304	ASN	O-C-N	-11.65	107.92	121.32
3	L	304	ASN	O-C-N	-11.65	107.92	121.32
3	R	304	ASN	O-C-N	-11.64	107.93	121.32
3	F	304	ASN	O-C-N	-11.64	107.94	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	304	ASN	O-C-N	-11.63	107.94	121.32
3	O	304	ASN	O-C-N	-11.62	107.95	121.32
3	Y	304	ASN	O-C-N	-11.62	107.95	121.32
3	C	304	ASN	O-C-N	-11.62	107.96	121.32
3	4	304	ASN	O-C-N	-11.62	107.96	121.32
3	U	304	ASN	O-C-N	-11.61	107.97	121.32
3	7	304	ASN	O-C-N	-11.60	107.98	121.32
3	V	304	ASN	O-C-N	-11.59	107.99	121.32
2	H	145	ARG	O-C-N	-10.79	110.80	121.27
2	E	145	ARG	O-C-N	-10.78	110.81	121.27
2	0	145	ARG	O-C-N	-10.77	110.82	121.27
2	Q	145	ARG	O-C-N	-10.77	110.83	121.27
3	I	90	GLY	N-CA-C	10.75	127.16	110.71
3	F	90	GLY	N-CA-C	10.75	127.15	110.71
3	L	90	GLY	N-CA-C	10.74	127.14	110.71
3	V	90	GLY	N-CA-C	10.74	127.14	110.71
2	9	145	ARG	O-C-N	-10.74	110.86	121.27
2	K	145	ARG	O-C-N	-10.73	110.86	121.27
2	B	145	ARG	O-C-N	-10.73	110.86	121.27
2	T	145	ARG	O-C-N	-10.73	110.86	121.27
2	6	145	ARG	O-C-N	-10.73	110.86	121.27
3	C	90	GLY	N-CA-C	10.73	127.12	110.71
3	U	90	GLY	N-CA-C	10.73	127.13	110.71
3	Y	90	GLY	N-CA-C	10.72	127.12	110.71
3	1	90	GLY	N-CA-C	10.72	127.12	110.71
3	7	90	GLY	N-CA-C	10.72	127.11	110.71
3	4	90	GLY	N-CA-C	10.72	127.11	110.71
3	R	90	GLY	N-CA-C	10.72	127.11	110.71
3	O	364	SER	CA-C-O	-10.71	105.61	120.07
2	3	145	ARG	O-C-N	-10.70	110.89	121.27
3	O	90	GLY	N-CA-C	10.70	127.07	110.71
2	X	145	ARG	O-C-N	-10.69	110.90	121.27
3	I	364	SER	CA-C-O	-10.69	105.64	120.07
2	N	145	ARG	O-C-N	-10.69	110.90	121.27
3	R	364	SER	CA-C-O	-10.69	105.65	120.07
3	4	364	SER	CA-C-O	-10.69	105.64	120.07
3	Y	364	SER	CA-C-O	-10.68	105.65	120.07
3	7	364	SER	CA-C-O	-10.68	105.65	120.07
3	1	364	SER	CA-C-O	-10.68	105.65	120.07
3	F	364	SER	CA-C-O	-10.68	105.66	120.07
3	C	364	SER	CA-C-O	-10.67	105.67	120.07
3	U	364	SER	CA-C-O	-10.66	105.67	120.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	364	SER	CA-C-O	-10.66	105.68	120.07
3	V	364	SER	CA-C-O	-10.65	105.69	120.07
3	U	173	THR	CA-C-N	10.31	137.55	122.08
3	U	173	THR	C-N-CA	10.31	137.55	122.08
3	Y	173	THR	CA-C-N	10.29	137.51	122.08
3	Y	173	THR	C-N-CA	10.29	137.51	122.08
3	4	173	THR	CA-C-N	10.29	137.51	122.08
3	4	173	THR	C-N-CA	10.29	137.51	122.08
3	I	173	THR	CA-C-N	10.28	137.51	122.08
3	I	173	THR	C-N-CA	10.28	137.51	122.08
3	O	173	THR	CA-C-N	10.27	137.49	122.08
3	O	173	THR	C-N-CA	10.27	137.49	122.08
3	C	173	THR	CA-C-N	10.27	137.48	122.08
3	C	173	THR	C-N-CA	10.27	137.48	122.08
3	L	173	THR	CA-C-N	10.27	137.48	122.08
3	L	173	THR	C-N-CA	10.27	137.48	122.08
3	7	173	THR	CA-C-N	10.26	137.47	122.08
3	7	173	THR	C-N-CA	10.26	137.47	122.08
3	F	173	THR	CA-C-N	10.25	137.46	122.08
3	F	173	THR	C-N-CA	10.25	137.46	122.08
3	1	173	THR	CA-C-N	10.24	137.44	122.08
3	1	173	THR	C-N-CA	10.24	137.44	122.08
3	V	173	THR	CA-C-N	10.24	137.44	122.08
3	V	173	THR	C-N-CA	10.24	137.44	122.08
3	R	173	THR	CA-C-N	10.23	137.43	122.08
3	R	173	THR	C-N-CA	10.23	137.43	122.08
3	I	243	GLU	CA-CB-CG	10.07	134.25	114.10
3	O	243	GLU	CA-CB-CG	10.07	134.25	114.10
3	V	243	GLU	CA-CB-CG	10.07	134.24	114.10
3	F	243	GLU	CA-CB-CG	10.07	134.24	114.10
3	7	243	GLU	CA-CB-CG	10.07	134.23	114.10
3	Y	243	GLU	CA-CB-CG	10.06	134.23	114.10
3	C	243	GLU	CA-CB-CG	10.06	134.22	114.10
3	U	243	GLU	CA-CB-CG	10.06	134.22	114.10
3	1	243	GLU	CA-CB-CG	10.05	134.20	114.10
3	4	243	GLU	CA-CB-CG	10.05	134.19	114.10
3	L	243	GLU	CA-CB-CG	10.04	134.19	114.10
3	R	243	GLU	CA-CB-CG	10.04	134.19	114.10
3	Y	427	GLY	N-CA-C	9.59	127.39	114.92
3	F	427	GLY	N-CA-C	9.57	127.36	114.92
3	U	427	GLY	N-CA-C	9.56	127.35	114.92
3	L	427	GLY	N-CA-C	9.56	127.34	114.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	427	GLY	N-CA-C	9.55	127.34	114.92
3	C	427	GLY	N-CA-C	9.55	127.33	114.92
3	V	427	GLY	N-CA-C	9.54	127.33	114.92
3	1	427	GLY	N-CA-C	9.54	127.33	114.92
3	4	427	GLY	N-CA-C	9.54	127.32	114.92
3	I	427	GLY	N-CA-C	9.54	127.32	114.92
3	7	427	GLY	N-CA-C	9.53	127.31	114.92
3	O	427	GLY	N-CA-C	9.51	127.29	114.92
2	K	104	ARG	NE-CZ-NH2	8.94	127.25	119.20
2	T	104	ARG	NE-CZ-NH2	8.91	127.22	119.20
2	X	104	ARG	NE-CZ-NH2	8.90	127.21	119.20
2	3	104	ARG	NE-CZ-NH2	8.90	127.21	119.20
2	Q	104	ARG	NE-CZ-NH2	8.89	127.20	119.20
2	B	104	ARG	NE-CZ-NH2	8.88	127.19	119.20
2	6	104	ARG	NE-CZ-NH2	8.86	127.18	119.20
2	E	104	ARG	NE-CZ-NH2	8.86	127.18	119.20
2	H	104	ARG	NE-CZ-NH2	8.85	127.16	119.20
2	0	104	ARG	NE-CZ-NH2	8.83	127.15	119.20
2	9	104	ARG	NE-CZ-NH2	8.82	127.14	119.20
2	N	104	ARG	NE-CZ-NH2	8.82	127.14	119.20
3	1	350	GLU	CA-C-N	8.78	131.86	120.44
3	1	350	GLU	C-N-CA	8.78	131.86	120.44
3	I	350	GLU	CA-C-N	8.78	131.85	120.44
3	I	350	GLU	C-N-CA	8.78	131.85	120.44
3	L	350	GLU	CA-C-N	8.77	131.84	120.44
3	L	350	GLU	C-N-CA	8.77	131.84	120.44
3	Y	350	GLU	CA-C-N	8.76	131.83	120.44
3	Y	350	GLU	C-N-CA	8.76	131.83	120.44
3	F	350	GLU	CA-C-N	8.76	131.82	120.44
3	F	350	GLU	C-N-CA	8.76	131.82	120.44
3	C	350	GLU	CA-C-N	8.75	131.81	120.44
3	C	350	GLU	C-N-CA	8.75	131.81	120.44
3	O	350	GLU	CA-C-N	8.74	131.80	120.44
3	O	350	GLU	C-N-CA	8.74	131.80	120.44
3	4	350	GLU	CA-C-N	8.73	131.79	120.44
3	4	350	GLU	C-N-CA	8.73	131.79	120.44
3	R	350	GLU	CA-C-N	8.72	131.78	120.44
3	R	350	GLU	C-N-CA	8.72	131.78	120.44
3	V	350	GLU	CA-C-N	8.72	131.78	120.44
3	V	350	GLU	C-N-CA	8.72	131.78	120.44
3	7	350	GLU	CA-C-N	8.72	131.78	120.44
3	7	350	GLU	C-N-CA	8.72	131.78	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	350	GLU	CA-C-N	8.72	131.77	120.44
3	U	350	GLU	C-N-CA	8.72	131.77	120.44
3	L	458	ILE	CA-CB-CG1	8.67	125.15	110.40
3	I	458	ILE	CA-CB-CG1	8.66	125.13	110.40
3	7	458	ILE	CA-CB-CG1	8.65	125.11	110.40
3	O	458	ILE	CA-CB-CG1	8.65	125.10	110.40
3	1	458	ILE	CA-CB-CG1	8.64	125.10	110.40
3	C	458	ILE	CA-CB-CG1	8.64	125.09	110.40
3	U	458	ILE	CA-CB-CG1	8.64	125.09	110.40
3	V	458	ILE	CA-CB-CG1	8.63	125.08	110.40
3	F	458	ILE	CA-CB-CG1	8.63	125.07	110.40
3	Y	458	ILE	CA-CB-CG1	8.62	125.05	110.40
3	4	458	ILE	CA-CB-CG1	8.62	125.05	110.40
3	R	458	ILE	CA-CB-CG1	8.61	125.04	110.40
2	Q	104	ARG	NE-CZ-NH1	-8.54	112.96	121.50
2	X	104	ARG	NE-CZ-NH1	-8.53	112.97	121.50
2	3	104	ARG	NE-CZ-NH1	-8.53	112.97	121.50
2	H	104	ARG	NE-CZ-NH1	-8.52	112.98	121.50
2	T	104	ARG	NE-CZ-NH1	-8.52	112.98	121.50
2	9	104	ARG	NE-CZ-NH1	-8.52	112.98	121.50
2	B	104	ARG	NE-CZ-NH1	-8.51	112.99	121.50
2	K	104	ARG	NE-CZ-NH1	-8.49	113.01	121.50
2	6	104	ARG	NE-CZ-NH1	-8.49	113.01	121.50
2	N	104	ARG	NE-CZ-NH1	-8.48	113.02	121.50
2	0	104	ARG	NE-CZ-NH1	-8.48	113.02	121.50
2	E	104	ARG	NE-CZ-NH1	-8.48	113.02	121.50
3	7	378	ARG	CA-C-N	8.42	131.80	120.77
3	7	378	ARG	C-N-CA	8.42	131.80	120.77
2	H	145	ARG	CA-C-N	8.41	128.53	119.28
2	H	145	ARG	C-N-CA	8.41	128.53	119.28
3	R	378	ARG	CA-C-N	8.40	131.78	120.77
3	R	378	ARG	C-N-CA	8.40	131.78	120.77
3	V	378	ARG	CA-C-N	8.40	131.78	120.77
3	V	378	ARG	C-N-CA	8.40	131.78	120.77
3	C	378	ARG	CA-C-N	8.40	131.77	120.77
3	C	378	ARG	C-N-CA	8.40	131.77	120.77
3	Y	378	ARG	CA-C-N	8.39	131.76	120.77
3	Y	378	ARG	C-N-CA	8.39	131.76	120.77
2	9	145	ARG	CA-C-N	8.39	128.51	119.28
2	9	145	ARG	C-N-CA	8.39	128.51	119.28
3	4	378	ARG	CA-C-N	8.39	131.76	120.77
3	4	378	ARG	C-N-CA	8.39	131.76	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	378	ARG	CA-C-N	8.39	131.76	120.77
3	U	378	ARG	C-N-CA	8.39	131.76	120.77
2	E	145	ARG	CA-C-N	8.39	128.50	119.28
2	E	145	ARG	C-N-CA	8.39	128.50	119.28
3	O	378	ARG	CA-C-N	8.38	131.75	120.77
3	O	378	ARG	C-N-CA	8.38	131.75	120.77
3	1	378	ARG	CA-C-N	8.38	131.75	120.77
3	1	378	ARG	C-N-CA	8.38	131.75	120.77
3	L	378	ARG	CA-C-N	8.38	131.75	120.77
3	L	378	ARG	C-N-CA	8.38	131.75	120.77
2	0	145	ARG	CA-C-N	8.38	128.50	119.28
2	0	145	ARG	C-N-CA	8.38	128.50	119.28
2	X	145	ARG	CA-C-N	8.37	128.49	119.28
2	X	145	ARG	C-N-CA	8.37	128.49	119.28
3	F	378	ARG	CA-C-N	8.37	131.73	120.77
3	F	378	ARG	C-N-CA	8.37	131.73	120.77
2	Q	145	ARG	CA-C-N	8.37	128.49	119.28
2	Q	145	ARG	C-N-CA	8.37	128.49	119.28
2	B	145	ARG	CA-C-N	8.37	128.48	119.28
2	B	145	ARG	C-N-CA	8.37	128.48	119.28
2	T	145	ARG	CA-C-N	8.36	128.48	119.28
2	T	145	ARG	C-N-CA	8.36	128.48	119.28
3	I	378	ARG	CA-C-N	8.36	131.72	120.77
3	I	378	ARG	C-N-CA	8.36	131.72	120.77
2	N	145	ARG	CA-C-N	8.36	128.47	119.28
2	N	145	ARG	C-N-CA	8.36	128.47	119.28
2	6	145	ARG	CA-C-N	8.35	128.46	119.28
2	6	145	ARG	C-N-CA	8.35	128.46	119.28
2	3	145	ARG	CA-C-N	8.34	128.46	119.28
2	3	145	ARG	C-N-CA	8.34	128.46	119.28
2	K	145	ARG	CA-C-N	8.34	128.45	119.28
2	K	145	ARG	C-N-CA	8.34	128.45	119.28
3	Y	461	ALA	N-CA-C	8.24	121.04	108.52
3	F	434[A]	MET	CA-C-N	-8.22	109.10	122.26
3	F	434[A]	MET	C-N-CA	-8.22	109.10	122.26
3	F	434[B]	MET	CA-C-N	-8.22	109.10	122.26
3	F	434[B]	MET	C-N-CA	-8.22	109.10	122.26
3	R	434[A]	MET	CA-C-N	-8.22	109.10	122.26
3	R	434[A]	MET	C-N-CA	-8.22	109.10	122.26
3	R	434[B]	MET	CA-C-N	-8.22	109.10	122.26
3	R	434[B]	MET	C-N-CA	-8.22	109.10	122.26
3	1	434[A]	MET	CA-C-N	-8.22	109.10	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	434[A]	MET	C-N-CA	-8.22	109.10	122.26
3	1	434[B]	MET	CA-C-N	-8.22	109.10	122.26
3	1	434[B]	MET	C-N-CA	-8.22	109.10	122.26
3	L	434[A]	MET	CA-C-N	-8.21	109.12	122.26
3	L	434[A]	MET	C-N-CA	-8.21	109.12	122.26
3	L	434[B]	MET	CA-C-N	-8.21	109.12	122.26
3	L	434[B]	MET	C-N-CA	-8.21	109.12	122.26
3	4	434[A]	MET	CA-C-N	-8.20	109.14	122.26
3	4	434[A]	MET	C-N-CA	-8.20	109.14	122.26
3	4	434[B]	MET	CA-C-N	-8.20	109.14	122.26
3	4	434[B]	MET	C-N-CA	-8.20	109.14	122.26
3	I	434[A]	MET	CA-C-N	-8.20	109.14	122.26
3	I	434[A]	MET	C-N-CA	-8.20	109.14	122.26
3	I	434[B]	MET	CA-C-N	-8.20	109.14	122.26
3	I	434[B]	MET	C-N-CA	-8.20	109.14	122.26
3	7	434[A]	MET	CA-C-N	-8.20	109.14	122.26
3	7	434[A]	MET	C-N-CA	-8.20	109.14	122.26
3	7	434[B]	MET	CA-C-N	-8.20	109.14	122.26
3	7	434[B]	MET	C-N-CA	-8.20	109.14	122.26
3	C	434[A]	MET	CA-C-N	-8.20	109.15	122.26
3	C	434[A]	MET	C-N-CA	-8.20	109.15	122.26
3	C	434[B]	MET	CA-C-N	-8.20	109.15	122.26
3	C	434[B]	MET	C-N-CA	-8.20	109.15	122.26
3	V	434[A]	MET	CA-C-N	-8.20	109.15	122.26
3	V	434[A]	MET	C-N-CA	-8.20	109.15	122.26
3	V	434[B]	MET	CA-C-N	-8.20	109.15	122.26
3	V	434[B]	MET	C-N-CA	-8.20	109.15	122.26
3	U	434[A]	MET	CA-C-N	-8.20	109.15	122.26
3	U	434[A]	MET	C-N-CA	-8.20	109.15	122.26
3	U	434[B]	MET	CA-C-N	-8.20	109.15	122.26
3	U	434[B]	MET	C-N-CA	-8.20	109.15	122.26
3	O	434[A]	MET	CA-C-N	-8.19	109.17	122.26
3	O	434[A]	MET	C-N-CA	-8.19	109.17	122.26
3	O	434[B]	MET	CA-C-N	-8.19	109.17	122.26
3	O	434[B]	MET	C-N-CA	-8.19	109.17	122.26
3	Y	434[A]	MET	CA-C-N	-8.18	109.18	122.26
3	Y	434[A]	MET	C-N-CA	-8.18	109.18	122.26
3	Y	434[B]	MET	CA-C-N	-8.18	109.18	122.26
3	Y	434[B]	MET	C-N-CA	-8.18	109.18	122.26
3	F	454	LYS	CA-C-O	8.12	129.09	120.33
3	4	199	LEU	CA-C-N	8.11	132.98	121.30
3	4	199	LEU	C-N-CA	8.11	132.98	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	199	LEU	CA-C-N	8.11	132.97	121.30
3	1	199	LEU	C-N-CA	8.11	132.97	121.30
3	7	199	LEU	CA-C-N	8.11	132.97	121.30
3	7	199	LEU	C-N-CA	8.11	132.97	121.30
3	R	199	LEU	CA-C-N	8.09	132.96	121.30
3	R	199	LEU	C-N-CA	8.09	132.96	121.30
3	R	454	LYS	CA-C-O	8.09	129.07	120.33
3	L	454	LYS	CA-C-O	8.09	129.06	120.33
3	V	199	LEU	CA-C-N	8.08	132.94	121.30
3	V	199	LEU	C-N-CA	8.08	132.94	121.30
3	Y	454	LYS	CA-C-O	8.08	129.06	120.33
3	L	199	LEU	CA-C-N	8.08	132.93	121.30
3	L	199	LEU	C-N-CA	8.08	132.93	121.30
3	U	454	LYS	CA-C-O	8.07	129.05	120.33
3	C	199	LEU	CA-C-N	8.07	132.92	121.30
3	C	199	LEU	C-N-CA	8.07	132.92	121.30
3	V	454	LYS	CA-C-O	8.06	129.04	120.33
3	C	454	LYS	CA-C-O	8.06	129.03	120.33
3	O	199	LEU	CA-C-N	8.06	132.91	121.30
3	O	199	LEU	C-N-CA	8.06	132.91	121.30
3	Y	199	LEU	CA-C-N	8.06	132.91	121.30
3	Y	199	LEU	C-N-CA	8.06	132.91	121.30
3	I	454	LYS	CA-C-O	8.06	129.03	120.33
3	U	199	LEU	CA-C-N	8.06	132.90	121.30
3	U	199	LEU	C-N-CA	8.06	132.90	121.30
3	F	199	LEU	CA-C-N	8.05	132.89	121.30
3	F	199	LEU	C-N-CA	8.05	132.89	121.30
3	I	199	LEU	CA-C-N	8.04	132.88	121.30
3	I	199	LEU	C-N-CA	8.04	132.88	121.30
3	7	454	LYS	CA-C-O	8.04	129.01	120.33
3	O	454	LYS	CA-C-O	8.03	129.00	120.33
3	4	454	LYS	CA-C-O	8.01	128.98	120.33
3	1	454	LYS	CA-C-O	8.01	128.98	120.33
2	Q	141	PRO	CA-N-CD	-7.92	100.91	112.00
2	9	141	PRO	CA-N-CD	-7.92	100.92	112.00
2	E	141	PRO	CA-N-CD	-7.91	100.93	112.00
2	6	141	PRO	CA-N-CD	-7.91	100.93	112.00
2	T	141	PRO	CA-N-CD	-7.91	100.93	112.00
2	B	141	PRO	CA-N-CD	-7.91	100.93	112.00
2	0	141	PRO	CA-N-CD	-7.91	100.93	112.00
2	3	141	PRO	CA-N-CD	-7.90	100.94	112.00
2	H	141	PRO	CA-N-CD	-7.90	100.94	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	371	ARG	CA-C-N	7.89	133.57	120.62
3	I	371	ARG	C-N-CA	7.89	133.57	120.62
3	V	371	ARG	CA-C-N	7.89	133.56	120.62
3	V	371	ARG	C-N-CA	7.89	133.56	120.62
2	X	141	PRO	CA-N-CD	-7.89	100.95	112.00
3	R	371	ARG	CA-C-N	7.88	133.55	120.62
3	R	371	ARG	C-N-CA	7.88	133.55	120.62
3	U	523	ARG	NE-CZ-NH2	7.88	126.30	119.20
3	Y	371	ARG	CA-C-N	7.88	133.55	120.62
3	Y	371	ARG	C-N-CA	7.88	133.55	120.62
2	N	141	PRO	CA-N-CD	-7.88	100.97	112.00
2	K	141	PRO	CA-N-CD	-7.88	100.97	112.00
3	7	371	ARG	CA-C-N	7.88	133.54	120.62
3	7	371	ARG	C-N-CA	7.88	133.54	120.62
3	C	371	ARG	CA-C-N	7.88	133.53	120.62
3	C	371	ARG	C-N-CA	7.88	133.53	120.62
3	1	371	ARG	CA-C-N	7.87	133.53	120.62
3	1	371	ARG	C-N-CA	7.87	133.53	120.62
3	U	371	ARG	CA-C-N	7.87	133.53	120.62
3	U	371	ARG	C-N-CA	7.87	133.53	120.62
3	7	156	VAL	CA-C-N	7.86	134.26	121.99
3	7	156	VAL	C-N-CA	7.86	134.26	121.99
3	Y	156	VAL	CA-C-N	7.86	134.25	121.99
3	Y	156	VAL	C-N-CA	7.86	134.25	121.99
3	L	371	ARG	CA-C-N	7.86	133.51	120.62
3	L	371	ARG	C-N-CA	7.86	133.51	120.62
3	F	156	VAL	CA-C-N	7.86	134.25	121.99
3	F	156	VAL	C-N-CA	7.86	134.25	121.99
3	1	523	ARG	NE-CZ-NH2	7.86	126.27	119.20
3	4	371	ARG	CA-C-N	7.86	133.50	120.62
3	4	371	ARG	C-N-CA	7.86	133.50	120.62
3	4	201	LYS	CG-CD-CE	7.85	129.36	111.30
3	O	156	VAL	CA-C-N	7.85	134.24	121.99
3	O	156	VAL	C-N-CA	7.85	134.24	121.99
3	V	156	VAL	CA-C-N	7.85	134.24	121.99
3	V	156	VAL	C-N-CA	7.85	134.24	121.99
3	V	523	ARG	NE-CZ-NH2	7.85	126.27	119.20
3	F	371	ARG	CA-C-N	7.85	133.49	120.62
3	F	371	ARG	C-N-CA	7.85	133.49	120.62
3	L	523	ARG	NE-CZ-NH2	7.85	126.27	119.20
2	Q	141	PRO	N-CA-C	-7.85	98.94	111.03
3	U	156	VAL	CA-C-N	7.85	134.24	121.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	156	VAL	C-N-CA	7.85	134.24	121.99
3	C	156	VAL	CA-C-N	7.84	134.22	121.99
3	C	156	VAL	C-N-CA	7.84	134.22	121.99
2	T	141	PRO	N-CA-C	-7.84	98.95	111.03
3	I	201	LYS	CG-CD-CE	7.84	129.34	111.30
2	K	141	PRO	N-CA-C	-7.84	98.95	111.03
3	1	201	LYS	CG-CD-CE	7.84	129.33	111.30
3	C	201	LYS	CG-CD-CE	7.84	129.32	111.30
3	R	201	LYS	CG-CD-CE	7.84	129.32	111.30
3	L	201	LYS	CG-CD-CE	7.83	129.32	111.30
3	O	201	LYS	CG-CD-CE	7.83	129.31	111.30
3	V	201	LYS	CG-CD-CE	7.83	129.32	111.30
3	Y	201	LYS	CG-CD-CE	7.83	129.32	111.30
3	1	156	VAL	CA-C-N	7.83	134.21	121.99
3	1	156	VAL	C-N-CA	7.83	134.21	121.99
2	6	141	PRO	N-CA-C	-7.83	98.97	111.03
2	E	141	PRO	N-CA-C	-7.83	98.97	111.03
3	O	371	ARG	CA-C-N	7.83	133.46	120.62
3	O	371	ARG	C-N-CA	7.83	133.46	120.62
3	U	201	LYS	CG-CD-CE	7.83	129.30	111.30
3	R	523	ARG	NE-CZ-NH2	7.83	126.25	119.20
3	7	201	LYS	CG-CD-CE	7.83	129.30	111.30
3	1	91	ILE	CA-C-N	7.82	135.50	121.89
3	1	91	ILE	C-N-CA	7.82	135.50	121.89
2	B	141	PRO	N-CA-C	-7.82	98.98	111.03
3	L	156	VAL	CA-C-N	7.82	134.19	121.99
3	L	156	VAL	C-N-CA	7.82	134.19	121.99
3	R	156	VAL	CA-C-N	7.82	134.19	121.99
3	R	156	VAL	C-N-CA	7.82	134.19	121.99
3	Y	523	ARG	NE-CZ-NH2	7.82	126.24	119.20
2	0	141	PRO	N-CA-C	-7.82	98.98	111.03
3	F	523	ARG	NE-CZ-NH2	7.82	126.24	119.20
3	F	201	LYS	CG-CD-CE	7.82	129.28	111.30
2	3	141	PRO	N-CA-C	-7.82	98.99	111.03
3	7	461	ALA	N-CA-C	7.82	121.11	108.76
3	C	523	ARG	NE-CZ-NH2	7.82	126.23	119.20
2	H	141	PRO	N-CA-C	-7.82	98.99	111.03
3	I	523	ARG	NE-CZ-NH2	7.82	126.23	119.20
2	N	141	PRO	N-CA-C	-7.82	98.99	111.03
3	I	156	VAL	CA-C-N	7.81	134.18	121.99
3	I	156	VAL	C-N-CA	7.81	134.18	121.99
3	O	454	LYS	CA-C-N	7.81	134.36	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	454	LYS	C-N-CA	7.81	134.36	120.77
2	X	141	PRO	N-CA-C	-7.81	99.00	111.03
3	U	454	LYS	CA-C-N	7.81	134.36	120.77
3	U	454	LYS	C-N-CA	7.81	134.36	120.77
2	9	141	PRO	N-CA-C	-7.81	99.01	111.03
3	Y	91	ILE	CA-C-N	7.80	135.47	121.89
3	Y	91	ILE	C-N-CA	7.80	135.47	121.89
3	4	156	VAL	CA-C-N	7.80	134.16	121.99
3	4	156	VAL	C-N-CA	7.80	134.16	121.99
3	7	454	LYS	CA-C-N	7.80	134.34	120.77
3	7	454	LYS	C-N-CA	7.80	134.34	120.77
3	I	91	ILE	CA-C-N	7.80	135.46	121.89
3	I	91	ILE	C-N-CA	7.80	135.46	121.89
3	R	454	LYS	CA-C-N	7.80	134.34	120.77
3	R	454	LYS	C-N-CA	7.80	134.34	120.77
3	7	523	ARG	NE-CZ-NH2	7.80	126.22	119.20
3	C	454	LYS	CA-C-N	7.80	134.34	120.77
3	C	454	LYS	C-N-CA	7.80	134.34	120.77
3	7	91	ILE	CA-C-N	7.80	135.46	121.89
3	7	91	ILE	C-N-CA	7.80	135.46	121.89
3	F	454	LYS	CA-C-N	7.79	134.33	120.77
3	F	454	LYS	C-N-CA	7.79	134.33	120.77
3	R	91	ILE	CA-C-N	7.79	135.45	121.89
3	R	91	ILE	C-N-CA	7.79	135.45	121.89
3	4	91	ILE	CA-C-N	7.79	135.44	121.89
3	4	91	ILE	C-N-CA	7.79	135.44	121.89
3	C	91	ILE	CA-C-N	7.79	135.44	121.89
3	C	91	ILE	C-N-CA	7.79	135.44	121.89
3	V	461	ALA	N-CA-C	7.79	121.06	108.76
3	Y	454	LYS	CA-C-N	7.79	134.32	120.77
3	Y	454	LYS	C-N-CA	7.79	134.32	120.77
3	F	461	ALA	N-CA-C	7.79	121.06	108.76
3	V	454	LYS	CA-C-N	7.79	134.32	120.77
3	V	454	LYS	C-N-CA	7.79	134.32	120.77
3	L	461	ALA	N-CA-C	7.79	121.06	108.76
3	O	461	ALA	N-CA-C	7.79	121.06	108.76
3	O	523	ARG	NE-CZ-NH2	7.78	126.20	119.20
3	C	461	ALA	N-CA-C	7.78	121.06	108.76
3	I	454	LYS	CA-C-N	7.78	134.31	120.77
3	I	454	LYS	C-N-CA	7.78	134.31	120.77
3	O	91	ILE	CA-C-N	7.78	135.43	121.89
3	O	91	ILE	C-N-CA	7.78	135.43	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	454	LYS	CA-C-N	7.78	134.31	120.77
3	1	454	LYS	C-N-CA	7.78	134.31	120.77
3	L	454	LYS	CA-C-N	7.78	134.30	120.77
3	L	454	LYS	C-N-CA	7.78	134.30	120.77
3	4	454	LYS	CA-C-N	7.78	134.30	120.77
3	4	454	LYS	C-N-CA	7.78	134.30	120.77
3	I	461	ALA	N-CA-C	7.77	121.04	108.76
3	R	461	ALA	N-CA-C	7.77	121.04	108.76
3	F	91	ILE	CA-C-N	7.77	135.41	121.89
3	F	91	ILE	C-N-CA	7.77	135.41	121.89
3	U	461	ALA	N-CA-C	7.77	121.03	108.76
3	4	461	ALA	N-CA-C	7.77	121.03	108.76
3	L	91	ILE	CA-C-N	7.76	135.40	121.89
3	L	91	ILE	C-N-CA	7.76	135.40	121.89
3	U	91	ILE	CA-C-N	7.76	135.40	121.89
3	U	91	ILE	C-N-CA	7.76	135.40	121.89
3	4	523	ARG	NE-CZ-NH2	7.76	126.19	119.20
3	1	461	ALA	N-CA-C	7.76	121.02	108.76
3	V	91	ILE	CA-C-N	7.76	135.39	121.89
3	V	91	ILE	C-N-CA	7.76	135.39	121.89
3	R	269	GLU	CA-C-N	7.68	136.47	121.41
3	R	269	GLU	C-N-CA	7.68	136.47	121.41
3	U	269	GLU	CA-C-N	7.68	136.46	121.41
3	U	269	GLU	C-N-CA	7.68	136.46	121.41
3	1	269	GLU	CA-C-N	7.67	136.44	121.41
3	1	269	GLU	C-N-CA	7.67	136.44	121.41
3	7	269	GLU	CA-C-N	7.67	136.44	121.41
3	7	269	GLU	C-N-CA	7.67	136.44	121.41
3	F	269	GLU	CA-C-N	7.66	136.43	121.41
3	F	269	GLU	C-N-CA	7.66	136.43	121.41
3	L	269	GLU	CA-C-N	7.66	136.43	121.41
3	L	269	GLU	C-N-CA	7.66	136.43	121.41
3	4	269	GLU	CA-C-N	7.66	136.42	121.41
3	4	269	GLU	C-N-CA	7.66	136.42	121.41
3	C	269	GLU	CA-C-N	7.65	136.41	121.41
3	C	269	GLU	C-N-CA	7.65	136.41	121.41
3	V	269	GLU	CA-C-N	7.65	136.41	121.41
3	V	269	GLU	C-N-CA	7.65	136.41	121.41
3	4	250	VAL	CA-C-N	7.65	134.69	123.13
3	4	250	VAL	C-N-CA	7.65	134.69	123.13
3	R	250	VAL	CA-C-N	7.65	134.68	123.13
3	R	250	VAL	C-N-CA	7.65	134.68	123.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	269	GLU	CA-C-N	7.65	136.40	121.41
3	I	269	GLU	C-N-CA	7.65	136.40	121.41
3	O	269	GLU	CA-C-N	7.65	136.40	121.41
3	O	269	GLU	C-N-CA	7.65	136.40	121.41
3	L	250	VAL	CA-C-N	7.63	134.66	123.13
3	L	250	VAL	C-N-CA	7.63	134.66	123.13
3	Y	250	VAL	CA-C-N	7.63	134.65	123.13
3	Y	250	VAL	C-N-CA	7.63	134.65	123.13
3	Y	269	GLU	CA-C-N	7.63	136.36	121.41
3	Y	269	GLU	C-N-CA	7.63	136.36	121.41
3	F	250	VAL	CA-C-N	7.63	134.65	123.13
3	F	250	VAL	C-N-CA	7.63	134.65	123.13
3	O	250	VAL	CA-C-N	7.63	134.65	123.13
3	O	250	VAL	C-N-CA	7.63	134.65	123.13
3	C	250	VAL	CA-C-N	7.63	134.65	123.13
3	C	250	VAL	C-N-CA	7.63	134.65	123.13
3	7	250	VAL	CA-C-N	7.63	134.65	123.13
3	7	250	VAL	C-N-CA	7.63	134.65	123.13
3	V	250	VAL	CA-C-N	7.62	134.64	123.13
3	V	250	VAL	C-N-CA	7.62	134.64	123.13
3	1	250	VAL	CA-C-N	7.62	134.63	123.13
3	1	250	VAL	C-N-CA	7.62	134.63	123.13
3	U	250	VAL	CA-C-N	7.62	134.63	123.13
3	U	250	VAL	C-N-CA	7.62	134.63	123.13
3	I	250	VAL	CA-C-N	7.60	134.61	123.13
3	I	250	VAL	C-N-CA	7.60	134.61	123.13
3	O	571	PHE	CA-C-N	7.50	135.20	121.70
3	O	571	PHE	C-N-CA	7.50	135.20	121.70
3	U	571	PHE	CA-C-N	7.49	135.19	121.70
3	U	571	PHE	C-N-CA	7.49	135.19	121.70
3	I	45	TYR	N-CA-CB	7.49	122.52	110.16
3	4	571	PHE	CA-C-N	7.49	135.18	121.70
3	4	571	PHE	C-N-CA	7.49	135.18	121.70
3	1	571	PHE	CA-C-N	7.49	135.18	121.70
3	1	571	PHE	C-N-CA	7.49	135.18	121.70
3	C	571	PHE	CA-C-N	7.48	135.17	121.70
3	C	571	PHE	C-N-CA	7.48	135.17	121.70
3	I	571	PHE	CA-C-N	7.48	135.16	121.70
3	I	571	PHE	C-N-CA	7.48	135.16	121.70
3	F	571	PHE	CA-C-N	7.47	135.15	121.70
3	F	571	PHE	C-N-CA	7.47	135.15	121.70
3	L	571	PHE	CA-C-N	7.47	135.15	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	571	PHE	C-N-CA	7.47	135.15	121.70
3	R	571	PHE	CA-C-N	7.47	135.14	121.70
3	R	571	PHE	C-N-CA	7.47	135.14	121.70
3	U	45	TYR	N-CA-CB	7.47	122.48	110.16
3	7	571	PHE	CA-C-N	7.46	135.13	121.70
3	7	571	PHE	C-N-CA	7.46	135.13	121.70
3	Y	571	PHE	CA-C-N	7.46	135.12	121.70
3	Y	571	PHE	C-N-CA	7.46	135.12	121.70
3	C	45	TYR	N-CA-CB	7.45	122.45	110.16
3	L	45	TYR	N-CA-CB	7.45	122.45	110.16
3	V	571	PHE	CA-C-N	7.45	135.10	121.70
3	V	571	PHE	C-N-CA	7.45	135.10	121.70
3	O	45	TYR	N-CA-CB	7.44	122.44	110.16
3	7	45	TYR	N-CA-CB	7.44	122.44	110.16
3	4	45	TYR	N-CA-CB	7.44	122.44	110.16
3	R	45	TYR	N-CA-CB	7.44	122.43	110.16
3	1	45	TYR	N-CA-CB	7.43	122.42	110.16
3	F	45	TYR	N-CA-CB	7.43	122.42	110.16
2	6	158	ARG	NE-CZ-NH1	-7.43	114.07	121.50
3	Y	45	TYR	N-CA-CB	7.43	122.41	110.16
3	V	45	TYR	N-CA-CB	7.42	122.40	110.16
2	N	158	ARG	NE-CZ-NH1	-7.42	114.08	121.50
2	T	158	ARG	NE-CZ-NH1	-7.42	114.08	121.50
2	E	158	ARG	NE-CZ-NH1	-7.39	114.11	121.50
2	X	158	ARG	NE-CZ-NH1	-7.39	114.11	121.50
2	H	158	ARG	NE-CZ-NH1	-7.38	114.11	121.50
2	3	158	ARG	NE-CZ-NH1	-7.38	114.12	121.50
2	B	158	ARG	NE-CZ-NH1	-7.38	114.12	121.50
2	Q	158	ARG	NE-CZ-NH1	-7.38	114.12	121.50
2	0	158	ARG	NE-CZ-NH1	-7.36	114.14	121.50
2	K	158	ARG	NE-CZ-NH1	-7.35	114.15	121.50
2	9	158	ARG	NE-CZ-NH1	-7.35	114.15	121.50
3	F	83	GLY	CA-C-N	7.33	135.16	121.97
3	F	83	GLY	C-N-CA	7.33	135.16	121.97
3	1	83	GLY	CA-C-N	7.32	135.15	121.97
3	1	83	GLY	C-N-CA	7.32	135.15	121.97
3	7	83	GLY	CA-C-N	7.32	135.15	121.97
3	7	83	GLY	C-N-CA	7.32	135.15	121.97
3	V	83	GLY	CA-C-N	7.32	135.14	121.97
3	V	83	GLY	C-N-CA	7.32	135.14	121.97
3	O	83	GLY	CA-C-N	7.32	135.14	121.97
3	O	83	GLY	C-N-CA	7.32	135.14	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	83	GLY	CA-C-N	7.31	135.13	121.97
3	L	83	GLY	C-N-CA	7.31	135.13	121.97
3	R	83	GLY	CA-C-N	7.30	135.12	121.97
3	R	83	GLY	C-N-CA	7.30	135.12	121.97
3	C	83	GLY	CA-C-N	7.30	135.11	121.97
3	C	83	GLY	C-N-CA	7.30	135.11	121.97
3	Y	83	GLY	CA-C-N	7.30	135.11	121.97
3	Y	83	GLY	C-N-CA	7.30	135.11	121.97
3	U	83	GLY	CA-C-N	7.30	135.11	121.97
3	U	83	GLY	C-N-CA	7.30	135.11	121.97
3	I	83	GLY	CA-C-N	7.29	135.10	121.97
3	I	83	GLY	C-N-CA	7.29	135.10	121.97
2	N	158	ARG	NE-CZ-NH2	7.28	125.75	119.20
3	4	83	GLY	CA-C-N	7.28	135.07	121.97
3	4	83	GLY	C-N-CA	7.28	135.07	121.97
3	U	368	ALA	CA-C-N	7.28	138.28	126.86
3	U	368	ALA	C-N-CA	7.28	138.28	126.86
3	Y	368	ALA	CA-C-N	7.28	138.28	126.86
3	Y	368	ALA	C-N-CA	7.28	138.28	126.86
3	I	368	ALA	CA-C-N	7.26	138.26	126.86
3	I	368	ALA	C-N-CA	7.26	138.26	126.86
3	7	368	ALA	CA-C-N	7.26	138.26	126.86
3	7	368	ALA	C-N-CA	7.26	138.26	126.86
2	T	158	ARG	NE-CZ-NH2	7.26	125.73	119.20
2	0	158	ARG	NE-CZ-NH2	7.26	125.73	119.20
3	7	144	SER	CA-CB-OG	7.26	125.62	111.10
3	F	368	ALA	CA-C-N	7.25	138.25	126.86
3	F	368	ALA	C-N-CA	7.25	138.25	126.86
2	X	158	ARG	NE-CZ-NH2	7.25	125.73	119.20
3	C	368	ALA	CA-C-N	7.25	138.25	126.86
3	C	368	ALA	C-N-CA	7.25	138.25	126.86
3	1	368	ALA	CA-C-N	7.25	138.25	126.86
3	1	368	ALA	C-N-CA	7.25	138.25	126.86
2	6	158	ARG	NE-CZ-NH2	7.25	125.73	119.20
2	9	158	ARG	NE-CZ-NH2	7.25	125.73	119.20
2	Q	158	ARG	NE-CZ-NH2	7.25	125.73	119.20
2	H	158	ARG	NE-CZ-NH2	7.25	125.72	119.20
3	4	368	ALA	CA-C-N	7.25	138.24	126.86
3	4	368	ALA	C-N-CA	7.25	138.24	126.86
2	B	158	ARG	NE-CZ-NH2	7.25	125.72	119.20
3	F	144	SER	CA-CB-OG	7.25	125.59	111.10
2	K	158	ARG	NE-CZ-NH2	7.25	125.72	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	144	SER	CA-CB-OG	7.25	125.59	111.10
3	O	368	ALA	CA-C-N	7.25	138.24	126.86
3	O	368	ALA	C-N-CA	7.25	138.24	126.86
3	4	144	SER	CA-CB-OG	7.25	125.59	111.10
3	U	144	SER	CA-CB-OG	7.25	125.59	111.10
3	L	368	ALA	CA-C-N	7.24	138.23	126.86
3	L	368	ALA	C-N-CA	7.24	138.23	126.86
3	Y	144	SER	CA-CB-OG	7.24	125.58	111.10
3	I	144	SER	CA-CB-OG	7.24	125.58	111.10
3	V	144	SER	CA-CB-OG	7.24	125.58	111.10
3	1	144	SER	CA-CB-OG	7.24	125.58	111.10
3	R	368	ALA	CA-C-N	7.24	138.22	126.86
3	R	368	ALA	C-N-CA	7.24	138.22	126.86
3	O	144	SER	CA-CB-OG	7.24	125.57	111.10
3	C	144	SER	CA-CB-OG	7.23	125.56	111.10
3	V	368	ALA	CA-C-N	7.23	138.21	126.86
3	V	368	ALA	C-N-CA	7.23	138.21	126.86
2	E	158	ARG	NE-CZ-NH2	7.22	125.70	119.20
3	L	144	SER	CA-CB-OG	7.22	125.55	111.10
2	3	158	ARG	NE-CZ-NH2	7.22	125.70	119.20
3	Y	95	LYS	CA-CB-CG	7.22	128.54	114.10
3	I	108	MET	CG-SD-CE	-7.21	85.03	100.90
3	1	108	MET	CG-SD-CE	-7.21	85.03	100.90
3	V	108	MET	CG-SD-CE	-7.21	85.04	100.90
3	7	95	LYS	CA-CB-CG	7.21	128.51	114.10
3	I	95	LYS	CA-CB-CG	7.20	128.50	114.10
3	1	95	LYS	CA-CB-CG	7.20	128.50	114.10
3	4	95	LYS	CA-CB-CG	7.20	128.50	114.10
3	L	108	MET	CG-SD-CE	-7.20	85.07	100.90
3	O	108	MET	CG-SD-CE	-7.20	85.07	100.90
3	7	108	MET	CG-SD-CE	-7.20	85.07	100.90
3	U	95	LYS	CA-CB-CG	7.20	128.49	114.10
3	Y	108	MET	CG-SD-CE	-7.19	85.07	100.90
3	C	95	LYS	CA-CB-CG	7.19	128.49	114.10
3	C	108	MET	CG-SD-CE	-7.19	85.08	100.90
3	O	95	LYS	CA-CB-CG	7.19	128.49	114.10
3	U	108	MET	CG-SD-CE	-7.19	85.08	100.90
3	F	95	LYS	CA-CB-CG	7.19	128.48	114.10
3	R	95	LYS	CA-CB-CG	7.19	128.48	114.10
3	4	108	MET	CG-SD-CE	-7.19	85.08	100.90
3	V	95	LYS	CA-CB-CG	7.19	128.47	114.10
3	L	95	LYS	CA-CB-CG	7.18	128.46	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	108	MET	CG-SD-CE	-7.18	85.10	100.90
3	R	108	MET	CG-SD-CE	-7.18	85.11	100.90
3	1	211	LEU	CA-C-N	7.18	135.25	121.54
3	1	211	LEU	C-N-CA	7.18	135.25	121.54
3	U	211	LEU	CA-C-N	7.18	135.25	121.54
3	U	211	LEU	C-N-CA	7.18	135.25	121.54
3	V	211	LEU	CA-C-N	7.17	135.24	121.54
3	V	211	LEU	C-N-CA	7.17	135.24	121.54
3	O	270	GLY	CA-C-N	7.17	131.68	121.42
3	O	270	GLY	C-N-CA	7.17	131.68	121.42
3	Y	211	LEU	CA-C-N	7.17	135.24	121.54
3	Y	211	LEU	C-N-CA	7.17	135.24	121.54
3	4	211	LEU	CA-C-N	7.17	135.23	121.54
3	4	211	LEU	C-N-CA	7.17	135.23	121.54
3	4	270	GLY	CA-C-N	7.17	131.67	121.42
3	4	270	GLY	C-N-CA	7.17	131.67	121.42
3	F	270	GLY	CA-C-N	7.16	131.66	121.42
3	F	270	GLY	C-N-CA	7.16	131.66	121.42
3	R	211	LEU	CA-C-N	7.16	135.22	121.54
3	R	211	LEU	C-N-CA	7.16	135.22	121.54
3	Y	270	GLY	CA-C-N	7.16	131.66	121.42
3	Y	270	GLY	C-N-CA	7.16	131.66	121.42
3	7	270	GLY	CA-C-N	7.16	131.66	121.42
3	7	270	GLY	C-N-CA	7.16	131.66	121.42
3	F	211	LEU	CA-C-N	7.15	135.20	121.54
3	F	211	LEU	C-N-CA	7.15	135.20	121.54
3	7	211	LEU	CA-C-N	7.15	135.20	121.54
3	7	211	LEU	C-N-CA	7.15	135.20	121.54
3	C	270	GLY	CA-C-N	7.15	131.65	121.42
3	C	270	GLY	C-N-CA	7.15	131.65	121.42
3	L	211	LEU	CA-C-N	7.15	135.20	121.54
3	L	211	LEU	C-N-CA	7.15	135.20	121.54
3	L	270	GLY	CA-C-N	7.15	131.64	121.42
3	L	270	GLY	C-N-CA	7.15	131.64	121.42
3	I	270	GLY	CA-C-N	7.15	131.64	121.42
3	I	270	GLY	C-N-CA	7.15	131.64	121.42
3	I	211	LEU	CA-C-N	7.14	135.18	121.54
3	I	211	LEU	C-N-CA	7.14	135.18	121.54
3	O	211	LEU	CA-C-N	7.14	135.19	121.54
3	O	211	LEU	C-N-CA	7.14	135.19	121.54
3	1	270	GLY	CA-C-N	7.14	131.64	121.42
3	1	270	GLY	C-N-CA	7.14	131.64	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	270	GLY	CA-C-N	7.14	131.63	121.42
3	U	270	GLY	C-N-CA	7.14	131.63	121.42
3	U	143	ILE	CA-C-N	7.13	132.11	122.56
3	U	143	ILE	C-N-CA	7.13	132.11	122.56
3	R	270	GLY	CA-C-N	7.12	131.60	121.42
3	R	270	GLY	C-N-CA	7.12	131.60	121.42
3	U	440	TRP	CA-CB-CG	7.12	127.13	113.60
2	H	50	ASN	CA-C-N	7.12	130.78	120.38
2	H	50	ASN	C-N-CA	7.12	130.78	120.38
3	7	404	ARG	CB-CG-CD	7.12	127.67	111.30
3	U	404	ARG	CB-CG-CD	7.12	127.67	111.30
3	1	404	ARG	CB-CG-CD	7.11	127.66	111.30
3	V	270	GLY	CA-C-N	7.11	131.59	121.42
3	V	270	GLY	C-N-CA	7.11	131.59	121.42
3	Y	404	ARG	CB-CG-CD	7.11	127.66	111.30
2	0	50	ASN	CA-C-N	7.11	130.76	120.38
2	0	50	ASN	C-N-CA	7.11	130.76	120.38
3	V	404	ARG	CB-CG-CD	7.11	127.64	111.30
3	C	404	ARG	CB-CG-CD	7.10	127.64	111.30
3	I	404	ARG	CB-CG-CD	7.10	127.64	111.30
3	Y	143	ILE	CA-C-N	7.10	132.08	122.56
3	Y	143	ILE	C-N-CA	7.10	132.08	122.56
3	L	404	ARG	CB-CG-CD	7.10	127.63	111.30
3	1	440	TRP	CA-CB-CG	7.10	127.08	113.60
3	C	440	TRP	CA-CB-CG	7.09	127.08	113.60
3	F	404	ARG	CB-CG-CD	7.09	127.61	111.30
3	R	404	ARG	CB-CG-CD	7.09	127.62	111.30
3	R	440	TRP	CA-CB-CG	7.09	127.08	113.60
3	O	440	TRP	CA-CB-CG	7.09	127.08	113.60
3	4	404	ARG	CB-CG-CD	7.09	127.61	111.30
3	7	440	TRP	CA-CB-CG	7.09	127.07	113.60
3	V	440	TRP	CA-CB-CG	7.09	127.07	113.60
3	1	143	ILE	CA-C-N	7.08	132.05	122.56
3	1	143	ILE	C-N-CA	7.08	132.05	122.56
2	6	50	ASN	CA-C-N	7.08	130.72	120.38
2	6	50	ASN	C-N-CA	7.08	130.72	120.38
3	F	440	TRP	CA-CB-CG	7.08	127.06	113.60
3	L	440	TRP	CA-CB-CG	7.08	127.06	113.60
3	Y	440	TRP	CA-CB-CG	7.08	127.05	113.60
3	4	143	ILE	CA-C-N	7.08	132.05	122.56
3	4	143	ILE	C-N-CA	7.08	132.05	122.56
3	4	440	TRP	CA-CB-CG	7.08	127.06	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	404	ARG	CB-CG-CD	7.08	127.58	111.30
2	T	50	ASN	CA-C-N	7.08	130.72	120.38
2	T	50	ASN	C-N-CA	7.08	130.72	120.38
2	B	50	ASN	CA-C-N	7.08	130.72	120.38
2	B	50	ASN	C-N-CA	7.08	130.72	120.38
3	I	143	ILE	CA-C-N	7.08	132.05	122.56
3	I	143	ILE	C-N-CA	7.08	132.05	122.56
3	F	143	ILE	CA-C-N	7.08	132.04	122.56
3	F	143	ILE	C-N-CA	7.08	132.04	122.56
3	C	143	ILE	CA-C-N	7.08	132.04	122.56
3	C	143	ILE	C-N-CA	7.08	132.04	122.56
2	3	50	ASN	CA-C-N	7.07	130.71	120.38
2	3	50	ASN	C-N-CA	7.07	130.71	120.38
3	I	440	TRP	CA-CB-CG	7.07	127.04	113.60
2	Q	50	ASN	CA-C-N	7.07	130.70	120.38
2	Q	50	ASN	C-N-CA	7.07	130.70	120.38
3	R	143	ILE	CA-C-N	7.07	132.03	122.56
3	R	143	ILE	C-N-CA	7.07	132.03	122.56
2	K	50	ASN	CA-C-N	7.07	130.70	120.38
2	K	50	ASN	C-N-CA	7.07	130.70	120.38
2	9	50	ASN	CA-C-N	7.06	130.69	120.38
2	9	50	ASN	C-N-CA	7.06	130.69	120.38
3	O	143	ILE	CA-C-N	7.06	132.02	122.56
3	O	143	ILE	C-N-CA	7.06	132.02	122.56
3	V	143	ILE	CA-C-N	7.06	132.02	122.56
3	V	143	ILE	C-N-CA	7.06	132.02	122.56
2	X	50	ASN	CA-C-N	7.06	130.69	120.38
2	X	50	ASN	C-N-CA	7.06	130.69	120.38
2	E	50	ASN	CA-C-N	7.06	130.68	120.38
2	E	50	ASN	C-N-CA	7.06	130.68	120.38
2	N	50	ASN	CA-C-N	7.06	130.68	120.38
2	N	50	ASN	C-N-CA	7.06	130.68	120.38
3	L	143	ILE	CA-C-N	7.05	132.01	122.56
3	L	143	ILE	C-N-CA	7.05	132.01	122.56
3	V	190	GLU	CA-CB-CG	7.05	128.20	114.10
3	7	143	ILE	CA-C-N	7.05	132.00	122.56
3	7	143	ILE	C-N-CA	7.05	132.00	122.56
3	L	367	GLN	CA-C-N	7.04	133.03	122.67
3	L	367	GLN	C-N-CA	7.04	133.03	122.67
3	4	190	GLU	CA-CB-CG	7.04	128.17	114.10
3	R	190	GLU	CA-CB-CG	7.04	128.17	114.10
3	O	190	GLU	CA-CB-CG	7.03	128.17	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	190	GLU	CA-CB-CG	7.03	128.16	114.10
3	F	367	GLN	CA-C-N	7.03	133.00	122.67
3	F	367	GLN	C-N-CA	7.03	133.00	122.67
3	1	367	GLN	CA-C-N	7.03	133.00	122.67
3	1	367	GLN	C-N-CA	7.03	133.00	122.67
3	C	190	GLU	CA-CB-CG	7.03	128.15	114.10
3	7	367	GLN	CA-C-N	7.03	133.00	122.67
3	7	367	GLN	C-N-CA	7.03	133.00	122.67
3	R	367	GLN	CA-C-N	7.02	132.99	122.67
3	R	367	GLN	C-N-CA	7.02	132.99	122.67
3	1	190	GLU	CA-CB-CG	7.02	128.14	114.10
3	7	190	GLU	CA-CB-CG	7.02	128.14	114.10
3	I	190	GLU	CA-CB-CG	7.02	128.13	114.10
3	V	367	GLN	CA-C-N	7.02	132.98	122.67
3	V	367	GLN	C-N-CA	7.02	132.98	122.67
3	Y	190	GLU	CA-CB-CG	7.02	128.13	114.10
3	4	367	GLN	CA-C-N	7.02	132.98	122.67
3	4	367	GLN	C-N-CA	7.02	132.98	122.67
3	F	190	GLU	CA-CB-CG	7.01	128.13	114.10
3	C	367	GLN	CA-C-N	7.01	132.98	122.67
3	C	367	GLN	C-N-CA	7.01	132.98	122.67
3	I	367	GLN	CA-C-N	7.01	132.97	122.67
3	I	367	GLN	C-N-CA	7.01	132.97	122.67
3	U	367	GLN	CA-C-N	7.01	132.97	122.67
3	U	367	GLN	C-N-CA	7.01	132.97	122.67
3	F	212	GLU	CB-CG-CD	7.01	124.51	112.60
3	Y	367	GLN	CA-C-N	7.00	132.97	122.67
3	Y	367	GLN	C-N-CA	7.00	132.97	122.67
3	V	212	GLU	CB-CG-CD	7.00	124.50	112.60
3	1	568	ARG	CA-C-N	7.00	134.03	121.92
3	1	568	ARG	C-N-CA	7.00	134.03	121.92
3	U	190	GLU	CA-CB-CG	7.00	128.10	114.10
3	F	76	THR	CA-C-N	7.00	131.25	122.43
3	F	76	THR	C-N-CA	7.00	131.25	122.43
3	I	568	ARG	CA-C-N	7.00	134.02	121.92
3	I	568	ARG	C-N-CA	7.00	134.02	121.92
3	O	367	GLN	CA-C-N	6.99	132.95	122.67
3	O	367	GLN	C-N-CA	6.99	132.95	122.67
3	O	568	ARG	CA-C-N	6.99	134.02	121.92
3	O	568	ARG	C-N-CA	6.99	134.02	121.92
3	U	145	PRO	CA-C-N	6.99	132.40	120.72
3	U	145	PRO	C-N-CA	6.99	132.40	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	145	PRO	CA-C-N	6.99	132.40	120.72
3	1	145	PRO	C-N-CA	6.99	132.40	120.72
3	L	145	PRO	CA-C-N	6.99	132.40	120.72
3	L	145	PRO	C-N-CA	6.99	132.40	120.72
3	R	212	GLU	CB-CG-CD	6.99	124.48	112.60
3	7	76	THR	CA-C-N	6.99	131.24	122.43
3	7	76	THR	C-N-CA	6.99	131.24	122.43
3	R	76	THR	CA-C-N	6.99	131.24	122.43
3	R	76	THR	C-N-CA	6.99	131.24	122.43
3	U	568	ARG	CA-C-N	6.99	134.01	121.92
3	U	568	ARG	C-N-CA	6.99	134.01	121.92
3	I	212	GLU	CB-CG-CD	6.98	124.47	112.60
3	4	451	MET	N-CA-C	6.98	119.79	108.76
3	7	212	GLU	CB-CG-CD	6.98	124.47	112.60
3	Y	212	GLU	CB-CG-CD	6.98	124.47	112.60
3	7	568	ARG	CA-C-N	6.98	134.00	121.92
3	7	568	ARG	C-N-CA	6.98	134.00	121.92
3	O	145	PRO	CA-C-N	6.98	132.38	120.72
3	O	145	PRO	C-N-CA	6.98	132.38	120.72
3	F	145	PRO	CA-C-N	6.98	132.37	120.72
3	F	145	PRO	C-N-CA	6.98	132.37	120.72
3	L	76	THR	CA-C-N	6.98	131.22	122.43
3	L	76	THR	C-N-CA	6.98	131.22	122.43
3	O	212	GLU	CB-CG-CD	6.98	124.46	112.60
3	7	145	PRO	CA-C-N	6.98	132.37	120.72
3	7	145	PRO	C-N-CA	6.98	132.37	120.72
3	C	76	THR	CA-C-N	6.98	131.22	122.43
3	C	76	THR	C-N-CA	6.98	131.22	122.43
3	Y	76	THR	CA-C-N	6.98	131.22	122.43
3	Y	76	THR	C-N-CA	6.98	131.22	122.43
3	1	212	GLU	CB-CG-CD	6.98	124.46	112.60
3	4	145	PRO	CA-C-N	6.98	132.37	120.72
3	4	145	PRO	C-N-CA	6.98	132.37	120.72
3	U	212	GLU	CB-CG-CD	6.98	124.46	112.60
3	V	145	PRO	CA-C-N	6.97	132.37	120.72
3	V	145	PRO	C-N-CA	6.97	132.37	120.72
3	4	212	GLU	CB-CG-CD	6.97	124.45	112.60
3	7	451	MET	N-CA-C	6.97	119.78	108.76
3	C	145	PRO	CA-C-N	6.97	132.36	120.72
3	C	145	PRO	C-N-CA	6.97	132.36	120.72
3	C	568	ARG	CA-C-N	6.97	133.98	121.92
3	C	568	ARG	C-N-CA	6.97	133.98	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Y	145	PRO	CA-C-N	6.97	132.36	120.72
3	Y	145	PRO	C-N-CA	6.97	132.36	120.72
3	R	145	PRO	CA-C-N	6.97	132.36	120.72
3	R	145	PRO	C-N-CA	6.97	132.36	120.72
3	I	76	THR	CA-C-N	6.97	131.21	122.43
3	I	76	THR	C-N-CA	6.97	131.21	122.43
3	I	145	PRO	CA-C-N	6.97	132.35	120.72
3	I	145	PRO	C-N-CA	6.97	132.35	120.72
3	O	451	MET	N-CA-C	6.97	119.77	108.76
3	O	76	THR	CA-C-N	6.96	131.21	122.43
3	O	76	THR	C-N-CA	6.96	131.21	122.43
3	R	451	MET	N-CA-C	6.96	119.77	108.76
3	4	568	ARG	CA-C-N	6.96	133.97	121.92
3	4	568	ARG	C-N-CA	6.96	133.97	121.92
3	V	76	THR	CA-C-N	6.96	131.20	122.43
3	V	76	THR	C-N-CA	6.96	131.20	122.43
3	L	451	MET	N-CA-C	6.96	119.76	108.76
3	V	451	MET	N-CA-C	6.96	119.76	108.76
3	Y	568	ARG	CA-C-N	6.96	133.96	121.92
3	Y	568	ARG	C-N-CA	6.96	133.96	121.92
3	C	451	MET	N-CA-C	6.96	119.76	108.76
3	L	568	ARG	CA-C-N	6.96	133.96	121.92
3	L	568	ARG	C-N-CA	6.96	133.96	121.92
3	V	568	ARG	CA-C-N	6.96	133.96	121.92
3	V	568	ARG	C-N-CA	6.96	133.96	121.92
3	1	76	THR	CA-C-N	6.96	131.20	122.43
3	1	76	THR	C-N-CA	6.96	131.20	122.43
3	4	76	THR	CA-C-N	6.96	131.20	122.43
3	4	76	THR	C-N-CA	6.96	131.20	122.43
3	1	451	MET	N-CA-C	6.96	119.75	108.76
3	U	76	THR	CA-C-N	6.96	131.19	122.43
3	U	76	THR	C-N-CA	6.96	131.19	122.43
3	F	568	ARG	CA-C-N	6.95	133.95	121.92
3	F	568	ARG	C-N-CA	6.95	133.95	121.92
3	Y	451	MET	N-CA-C	6.95	119.75	108.76
3	I	451	MET	N-CA-C	6.95	119.74	108.76
3	L	212	GLU	CB-CG-CD	6.95	124.41	112.60
3	R	568	ARG	CA-C-N	6.95	133.94	121.92
3	R	568	ARG	C-N-CA	6.95	133.94	121.92
3	U	451	MET	N-CA-C	6.94	119.72	108.76
3	F	451	MET	N-CA-C	6.92	119.70	108.76
3	U	480	PRO	CA-N-CD	-6.91	102.33	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	480	PRO	CA-N-CD	-6.89	102.35	112.00
3	7	480	PRO	CA-N-CD	-6.89	102.35	112.00
3	I	480	PRO	CA-N-CD	-6.89	102.35	112.00
3	O	480	PRO	CA-N-CD	-6.89	102.36	112.00
3	V	480	PRO	CA-N-CD	-6.89	102.36	112.00
3	L	53	ASP	CA-C-N	6.88	135.28	121.93
3	L	53	ASP	C-N-CA	6.88	135.28	121.93
3	R	480	PRO	CA-N-CD	-6.88	102.37	112.00
3	Y	53	ASP	CA-C-N	6.88	135.28	121.93
3	Y	53	ASP	C-N-CA	6.88	135.28	121.93
3	1	480	PRO	CA-N-CD	-6.88	102.37	112.00
3	C	480	PRO	CA-N-CD	-6.88	102.37	112.00
3	F	53	ASP	CA-C-N	6.88	135.28	121.93
3	F	53	ASP	C-N-CA	6.88	135.28	121.93
3	L	480	PRO	CA-N-CD	-6.88	102.37	112.00
3	Y	480	PRO	CA-N-CD	-6.87	102.39	112.00
3	4	480	PRO	CA-N-CD	-6.87	102.38	112.00
3	4	130	ILE	CA-C-N	6.86	132.66	123.05
3	4	130	ILE	C-N-CA	6.86	132.66	123.05
3	F	130	ILE	CA-C-N	6.86	132.66	123.05
3	F	130	ILE	C-N-CA	6.86	132.66	123.05
3	1	53	ASP	CA-C-N	6.86	135.24	121.93
3	1	53	ASP	C-N-CA	6.86	135.24	121.93
3	7	53	ASP	CA-C-N	6.86	135.24	121.93
3	7	53	ASP	C-N-CA	6.86	135.24	121.93
3	V	130	ILE	CA-C-N	6.86	132.65	123.05
3	V	130	ILE	C-N-CA	6.86	132.65	123.05
3	C	53	ASP	CA-C-N	6.85	135.23	121.93
3	C	53	ASP	C-N-CA	6.85	135.23	121.93
3	Y	514	ARG	CB-CG-CD	6.85	127.06	111.30
3	R	514	ARG	CB-CG-CD	6.85	127.06	111.30
3	R	53	ASP	CA-C-N	6.85	135.22	121.93
3	R	53	ASP	C-N-CA	6.85	135.22	121.93
3	F	514	ARG	CB-CG-CD	6.85	127.05	111.30
3	I	514	ARG	CB-CG-CD	6.84	127.04	111.30
3	O	53	ASP	CA-C-N	6.84	135.21	121.93
3	O	53	ASP	C-N-CA	6.84	135.21	121.93
3	U	514	ARG	CB-CG-CD	6.84	127.04	111.30
3	L	514	ARG	CB-CG-CD	6.84	127.03	111.30
3	1	130	ILE	CA-C-N	6.84	132.63	123.05
3	1	130	ILE	C-N-CA	6.84	132.63	123.05
3	C	514	ARG	CB-CG-CD	6.84	127.03	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	V	53	ASP	CA-C-N	6.84	135.20	121.93
3	V	53	ASP	C-N-CA	6.84	135.20	121.93
3	7	514	ARG	CB-CG-CD	6.84	127.03	111.30
3	U	53	ASP	CA-C-N	6.84	135.19	121.93
3	U	53	ASP	C-N-CA	6.84	135.19	121.93
3	I	53	ASP	CA-C-N	6.83	135.18	121.93
3	I	53	ASP	C-N-CA	6.83	135.18	121.93
3	V	514	ARG	CB-CG-CD	6.83	127.01	111.30
3	4	53	ASP	CA-C-N	6.83	135.18	121.93
3	4	53	ASP	C-N-CA	6.83	135.18	121.93
3	4	514	ARG	CB-CG-CD	6.83	127.01	111.30
3	U	130	ILE	CA-C-N	6.83	132.61	123.05
3	U	130	ILE	C-N-CA	6.83	132.61	123.05
3	1	514	ARG	CB-CG-CD	6.82	127.00	111.30
3	C	130	ILE	CA-C-N	6.82	132.60	123.05
3	C	130	ILE	C-N-CA	6.82	132.60	123.05
3	I	130	ILE	CA-C-N	6.82	132.59	123.05
3	I	130	ILE	C-N-CA	6.82	132.59	123.05
3	O	514	ARG	CB-CG-CD	6.82	126.98	111.30
3	L	130	ILE	CA-C-N	6.82	132.59	123.05
3	L	130	ILE	C-N-CA	6.82	132.59	123.05
3	Y	130	ILE	CA-C-N	6.82	132.59	123.05
3	Y	130	ILE	C-N-CA	6.82	132.59	123.05
3	7	130	ILE	CA-C-N	6.82	132.59	123.05
3	7	130	ILE	C-N-CA	6.82	132.59	123.05
3	R	130	ILE	CA-C-N	6.81	132.58	123.05
3	R	130	ILE	C-N-CA	6.81	132.58	123.05
2	X	93	LYS	CA-C-N	6.81	133.28	122.59
2	X	93	LYS	C-N-CA	6.81	133.28	122.59
2	3	93	LYS	CA-C-N	6.81	133.28	122.59
2	3	93	LYS	C-N-CA	6.81	133.28	122.59
2	K	159	GLY	N-CA-C	6.80	125.39	115.32
2	Q	93	LYS	CA-C-N	6.80	133.27	122.59
2	Q	93	LYS	C-N-CA	6.80	133.27	122.59
2	K	93	LYS	CA-C-N	6.80	133.27	122.59
2	K	93	LYS	C-N-CA	6.80	133.27	122.59
3	O	130	ILE	CA-C-N	6.80	132.57	123.05
3	O	130	ILE	C-N-CA	6.80	132.57	123.05
2	N	93	LYS	CA-C-N	6.80	133.27	122.59
2	N	93	LYS	C-N-CA	6.80	133.27	122.59
2	B	93	LYS	CA-C-N	6.80	133.26	122.59
2	B	93	LYS	C-N-CA	6.80	133.26	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	159	GLY	N-CA-C	6.79	125.38	115.32
2	9	93	LYS	CA-C-N	6.79	133.25	122.59
2	9	93	LYS	C-N-CA	6.79	133.25	122.59
2	Q	159	GLY	N-CA-C	6.79	125.37	115.32
2	0	93	LYS	CA-C-N	6.79	133.25	122.59
2	0	93	LYS	C-N-CA	6.79	133.25	122.59
2	3	159	GLY	N-CA-C	6.79	125.37	115.32
2	6	159	GLY	N-CA-C	6.79	125.36	115.32
1	8	6	ARG	CA-CB-CG	6.79	127.67	114.10
2	E	93	LYS	CA-C-N	6.78	133.24	122.59
2	E	93	LYS	C-N-CA	6.78	133.24	122.59
2	N	159	GLY	N-CA-C	6.78	125.36	115.32
1	P	6	ARG	CA-CB-CG	6.78	127.67	114.10
3	1	446	GLY	CA-C-N	6.78	131.14	121.71
3	1	446	GLY	C-N-CA	6.78	131.14	121.71
2	T	159	GLY	N-CA-C	6.78	125.36	115.32
2	B	159	GLY	N-CA-C	6.78	125.35	115.32
2	H	93	LYS	CA-C-N	6.78	133.23	122.59
2	H	93	LYS	C-N-CA	6.78	133.23	122.59
1	Z	6	ARG	CA-CB-CG	6.78	127.66	114.10
3	7	431	VAL	CA-C-N	6.78	134.32	122.05
3	7	431	VAL	C-N-CA	6.78	134.32	122.05
1	D	6	ARG	CA-CB-CG	6.78	127.66	114.10
2	6	93	LYS	CA-C-N	6.78	133.23	122.59
2	6	93	LYS	C-N-CA	6.78	133.23	122.59
2	T	93	LYS	CA-C-N	6.78	133.23	122.59
2	T	93	LYS	C-N-CA	6.78	133.23	122.59
1	J	6	ARG	CA-CB-CG	6.77	127.65	114.10
1	G	6	ARG	CA-CB-CG	6.77	127.64	114.10
3	I	446	GLY	CA-C-N	6.77	131.12	121.71
3	I	446	GLY	C-N-CA	6.77	131.12	121.71
3	R	446	GLY	CA-C-N	6.77	131.12	121.71
3	R	446	GLY	C-N-CA	6.77	131.12	121.71
2	0	159	GLY	N-CA-C	6.77	125.34	115.32
1	S	6	ARG	CA-CB-CG	6.77	127.64	114.10
3	V	446	GLY	CA-C-N	6.77	131.12	121.71
3	V	446	GLY	C-N-CA	6.77	131.12	121.71
1	2	6	ARG	CA-CB-CG	6.77	127.64	114.10
1	A	6	ARG	CA-CB-CG	6.77	127.64	114.10
2	X	159	GLY	N-CA-C	6.77	125.34	115.32
3	C	446	GLY	CA-C-N	6.76	131.11	121.71
3	C	446	GLY	C-N-CA	6.76	131.11	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	6	ARG	CA-CB-CG	6.76	127.62	114.10
1	5	6	ARG	CA-CB-CG	6.76	127.62	114.10
3	C	431	VAL	CA-C-N	6.76	134.28	122.05
3	C	431	VAL	C-N-CA	6.76	134.28	122.05
3	I	431	VAL	CA-C-N	6.76	134.28	122.05
3	I	431	VAL	C-N-CA	6.76	134.28	122.05
1	M	6	ARG	CA-CB-CG	6.76	127.61	114.10
3	1	431	VAL	CA-C-N	6.75	134.28	122.05
3	1	431	VAL	C-N-CA	6.75	134.28	122.05
3	7	446	GLY	CA-C-N	6.75	131.10	121.71
3	7	446	GLY	C-N-CA	6.75	131.10	121.71
3	O	446	GLY	CA-C-N	6.75	131.10	121.71
3	O	446	GLY	C-N-CA	6.75	131.10	121.71
2	9	159	GLY	N-CA-C	6.75	125.32	115.32
3	U	431	VAL	CA-C-N	6.75	134.27	122.05
3	U	431	VAL	C-N-CA	6.75	134.27	122.05
3	R	431	VAL	CA-C-N	6.75	134.27	122.05
3	R	431	VAL	C-N-CA	6.75	134.27	122.05
3	Y	431	VAL	CA-C-N	6.75	134.27	122.05
3	Y	431	VAL	C-N-CA	6.75	134.27	122.05
3	V	431	VAL	CA-C-N	6.75	134.27	122.05
3	V	431	VAL	C-N-CA	6.75	134.27	122.05
3	V	276	PHE	CA-C-O	-6.75	114.04	121.87
3	4	431	VAL	CA-C-N	6.75	134.26	122.05
3	4	431	VAL	C-N-CA	6.75	134.26	122.05
3	L	446	GLY	CA-C-N	6.74	131.08	121.71
3	L	446	GLY	C-N-CA	6.74	131.08	121.71
2	H	159	GLY	N-CA-C	6.74	125.30	115.32
1	2	16[A]	LEU	CA-C-N	6.74	129.99	120.28
1	2	16[A]	LEU	C-N-CA	6.74	129.99	120.28
1	2	16[B]	LEU	CA-C-N	6.74	129.99	120.28
1	2	16[B]	LEU	C-N-CA	6.74	129.99	120.28
3	F	431	VAL	CA-C-N	6.74	134.25	122.05
3	F	431	VAL	C-N-CA	6.74	134.25	122.05
3	I	276	PHE	CA-C-O	-6.74	114.06	121.87
1	Z	16[A]	LEU	CA-C-N	6.74	129.98	120.28
1	Z	16[A]	LEU	C-N-CA	6.74	129.98	120.28
1	Z	16[B]	LEU	CA-C-N	6.74	129.98	120.28
1	Z	16[B]	LEU	C-N-CA	6.74	129.98	120.28
3	4	446	GLY	CA-C-N	6.73	131.07	121.71
3	4	446	GLY	C-N-CA	6.73	131.07	121.71
1	5	16[A]	LEU	CA-C-N	6.73	129.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	16[A]	LEU	C-N-CA	6.73	129.98	120.28
1	5	16[B]	LEU	CA-C-N	6.73	129.98	120.28
1	5	16[B]	LEU	C-N-CA	6.73	129.98	120.28
3	O	431	VAL	CA-C-N	6.73	134.24	122.05
3	O	431	VAL	C-N-CA	6.73	134.24	122.05
1	S	16[A]	LEU	CA-C-N	6.73	129.98	120.28
1	S	16[A]	LEU	C-N-CA	6.73	129.98	120.28
1	S	16[B]	LEU	CA-C-N	6.73	129.98	120.28
1	S	16[B]	LEU	C-N-CA	6.73	129.98	120.28
3	Y	446	GLY	CA-C-N	6.73	131.06	121.71
3	Y	446	GLY	C-N-CA	6.73	131.06	121.71
3	U	446	GLY	CA-C-N	6.73	131.06	121.71
3	U	446	GLY	C-N-CA	6.73	131.06	121.71
3	L	431	VAL	CA-C-N	6.73	134.23	122.05
3	L	431	VAL	C-N-CA	6.73	134.23	122.05
3	Y	276	PHE	CA-C-O	-6.73	114.06	121.87
1	8	16[A]	LEU	CA-C-N	6.73	129.97	120.28
1	8	16[A]	LEU	C-N-CA	6.73	129.97	120.28
1	8	16[B]	LEU	CA-C-N	6.73	129.97	120.28
1	8	16[B]	LEU	C-N-CA	6.73	129.97	120.28
3	L	276	PHE	CA-C-O	-6.72	114.07	121.87
3	F	446	GLY	CA-C-N	6.72	131.05	121.71
3	F	446	GLY	C-N-CA	6.72	131.05	121.71
1	A	16[A]	LEU	CA-C-N	6.72	129.96	120.28
1	A	16[A]	LEU	C-N-CA	6.72	129.96	120.28
1	A	16[B]	LEU	CA-C-N	6.72	129.96	120.28
1	A	16[B]	LEU	C-N-CA	6.72	129.96	120.28
3	C	179	PRO	N-CA-C	-6.72	103.74	113.75
1	P	16[A]	LEU	CA-C-N	6.72	129.96	120.28
1	P	16[A]	LEU	C-N-CA	6.72	129.96	120.28
1	P	16[B]	LEU	CA-C-N	6.72	129.96	120.28
1	P	16[B]	LEU	C-N-CA	6.72	129.96	120.28
3	C	276	PHE	CA-C-O	-6.72	114.08	121.87
1	M	16[A]	LEU	CA-C-N	6.72	129.95	120.28
1	M	16[A]	LEU	C-N-CA	6.72	129.95	120.28
1	M	16[B]	LEU	CA-C-N	6.72	129.95	120.28
1	M	16[B]	LEU	C-N-CA	6.72	129.95	120.28
3	R	276	PHE	CA-C-O	-6.72	114.08	121.87
3	4	276	PHE	CA-C-O	-6.72	114.08	121.87
1	W	16[A]	LEU	CA-C-N	6.71	129.95	120.28
1	W	16[A]	LEU	C-N-CA	6.71	129.95	120.28
1	W	16[B]	LEU	CA-C-N	6.71	129.95	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	16[B]	LEU	C-N-CA	6.71	129.95	120.28
3	7	276	PHE	CA-C-O	-6.71	114.08	121.87
3	F	276	PHE	CA-C-O	-6.71	114.09	121.87
1	J	16[A]	LEU	CA-C-N	6.70	129.93	120.28
1	J	16[A]	LEU	C-N-CA	6.70	129.93	120.28
1	J	16[B]	LEU	CA-C-N	6.70	129.93	120.28
1	J	16[B]	LEU	C-N-CA	6.70	129.93	120.28
3	U	276	PHE	CA-C-O	-6.70	114.10	121.87
1	D	16[A]	LEU	CA-C-N	6.70	129.93	120.28
1	D	16[A]	LEU	C-N-CA	6.70	129.93	120.28
1	D	16[B]	LEU	CA-C-N	6.70	129.93	120.28
1	D	16[B]	LEU	C-N-CA	6.70	129.93	120.28
3	I	465	ASP	CB-CA-C	6.70	119.72	109.60
3	O	465	ASP	CB-CA-C	6.69	119.71	109.60
1	G	16[A]	LEU	CA-C-N	6.69	129.91	120.28
1	G	16[A]	LEU	C-N-CA	6.69	129.91	120.28
1	G	16[B]	LEU	CA-C-N	6.69	129.91	120.28
1	G	16[B]	LEU	C-N-CA	6.69	129.91	120.28
3	R	436	ASP	CA-C-N	6.69	133.33	122.29
3	R	436	ASP	C-N-CA	6.69	133.33	122.29
3	4	465	ASP	CB-CA-C	6.69	119.70	109.60
3	L	465	ASP	CB-CA-C	6.69	119.70	109.60
3	7	465	ASP	CB-CA-C	6.68	119.69	109.60
3	1	276	PHE	CA-C-O	-6.68	114.12	121.87
3	O	276	PHE	CA-C-O	-6.68	114.12	121.87
3	1	436	ASP	CA-C-N	6.68	133.31	122.29
3	1	436	ASP	C-N-CA	6.68	133.31	122.29
3	1	465	ASP	CB-CA-C	6.67	119.68	109.60
3	U	465	ASP	CB-CA-C	6.67	119.68	109.60
3	C	465	ASP	CB-CA-C	6.67	119.68	109.60
3	R	465	ASP	CB-CA-C	6.67	119.67	109.60
3	I	436	ASP	CA-C-N	6.66	133.28	122.29
3	I	436	ASP	C-N-CA	6.66	133.28	122.29
3	V	201	LYS	CB-CG-CD	6.66	126.61	111.30
3	Y	465	ASP	CB-CA-C	6.66	119.65	109.60
3	C	436	ASP	CA-C-N	6.65	133.27	122.29
3	C	436	ASP	C-N-CA	6.65	133.27	122.29
3	7	255	LEU	CA-C-N	6.65	132.05	122.40
3	7	255	LEU	C-N-CA	6.65	132.05	122.40
3	R	201	LYS	CB-CG-CD	6.65	126.60	111.30
3	F	255	LEU	CA-C-N	6.65	132.04	122.40
3	F	255	LEU	C-N-CA	6.65	132.04	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	436	ASP	CA-C-N	6.65	133.26	122.29
3	O	436	ASP	C-N-CA	6.65	133.26	122.29
3	Y	436	ASP	CA-C-N	6.65	133.26	122.29
3	Y	436	ASP	C-N-CA	6.65	133.26	122.29
3	F	436	ASP	CA-C-N	6.65	133.26	122.29
3	F	436	ASP	C-N-CA	6.65	133.26	122.29
3	L	255	LEU	CA-C-N	6.65	132.04	122.40
3	L	255	LEU	C-N-CA	6.65	132.04	122.40
3	I	443	ARG	CA-C-N	6.65	132.61	122.37
3	I	443	ARG	C-N-CA	6.65	132.61	122.37
3	V	436	ASP	CA-C-N	6.65	133.26	122.29
3	V	436	ASP	C-N-CA	6.65	133.26	122.29
3	V	465	ASP	CB-CA-C	6.65	119.64	109.60
3	O	201	LYS	CB-CG-CD	6.65	126.59	111.30
3	F	465	ASP	CB-CA-C	6.64	119.63	109.60
3	R	255	LEU	CA-C-N	6.64	132.03	122.40
3	R	255	LEU	C-N-CA	6.64	132.03	122.40
3	U	201	LYS	CB-CG-CD	6.64	126.58	111.30
3	U	436	ASP	CA-C-N	6.64	133.25	122.29
3	U	436	ASP	C-N-CA	6.64	133.25	122.29
3	Y	201	LYS	CB-CG-CD	6.64	126.58	111.30
3	F	201	LYS	CB-CG-CD	6.64	126.57	111.30
3	1	201	LYS	CB-CG-CD	6.64	126.57	111.30
3	1	255	LEU	CA-C-N	6.64	132.03	122.40
3	1	255	LEU	C-N-CA	6.64	132.03	122.40
3	7	436	ASP	CA-C-N	6.64	133.25	122.29
3	7	436	ASP	C-N-CA	6.64	133.25	122.29
3	L	436	ASP	CA-C-N	6.64	133.24	122.29
3	L	436	ASP	C-N-CA	6.64	133.24	122.29
3	4	436	ASP	CA-C-N	6.64	133.24	122.29
3	4	436	ASP	C-N-CA	6.64	133.24	122.29
3	I	201	LYS	CB-CG-CD	6.63	126.56	111.30
3	V	443	ARG	CA-C-N	6.63	132.59	122.37
3	V	443	ARG	C-N-CA	6.63	132.59	122.37
3	C	201	LYS	CB-CG-CD	6.63	126.56	111.30
3	V	255	LEU	CA-C-N	6.63	132.01	122.40
3	V	255	LEU	C-N-CA	6.63	132.01	122.40
3	L	201	LYS	CB-CG-CD	6.62	126.54	111.30
3	C	255	LEU	CA-C-N	6.62	132.00	122.40
3	C	255	LEU	C-N-CA	6.62	132.00	122.40
3	4	201	LYS	CB-CG-CD	6.62	126.54	111.30
3	7	443	ARG	CA-C-N	6.62	132.57	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	443	ARG	C-N-CA	6.62	132.57	122.37
3	7	201	LYS	CB-CG-CD	6.62	126.53	111.30
3	R	443	ARG	CA-C-N	6.62	132.56	122.37
3	R	443	ARG	C-N-CA	6.62	132.56	122.37
3	4	443	ARG	CA-C-N	6.62	132.56	122.37
3	4	443	ARG	C-N-CA	6.62	132.56	122.37
3	C	179	PRO	CA-N-CD	-6.62	102.74	112.00
3	F	443	ARG	CA-C-N	6.62	132.56	122.37
3	F	443	ARG	C-N-CA	6.62	132.56	122.37
3	L	443	ARG	CA-C-N	6.62	132.56	122.37
3	L	443	ARG	C-N-CA	6.62	132.56	122.37
3	O	255	LEU	CA-C-N	6.62	131.99	122.40
3	O	255	LEU	C-N-CA	6.62	131.99	122.40
3	C	443	ARG	CA-C-N	6.61	132.56	122.37
3	C	443	ARG	C-N-CA	6.61	132.56	122.37
3	Y	443	ARG	CA-C-N	6.61	132.56	122.37
3	Y	443	ARG	C-N-CA	6.61	132.56	122.37
3	1	443	ARG	CA-C-N	6.61	132.55	122.37
3	1	443	ARG	C-N-CA	6.61	132.55	122.37
3	I	255	LEU	CA-C-N	6.61	131.98	122.40
3	I	255	LEU	C-N-CA	6.61	131.98	122.40
2	K	53	LYS	CA-CB-CG	6.61	127.32	114.10
3	O	443	ARG	CA-C-N	6.61	132.54	122.37
3	O	443	ARG	C-N-CA	6.61	132.54	122.37
3	7	225	GLU	CA-CB-CG	6.61	127.31	114.10
3	I	225	GLU	CA-CB-CG	6.61	127.31	114.10
2	Q	53	LYS	CA-CB-CG	6.61	127.31	114.10
2	H	53	LYS	CA-CB-CG	6.60	127.31	114.10
3	R	225	GLU	CA-CB-CG	6.60	127.30	114.10
3	U	255	LEU	CA-C-N	6.60	131.97	122.40
3	U	255	LEU	C-N-CA	6.60	131.97	122.40
2	E	53	LYS	CA-CB-CG	6.60	127.30	114.10
3	F	225	GLU	CA-CB-CG	6.60	127.30	114.10
2	T	53	LYS	CA-CB-CG	6.60	127.30	114.10
3	L	236	HIS	CA-C-N	6.60	129.45	120.54
3	L	236	HIS	C-N-CA	6.60	129.45	120.54
3	Y	225	GLU	CA-CB-CG	6.60	127.30	114.10
3	U	443	ARG	CA-C-N	6.60	132.53	122.37
3	U	443	ARG	C-N-CA	6.60	132.53	122.37
3	C	225	GLU	CA-CB-CG	6.60	127.29	114.10
2	B	53	LYS	CA-CB-CG	6.59	127.29	114.10
3	O	534	ASP	CA-C-N	6.59	130.93	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	534	ASP	C-N-CA	6.59	130.93	121.50
3	1	534	ASP	CA-C-N	6.59	130.93	121.50
3	1	534	ASP	C-N-CA	6.59	130.93	121.50
2	6	53	LYS	CA-CB-CG	6.59	127.29	114.10
3	U	225	GLU	CA-CB-CG	6.59	127.29	114.10
3	U	236	HIS	CA-C-N	6.59	129.44	120.54
3	U	236	HIS	C-N-CA	6.59	129.44	120.54
3	V	225	GLU	CA-CB-CG	6.59	127.28	114.10
3	U	534	ASP	CA-C-N	6.59	130.93	121.50
3	U	534	ASP	C-N-CA	6.59	130.93	121.50
3	V	534	ASP	CA-C-N	6.59	130.92	121.50
3	V	534	ASP	C-N-CA	6.59	130.92	121.50
3	Y	236	HIS	CA-C-N	6.59	129.44	120.54
3	Y	236	HIS	C-N-CA	6.59	129.44	120.54
3	4	534	ASP	CA-C-N	6.59	130.92	121.50
3	4	534	ASP	C-N-CA	6.59	130.92	121.50
3	L	304	ASN	CA-C-N	6.59	126.21	119.56
3	L	304	ASN	C-N-CA	6.59	126.21	119.56
3	Y	255	LEU	CA-C-N	6.59	131.95	122.40
3	Y	255	LEU	C-N-CA	6.59	131.95	122.40
3	1	225	GLU	CA-CB-CG	6.59	127.27	114.10
3	C	534	ASP	CA-C-N	6.58	130.91	121.50
3	C	534	ASP	C-N-CA	6.58	130.91	121.50
3	L	534	ASP	CA-C-N	6.58	130.91	121.50
3	L	534	ASP	C-N-CA	6.58	130.91	121.50
3	O	225	GLU	CA-CB-CG	6.58	127.27	114.10
3	7	534	ASP	CA-C-N	6.58	130.91	121.50
3	7	534	ASP	C-N-CA	6.58	130.91	121.50
2	9	53	LYS	CA-CB-CG	6.58	127.27	114.10
2	X	53	LYS	CA-CB-CG	6.58	127.27	114.10
2	3	53	LYS	CA-CB-CG	6.58	127.26	114.10
2	0	53	LYS	CA-CB-CG	6.58	127.26	114.10
2	N	53	LYS	CA-CB-CG	6.58	127.25	114.10
3	L	225	GLU	CA-CB-CG	6.57	127.25	114.10
3	F	534	ASP	CA-C-N	6.57	130.90	121.50
3	F	534	ASP	C-N-CA	6.57	130.90	121.50
3	Y	437	LEU	CA-C-N	6.57	132.12	122.99
3	Y	437	LEU	C-N-CA	6.57	132.12	122.99
3	4	225	GLU	CA-CB-CG	6.57	127.24	114.10
3	C	236	HIS	CA-C-N	6.57	129.41	120.54
3	C	236	HIS	C-N-CA	6.57	129.41	120.54
3	O	304	ASN	CA-C-N	6.57	126.19	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	304	ASN	C-N-CA	6.57	126.19	119.56
3	1	304	ASN	CA-C-N	6.57	126.19	119.56
3	1	304	ASN	C-N-CA	6.57	126.19	119.56
3	Y	534	ASP	CA-C-N	6.57	130.89	121.50
3	Y	534	ASP	C-N-CA	6.57	130.89	121.50
3	7	236	HIS	CA-C-N	6.57	129.40	120.54
3	7	236	HIS	C-N-CA	6.57	129.40	120.54
3	4	304	ASN	CA-C-N	6.56	126.19	119.56
3	4	304	ASN	C-N-CA	6.56	126.19	119.56
3	O	236	HIS	CA-C-N	6.56	129.40	120.54
3	O	236	HIS	C-N-CA	6.56	129.40	120.54
3	R	236	HIS	CA-C-N	6.56	129.39	120.54
3	R	236	HIS	C-N-CA	6.56	129.39	120.54
3	R	304	ASN	CA-C-N	6.56	126.18	119.56
3	R	304	ASN	C-N-CA	6.56	126.18	119.56
3	F	236	HIS	CA-C-N	6.56	129.39	120.54
3	F	236	HIS	C-N-CA	6.56	129.39	120.54
3	I	534	ASP	CA-C-N	6.55	130.87	121.50
3	I	534	ASP	C-N-CA	6.55	130.87	121.50
3	R	534	ASP	CA-C-N	6.55	130.87	121.50
3	R	534	ASP	C-N-CA	6.55	130.87	121.50
3	I	437	LEU	CA-C-N	6.55	132.09	122.99
3	I	437	LEU	C-N-CA	6.55	132.09	122.99
3	V	437	LEU	CA-C-N	6.55	132.09	122.99
3	V	437	LEU	C-N-CA	6.55	132.09	122.99
3	Y	304	ASN	CA-C-N	6.55	126.17	119.56
3	Y	304	ASN	C-N-CA	6.55	126.17	119.56
3	U	437	LEU	CA-C-N	6.55	132.09	122.99
3	U	437	LEU	C-N-CA	6.55	132.09	122.99
3	L	437	LEU	CA-C-N	6.55	132.09	122.99
3	L	437	LEU	C-N-CA	6.55	132.09	122.99
3	O	437	LEU	CA-C-N	6.54	132.09	122.99
3	O	437	LEU	C-N-CA	6.54	132.09	122.99
3	C	437	LEU	CA-C-N	6.54	132.08	122.99
3	C	437	LEU	C-N-CA	6.54	132.08	122.99
3	C	304	ASN	CA-C-N	6.54	126.16	119.56
3	C	304	ASN	C-N-CA	6.54	126.16	119.56
3	F	304	ASN	CA-C-N	6.54	126.16	119.56
3	F	304	ASN	C-N-CA	6.54	126.16	119.56
3	F	437	LEU	CA-C-N	6.54	132.08	122.99
3	F	437	LEU	C-N-CA	6.54	132.08	122.99
3	I	236	HIS	CA-C-N	6.54	129.37	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	236	HIS	C-N-CA	6.54	129.37	120.54
3	I	269	GLU	CA-CB-CG	6.54	127.17	114.10
3	V	236	HIS	CA-C-N	6.54	129.37	120.54
3	V	236	HIS	C-N-CA	6.54	129.37	120.54
3	1	236	HIS	CA-C-N	6.54	129.36	120.54
3	1	236	HIS	C-N-CA	6.54	129.36	120.54
3	U	269	GLU	CA-CB-CG	6.54	127.17	114.10
3	I	304	ASN	CA-C-N	6.53	126.16	119.56
3	I	304	ASN	C-N-CA	6.53	126.16	119.56
3	V	410	ALA	CA-C-N	6.53	129.03	120.28
3	V	410	ALA	C-N-CA	6.53	129.03	120.28
3	Y	269	GLU	CA-CB-CG	6.53	127.16	114.10
3	4	437	LEU	CA-C-N	6.53	132.07	122.99
3	4	437	LEU	C-N-CA	6.53	132.07	122.99
3	L	269	GLU	CA-CB-CG	6.53	127.16	114.10
3	I	213	GLN	CA-C-N	6.53	129.86	120.79
3	I	213	GLN	C-N-CA	6.53	129.86	120.79
3	1	437	LEU	CA-C-N	6.53	132.06	122.99
3	1	437	LEU	C-N-CA	6.53	132.06	122.99
3	7	193	PRO	CA-N-CD	-6.53	102.86	112.00
3	7	437	LEU	CA-C-N	6.53	132.06	122.99
3	7	437	LEU	C-N-CA	6.53	132.06	122.99
3	C	269	GLU	CA-CB-CG	6.52	127.14	114.10
3	Y	123	ALA	CA-C-N	6.52	131.68	123.14
3	Y	123	ALA	C-N-CA	6.52	131.68	123.14
3	4	236	HIS	CA-C-N	6.52	129.35	120.54
3	4	236	HIS	C-N-CA	6.52	129.35	120.54
3	R	437	LEU	CA-C-N	6.52	132.05	122.99
3	R	437	LEU	C-N-CA	6.52	132.05	122.99
3	1	193	PRO	CA-N-CD	-6.52	102.87	112.00
3	U	410	ALA	CA-C-N	6.52	129.02	120.28
3	U	410	ALA	C-N-CA	6.52	129.02	120.28
3	F	410	ALA	CA-C-N	6.52	129.01	120.28
3	F	410	ALA	C-N-CA	6.52	129.01	120.28
3	O	269	GLU	CA-CB-CG	6.52	127.14	114.10
3	R	123	ALA	CA-C-N	6.52	131.68	123.14
3	R	123	ALA	C-N-CA	6.52	131.68	123.14
3	1	269	GLU	CA-CB-CG	6.52	127.14	114.10
3	4	269	GLU	CA-CB-CG	6.52	127.13	114.10
3	7	269	GLU	CA-CB-CG	6.52	127.14	114.10
3	7	304	ASN	CA-C-N	6.52	126.14	119.56
3	7	304	ASN	C-N-CA	6.52	126.14	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	193	PRO	CA-N-CD	-6.52	102.88	112.00
3	V	269	GLU	CA-CB-CG	6.51	127.13	114.10
3	F	269	GLU	CA-CB-CG	6.51	127.12	114.10
3	C	410	ALA	CA-C-N	6.51	129.00	120.28
3	C	410	ALA	C-N-CA	6.51	129.00	120.28
3	F	193	PRO	CA-N-CD	-6.51	102.89	112.00
3	V	123	ALA	CA-C-N	6.51	131.66	123.14
3	V	123	ALA	C-N-CA	6.51	131.66	123.14
3	U	304	ASN	CA-C-N	6.51	126.13	119.56
3	U	304	ASN	C-N-CA	6.51	126.13	119.56
3	C	123	ALA	CA-C-N	6.50	131.66	123.14
3	C	123	ALA	C-N-CA	6.50	131.66	123.14
3	R	269	GLU	CA-CB-CG	6.50	127.11	114.10
3	R	410	ALA	CA-C-N	6.50	128.99	120.28
3	R	410	ALA	C-N-CA	6.50	128.99	120.28
3	4	213	GLN	CA-C-N	6.50	129.83	120.79
3	4	213	GLN	C-N-CA	6.50	129.83	120.79
3	I	410	ALA	CA-C-N	6.50	128.99	120.28
3	I	410	ALA	C-N-CA	6.50	128.99	120.28
3	L	123	ALA	CA-C-N	6.50	131.66	123.14
3	L	123	ALA	C-N-CA	6.50	131.66	123.14
3	V	304	ASN	CA-C-N	6.50	126.13	119.56
3	V	304	ASN	C-N-CA	6.50	126.13	119.56
3	1	410	ALA	CA-C-N	6.50	128.99	120.28
3	1	410	ALA	C-N-CA	6.50	128.99	120.28
3	V	213	GLN	CA-C-N	6.50	129.82	120.79
3	V	213	GLN	C-N-CA	6.50	129.82	120.79
3	F	123	ALA	CA-C-N	6.50	131.65	123.14
3	F	123	ALA	C-N-CA	6.50	131.65	123.14
3	1	213	GLN	CA-C-N	6.50	129.82	120.79
3	1	213	GLN	C-N-CA	6.50	129.82	120.79
3	4	193	PRO	CA-N-CD	-6.50	102.90	112.00
3	U	123	ALA	CA-C-N	6.50	131.65	123.14
3	U	123	ALA	C-N-CA	6.50	131.65	123.14
3	Y	410	ALA	CA-C-N	6.50	128.99	120.28
3	Y	410	ALA	C-N-CA	6.50	128.99	120.28
3	4	410	ALA	CA-C-N	6.50	128.98	120.28
3	4	410	ALA	C-N-CA	6.50	128.98	120.28
3	7	410	ALA	CA-C-N	6.50	128.99	120.28
3	7	410	ALA	C-N-CA	6.50	128.99	120.28
3	C	213	GLN	CA-C-N	6.50	129.82	120.79
3	C	213	GLN	C-N-CA	6.50	129.82	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	123	ALA	CA-C-N	6.50	131.65	123.14
3	4	123	ALA	C-N-CA	6.50	131.65	123.14
3	C	193	PRO	CA-N-CD	-6.49	102.91	112.00
3	U	213	GLN	CA-C-N	6.49	129.81	120.79
3	U	213	GLN	C-N-CA	6.49	129.81	120.79
3	I	123	ALA	CA-C-N	6.49	131.64	123.14
3	I	123	ALA	C-N-CA	6.49	131.64	123.14
3	L	193	PRO	CA-N-CD	-6.49	102.92	112.00
3	L	213	GLN	CA-C-N	6.49	129.81	120.79
3	L	213	GLN	C-N-CA	6.49	129.81	120.79
3	O	410	ALA	CA-C-N	6.49	128.97	120.28
3	O	410	ALA	C-N-CA	6.49	128.97	120.28
3	Y	435[A]	ALA	CA-C-O	-6.49	114.56	122.41
3	Y	435[B]	ALA	CA-C-O	-6.49	114.56	122.41
3	F	213	GLN	CA-C-N	6.49	129.80	120.79
3	F	213	GLN	C-N-CA	6.49	129.80	120.79
3	O	213	GLN	CA-C-N	6.49	129.81	120.79
3	O	213	GLN	C-N-CA	6.49	129.81	120.79
3	R	213	GLN	CA-C-N	6.49	129.81	120.79
3	R	213	GLN	C-N-CA	6.49	129.81	120.79
3	Y	193	PRO	CA-N-CD	-6.49	102.92	112.00
3	7	448	LYS	CB-CG-CD	6.49	126.22	111.30
3	I	448	LYS	CB-CG-CD	6.48	126.21	111.30
3	O	193	PRO	CA-N-CD	-6.48	102.92	112.00
3	V	193	PRO	CA-N-CD	-6.48	102.92	112.00
3	V	435[A]	ALA	CA-C-O	-6.48	114.56	122.41
3	V	435[B]	ALA	CA-C-O	-6.48	114.56	122.41
3	Y	213	GLN	CA-C-N	6.48	129.80	120.79
3	Y	213	GLN	C-N-CA	6.48	129.80	120.79
3	1	123	ALA	CA-C-N	6.48	131.63	123.14
3	1	123	ALA	C-N-CA	6.48	131.63	123.14
3	O	123	ALA	CA-C-N	6.48	131.63	123.14
3	O	123	ALA	C-N-CA	6.48	131.63	123.14
3	7	213	GLN	CA-C-N	6.47	129.79	120.79
3	7	213	GLN	C-N-CA	6.47	129.79	120.79
3	7	123	ALA	CA-C-N	6.47	131.62	123.14
3	7	123	ALA	C-N-CA	6.47	131.62	123.14
3	R	493	CYS	CA-C-N	6.47	131.21	123.19
3	R	493	CYS	C-N-CA	6.47	131.21	123.19
3	Y	448	LYS	CB-CG-CD	6.47	126.17	111.30
3	4	493	CYS	CA-C-N	6.47	131.21	123.19
3	4	493	CYS	C-N-CA	6.47	131.21	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	435[A]	ALA	CA-C-O	-6.46	114.59	122.41
3	I	435[B]	ALA	CA-C-O	-6.46	114.59	122.41
3	L	410	ALA	CA-C-N	6.46	128.94	120.28
3	L	410	ALA	C-N-CA	6.46	128.94	120.28
3	O	493	CYS	CA-C-N	6.46	131.21	123.19
3	O	493	CYS	C-N-CA	6.46	131.21	123.19
3	O	435[A]	ALA	CA-C-O	-6.46	114.59	122.41
3	O	435[B]	ALA	CA-C-O	-6.46	114.59	122.41
3	F	493	CYS	CA-C-N	6.46	131.20	123.19
3	F	493	CYS	C-N-CA	6.46	131.20	123.19
3	L	448	LYS	CB-CG-CD	6.46	126.16	111.30
3	R	448	LYS	CB-CG-CD	6.46	126.16	111.30
3	7	435[A]	ALA	CA-C-O	-6.46	114.59	122.41
3	7	435[B]	ALA	CA-C-O	-6.46	114.59	122.41
3	C	448	LYS	CB-CG-CD	6.46	126.15	111.30
1	2	23	ARG	CB-CG-CD	6.46	126.16	111.30
3	4	435[A]	ALA	CA-C-O	-6.46	114.59	122.41
3	4	435[B]	ALA	CA-C-O	-6.46	114.59	122.41
3	U	193	PRO	CA-N-CD	-6.46	102.96	112.00
3	F	341	ARG	NE-CZ-NH2	-6.46	113.39	119.20
3	O	448	LYS	CB-CG-CD	6.46	126.15	111.30
3	U	448	LYS	CB-CG-CD	6.46	126.15	111.30
3	4	448	LYS	CB-CG-CD	6.46	126.14	111.30
1	J	23	ARG	CB-CG-CD	6.45	126.14	111.30
3	F	438	VAL	CA-C-N	6.45	132.08	123.05
3	F	438	VAL	C-N-CA	6.45	132.08	123.05
3	F	448	LYS	CB-CG-CD	6.45	126.14	111.30
3	L	435[A]	ALA	CA-C-O	-6.45	114.60	122.41
3	L	435[B]	ALA	CA-C-O	-6.45	114.60	122.41
3	Y	493	CYS	CA-C-N	6.45	131.19	123.19
3	Y	493	CYS	C-N-CA	6.45	131.19	123.19
3	I	493	CYS	CA-C-N	6.45	131.19	123.19
3	I	493	CYS	C-N-CA	6.45	131.19	123.19
1	S	23	ARG	CB-CG-CD	6.45	126.13	111.30
3	V	448	LYS	CB-CG-CD	6.45	126.13	111.30
1	Z	23	ARG	CB-CG-CD	6.45	126.13	111.30
3	1	448	LYS	CB-CG-CD	6.45	126.13	111.30
3	I	193	PRO	CA-N-CD	-6.45	102.97	112.00
3	U	493	CYS	CA-C-N	6.44	131.18	123.19
3	U	493	CYS	C-N-CA	6.44	131.18	123.19
1	A	23	ARG	CB-CG-CD	6.44	126.12	111.30
1	G	23	ARG	CB-CG-CD	6.44	126.12	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	141	PRO	CB-CA-C	6.44	119.76	111.64
1	8	23	ARG	CB-CG-CD	6.44	126.12	111.30
3	C	435[A]	ALA	CA-C-O	-6.44	114.62	122.41
3	C	435[B]	ALA	CA-C-O	-6.44	114.62	122.41
3	C	493	CYS	CA-C-N	6.44	131.17	123.19
3	C	493	CYS	C-N-CA	6.44	131.17	123.19
3	L	341	ARG	NE-CZ-NH2	-6.43	113.41	119.20
3	F	435[A]	ALA	CA-C-O	-6.43	114.63	122.41
3	F	435[B]	ALA	CA-C-O	-6.43	114.63	122.41
1	W	23	ARG	CB-CG-CD	6.43	126.10	111.30
3	1	493	CYS	CA-C-N	6.43	131.17	123.19
3	1	493	CYS	C-N-CA	6.43	131.17	123.19
1	5	23	ARG	CB-CG-CD	6.43	126.09	111.30
1	M	23	ARG	CB-CG-CD	6.43	126.09	111.30
1	P	23	ARG	CB-CG-CD	6.43	126.09	111.30
3	1	435[A]	ALA	CA-C-O	-6.43	114.63	122.41
3	1	435[B]	ALA	CA-C-O	-6.43	114.63	122.41
3	7	493	CYS	CA-C-N	6.43	131.16	123.19
3	7	493	CYS	C-N-CA	6.43	131.16	123.19
3	Y	438	VAL	CA-C-N	6.42	132.04	123.05
3	Y	438	VAL	C-N-CA	6.42	132.04	123.05
3	O	341	ARG	NE-CZ-NH2	-6.42	113.42	119.20
3	V	493	CYS	CA-C-N	6.42	131.15	123.19
3	V	493	CYS	C-N-CA	6.42	131.15	123.19
1	D	23	ARG	CB-CG-CD	6.42	126.07	111.30
2	0	141	PRO	CB-CA-C	6.42	119.73	111.64
3	L	493	CYS	CA-C-N	6.42	131.15	123.19
3	L	493	CYS	C-N-CA	6.42	131.15	123.19
3	O	438	VAL	CA-C-N	6.42	132.04	123.05
3	O	438	VAL	C-N-CA	6.42	132.04	123.05
3	R	438	VAL	CA-C-N	6.42	132.04	123.05
3	R	438	VAL	C-N-CA	6.42	132.04	123.05
3	1	341	ARG	NE-CZ-NH2	-6.42	113.42	119.20
2	9	141	PRO	CB-CA-C	6.42	119.73	111.64
2	B	141	PRO	CB-CA-C	6.42	119.72	111.64
3	R	435[A]	ALA	CA-C-O	-6.42	114.65	122.41
3	R	435[B]	ALA	CA-C-O	-6.42	114.65	122.41
3	C	438	VAL	CA-C-N	6.41	132.03	123.05
3	C	438	VAL	C-N-CA	6.41	132.03	123.05
3	V	449	PRO	CA-N-CD	-6.41	103.02	112.00
3	L	460	TRP	CA-CB-CG	6.41	125.78	113.60
3	4	438	VAL	CA-C-N	6.41	132.02	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	438	VAL	C-N-CA	6.41	132.02	123.05
3	7	438	VAL	CA-C-N	6.41	132.02	123.05
3	7	438	VAL	C-N-CA	6.41	132.02	123.05
2	6	141	PRO	CB-CA-C	6.40	119.71	111.64
2	H	141	PRO	CB-CA-C	6.40	119.71	111.64
3	I	438	VAL	CA-C-N	6.40	132.01	123.05
3	I	438	VAL	C-N-CA	6.40	132.01	123.05
3	O	449	PRO	CA-N-CD	-6.40	103.04	112.00
2	T	141	PRO	CB-CA-C	6.40	119.70	111.64
3	1	438	VAL	CA-C-N	6.40	132.01	123.05
3	1	438	VAL	C-N-CA	6.40	132.01	123.05
3	F	449	PRO	CA-N-CD	-6.40	103.04	112.00
3	O	460	TRP	CA-CB-CG	6.40	125.76	113.60
3	U	435[A]	ALA	CA-C-O	-6.40	114.67	122.41
3	U	435[B]	ALA	CA-C-O	-6.40	114.67	122.41
3	I	460	TRP	CA-CB-CG	6.40	125.76	113.60
3	7	460	TRP	CA-CB-CG	6.40	125.75	113.60
2	X	141	PRO	CB-CA-C	6.40	119.70	111.64
2	E	141	PRO	CB-CA-C	6.39	119.70	111.64
3	L	438	VAL	CA-C-N	6.39	132.00	123.05
3	L	438	VAL	C-N-CA	6.39	132.00	123.05
3	V	341	ARG	NE-CZ-NH2	-6.39	113.45	119.20
3	C	341	ARG	NE-CZ-NH2	-6.39	113.45	119.20
3	F	460	TRP	CA-CB-CG	6.39	125.74	113.60
2	K	141	PRO	CB-CA-C	6.39	119.69	111.64
3	V	460	TRP	CA-CB-CG	6.39	125.74	113.60
3	U	460	TRP	CA-CB-CG	6.39	125.74	113.60
3	R	341	ARG	NE-CZ-NH2	-6.39	113.45	119.20
3	U	438	VAL	CA-C-N	6.39	131.99	123.05
3	U	438	VAL	C-N-CA	6.39	131.99	123.05
2	N	141	PRO	CB-CA-C	6.39	119.69	111.64
3	V	438	VAL	CA-C-N	6.39	131.99	123.05
3	V	438	VAL	C-N-CA	6.39	131.99	123.05
3	7	341	ARG	NE-CZ-NH2	-6.39	113.45	119.20
3	U	341	ARG	NE-CZ-NH2	-6.39	113.45	119.20
3	C	460	TRP	CA-CB-CG	6.38	125.73	113.60
3	7	449	PRO	CA-N-CD	-6.38	103.06	112.00
3	I	341	ARG	NE-CZ-NH2	-6.38	113.45	119.20
3	L	449	PRO	CA-N-CD	-6.38	103.07	112.00
2	3	141	PRO	CB-CA-C	6.38	119.67	111.64
3	4	341	ARG	NE-CZ-NH2	-6.38	113.46	119.20
3	4	449	PRO	CA-N-CD	-6.37	103.08	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	449	PRO	CA-N-CD	-6.37	103.08	112.00
3	Y	341	ARG	NE-CZ-NH2	-6.37	113.47	119.20
3	1	207	ARG	NE-CZ-NH1	6.37	127.87	121.50
3	U	449	PRO	CA-N-CD	-6.37	103.08	112.00
3	Y	460	TRP	CA-CB-CG	6.37	125.70	113.60
3	1	460	TRP	CA-CB-CG	6.37	125.70	113.60
3	L	207	ARG	NE-CZ-NH1	6.37	127.87	121.50
3	1	449	PRO	CA-N-CD	-6.37	103.09	112.00
3	R	460	TRP	CA-CB-CG	6.36	125.69	113.60
3	R	407[A]	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	R	407[B]	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	4	460	TRP	CA-CB-CG	6.36	125.68	113.60
3	7	207	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	L	407[A]	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	L	407[B]	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	V	207	ARG	NE-CZ-NH1	6.36	127.86	121.50
3	Y	407[A]	ARG	NE-CZ-NH1	6.35	127.85	121.50
3	Y	407[B]	ARG	NE-CZ-NH1	6.35	127.85	121.50
3	I	449	PRO	CA-N-CD	-6.35	103.11	112.00
3	Y	23	LEU	CA-C-N	6.35	130.61	120.07
3	Y	23	LEU	C-N-CA	6.35	130.61	120.07
3	1	407[A]	ARG	NE-CZ-NH1	6.35	127.85	121.50
3	1	407[B]	ARG	NE-CZ-NH1	6.35	127.85	121.50
3	U	407[A]	ARG	NE-CZ-NH1	6.35	127.85	121.50
3	U	407[B]	ARG	NE-CZ-NH1	6.35	127.85	121.50
3	R	449	PRO	CA-N-CD	-6.35	103.11	112.00
3	F	23	LEU	CA-C-N	6.35	130.61	120.07
3	F	23	LEU	C-N-CA	6.35	130.61	120.07
3	Y	449	PRO	CA-N-CD	-6.35	103.11	112.00
3	4	23	LEU	CA-C-N	6.34	130.60	120.07
3	4	23	LEU	C-N-CA	6.34	130.60	120.07
3	4	407[A]	ARG	NE-CZ-NH1	6.34	127.84	121.50
3	4	407[B]	ARG	NE-CZ-NH1	6.34	127.84	121.50
3	C	407[A]	ARG	NE-CZ-NH1	6.34	127.84	121.50
3	C	407[B]	ARG	NE-CZ-NH1	6.34	127.84	121.50
3	7	435[A]	ALA	CA-C-N	6.34	132.15	122.77
3	7	435[A]	ALA	C-N-CA	6.34	132.15	122.77
3	7	435[B]	ALA	CA-C-N	6.34	132.15	122.77
3	7	435[B]	ALA	C-N-CA	6.34	132.15	122.77
3	U	435[A]	ALA	CA-C-N	6.34	132.15	122.77
3	U	435[A]	ALA	C-N-CA	6.34	132.15	122.77
3	U	435[B]	ALA	CA-C-N	6.34	132.15	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	435[B]	ALA	C-N-CA	6.34	132.15	122.77
3	C	207	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	U	23	LEU	CA-C-N	6.33	130.58	120.07
3	U	23	LEU	C-N-CA	6.33	130.58	120.07
3	F	407[A]	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	F	407[B]	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	I	435[A]	ALA	CA-C-N	6.33	132.14	122.77
3	I	435[A]	ALA	C-N-CA	6.33	132.14	122.77
3	I	435[B]	ALA	CA-C-N	6.33	132.14	122.77
3	I	435[B]	ALA	C-N-CA	6.33	132.14	122.77
3	L	435[A]	ALA	CA-C-N	6.33	132.14	122.77
3	L	435[A]	ALA	C-N-CA	6.33	132.14	122.77
3	L	435[B]	ALA	CA-C-N	6.33	132.14	122.77
3	L	435[B]	ALA	C-N-CA	6.33	132.14	122.77
3	O	407[A]	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	O	407[B]	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	R	207	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	V	23	LEU	CA-C-N	6.33	130.58	120.07
3	V	23	LEU	C-N-CA	6.33	130.58	120.07
3	I	407[A]	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	I	407[B]	ARG	NE-CZ-NH1	6.33	127.83	121.50
3	O	94	GLY	CA-C-N	6.33	132.74	122.81
3	O	94	GLY	C-N-CA	6.33	132.74	122.81
3	R	23	LEU	CA-C-N	6.33	130.57	120.07
3	R	23	LEU	C-N-CA	6.33	130.57	120.07
3	O	207	ARG	NE-CZ-NH1	6.32	127.82	121.50
3	C	435[A]	ALA	CA-C-N	6.32	132.12	122.77
3	C	435[A]	ALA	C-N-CA	6.32	132.12	122.77
3	C	435[B]	ALA	CA-C-N	6.32	132.12	122.77
3	C	435[B]	ALA	C-N-CA	6.32	132.12	122.77
3	I	23	LEU	CA-C-N	6.32	130.56	120.07
3	I	23	LEU	C-N-CA	6.32	130.56	120.07
3	1	435[A]	ALA	CA-C-N	6.32	132.12	122.77
3	1	435[A]	ALA	C-N-CA	6.32	132.12	122.77
3	1	435[B]	ALA	CA-C-N	6.32	132.12	122.77
3	1	435[B]	ALA	C-N-CA	6.32	132.12	122.77
3	7	407[A]	ARG	NE-CZ-NH1	6.32	127.82	121.50
3	7	407[B]	ARG	NE-CZ-NH1	6.32	127.82	121.50
3	C	23	LEU	CA-C-N	6.32	130.55	120.07
3	C	23	LEU	C-N-CA	6.32	130.55	120.07
3	I	207	ARG	NE-CZ-NH1	6.32	127.82	121.50
3	F	435[A]	ALA	CA-C-N	6.31	132.10	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	435[A]	ALA	C-N-CA	6.31	132.10	122.77
3	F	435[B]	ALA	CA-C-N	6.31	132.10	122.77
3	F	435[B]	ALA	C-N-CA	6.31	132.10	122.77
3	V	435[A]	ALA	CA-C-N	6.31	132.11	122.77
3	V	435[A]	ALA	C-N-CA	6.31	132.11	122.77
3	V	435[B]	ALA	CA-C-N	6.31	132.11	122.77
3	V	435[B]	ALA	C-N-CA	6.31	132.11	122.77
3	7	23	LEU	CA-C-N	6.31	130.54	120.07
3	7	23	LEU	C-N-CA	6.31	130.54	120.07
3	L	23	LEU	CA-C-N	6.30	130.54	120.07
3	L	23	LEU	C-N-CA	6.30	130.54	120.07
3	Y	207	ARG	NE-CZ-NH1	6.30	127.80	121.50
3	U	94	GLY	CA-C-N	6.30	132.71	122.81
3	U	94	GLY	C-N-CA	6.30	132.71	122.81
3	U	207	ARG	NE-CZ-NH1	6.30	127.80	121.50
3	F	94	GLY	CA-C-N	6.30	132.70	122.81
3	F	94	GLY	C-N-CA	6.30	132.70	122.81
3	Y	435[A]	ALA	CA-C-N	6.30	132.10	122.77
3	Y	435[A]	ALA	C-N-CA	6.30	132.10	122.77
3	Y	435[B]	ALA	CA-C-N	6.30	132.10	122.77
3	Y	435[B]	ALA	C-N-CA	6.30	132.10	122.77
2	6	73	HIS	CA-CB-CG	-6.30	107.50	113.80
2	9	73	HIS	CA-CB-CG	-6.30	107.50	113.80
3	O	435[A]	ALA	CA-C-N	6.30	132.09	122.77
3	O	435[A]	ALA	C-N-CA	6.30	132.09	122.77
3	O	435[B]	ALA	CA-C-N	6.30	132.09	122.77
3	O	435[B]	ALA	C-N-CA	6.30	132.09	122.77
3	4	207	ARG	NE-CZ-NH1	6.30	127.80	121.50
3	F	207	ARG	NE-CZ-NH1	6.29	127.80	121.50
2	X	73	HIS	CA-CB-CG	-6.29	107.50	113.80
2	3	73	HIS	CA-CB-CG	-6.29	107.50	113.80
3	7	94	GLY	CA-C-N	6.29	132.69	122.81
3	7	94	GLY	C-N-CA	6.29	132.69	122.81
3	O	23	LEU	CA-C-N	6.29	130.51	120.07
3	O	23	LEU	C-N-CA	6.29	130.51	120.07
2	Q	73	HIS	CA-CB-CG	-6.29	107.51	113.80
3	I	94	GLY	CA-C-N	6.29	132.69	122.81
3	I	94	GLY	C-N-CA	6.29	132.69	122.81
3	C	94	GLY	CA-C-N	6.29	132.68	122.81
3	C	94	GLY	C-N-CA	6.29	132.68	122.81
2	K	73	HIS	CA-CB-CG	-6.29	107.51	113.80
3	1	23	LEU	CA-C-N	6.29	130.51	120.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	23	LEU	C-N-CA	6.29	130.51	120.07
3	R	94	GLY	CA-C-N	6.28	132.67	122.81
3	R	94	GLY	C-N-CA	6.28	132.67	122.81
3	4	435[A]	ALA	CA-C-N	6.28	132.07	122.77
3	4	435[A]	ALA	C-N-CA	6.28	132.07	122.77
3	4	435[B]	ALA	CA-C-N	6.28	132.07	122.77
3	4	435[B]	ALA	C-N-CA	6.28	132.07	122.77
2	B	73	HIS	CA-CB-CG	-6.28	107.52	113.80
2	T	73	HIS	CA-CB-CG	-6.28	107.52	113.80
2	0	73	HIS	CA-CB-CG	-6.28	107.52	113.80
3	L	94	GLY	CA-C-N	6.28	132.67	122.81
3	L	94	GLY	C-N-CA	6.28	132.67	122.81
3	R	435[A]	ALA	CA-C-N	6.28	132.06	122.77
3	R	435[A]	ALA	C-N-CA	6.28	132.06	122.77
3	R	435[B]	ALA	CA-C-N	6.28	132.06	122.77
3	R	435[B]	ALA	C-N-CA	6.28	132.06	122.77
3	V	407[A]	ARG	NE-CZ-NH1	6.28	127.78	121.50
3	V	407[B]	ARG	NE-CZ-NH1	6.28	127.78	121.50
3	Y	94	GLY	CA-C-N	6.27	132.66	122.81
3	Y	94	GLY	C-N-CA	6.27	132.66	122.81
3	4	94	GLY	CA-C-N	6.27	132.66	122.81
3	4	94	GLY	C-N-CA	6.27	132.66	122.81
3	Y	187	ARG	CB-CG-CD	6.27	125.73	111.30
3	4	187	ARG	CB-CG-CD	6.27	125.72	111.30
3	F	187	ARG	CB-CG-CD	6.27	125.71	111.30
3	1	94	GLY	CA-C-N	6.27	132.65	122.81
3	1	94	GLY	C-N-CA	6.27	132.65	122.81
3	O	187	ARG	CB-CG-CD	6.27	125.71	111.30
3	I	187	ARG	CB-CG-CD	6.26	125.71	111.30
3	R	187	ARG	CB-CG-CD	6.26	125.71	111.30
2	E	73	HIS	CA-CB-CG	-6.26	107.54	113.80
3	V	187	ARG	CB-CG-CD	6.26	125.70	111.30
3	C	187	ARG	CB-CG-CD	6.26	125.70	111.30
3	V	94	GLY	CA-C-N	6.26	132.63	122.81
3	V	94	GLY	C-N-CA	6.26	132.63	122.81
3	I	456	GLY	CA-C-N	6.25	132.94	122.87
3	I	456	GLY	C-N-CA	6.25	132.94	122.87
3	Y	456	GLY	CA-C-N	6.25	132.94	122.87
3	Y	456	GLY	C-N-CA	6.25	132.94	122.87
3	U	187	ARG	CB-CG-CD	6.25	125.68	111.30
3	1	187	ARG	CB-CG-CD	6.25	125.68	111.30
3	1	456	GLY	CA-C-N	6.25	132.94	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	456	GLY	C-N-CA	6.25	132.94	122.87
3	L	187	ARG	CB-CG-CD	6.25	125.67	111.30
3	7	187	ARG	CB-CG-CD	6.24	125.66	111.30
3	L	483	GLY	CA-C-N	6.24	133.28	122.56
3	L	483	GLY	C-N-CA	6.24	133.28	122.56
2	N	73	HIS	CA-CB-CG	-6.23	107.57	113.80
2	H	73	HIS	CA-CB-CG	-6.23	107.57	113.80
3	L	155	GLY	CA-C-N	6.23	130.91	123.19
3	L	155	GLY	C-N-CA	6.23	130.91	123.19
3	V	456	GLY	CA-C-N	6.22	132.89	122.87
3	V	456	GLY	C-N-CA	6.22	132.89	122.87
3	1	483	GLY	CA-C-N	6.22	133.26	122.56
3	1	483	GLY	C-N-CA	6.22	133.26	122.56
3	4	456	GLY	CA-C-N	6.22	132.89	122.87
3	4	456	GLY	C-N-CA	6.22	132.89	122.87
3	7	456	GLY	CA-C-N	6.22	132.89	122.87
3	7	456	GLY	C-N-CA	6.22	132.89	122.87
3	U	155	GLY	CA-C-N	6.22	130.91	123.19
3	U	155	GLY	C-N-CA	6.22	130.91	123.19
3	I	483	GLY	CA-C-N	6.22	133.26	122.56
3	I	483	GLY	C-N-CA	6.22	133.26	122.56
3	C	456	GLY	CA-C-N	6.22	132.88	122.87
3	C	456	GLY	C-N-CA	6.22	132.88	122.87
3	Y	483	GLY	CA-C-N	6.22	133.26	122.56
3	Y	483	GLY	C-N-CA	6.22	133.26	122.56
3	U	456	GLY	CA-C-N	6.22	132.88	122.87
3	U	456	GLY	C-N-CA	6.22	132.88	122.87
3	F	483	GLY	CA-C-N	6.22	133.25	122.56
3	F	483	GLY	C-N-CA	6.22	133.25	122.56
3	C	483	GLY	CA-C-N	6.21	133.25	122.56
3	C	483	GLY	C-N-CA	6.21	133.25	122.56
3	F	285	HIS	CA-CB-CG	6.21	120.01	113.80
3	R	155	GLY	CA-C-N	6.21	130.89	123.19
3	R	155	GLY	C-N-CA	6.21	130.89	123.19
3	R	483	GLY	CA-C-N	6.21	133.24	122.56
3	R	483	GLY	C-N-CA	6.21	133.24	122.56
3	U	483	GLY	CA-C-N	6.21	133.24	122.56
3	U	483	GLY	C-N-CA	6.21	133.24	122.56
3	I	155	GLY	CA-C-N	6.21	130.89	123.19
3	I	155	GLY	C-N-CA	6.21	130.89	123.19
3	4	483	GLY	CA-C-N	6.21	133.24	122.56
3	4	483	GLY	C-N-CA	6.21	133.24	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	483	GLY	CA-C-N	6.21	133.24	122.56
3	7	483	GLY	C-N-CA	6.21	133.24	122.56
3	Y	285	HIS	CA-CB-CG	6.21	120.01	113.80
3	O	483	GLY	CA-C-N	6.21	133.23	122.56
3	O	483	GLY	C-N-CA	6.21	133.23	122.56
3	V	483	GLY	CA-C-N	6.20	133.23	122.56
3	V	483	GLY	C-N-CA	6.20	133.23	122.56
3	4	155	GLY	CA-C-N	6.20	130.88	123.19
3	4	155	GLY	C-N-CA	6.20	130.88	123.19
3	C	155	GLY	CA-C-N	6.20	130.88	123.19
3	C	155	GLY	C-N-CA	6.20	130.88	123.19
3	V	155	GLY	CA-C-N	6.20	130.88	123.19
3	V	155	GLY	C-N-CA	6.20	130.88	123.19
3	4	452	VAL	CA-C-N	6.20	130.84	122.90
3	4	452	VAL	C-N-CA	6.20	130.84	122.90
3	4	285	HIS	CA-CB-CG	6.20	120.00	113.80
3	F	456	GLY	CA-C-N	6.20	132.84	122.87
3	F	456	GLY	C-N-CA	6.20	132.84	122.87
3	V	285	HIS	CA-CB-CG	6.20	120.00	113.80
3	7	155	GLY	CA-C-N	6.20	130.87	123.19
3	7	155	GLY	C-N-CA	6.20	130.87	123.19
3	L	456	GLY	CA-C-N	6.19	132.84	122.87
3	L	456	GLY	C-N-CA	6.19	132.84	122.87
3	7	497	VAL	N-CA-C	6.19	117.63	108.65
3	4	497	VAL	N-CA-C	6.19	117.62	108.65
3	C	285	HIS	CA-CB-CG	6.18	119.98	113.80
3	O	155	GLY	CA-C-N	6.18	130.86	123.19
3	O	155	GLY	C-N-CA	6.18	130.86	123.19
3	R	456	GLY	CA-C-N	6.18	132.83	122.87
3	R	456	GLY	C-N-CA	6.18	132.83	122.87
3	1	155	GLY	CA-C-N	6.18	130.86	123.19
3	1	155	GLY	C-N-CA	6.18	130.86	123.19
3	1	285	HIS	CA-CB-CG	6.18	119.98	113.80
3	O	497	VAL	N-CA-C	6.18	117.61	108.65
3	V	497	VAL	N-CA-C	6.18	117.61	108.65
3	L	525	ILE	CB-CG1-CD1	6.18	126.77	113.80
3	F	497	VAL	N-CA-C	6.18	117.60	108.65
3	I	497	VAL	N-CA-C	6.18	117.61	108.65
3	Y	155	GLY	CA-C-N	6.18	130.85	123.19
3	Y	155	GLY	C-N-CA	6.18	130.85	123.19
3	U	285	HIS	CA-CB-CG	6.18	119.98	113.80
3	O	456	GLY	CA-C-N	6.17	132.81	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	456	GLY	C-N-CA	6.17	132.81	122.87
3	O	525	ILE	CB-CG1-CD1	6.17	126.76	113.80
3	C	497	VAL	N-CA-C	6.17	117.60	108.65
3	U	497	VAL	N-CA-C	6.17	117.60	108.65
3	F	155	GLY	CA-C-N	6.17	130.84	123.19
3	F	155	GLY	C-N-CA	6.17	130.84	123.19
3	I	285	HIS	CA-CB-CG	6.17	119.97	113.80
3	I	452	VAL	CA-C-N	6.17	130.80	122.90
3	I	452	VAL	C-N-CA	6.17	130.80	122.90
3	1	161	GLY	N-CA-C	6.17	118.91	110.58
3	L	497	VAL	N-CA-C	6.17	117.59	108.65
3	L	285	HIS	CA-CB-CG	6.17	119.97	113.80
3	V	525	ILE	CB-CG1-CD1	6.17	126.75	113.80
3	7	161	GLY	N-CA-C	6.17	118.91	110.58
3	7	525	ILE	CB-CG1-CD1	6.17	126.75	113.80
3	F	452	VAL	CA-C-N	6.17	130.79	122.90
3	F	452	VAL	C-N-CA	6.17	130.79	122.90
3	R	183	ARG	CA-C-N	6.17	128.46	120.44
3	R	183	ARG	C-N-CA	6.17	128.46	120.44
1	G	12	MET	N-CA-CB	6.16	119.18	110.12
3	R	161	GLY	N-CA-C	6.16	118.90	110.58
3	1	497	VAL	N-CA-C	6.16	117.58	108.65
1	S	12	MET	N-CA-CB	6.16	119.18	110.12
3	7	285	HIS	CA-CB-CG	6.16	119.96	113.80
3	I	183	ARG	CA-C-N	6.16	128.44	120.44
3	I	183	ARG	C-N-CA	6.16	128.44	120.44
3	O	285	HIS	CA-CB-CG	6.16	119.96	113.80
3	R	497	VAL	N-CA-C	6.16	117.58	108.65
3	Y	161	GLY	N-CA-C	6.16	118.89	110.58
3	L	161	GLY	N-CA-C	6.16	118.89	110.58
3	R	285	HIS	CA-CB-CG	6.16	119.95	113.80
3	R	525	ILE	CB-CG1-CD1	6.16	126.72	113.80
3	Y	183	ARG	CA-C-N	6.16	128.44	120.44
3	Y	183	ARG	C-N-CA	6.16	128.44	120.44
3	I	525	ILE	CB-CG1-CD1	6.15	126.72	113.80
3	O	452	VAL	CA-C-N	6.15	130.78	122.90
3	O	452	VAL	C-N-CA	6.15	130.78	122.90
3	L	183	ARG	CA-C-N	6.15	128.44	120.44
3	L	183	ARG	C-N-CA	6.15	128.44	120.44
3	Y	497	VAL	N-CA-C	6.15	117.57	108.65
3	U	161	GLY	N-CA-C	6.15	118.89	110.58
3	4	525	ILE	CB-CG1-CD1	6.15	126.72	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	12	MET	N-CA-CB	6.15	119.16	110.12
1	J	12	MET	N-CA-CB	6.15	119.16	110.12
3	1	129	LEU	CA-C-N	6.15	130.81	123.19
3	1	129	LEU	C-N-CA	6.15	130.81	123.19
3	7	183	ARG	CA-C-N	6.15	128.43	120.44
3	7	183	ARG	C-N-CA	6.15	128.43	120.44
3	7	452	VAL	CA-C-N	6.15	130.77	122.90
3	7	452	VAL	C-N-CA	6.15	130.77	122.90
3	C	452	VAL	CA-C-N	6.15	130.77	122.90
3	C	452	VAL	C-N-CA	6.15	130.77	122.90
3	C	525	ILE	CB-CG1-CD1	6.15	126.71	113.80
3	F	525	ILE	CB-CG1-CD1	6.15	126.71	113.80
3	R	268	PHE	CA-CB-CG	6.15	119.95	113.80
3	V	129	LEU	CA-C-N	6.15	130.81	123.19
3	V	129	LEU	C-N-CA	6.15	130.81	123.19
3	U	525	ILE	CB-CG1-CD1	6.15	126.71	113.80
1	A	12	MET	N-CA-CB	6.14	119.15	110.12
3	C	161	GLY	N-CA-C	6.14	118.87	110.58
3	F	161	GLY	N-CA-C	6.14	118.87	110.58
3	Y	525	ILE	CB-CG1-CD1	6.14	126.70	113.80
1	Z	12	MET	N-CA-CB	6.14	119.15	110.12
3	1	452	VAL	CA-C-N	6.14	130.76	122.90
3	1	452	VAL	C-N-CA	6.14	130.76	122.90
3	V	161	GLY	N-CA-C	6.14	118.87	110.58
3	1	462	ALA	CA-C-N	6.14	132.19	122.74
3	1	462	ALA	C-N-CA	6.14	132.19	122.74
3	V	183	ARG	CA-C-N	6.14	128.42	120.44
3	V	183	ARG	C-N-CA	6.14	128.42	120.44
3	C	183	ARG	CA-C-N	6.14	128.42	120.44
3	C	183	ARG	C-N-CA	6.14	128.42	120.44
3	F	55[A]	MET	CA-C-N	6.14	127.81	120.14
3	F	55[A]	MET	C-N-CA	6.14	127.81	120.14
3	F	55[B]	MET	CA-C-N	6.14	127.81	120.14
3	F	55[B]	MET	C-N-CA	6.14	127.81	120.14
3	V	452	VAL	CA-C-N	6.14	130.75	122.90
3	V	452	VAL	C-N-CA	6.14	130.75	122.90
1	W	12	MET	N-CA-CB	6.14	119.14	110.12
3	Y	129	LEU	CA-C-N	6.14	130.80	123.19
3	Y	129	LEU	C-N-CA	6.14	130.80	123.19
3	1	525	ILE	CB-CG1-CD1	6.14	126.69	113.80
3	U	268	PHE	CA-CB-CG	6.14	119.94	113.80
3	I	161	GLY	N-CA-C	6.13	118.86	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	183	ARG	CA-C-N	6.13	128.41	120.44
3	U	183	ARG	C-N-CA	6.13	128.41	120.44
3	R	452	VAL	CA-C-N	6.13	130.75	122.90
3	R	452	VAL	C-N-CA	6.13	130.75	122.90
3	1	268	PHE	CA-CB-CG	6.13	119.93	113.80
1	D	12	MET	N-CA-CB	6.13	119.13	110.12
3	O	161	GLY	N-CA-C	6.13	118.86	110.58
3	Y	268	PHE	CA-CB-CG	6.13	119.93	113.80
3	4	161	GLY	N-CA-C	6.13	118.86	110.58
3	4	183	ARG	CA-C-N	6.13	128.41	120.44
3	4	183	ARG	C-N-CA	6.13	128.41	120.44
3	U	129	LEU	CA-C-N	6.13	130.79	123.19
3	U	129	LEU	C-N-CA	6.13	130.79	123.19
3	I	268	PHE	CA-CB-CG	6.13	119.93	113.80
3	O	183	ARG	CA-C-N	6.13	128.40	120.44
3	O	183	ARG	C-N-CA	6.13	128.40	120.44
3	I	462	ALA	CA-C-N	6.12	132.17	122.74
3	I	462	ALA	C-N-CA	6.12	132.17	122.74
3	L	129	LEU	CA-C-N	6.12	130.78	123.19
3	L	129	LEU	C-N-CA	6.12	130.78	123.19
1	M	12	MET	N-CA-CB	6.12	119.12	110.12
3	Y	452	VAL	CA-C-N	6.12	130.74	122.90
3	Y	452	VAL	C-N-CA	6.12	130.74	122.90
3	I	129	LEU	CA-C-N	6.12	130.78	123.19
3	I	129	LEU	C-N-CA	6.12	130.78	123.19
3	C	268	PHE	CA-CB-CG	6.12	119.92	113.80
3	F	268	PHE	CA-CB-CG	6.12	119.92	113.80
3	O	268	PHE	CA-CB-CG	6.12	119.92	113.80
3	O	462	ALA	CA-C-N	6.12	132.17	122.74
3	O	462	ALA	C-N-CA	6.12	132.17	122.74
1	P	12	MET	N-CA-CB	6.12	119.12	110.12
3	7	268	PHE	CA-CB-CG	6.12	119.92	113.80
3	U	55[A]	MET	CA-C-N	6.12	127.79	120.14
3	U	55[A]	MET	C-N-CA	6.12	127.79	120.14
3	U	55[B]	MET	CA-C-N	6.12	127.79	120.14
3	U	55[B]	MET	C-N-CA	6.12	127.79	120.14
3	U	452	VAL	CA-C-N	6.12	130.74	122.90
3	U	452	VAL	C-N-CA	6.12	130.74	122.90
1	2	12	MET	N-CA-CB	6.12	119.12	110.12
3	4	268	PHE	CA-CB-CG	6.12	119.92	113.80
3	F	462	ALA	CA-C-N	6.12	132.16	122.74
3	F	462	ALA	C-N-CA	6.12	132.16	122.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	268	PHE	CA-CB-CG	6.12	119.92	113.80
3	L	462	ALA	CA-C-N	6.12	132.16	122.74
3	L	462	ALA	C-N-CA	6.12	132.16	122.74
3	Y	55[A]	MET	CA-C-N	6.12	127.79	120.14
3	Y	55[A]	MET	C-N-CA	6.12	127.79	120.14
3	Y	55[B]	MET	CA-C-N	6.12	127.79	120.14
3	Y	55[B]	MET	C-N-CA	6.12	127.79	120.14
3	U	462	ALA	CA-C-N	6.12	132.16	122.74
3	U	462	ALA	C-N-CA	6.12	132.16	122.74
3	C	129	LEU	CA-C-N	6.12	130.77	123.19
3	C	129	LEU	C-N-CA	6.12	130.77	123.19
3	F	129	LEU	CA-C-N	6.12	130.77	123.19
3	F	129	LEU	C-N-CA	6.12	130.77	123.19
3	L	452	VAL	CA-C-N	6.11	130.73	122.90
3	L	452	VAL	C-N-CA	6.11	130.73	122.90
3	O	55[A]	MET	CA-C-N	6.11	127.78	120.14
3	O	55[A]	MET	C-N-CA	6.11	127.78	120.14
3	O	55[B]	MET	CA-C-N	6.11	127.78	120.14
3	O	55[B]	MET	C-N-CA	6.11	127.78	120.14
3	R	129	LEU	CA-C-N	6.11	130.76	123.19
3	R	129	LEU	C-N-CA	6.11	130.76	123.19
3	I	55[A]	MET	CA-C-N	6.11	127.77	120.14
3	I	55[A]	MET	C-N-CA	6.11	127.77	120.14
3	I	55[B]	MET	CA-C-N	6.11	127.77	120.14
3	I	55[B]	MET	C-N-CA	6.11	127.77	120.14
3	R	55[A]	MET	CA-C-N	6.11	127.77	120.14
3	R	55[A]	MET	C-N-CA	6.11	127.77	120.14
3	R	55[B]	MET	CA-C-N	6.11	127.77	120.14
3	R	55[B]	MET	C-N-CA	6.11	127.77	120.14
3	1	183	ARG	CA-C-N	6.11	128.38	120.44
3	1	183	ARG	C-N-CA	6.11	128.38	120.44
3	7	462	ALA	CA-C-N	6.11	132.14	122.74
3	7	462	ALA	C-N-CA	6.11	132.14	122.74
1	8	12	MET	N-CA-CB	6.11	119.10	110.12
3	C	55[A]	MET	CA-C-N	6.10	127.77	120.14
3	C	55[A]	MET	C-N-CA	6.10	127.77	120.14
3	C	55[B]	MET	CA-C-N	6.10	127.77	120.14
3	C	55[B]	MET	C-N-CA	6.10	127.77	120.14
3	O	129	LEU	CA-C-N	6.10	130.76	123.19
3	O	129	LEU	C-N-CA	6.10	130.76	123.19
3	F	183	ARG	CA-C-N	6.10	128.37	120.44
3	F	183	ARG	C-N-CA	6.10	128.37	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	55[A]	MET	CA-C-N	6.10	127.76	120.14
3	L	55[A]	MET	C-N-CA	6.10	127.76	120.14
3	L	55[B]	MET	CA-C-N	6.10	127.76	120.14
3	L	55[B]	MET	C-N-CA	6.10	127.76	120.14
3	7	129	LEU	CA-C-N	6.10	130.75	123.19
3	7	129	LEU	C-N-CA	6.10	130.75	123.19
3	C	462	ALA	CA-C-N	6.10	132.13	122.74
3	C	462	ALA	C-N-CA	6.10	132.13	122.74
3	I	127	GLU	CB-CG-CD	6.09	122.95	112.60
3	R	462	ALA	CA-C-N	6.09	132.12	122.74
3	R	462	ALA	C-N-CA	6.09	132.12	122.74
3	4	55[A]	MET	CA-C-N	6.09	127.75	120.14
3	4	55[A]	MET	C-N-CA	6.09	127.75	120.14
3	4	55[B]	MET	CA-C-N	6.09	127.75	120.14
3	4	55[B]	MET	C-N-CA	6.09	127.75	120.14
3	4	462	ALA	CA-C-N	6.09	132.12	122.74
3	4	462	ALA	C-N-CA	6.09	132.12	122.74
3	F	127	GLU	CB-CG-CD	6.09	122.95	112.60
3	V	462	ALA	CA-C-N	6.09	132.12	122.74
3	V	462	ALA	C-N-CA	6.09	132.12	122.74
3	V	127	GLU	CB-CG-CD	6.08	122.94	112.60
3	U	221	TYR	CA-CB-CG	6.08	124.85	113.90
3	Y	127	GLU	CB-CG-CD	6.08	122.93	112.60
3	I	98	GLY	CA-C-N	6.08	132.00	122.70
3	I	98	GLY	C-N-CA	6.08	132.00	122.70
3	V	55[A]	MET	CA-C-N	6.08	127.73	120.14
3	V	55[A]	MET	C-N-CA	6.08	127.73	120.14
3	V	55[B]	MET	CA-C-N	6.08	127.73	120.14
3	V	55[B]	MET	C-N-CA	6.08	127.73	120.14
3	1	55[A]	MET	CA-C-N	6.08	127.73	120.14
3	1	55[A]	MET	C-N-CA	6.08	127.73	120.14
3	1	55[B]	MET	CA-C-N	6.08	127.73	120.14
3	1	55[B]	MET	C-N-CA	6.08	127.73	120.14
3	7	127	GLU	CB-CG-CD	6.08	122.93	112.60
3	R	221	TYR	CA-CB-CG	6.07	124.83	113.90
3	Y	462	ALA	CA-C-N	6.07	132.09	122.74
3	Y	462	ALA	C-N-CA	6.07	132.09	122.74
3	F	221	TYR	CA-CB-CG	6.07	124.83	113.90
3	4	129	LEU	CA-C-N	6.07	130.72	123.19
3	4	129	LEU	C-N-CA	6.07	130.72	123.19
3	Y	98	GLY	CA-C-N	6.07	131.99	122.70
3	Y	98	GLY	C-N-CA	6.07	131.99	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	55[A]	MET	CA-C-N	6.07	127.73	120.14
3	7	55[A]	MET	C-N-CA	6.07	127.73	120.14
3	7	55[B]	MET	CA-C-N	6.07	127.73	120.14
3	7	55[B]	MET	C-N-CA	6.07	127.73	120.14
3	V	268	PHE	CA-CB-CG	6.07	119.87	113.80
3	1	221	TYR	CA-CB-CG	6.07	124.82	113.90
3	4	221	TYR	CA-CB-CG	6.06	124.81	113.90
3	O	221	TYR	CA-CB-CG	6.06	124.81	113.90
3	R	21[A]	ILE	CA-C-N	6.06	129.44	120.95
3	R	21[A]	ILE	C-N-CA	6.06	129.44	120.95
3	R	21[B]	ILE	CA-C-N	6.06	129.44	120.95
3	R	21[B]	ILE	C-N-CA	6.06	129.44	120.95
3	4	127	GLU	CB-CG-CD	6.06	122.91	112.60
3	U	127	GLU	CB-CG-CD	6.06	122.91	112.60
3	F	98	GLY	CA-C-N	6.06	131.97	122.70
3	F	98	GLY	C-N-CA	6.06	131.97	122.70
3	C	127	GLU	CB-CG-CD	6.06	122.90	112.60
3	O	127	GLU	CB-CG-CD	6.06	122.90	112.60
3	V	21[A]	ILE	CA-C-N	6.06	129.43	120.95
3	V	21[A]	ILE	C-N-CA	6.06	129.43	120.95
3	V	21[B]	ILE	CA-C-N	6.06	129.43	120.95
3	V	21[B]	ILE	C-N-CA	6.06	129.43	120.95
3	C	221	TYR	CA-CB-CG	6.06	124.80	113.90
3	L	127	GLU	CB-CG-CD	6.06	122.90	112.60
3	V	98	GLY	CA-C-N	6.05	131.96	122.70
3	V	98	GLY	C-N-CA	6.05	131.96	122.70
3	1	127	GLU	CB-CG-CD	6.05	122.89	112.60
3	U	98	GLY	CA-C-N	6.05	131.96	122.70
3	U	98	GLY	C-N-CA	6.05	131.96	122.70
3	C	98	GLY	CA-C-N	6.05	131.96	122.70
3	C	98	GLY	C-N-CA	6.05	131.96	122.70
3	U	123	ALA	N-CA-C	6.05	119.35	109.06
3	C	179	PRO	CB-CA-C	6.05	123.16	112.64
3	4	98	GLY	CA-C-N	6.05	131.95	122.70
3	4	98	GLY	C-N-CA	6.05	131.95	122.70
3	R	127	GLU	CB-CG-CD	6.04	122.88	112.60
3	F	248	VAL	CA-C-N	6.04	132.59	122.87
3	F	248	VAL	C-N-CA	6.04	132.59	122.87
3	I	221	TYR	CA-CB-CG	6.04	124.77	113.90
3	L	221	TYR	CA-CB-CG	6.04	124.77	113.90
3	4	21[A]	ILE	CA-C-N	6.04	129.41	120.95
3	4	21[A]	ILE	C-N-CA	6.04	129.41	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	21[B]	ILE	CA-C-N	6.04	129.41	120.95
3	4	21[B]	ILE	C-N-CA	6.04	129.41	120.95
3	U	361	MET	N-CA-C	6.04	119.08	108.75
3	V	361	MET	N-CA-C	6.04	119.08	108.75
3	Y	248	VAL	CA-C-N	6.04	132.59	122.87
3	Y	248	VAL	C-N-CA	6.04	132.59	122.87
3	7	98	GLY	CA-C-N	6.04	131.94	122.70
3	7	98	GLY	C-N-CA	6.04	131.94	122.70
3	7	221	TYR	CA-CB-CG	6.04	124.77	113.90
3	U	478	TYR	CA-C-N	6.04	135.89	122.67
3	U	478	TYR	C-N-CA	6.04	135.89	122.67
3	O	21[A]	ILE	CA-C-N	6.04	129.40	120.95
3	O	21[A]	ILE	C-N-CA	6.04	129.40	120.95
3	O	21[B]	ILE	CA-C-N	6.04	129.40	120.95
3	O	21[B]	ILE	C-N-CA	6.04	129.40	120.95
3	V	221	TYR	CA-CB-CG	6.04	124.77	113.90
3	F	123	ALA	N-CA-C	6.04	119.32	109.06
3	L	123	ALA	N-CA-C	6.04	119.32	109.06
2	0	115	LEU	CA-C-N	6.04	130.19	121.68
2	0	115	LEU	C-N-CA	6.04	130.19	121.68
3	7	123	ALA	N-CA-C	6.03	119.32	109.06
3	V	123	ALA	N-CA-C	6.03	119.31	109.06
3	O	422	VAL	N-CA-C	6.03	121.88	109.34
3	R	98	GLY	CA-C-N	6.03	131.93	122.70
3	R	98	GLY	C-N-CA	6.03	131.93	122.70
3	V	478	TYR	CA-C-N	6.03	135.88	122.67
3	V	478	TYR	C-N-CA	6.03	135.88	122.67
3	Y	221	TYR	CA-CB-CG	6.03	124.76	113.90
3	7	248	VAL	CA-C-N	6.03	132.58	122.87
3	7	248	VAL	C-N-CA	6.03	132.58	122.87
3	I	248	VAL	CA-C-N	6.03	132.57	122.87
3	I	248	VAL	C-N-CA	6.03	132.57	122.87
3	Y	478	TYR	CA-C-N	6.03	135.87	122.67
3	Y	478	TYR	C-N-CA	6.03	135.87	122.67
3	4	248	VAL	CA-C-N	6.03	132.57	122.87
3	4	248	VAL	C-N-CA	6.03	132.57	122.87
3	L	98	GLY	CA-C-N	6.03	131.92	122.70
3	L	98	GLY	C-N-CA	6.03	131.92	122.70
3	R	123	ALA	N-CA-C	6.03	119.30	109.06
3	1	98	GLY	CA-C-N	6.03	131.92	122.70
3	1	98	GLY	C-N-CA	6.03	131.92	122.70
3	1	478	TYR	CA-C-N	6.03	135.86	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	478	TYR	C-N-CA	6.03	135.86	122.67
3	4	478	TYR	CA-C-N	6.03	135.87	122.67
3	4	478	TYR	C-N-CA	6.03	135.87	122.67
3	7	478	TYR	CA-C-N	6.03	135.86	122.67
3	7	478	TYR	C-N-CA	6.03	135.86	122.67
3	U	422	VAL	N-CA-C	6.03	121.87	109.34
3	O	361	MET	N-CA-C	6.02	119.05	108.75
3	C	21[A]	ILE	CA-C-N	6.02	129.38	120.95
3	C	21[A]	ILE	C-N-CA	6.02	129.38	120.95
3	C	21[B]	ILE	CA-C-N	6.02	129.38	120.95
3	C	21[B]	ILE	C-N-CA	6.02	129.38	120.95
3	C	478	TYR	CA-C-N	6.02	135.86	122.67
3	C	478	TYR	C-N-CA	6.02	135.86	122.67
3	I	478	TYR	CA-C-N	6.02	135.86	122.67
3	I	478	TYR	C-N-CA	6.02	135.86	122.67
3	L	478	TYR	CA-C-N	6.02	135.86	122.67
3	L	478	TYR	C-N-CA	6.02	135.86	122.67
3	Y	361	MET	N-CA-C	6.02	119.05	108.75
3	O	248	VAL	CA-C-N	6.02	132.56	122.87
3	O	248	VAL	C-N-CA	6.02	132.56	122.87
3	R	478	TYR	CA-C-N	6.02	135.85	122.67
3	R	478	TYR	C-N-CA	6.02	135.85	122.67
2	T	115	LEU	CA-C-N	6.02	130.17	121.68
2	T	115	LEU	C-N-CA	6.02	130.17	121.68
3	1	21[A]	ILE	CA-C-N	6.02	129.38	120.95
3	1	21[A]	ILE	C-N-CA	6.02	129.38	120.95
3	1	21[B]	ILE	CA-C-N	6.02	129.38	120.95
3	1	21[B]	ILE	C-N-CA	6.02	129.38	120.95
3	C	123	ALA	N-CA-C	6.02	119.29	109.06
3	O	478	TYR	CA-C-N	6.02	135.85	122.67
3	O	478	TYR	C-N-CA	6.02	135.85	122.67
2	Q	115	LEU	CA-C-N	6.02	130.16	121.68
2	Q	115	LEU	C-N-CA	6.02	130.16	121.68
3	Y	21[A]	ILE	CA-C-N	6.02	129.38	120.95
3	Y	21[A]	ILE	C-N-CA	6.02	129.38	120.95
3	Y	21[B]	ILE	CA-C-N	6.02	129.38	120.95
3	Y	21[B]	ILE	C-N-CA	6.02	129.38	120.95
3	4	361	MET	N-CA-C	6.02	119.04	108.75
3	7	361	MET	N-CA-C	6.02	119.04	108.75
3	C	248	VAL	CA-C-N	6.01	132.56	122.87
3	C	248	VAL	C-N-CA	6.01	132.56	122.87
3	C	361	MET	N-CA-C	6.01	119.04	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	21[A]	ILE	CA-C-N	6.01	129.37	120.95
3	L	21[A]	ILE	C-N-CA	6.01	129.37	120.95
3	L	21[B]	ILE	CA-C-N	6.01	129.37	120.95
3	L	21[B]	ILE	C-N-CA	6.01	129.37	120.95
3	L	248	VAL	CA-C-N	6.01	132.55	122.87
3	L	248	VAL	C-N-CA	6.01	132.55	122.87
3	L	361	MET	N-CA-C	6.01	119.04	108.75
3	O	123	ALA	N-CA-C	6.01	119.28	109.06
3	R	248	VAL	CA-C-N	6.01	132.55	122.87
3	R	248	VAL	C-N-CA	6.01	132.55	122.87
3	I	361	MET	N-CA-C	6.01	119.03	108.75
3	L	422	VAL	N-CA-C	6.01	121.85	109.34
3	O	98	GLY	CA-C-N	6.01	131.90	122.70
3	O	98	GLY	C-N-CA	6.01	131.90	122.70
3	I	422	VAL	N-CA-C	6.01	121.84	109.34
3	Y	123	ALA	N-CA-C	6.01	119.28	109.06
3	1	248	VAL	CA-C-N	6.01	132.55	122.87
3	1	248	VAL	C-N-CA	6.01	132.55	122.87
3	V	422	VAL	N-CA-C	6.01	121.84	109.34
3	Y	422	VAL	N-CA-C	6.01	121.84	109.34
3	1	361	MET	N-CA-C	6.01	119.03	108.75
3	4	422	VAL	N-CA-C	6.01	121.84	109.34
3	7	422	VAL	N-CA-C	6.01	121.84	109.34
3	F	155	GLY	N-CA-C	6.01	124.33	115.08
3	1	422	VAL	N-CA-C	6.01	121.84	109.34
2	B	115	LEU	CA-C-N	6.01	130.15	121.68
2	B	115	LEU	C-N-CA	6.01	130.15	121.68
3	F	422	VAL	N-CA-C	6.01	121.83	109.34
3	I	123	ALA	N-CA-C	6.01	119.27	109.06
3	1	123	ALA	N-CA-C	6.01	119.27	109.06
3	1	155	GLY	N-CA-C	6.01	124.33	115.08
3	C	422	VAL	N-CA-C	6.00	121.83	109.34
3	I	21[A]	ILE	CA-C-N	6.00	129.36	120.95
3	I	21[A]	ILE	C-N-CA	6.00	129.36	120.95
3	I	21[B]	ILE	CA-C-N	6.00	129.36	120.95
3	I	21[B]	ILE	C-N-CA	6.00	129.36	120.95
3	F	478	TYR	CA-C-N	6.00	135.82	122.67
3	F	478	TYR	C-N-CA	6.00	135.82	122.67
3	O	155	GLY	N-CA-C	6.00	124.33	115.08
3	R	361	MET	N-CA-C	6.00	119.02	108.75
3	7	21[A]	ILE	CA-C-N	6.00	129.35	120.95
3	7	21[A]	ILE	C-N-CA	6.00	129.35	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	21[B]	ILE	CA-C-N	6.00	129.35	120.95
3	7	21[B]	ILE	C-N-CA	6.00	129.35	120.95
3	Y	155	GLY	N-CA-C	6.00	124.32	115.08
2	3	115	LEU	CA-C-N	6.00	130.14	121.68
2	3	115	LEU	C-N-CA	6.00	130.14	121.68
3	4	123	ALA	N-CA-C	6.00	119.26	109.06
3	I	155	GLY	N-CA-C	6.00	124.32	115.08
3	V	248	VAL	CA-C-N	6.00	132.52	122.87
3	V	248	VAL	C-N-CA	6.00	132.52	122.87
3	F	361	MET	N-CA-C	5.99	119.00	108.75
3	V	155	GLY	N-CA-C	5.99	124.31	115.08
3	R	155	GLY	N-CA-C	5.99	124.31	115.08
3	R	422	VAL	N-CA-C	5.99	121.80	109.34
3	U	155	GLY	N-CA-C	5.99	124.31	115.08
3	C	155	GLY	N-CA-C	5.99	124.31	115.08
2	6	94	ARG	CA-CB-CG	5.99	126.08	114.10
2	6	115	LEU	CA-C-N	5.99	130.12	121.68
2	6	115	LEU	C-N-CA	5.99	130.12	121.68
3	U	248	VAL	CA-C-N	5.99	132.52	122.87
3	U	248	VAL	C-N-CA	5.99	132.52	122.87
3	U	21[A]	ILE	CA-C-N	5.99	129.33	120.95
3	U	21[A]	ILE	C-N-CA	5.99	129.33	120.95
3	U	21[B]	ILE	CA-C-N	5.99	129.33	120.95
3	U	21[B]	ILE	C-N-CA	5.99	129.33	120.95
3	F	21[A]	ILE	CA-C-N	5.99	129.33	120.95
3	F	21[A]	ILE	C-N-CA	5.99	129.33	120.95
3	F	21[B]	ILE	CA-C-N	5.99	129.33	120.95
3	F	21[B]	ILE	C-N-CA	5.99	129.33	120.95
3	C	211	LEU	CA-C-N	5.98	129.79	120.82
3	C	211	LEU	C-N-CA	5.98	129.79	120.82
3	L	155	GLY	N-CA-C	5.98	124.29	115.08
2	N	115	LEU	CA-C-N	5.98	130.12	121.68
2	N	115	LEU	C-N-CA	5.98	130.12	121.68
2	K	94	ARG	CA-CB-CG	5.98	126.06	114.10
2	N	94	ARG	CA-CB-CG	5.98	126.06	114.10
3	F	308	PRO	CA-N-CD	-5.98	103.13	111.50
3	I	308	PRO	CA-N-CD	-5.98	103.13	111.50
3	7	155	GLY	N-CA-C	5.98	124.28	115.08
2	H	115	LEU	CA-C-N	5.97	130.10	121.68
2	H	115	LEU	C-N-CA	5.97	130.10	121.68
3	V	308	PRO	CA-N-CD	-5.97	103.14	111.50
3	V	308	PRO	CB-CG-CD	5.97	119.14	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	115	LEU	CA-C-N	5.97	130.10	121.68
2	E	115	LEU	C-N-CA	5.97	130.10	121.68
2	X	94	ARG	CA-CB-CG	5.97	126.04	114.10
2	9	115	LEU	CA-C-N	5.97	130.10	121.68
2	9	115	LEU	C-N-CA	5.97	130.10	121.68
3	I	308	PRO	CB-CG-CD	5.97	119.13	105.40
3	R	57	ALA	CA-C-N	5.97	129.19	120.71
3	R	57	ALA	C-N-CA	5.97	129.19	120.71
3	4	155	GLY	N-CA-C	5.97	124.27	115.08
2	X	115	LEU	CA-C-N	5.97	130.09	121.68
2	X	115	LEU	C-N-CA	5.97	130.09	121.68
3	U	308	PRO	CB-CG-CD	5.97	119.12	105.40
3	L	308	PRO	CB-CG-CD	5.96	119.12	105.40
3	4	308	PRO	CB-CG-CD	5.96	119.12	105.40
3	O	308	PRO	CB-CG-CD	5.96	119.12	105.40
2	3	94	ARG	CA-CB-CG	5.96	126.03	114.10
2	B	94	ARG	CA-CB-CG	5.96	126.03	114.10
2	E	94	ARG	CA-CB-CG	5.96	126.03	114.10
2	K	115	LEU	CA-C-N	5.96	130.09	121.68
2	K	115	LEU	C-N-CA	5.96	130.09	121.68
1	Z	97	ASP	CB-CA-C	5.96	116.19	111.00
1	J	97	ASP	CB-CA-C	5.96	116.18	111.00
3	Y	308	PRO	CB-CG-CD	5.96	119.11	105.40
2	0	94	ARG	CA-CB-CG	5.96	126.02	114.10
3	1	408	TYR	CA-C-N	5.96	128.62	120.46
3	1	408	TYR	C-N-CA	5.96	128.62	120.46
1	S	97	ASP	CB-CA-C	5.96	116.18	111.00
3	7	308	PRO	CB-CG-CD	5.96	119.10	105.40
2	9	94	ARG	CA-CB-CG	5.96	126.01	114.10
3	F	57	ALA	CA-C-N	5.96	129.17	120.71
3	F	57	ALA	C-N-CA	5.96	129.17	120.71
3	C	308	PRO	CA-N-CD	-5.95	103.17	111.50
3	C	308	PRO	CB-CG-CD	5.95	119.09	105.40
3	F	408	TYR	CA-C-N	5.95	128.62	120.46
3	F	408	TYR	C-N-CA	5.95	128.62	120.46
3	1	308	PRO	CB-CG-CD	5.95	119.09	105.40
2	T	94	ARG	CA-CB-CG	5.95	126.00	114.10
2	H	94	ARG	CA-CB-CG	5.95	125.99	114.10
3	Y	57	ALA	CA-C-N	5.95	129.15	120.71
3	Y	57	ALA	C-N-CA	5.95	129.15	120.71
3	1	57	ALA	CA-C-N	5.95	129.16	120.71
3	1	57	ALA	C-N-CA	5.95	129.16	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	308	PRO	CA-N-CD	-5.95	103.17	111.50
1	M	97	ASP	CB-CA-C	5.95	116.17	111.00
3	F	308	PRO	CB-CG-CD	5.94	119.07	105.40
1	D	97	ASP	CB-CA-C	5.94	116.17	111.00
3	L	57	ALA	CA-C-N	5.94	129.15	120.71
3	L	57	ALA	C-N-CA	5.94	129.15	120.71
1	2	97	ASP	CB-CA-C	5.94	116.17	111.00
3	V	316	GLU	CB-CG-CD	5.94	122.69	112.60
3	Y	308	PRO	CA-N-CD	-5.94	103.19	111.50
3	C	57	ALA	CA-C-N	5.94	129.14	120.71
3	C	57	ALA	C-N-CA	5.94	129.14	120.71
3	4	316	GLU	CB-CG-CD	5.94	122.69	112.60
3	I	218	VAL	CA-C-N	5.93	130.93	122.09
3	I	218	VAL	C-N-CA	5.93	130.93	122.09
2	Q	94	ARG	CA-CB-CG	5.93	125.97	114.10
3	R	308	PRO	CB-CG-CD	5.93	119.05	105.40
3	V	424	HIS	CA-CB-CG	5.93	119.73	113.80
3	4	408	TYR	CA-C-N	5.93	128.59	120.46
3	4	408	TYR	C-N-CA	5.93	128.59	120.46
3	U	308	PRO	CA-N-CD	-5.93	103.19	111.50
3	I	408	TYR	CA-C-N	5.93	128.59	120.46
3	I	408	TYR	C-N-CA	5.93	128.59	120.46
3	7	308	PRO	CA-N-CD	-5.93	103.19	111.50
1	A	97	ASP	CB-CA-C	5.93	116.16	111.00
3	1	308	PRO	CA-N-CD	-5.93	103.20	111.50
3	C	316	GLU	CB-CG-CD	5.93	122.68	112.60
3	L	308	PRO	CA-N-CD	-5.93	103.20	111.50
3	O	408	TYR	CA-C-N	5.93	128.59	120.46
3	O	408	TYR	C-N-CA	5.93	128.59	120.46
3	I	57	ALA	CA-C-N	5.93	129.13	120.71
3	I	57	ALA	C-N-CA	5.93	129.13	120.71
3	R	316	GLU	CB-CG-CD	5.93	122.68	112.60
3	U	218	VAL	CA-C-N	5.93	130.92	122.09
3	U	218	VAL	C-N-CA	5.93	130.92	122.09
3	O	57	ALA	CA-C-N	5.93	129.13	120.71
3	O	57	ALA	C-N-CA	5.93	129.13	120.71
3	O	308	PRO	CA-N-CD	-5.93	103.20	111.50
3	R	308	PRO	CA-N-CD	-5.93	103.20	111.50
3	4	57	ALA	CA-C-N	5.93	129.12	120.71
3	4	57	ALA	C-N-CA	5.93	129.12	120.71
1	5	97	ASP	CB-CA-C	5.93	116.16	111.00
3	C	408	TYR	CA-C-N	5.92	128.58	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	408	TYR	C-N-CA	5.92	128.58	120.46
3	F	316	GLU	CB-CG-CD	5.92	122.67	112.60
3	7	218	VAL	CA-C-N	5.92	130.92	122.09
3	7	218	VAL	C-N-CA	5.92	130.92	122.09
3	U	273	ILE	N-CA-C	5.92	116.17	108.35
3	O	316	GLU	CB-CG-CD	5.92	122.67	112.60
3	U	316	GLU	CB-CG-CD	5.92	122.67	112.60
3	F	218	VAL	CA-C-N	5.92	130.91	122.09
3	F	218	VAL	C-N-CA	5.92	130.91	122.09
2	X	133	GLY	N-CA-C	5.92	127.21	113.18
3	7	316	GLU	CB-CG-CD	5.92	122.66	112.60
3	V	408	TYR	CA-C-N	5.92	128.56	120.46
3	V	408	TYR	C-N-CA	5.92	128.56	120.46
3	L	408	TYR	CA-C-N	5.91	128.56	120.46
3	L	408	TYR	C-N-CA	5.91	128.56	120.46
3	Y	218	VAL	CA-C-N	5.91	130.90	122.09
3	Y	218	VAL	C-N-CA	5.91	130.90	122.09
3	Y	408	TYR	CA-C-N	5.91	128.56	120.46
3	Y	408	TYR	C-N-CA	5.91	128.56	120.46
1	P	97	ASP	CB-CA-C	5.91	116.14	111.00
3	1	218	VAL	CA-C-N	5.91	130.90	122.09
3	1	218	VAL	C-N-CA	5.91	130.90	122.09
3	L	316	GLU	CB-CG-CD	5.91	122.64	112.60
3	7	408	TYR	CA-C-N	5.91	128.56	120.46
3	7	408	TYR	C-N-CA	5.91	128.56	120.46
3	U	81	ARG	CG-CD-NE	5.91	125.00	112.00
3	C	218	VAL	CA-C-N	5.91	130.89	122.09
3	C	218	VAL	C-N-CA	5.91	130.89	122.09
3	F	81	ARG	CG-CD-NE	5.91	124.99	112.00
2	K	133	GLY	N-CA-C	5.91	127.18	113.18
3	L	273	ILE	N-CA-C	5.91	116.14	108.35
3	V	57	ALA	CA-C-N	5.91	129.10	120.71
3	V	57	ALA	C-N-CA	5.91	129.10	120.71
3	7	81	ARG	CG-CD-NE	5.91	124.99	112.00
1	G	97	ASP	CB-CA-C	5.90	116.14	111.00
3	I	316	GLU	CB-CG-CD	5.90	122.64	112.60
3	U	57	ALA	CA-C-N	5.90	129.09	120.71
3	U	57	ALA	C-N-CA	5.90	129.09	120.71
3	C	81	ARG	CG-CD-NE	5.90	124.98	112.00
3	O	26	THR	CA-C-N	5.90	132.45	122.65
3	O	26	THR	C-N-CA	5.90	132.45	122.65
3	Y	81	ARG	CG-CD-NE	5.90	124.98	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	316	GLU	CB-CG-CD	5.90	122.63	112.60
3	C	26	THR	CA-C-N	5.90	132.44	122.65
3	C	26	THR	C-N-CA	5.90	132.44	122.65
2	N	133	GLY	N-CA-C	5.90	127.16	113.18
3	V	26	THR	CA-C-N	5.90	132.44	122.65
3	V	26	THR	C-N-CA	5.90	132.44	122.65
3	4	81	ARG	CG-CD-NE	5.90	124.98	112.00
3	Y	316	GLU	CB-CG-CD	5.90	122.63	112.60
3	Y	424	HIS	CA-CB-CG	5.90	119.70	113.80
2	9	133	GLY	N-CA-C	5.90	127.16	113.18
3	F	186	LEU	CA-C-N	5.90	128.18	120.28
3	F	186	LEU	C-N-CA	5.90	128.18	120.28
2	Q	133	GLY	N-CA-C	5.90	127.16	113.18
3	R	81	ARG	CG-CD-NE	5.90	124.97	112.00
3	V	81	ARG	CG-CD-NE	5.90	124.97	112.00
3	7	186	LEU	CA-C-N	5.90	128.18	120.28
3	7	186	LEU	C-N-CA	5.90	128.18	120.28
3	O	218	VAL	CA-C-N	5.90	130.87	122.09
3	O	218	VAL	C-N-CA	5.90	130.87	122.09
3	4	424	HIS	CA-CB-CG	5.90	119.70	113.80
3	7	57	ALA	CA-C-N	5.90	129.08	120.71
3	7	57	ALA	C-N-CA	5.90	129.08	120.71
2	B	133	GLY	N-CA-C	5.89	127.15	113.18
3	L	218	VAL	CA-C-N	5.89	130.87	122.09
3	L	218	VAL	C-N-CA	5.89	130.87	122.09
3	R	218	VAL	CA-C-N	5.89	130.87	122.09
3	R	218	VAL	C-N-CA	5.89	130.87	122.09
3	R	408	TYR	CA-C-N	5.89	128.54	120.46
3	R	408	TYR	C-N-CA	5.89	128.54	120.46
2	T	133	GLY	N-CA-C	5.89	127.15	113.18
3	F	273	ILE	N-CA-C	5.89	116.13	108.35
3	L	26	THR	CA-C-N	5.89	132.43	122.65
3	L	26	THR	C-N-CA	5.89	132.43	122.65
3	R	26	THR	CA-C-N	5.89	132.43	122.65
3	R	26	THR	C-N-CA	5.89	132.43	122.65
1	W	97	ASP	CB-CA-C	5.89	116.13	111.00
3	1	81	ARG	CG-CD-NE	5.89	124.96	112.00
2	E	133	GLY	N-CA-C	5.89	127.14	113.18
3	O	81	ARG	CG-CD-NE	5.89	124.95	112.00
3	V	273	ILE	N-CA-C	5.89	116.12	108.35
3	I	26	THR	CA-C-N	5.89	132.42	122.65
3	I	26	THR	C-N-CA	5.89	132.42	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	81	ARG	CG-CD-NE	5.89	124.95	112.00
3	R	273	ILE	N-CA-C	5.89	116.12	108.35
3	R	424	HIS	CA-CB-CG	5.89	119.69	113.80
3	4	26	THR	CA-C-N	5.89	132.42	122.65
3	4	26	THR	C-N-CA	5.89	132.42	122.65
3	L	81	ARG	CG-CD-NE	5.89	124.95	112.00
3	Y	26	THR	CA-C-N	5.89	132.42	122.65
3	Y	26	THR	C-N-CA	5.89	132.42	122.65
3	4	132	THR	CA-CB-OG1	5.89	118.43	109.60
3	4	218	VAL	CA-C-N	5.89	130.86	122.09
3	4	218	VAL	C-N-CA	5.89	130.86	122.09
2	H	133	GLY	N-CA-C	5.88	127.12	113.18
3	O	273	ILE	N-CA-C	5.88	116.12	108.35
3	Y	273	ILE	N-CA-C	5.88	116.12	108.35
2	3	133	GLY	N-CA-C	5.88	127.13	113.18
3	7	26	THR	CA-C-N	5.88	132.42	122.65
3	7	26	THR	C-N-CA	5.88	132.42	122.65
3	F	26	THR	CA-C-N	5.88	132.42	122.65
3	F	26	THR	C-N-CA	5.88	132.42	122.65
3	C	424	HIS	CA-CB-CG	5.88	119.68	113.80
3	V	218	VAL	CA-C-N	5.88	130.85	122.09
3	V	218	VAL	C-N-CA	5.88	130.85	122.09
3	4	119	VAL	CA-C-N	5.88	130.01	120.60
3	4	119	VAL	C-N-CA	5.88	130.01	120.60
3	U	408	TYR	CA-C-N	5.88	128.51	120.46
3	U	408	TYR	C-N-CA	5.88	128.51	120.46
3	C	273	ILE	N-CA-C	5.88	116.11	108.35
3	I	273	ILE	N-CA-C	5.88	116.11	108.35
2	6	133	GLY	N-CA-C	5.88	127.11	113.18
3	U	26	THR	CA-C-N	5.88	132.41	122.65
3	U	26	THR	C-N-CA	5.88	132.41	122.65
3	C	186	LEU	CA-C-N	5.88	128.15	120.28
3	C	186	LEU	C-N-CA	5.88	128.15	120.28
3	I	186	LEU	CA-C-N	5.88	128.15	120.28
3	I	186	LEU	C-N-CA	5.88	128.15	120.28
3	O	186	LEU	CA-C-N	5.88	128.15	120.28
3	O	186	LEU	C-N-CA	5.88	128.15	120.28
3	4	273	ILE	N-CA-C	5.88	116.11	108.35
3	V	186	LEU	CA-C-N	5.88	128.15	120.28
3	V	186	LEU	C-N-CA	5.88	128.15	120.28
2	0	133	GLY	N-CA-C	5.88	127.11	113.18
1	P	23	ARG	NE-CZ-NH1	-5.87	115.63	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	132	THR	CA-CB-OG1	5.87	118.41	109.60
3	1	26	THR	CA-C-N	5.87	132.40	122.65
3	1	26	THR	C-N-CA	5.87	132.40	122.65
3	1	186	LEU	CA-C-N	5.87	128.15	120.28
3	1	186	LEU	C-N-CA	5.87	128.15	120.28
3	L	278	THR	CA-C-N	5.87	128.15	120.28
3	L	278	THR	C-N-CA	5.87	128.15	120.28
3	R	186	LEU	CA-C-N	5.87	128.15	120.28
3	R	186	LEU	C-N-CA	5.87	128.15	120.28
3	Y	186	LEU	CA-C-N	5.87	128.15	120.28
3	Y	186	LEU	C-N-CA	5.87	128.15	120.28
1	5	23	ARG	NE-CZ-NH1	-5.87	115.63	121.50
1	8	97	ASP	CB-CA-C	5.87	116.11	111.00
3	U	186	LEU	CA-C-N	5.87	128.15	120.28
3	U	186	LEU	C-N-CA	5.87	128.15	120.28
1	W	23	ARG	NE-CZ-NH1	-5.87	115.63	121.50
3	O	424	HIS	CA-CB-CG	5.87	119.67	113.80
3	Y	278	THR	CA-C-N	5.87	128.14	120.28
3	Y	278	THR	C-N-CA	5.87	128.14	120.28
3	7	273	ILE	N-CA-C	5.87	116.09	108.35
3	I	509	LYS	CB-CG-CD	5.87	124.79	111.30
3	L	424	HIS	CA-CB-CG	5.87	119.67	113.80
3	U	37	ARG	CA-C-O	-5.87	114.42	121.34
3	U	132	THR	CA-CB-OG1	5.87	118.40	109.60
3	I	424	HIS	CA-CB-CG	5.86	119.66	113.80
3	L	119	VAL	CA-C-N	5.86	129.98	120.60
3	L	119	VAL	C-N-CA	5.86	129.98	120.60
1	S	23	ARG	NE-CZ-NH1	-5.86	115.64	121.50
3	7	132	THR	CA-CB-OG1	5.86	118.40	109.60
3	1	132	THR	CA-CB-OG1	5.86	118.39	109.60
3	1	273	ILE	N-CA-C	5.86	116.09	108.35
3	C	132	THR	CA-CB-OG1	5.86	118.39	109.60
3	V	509	LYS	CB-CG-CD	5.86	124.78	111.30
1	8	23	ARG	NE-CZ-NH1	-5.86	115.64	121.50
3	F	509	LYS	CB-CG-CD	5.86	124.78	111.30
3	O	37	ARG	CA-C-O	-5.86	114.43	121.34
3	V	85	ILE	CA-C-N	5.86	131.25	123.05
3	V	85	ILE	C-N-CA	5.86	131.25	123.05
1	D	23	ARG	NE-CZ-NH1	-5.86	115.64	121.50
3	L	186	LEU	CA-C-N	5.86	128.13	120.28
3	L	186	LEU	C-N-CA	5.86	128.13	120.28
3	O	119	VAL	CA-C-N	5.86	129.97	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	119	VAL	C-N-CA	5.86	129.97	120.60
3	4	509	LYS	CB-CG-CD	5.86	124.77	111.30
3	U	119	VAL	CA-C-N	5.86	129.97	120.60
3	U	119	VAL	C-N-CA	5.86	129.97	120.60
3	V	132	THR	CA-CB-OG1	5.85	118.38	109.60
3	1	119	VAL	CA-C-N	5.85	129.97	120.60
3	1	119	VAL	C-N-CA	5.85	129.97	120.60
3	1	509	LYS	CB-CG-CD	5.85	124.76	111.30
3	7	509	LYS	CB-CG-CD	5.85	124.76	111.30
1	J	23	ARG	NE-CZ-NH1	-5.85	115.65	121.50
3	1	278	THR	CA-C-N	5.85	128.12	120.28
3	1	278	THR	C-N-CA	5.85	128.12	120.28
1	2	23	ARG	NE-CZ-NH1	-5.85	115.65	121.50
3	C	509	LYS	CB-CG-CD	5.85	124.75	111.30
3	F	132	THR	CA-CB-OG1	5.85	118.37	109.60
3	L	132	THR	CA-CB-OG1	5.85	118.38	109.60
3	U	424	HIS	CA-CB-CG	5.85	119.65	113.80
3	F	473	PRO	CA-C-N	5.85	128.79	120.49
3	F	473	PRO	C-N-CA	5.85	128.79	120.49
3	I	278	THR	CA-C-N	5.85	128.12	120.28
3	I	278	THR	C-N-CA	5.85	128.12	120.28
2	X	144	GLU	CB-CG-CD	5.85	122.54	112.60
3	Y	132	THR	CA-CB-OG1	5.85	118.37	109.60
3	1	37	ARG	CA-C-O	-5.85	114.44	121.34
3	O	509	LYS	CB-CG-CD	5.85	124.75	111.30
3	F	119	VAL	CA-C-N	5.84	129.95	120.60
3	F	119	VAL	C-N-CA	5.84	129.95	120.60
3	O	85	ILE	CA-C-N	5.84	131.23	123.05
3	O	85	ILE	C-N-CA	5.84	131.23	123.05
3	O	132	THR	CA-CB-OG1	5.84	118.37	109.60
3	R	37	ARG	CA-C-O	-5.84	114.44	121.34
3	R	119	VAL	CA-C-N	5.84	129.95	120.60
3	R	119	VAL	C-N-CA	5.84	129.95	120.60
3	C	119	VAL	CA-C-N	5.84	129.95	120.60
3	C	119	VAL	C-N-CA	5.84	129.95	120.60
3	V	278	THR	CA-C-N	5.84	128.11	120.28
3	V	278	THR	C-N-CA	5.84	128.11	120.28
3	Y	509	LYS	CB-CG-CD	5.84	124.74	111.30
3	4	186	LEU	CA-C-N	5.84	128.11	120.28
3	4	186	LEU	C-N-CA	5.84	128.11	120.28
3	7	424	HIS	CA-CB-CG	5.84	119.64	113.80
3	C	278	THR	CA-C-N	5.84	128.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	278	THR	C-N-CA	5.84	128.11	120.28
1	M	23	ARG	NE-CZ-NH1	-5.84	115.66	121.50
3	O	278	THR	CA-C-N	5.84	128.10	120.28
3	O	278	THR	C-N-CA	5.84	128.10	120.28
3	R	509	LYS	CB-CG-CD	5.84	124.73	111.30
3	Y	473	PRO	CA-C-N	5.84	128.78	120.49
3	Y	473	PRO	C-N-CA	5.84	128.78	120.49
3	U	249	SER	CA-CB-OG	5.84	122.78	111.10
3	L	509	LYS	CB-CG-CD	5.84	124.73	111.30
3	O	473	PRO	CA-C-N	5.84	128.78	120.49
3	O	473	PRO	C-N-CA	5.84	128.78	120.49
3	1	424	HIS	CA-CB-CG	5.84	119.64	113.80
3	R	473	PRO	CA-C-N	5.84	128.78	120.49
3	R	473	PRO	C-N-CA	5.84	128.78	120.49
3	4	278	THR	CA-C-N	5.84	128.10	120.28
3	4	278	THR	C-N-CA	5.84	128.10	120.28
3	U	509	LYS	CB-CG-CD	5.84	124.73	111.30
1	A	23	ARG	NE-CZ-NH1	-5.83	115.67	121.50
3	Y	85	ILE	CA-C-N	5.83	131.22	123.05
3	Y	85	ILE	C-N-CA	5.83	131.22	123.05
3	Y	119	VAL	CA-C-N	5.83	129.94	120.60
3	Y	119	VAL	C-N-CA	5.83	129.94	120.60
3	O	249	SER	CA-CB-OG	5.83	122.77	111.10
3	Y	249	SER	CA-CB-OG	5.83	122.77	111.10
3	1	249	SER	CA-CB-OG	5.83	122.76	111.10
3	4	473	PRO	CA-C-N	5.83	128.77	120.49
3	4	473	PRO	C-N-CA	5.83	128.77	120.49
3	7	473	PRO	CA-C-N	5.83	128.77	120.49
3	7	473	PRO	C-N-CA	5.83	128.77	120.49
3	R	278	THR	CA-C-N	5.83	128.09	120.28
3	R	278	THR	C-N-CA	5.83	128.09	120.28
3	C	37	ARG	CA-C-O	-5.83	114.46	121.34
3	I	132	THR	CA-CB-OG1	5.83	118.34	109.60
3	4	37	ARG	CA-C-O	-5.83	114.46	121.34
3	7	119	VAL	CA-C-N	5.83	129.93	120.60
3	7	119	VAL	C-N-CA	5.83	129.93	120.60
2	9	144	GLU	CB-CG-CD	5.83	122.51	112.60
3	F	37	ARG	CA-C-O	-5.83	114.47	121.34
1	G	23	ARG	NE-CZ-NH1	-5.83	115.67	121.50
3	I	119	VAL	CA-C-N	5.83	129.92	120.60
3	I	119	VAL	C-N-CA	5.83	129.92	120.60
3	L	249	SER	CA-CB-OG	5.83	122.75	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	N	144	GLU	CB-CG-CD	5.83	122.50	112.60
2	6	154[A]	ARG	CB-CA-C	5.83	120.11	110.90
2	6	154[B]	ARG	CB-CA-C	5.83	120.11	110.90
3	C	249	SER	CA-CB-OG	5.82	122.74	111.10
3	7	37	ARG	CA-C-O	-5.82	114.47	121.34
3	F	278	THR	CA-C-N	5.82	128.08	120.28
3	F	278	THR	C-N-CA	5.82	128.08	120.28
3	L	85	ILE	CA-C-N	5.82	131.20	123.05
3	L	85	ILE	C-N-CA	5.82	131.20	123.05
3	V	119	VAL	CA-C-N	5.82	129.91	120.60
3	V	119	VAL	C-N-CA	5.82	129.91	120.60
3	V	249	SER	CA-CB-OG	5.82	122.74	111.10
3	Y	420	GLN	CA-C-N	5.82	132.82	121.41
3	Y	420	GLN	C-N-CA	5.82	132.82	121.41
3	1	145	PRO	CA-N-CD	-5.82	103.85	112.00
3	C	85	ILE	CA-C-N	5.82	131.20	123.05
3	C	85	ILE	C-N-CA	5.82	131.20	123.05
3	F	249	SER	CA-CB-OG	5.82	122.74	111.10
3	I	37	ARG	CA-C-O	-5.82	114.47	121.34
2	T	144	GLU	CB-CG-CD	5.82	122.49	112.60
2	0	144	GLU	CB-CG-CD	5.82	122.49	112.60
1	5	6	ARG	CA-C-N	5.82	128.35	120.44
1	5	6	ARG	C-N-CA	5.82	128.35	120.44
3	U	278	THR	CA-C-N	5.82	128.08	120.28
3	U	278	THR	C-N-CA	5.82	128.08	120.28
3	F	85	ILE	CA-C-N	5.82	131.20	123.05
3	F	85	ILE	C-N-CA	5.82	131.20	123.05
3	R	249	SER	CA-CB-OG	5.82	122.73	111.10
3	7	278	THR	CA-C-N	5.82	128.07	120.28
3	7	278	THR	C-N-CA	5.82	128.07	120.28
3	C	473	PRO	CA-C-N	5.82	128.75	120.49
3	C	473	PRO	C-N-CA	5.82	128.75	120.49
2	Q	144	GLU	CB-CG-CD	5.82	122.48	112.60
3	V	473	PRO	CA-C-N	5.82	128.75	120.49
3	V	473	PRO	C-N-CA	5.82	128.75	120.49
2	3	144	GLU	CB-CG-CD	5.82	122.48	112.60
1	8	23	ARG	NE-CZ-NH2	5.82	124.44	119.20
3	U	85	ILE	CA-C-N	5.82	131.19	123.05
3	U	85	ILE	C-N-CA	5.82	131.19	123.05
2	B	144	GLU	CB-CG-CD	5.81	122.48	112.60
3	V	37	ARG	CA-C-O	-5.81	114.48	121.34
3	U	473	PRO	CA-C-N	5.81	128.74	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	U	473	PRO	C-N-CA	5.81	128.74	120.49
3	L	41	GLU	CA-C-N	5.81	129.61	121.24
3	L	41	GLU	C-N-CA	5.81	129.61	121.24
3	F	424	HIS	CA-CB-CG	5.81	119.61	113.80
2	K	144	GLU	CB-CG-CD	5.81	122.47	112.60
3	R	420	GLN	CA-C-N	5.81	132.80	121.41
3	R	420	GLN	C-N-CA	5.81	132.80	121.41
3	4	85	ILE	CA-C-N	5.81	131.18	123.05
3	4	85	ILE	C-N-CA	5.81	131.18	123.05
3	7	249	SER	CA-CB-OG	5.81	122.72	111.10
1	W	6	ARG	CA-C-N	5.81	128.34	120.44
1	W	6	ARG	C-N-CA	5.81	128.34	120.44
2	0	154[A]	ARG	CB-CA-C	5.81	120.08	110.90
2	0	154[B]	ARG	CB-CA-C	5.81	120.08	110.90
3	7	145	PRO	CA-N-CD	-5.81	103.87	112.00
3	L	117	VAL	CA-CB-CG2	5.81	120.27	110.40
3	1	41	GLU	CA-C-N	5.81	129.60	121.24
3	1	41	GLU	C-N-CA	5.81	129.60	121.24
2	3	154[A]	ARG	CB-CA-C	5.81	120.07	110.90
2	3	154[B]	ARG	CB-CA-C	5.81	120.07	110.90
3	F	145	PRO	CA-N-CD	-5.80	103.88	112.00
3	Y	37	ARG	CA-C-O	-5.80	114.49	121.34
3	4	249	SER	CA-CB-OG	5.80	122.71	111.10
3	I	85	ILE	CA-C-N	5.80	131.17	123.05
3	I	85	ILE	C-N-CA	5.80	131.17	123.05
2	T	154[A]	ARG	CB-CA-C	5.80	120.07	110.90
2	T	154[B]	ARG	CB-CA-C	5.80	120.07	110.90
2	9	154[A]	ARG	CB-CA-C	5.80	120.07	110.90
2	9	154[B]	ARG	CB-CA-C	5.80	120.07	110.90
2	E	144	GLU	CB-CG-CD	5.80	122.46	112.60
3	I	145	PRO	CA-N-CD	-5.80	103.88	112.00
1	J	6	ARG	CA-C-N	5.80	128.33	120.44
1	J	6	ARG	C-N-CA	5.80	128.33	120.44
2	N	154[A]	ARG	CB-CA-C	5.80	120.07	110.90
2	N	154[B]	ARG	CB-CA-C	5.80	120.07	110.90
1	Z	23	ARG	NE-CZ-NH1	-5.80	115.70	121.50
3	V	420	GLN	CA-C-N	5.80	132.78	121.41
3	V	420	GLN	C-N-CA	5.80	132.78	121.41
3	1	85	ILE	CA-C-N	5.80	131.17	123.05
3	1	85	ILE	C-N-CA	5.80	131.17	123.05
3	I	249	SER	CA-CB-OG	5.80	122.69	111.10
1	M	6	ARG	CA-C-N	5.80	128.33	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	6	ARG	C-N-CA	5.80	128.33	120.44
3	C	145	PRO	CA-N-CD	-5.80	103.88	112.00
3	L	37	ARG	CA-C-O	-5.80	114.50	121.34
3	L	145	PRO	CA-N-CD	-5.80	103.89	112.00
3	R	85	ILE	CA-C-N	5.80	131.16	123.05
3	R	85	ILE	C-N-CA	5.80	131.16	123.05
3	1	420	GLN	CA-C-N	5.80	132.77	121.41
3	1	420	GLN	C-N-CA	5.80	132.77	121.41
2	B	154[A]	ARG	CB-CA-C	5.79	120.06	110.90
2	B	154[B]	ARG	CB-CA-C	5.79	120.06	110.90
2	E	154[A]	ARG	CB-CA-C	5.79	120.06	110.90
2	E	154[B]	ARG	CB-CA-C	5.79	120.06	110.90
3	R	117	VAL	CA-CB-CG2	5.79	120.25	110.40
1	S	6	ARG	CA-C-N	5.79	128.32	120.44
1	S	6	ARG	C-N-CA	5.79	128.32	120.44
2	6	144	GLU	CB-CG-CD	5.79	122.45	112.60
3	7	85	ILE	CA-C-N	5.79	131.16	123.05
3	7	85	ILE	C-N-CA	5.79	131.16	123.05
3	F	420	GLN	CA-C-N	5.79	132.76	121.41
3	F	420	GLN	C-N-CA	5.79	132.76	121.41
3	O	41	GLU	CA-C-N	5.79	129.58	121.24
3	O	41	GLU	C-N-CA	5.79	129.58	121.24
2	Q	154[A]	ARG	CB-CA-C	5.79	120.05	110.90
2	Q	154[B]	ARG	CB-CA-C	5.79	120.05	110.90
2	X	154[A]	ARG	CB-CA-C	5.79	120.05	110.90
2	X	154[B]	ARG	CB-CA-C	5.79	120.05	110.90
3	1	473	PRO	CA-C-N	5.79	128.72	120.49
3	1	473	PRO	C-N-CA	5.79	128.72	120.49
1	8	6	ARG	CA-C-N	5.79	128.32	120.44
1	8	6	ARG	C-N-CA	5.79	128.32	120.44
2	H	144	GLU	CB-CG-CD	5.79	122.44	112.60
3	C	420	GLN	CA-C-N	5.79	132.76	121.41
3	C	420	GLN	C-N-CA	5.79	132.76	121.41
3	I	473	PRO	CA-C-N	5.79	128.71	120.49
3	I	473	PRO	C-N-CA	5.79	128.71	120.49
3	4	414	ILE	CB-CG1-CD1	5.79	125.95	113.80
3	O	145	PRO	CA-N-CD	-5.79	103.90	112.00
1	G	6	ARG	CA-C-N	5.79	128.31	120.44
1	G	6	ARG	C-N-CA	5.79	128.31	120.44
3	I	420	GLN	CA-C-N	5.79	132.75	121.41
3	I	420	GLN	C-N-CA	5.79	132.75	121.41
3	L	420	GLN	CA-C-N	5.79	132.75	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	420	GLN	C-N-CA	5.79	132.75	121.41
3	L	473	PRO	CA-C-N	5.79	128.71	120.49
3	L	473	PRO	C-N-CA	5.79	128.71	120.49
3	4	41	GLU	CA-C-N	5.79	129.57	121.24
3	4	41	GLU	C-N-CA	5.79	129.57	121.24
3	I	41	GLU	CA-C-N	5.78	129.57	121.24
3	I	41	GLU	C-N-CA	5.78	129.57	121.24
3	V	41	GLU	CA-C-N	5.78	129.57	121.24
3	V	41	GLU	C-N-CA	5.78	129.57	121.24
3	C	41	GLU	CA-C-N	5.78	129.57	121.24
3	C	41	GLU	C-N-CA	5.78	129.57	121.24
2	K	154[A]	ARG	CB-CA-C	5.78	120.04	110.90
2	K	154[B]	ARG	CB-CA-C	5.78	120.04	110.90
3	Y	117	VAL	CA-CB-CG2	5.78	120.23	110.40
3	R	414	ILE	CB-CG1-CD1	5.78	125.94	113.80
3	Y	145	PRO	CA-N-CD	-5.78	103.91	112.00
3	U	414	ILE	CB-CG1-CD1	5.78	125.94	113.80
1	A	6	ARG	CA-C-N	5.78	128.30	120.44
1	A	6	ARG	C-N-CA	5.78	128.30	120.44
1	Z	6	ARG	CA-C-N	5.78	128.30	120.44
1	Z	6	ARG	C-N-CA	5.78	128.30	120.44
3	V	145	PRO	CA-N-CD	-5.78	103.91	112.00
3	1	117	VAL	CA-CB-CG2	5.78	120.22	110.40
3	U	117	VAL	CA-CB-CG2	5.78	120.22	110.40
3	C	117	VAL	CA-CB-CG2	5.78	120.22	110.40
1	M	23	ARG	NE-CZ-NH2	5.77	124.40	119.20
3	R	41	GLU	CA-C-N	5.77	129.56	121.24
3	R	41	GLU	C-N-CA	5.77	129.56	121.24
2	H	154[A]	ARG	CB-CA-C	5.77	120.02	110.90
2	H	154[B]	ARG	CB-CA-C	5.77	120.02	110.90
1	P	23	ARG	NE-CZ-NH2	5.77	124.40	119.20
3	U	41	GLU	CA-C-N	5.77	129.55	121.24
3	U	41	GLU	C-N-CA	5.77	129.55	121.24
3	R	145	PRO	CA-N-CD	-5.77	103.92	112.00
1	2	6	ARG	CA-C-N	5.77	128.29	120.44
1	2	6	ARG	C-N-CA	5.77	128.29	120.44
3	4	420	GLN	CA-C-N	5.77	132.72	121.41
3	4	420	GLN	C-N-CA	5.77	132.72	121.41
3	7	360	SER	CA-C-N	5.77	132.09	121.94
3	7	360	SER	C-N-CA	5.77	132.09	121.94
3	7	414	ILE	CB-CG1-CD1	5.77	125.92	113.80
3	F	117	VAL	CA-CB-CG2	5.77	120.20	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	420	GLN	CA-C-N	5.77	132.72	121.41
3	O	420	GLN	C-N-CA	5.77	132.72	121.41
3	7	420	GLN	CA-C-N	5.77	132.71	121.41
3	7	420	GLN	C-N-CA	5.77	132.71	121.41
3	U	420	GLN	CA-C-N	5.77	132.72	121.41
3	U	420	GLN	C-N-CA	5.77	132.72	121.41
3	I	117	VAL	CA-CB-CG2	5.77	120.20	110.40
1	W	23	ARG	NE-CZ-NH2	5.77	124.39	119.20
1	2	23	ARG	NE-CZ-NH2	5.77	124.39	119.20
3	C	414	ILE	CB-CG1-CD1	5.76	125.91	113.80
2	T	93	LYS	N-CA-C	5.76	118.94	109.72
3	4	145	PRO	CA-N-CD	-5.76	103.93	112.00
3	7	117	VAL	CA-CB-CG2	5.76	120.20	110.40
2	X	62	ASN	CA-C-N	5.76	132.81	122.38
2	X	62	ASN	C-N-CA	5.76	132.81	122.38
2	6	37	LEU	CA-C-N	5.76	133.80	121.18
2	6	37	LEU	C-N-CA	5.76	133.80	121.18
3	U	360	SER	CA-C-N	5.76	132.08	121.94
3	U	360	SER	C-N-CA	5.76	132.08	121.94
3	O	117	VAL	CA-CB-CG2	5.76	120.19	110.40
2	0	37	LEU	CA-C-N	5.76	133.79	121.18
2	0	37	LEU	C-N-CA	5.76	133.79	121.18
2	B	37	LEU	CA-C-N	5.76	133.79	121.18
2	B	37	LEU	C-N-CA	5.76	133.79	121.18
1	M	1	MET	CA-C-N	5.76	131.14	122.68
1	M	1	MET	C-N-CA	5.76	131.14	122.68
3	O	414	ILE	CB-CG1-CD1	5.76	125.89	113.80
2	Q	37	LEU	CA-C-N	5.76	133.79	121.18
2	Q	37	LEU	C-N-CA	5.76	133.79	121.18
2	X	37	LEU	CA-C-N	5.76	133.79	121.18
2	X	37	LEU	C-N-CA	5.76	133.79	121.18
3	U	446	GLY	N-CA-C	5.76	122.79	114.67
2	N	62	ASN	CA-C-N	5.76	132.80	122.38
2	N	62	ASN	C-N-CA	5.76	132.80	122.38
2	T	37	LEU	CA-C-N	5.76	133.78	121.18
2	T	37	LEU	C-N-CA	5.76	133.78	121.18
2	3	62	ASN	CA-C-N	5.76	132.80	122.38
2	3	62	ASN	C-N-CA	5.76	132.80	122.38
3	U	145	PRO	CA-N-CD	-5.76	103.94	112.00
3	Y	414	ILE	CB-CG1-CD1	5.75	125.89	113.80
3	7	41	GLU	CA-C-N	5.75	129.53	121.24
3	7	41	GLU	C-N-CA	5.75	129.53	121.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	9	37	LEU	CA-C-N	5.75	133.78	121.18
2	9	37	LEU	C-N-CA	5.75	133.78	121.18
1	D	6	ARG	CA-C-N	5.75	128.27	120.44
1	D	6	ARG	C-N-CA	5.75	128.27	120.44
3	V	117	VAL	CA-CB-CG2	5.75	120.18	110.40
3	Y	41	GLU	CA-C-N	5.75	129.53	121.24
3	Y	41	GLU	C-N-CA	5.75	129.53	121.24
2	3	37	LEU	CA-C-N	5.75	133.78	121.18
2	3	37	LEU	C-N-CA	5.75	133.78	121.18
2	K	37	LEU	CA-C-N	5.75	133.78	121.18
2	K	37	LEU	C-N-CA	5.75	133.78	121.18
3	V	414	ILE	CB-CG1-CD1	5.75	125.88	113.80
2	K	93	LYS	N-CA-C	5.75	118.92	109.72
3	V	360	SER	CA-C-N	5.75	132.06	121.94
3	V	360	SER	C-N-CA	5.75	132.06	121.94
3	1	360	SER	CA-C-N	5.75	132.06	121.94
3	1	360	SER	C-N-CA	5.75	132.06	121.94
3	F	41	GLU	CA-C-N	5.75	129.52	121.24
3	F	41	GLU	C-N-CA	5.75	129.52	121.24
3	4	117	VAL	CA-CB-CG2	5.75	120.17	110.40
2	H	37	LEU	CA-C-N	5.75	133.76	121.18
2	H	37	LEU	C-N-CA	5.75	133.76	121.18
3	L	159	PHE	CA-CB-CG	5.75	119.55	113.80
3	L	360	SER	CA-C-N	5.75	132.05	121.94
3	L	360	SER	C-N-CA	5.75	132.05	121.94
2	T	62	ASN	CA-C-N	5.75	132.78	122.38
2	T	62	ASN	C-N-CA	5.75	132.78	122.38
2	X	93	LYS	N-CA-C	5.75	118.91	109.72
2	N	37	LEU	CA-C-N	5.75	133.76	121.18
2	N	37	LEU	C-N-CA	5.75	133.76	121.18
2	E	62	ASN	CA-C-N	5.74	132.78	122.38
2	E	62	ASN	C-N-CA	5.74	132.78	122.38
3	F	414	ILE	CB-CG1-CD1	5.74	125.86	113.80
1	P	6	ARG	CA-C-N	5.74	128.25	120.44
1	P	6	ARG	C-N-CA	5.74	128.25	120.44
2	3	93	LYS	N-CA-C	5.74	118.91	109.72
3	L	414	ILE	CB-CG1-CD1	5.74	125.86	113.80
3	4	360	SER	CA-C-N	5.74	132.05	121.94
3	4	360	SER	C-N-CA	5.74	132.05	121.94
2	B	62	ASN	CA-C-N	5.74	132.77	122.38
2	B	62	ASN	C-N-CA	5.74	132.77	122.38
3	C	360	SER	CA-C-N	5.74	132.04	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	360	SER	C-N-CA	5.74	132.04	121.94
3	C	446	GLY	N-CA-C	5.74	122.76	114.67
2	E	37	LEU	CA-C-N	5.74	133.75	121.18
2	E	37	LEU	C-N-CA	5.74	133.75	121.18
3	O	159	PHE	CA-CB-CG	5.74	119.54	113.80
3	O	446	GLY	N-CA-C	5.74	122.77	114.67
3	Y	446	GLY	N-CA-C	5.74	122.76	114.67
3	V	446	GLY	N-CA-C	5.74	122.76	114.67
1	Z	23	ARG	NE-CZ-NH2	5.74	124.36	119.20
3	1	414	ILE	CB-CG1-CD1	5.74	125.85	113.80
3	R	360	SER	CA-C-N	5.74	132.04	121.94
3	R	360	SER	C-N-CA	5.74	132.04	121.94
3	7	446	GLY	N-CA-C	5.74	122.76	114.67
2	H	93	LYS	N-CA-C	5.73	118.89	109.72
2	9	93	LYS	N-CA-C	5.73	118.89	109.72
3	Y	360	SER	CA-C-N	5.73	132.03	121.94
3	Y	360	SER	C-N-CA	5.73	132.03	121.94
2	9	62	ASN	CA-C-N	5.73	132.75	122.38
2	9	62	ASN	C-N-CA	5.73	132.75	122.38
1	A	23	ARG	NE-CZ-NH2	5.73	124.36	119.20
3	I	426	ILE	CA-C-N	5.73	131.50	122.51
3	I	426	ILE	C-N-CA	5.73	131.50	122.51
1	Z	1	MET	CA-C-N	5.73	131.10	122.68
1	Z	1	MET	C-N-CA	5.73	131.10	122.68
2	0	62	ASN	CA-C-N	5.73	132.75	122.38
2	0	62	ASN	C-N-CA	5.73	132.75	122.38
2	B	93	LYS	N-CA-C	5.73	118.89	109.72
3	F	446	GLY	N-CA-C	5.73	122.75	114.67
3	I	446	GLY	N-CA-C	5.73	122.75	114.67
3	1	446	GLY	N-CA-C	5.73	122.75	114.67
3	U	159	PHE	CA-CB-CG	5.73	119.53	113.80
2	K	62	ASN	CA-C-N	5.73	132.75	122.38
2	K	62	ASN	C-N-CA	5.73	132.75	122.38
1	5	1	MET	CA-C-N	5.73	131.10	122.68
1	5	1	MET	C-N-CA	5.73	131.10	122.68
2	6	93	LYS	N-CA-C	5.73	118.88	109.72
3	I	360	SER	CA-C-N	5.73	132.02	121.94
3	I	360	SER	C-N-CA	5.73	132.02	121.94
2	Q	93	LYS	N-CA-C	5.73	118.88	109.72
3	4	446	GLY	N-CA-C	5.73	122.74	114.67
1	D	23	ARG	NE-CZ-NH2	5.72	124.35	119.20
2	Q	62	ASN	CA-C-N	5.72	132.74	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	62	ASN	C-N-CA	5.72	132.74	122.38
1	W	1	MET	CA-C-N	5.72	131.10	122.68
1	W	1	MET	C-N-CA	5.72	131.10	122.68
3	I	414	ILE	CB-CG1-CD1	5.72	125.82	113.80
3	O	360	SER	CA-C-N	5.72	132.01	121.94
3	O	360	SER	C-N-CA	5.72	132.01	121.94
3	4	159	PHE	CA-CB-CG	5.72	119.52	113.80
2	E	93	LYS	N-CA-C	5.72	118.87	109.72
3	L	446	GLY	N-CA-C	5.72	122.73	114.67
3	R	426	ILE	CA-C-N	5.72	131.49	122.51
3	R	426	ILE	C-N-CA	5.72	131.49	122.51
1	Z	81	GLN	N-CA-C	5.72	118.28	109.07
2	6	62	ASN	CA-C-N	5.72	132.73	122.38
2	6	62	ASN	C-N-CA	5.72	132.73	122.38
1	G	23	ARG	NE-CZ-NH2	5.72	124.35	119.20
1	2	1	MET	CA-C-N	5.72	131.09	122.68
1	2	1	MET	C-N-CA	5.72	131.09	122.68
1	A	1	MET	CA-C-N	5.72	131.08	122.68
1	A	1	MET	C-N-CA	5.72	131.08	122.68
2	0	93	LYS	N-CA-C	5.72	118.87	109.72
3	4	426	ILE	CA-C-N	5.71	131.48	122.51
3	4	426	ILE	C-N-CA	5.71	131.48	122.51
1	8	1	MET	CA-C-N	5.71	131.08	122.68
1	8	1	MET	C-N-CA	5.71	131.08	122.68
1	D	1	MET	CA-C-N	5.71	131.08	122.68
1	D	1	MET	C-N-CA	5.71	131.08	122.68
3	F	426	ILE	CA-C-N	5.71	131.48	122.51
3	F	426	ILE	C-N-CA	5.71	131.48	122.51
2	N	93	LYS	N-CA-C	5.71	118.86	109.72
1	P	1	MET	CA-C-N	5.71	131.08	122.68
1	P	1	MET	C-N-CA	5.71	131.08	122.68
2	3	89	ALA	CA-C-N	5.71	132.72	121.58
2	3	89	ALA	C-N-CA	5.71	132.72	121.58
3	F	360	SER	CA-C-N	5.71	131.99	121.94
3	F	360	SER	C-N-CA	5.71	131.99	121.94
3	U	426	ILE	CA-C-N	5.71	131.47	122.51
3	U	426	ILE	C-N-CA	5.71	131.47	122.51
3	R	159	PHE	CA-CB-CG	5.71	119.51	113.80
3	1	426	ILE	CA-C-N	5.71	131.47	122.51
3	1	426	ILE	C-N-CA	5.71	131.47	122.51
1	G	1	MET	CA-C-N	5.71	131.07	122.68
1	G	1	MET	C-N-CA	5.71	131.07	122.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	V	426	ILE	CA-C-N	5.71	131.47	122.51
3	V	426	ILE	C-N-CA	5.71	131.47	122.51
2	H	62	ASN	CA-C-N	5.71	132.71	122.38
2	H	62	ASN	C-N-CA	5.71	132.71	122.38
2	H	89	ALA	CA-C-N	5.71	132.71	121.58
2	H	89	ALA	C-N-CA	5.71	132.71	121.58
2	N	89	ALA	CA-C-N	5.71	132.71	121.58
2	N	89	ALA	C-N-CA	5.71	132.71	121.58
1	D	81	GLN	N-CA-C	5.70	118.25	109.07
1	G	78	PRO	CA-N-CD	-5.70	104.02	112.00
2	K	89	ALA	CA-C-N	5.70	132.70	121.58
2	K	89	ALA	C-N-CA	5.70	132.70	121.58
3	Y	159	PHE	CA-CB-CG	5.70	119.50	113.80
3	R	446	GLY	N-CA-C	5.70	122.71	114.67
2	B	89	ALA	CA-C-N	5.70	132.70	121.58
2	B	89	ALA	C-N-CA	5.70	132.70	121.58
3	C	426	ILE	CA-C-N	5.70	131.46	122.51
3	C	426	ILE	C-N-CA	5.70	131.46	122.51
1	J	1	MET	CA-C-N	5.70	131.06	122.68
1	J	1	MET	C-N-CA	5.70	131.06	122.68
2	6	89	ALA	CA-C-N	5.70	132.70	121.58
2	6	89	ALA	C-N-CA	5.70	132.70	121.58
3	C	159	PHE	CA-CB-CG	5.70	119.50	113.80
1	J	81	GLN	N-CA-C	5.70	118.24	109.07
3	1	159	PHE	CA-CB-CG	5.70	119.50	113.80
1	5	23	ARG	NE-CZ-NH2	5.70	124.33	119.20
3	O	426	ILE	CA-C-N	5.70	131.45	122.51
3	O	426	ILE	C-N-CA	5.70	131.45	122.51
2	X	89	ALA	CA-C-N	5.70	132.69	121.58
2	X	89	ALA	C-N-CA	5.70	132.69	121.58
2	9	78	GLU	CA-CB-CG	5.70	125.49	114.10
3	V	159	PHE	CA-CB-CG	5.70	119.50	113.80
2	0	89	ALA	CA-C-N	5.70	132.69	121.58
2	0	89	ALA	C-N-CA	5.70	132.69	121.58
3	7	159	PHE	CA-CB-CG	5.70	119.50	113.80
2	9	89	ALA	CA-C-N	5.70	132.69	121.58
2	9	89	ALA	C-N-CA	5.70	132.69	121.58
1	D	78	PRO	CA-N-CD	-5.69	104.03	112.00
3	I	159	PHE	CA-CB-CG	5.69	119.49	113.80
1	M	81	GLN	N-CA-C	5.69	118.23	109.07
1	P	81	GLN	N-CA-C	5.69	118.23	109.07
3	4	259	GLY	N-CA-C	5.69	118.66	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	23	ARG	NE-CZ-NH2	5.69	124.32	119.20
1	W	81	GLN	N-CA-C	5.69	118.23	109.07
1	A	81	GLN	N-CA-C	5.69	118.22	109.07
1	M	78	PRO	CA-N-CD	-5.69	104.04	112.00
3	F	159	PHE	CA-CB-CG	5.68	119.48	113.80
3	L	426	ILE	CA-C-N	5.68	131.43	122.51
3	L	426	ILE	C-N-CA	5.68	131.43	122.51
1	S	81	GLN	N-CA-C	5.68	118.22	109.07
2	X	78	GLU	CA-CB-CG	5.68	125.47	114.10
3	Y	259	GLY	N-CA-C	5.68	118.65	111.09
1	5	78	PRO	CA-N-CD	-5.68	104.04	112.00
1	5	81	GLN	N-CA-C	5.68	118.22	109.07
3	7	426	ILE	CA-C-N	5.68	131.44	122.51
3	7	426	ILE	C-N-CA	5.68	131.44	122.51
3	U	259	GLY	N-CA-C	5.68	118.65	111.09
1	A	78	PRO	CA-N-CD	-5.68	104.05	112.00
2	E	89	ALA	CA-C-N	5.68	132.66	121.58
2	E	89	ALA	C-N-CA	5.68	132.66	121.58
1	S	1	MET	CA-C-N	5.68	131.03	122.68
1	S	1	MET	C-N-CA	5.68	131.03	122.68
2	T	89	ALA	CA-C-N	5.68	132.66	121.58
2	T	89	ALA	C-N-CA	5.68	132.66	121.58
3	V	259	GLY	N-CA-C	5.68	118.65	111.09
3	Y	426	ILE	CA-C-N	5.68	131.43	122.51
3	Y	426	ILE	C-N-CA	5.68	131.43	122.51
1	Z	78	PRO	CA-N-CD	-5.68	104.04	112.00
1	2	78	PRO	CA-N-CD	-5.68	104.05	112.00
1	S	23	ARG	NE-CZ-NH2	5.68	124.31	119.20
2	B	78	GLU	CA-CB-CG	5.68	125.45	114.10
2	E	78	GLU	CA-CB-CG	5.68	125.45	114.10
2	K	78	GLU	CA-CB-CG	5.68	125.45	114.10
2	Q	89	ALA	CA-C-N	5.68	132.65	121.58
2	Q	89	ALA	C-N-CA	5.68	132.65	121.58
2	0	78	GLU	CA-CB-CG	5.68	125.45	114.10
1	8	78	PRO	CA-N-CD	-5.68	104.05	112.00
3	7	259	GLY	N-CA-C	5.67	118.64	111.09
2	H	78	GLU	CA-CB-CG	5.67	125.44	114.10
2	X	132	ASP	CA-C-N	5.67	132.52	121.41
2	X	132	ASP	C-N-CA	5.67	132.52	121.41
1	J	78	PRO	CA-N-CD	-5.67	104.06	112.00
2	Q	78	GLU	CA-CB-CG	5.67	125.44	114.10
3	R	117	VAL	CA-C-N	5.67	132.52	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	117	VAL	C-N-CA	5.67	132.52	121.41
3	Y	117	VAL	CA-C-N	5.67	132.52	121.41
3	Y	117	VAL	C-N-CA	5.67	132.52	121.41
1	8	81	GLN	N-CA-C	5.67	118.20	109.07
3	F	259	GLY	N-CA-C	5.67	118.63	111.09
2	N	132	ASP	CA-C-N	5.67	132.51	121.41
2	N	132	ASP	C-N-CA	5.67	132.51	121.41
2	3	78	GLU	CA-CB-CG	5.67	125.43	114.10
2	N	78	GLU	CA-CB-CG	5.66	125.43	114.10
1	P	78	PRO	CA-N-CD	-5.66	104.07	112.00
1	W	78	PRO	CA-N-CD	-5.66	104.07	112.00
1	G	81	GLN	N-CA-C	5.66	118.18	109.07
2	T	78	GLU	CA-CB-CG	5.66	125.42	114.10
1	2	81	GLN	N-CA-C	5.66	118.18	109.07
3	C	259	GLY	N-CA-C	5.66	118.61	111.09
1	S	78	PRO	CA-N-CD	-5.66	104.08	112.00
3	4	255	LEU	CA-C-N	5.66	131.93	123.05
3	4	255	LEU	C-N-CA	5.66	131.93	123.05
3	7	280	GLY	N-CA-C	5.66	121.50	114.37
3	I	117	VAL	CA-C-N	5.65	132.49	121.41
3	I	117	VAL	C-N-CA	5.65	132.49	121.41
3	O	117	VAL	CA-C-N	5.65	132.49	121.41
3	O	117	VAL	C-N-CA	5.65	132.49	121.41
3	7	117	VAL	CA-C-N	5.65	132.49	121.41
3	7	117	VAL	C-N-CA	5.65	132.49	121.41
3	C	117	VAL	CA-C-N	5.65	132.49	121.41
3	C	117	VAL	C-N-CA	5.65	132.49	121.41
3	F	117	VAL	CA-C-N	5.65	132.49	121.41
3	F	117	VAL	C-N-CA	5.65	132.49	121.41
2	T	132	ASP	CA-C-N	5.65	132.49	121.41
2	T	132	ASP	C-N-CA	5.65	132.49	121.41
3	R	259	GLY	N-CA-C	5.65	118.60	111.09
2	6	78	GLU	CA-CB-CG	5.65	125.40	114.10
3	L	117	VAL	CA-C-N	5.65	132.48	121.41
3	L	117	VAL	C-N-CA	5.65	132.48	121.41
3	O	259	GLY	N-CA-C	5.65	118.60	111.09
3	1	259	GLY	N-CA-C	5.65	118.60	111.09
2	H	132	ASP	CA-C-N	5.64	132.47	121.41
2	H	132	ASP	C-N-CA	5.64	132.47	121.41
3	U	117	VAL	CA-C-N	5.64	132.47	121.41
3	U	117	VAL	C-N-CA	5.64	132.47	121.41
2	Q	132	ASP	CA-C-N	5.64	132.46	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	132	ASP	C-N-CA	5.64	132.46	121.41
3	4	117	VAL	CA-C-N	5.64	132.46	121.41
3	4	117	VAL	C-N-CA	5.64	132.46	121.41
2	B	132	ASP	CA-C-N	5.64	132.46	121.41
2	B	132	ASP	C-N-CA	5.64	132.46	121.41
3	I	280	GLY	N-CA-C	5.63	121.47	114.37
3	1	117	VAL	CA-C-N	5.63	132.45	121.41
3	1	117	VAL	C-N-CA	5.63	132.45	121.41
2	3	132	ASP	CA-C-N	5.63	132.45	121.41
2	3	132	ASP	C-N-CA	5.63	132.45	121.41
3	L	259	GLY	N-CA-C	5.63	118.58	111.09
3	V	117	VAL	CA-C-N	5.63	132.45	121.41
3	V	117	VAL	C-N-CA	5.63	132.45	121.41
3	Y	451	MET	CA-C-N	5.63	130.59	123.10
3	Y	451	MET	C-N-CA	5.63	130.59	123.10
3	1	280	GLY	N-CA-C	5.63	121.47	114.37
2	9	132	ASP	CA-C-N	5.63	132.45	121.41
2	9	132	ASP	C-N-CA	5.63	132.45	121.41
2	E	132	ASP	CA-C-N	5.63	132.44	121.41
2	E	132	ASP	C-N-CA	5.63	132.44	121.41
3	F	280	GLY	N-CA-C	5.63	121.46	114.37
3	O	496	PHE	CA-C-N	5.63	130.68	123.03
3	O	496	PHE	C-N-CA	5.63	130.68	123.03
3	R	496	PHE	CA-C-N	5.63	130.68	123.03
3	R	496	PHE	C-N-CA	5.63	130.68	123.03
3	1	451	MET	CA-C-N	5.63	130.58	123.10
3	1	451	MET	C-N-CA	5.63	130.58	123.10
3	C	280	GLY	N-CA-C	5.62	121.46	114.37
3	I	259	GLY	N-CA-C	5.62	118.57	111.09
2	K	132	ASP	CA-C-N	5.62	132.43	121.41
2	K	132	ASP	C-N-CA	5.62	132.43	121.41
3	L	280	GLY	N-CA-C	5.62	121.46	114.37
2	6	132	ASP	CA-C-N	5.62	132.43	121.41
2	6	132	ASP	C-N-CA	5.62	132.43	121.41
3	F	227	TRP	CA-CB-CG	5.62	124.27	113.60
3	O	227	TRP	CA-CB-CG	5.62	124.27	113.60
3	L	199	LEU	N-CA-C	5.62	118.39	109.24
3	L	496	PHE	CA-C-N	5.62	130.67	123.03
3	L	496	PHE	C-N-CA	5.62	130.67	123.03
3	V	381	GLN	CA-CB-CG	5.62	125.33	114.10
3	U	280	GLY	N-CA-C	5.62	121.45	114.37
3	4	227	TRP	CA-CB-CG	5.61	124.27	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	227	TRP	CA-CB-CG	5.61	124.27	113.60
3	U	134	ALA	CA-C-N	5.61	125.43	120.10
3	U	134	ALA	C-N-CA	5.61	125.43	120.10
3	F	199	LEU	N-CA-C	5.61	118.39	109.24
3	4	496	PHE	CA-C-N	5.61	130.66	123.03
3	4	496	PHE	C-N-CA	5.61	130.66	123.03
3	U	381	GLN	CA-CB-CG	5.61	125.32	114.10
3	U	451	MET	CA-C-N	5.61	130.56	123.10
3	U	451	MET	C-N-CA	5.61	130.56	123.10
3	R	199	LEU	N-CA-C	5.61	118.38	109.24
3	R	227	TRP	CA-CB-CG	5.61	124.25	113.60
3	I	199	LEU	N-CA-C	5.61	118.38	109.24
3	I	381	GLN	CA-CB-CG	5.61	125.31	114.10
3	O	381	GLN	CA-CB-CG	5.61	125.31	114.10
3	C	227	TRP	CA-CB-CG	5.60	124.25	113.60
3	F	381	GLN	CA-CB-CG	5.60	125.30	114.10
3	V	280	GLY	N-CA-C	5.60	121.43	114.37
3	V	451	MET	CA-C-N	5.60	130.55	123.10
3	V	451	MET	C-N-CA	5.60	130.55	123.10
3	Y	227	TRP	CA-CB-CG	5.60	124.25	113.60
3	I	227	TRP	CA-CB-CG	5.60	124.24	113.60
3	Y	280	GLY	N-CA-C	5.60	121.43	114.37
3	O	199	LEU	N-CA-C	5.60	118.37	109.24
2	0	132	ASP	CA-C-N	5.60	132.38	121.41
2	0	132	ASP	C-N-CA	5.60	132.38	121.41
3	7	199	LEU	N-CA-C	5.60	118.37	109.24
3	7	496	PHE	CA-C-N	5.60	130.65	123.03
3	7	496	PHE	C-N-CA	5.60	130.65	123.03
3	C	381	GLN	CA-CB-CG	5.60	125.30	114.10
3	4	381	GLN	CA-CB-CG	5.60	125.29	114.10
3	V	496	PHE	CA-C-N	5.60	130.64	123.03
3	V	496	PHE	C-N-CA	5.60	130.64	123.03
3	C	451	MET	CA-C-N	5.59	130.54	123.10
3	C	451	MET	C-N-CA	5.59	130.54	123.10
3	V	227	TRP	CA-CB-CG	5.59	124.23	113.60
3	4	280	GLY	N-CA-C	5.59	121.42	114.37
3	C	496	PHE	CA-C-N	5.59	130.63	123.03
3	C	496	PHE	C-N-CA	5.59	130.63	123.03
3	F	496	PHE	CA-C-N	5.59	130.63	123.03
3	F	496	PHE	C-N-CA	5.59	130.63	123.03
3	L	227	TRP	CA-CB-CG	5.59	124.22	113.60
3	R	451	MET	CA-C-N	5.59	130.54	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	451	MET	C-N-CA	5.59	130.54	123.10
3	U	227	TRP	CA-CB-CG	5.59	124.22	113.60
3	C	199	LEU	N-CA-C	5.59	118.35	109.24
3	R	280	GLY	N-CA-C	5.59	121.41	114.37
3	R	381	GLN	CA-CB-CG	5.59	125.28	114.10
3	F	28	LEU	CA-C-N	5.59	130.79	122.86
3	F	28	LEU	C-N-CA	5.59	130.79	122.86
3	L	451	MET	CA-C-N	5.59	130.53	123.10
3	L	451	MET	C-N-CA	5.59	130.53	123.10
3	O	280	GLY	N-CA-C	5.59	121.41	114.37
3	V	199	LEU	N-CA-C	5.59	118.35	109.24
3	1	199	LEU	N-CA-C	5.59	118.34	109.24
3	4	199	LEU	N-CA-C	5.59	118.35	109.24
3	U	199	LEU	N-CA-C	5.59	118.34	109.24
3	1	227	TRP	CA-CB-CG	5.58	124.21	113.60
3	4	28	LEU	CA-C-N	5.58	130.79	122.86
3	4	28	LEU	C-N-CA	5.58	130.79	122.86
3	L	381	GLN	CA-CB-CG	5.58	125.26	114.10
3	O	451	MET	CA-C-N	5.58	130.52	123.10
3	O	451	MET	C-N-CA	5.58	130.52	123.10
3	7	381	GLN	CA-CB-CG	5.58	125.26	114.10
3	Y	193	PRO	CB-CG-CD	5.58	123.96	106.10
3	7	451	MET	CA-C-N	5.58	130.52	123.10
3	7	451	MET	C-N-CA	5.58	130.52	123.10
3	Y	381	GLN	CA-CB-CG	5.58	125.25	114.10
3	F	400	ASN	N-CA-C	5.57	117.66	109.24
3	I	496	PHE	CA-C-N	5.57	130.61	123.03
3	I	496	PHE	C-N-CA	5.57	130.61	123.03
3	R	134	ALA	CA-C-N	5.57	125.39	120.10
3	R	134	ALA	C-N-CA	5.57	125.39	120.10
3	Y	496	PHE	CA-C-N	5.57	130.61	123.03
3	Y	496	PHE	C-N-CA	5.57	130.61	123.03
3	1	193	PRO	CB-CG-CD	5.57	123.94	106.10
3	U	193	PRO	CB-CG-CD	5.57	123.93	106.10
3	7	28	LEU	CA-C-N	5.57	130.77	122.86
3	7	28	LEU	C-N-CA	5.57	130.77	122.86
3	7	400	ASN	N-CA-C	5.57	117.65	109.24
3	I	193	PRO	CB-CG-CD	5.57	123.93	106.10
3	O	193	PRO	CB-CG-CD	5.57	123.93	106.10
2	T	122	GLN	CB-CG-CD	5.57	122.07	112.60
3	Y	199	LEU	N-CA-C	5.57	118.32	109.24
3	4	451	MET	CA-C-N	5.57	130.51	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	451	MET	C-N-CA	5.57	130.51	123.10
3	7	193	PRO	CB-CG-CD	5.57	123.92	106.10
3	V	193	PRO	CB-CG-CD	5.57	123.92	106.10
3	F	451	MET	CA-C-N	5.57	130.50	123.10
3	F	451	MET	C-N-CA	5.57	130.50	123.10
3	I	400	ASN	N-CA-C	5.57	117.65	109.24
3	O	134	ALA	CA-C-N	5.57	125.39	120.10
3	O	134	ALA	C-N-CA	5.57	125.39	120.10
2	0	122	GLN	CB-CG-CD	5.57	122.06	112.60
3	L	400	ASN	N-CA-C	5.57	117.64	109.24
2	X	122	GLN	CB-CG-CD	5.57	122.06	112.60
3	Y	28	LEU	CA-C-N	5.57	130.76	122.86
3	Y	28	LEU	C-N-CA	5.57	130.76	122.86
3	U	496	PHE	CA-C-N	5.57	130.60	123.03
3	U	496	PHE	C-N-CA	5.57	130.60	123.03
3	C	193	PRO	CB-CG-CD	5.56	123.90	106.10
3	F	193	PRO	CB-CG-CD	5.56	123.90	106.10
3	1	400	ASN	N-CA-C	5.56	117.64	109.24
3	L	193	PRO	CB-CG-CD	5.56	123.89	106.10
3	1	134	ALA	CA-C-N	5.56	125.38	120.10
3	1	134	ALA	C-N-CA	5.56	125.38	120.10
3	Y	400	ASN	N-CA-C	5.56	117.64	109.24
3	1	381	GLN	CA-CB-CG	5.56	125.22	114.10
2	B	122	GLN	CB-CG-CD	5.56	122.05	112.60
3	C	134	ALA	CA-C-N	5.56	125.38	120.10
3	C	134	ALA	C-N-CA	5.56	125.38	120.10
3	F	134	ALA	CA-C-N	5.56	125.38	120.10
3	F	134	ALA	C-N-CA	5.56	125.38	120.10
3	R	193	PRO	CB-CG-CD	5.56	123.89	106.10
2	6	122	GLN	CB-CG-CD	5.56	122.05	112.60
3	C	28	LEU	CA-C-N	5.56	130.75	122.86
3	C	28	LEU	C-N-CA	5.56	130.75	122.86
3	4	193	PRO	CB-CG-CD	5.56	123.88	106.10
2	E	122	GLN	CB-CG-CD	5.55	122.04	112.60
2	H	122	GLN	CB-CG-CD	5.55	122.04	112.60
3	O	400	ASN	N-CA-C	5.55	117.62	109.24
3	7	134	ALA	CA-C-N	5.55	125.38	120.10
3	7	134	ALA	C-N-CA	5.55	125.38	120.10
3	C	400	ASN	N-CA-C	5.55	117.62	109.24
3	I	28	LEU	CA-C-N	5.55	130.74	122.86
3	I	28	LEU	C-N-CA	5.55	130.74	122.86
3	4	400	ASN	N-CA-C	5.55	117.62	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	451	MET	CA-C-N	5.55	130.48	123.10
3	I	451	MET	C-N-CA	5.55	130.48	123.10
2	K	122	GLN	CB-CG-CD	5.55	122.03	112.60
3	R	28	LEU	CA-C-N	5.55	130.74	122.86
3	R	28	LEU	C-N-CA	5.55	130.74	122.86
3	Y	97	ALA	CA-C-N	5.54	128.12	120.92
3	Y	97	ALA	C-N-CA	5.54	128.12	120.92
3	V	28	LEU	CA-C-N	5.54	130.73	122.86
3	V	28	LEU	C-N-CA	5.54	130.73	122.86
2	N	122	GLN	CB-CG-CD	5.54	122.02	112.60
3	O	28	LEU	CA-C-N	5.54	130.73	122.86
3	O	28	LEU	C-N-CA	5.54	130.73	122.86
3	U	28	LEU	CA-C-N	5.54	130.73	122.86
3	U	28	LEU	C-N-CA	5.54	130.73	122.86
3	I	134	ALA	CA-C-N	5.54	125.36	120.10
3	I	134	ALA	C-N-CA	5.54	125.36	120.10
3	I	160	PHE	CA-C-N	5.54	133.80	121.28
3	I	160	PHE	C-N-CA	5.54	133.80	121.28
3	V	400	ASN	N-CA-C	5.54	117.60	109.24
3	7	160	PHE	CA-C-N	5.54	133.79	121.28
3	7	160	PHE	C-N-CA	5.54	133.79	121.28
3	L	28	LEU	CA-C-N	5.54	130.72	122.86
3	L	28	LEU	C-N-CA	5.54	130.72	122.86
3	O	206	GLY	CA-C-N	5.54	128.72	120.31
3	O	206	GLY	C-N-CA	5.54	128.72	120.31
3	4	124	ILE	CA-C-N	5.54	130.55	122.41
3	4	124	ILE	C-N-CA	5.54	130.55	122.41
2	9	122	GLN	CB-CG-CD	5.54	122.01	112.60
3	V	134	ALA	CA-C-N	5.53	125.36	120.10
3	V	134	ALA	C-N-CA	5.53	125.36	120.10
3	Y	160	PHE	CA-C-N	5.53	133.79	121.28
3	Y	160	PHE	C-N-CA	5.53	133.79	121.28
3	R	160	PHE	CA-C-N	5.53	133.78	121.28
3	R	160	PHE	C-N-CA	5.53	133.78	121.28
3	L	160	PHE	CA-C-N	5.53	133.78	121.28
3	L	160	PHE	C-N-CA	5.53	133.78	121.28
3	O	124	ILE	CA-C-N	5.53	130.54	122.41
3	O	124	ILE	C-N-CA	5.53	130.54	122.41
3	1	28	LEU	CA-C-N	5.53	130.71	122.86
3	1	28	LEU	C-N-CA	5.53	130.71	122.86
3	1	496	PHE	CA-C-N	5.53	130.55	123.03
3	1	496	PHE	C-N-CA	5.53	130.55	123.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	160	PHE	CA-C-N	5.53	133.78	121.28
3	4	160	PHE	C-N-CA	5.53	133.78	121.28
3	C	160	PHE	CA-C-N	5.53	133.77	121.28
3	C	160	PHE	C-N-CA	5.53	133.77	121.28
2	Q	122	GLN	CB-CG-CD	5.53	121.99	112.60
3	V	160	PHE	CA-C-N	5.53	133.77	121.28
3	V	160	PHE	C-N-CA	5.53	133.77	121.28
3	1	160	PHE	CA-C-N	5.53	133.77	121.28
3	1	160	PHE	C-N-CA	5.53	133.77	121.28
3	F	160	PHE	CA-C-N	5.52	133.76	121.28
3	F	160	PHE	C-N-CA	5.52	133.76	121.28
3	R	400	ASN	N-CA-C	5.52	117.58	109.24
2	3	122	GLN	CB-CG-CD	5.52	121.98	112.60
3	7	97	ALA	CA-C-N	5.52	128.10	120.92
3	7	97	ALA	C-N-CA	5.52	128.10	120.92
3	7	187	ARG	CA-C-N	5.52	128.13	120.29
3	7	187	ARG	C-N-CA	5.52	128.13	120.29
3	U	160	PHE	CA-C-N	5.52	133.76	121.28
3	U	160	PHE	C-N-CA	5.52	133.76	121.28
3	U	400	ASN	N-CA-C	5.52	117.57	109.24
3	I	206	GLY	CA-C-N	5.51	128.69	120.31
3	I	206	GLY	C-N-CA	5.51	128.69	120.31
3	L	124	ILE	CA-C-N	5.51	130.52	122.41
3	L	124	ILE	C-N-CA	5.51	130.52	122.41
3	O	160	PHE	CA-C-N	5.51	133.74	121.28
3	O	160	PHE	C-N-CA	5.51	133.74	121.28
3	R	124	ILE	CA-C-N	5.51	130.52	122.41
3	R	124	ILE	C-N-CA	5.51	130.52	122.41
3	Y	187	ARG	CA-C-N	5.51	128.12	120.29
3	Y	187	ARG	C-N-CA	5.51	128.12	120.29
3	U	124	ILE	CA-C-N	5.51	130.52	122.41
3	U	124	ILE	C-N-CA	5.51	130.52	122.41
3	1	300	PRO	CA-C-N	5.51	131.47	122.81
3	1	300	PRO	C-N-CA	5.51	131.47	122.81
3	4	300	PRO	CA-C-N	5.51	131.47	122.81
3	4	300	PRO	C-N-CA	5.51	131.47	122.81
3	R	97	ALA	CA-C-N	5.51	128.08	120.92
3	R	97	ALA	C-N-CA	5.51	128.08	120.92
3	V	206	GLY	CA-C-N	5.51	128.69	120.31
3	V	206	GLY	C-N-CA	5.51	128.69	120.31
3	V	300	PRO	CA-C-N	5.51	131.46	122.81
3	V	300	PRO	C-N-CA	5.51	131.46	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	206	GLY	CA-C-N	5.51	128.69	120.31
3	4	206	GLY	C-N-CA	5.51	128.69	120.31
3	7	57	ALA	N-CA-C	5.51	117.72	108.96
3	Y	57	ALA	N-CA-C	5.51	117.72	108.96
3	I	187	ARG	CA-C-N	5.51	128.11	120.29
3	I	187	ARG	C-N-CA	5.51	128.11	120.29
3	V	187	ARG	CA-C-N	5.50	128.11	120.29
3	V	187	ARG	C-N-CA	5.50	128.11	120.29
3	U	57	ALA	N-CA-C	5.50	117.71	108.96
3	C	124	ILE	CA-C-N	5.50	130.50	122.41
3	C	124	ILE	C-N-CA	5.50	130.50	122.41
3	Y	124	ILE	CA-C-N	5.50	130.50	122.41
3	Y	124	ILE	C-N-CA	5.50	130.50	122.41
3	I	57	ALA	N-CA-C	5.50	117.71	108.96
3	4	97	ALA	CA-C-N	5.50	128.07	120.92
3	4	97	ALA	C-N-CA	5.50	128.07	120.92
3	C	57	ALA	N-CA-C	5.50	117.70	108.96
3	1	206	GLY	CA-C-N	5.50	128.67	120.31
3	1	206	GLY	C-N-CA	5.50	128.67	120.31
3	F	124	ILE	CA-C-N	5.50	130.49	122.41
3	F	124	ILE	C-N-CA	5.50	130.49	122.41
3	I	124	ILE	CA-C-N	5.50	130.49	122.41
3	I	124	ILE	C-N-CA	5.50	130.49	122.41
3	L	187	ARG	CA-C-N	5.50	128.10	120.29
3	L	187	ARG	C-N-CA	5.50	128.10	120.29
3	O	300	PRO	CA-C-N	5.50	131.44	122.81
3	O	300	PRO	C-N-CA	5.50	131.44	122.81
3	V	57	ALA	N-CA-C	5.50	117.70	108.96
3	V	124	ILE	CA-C-N	5.50	130.49	122.41
3	V	124	ILE	C-N-CA	5.50	130.49	122.41
3	O	57	ALA	N-CA-C	5.50	117.70	108.96
3	4	57	ALA	N-CA-C	5.50	117.70	108.96
3	C	187	ARG	CA-C-N	5.49	128.09	120.29
3	C	187	ARG	C-N-CA	5.49	128.09	120.29
3	C	206	GLY	CA-C-N	5.49	128.66	120.31
3	C	206	GLY	C-N-CA	5.49	128.66	120.31
3	L	300	PRO	CA-C-N	5.49	131.43	122.81
3	L	300	PRO	C-N-CA	5.49	131.43	122.81
3	R	206	GLY	CA-C-N	5.49	128.66	120.31
3	R	206	GLY	C-N-CA	5.49	128.66	120.31
3	1	57	ALA	N-CA-C	5.49	117.69	108.96
3	C	300	PRO	CA-C-N	5.49	131.43	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	300	PRO	C-N-CA	5.49	131.43	122.81
3	L	443	ARG	CA-CB-CG	5.49	125.08	114.10
3	F	381	GLN	CA-C-N	5.49	127.91	120.44
3	F	381	GLN	C-N-CA	5.49	127.91	120.44
3	1	124	ILE	CA-C-N	5.49	130.48	122.41
3	1	124	ILE	C-N-CA	5.49	130.48	122.41
3	1	381	GLN	CA-C-N	5.49	127.90	120.44
3	1	381	GLN	C-N-CA	5.49	127.90	120.44
3	7	206	GLY	CA-C-N	5.49	128.65	120.31
3	7	206	GLY	C-N-CA	5.49	128.65	120.31
3	I	300	PRO	CA-C-N	5.49	131.42	122.81
3	I	300	PRO	C-N-CA	5.49	131.42	122.81
3	R	57	ALA	N-CA-C	5.49	117.68	108.96
3	R	187	ARG	CA-C-N	5.49	128.08	120.29
3	R	187	ARG	C-N-CA	5.49	128.08	120.29
3	Y	443	ARG	CA-CB-CG	5.49	125.07	114.10
3	1	187	ARG	CA-C-N	5.49	128.08	120.29
3	1	187	ARG	C-N-CA	5.49	128.08	120.29
3	1	443	ARG	CA-CB-CG	5.49	125.07	114.10
3	U	206	GLY	CA-C-N	5.49	128.65	120.31
3	U	206	GLY	C-N-CA	5.49	128.65	120.31
3	U	300	PRO	CA-C-N	5.49	131.42	122.81
3	U	300	PRO	C-N-CA	5.49	131.42	122.81
3	C	443	ARG	CA-CB-CG	5.48	125.07	114.10
3	F	57	ALA	N-CA-C	5.48	117.68	108.96
3	I	443	ARG	CA-CB-CG	5.48	125.07	114.10
3	O	97	ALA	CA-C-N	5.48	128.05	120.92
3	O	97	ALA	C-N-CA	5.48	128.05	120.92
3	O	443	ARG	CA-CB-CG	5.48	125.07	114.10
3	4	443	ARG	CA-CB-CG	5.48	125.06	114.10
3	7	124	ILE	CA-C-N	5.48	130.47	122.41
3	7	124	ILE	C-N-CA	5.48	130.47	122.41
3	L	381	GLN	CA-C-N	5.48	127.89	120.44
3	L	381	GLN	C-N-CA	5.48	127.89	120.44
3	R	443	ARG	CA-CB-CG	5.48	125.06	114.10
3	Y	206	GLY	CA-C-N	5.48	128.64	120.31
3	Y	206	GLY	C-N-CA	5.48	128.64	120.31
3	Y	300	PRO	CA-C-N	5.48	131.42	122.81
3	Y	300	PRO	C-N-CA	5.48	131.42	122.81
3	4	187	ARG	CA-C-N	5.48	128.07	120.29
3	4	187	ARG	C-N-CA	5.48	128.07	120.29
3	7	443	ARG	CA-CB-CG	5.48	125.06	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	300	PRO	CA-C-N	5.48	131.41	122.81
3	F	300	PRO	C-N-CA	5.48	131.41	122.81
3	O	187	ARG	CA-C-N	5.48	128.07	120.29
3	O	187	ARG	C-N-CA	5.48	128.07	120.29
3	U	443	ARG	CA-CB-CG	5.48	125.06	114.10
2	K	134	TRP	N-CA-CB	5.48	118.44	109.95
2	Q	134	TRP	N-CA-CB	5.48	118.44	109.95
3	V	381	GLN	CA-C-N	5.48	127.89	120.44
3	V	381	GLN	C-N-CA	5.48	127.89	120.44
3	V	443	ARG	CA-CB-CG	5.48	125.06	114.10
3	1	274	HIS	CA-C-N	5.48	130.89	123.11
3	1	274	HIS	C-N-CA	5.48	130.89	123.11
3	L	57	ALA	N-CA-C	5.48	117.67	108.96
3	O	274	HIS	CA-C-N	5.47	130.88	123.11
3	O	274	HIS	C-N-CA	5.47	130.88	123.11
2	9	134	TRP	N-CA-CB	5.47	118.44	109.95
2	3	134	TRP	N-CA-CB	5.47	118.43	109.95
3	F	187	ARG	CA-C-N	5.47	128.06	120.29
3	F	187	ARG	C-N-CA	5.47	128.06	120.29
3	F	443	ARG	CA-CB-CG	5.47	125.04	114.10
3	R	300	PRO	CA-C-N	5.47	131.40	122.81
3	R	300	PRO	C-N-CA	5.47	131.40	122.81
3	L	175	VAL	CA-C-N	5.47	131.17	123.30
3	L	175	VAL	C-N-CA	5.47	131.17	123.30
3	L	206	GLY	CA-C-N	5.47	128.62	120.31
3	L	206	GLY	C-N-CA	5.47	128.62	120.31
3	Y	404	ARG	CG-CD-NE	5.47	124.03	112.00
3	L	404	ARG	CG-CD-NE	5.46	124.02	112.00
3	7	300	PRO	CA-C-N	5.46	131.39	122.81
3	7	300	PRO	C-N-CA	5.46	131.39	122.81
3	I	404	ARG	CG-CD-NE	5.46	124.02	112.00
3	U	187	ARG	CA-C-N	5.46	128.05	120.29
3	U	187	ARG	C-N-CA	5.46	128.05	120.29
2	B	134	TRP	N-CA-CB	5.46	118.42	109.95
3	F	206	GLY	CA-C-N	5.46	128.61	120.31
3	F	206	GLY	C-N-CA	5.46	128.61	120.31
2	X	134	TRP	N-CA-CB	5.46	118.42	109.95
3	Y	175	VAL	CA-C-N	5.46	131.16	123.30
3	Y	175	VAL	C-N-CA	5.46	131.16	123.30
2	N	134	TRP	N-CA-CB	5.46	118.41	109.95
3	I	274	HIS	CA-C-N	5.46	130.86	123.11
3	I	274	HIS	C-N-CA	5.46	130.86	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	404	ARG	CG-CD-NE	5.46	124.01	112.00
3	V	404	ARG	CG-CD-NE	5.46	124.01	112.00
2	0	134	TRP	N-CA-CB	5.46	118.41	109.95
3	7	404	ARG	CG-CD-NE	5.46	124.01	112.00
3	U	404	ARG	CG-CD-NE	5.46	124.01	112.00
2	E	134	TRP	N-CA-CB	5.46	118.41	109.95
3	R	175	VAL	CA-C-N	5.46	131.16	123.30
3	R	175	VAL	C-N-CA	5.46	131.16	123.30
3	U	381	GLN	CA-C-N	5.46	127.86	120.44
3	U	381	GLN	C-N-CA	5.46	127.86	120.44
3	C	381	GLN	CA-C-N	5.46	127.86	120.44
3	C	381	GLN	C-N-CA	5.46	127.86	120.44
3	C	404	ARG	CG-CD-NE	5.45	124.00	112.00
2	T	134	TRP	N-CA-CB	5.45	118.40	109.95
3	V	175	VAL	CA-C-N	5.45	131.15	123.30
3	V	175	VAL	C-N-CA	5.45	131.15	123.30
3	Y	274	HIS	CA-C-N	5.45	130.85	123.11
3	Y	274	HIS	C-N-CA	5.45	130.85	123.11
2	6	134	TRP	N-CA-CB	5.45	118.40	109.95
3	U	175	VAL	CA-C-N	5.45	131.15	123.30
3	U	175	VAL	C-N-CA	5.45	131.15	123.30
3	R	274	HIS	CA-C-N	5.45	130.85	123.11
3	R	274	HIS	C-N-CA	5.45	130.85	123.11
3	4	381	GLN	CA-C-N	5.45	127.85	120.44
3	4	381	GLN	C-N-CA	5.45	127.85	120.44
3	7	274	HIS	CA-C-N	5.45	130.85	123.11
3	7	274	HIS	C-N-CA	5.45	130.85	123.11
3	1	374	GLU	CA-C-N	5.45	127.52	120.44
3	1	374	GLU	C-N-CA	5.45	127.52	120.44
3	4	274	HIS	CA-C-N	5.45	130.85	123.11
3	4	274	HIS	C-N-CA	5.45	130.85	123.11
3	4	404	ARG	CG-CD-NE	5.45	123.99	112.00
3	F	374	GLU	CA-C-N	5.45	127.52	120.44
3	F	374	GLU	C-N-CA	5.45	127.52	120.44
3	I	381	GLN	CA-C-N	5.45	127.84	120.44
3	I	381	GLN	C-N-CA	5.45	127.84	120.44
3	R	404	ARG	CG-CD-NE	5.45	123.98	112.00
3	Y	381	GLN	CA-C-N	5.45	127.85	120.44
3	Y	381	GLN	C-N-CA	5.45	127.85	120.44
3	1	185	MET	CB-CG-SD	5.45	129.03	112.70
3	4	185	MET	CB-CG-SD	5.45	129.03	112.70
3	Y	185	MET	CB-CG-SD	5.44	129.03	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1	404	ARG	CG-CD-NE	5.44	123.97	112.00
3	C	274	HIS	CA-C-N	5.44	130.83	123.11
3	C	274	HIS	C-N-CA	5.44	130.83	123.11
2	H	134	TRP	N-CA-CB	5.44	118.38	109.95
3	I	175	VAL	CA-C-N	5.44	131.13	123.30
3	I	175	VAL	C-N-CA	5.44	131.13	123.30
3	R	185	MET	CB-CG-SD	5.44	129.02	112.70
3	V	374	GLU	CA-C-N	5.44	127.51	120.44
3	V	374	GLU	C-N-CA	5.44	127.51	120.44
3	U	274	HIS	CA-C-N	5.44	130.83	123.11
3	U	274	HIS	C-N-CA	5.44	130.83	123.11
3	C	185	MET	CB-CG-SD	5.44	129.01	112.70
3	L	274	HIS	CA-C-N	5.44	130.83	123.11
3	L	274	HIS	C-N-CA	5.44	130.83	123.11
3	U	185	MET	CB-CG-SD	5.43	129.00	112.70
3	U	374	GLU	CA-C-N	5.43	127.51	120.44
3	U	374	GLU	C-N-CA	5.43	127.51	120.44
3	C	175	VAL	CA-C-N	5.43	131.12	123.30
3	C	175	VAL	C-N-CA	5.43	131.12	123.30
3	F	404	ARG	CG-CD-NE	5.43	123.95	112.00
3	O	175	VAL	CA-C-N	5.43	131.12	123.30
3	O	175	VAL	C-N-CA	5.43	131.12	123.30
3	7	175	VAL	CA-C-N	5.43	131.12	123.30
3	7	175	VAL	C-N-CA	5.43	131.12	123.30
3	7	185	MET	CB-CG-SD	5.43	129.00	112.70
3	I	185	MET	CB-CG-SD	5.43	128.99	112.70
3	F	185	MET	CB-CG-SD	5.43	128.99	112.70
3	4	175	VAL	CA-C-N	5.43	131.12	123.30
3	4	175	VAL	C-N-CA	5.43	131.12	123.30
3	4	374	GLU	CA-C-N	5.43	127.50	120.44
3	4	374	GLU	C-N-CA	5.43	127.50	120.44
3	C	374	GLU	CA-C-N	5.43	127.50	120.44
3	C	374	GLU	C-N-CA	5.43	127.50	120.44
3	O	95	LYS	CA-C-N	5.43	130.80	121.63
3	O	95	LYS	C-N-CA	5.43	130.80	121.63
3	7	381	GLN	CA-C-N	5.43	127.82	120.44
3	7	381	GLN	C-N-CA	5.43	127.82	120.44
3	L	374	GLU	CA-C-N	5.43	127.49	120.44
3	L	374	GLU	C-N-CA	5.43	127.49	120.44
3	O	185	MET	CB-CG-SD	5.43	128.98	112.70
3	7	374	GLU	CA-C-N	5.43	127.50	120.44
3	7	374	GLU	C-N-CA	5.43	127.50	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	95	LYS	CA-C-N	5.42	130.80	121.63
3	F	95	LYS	C-N-CA	5.42	130.80	121.63
3	L	185	MET	CB-CG-SD	5.42	128.97	112.70
3	V	185	MET	CB-CG-SD	5.42	128.97	112.70
3	V	274	HIS	CA-C-N	5.42	130.81	123.11
3	V	274	HIS	C-N-CA	5.42	130.81	123.11
3	1	175	VAL	CA-C-N	5.42	131.11	123.30
3	1	175	VAL	C-N-CA	5.42	131.11	123.30
3	F	175	VAL	CA-C-N	5.42	131.11	123.30
3	F	175	VAL	C-N-CA	5.42	131.11	123.30
1	2	32	TYR	CA-CB-CG	5.42	123.66	113.90
3	7	95	LYS	CA-C-N	5.42	130.79	121.63
3	7	95	LYS	C-N-CA	5.42	130.79	121.63
3	U	42	GLU	CA-CB-CG	5.42	124.94	114.10
3	7	343	ARG	NE-CZ-NH2	-5.42	114.33	119.20
3	U	137	ASP	CA-C-N	5.42	132.14	121.58
3	U	137	ASP	C-N-CA	5.42	132.14	121.58
3	I	92	ARG	CB-CG-CD	5.42	123.75	111.30
2	N	128	ASN	CA-C-N	5.42	129.82	122.19
2	N	128	ASN	C-N-CA	5.42	129.82	122.19
3	R	374	GLU	CA-C-N	5.41	127.48	120.44
3	R	374	GLU	C-N-CA	5.41	127.48	120.44
3	Y	95	LYS	CA-C-N	5.41	130.78	121.63
3	Y	95	LYS	C-N-CA	5.41	130.78	121.63
3	L	92	ARG	CB-CG-CD	5.41	123.75	111.30
3	1	92	ARG	CB-CG-CD	5.41	123.75	111.30
3	7	92	ARG	CB-CG-CD	5.41	123.75	111.30
3	F	274	HIS	CA-C-N	5.41	130.79	123.11
3	F	274	HIS	C-N-CA	5.41	130.79	123.11
3	L	95	LYS	CA-C-N	5.41	130.77	121.63
3	L	95	LYS	C-N-CA	5.41	130.77	121.63
3	V	95	LYS	CA-C-N	5.41	130.77	121.63
3	V	95	LYS	C-N-CA	5.41	130.77	121.63
3	Y	32	ILE	CA-C-N	5.41	129.83	120.58
3	Y	32	ILE	C-N-CA	5.41	129.83	120.58
3	4	95	LYS	CA-C-N	5.41	130.77	121.63
3	4	95	LYS	C-N-CA	5.41	130.77	121.63
3	C	92	ARG	CB-CG-CD	5.41	123.73	111.30
3	C	95	LYS	CA-C-N	5.41	130.76	121.63
3	C	95	LYS	C-N-CA	5.41	130.76	121.63
3	O	374	GLU	CA-C-N	5.41	127.47	120.44
3	O	374	GLU	C-N-CA	5.41	127.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	32	ILE	CA-C-N	5.41	129.82	120.58
3	4	32	ILE	C-N-CA	5.41	129.82	120.58
3	4	92	ARG	CB-CG-CD	5.40	123.73	111.30
1	A	32	TYR	CA-CB-CG	5.40	123.62	113.90
3	I	42	GLU	CA-CB-CG	5.40	124.91	114.10
1	M	32	TYR	CA-CB-CG	5.40	123.63	113.90
3	R	95	LYS	CA-C-N	5.40	130.76	121.63
3	R	95	LYS	C-N-CA	5.40	130.76	121.63
3	V	92	ARG	CB-CG-CD	5.40	123.73	111.30
3	U	95	LYS	CA-C-N	5.40	130.76	121.63
3	U	95	LYS	C-N-CA	5.40	130.76	121.63
3	F	92	ARG	CB-CG-CD	5.40	123.72	111.30
3	I	95	LYS	CA-C-N	5.40	130.76	121.63
3	I	95	LYS	C-N-CA	5.40	130.76	121.63
3	V	137	ASP	CA-C-N	5.40	132.11	121.58
3	V	137	ASP	C-N-CA	5.40	132.11	121.58
1	W	32	TYR	CA-CB-CG	5.40	123.62	113.90
3	O	137	ASP	CA-C-N	5.40	132.11	121.58
3	O	137	ASP	C-N-CA	5.40	132.11	121.58
3	1	32	ILE	CA-C-N	5.40	129.81	120.58
3	1	32	ILE	C-N-CA	5.40	129.81	120.58
3	V	42	GLU	CA-CB-CG	5.40	124.90	114.10
3	4	42	GLU	CA-CB-CG	5.40	124.90	114.10
1	8	32	TYR	CA-CB-CG	5.40	123.61	113.90
3	O	381	GLN	CA-C-N	5.40	127.78	120.44
3	O	381	GLN	C-N-CA	5.40	127.78	120.44
3	C	32	ILE	CA-C-N	5.39	129.80	120.58
3	C	32	ILE	C-N-CA	5.39	129.80	120.58
3	Y	42	GLU	CA-CB-CG	5.39	124.89	114.10
3	U	32	ILE	CA-C-N	5.39	129.80	120.58
3	U	32	ILE	C-N-CA	5.39	129.80	120.58
3	U	92	ARG	CB-CG-CD	5.39	123.71	111.30
3	F	137	ASP	CA-C-N	5.39	132.10	121.58
3	F	137	ASP	C-N-CA	5.39	132.10	121.58
3	I	374	GLU	CA-C-N	5.39	127.45	120.44
3	I	374	GLU	C-N-CA	5.39	127.45	120.44
3	R	32	ILE	CA-C-N	5.39	129.80	120.58
3	R	32	ILE	C-N-CA	5.39	129.80	120.58
3	R	92	ARG	CB-CG-CD	5.39	123.70	111.30
2	X	128	ASN	CA-C-N	5.39	129.79	122.19
2	X	128	ASN	C-N-CA	5.39	129.79	122.19
1	5	32	TYR	CA-CB-CG	5.39	123.61	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	158	THR	CA-C-N	5.39	130.59	122.99
3	4	158	THR	C-N-CA	5.39	130.59	122.99
3	7	32	ILE	CA-C-N	5.39	129.80	120.58
3	7	32	ILE	C-N-CA	5.39	129.80	120.58
3	C	42	GLU	CA-CB-CG	5.39	124.88	114.10
3	F	42	GLU	CA-CB-CG	5.39	124.88	114.10
2	H	128	ASN	CA-C-N	5.39	129.79	122.19
2	H	128	ASN	C-N-CA	5.39	129.79	122.19
1	P	32	TYR	CA-CB-CG	5.39	123.60	113.90
3	R	381	GLN	CA-C-N	5.39	127.77	120.44
3	R	381	GLN	C-N-CA	5.39	127.77	120.44
3	Y	374	GLU	CA-C-N	5.39	127.45	120.44
3	Y	374	GLU	C-N-CA	5.39	127.45	120.44
3	U	158	THR	CA-C-N	5.39	130.59	122.99
3	U	158	THR	C-N-CA	5.39	130.59	122.99
1	J	32	TYR	CA-CB-CG	5.39	123.60	113.90
3	1	95	LYS	CA-C-N	5.39	130.74	121.63
3	1	95	LYS	C-N-CA	5.39	130.74	121.63
2	K	128	ASN	CA-C-N	5.39	129.78	122.19
2	K	128	ASN	C-N-CA	5.39	129.78	122.19
3	L	343	ARG	NE-CZ-NH2	-5.39	114.35	119.20
2	9	128	ASN	CA-C-N	5.39	129.78	122.19
2	9	128	ASN	C-N-CA	5.39	129.78	122.19
2	B	128	ASN	CA-C-N	5.38	129.78	122.19
2	B	128	ASN	C-N-CA	5.38	129.78	122.19
3	F	158	THR	CA-C-N	5.38	130.58	122.99
3	F	158	THR	C-N-CA	5.38	130.58	122.99
3	R	42	GLU	CA-CB-CG	5.38	124.87	114.10
2	T	128	ASN	CA-C-N	5.38	129.78	122.19
2	T	128	ASN	C-N-CA	5.38	129.78	122.19
3	7	158	THR	CA-C-N	5.38	130.58	122.99
3	7	158	THR	C-N-CA	5.38	130.58	122.99
3	C	137	ASP	CA-C-N	5.38	132.08	121.58
3	C	137	ASP	C-N-CA	5.38	132.08	121.58
3	L	32	ILE	CA-C-N	5.38	129.78	120.58
3	L	32	ILE	C-N-CA	5.38	129.78	120.58
3	L	137	ASP	CA-C-N	5.38	132.08	121.58
3	L	137	ASP	C-N-CA	5.38	132.08	121.58
3	O	92	ARG	CB-CG-CD	5.38	123.68	111.30
2	6	128	ASN	CA-C-N	5.38	129.78	122.19
2	6	128	ASN	C-N-CA	5.38	129.78	122.19
3	I	159	PHE	CA-C-N	5.38	130.58	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	159	PHE	C-N-CA	5.38	130.58	122.99
3	L	158	THR	CA-C-N	5.38	130.58	122.99
3	L	158	THR	C-N-CA	5.38	130.58	122.99
3	Y	92	ARG	CB-CG-CD	5.38	123.68	111.30
3	1	42	GLU	CA-CB-CG	5.38	124.86	114.10
1	D	32	TYR	CA-CB-CG	5.38	123.58	113.90
3	V	32	ILE	CA-C-N	5.38	129.78	120.58
3	V	32	ILE	C-N-CA	5.38	129.78	120.58
3	7	159	PHE	CA-C-N	5.38	130.58	122.99
3	7	159	PHE	C-N-CA	5.38	130.58	122.99
3	C	158	THR	CA-C-N	5.38	130.57	122.99
3	C	158	THR	C-N-CA	5.38	130.57	122.99
3	F	32	ILE	CA-C-N	5.38	129.78	120.58
3	F	32	ILE	C-N-CA	5.38	129.78	120.58
3	I	137	ASP	CA-C-N	5.38	132.07	121.58
3	I	137	ASP	C-N-CA	5.38	132.07	121.58
3	O	32	ILE	CA-C-N	5.38	129.78	120.58
3	O	32	ILE	C-N-CA	5.38	129.78	120.58
3	O	42	GLU	CA-CB-CG	5.38	124.86	114.10
3	O	158	THR	CA-C-N	5.38	130.57	122.99
3	O	158	THR	C-N-CA	5.38	130.57	122.99
3	Y	137	ASP	CA-C-N	5.38	132.07	121.58
3	Y	137	ASP	C-N-CA	5.38	132.07	121.58
2	0	128	ASN	CA-C-N	5.38	129.77	122.19
2	0	128	ASN	C-N-CA	5.38	129.77	122.19
3	L	42	GLU	CA-CB-CG	5.38	124.85	114.10
2	Q	128	ASN	CA-C-N	5.38	129.77	122.19
2	Q	128	ASN	C-N-CA	5.38	129.77	122.19
1	S	32	TYR	CA-CB-CG	5.38	123.58	113.90
3	Y	158	THR	CA-C-N	5.38	130.57	122.99
3	Y	158	THR	C-N-CA	5.38	130.57	122.99
2	3	128	ASN	CA-C-N	5.38	129.77	122.19
2	3	128	ASN	C-N-CA	5.38	129.77	122.19
1	G	32	TYR	CA-CB-CG	5.38	123.58	113.90
1	Z	32	TYR	CA-CB-CG	5.38	123.58	113.90
3	1	343	ARG	NE-CZ-NH2	-5.38	114.36	119.20
3	I	158	THR	CA-C-N	5.37	130.57	122.99
3	I	158	THR	C-N-CA	5.37	130.57	122.99
3	R	137	ASP	CA-C-N	5.37	132.06	121.58
3	R	137	ASP	C-N-CA	5.37	132.06	121.58
3	R	158	THR	CA-C-N	5.37	130.57	122.99
3	R	158	THR	C-N-CA	5.37	130.57	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	42	GLU	CA-CB-CG	5.37	124.85	114.10
3	F	159	PHE	CA-C-N	5.37	130.56	122.99
3	F	159	PHE	C-N-CA	5.37	130.56	122.99
3	I	32	ILE	CA-C-N	5.37	129.76	120.58
3	I	32	ILE	C-N-CA	5.37	129.76	120.58
3	V	343	ARG	NE-CZ-NH2	-5.37	114.37	119.20
3	7	460	TRP	CA-C-N	5.37	131.94	121.63
3	7	460	TRP	C-N-CA	5.37	131.94	121.63
3	U	343	ARG	NE-CZ-NH2	-5.37	114.37	119.20
3	C	343	ARG	NE-CZ-NH2	-5.37	114.37	119.20
3	V	159	PHE	CA-C-N	5.37	130.56	122.99
3	V	159	PHE	C-N-CA	5.37	130.56	122.99
3	V	492	THR	CA-CB-OG1	5.37	117.65	109.60
3	7	137	ASP	CA-C-N	5.37	132.04	121.58
3	7	137	ASP	C-N-CA	5.37	132.04	121.58
3	O	492	THR	CA-CB-OG1	5.36	117.65	109.60
3	4	159	PHE	CA-C-N	5.36	130.55	122.99
3	4	159	PHE	C-N-CA	5.36	130.55	122.99
3	Y	159	PHE	CA-C-N	5.36	130.55	122.99
3	Y	159	PHE	C-N-CA	5.36	130.55	122.99
3	4	137	ASP	CA-C-N	5.36	132.03	121.58
3	4	137	ASP	C-N-CA	5.36	132.03	121.58
3	R	159	PHE	CA-C-N	5.36	130.54	122.99
3	R	159	PHE	C-N-CA	5.36	130.54	122.99
3	V	158	THR	CA-C-N	5.36	130.54	122.99
3	V	158	THR	C-N-CA	5.36	130.54	122.99
3	1	159	PHE	CA-C-N	5.36	130.54	122.99
3	1	159	PHE	C-N-CA	5.36	130.54	122.99
3	C	159	PHE	CA-C-N	5.36	130.54	122.99
3	C	159	PHE	C-N-CA	5.36	130.54	122.99
3	4	492	THR	CA-CB-OG1	5.36	117.63	109.60
3	1	137	ASP	CA-C-N	5.35	132.02	121.58
3	1	137	ASP	C-N-CA	5.35	132.02	121.58
3	1	158	THR	CA-C-N	5.35	130.54	122.99
3	1	158	THR	C-N-CA	5.35	130.54	122.99
3	O	159	PHE	CA-C-N	5.35	130.53	122.99
3	O	159	PHE	C-N-CA	5.35	130.53	122.99
3	L	159	PHE	CA-C-N	5.35	130.53	122.99
3	L	159	PHE	C-N-CA	5.35	130.53	122.99
3	V	460	TRP	CA-C-N	5.35	131.90	121.63
3	V	460	TRP	C-N-CA	5.35	131.90	121.63
3	Y	343	ARG	NE-CZ-NH2	-5.35	114.39	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	128	ASN	CA-C-N	5.35	129.73	122.19
2	E	128	ASN	C-N-CA	5.35	129.73	122.19
3	F	343	ARG	NE-CZ-NH2	-5.35	114.39	119.20
3	L	460	TRP	CA-C-N	5.35	131.90	121.63
3	L	460	TRP	C-N-CA	5.35	131.90	121.63
3	F	492	THR	CA-CB-OG1	5.34	117.62	109.60
3	U	492	THR	CA-CB-OG1	5.34	117.62	109.60
3	U	460	TRP	CA-C-N	5.34	131.89	121.63
3	U	460	TRP	C-N-CA	5.34	131.89	121.63
3	C	492	THR	CA-CB-OG1	5.34	117.61	109.60
3	I	108	MET	CB-CG-SD	-5.34	96.67	112.70
3	I	448	LYS	CG-CD-CE	5.34	123.58	111.30
3	7	108	MET	CB-CG-SD	-5.34	96.67	112.70
3	O	343	ARG	NE-CZ-NH2	-5.34	114.39	119.20
3	4	343	ARG	NE-CZ-NH2	-5.34	114.39	119.20
3	U	448	LYS	CG-CD-CE	5.34	123.58	111.30
3	I	460	TRP	CA-C-N	5.34	131.88	121.63
3	I	460	TRP	C-N-CA	5.34	131.88	121.63
3	L	108	MET	CB-CG-SD	-5.34	96.69	112.70
3	R	492	THR	CA-CB-OG1	5.34	117.60	109.60
3	U	108	MET	CB-CG-SD	-5.34	96.69	112.70
3	U	159	PHE	CA-C-N	5.34	130.51	122.99
3	U	159	PHE	C-N-CA	5.34	130.51	122.99
3	1	108	MET	CB-CG-SD	-5.33	96.70	112.70
3	7	448	LYS	CG-CD-CE	5.33	123.57	111.30
3	F	565	MET	N-CA-C	-5.33	104.54	111.74
3	R	225	GLU	CA-C-N	5.33	128.16	120.38
3	R	225	GLU	C-N-CA	5.33	128.16	120.38
3	4	108	MET	CB-CG-SD	-5.33	96.70	112.70
3	C	460	TRP	CA-C-N	5.33	131.86	121.63
3	C	460	TRP	C-N-CA	5.33	131.86	121.63
3	I	225	GLU	CA-C-N	5.33	128.16	120.38
3	I	225	GLU	C-N-CA	5.33	128.16	120.38
3	L	492	THR	CA-CB-OG1	5.33	117.59	109.60
3	V	108	MET	CB-CG-SD	-5.33	96.72	112.70
3	C	108	MET	CB-CG-SD	-5.33	96.72	112.70
3	L	102	SER	CA-C-N	5.33	134.32	122.07
3	L	102	SER	C-N-CA	5.33	134.32	122.07
3	O	102	SER	CA-C-N	5.33	134.32	122.07
3	O	102	SER	C-N-CA	5.33	134.32	122.07
3	I	102	SER	CA-C-N	5.33	134.32	122.07
3	I	102	SER	C-N-CA	5.33	134.32	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	343	ARG	NE-CZ-NH2	-5.33	114.41	119.20
3	F	225	GLU	CA-C-N	5.32	128.15	120.38
3	F	225	GLU	C-N-CA	5.32	128.15	120.38
3	O	108	MET	CB-CG-SD	-5.32	96.73	112.70
3	O	460	TRP	CA-C-N	5.32	131.85	121.63
3	O	460	TRP	C-N-CA	5.32	131.85	121.63
3	R	343	ARG	NE-CZ-NH2	-5.32	114.41	119.20
3	R	448	LYS	CG-CD-CE	5.32	123.54	111.30
3	Y	492	THR	CA-CB-OG1	5.32	117.59	109.60
3	4	460	TRP	CA-C-N	5.32	131.85	121.63
3	4	460	TRP	C-N-CA	5.32	131.85	121.63
1	W	1	MET	CB-CG-SD	5.32	128.66	112.70
3	F	108	MET	CB-CG-SD	-5.32	96.74	112.70
3	F	460	TRP	CA-C-N	5.32	131.84	121.63
3	F	460	TRP	C-N-CA	5.32	131.84	121.63
3	V	448	LYS	CG-CD-CE	5.32	123.54	111.30
3	Y	108	MET	CB-CG-SD	-5.32	96.74	112.70
3	1	102	SER	CA-C-N	5.32	134.31	122.07
3	1	102	SER	C-N-CA	5.32	134.31	122.07
3	1	492	THR	CA-CB-OG1	5.32	117.58	109.60
3	O	448	LYS	CG-CD-CE	5.32	123.53	111.30
3	1	268	PHE	CB-CG-CD1	5.32	129.74	120.70
3	4	362	PHE	CA-C-N	5.32	130.90	121.80
3	4	362	PHE	C-N-CA	5.32	130.90	121.80
3	C	448	LYS	CG-CD-CE	5.32	123.53	111.30
3	4	225	GLU	CA-C-N	5.32	128.14	120.38
3	4	225	GLU	C-N-CA	5.32	128.14	120.38
3	7	225	GLU	CA-C-N	5.32	128.14	120.38
3	7	225	GLU	C-N-CA	5.32	128.14	120.38
3	C	225	GLU	CA-C-N	5.32	128.14	120.38
3	C	225	GLU	C-N-CA	5.32	128.14	120.38
3	F	102	SER	CA-C-N	5.32	134.30	122.07
3	F	102	SER	C-N-CA	5.32	134.30	122.07
3	R	108	MET	CB-CG-SD	-5.32	96.75	112.70
1	S	1	MET	CB-CG-SD	5.32	128.65	112.70
3	1	225	GLU	CA-C-N	5.32	128.14	120.38
3	1	225	GLU	C-N-CA	5.32	128.14	120.38
3	1	460	TRP	CA-C-N	5.32	131.84	121.63
3	1	460	TRP	C-N-CA	5.32	131.84	121.63
3	U	102	SER	CA-C-N	5.32	134.29	122.07
3	U	102	SER	C-N-CA	5.32	134.29	122.07
3	L	268	PHE	CB-CG-CD1	5.31	129.73	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	362	PHE	CA-C-N	5.31	130.88	121.80
3	I	362	PHE	C-N-CA	5.31	130.88	121.80
3	L	448	LYS	CG-CD-CE	5.31	123.52	111.30
1	M	1	MET	CB-CG-SD	5.31	128.63	112.70
1	P	1	MET	CB-CG-SD	5.31	128.64	112.70
3	R	460	TRP	CA-C-N	5.31	131.83	121.63
3	R	460	TRP	C-N-CA	5.31	131.83	121.63
1	2	1	MET	CB-CG-SD	5.31	128.64	112.70
3	7	492	THR	CA-CB-OG1	5.31	117.57	109.60
1	J	92	LEU	CA-C-N	5.31	130.02	123.12
1	J	92	LEU	C-N-CA	5.31	130.02	123.12
3	O	225	GLU	CA-C-N	5.31	128.13	120.38
3	O	225	GLU	C-N-CA	5.31	128.13	120.38
3	R	453	ILE	CA-C-N	5.31	130.40	122.86
3	R	453	ILE	C-N-CA	5.31	130.40	122.86
3	V	268	PHE	CB-CG-CD1	5.31	129.73	120.70
3	Y	225	GLU	CA-C-N	5.31	128.13	120.38
3	Y	225	GLU	C-N-CA	5.31	128.13	120.38
3	1	565	MET	N-CA-C	-5.31	104.57	111.74
3	4	102	SER	CA-C-N	5.31	134.28	122.07
3	4	102	SER	C-N-CA	5.31	134.28	122.07
3	U	268	PHE	CB-CG-CD1	5.31	129.72	120.70
3	F	448	LYS	CG-CD-CE	5.31	123.51	111.30
3	I	492	THR	CA-CB-OG1	5.31	117.56	109.60
3	L	565	MET	N-CA-C	-5.31	104.57	111.74
3	R	102	SER	CA-C-N	5.31	134.28	122.07
3	R	102	SER	C-N-CA	5.31	134.28	122.07
3	Y	565	MET	N-CA-C	-5.31	104.58	111.74
3	1	448	LYS	CG-CD-CE	5.31	123.50	111.30
3	4	448	LYS	CG-CD-CE	5.31	123.51	111.30
3	C	102	SER	CA-C-N	5.31	134.28	122.07
3	C	102	SER	C-N-CA	5.31	134.28	122.07
3	V	225	GLU	CA-C-N	5.31	128.13	120.38
3	V	225	GLU	C-N-CA	5.31	128.13	120.38
3	Y	362	PHE	CA-C-N	5.31	130.87	121.80
3	Y	362	PHE	C-N-CA	5.31	130.87	121.80
3	V	102	SER	CA-C-N	5.30	134.27	122.07
3	V	102	SER	C-N-CA	5.30	134.27	122.07
3	Y	448	LYS	CG-CD-CE	5.30	123.50	111.30
3	7	453	ILE	CA-C-N	5.30	130.39	122.86
3	7	453	ILE	C-N-CA	5.30	130.39	122.86
1	D	1	MET	CB-CG-SD	5.30	128.61	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1	MET	CB-CG-SD	5.30	128.60	112.70
3	V	362	PHE	CA-C-N	5.30	130.87	121.80
3	V	362	PHE	C-N-CA	5.30	130.87	121.80
3	4	565	MET	N-CA-C	-5.30	104.58	111.74
3	C	565	MET	N-CA-C	-5.30	104.59	111.74
3	R	565	MET	N-CA-C	-5.30	104.59	111.74
3	Y	102	SER	CA-C-N	5.30	134.26	122.07
3	Y	102	SER	C-N-CA	5.30	134.26	122.07
3	Y	268	PHE	CB-CG-CD1	5.30	129.71	120.70
3	4	268	PHE	CB-CG-CD1	5.30	129.71	120.70
3	4	453	ILE	CA-C-N	5.30	130.38	122.86
3	4	453	ILE	C-N-CA	5.30	130.38	122.86
3	7	102	SER	CA-C-N	5.30	134.26	122.07
3	7	102	SER	C-N-CA	5.30	134.26	122.07
1	8	1	MET	CB-CG-SD	5.30	128.60	112.70
1	G	1	MET	CB-CG-SD	5.30	128.59	112.70
1	J	1	MET	CB-CG-SD	5.30	128.59	112.70
3	1	362	PHE	CA-C-N	5.30	130.86	121.80
3	1	362	PHE	C-N-CA	5.30	130.86	121.80
1	5	1	MET	CB-CG-SD	5.30	128.59	112.70
3	U	565	MET	N-CA-C	-5.30	104.59	111.74
3	7	565	MET	N-CA-C	-5.29	104.59	111.74
3	I	565	MET	N-CA-C	-5.29	104.60	111.74
3	R	362	PHE	CA-C-N	5.29	130.85	121.80
3	R	362	PHE	C-N-CA	5.29	130.85	121.80
3	V	453	ILE	CA-C-N	5.29	130.37	122.86
3	V	453	ILE	C-N-CA	5.29	130.37	122.86
3	7	268	PHE	CB-CG-CD1	5.29	129.70	120.70
3	F	116	VAL	CA-C-N	5.29	129.19	122.37
3	F	116	VAL	C-N-CA	5.29	129.19	122.37
1	M	92	LEU	CA-C-N	5.29	130.00	123.12
1	M	92	LEU	C-N-CA	5.29	130.00	123.12
3	V	565	MET	N-CA-C	-5.29	104.60	111.74
1	Z	1	MET	CB-CG-SD	5.29	128.57	112.70
3	U	453	ILE	CA-C-N	5.29	130.37	122.86
3	U	453	ILE	C-N-CA	5.29	130.37	122.86
3	C	268	PHE	CB-CG-CD1	5.29	129.69	120.70
3	I	268	PHE	CB-CG-CD1	5.29	129.69	120.70
3	L	453	ILE	CA-C-N	5.29	130.37	122.86
3	L	453	ILE	C-N-CA	5.29	130.37	122.86
3	R	116	VAL	CA-C-N	5.29	129.19	122.37
3	R	116	VAL	C-N-CA	5.29	129.19	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	453	ILE	CA-C-N	5.29	130.37	122.86
3	C	453	ILE	C-N-CA	5.29	130.37	122.86
3	C	362	PHE	CA-C-N	5.29	130.84	121.80
3	C	362	PHE	C-N-CA	5.29	130.84	121.80
3	L	362	PHE	CA-C-N	5.29	130.84	121.80
3	L	362	PHE	C-N-CA	5.29	130.84	121.80
3	O	362	PHE	CA-C-N	5.29	130.84	121.80
3	O	362	PHE	C-N-CA	5.29	130.84	121.80
3	O	453	ILE	CA-C-N	5.28	130.36	122.86
3	O	453	ILE	C-N-CA	5.28	130.36	122.86
3	O	565	MET	N-CA-C	-5.28	104.61	111.74
3	R	268	PHE	CB-CG-CD1	5.28	129.68	120.70
3	F	453	ILE	CA-C-N	5.28	130.36	122.86
3	F	453	ILE	C-N-CA	5.28	130.36	122.86
3	I	453	ILE	CA-C-N	5.28	130.36	122.86
3	I	453	ILE	C-N-CA	5.28	130.36	122.86
3	O	268	PHE	CB-CG-CD1	5.28	129.68	120.70
3	7	362	PHE	CA-C-N	5.28	130.83	121.80
3	7	362	PHE	C-N-CA	5.28	130.83	121.80
3	U	362	PHE	CA-C-N	5.28	130.83	121.80
3	U	362	PHE	C-N-CA	5.28	130.83	121.80
1	P	92	LEU	CA-C-N	5.28	129.98	123.12
1	P	92	LEU	C-N-CA	5.28	129.98	123.12
3	F	362	PHE	CA-C-N	5.28	130.82	121.80
3	F	362	PHE	C-N-CA	5.28	130.82	121.80
3	L	225	GLU	CA-C-N	5.27	128.08	120.38
3	L	225	GLU	C-N-CA	5.27	128.08	120.38
3	Y	116	VAL	CA-C-N	5.27	129.17	122.37
3	Y	116	VAL	C-N-CA	5.27	129.17	122.37
3	1	116	VAL	CA-C-N	5.27	129.17	122.37
3	1	116	VAL	C-N-CA	5.27	129.17	122.37
3	1	453	ILE	CA-C-N	5.27	130.35	122.86
3	1	453	ILE	C-N-CA	5.27	130.35	122.86
3	I	116	VAL	CA-C-N	5.27	129.17	122.37
3	I	116	VAL	C-N-CA	5.27	129.17	122.37
1	5	92	LEU	CA-C-N	5.27	129.97	123.12
1	5	92	LEU	C-N-CA	5.27	129.97	123.12
3	U	225	GLU	CA-C-N	5.27	128.07	120.38
3	U	225	GLU	C-N-CA	5.27	128.07	120.38
3	F	268	PHE	CB-CG-CD1	5.27	129.66	120.70
3	Y	453	ILE	CA-C-N	5.27	130.34	122.86
3	Y	453	ILE	C-N-CA	5.27	130.34	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	92	LEU	CA-C-N	5.27	129.97	123.12
1	W	92	LEU	C-N-CA	5.27	129.97	123.12
3	4	289	ILE	CA-C-N	5.26	131.45	121.97
3	4	289	ILE	C-N-CA	5.26	131.45	121.97
1	A	92	LEU	CA-C-N	5.26	129.96	123.12
1	A	92	LEU	C-N-CA	5.26	129.96	123.12
3	C	116	VAL	CA-C-N	5.26	129.16	122.37
3	C	116	VAL	C-N-CA	5.26	129.16	122.37
3	4	116	VAL	CA-C-N	5.26	129.16	122.37
3	4	116	VAL	C-N-CA	5.26	129.16	122.37
1	Z	92	LEU	CA-C-N	5.26	129.96	123.12
1	Z	92	LEU	C-N-CA	5.26	129.96	123.12
3	I	289	ILE	CA-C-N	5.26	131.44	121.97
3	I	289	ILE	C-N-CA	5.26	131.44	121.97
3	7	289	ILE	CA-C-N	5.26	131.43	121.97
3	7	289	ILE	C-N-CA	5.26	131.43	121.97
3	U	116	VAL	CA-C-N	5.26	129.15	122.37
3	U	116	VAL	C-N-CA	5.26	129.15	122.37
3	7	116	VAL	CA-C-N	5.25	129.15	122.37
3	7	116	VAL	C-N-CA	5.25	129.15	122.37
1	D	92	LEU	CA-C-N	5.25	129.95	123.12
1	D	92	LEU	C-N-CA	5.25	129.95	123.12
3	I	516	VAL	CA-C-N	5.25	130.02	123.14
3	I	516	VAL	C-N-CA	5.25	130.02	123.14
3	V	289	ILE	CA-C-N	5.25	131.43	121.97
3	V	289	ILE	C-N-CA	5.25	131.43	121.97
3	1	516	VAL	CA-C-N	5.25	130.02	123.14
3	1	516	VAL	C-N-CA	5.25	130.02	123.14
3	C	289	ILE	CA-C-N	5.25	131.42	121.97
3	C	289	ILE	C-N-CA	5.25	131.42	121.97
3	L	116	VAL	CA-C-N	5.25	129.14	122.37
3	L	116	VAL	C-N-CA	5.25	129.14	122.37
3	O	116	VAL	CA-C-N	5.25	129.14	122.37
3	O	116	VAL	C-N-CA	5.25	129.14	122.37
2	Q	157	GLU	CA-C-N	5.25	131.82	121.58
2	Q	157	GLU	C-N-CA	5.25	131.82	121.58
3	Y	289	ILE	CA-C-N	5.25	131.41	121.97
3	Y	289	ILE	C-N-CA	5.25	131.41	121.97
2	9	157	GLU	CA-C-N	5.25	131.81	121.58
2	9	157	GLU	C-N-CA	5.25	131.81	121.58
3	Y	516	VAL	CA-C-N	5.25	130.01	123.14
3	Y	516	VAL	C-N-CA	5.25	130.01	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	516	VAL	CA-C-N	5.25	130.01	123.14
3	7	516	VAL	C-N-CA	5.25	130.01	123.14
3	R	289	ILE	CA-C-N	5.24	131.41	121.97
3	R	289	ILE	C-N-CA	5.24	131.41	121.97
2	E	157	GLU	CA-C-N	5.24	131.80	121.58
2	E	157	GLU	C-N-CA	5.24	131.80	121.58
3	L	289	ILE	CA-C-N	5.24	131.40	121.97
3	L	289	ILE	C-N-CA	5.24	131.40	121.97
3	O	516	VAL	CA-C-N	5.24	130.01	123.14
3	O	516	VAL	C-N-CA	5.24	130.01	123.14
3	4	516	VAL	CA-C-N	5.24	130.00	123.14
3	4	516	VAL	C-N-CA	5.24	130.00	123.14
3	U	289	ILE	CA-C-N	5.24	131.40	121.97
3	U	289	ILE	C-N-CA	5.24	131.40	121.97
3	O	289	ILE	CA-C-N	5.24	131.40	121.97
3	O	289	ILE	C-N-CA	5.24	131.40	121.97
1	2	92	LEU	CA-C-N	5.24	129.93	123.12
1	2	92	LEU	C-N-CA	5.24	129.93	123.12
2	T	157	GLU	CA-C-N	5.24	131.79	121.58
2	T	157	GLU	C-N-CA	5.24	131.79	121.58
3	V	116	VAL	CA-C-N	5.24	129.12	122.37
3	V	116	VAL	C-N-CA	5.24	129.12	122.37
3	C	516	VAL	CA-C-N	5.23	130.00	123.14
3	C	516	VAL	C-N-CA	5.23	130.00	123.14
2	N	157	GLU	CA-C-N	5.23	131.79	121.58
2	N	157	GLU	C-N-CA	5.23	131.79	121.58
3	1	289	ILE	CA-C-N	5.23	131.39	121.97
3	1	289	ILE	C-N-CA	5.23	131.39	121.97
2	E	94	ARG	CD-NE-CZ	5.23	131.72	124.40
3	F	289	ILE	CA-C-N	5.23	131.39	121.97
3	F	289	ILE	C-N-CA	5.23	131.39	121.97
3	V	106	GLY	CA-C-N	5.23	128.43	122.36
3	V	106	GLY	C-N-CA	5.23	128.43	122.36
3	F	516	VAL	CA-C-N	5.23	129.99	123.14
3	F	516	VAL	C-N-CA	5.23	129.99	123.14
2	N	94	ARG	CD-NE-CZ	5.23	131.72	124.40
2	0	157	GLU	CA-C-N	5.23	131.78	121.58
2	0	157	GLU	C-N-CA	5.23	131.78	121.58
2	H	157	GLU	CA-C-N	5.23	131.77	121.58
2	H	157	GLU	C-N-CA	5.23	131.77	121.58
3	R	516	VAL	CA-C-N	5.23	129.99	123.14
3	R	516	VAL	C-N-CA	5.23	129.99	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	92	LEU	CA-C-N	5.23	129.91	123.12
1	S	92	LEU	C-N-CA	5.23	129.91	123.12
1	8	92	LEU	CA-C-N	5.23	129.92	123.12
1	8	92	LEU	C-N-CA	5.23	129.92	123.12
3	R	106	GLY	CA-C-N	5.22	128.42	122.36
3	R	106	GLY	C-N-CA	5.22	128.42	122.36
2	X	157	GLU	CA-C-N	5.22	131.77	121.58
2	X	157	GLU	C-N-CA	5.22	131.77	121.58
2	B	157	GLU	CA-C-N	5.22	131.76	121.58
2	B	157	GLU	C-N-CA	5.22	131.76	121.58
1	G	92	LEU	CA-C-N	5.22	129.91	123.12
1	G	92	LEU	C-N-CA	5.22	129.91	123.12
2	3	157	GLU	CA-C-N	5.22	131.76	121.58
2	3	157	GLU	C-N-CA	5.22	131.76	121.58
3	U	516	VAL	CA-C-N	5.22	129.98	123.14
3	U	516	VAL	C-N-CA	5.22	129.98	123.14
3	L	516	VAL	CA-C-N	5.22	129.98	123.14
3	L	516	VAL	C-N-CA	5.22	129.98	123.14
3	F	465	ASP	CA-CB-CG	5.21	117.81	112.60
3	V	465	ASP	CA-CB-CG	5.21	117.81	112.60
2	9	94	ARG	CD-NE-CZ	5.21	131.69	124.40
3	R	465	ASP	CA-CB-CG	5.21	117.81	112.60
2	6	94	ARG	CD-NE-CZ	5.21	131.69	124.40
3	O	106	GLY	CA-C-N	5.21	128.40	122.36
3	O	106	GLY	C-N-CA	5.21	128.40	122.36
3	1	106	GLY	CA-C-N	5.21	128.40	122.36
3	1	106	GLY	C-N-CA	5.21	128.40	122.36
2	6	157	GLU	CA-C-N	5.21	131.73	121.58
2	6	157	GLU	C-N-CA	5.21	131.73	121.58
3	C	106	GLY	CA-C-N	5.20	128.39	122.36
3	C	106	GLY	C-N-CA	5.20	128.39	122.36
3	L	106	GLY	CA-C-N	5.20	128.39	122.36
3	L	106	GLY	C-N-CA	5.20	128.39	122.36
3	L	465	ASP	CA-CB-CG	5.20	117.80	112.60
3	Y	106	GLY	CA-C-N	5.20	128.39	122.36
3	Y	106	GLY	C-N-CA	5.20	128.39	122.36
2	K	157	GLU	CA-C-N	5.20	131.72	121.58
2	K	157	GLU	C-N-CA	5.20	131.72	121.58
3	R	525	ILE	CA-C-N	5.20	130.90	122.53
3	R	525	ILE	C-N-CA	5.20	130.90	122.53
1	G	56	VAL	CA-CB-CG2	5.20	119.23	110.40
3	4	106	GLY	CA-C-N	5.20	128.39	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	106	GLY	C-N-CA	5.20	128.39	122.36
3	7	524	THR	CA-C-N	5.20	129.94	121.62
3	7	524	THR	C-N-CA	5.20	129.94	121.62
2	K	94	ARG	CD-NE-CZ	5.20	131.67	124.40
3	1	53	ASP	CA-CB-CG	5.20	117.80	112.60
1	M	56	VAL	CA-CB-CG2	5.19	119.23	110.40
3	Y	524	THR	CA-C-N	5.19	129.93	121.62
3	Y	524	THR	C-N-CA	5.19	129.93	121.62
3	F	106	GLY	CA-C-N	5.19	128.38	122.36
3	F	106	GLY	C-N-CA	5.19	128.38	122.36
3	F	459	ASN	CA-C-N	5.19	131.29	121.69
3	F	459	ASN	C-N-CA	5.19	131.29	121.69
3	V	376	TRP	CA-CB-CG	5.19	123.46	113.60
3	U	420	GLN	CA-CB-CG	5.19	124.48	114.10
2	H	137	GLU	CB-CG-CD	5.19	121.42	112.60
1	8	56	VAL	CA-CB-CG2	5.19	119.22	110.40
3	C	465	ASP	CA-CB-CG	5.19	117.79	112.60
3	Y	465	ASP	CA-CB-CG	5.19	117.79	112.60
3	1	465	ASP	CA-CB-CG	5.19	117.79	112.60
3	1	525	ILE	CA-C-N	5.19	130.88	122.53
3	1	525	ILE	C-N-CA	5.19	130.88	122.53
3	7	376	TRP	CA-CB-CG	5.19	123.46	113.60
3	L	376	TRP	CA-CB-CG	5.19	123.45	113.60
3	7	420	GLN	CA-CB-CG	5.19	124.47	114.10
3	F	63	ARG	NE-CZ-NH1	-5.18	116.32	121.50
3	V	524	THR	CA-C-N	5.18	129.91	121.62
3	V	524	THR	C-N-CA	5.18	129.91	121.62
2	B	94	ARG	CD-NE-CZ	5.18	131.65	124.40
3	O	507	LYS	CA-C-N	5.18	127.68	120.63
3	O	507	LYS	C-N-CA	5.18	127.68	120.63
3	V	516	VAL	CA-C-N	5.18	129.93	123.14
3	V	516	VAL	C-N-CA	5.18	129.93	123.14
3	V	525	ILE	CA-C-N	5.18	130.87	122.53
3	V	525	ILE	C-N-CA	5.18	130.87	122.53
1	2	56	VAL	CA-CB-CG2	5.18	119.21	110.40
3	U	106	GLY	CA-C-N	5.18	128.37	122.36
3	U	106	GLY	C-N-CA	5.18	128.37	122.36
3	7	459	ASN	CA-C-N	5.18	131.28	121.69
3	7	459	ASN	C-N-CA	5.18	131.28	121.69
3	I	524	THR	CA-C-N	5.18	129.91	121.62
3	I	524	THR	C-N-CA	5.18	129.91	121.62
2	Q	94	ARG	CD-NE-CZ	5.18	131.65	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	524	THR	CA-C-N	5.18	129.91	121.62
3	4	524	THR	C-N-CA	5.18	129.91	121.62
1	S	56	VAL	CA-CB-CG2	5.18	119.20	110.40
3	1	420	GLN	CA-CB-CG	5.18	124.46	114.10
3	O	465	ASP	CA-CB-CG	5.18	117.78	112.60
1	P	56	VAL	CA-CB-CG2	5.18	119.20	110.40
3	R	376	TRP	CA-CB-CG	5.18	123.44	113.60
3	1	376	TRP	CA-CB-CG	5.18	123.44	113.60
3	C	376	TRP	CA-CB-CG	5.17	123.43	113.60
3	I	376	TRP	CA-CB-CG	5.17	123.43	113.60
2	K	137	GLU	CB-CG-CD	5.17	121.40	112.60
3	R	420	GLN	CA-CB-CG	5.17	124.45	114.10
3	F	376	TRP	CA-CB-CG	5.17	123.43	113.60
2	0	137	GLU	CB-CG-CD	5.17	121.39	112.60
3	7	525	ILE	CA-C-N	5.17	130.86	122.53
3	7	525	ILE	C-N-CA	5.17	130.86	122.53
3	C	420	GLN	CA-CB-CG	5.17	124.44	114.10
3	I	525	ILE	CA-C-N	5.17	130.85	122.53
3	I	525	ILE	C-N-CA	5.17	130.85	122.53
3	L	459	ASN	CA-C-N	5.17	131.26	121.69
3	L	459	ASN	C-N-CA	5.17	131.26	121.69
3	O	420	GLN	CA-CB-CG	5.17	124.44	114.10
3	Y	376	TRP	CA-CB-CG	5.17	123.43	113.60
3	Y	420	GLN	CA-CB-CG	5.17	124.44	114.10
1	5	56	VAL	CA-CB-CG2	5.17	119.19	110.40
3	C	524	THR	CA-C-N	5.17	129.89	121.62
3	C	524	THR	C-N-CA	5.17	129.89	121.62
3	L	420	GLN	CA-CB-CG	5.17	124.44	114.10
3	O	376	TRP	CA-CB-CG	5.17	123.42	113.60
3	Y	459	ASN	CA-C-N	5.17	131.25	121.69
3	Y	459	ASN	C-N-CA	5.17	131.25	121.69
2	0	94	ARG	CD-NE-CZ	5.17	131.64	124.40
3	U	524	THR	CA-C-N	5.17	129.89	121.62
3	U	524	THR	C-N-CA	5.17	129.89	121.62
3	I	459	ASN	CA-C-N	5.17	131.25	121.69
3	I	459	ASN	C-N-CA	5.17	131.25	121.69
3	O	53	ASP	CA-CB-CG	5.17	117.77	112.60
3	V	420	GLN	CA-CB-CG	5.17	124.44	114.10
3	1	524	THR	CA-C-N	5.17	129.89	121.62
3	1	524	THR	C-N-CA	5.17	129.89	121.62
3	4	420	GLN	CA-CB-CG	5.17	124.43	114.10
3	R	508	GLU	CA-C-N	5.17	127.51	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	R	508	GLU	C-N-CA	5.17	127.51	120.54
2	T	94	ARG	CD-NE-CZ	5.17	131.63	124.40
3	Y	63	ARG	NE-CZ-NH1	-5.17	116.33	121.50
3	1	459	ASN	CA-C-N	5.17	131.25	121.69
3	1	459	ASN	C-N-CA	5.17	131.25	121.69
3	4	53	ASP	CA-CB-CG	5.17	117.77	112.60
3	I	106	GLY	CA-C-N	5.16	128.35	122.36
3	I	106	GLY	C-N-CA	5.16	128.35	122.36
3	I	507	LYS	CA-C-N	5.16	127.65	120.63
3	I	507	LYS	C-N-CA	5.16	127.65	120.63
3	Y	507	LYS	CA-C-N	5.16	127.65	120.63
3	Y	507	LYS	C-N-CA	5.16	127.65	120.63
3	Y	525	ILE	CA-C-N	5.16	130.84	122.53
3	Y	525	ILE	C-N-CA	5.16	130.84	122.53
1	Z	56	VAL	CA-CB-CG2	5.16	119.18	110.40
1	5	91	ARG	CA-CB-CG	5.16	124.42	114.10
1	A	56	VAL	CA-CB-CG2	5.16	119.17	110.40
3	C	525	ILE	CA-C-N	5.16	130.84	122.53
3	C	525	ILE	C-N-CA	5.16	130.84	122.53
3	F	524	THR	CA-C-N	5.16	129.88	121.62
3	F	524	THR	C-N-CA	5.16	129.88	121.62
1	M	91	ARG	CA-CB-CG	5.16	124.42	114.10
1	Z	91	ARG	CA-CB-CG	5.16	124.42	114.10
3	U	459	ASN	CA-C-N	5.16	131.24	121.69
3	U	459	ASN	C-N-CA	5.16	131.24	121.69
3	C	459	ASN	CA-C-N	5.16	131.24	121.69
3	C	459	ASN	C-N-CA	5.16	131.24	121.69
2	N	137	GLU	CB-CG-CD	5.16	121.37	112.60
3	O	508	GLU	CA-C-N	5.16	127.51	120.54
3	O	508	GLU	C-N-CA	5.16	127.51	120.54
3	R	507	LYS	CA-C-N	5.16	127.65	120.63
3	R	507	LYS	C-N-CA	5.16	127.65	120.63
3	V	459	ASN	CA-C-N	5.16	131.24	121.69
3	V	459	ASN	C-N-CA	5.16	131.24	121.69
1	W	56	VAL	CA-CB-CG2	5.16	119.17	110.40
3	4	525	ILE	CA-C-N	5.16	130.84	122.53
3	4	525	ILE	C-N-CA	5.16	130.84	122.53
2	9	137	GLU	CB-CG-CD	5.16	121.37	112.60
3	U	525	ILE	CA-C-N	5.16	130.84	122.53
3	U	525	ILE	C-N-CA	5.16	130.84	122.53
3	F	420	GLN	CA-CB-CG	5.16	124.42	114.10
2	H	94	ARG	CD-NE-CZ	5.16	131.62	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	524	THR	CA-C-N	5.16	129.87	121.62
3	L	524	THR	C-N-CA	5.16	129.87	121.62
3	O	459	ASN	CA-C-N	5.16	131.23	121.69
3	O	459	ASN	C-N-CA	5.16	131.23	121.69
2	T	137	GLU	CB-CG-CD	5.16	121.37	112.60
1	W	91	ARG	CA-CB-CG	5.16	124.42	114.10
2	X	94	ARG	CD-NE-CZ	5.16	131.62	124.40
3	4	376	TRP	CA-CB-CG	5.16	123.40	113.60
3	7	507	LYS	CA-C-N	5.16	127.65	120.63
3	7	507	LYS	C-N-CA	5.16	127.65	120.63
2	B	137	GLU	CB-CG-CD	5.16	121.37	112.60
3	I	63	ARG	NE-CZ-NH1	-5.16	116.34	121.50
1	J	56	VAL	CA-CB-CG2	5.16	119.17	110.40
3	4	508	GLU	CA-C-N	5.16	127.50	120.54
3	4	508	GLU	C-N-CA	5.16	127.50	120.54
2	6	137	GLU	CB-CG-CD	5.16	121.37	112.60
3	C	211	LEU	O-C-N	5.16	127.38	122.07
1	D	91	ARG	CA-CB-CG	5.16	124.41	114.10
3	F	525	ILE	CA-C-N	5.16	130.83	122.53
3	F	525	ILE	C-N-CA	5.16	130.83	122.53
3	O	524	THR	CA-C-N	5.16	129.87	121.62
3	O	524	THR	C-N-CA	5.16	129.87	121.62
1	S	91	ARG	CA-CB-CG	5.16	124.41	114.10
2	3	137	GLU	CB-CG-CD	5.16	121.36	112.60
3	C	507	LYS	CA-C-N	5.15	127.64	120.63
3	C	507	LYS	C-N-CA	5.15	127.64	120.63
3	V	507	LYS	CA-C-N	5.15	127.64	120.63
3	V	507	LYS	C-N-CA	5.15	127.64	120.63
2	3	94	ARG	CD-NE-CZ	5.15	131.62	124.40
3	I	465	ASP	CA-CB-CG	5.15	117.75	112.60
3	O	157	ALA	N-CA-C	5.15	122.03	113.89
3	O	525	ILE	CA-C-N	5.15	130.83	122.53
3	O	525	ILE	C-N-CA	5.15	130.83	122.53
1	2	91	ARG	CA-CB-CG	5.15	124.41	114.10
1	A	91	ARG	CA-CB-CG	5.15	124.40	114.10
1	J	91	ARG	CA-CB-CG	5.15	124.40	114.10
3	R	53	ASP	CA-CB-CG	5.15	117.75	112.60
3	R	459	ASN	CA-C-N	5.15	131.22	121.69
3	R	459	ASN	C-N-CA	5.15	131.22	121.69
3	1	507	LYS	CA-C-N	5.15	127.64	120.63
3	1	507	LYS	C-N-CA	5.15	127.64	120.63
3	7	508	GLU	CA-C-N	5.15	127.49	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7	508	GLU	C-N-CA	5.15	127.49	120.54
3	U	376	TRP	CA-CB-CG	5.15	123.38	113.60
2	Q	137	GLU	CB-CG-CD	5.15	121.35	112.60
3	4	465	ASP	CA-CB-CG	5.15	117.75	112.60
3	L	157	ALA	N-CA-C	5.15	122.02	113.89
1	P	91	ARG	CA-CB-CG	5.15	124.40	114.10
3	L	53	ASP	CA-CB-CG	5.15	117.75	112.60
3	I	420	GLN	CA-CB-CG	5.14	124.39	114.10
3	I	508	GLU	CA-C-N	5.14	127.48	120.54
3	I	508	GLU	C-N-CA	5.14	127.48	120.54
3	R	524	THR	CA-C-N	5.14	129.85	121.62
3	R	524	THR	C-N-CA	5.14	129.85	121.62
3	4	229	ALA	CA-C-N	5.14	132.12	121.32
3	4	229	ALA	C-N-CA	5.14	132.12	121.32
3	7	465	ASP	CA-CB-CG	5.14	117.75	112.60
3	C	53	ASP	CA-CB-CG	5.14	117.74	112.60
3	L	341	ARG	NE-CZ-NH1	5.14	126.64	121.50
3	U	465	ASP	CA-CB-CG	5.14	117.74	112.60
3	O	63	ARG	NE-CZ-NH1	-5.14	116.36	121.50
3	L	525	ILE	CA-C-N	5.14	130.80	122.53
3	L	525	ILE	C-N-CA	5.14	130.80	122.53
3	1	157	ALA	N-CA-C	5.14	122.01	113.89
3	7	53	ASP	CA-CB-CG	5.14	117.74	112.60
3	U	157	ALA	N-CA-C	5.14	122.01	113.89
2	E	137	GLU	CB-CG-CD	5.14	121.33	112.60
3	F	508	GLU	CA-C-N	5.14	127.48	120.54
3	F	508	GLU	C-N-CA	5.14	127.48	120.54
3	4	157	ALA	N-CA-C	5.14	122.01	113.89
3	7	106	GLY	CA-C-N	5.14	128.32	122.36
3	7	106	GLY	C-N-CA	5.14	128.32	122.36
3	4	507	LYS	CA-C-N	5.13	127.61	120.63
3	4	507	LYS	C-N-CA	5.13	127.61	120.63
3	7	141	HIS	CA-C-N	5.13	129.81	122.21
3	7	141	HIS	C-N-CA	5.13	129.81	122.21
3	U	53	ASP	CA-CB-CG	5.13	117.73	112.60
3	F	494	VAL	CA-C-N	5.13	130.74	123.14
3	F	494	VAL	C-N-CA	5.13	130.74	123.14
3	R	341	ARG	NE-CZ-NH1	5.13	126.63	121.50
3	Y	53	ASP	CA-CB-CG	5.13	117.73	112.60
3	Y	508	GLU	CA-C-N	5.13	127.47	120.54
3	Y	508	GLU	C-N-CA	5.13	127.47	120.54
1	8	91	ARG	CA-CB-CG	5.13	124.37	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	157	ALA	N-CA-C	5.13	122.00	113.89
3	C	508	GLU	CA-C-N	5.13	127.47	120.54
3	C	508	GLU	C-N-CA	5.13	127.47	120.54
3	F	507	LYS	CA-C-N	5.13	127.61	120.63
3	F	507	LYS	C-N-CA	5.13	127.61	120.63
3	7	229	ALA	CA-C-N	5.13	132.10	121.32
3	7	229	ALA	C-N-CA	5.13	132.10	121.32
3	C	229	ALA	CA-C-N	5.13	132.09	121.32
3	C	229	ALA	C-N-CA	5.13	132.09	121.32
3	V	157	ALA	N-CA-C	5.13	122.00	113.89
3	1	229	ALA	CA-C-N	5.13	132.09	121.32
3	1	229	ALA	C-N-CA	5.13	132.09	121.32
1	D	56	VAL	CA-CB-CG2	5.13	119.12	110.40
1	G	91	ARG	CA-CB-CG	5.13	124.36	114.10
3	I	341	ARG	NE-CZ-NH1	5.13	126.63	121.50
3	O	92	ARG	CA-C-N	5.13	129.42	122.19
3	O	92	ARG	C-N-CA	5.13	129.42	122.19
3	7	157	ALA	N-CA-C	5.13	121.99	113.89
3	L	508	GLU	CA-C-N	5.12	127.46	120.54
3	L	508	GLU	C-N-CA	5.12	127.46	120.54
3	R	229	ALA	CA-C-N	5.12	132.08	121.32
3	R	229	ALA	C-N-CA	5.12	132.08	121.32
3	V	341	ARG	NE-CZ-NH1	5.12	126.62	121.50
3	Y	341	ARG	NE-CZ-NH1	5.12	126.62	121.50
3	4	459	ASN	CA-C-N	5.12	131.17	121.69
3	4	459	ASN	C-N-CA	5.12	131.17	121.69
3	7	341	ARG	NE-CZ-NH1	5.12	126.62	121.50
3	7	494	VAL	CA-C-N	5.12	130.72	123.14
3	7	494	VAL	C-N-CA	5.12	130.72	123.14
3	F	157	ALA	N-CA-C	5.12	121.98	113.89
3	I	229	ALA	CA-C-N	5.12	132.07	121.32
3	I	229	ALA	C-N-CA	5.12	132.07	121.32
2	X	137	GLU	CB-CG-CD	5.12	121.31	112.60
3	Y	157	ALA	N-CA-C	5.12	121.98	113.89
3	U	92	ARG	CA-C-N	5.12	129.41	122.19
3	U	92	ARG	C-N-CA	5.12	129.41	122.19
3	U	229	ALA	CA-C-N	5.12	132.07	121.32
3	U	229	ALA	C-N-CA	5.12	132.07	121.32
3	C	63	ARG	NE-CZ-NH1	-5.12	116.38	121.50
3	F	141	HIS	CA-C-N	5.12	129.79	122.21
3	F	141	HIS	C-N-CA	5.12	129.79	122.21
3	O	63	ARG	CA-C-N	5.12	130.10	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	O	63	ARG	C-N-CA	5.12	130.10	121.14
3	R	490[A]	GLN	CA-CB-CG	5.12	124.34	114.10
3	R	490[B]	GLN	CA-CB-CG	5.12	124.34	114.10
3	V	229	ALA	CA-C-N	5.12	132.07	121.32
3	V	229	ALA	C-N-CA	5.12	132.07	121.32
3	V	271	ARG	CA-CB-CG	5.12	124.34	114.10
3	O	229	ALA	CA-C-N	5.12	132.07	121.32
3	O	229	ALA	C-N-CA	5.12	132.07	121.32
3	Y	229	ALA	CA-C-N	5.12	132.06	121.32
3	Y	229	ALA	C-N-CA	5.12	132.06	121.32
3	V	141	HIS	CA-C-N	5.12	129.78	122.21
3	V	141	HIS	C-N-CA	5.12	129.78	122.21
3	1	490[A]	GLN	CA-CB-CG	5.12	124.33	114.10
3	1	490[B]	GLN	CA-CB-CG	5.12	124.33	114.10
3	4	271	ARG	CA-CB-CG	5.12	124.33	114.10
3	U	494	VAL	CA-C-N	5.12	130.71	123.14
3	U	494	VAL	C-N-CA	5.12	130.71	123.14
3	C	341	ARG	NE-CZ-NH1	5.11	126.61	121.50
3	F	229	ALA	CA-C-N	5.11	132.06	121.32
3	F	229	ALA	C-N-CA	5.11	132.06	121.32
3	I	53	ASP	CA-CB-CG	5.11	117.71	112.60
3	I	63	ARG	CA-C-N	5.11	130.09	121.14
3	I	63	ARG	C-N-CA	5.11	130.09	121.14
3	L	507	LYS	CA-C-N	5.11	127.58	120.63
3	L	507	LYS	C-N-CA	5.11	127.58	120.63
3	R	157	ALA	N-CA-C	5.11	121.97	113.89
3	Y	271	ARG	CA-CB-CG	5.11	124.32	114.10
3	7	63	ARG	NE-CZ-NH1	-5.11	116.39	121.50
3	I	157	ALA	N-CA-C	5.11	121.96	113.89
3	O	341	ARG	NE-CZ-NH1	5.11	126.61	121.50
3	V	53	ASP	CA-CB-CG	5.11	117.71	112.60
3	U	141	HIS	CA-C-N	5.11	129.78	122.21
3	U	141	HIS	C-N-CA	5.11	129.78	122.21
3	Y	141	HIS	CA-C-N	5.11	129.77	122.21
3	Y	141	HIS	C-N-CA	5.11	129.77	122.21
3	4	141	HIS	CA-C-N	5.11	129.77	122.21
3	4	141	HIS	C-N-CA	5.11	129.77	122.21
3	C	141	HIS	CA-C-N	5.11	129.77	122.21
3	C	141	HIS	C-N-CA	5.11	129.77	122.21
3	C	271	ARG	CA-CB-CG	5.11	124.31	114.10
3	L	63	ARG	CA-C-N	5.11	130.08	121.14
3	L	63	ARG	C-N-CA	5.11	130.08	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	229	ALA	CA-C-N	5.11	132.04	121.32
3	L	229	ALA	C-N-CA	5.11	132.04	121.32
3	1	141	HIS	CA-C-N	5.11	129.77	122.21
3	1	141	HIS	C-N-CA	5.11	129.77	122.21
3	4	63	ARG	NE-CZ-NH1	-5.11	116.39	121.50
3	4	490[A]	GLN	CA-CB-CG	5.11	124.31	114.10
3	4	490[B]	GLN	CA-CB-CG	5.11	124.31	114.10
3	U	508	GLU	CA-C-N	5.11	127.44	120.54
3	U	508	GLU	C-N-CA	5.11	127.44	120.54
3	F	341	ARG	NE-CZ-NH1	5.11	126.61	121.50
3	I	490[A]	GLN	CA-CB-CG	5.11	124.31	114.10
3	I	490[B]	GLN	CA-CB-CG	5.11	124.31	114.10
3	1	63	ARG	CA-C-N	5.11	130.07	121.14
3	1	63	ARG	C-N-CA	5.11	130.07	121.14
3	4	92	ARG	CA-C-N	5.11	129.39	122.19
3	4	92	ARG	C-N-CA	5.11	129.39	122.19
3	U	271	ARG	CA-CB-CG	5.11	124.31	114.10
3	U	507	LYS	CA-C-N	5.11	127.57	120.63
3	U	507	LYS	C-N-CA	5.11	127.57	120.63
3	F	53	ASP	CA-CB-CG	5.10	117.70	112.60
3	F	490[A]	GLN	CA-CB-CG	5.10	124.31	114.10
3	F	490[B]	GLN	CA-CB-CG	5.10	124.31	114.10
3	I	271	ARG	CA-CB-CG	5.10	124.31	114.10
3	V	92	ARG	CA-C-N	5.10	129.39	122.19
3	V	92	ARG	C-N-CA	5.10	129.39	122.19
3	7	92	ARG	CA-C-N	5.10	129.39	122.19
3	7	92	ARG	C-N-CA	5.10	129.39	122.19
3	L	92	ARG	CA-C-N	5.10	129.38	122.19
3	L	92	ARG	C-N-CA	5.10	129.38	122.19
3	L	490[A]	GLN	CA-CB-CG	5.10	124.30	114.10
3	L	490[B]	GLN	CA-CB-CG	5.10	124.30	114.10
3	7	490[A]	GLN	CA-CB-CG	5.10	124.31	114.10
3	7	490[B]	GLN	CA-CB-CG	5.10	124.31	114.10
3	I	135	GLY	N-CA-C	5.10	117.80	111.93
3	R	271	ARG	CA-CB-CG	5.10	124.30	114.10
3	C	63	ARG	CA-C-N	5.10	130.06	121.14
3	C	63	ARG	C-N-CA	5.10	130.06	121.14
3	R	494	VAL	CA-C-N	5.10	130.69	123.14
3	R	494	VAL	C-N-CA	5.10	130.69	123.14
3	C	490[A]	GLN	CA-CB-CG	5.10	124.29	114.10
3	C	490[B]	GLN	CA-CB-CG	5.10	124.29	114.10
3	F	63	ARG	CA-C-N	5.10	130.06	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	63	ARG	C-N-CA	5.10	130.06	121.14
3	O	271	ARG	CA-CB-CG	5.10	124.29	114.10
3	L	271	ARG	CA-CB-CG	5.09	124.29	114.10
3	V	508	GLU	CA-C-N	5.09	127.42	120.54
3	V	508	GLU	C-N-CA	5.09	127.42	120.54
3	Y	494	VAL	CA-C-N	5.09	130.68	123.14
3	Y	494	VAL	C-N-CA	5.09	130.68	123.14
3	1	494	VAL	CA-C-N	5.09	130.68	123.14
3	1	494	VAL	C-N-CA	5.09	130.68	123.14
3	F	271	ARG	CA-CB-CG	5.09	124.29	114.10
3	I	494	VAL	CA-C-N	5.09	130.68	123.14
3	I	494	VAL	C-N-CA	5.09	130.68	123.14
3	1	508	GLU	CA-C-N	5.09	127.42	120.54
3	1	508	GLU	C-N-CA	5.09	127.42	120.54
3	C	92	ARG	CA-C-N	5.09	129.37	122.19
3	C	92	ARG	C-N-CA	5.09	129.37	122.19
3	L	141	HIS	CA-C-N	5.09	129.75	122.21
3	L	141	HIS	C-N-CA	5.09	129.75	122.21
3	O	490[A]	GLN	CA-CB-CG	5.09	124.28	114.10
3	O	490[B]	GLN	CA-CB-CG	5.09	124.28	114.10
3	R	63	ARG	CA-C-N	5.09	130.05	121.14
3	R	63	ARG	C-N-CA	5.09	130.05	121.14
3	V	490[A]	GLN	CA-CB-CG	5.09	124.28	114.10
3	V	490[B]	GLN	CA-CB-CG	5.09	124.28	114.10
3	4	63	ARG	CA-C-N	5.09	130.05	121.14
3	4	63	ARG	C-N-CA	5.09	130.05	121.14
3	7	63	ARG	CA-C-N	5.09	130.05	121.14
3	7	63	ARG	C-N-CA	5.09	130.05	121.14
3	U	63	ARG	CA-C-N	5.09	130.05	121.14
3	U	63	ARG	C-N-CA	5.09	130.05	121.14
3	4	341	ARG	NE-CZ-NH1	5.09	126.59	121.50
3	I	92	ARG	CA-C-N	5.09	129.36	122.19
3	I	92	ARG	C-N-CA	5.09	129.36	122.19
3	R	92	ARG	CA-C-N	5.09	129.36	122.19
3	R	92	ARG	C-N-CA	5.09	129.36	122.19
3	Y	490[A]	GLN	CA-CB-CG	5.09	124.27	114.10
3	Y	490[B]	GLN	CA-CB-CG	5.09	124.27	114.10
3	F	92	ARG	CA-C-N	5.08	129.36	122.19
3	F	92	ARG	C-N-CA	5.08	129.36	122.19
3	V	63	ARG	NE-CZ-NH1	-5.08	116.42	121.50
3	Y	63	ARG	CA-C-N	5.08	130.04	121.14
3	Y	63	ARG	C-N-CA	5.08	130.04	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	494	VAL	CA-C-N	5.08	130.66	123.14
3	C	494	VAL	C-N-CA	5.08	130.66	123.14
3	L	63	ARG	NE-CZ-NH1	-5.08	116.42	121.50
3	V	494	VAL	CA-C-N	5.08	130.66	123.14
3	V	494	VAL	C-N-CA	5.08	130.66	123.14
3	1	341	ARG	NE-CZ-NH1	5.08	126.58	121.50
3	7	135	GLY	N-CA-C	5.08	117.77	111.93
3	7	271	ARG	CA-CB-CG	5.08	124.26	114.10
3	U	341	ARG	NE-CZ-NH1	5.08	126.58	121.50
3	R	141	HIS	CA-C-N	5.08	129.73	122.21
3	R	141	HIS	C-N-CA	5.08	129.73	122.21
3	V	63	ARG	CA-C-N	5.08	130.03	121.14
3	V	63	ARG	C-N-CA	5.08	130.03	121.14
3	Y	92	ARG	CA-C-N	5.08	129.35	122.19
3	Y	92	ARG	C-N-CA	5.08	129.35	122.19
3	1	92	ARG	CA-C-N	5.08	129.35	122.19
3	1	92	ARG	C-N-CA	5.08	129.35	122.19
1	5	15	THR	CA-C-O	-5.08	115.47	120.70
3	U	63	ARG	NE-CZ-NH1	-5.08	116.42	121.50
3	I	141	HIS	CA-C-N	5.08	129.72	122.21
3	I	141	HIS	C-N-CA	5.08	129.72	122.21
3	L	494	VAL	CA-C-N	5.08	130.65	123.14
3	L	494	VAL	C-N-CA	5.08	130.65	123.14
3	O	141	HIS	CA-C-N	5.08	129.72	122.21
3	O	141	HIS	C-N-CA	5.08	129.72	122.21
3	Y	93	ASP	CA-C-N	5.08	130.62	120.77
3	Y	93	ASP	C-N-CA	5.08	130.62	120.77
3	U	490[A]	GLN	CA-CB-CG	5.08	124.25	114.10
3	U	490[B]	GLN	CA-CB-CG	5.08	124.25	114.10
1	J	15	THR	CA-C-O	-5.07	115.47	120.70
3	O	323	VAL	CA-CB-CG2	5.07	119.02	110.40
3	R	323	VAL	CA-CB-CG2	5.07	119.02	110.40
3	Y	323	VAL	CA-CB-CG2	5.07	119.02	110.40
2	H	31	SER	CA-C-N	5.07	131.22	121.54
2	H	31	SER	C-N-CA	5.07	131.22	121.54
3	C	135	GLY	N-CA-C	5.07	117.76	111.93
3	F	135	GLY	N-CA-C	5.07	117.76	111.93
3	1	93	ASP	CA-C-N	5.07	130.60	120.77
3	1	93	ASP	C-N-CA	5.07	130.60	120.77
2	T	31	SER	CA-C-N	5.07	131.22	121.54
2	T	31	SER	C-N-CA	5.07	131.22	121.54
3	1	271	ARG	CA-CB-CG	5.07	124.23	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4	494	VAL	CA-C-N	5.06	130.63	123.14
3	4	494	VAL	C-N-CA	5.06	130.63	123.14
3	V	135	GLY	N-CA-C	5.06	117.75	111.93
3	4	550	VAL	CA-C-O	-5.06	114.91	120.48
3	F	450	LYS	CA-C-N	5.06	131.35	121.63
3	F	450	LYS	C-N-CA	5.06	131.35	121.63
3	1	135	GLY	N-CA-C	5.06	117.75	111.93
3	4	450	LYS	CA-C-N	5.06	131.35	121.63
3	4	450	LYS	C-N-CA	5.06	131.35	121.63
3	F	550	VAL	CA-C-O	-5.06	114.91	120.48
3	L	550	VAL	CA-C-O	-5.06	114.92	120.48
1	P	15	THR	CA-C-O	-5.06	115.49	120.70
3	1	22	ARG	CB-CG-CD	5.06	122.94	111.30
1	2	15	THR	CA-C-O	-5.06	115.49	120.70
3	4	22	ARG	CB-CG-CD	5.06	122.94	111.30
3	O	494	VAL	CA-C-N	5.06	130.62	123.14
3	O	494	VAL	C-N-CA	5.06	130.62	123.14
3	V	450	LYS	CA-C-N	5.06	131.34	121.63
3	V	450	LYS	C-N-CA	5.06	131.34	121.63
3	C	93	ASP	CA-C-N	5.06	130.58	120.77
3	C	93	ASP	C-N-CA	5.06	130.58	120.77
3	L	450	LYS	CA-C-N	5.06	131.34	121.63
3	L	450	LYS	C-N-CA	5.06	131.34	121.63
3	7	450	LYS	CA-C-N	5.06	131.34	121.63
3	7	450	LYS	C-N-CA	5.06	131.34	121.63
3	C	450	LYS	CA-C-N	5.05	131.33	121.63
3	C	450	LYS	C-N-CA	5.05	131.33	121.63
2	E	31	SER	CA-C-N	5.05	131.19	121.54
2	E	31	SER	C-N-CA	5.05	131.19	121.54
3	F	198	ILE	CA-C-N	5.05	129.70	122.72
3	F	198	ILE	C-N-CA	5.05	129.70	122.72
3	I	93	ASP	CA-C-N	5.05	130.57	120.77
3	I	93	ASP	C-N-CA	5.05	130.57	120.77
2	N	31	SER	CA-C-N	5.05	131.19	121.54
2	N	31	SER	C-N-CA	5.05	131.19	121.54
3	R	63	ARG	NE-CZ-NH1	-5.05	116.44	121.50
3	7	22	ARG	CB-CG-CD	5.05	122.93	111.30
3	1	323	VAL	CA-CB-CG2	5.05	118.99	110.40
1	D	15	THR	CA-C-O	-5.05	115.50	120.70
3	I	550	VAL	CA-C-O	-5.05	114.92	120.48
3	4	93	ASP	CA-C-N	5.05	130.57	120.77
3	4	93	ASP	C-N-CA	5.05	130.57	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	93	ASP	CA-C-N	5.05	130.57	120.77
3	F	93	ASP	C-N-CA	5.05	130.57	120.77
3	F	323	VAL	CA-CB-CG2	5.05	118.98	110.40
3	O	135	GLY	N-CA-C	5.05	117.74	111.93
3	O	450	LYS	CA-C-N	5.05	131.32	121.63
3	O	450	LYS	C-N-CA	5.05	131.32	121.63
2	3	31	SER	CA-C-N	5.05	131.19	121.54
2	3	31	SER	C-N-CA	5.05	131.19	121.54
3	U	135	GLY	N-CA-C	5.05	117.74	111.93
3	C	323	VAL	CA-CB-CG2	5.05	118.98	110.40
3	L	93	ASP	CA-C-N	5.05	130.56	120.77
3	L	93	ASP	C-N-CA	5.05	130.56	120.77
3	L	323	VAL	CA-CB-CG2	5.05	118.98	110.40
3	R	450	LYS	CA-C-N	5.05	131.32	121.63
3	R	450	LYS	C-N-CA	5.05	131.32	121.63
1	S	15	THR	CA-C-O	-5.05	115.50	120.70
2	X	31	SER	CA-C-N	5.05	131.18	121.54
2	X	31	SER	C-N-CA	5.05	131.18	121.54
2	9	31	SER	CA-C-N	5.05	131.18	121.54
2	9	31	SER	C-N-CA	5.05	131.18	121.54
2	B	31	SER	CA-C-N	5.04	131.18	121.54
2	B	31	SER	C-N-CA	5.04	131.18	121.54
3	4	323	VAL	CA-CB-CG2	5.04	118.98	110.40
3	C	22	ARG	CB-CG-CD	5.04	122.90	111.30
3	I	323	VAL	CA-CB-CG2	5.04	118.97	110.40
3	O	22	ARG	CB-CG-CD	5.04	122.90	111.30
3	O	93	ASP	CA-C-N	5.04	130.55	120.77
3	O	93	ASP	C-N-CA	5.04	130.55	120.77
3	V	550	VAL	CA-C-O	-5.04	114.93	120.48
3	Y	22	ARG	CB-CG-CD	5.04	122.90	111.30
3	1	63	ARG	NE-CZ-NH1	-5.04	116.46	121.50
3	1	450	LYS	CA-C-N	5.04	131.31	121.63
3	1	450	LYS	C-N-CA	5.04	131.31	121.63
3	V	323	VAL	CA-CB-CG2	5.04	118.97	110.40
3	I	450	LYS	CA-C-N	5.04	131.30	121.63
3	I	450	LYS	C-N-CA	5.04	131.30	121.63
3	O	550	VAL	CA-C-O	-5.04	114.94	120.48
3	R	93	ASP	CA-C-N	5.04	130.54	120.77
3	R	93	ASP	C-N-CA	5.04	130.54	120.77
3	U	93	ASP	CA-C-N	5.04	130.55	120.77
3	U	93	ASP	C-N-CA	5.04	130.55	120.77
3	U	323	VAL	CA-CB-CG2	5.04	118.97	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	22	ARG	CB-CG-CD	5.04	122.89	111.30
3	I	22	ARG	CB-CG-CD	5.04	122.89	111.30
3	7	323	VAL	CA-CB-CG2	5.04	118.96	110.40
1	A	15	THR	CA-C-O	-5.04	115.51	120.70
2	H	93	LYS	CD-CE-NZ	5.04	128.01	111.90
2	N	93	LYS	CD-CE-NZ	5.04	128.01	111.90
2	0	93	LYS	CD-CE-NZ	5.04	128.02	111.90
1	8	15	THR	CA-C-O	-5.04	115.51	120.70
3	U	22	ARG	CB-CG-CD	5.04	122.88	111.30
1	M	22	LYS	CB-CG-CD	5.03	122.88	111.30
2	Q	31	SER	CA-C-N	5.03	131.16	121.54
2	Q	31	SER	C-N-CA	5.03	131.16	121.54
3	R	22	ARG	CB-CG-CD	5.03	122.88	111.30
3	V	93	ASP	CA-C-N	5.03	130.54	120.77
3	V	93	ASP	C-N-CA	5.03	130.54	120.77
1	W	15	THR	CA-C-O	-5.03	115.52	120.70
3	Y	450	LYS	CA-C-N	5.03	131.30	121.63
3	Y	450	LYS	C-N-CA	5.03	131.30	121.63
1	Z	15	THR	CA-C-O	-5.03	115.52	120.70
2	6	31	SER	CA-C-N	5.03	131.15	121.54
2	6	31	SER	C-N-CA	5.03	131.15	121.54
3	U	450	LYS	CA-C-N	5.03	131.29	121.63
3	U	450	LYS	C-N-CA	5.03	131.29	121.63
3	R	135	GLY	N-CA-C	5.03	117.72	111.93
2	T	93	LYS	CD-CE-NZ	5.03	128.00	111.90
1	G	22	LYS	CB-CG-CD	5.03	122.87	111.30
2	Q	93	LYS	CD-CE-NZ	5.03	128.00	111.90
3	7	93	ASP	CA-C-N	5.03	130.53	120.77
3	7	93	ASP	C-N-CA	5.03	130.53	120.77
3	C	550	VAL	CA-C-O	-5.03	114.95	120.48
3	L	198	ILE	CA-C-N	5.03	129.66	122.72
3	L	198	ILE	C-N-CA	5.03	129.66	122.72
3	R	198	ILE	CA-C-N	5.03	129.66	122.72
3	R	198	ILE	C-N-CA	5.03	129.66	122.72
3	V	22	ARG	CB-CG-CD	5.03	122.86	111.30
2	0	31	SER	CA-C-N	5.03	131.14	121.54
2	0	31	SER	C-N-CA	5.03	131.14	121.54
1	M	15	THR	CA-C-O	-5.03	115.52	120.70
1	W	22	LYS	CB-CG-CD	5.03	122.86	111.30
2	B	93	LYS	CD-CE-NZ	5.02	127.98	111.90
3	L	22	ARG	CB-CG-CD	5.02	122.85	111.30
2	E	93	LYS	CD-CE-NZ	5.02	127.95	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	31	SER	CA-C-N	5.02	131.12	121.54
2	K	31	SER	C-N-CA	5.02	131.12	121.54
3	R	192	LEU	CA-CB-CG	5.02	133.86	116.30
2	X	93	LYS	CD-CE-NZ	5.02	127.96	111.90
2	6	93	LYS	CD-CE-NZ	5.02	127.95	111.90
3	7	550	VAL	CA-C-O	-5.02	114.96	120.48
3	I	192	LEU	CA-CB-CG	5.02	133.86	116.30
3	1	550	VAL	CA-C-O	-5.02	114.96	120.48
1	A	22	LYS	CB-CG-CD	5.01	122.83	111.30
3	Y	550	VAL	CA-C-O	-5.01	114.96	120.48
3	F	250	VAL	N-CA-C	5.01	115.87	108.45
2	K	93	LYS	CD-CE-NZ	5.01	127.94	111.90
3	1	198	ILE	CA-C-N	5.01	129.64	122.72
3	1	198	ILE	C-N-CA	5.01	129.64	122.72
2	9	93	LYS	CD-CE-NZ	5.01	127.94	111.90
3	O	192	LEU	CA-CB-CG	5.01	133.84	116.30
1	P	22	LYS	CB-CG-CD	5.01	122.83	111.30
2	3	93	LYS	CD-CE-NZ	5.01	127.94	111.90
3	7	198	ILE	CA-C-N	5.01	129.64	122.72
3	7	198	ILE	C-N-CA	5.01	129.64	122.72
3	R	486	GLY	N-CA-C	5.01	120.39	111.73
3	R	550	VAL	CA-C-O	-5.01	114.97	120.48
1	S	22	LYS	CB-CG-CD	5.01	122.82	111.30
3	Y	192	LEU	CA-CB-CG	5.01	133.83	116.30
3	C	192	LEU	CA-CB-CG	5.01	133.83	116.30
1	G	15	THR	CA-C-O	-5.01	115.54	120.70
1	J	22	LYS	CB-CG-CD	5.01	122.81	111.30
3	O	198	ILE	CA-C-N	5.01	129.63	122.72
3	O	198	ILE	C-N-CA	5.01	129.63	122.72
3	V	192	LEU	CA-CB-CG	5.01	133.83	116.30
3	7	192	LEU	CA-CB-CG	5.01	133.82	116.30
3	F	192	LEU	CA-CB-CG	5.00	133.81	116.30
3	I	198	ILE	CA-C-N	5.00	129.62	122.72
3	I	198	ILE	C-N-CA	5.00	129.62	122.72
3	L	192	LEU	CA-CB-CG	5.00	133.81	116.30
1	2	22	LYS	CB-CG-CD	5.00	122.81	111.30
3	4	192	LEU	CA-CB-CG	5.00	133.81	116.30
3	4	198	ILE	CA-C-N	5.00	129.63	122.72
3	4	198	ILE	C-N-CA	5.00	129.63	122.72
1	5	22	LYS	CB-CG-CD	5.00	122.81	111.30
3	U	192	LEU	CA-CB-CG	5.00	133.81	116.30
3	C	198	ILE	CA-C-N	5.00	129.62	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	198	ILE	C-N-CA	5.00	129.62	122.72
3	Y	103	GLY	CA-C-N	5.00	131.35	122.35
3	Y	103	GLY	C-N-CA	5.00	131.35	122.35
3	1	192	LEU	CA-CB-CG	5.00	133.81	116.30

There are no chirality outliers.

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	1	287	PRO	Peptide
1	2	15	THR	Mainchain
3	4	287	PRO	Peptide
1	5	15	THR	Mainchain
3	7	287	PRO	Peptide
1	8	15	THR	Mainchain
1	A	15	THR	Mainchain
3	C	287	PRO	Peptide
1	D	15	THR	Mainchain
3	F	287	PRO	Peptide
1	G	15	THR	Mainchain
3	I	287	PRO	Peptide
1	J	15	THR	Mainchain
3	L	287	PRO	Peptide
1	M	15	THR	Mainchain
3	O	287	PRO	Peptide
1	P	15	THR	Mainchain
3	R	287	PRO	Peptide
1	S	15	THR	Mainchain
3	U	287	PRO	Peptide
3	V	287	PRO	Peptide
1	W	15	THR	Mainchain
3	Y	287	PRO	Peptide
1	Z	15	THR	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	2	805	856	819	8	0
1	5	805	856	819	5	0
1	8	805	856	819	6	0
1	A	805	856	819	3	0
1	D	805	856	819	5	0
1	G	805	856	819	6	0
1	J	805	856	819	3	0
1	M	805	856	819	3	0
1	P	805	856	819	3	0
1	S	805	856	819	10	0
1	W	805	856	819	4	0
1	Z	805	856	819	3	0
2	0	1042	1019	1008	9	0
2	3	1042	1019	1008	11	0
2	6	1042	1019	1008	8	0
2	9	1042	1019	1008	7	0
2	B	1042	1019	1008	7	0
2	E	1042	1019	1008	6	0
2	H	1042	1019	1008	7	0
2	K	1042	1019	1008	14	0
2	N	1042	1019	1008	7	0
2	Q	1042	1019	1008	11	0
2	T	1042	1019	1008	8	0
2	X	1042	1019	1008	6	0
3	1	4271	4222	4173	51	0
3	4	4271	4222	4173	52	0
3	7	4271	4222	4173	53	0
3	C	4271	4222	4173	53	0
3	F	4271	4222	4173	44	0
3	I	4271	4222	4173	50	0
3	L	4271	4222	4173	65	0
3	O	4271	4222	4173	55	0
3	R	4271	4222	4173	61	0
3	U	4271	4222	4173	51	0
3	V	4271	4222	4173	47	0
3	Y	4271	4222	4173	53	0
4	1	2	0	0	0	0
4	4	2	0	0	0	0
4	7	2	0	0	0	0
4	C	2	0	0	0	0
4	F	2	0	0	0	0
4	I	2	0	0	0	0
4	L	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	O	2	0	0	0	0
4	R	2	0	0	0	0
4	U	2	0	0	0	0
4	V	2	0	0	0	0
4	Y	2	0	0	0	0
5	0	57	0	0	2	0
5	1	224	0	0	8	0
5	2	25	0	0	0	0
5	3	57	0	0	2	0
5	4	216	0	0	6	0
5	5	25	0	0	0	0
5	6	57	0	0	3	0
5	7	220	0	0	8	0
5	8	25	0	0	0	0
5	9	56	0	0	2	0
5	A	25	0	0	0	0
5	B	59	0	0	2	0
5	C	224	0	0	8	0
5	D	25	0	0	0	0
5	E	59	0	0	2	0
5	F	225	0	0	6	0
5	G	27	0	0	0	0
5	H	58	0	0	3	0
5	I	227	0	0	9	0
5	J	25	0	0	0	0
5	K	59	0	0	2	0
5	L	227	0	0	12	0
5	M	25	0	0	0	0
5	N	57	0	0	6	0
5	O	222	0	0	9	0
5	P	25	0	0	0	0
5	Q	57	0	0	2	0
5	R	216	0	0	8	0
5	S	25	0	0	0	0
5	T	58	0	0	2	0
5	U	223	0	0	10	0
5	V	227	0	0	8	0
5	W	25	0	0	0	0
5	X	58	0	0	2	0
5	Y	226	0	0	8	0
5	Z	26	0	0	0	0
All	All	77112	73164	72000	671	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

All (671) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:141:PRO:N	2:9:141:PRO:CA	1.70	1.48
2:E:141:PRO:N	2:E:141:PRO:CA	1.70	1.47
2:6:141:PRO:N	2:6:141:PRO:CA	1.70	1.46
2:N:141:PRO:N	2:N:141:PRO:CA	1.70	1.45
2:X:141:PRO:N	2:X:141:PRO:CA	1.70	1.44
2:B:141:PRO:N	2:B:141:PRO:CA	1.70	1.43
2:H:141:PRO:N	2:H:141:PRO:CA	1.70	1.42
2:3:141:PRO:CA	2:3:141:PRO:N	1.70	1.39
2:T:141:PRO:N	2:T:141:PRO:CA	1.70	1.38
2:Q:141:PRO:N	2:Q:141:PRO:CA	1.70	1.37
2:K:141:PRO:N	2:K:141:PRO:CA	1.70	1.37
3:C:179:PRO:N	3:C:179:PRO:CA	1.68	1.33
2:0:141:PRO:N	2:0:141:PRO:CA	1.70	1.33
3:L:487:LYS:HE3	3:R:511:GLY:O	1.57	1.03
3:L:167:THR:OG1	3:V:122:ASP:OD2	1.89	0.89
3:C:511:GLY:O	3:Y:487:LYS:HE3	1.78	0.83
3:L:491:ASP:OD2	3:R:187:ARG:NE	2.14	0.81
3:F:122:ASP:OD2	3:Y:167:THR:OG1	2.00	0.78
3:Y:434[B]:MET:HE1	3:Y:494:VAL:HG21	1.69	0.75
3:4:434[B]:MET:HE1	3:4:494:VAL:HG21	1.69	0.75
3:I:434[B]:MET:HE1	3:I:494:VAL:HG21	1.69	0.74
3:V:434[B]:MET:HE1	3:V:494:VAL:HG21	1.69	0.74
3:1:434[B]:MET:HE1	3:1:494:VAL:HG21	1.69	0.74
3:F:434[B]:MET:HE1	3:F:494:VAL:HG21	1.69	0.74
3:U:434[B]:MET:HE1	3:U:494:VAL:HG21	1.69	0.74
3:7:434[B]:MET:HE1	3:7:494:VAL:HG21	1.69	0.74
2:6:141:PRO:N	2:6:141:PRO:C	2.46	0.74
2:X:141:PRO:N	2:X:141:PRO:C	2.46	0.74
3:C:434[B]:MET:HE1	3:C:494:VAL:HG21	1.69	0.74
3:O:434[B]:MET:HE1	3:O:494:VAL:HG21	1.69	0.73
2:0:141:PRO:N	2:0:141:PRO:C	2.46	0.73
2:K:141:PRO:N	2:K:141:PRO:C	2.46	0.73
2:3:141:PRO:N	2:3:141:PRO:C	2.46	0.73
2:H:141:PRO:N	2:H:141:PRO:C	2.46	0.73
2:N:141:PRO:N	2:N:141:PRO:C	2.46	0.73
3:L:434[B]:MET:HE1	3:L:494:VAL:HG21	1.69	0.73
2:T:141:PRO:N	2:T:141:PRO:C	2.46	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:141:PRO:N	2:Q:141:PRO:C	2.46	0.73
2:E:141:PRO:N	2:E:141:PRO:C	2.46	0.72
2:9:141:PRO:N	2:9:141:PRO:C	2.46	0.72
2:Q:79:VAL:HG21	2:Q:83:LEU:HD12	1.72	0.72
3:R:434[B]:MET:HE1	3:R:494:VAL:HG21	1.69	0.72
2:0:79:VAL:HG21	2:0:83:LEU:HD12	1.72	0.72
2:B:141:PRO:N	2:B:141:PRO:C	2.46	0.72
3:L:123:ALA:HB3	5:L:853:HOH:O	1.89	0.72
2:9:79:VAL:HG21	2:9:83:LEU:HD12	1.72	0.72
3:O:511:GLY:O	3:7:487:LYS:HE3	1.89	0.71
2:T:79:VAL:HG21	2:T:83:LEU:HD12	1.72	0.71
2:B:79:VAL:HG21	2:B:83:LEU:HD12	1.72	0.71
3:1:123:ALA:HB3	5:1:862:HOH:O	1.90	0.71
3:I:487:LYS:HE3	3:4:511:GLY:O	1.90	0.71
3:L:482:PHE:CG	3:R:185:MET:HE1	2.26	0.71
2:N:79:VAL:HG21	2:N:83:LEU:HD12	1.72	0.71
2:X:79:VAL:HG21	2:X:83:LEU:HD12	1.72	0.71
2:H:79:VAL:HG21	2:H:83:LEU:HD12	1.72	0.71
2:6:79:VAL:HG21	2:6:83:LEU:HD12	1.72	0.70
3:C:487:LYS:HE3	3:F:511:GLY:O	1.92	0.70
3:I:123:ALA:HB3	5:I:856:HOH:O	1.91	0.70
2:3:79:VAL:HG21	2:3:83:LEU:HD12	1.72	0.70
3:R:53:ASP:OD2	3:V:203:ASN:HB3	1.92	0.70
2:K:79:VAL:HG21	2:K:83:LEU:HD12	1.72	0.69
2:E:79:VAL:HG21	2:E:83:LEU:HD12	1.72	0.69
3:O:203:ASN:HB3	3:7:53:ASP:OD2	1.93	0.69
3:R:181:ASN:OD1	5:R:701:HOH:O	2.11	0.69
5:O:865:HOH:O	3:7:123:ALA:HB3	1.92	0.69
3:O:53:ASP:OD2	3:1:203:ASN:HB3	1.93	0.68
3:U:408:TYR:O	3:U:411:LYS:HB2	1.94	0.68
3:C:408:TYR:O	3:C:411:LYS:HB2	1.94	0.68
3:F:408:TYR:O	3:F:411:LYS:HB2	1.94	0.68
3:4:408:TYR:O	3:4:411:LYS:HB2	1.94	0.68
3:V:408:TYR:O	3:V:411:LYS:HB2	1.94	0.68
3:7:408:TYR:O	3:7:411:LYS:HB2	1.94	0.67
3:I:408:TYR:O	3:I:411:LYS:HB2	1.94	0.67
3:R:408:TYR:O	3:R:411:LYS:HB2	1.94	0.67
3:Y:123:ALA:HB3	5:Y:853:HOH:O	1.95	0.67
3:Y:408:TYR:O	3:Y:411:LYS:HB2	1.94	0.67
3:1:408:TYR:O	3:1:411:LYS:HB2	1.94	0.67
3:L:408:TYR:O	3:L:411:LYS:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Y:266:ASP:O	5:Y:701:HOH:O	2.12	0.67
3:O:408:TYR:O	3:O:411:LYS:HB2	1.94	0.66
1:D:45:GLU:OE1	1:W:26:ARG:NH2	2.26	0.66
2:K:146:PRO:HB3	5:N:252:HOH:O	1.96	0.66
3:L:52:ARG:NH2	3:L:55[A]:MET:HE1	2.11	0.66
3:V:52:ARG:NH2	3:V:55[A]:MET:HE1	2.11	0.66
3:I:52:ARG:NH2	3:I:55[A]:MET:HE1	2.11	0.65
3:4:52:ARG:NH2	3:4:55[A]:MET:HE1	2.11	0.65
3:R:52:ARG:NH2	3:R:55[A]:MET:HE1	2.11	0.65
3:Y:52:ARG:NH2	3:Y:55[A]:MET:HE1	2.11	0.65
5:L:868:HOH:O	3:V:119:VAL:HG22	1.96	0.65
3:1:52:ARG:NH2	3:1:55[A]:MET:HE1	2.11	0.65
3:4:53:ASP:OD2	3:U:203:ASN:HB3	1.96	0.65
3:U:52:ARG:NH2	3:U:55[A]:MET:HE1	2.11	0.65
3:C:52:ARG:NH2	3:C:55[A]:MET:HE1	2.11	0.65
3:O:52:ARG:NH2	3:O:55[A]:MET:HE1	2.11	0.65
1:J:26:ARG:NH2	1:S:45:GLU:OE1	2.24	0.64
3:4:123:ALA:HB3	5:U:865:HOH:O	1.97	0.64
3:7:52:ARG:NH2	3:7:55[A]:MET:HE1	2.11	0.64
3:L:266:ASP:OD1	2:O:134:TRP:HZ3	1.79	0.64
3:4:487:LYS:HE3	3:U:511:GLY:O	1.98	0.64
3:F:52:ARG:NH2	3:F:55[A]:MET:HE1	2.11	0.64
3:C:123:ALA:HB3	5:C:851:HOH:O	1.98	0.64
3:1:53:ASP:OD2	3:7:203:ASN:HB3	1.97	0.63
2:9:79:VAL:CG2	2:9:83:LEU:HD12	2.30	0.62
2:B:79:VAL:CG2	2:B:83:LEU:HD12	2.30	0.62
2:X:79:VAL:CG2	2:X:83:LEU:HD12	2.30	0.62
2:6:79:VAL:CG2	2:6:83:LEU:HD12	2.30	0.62
3:V:292:VAL:HG23	5:V:864:HOH:O	2.00	0.62
3:L:491:ASP:CG	3:R:187:ARG:HH21	2.06	0.62
2:H:79:VAL:CG2	2:H:83:LEU:HD12	2.30	0.62
2:N:79:VAL:CG2	2:N:83:LEU:HD12	2.30	0.62
3:L:312:ASN:ND2	1:S:88:ASP:OD1	2.27	0.62
2:3:79:VAL:CG2	2:3:83:LEU:HD12	2.30	0.62
2:T:79:VAL:CG2	2:T:83:LEU:HD12	2.29	0.62
2:E:79:VAL:CG2	2:E:83:LEU:HD12	2.30	0.61
3:L:292:VAL:HG23	5:L:867:HOH:O	2.00	0.61
3:O:487:LYS:HE3	3:1:511:GLY:O	2.00	0.61
2:Q:66:ARG:HB2	3:V:260:TYR:CE1	2.34	0.61
3:R:292:VAL:HG23	5:R:867:HOH:O	2.00	0.61
3:1:292:VAL:HG23	5:1:868:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:292:VAL:HG23	5:U:864:HOH:O	2.00	0.61
3:I:292:VAL:HG23	5:I:869:HOH:O	2.00	0.61
2:O:79:VAL:CG2	2:O:83:LEU:HD12	2.30	0.61
3:U:434[B]:MET:HE1	3:U:494:VAL:CG2	2.31	0.61
2:K:79:VAL:CG2	2:K:83:LEU:HD12	2.30	0.61
3:O:292:VAL:HG23	5:O:863:HOH:O	2.00	0.61
3:4:292:VAL:HG23	5:4:862:HOH:O	2.00	0.61
3:7:434[B]:MET:HE1	3:7:494:VAL:CG2	2.31	0.61
3:C:179:PRO:N	3:C:179:PRO:C	2.55	0.61
3:C:292:VAL:HG23	5:C:868:HOH:O	2.00	0.61
3:O:434[B]:MET:HE1	3:O:494:VAL:CG2	2.31	0.60
3:Y:292:VAL:HG23	5:Y:867:HOH:O	2.00	0.60
3:F:434[B]:MET:HE1	3:F:494:VAL:CG2	2.31	0.60
1:Z:45:GLU:OE1	1:5:26:ARG:NH2	2.32	0.60
3:C:434[B]:MET:HE1	3:C:494:VAL:CG2	2.31	0.60
3:F:292:VAL:HG23	5:F:867:HOH:O	2.00	0.60
2:Q:79:VAL:CG2	2:Q:83:LEU:HD12	2.30	0.60
3:R:434[B]:MET:HE1	3:R:494:VAL:CG2	2.31	0.60
1:G:26:ARG:NH2	1:8:45:GLU:OE1	2.33	0.60
3:1:434[B]:MET:HE1	3:1:494:VAL:CG2	2.31	0.60
3:4:434[B]:MET:HE1	3:4:494:VAL:CG2	2.31	0.60
3:7:292:VAL:HG23	5:7:864:HOH:O	2.00	0.60
3:L:434[B]:MET:HE1	3:L:494:VAL:CG2	2.31	0.60
3:1:487:LYS:HE3	3:7:511:GLY:O	2.02	0.59
3:R:173:THR:HG22	3:R:224:HIS:CG	2.37	0.59
3:4:173:THR:HG22	3:4:224:HIS:CG	2.37	0.59
3:7:173:THR:HG22	3:7:224:HIS:CG	2.37	0.59
3:1:173:THR:HG22	3:1:224:HIS:CG	2.37	0.59
3:I:173:THR:HG22	3:I:224:HIS:CG	2.37	0.59
3:Y:434[B]:MET:HE1	3:Y:494:VAL:CG2	2.31	0.59
3:C:173:THR:HG22	3:C:224:HIS:CG	2.37	0.59
3:U:173:THR:HG22	3:U:224:HIS:CG	2.37	0.59
3:F:487:LYS:HE3	3:Y:511:GLY:O	2.02	0.59
3:I:434[B]:MET:HE1	3:I:494:VAL:CG2	2.31	0.59
3:L:173:THR:HG22	3:L:224:HIS:CG	2.37	0.59
3:V:173:THR:HG22	3:V:224:HIS:CG	2.37	0.59
3:V:434[B]:MET:HE1	3:V:494:VAL:CG2	2.31	0.59
3:F:173:THR:HG22	3:F:224:HIS:CG	2.37	0.59
3:I:53:ASP:OD2	3:4:203:ASN:HB3	2.03	0.59
3:V:377:LEU:HD11	3:V:565:MET:O	2.03	0.59
3:U:377:LEU:HD11	3:U:565:MET:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:96:ASN:O	5:B:201:HOH:O	2.17	0.58
3:L:45:TYR:OH	3:R:173:THR:HG23	2.03	0.58
3:1:377:LEU:HD11	3:1:565:MET:O	2.03	0.58
2:K:134:TRP:HZ3	3:1:266:ASP:OD1	1.86	0.58
3:I:167:THR:OG1	3:U:122:ASP:OD2	2.08	0.58
3:O:173:THR:HG22	3:O:224:HIS:CG	2.37	0.58
3:7:377:LEU:HD11	3:7:565:MET:O	2.03	0.58
2:H:96:ASN:O	5:H:201:HOH:O	2.17	0.58
3:I:377:LEU:HD11	3:I:565:MET:O	2.03	0.58
3:L:377:LEU:HD11	3:L:565:MET:O	2.03	0.58
3:L:482:PHE:CD1	3:R:185:MET:HE1	2.39	0.58
3:R:377:LEU:HD11	3:R:565:MET:O	2.03	0.58
2:3:96:ASN:O	5:3:201:HOH:O	2.17	0.58
3:Y:173:THR:HG22	3:Y:224:HIS:CG	2.37	0.58
2:K:96:ASN:O	5:K:201:HOH:O	2.17	0.58
2:X:96:ASN:O	5:X:201:HOH:O	2.17	0.58
2:N:96:ASN:O	5:N:201:HOH:O	2.17	0.58
2:T:96:ASN:O	5:T:201:HOH:O	2.17	0.58
2:O:96:ASN:O	5:O:201:HOH:O	2.17	0.58
3:4:377:LEU:HD11	3:4:565:MET:O	2.03	0.58
3:F:377:LEU:HD11	3:F:565:MET:O	2.03	0.57
2:Q:96:ASN:O	5:Q:201:HOH:O	2.17	0.57
3:F:123:ALA:HB3	5:F:809:HOH:O	2.04	0.57
3:I:511:GLY:O	3:U:487:LYS:HE3	2.04	0.57
3:O:377:LEU:HD11	3:O:565:MET:O	2.03	0.57
3:L:52:ARG:HH21	3:L:55[A]:MET:HE1	1.70	0.57
2:E:96:ASN:O	5:E:201:HOH:O	2.17	0.57
2:6:96:ASN:O	5:6:201:HOH:O	2.17	0.57
3:R:52:ARG:HH21	3:R:55[A]:MET:HE1	1.70	0.57
3:Y:377:LEU:HD11	3:Y:565:MET:O	2.03	0.57
3:1:52:ARG:HH21	3:1:55[A]:MET:HE1	1.70	0.57
3:7:52:ARG:HH21	3:7:55[A]:MET:HE1	1.70	0.57
3:C:377:LEU:HD11	3:C:565:MET:O	2.03	0.57
3:C:52:ARG:HH21	3:C:55[A]:MET:HE1	1.70	0.56
3:L:150:HIS:CE1	1:S:5:PRO:HB2	2.39	0.56
3:I:52:ARG:HH21	3:I:55[A]:MET:HE1	1.69	0.56
3:C:53:ASP:OD2	3:F:203:ASN:HB3	2.05	0.56
3:O:52:ARG:HH21	3:O:55[A]:MET:HE1	1.70	0.56
3:O:123:ALA:HB3	5:1:869:HOH:O	2.05	0.56
3:4:52:ARG:HH21	3:4:55[A]:MET:HE1	1.70	0.56
3:7:145:PRO:HD3	5:7:882:HOH:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:96:ASN:O	5:9:201:HOH:O	2.17	0.56
3:U:52:ARG:HH21	3:U:55[A]:MET:HE1	1.70	0.56
3:Y:52:ARG:HH21	3:Y:55[A]:MET:HE1	1.70	0.56
2:K:146:PRO:HB3	5:N:216:HOH:O	2.05	0.56
2:3:66:ARG:HB2	3:U:260:TYR:CE1	2.40	0.56
3:F:52:ARG:HH21	3:F:55[A]:MET:HE1	1.70	0.55
3:I:122:ASP:OD2	3:4:167:THR:OG1	2.18	0.55
3:1:122:ASP:OD2	3:7:167:THR:OG1	2.13	0.55
3:V:52:ARG:HH21	3:V:55[A]:MET:HE1	1.70	0.55
3:O:145:PRO:HD3	5:7:893:HOH:O	2.06	0.55
3:O:122:ASP:OD2	3:1:167:THR:OG1	2.15	0.55
3:L:481:MET:SD	3:R:166:PRO:HD3	2.48	0.54
5:O:894:HOH:O	3:1:145:PRO:HD3	2.07	0.54
3:R:386:MET:HE1	3:R:557:CYS:SG	2.49	0.53
3:F:386:MET:HE1	3:F:557:CYS:SG	2.49	0.53
3:L:169:GLY:HA3	3:V:122:ASP:OD1	2.07	0.53
3:C:185:MET:HE1	3:Y:482:PHE:CG	2.44	0.53
2:K:126:GLY:HA2	3:R:232:ASN:CG	2.34	0.53
3:Y:386:MET:HE1	3:Y:557:CYS:SG	2.49	0.53
3:4:145:PRO:HD3	5:4:880:HOH:O	2.09	0.53
5:L:899:HOH:O	3:R:146:GLN:HG2	2.09	0.53
3:V:386:MET:HE1	3:V:557:CYS:SG	2.49	0.53
3:U:386:MET:HE1	3:U:557:CYS:SG	2.49	0.53
3:L:386:MET:HE1	3:L:557:CYS:SG	2.49	0.53
3:7:386:MET:HE1	3:7:557:CYS:SG	2.49	0.53
3:I:386:MET:HE1	3:I:557:CYS:SG	2.49	0.53
3:C:386:MET:HE1	3:C:557:CYS:SG	2.49	0.52
3:L:53:ASP:OD2	3:R:203:ASN:HB3	2.08	0.52
3:O:386:MET:HE1	3:O:557:CYS:SG	2.49	0.52
3:4:386:MET:HE1	3:4:557:CYS:SG	2.49	0.52
3:I:173:THR:HG22	3:I:224:HIS:CD2	2.45	0.52
2:N:66:ARG:HB2	3:1:260:TYR:CE1	2.44	0.52
3:4:173:THR:HG22	3:4:224:HIS:CD2	2.45	0.52
3:1:249:SER:HA	3:1:274:HIS:O	2.10	0.52
3:1:386:MET:HE1	3:1:557:CYS:SG	2.49	0.52
3:U:173:THR:HG22	3:U:224:HIS:CD2	2.45	0.52
3:V:173:THR:HG22	3:V:224:HIS:CD2	2.45	0.52
3:7:249:SER:HA	3:7:274:HIS:O	2.10	0.52
3:C:203:ASN:HB3	3:Y:53:ASP:OD2	2.08	0.52
3:R:168:ASP:OD2	5:R:702:HOH:O	2.19	0.52
3:R:249:SER:HA	3:R:274:HIS:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:7:173:THR:HG22	3:7:224:HIS:CD2	2.45	0.52
3:C:249:SER:HA	3:C:274:HIS:O	2.10	0.52
3:I:249:SER:HA	3:I:274:HIS:O	2.10	0.52
3:L:491:ASP:OD2	3:R:187:ARG:NH2	2.43	0.52
3:O:173:THR:HG22	3:O:224:HIS:CD2	2.45	0.52
3:C:173:THR:HG22	3:C:224:HIS:CD2	2.45	0.51
3:F:173:THR:HG22	3:F:224:HIS:CD2	2.45	0.51
3:O:249:SER:HA	3:O:274:HIS:O	2.10	0.51
3:V:249:SER:HA	3:V:274:HIS:O	2.10	0.51
3:Y:173:THR:HG22	3:Y:224:HIS:CD2	2.45	0.51
3:1:173:THR:HG22	3:1:224:HIS:CD2	2.45	0.51
3:4:300:PRO:HB3	5:4:862:HOH:O	2.10	0.51
3:U:123:ALA:HB3	5:U:829:HOH:O	2.10	0.51
3:C:290:ILE:HD11	3:C:353:LEU:HD12	1.93	0.51
3:F:249:SER:HA	3:F:274:HIS:O	2.10	0.51
3:O:260:TYR:CE1	2:6:66:ARG:HB2	2.44	0.51
3:O:290:ILE:HD11	3:O:353:LEU:HD12	1.93	0.51
3:R:173:THR:HG22	3:R:224:HIS:CD2	2.45	0.51
3:I:502:LEU:HD22	3:I:518:ALA:HB2	1.93	0.51
3:R:502:LEU:HD22	3:R:518:ALA:HB2	1.93	0.51
3:U:300:PRO:HB3	5:U:864:HOH:O	2.10	0.51
3:L:300:PRO:HB3	5:L:867:HOH:O	2.10	0.51
3:R:290:ILE:HD11	3:R:353:LEU:HD12	1.93	0.51
3:R:300:PRO:HB3	5:R:867:HOH:O	2.10	0.51
3:C:138:THR:HA	3:C:160:PHE:HB2	1.93	0.51
3:F:502:LEU:HD22	3:F:518:ALA:HB2	1.93	0.51
3:I:290:ILE:HD11	3:I:353:LEU:HD12	1.93	0.51
3:L:173:THR:HG22	3:L:224:HIS:CD2	2.45	0.51
3:L:290:ILE:HD11	3:L:353:LEU:HD12	1.93	0.51
1:Z:71:ASP:O	3:1:568:ARG:NH1	2.44	0.51
1:A:71:ASP:O	3:C:568:ARG:NH1	2.44	0.51
1:D:71:ASP:O	3:F:568:ARG:NH1	2.44	0.51
1:W:71:ASP:O	3:Y:568:ARG:NH1	2.44	0.51
3:Y:249:SER:HA	3:Y:274:HIS:O	2.10	0.51
3:1:290:ILE:HD11	3:1:353:LEU:HD12	1.93	0.51
1:G:71:ASP:O	3:I:568:ARG:NH1	2.44	0.51
3:L:138:THR:HA	3:L:160:PHE:HB2	1.93	0.51
2:0:126:GLY:HA2	3:7:232:ASN:CG	2.36	0.51
2:6:159:GLY:HA3	5:6:236:HOH:O	2.11	0.51
3:7:138:THR:HA	3:7:160:PHE:HB2	1.93	0.51
1:S:71:ASP:O	3:V:568:ARG:NH1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:290:ILE:HD11	3:V:353:LEU:HD12	1.93	0.51
3:V:300:PRO:HB3	5:V:864:HOH:O	2.10	0.51
3:Y:502:LEU:HD22	3:Y:518:ALA:HB2	1.93	0.51
3:4:502:LEU:HD22	3:4:518:ALA:HB2	1.93	0.51
3:7:290:ILE:HD11	3:7:353:LEU:HD12	1.93	0.51
3:7:300:PRO:HB3	5:7:864:HOH:O	2.10	0.51
2:9:159:GLY:HA3	5:9:236:HOH:O	2.11	0.51
3:L:249:SER:HA	3:L:274:HIS:O	2.10	0.51
1:5:71:ASP:O	3:7:568:ARG:NH1	2.44	0.51
1:8:71:ASP:O	3:U:568:ARG:NH1	2.44	0.51
3:U:249:SER:HA	3:U:274:HIS:O	2.10	0.51
3:I:203:ASN:HB3	3:U:53:ASP:OD2	2.10	0.50
3:Y:290:ILE:HD11	3:Y:353:LEU:HD12	1.93	0.50
3:4:138:THR:HA	3:4:160:PHE:HB2	1.93	0.50
3:4:290:ILE:HD11	3:4:353:LEU:HD12	1.93	0.50
1:J:71:ASP:O	3:L:568:ARG:NH1	2.44	0.50
2:T:159:GLY:HA3	5:T:237:HOH:O	2.11	0.50
3:Y:300:PRO:HB3	5:Y:867:HOH:O	2.10	0.50
1:2:71:ASP:O	3:4:568:ARG:NH1	2.44	0.50
3:U:502:LEU:HD22	3:U:518:ALA:HB2	1.93	0.50
3:I:260:TYR:CE1	2:9:66:ARG:HB2	2.47	0.50
3:L:502:LEU:HD22	3:L:518:ALA:HB2	1.93	0.50
2:N:159:GLY:HA3	5:N:237:HOH:O	2.11	0.50
3:R:138:THR:HA	3:R:160:PHE:HB2	1.93	0.50
3:1:300:PRO:HB3	5:1:868:HOH:O	2.10	0.50
3:4:249:SER:HA	3:4:274:HIS:O	2.10	0.50
2:B:159:GLY:HA3	5:B:237:HOH:O	2.11	0.50
3:C:502:LEU:HD22	3:C:518:ALA:HB2	1.93	0.50
3:O:138:THR:HA	3:O:160:PHE:HB2	1.93	0.50
3:O:300:PRO:HB3	5:O:863:HOH:O	2.10	0.50
3:O:502:LEU:HD22	3:O:518:ALA:HB2	1.93	0.50
3:V:138:THR:HA	3:V:160:PHE:HB2	1.93	0.50
3:I:138:THR:HA	3:I:160:PHE:HB2	1.93	0.50
3:L:266:ASP:O	5:L:701:HOH:O	2.19	0.50
3:L:511:GLY:O	3:V:487:LYS:HE3	2.11	0.50
1:P:71:ASP:O	3:R:568:ARG:NH1	2.44	0.50
2:K:159:GLY:HA3	5:K:237:HOH:O	2.11	0.50
3:1:502:LEU:HD22	3:1:518:ALA:HB2	1.93	0.50
3:F:300:PRO:HB3	5:F:867:HOH:O	2.10	0.50
3:C:300:PRO:HB3	5:C:868:HOH:O	2.10	0.50
3:F:290:ILE:HD11	3:F:353:LEU:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:159:GLY:HA3	5:H:236:HOH:O	2.11	0.50
3:I:300:PRO:HB3	5:I:869:HOH:O	2.10	0.49
2:Q:159:GLY:HA3	5:Q:237:HOH:O	2.11	0.49
3:1:138:THR:HA	3:1:160:PHE:HB2	1.93	0.49
3:7:502:LEU:HD22	3:7:518:ALA:HB2	1.93	0.49
2:E:159:GLY:HA3	5:E:237:HOH:O	2.11	0.49
3:U:145:PRO:HD3	5:U:893:HOH:O	2.11	0.49
3:U:290:ILE:HD11	3:U:353:LEU:HD12	1.93	0.49
3:C:484:ALA:HA	3:C:489[B]:MET:HG2	1.95	0.49
3:Y:138:THR:HA	3:Y:160:PHE:HB2	1.93	0.49
3:U:138:THR:HA	3:U:160:PHE:HB2	1.93	0.49
3:F:138:THR:HA	3:F:160:PHE:HB2	1.93	0.49
1:G:45:GLU:OE1	1:2:26:ARG:NH2	2.40	0.49
1:M:71:ASP:O	3:O:568:ARG:NH1	2.44	0.49
3:Y:484:ALA:HA	3:Y:489[B]:MET:HG2	1.95	0.49
3:4:484:ALA:HA	3:4:489[B]:MET:HG2	1.95	0.49
3:O:173:THR:HG23	3:7:45:TYR:OH	2.13	0.49
3:V:502:LEU:HD22	3:V:518:ALA:HB2	1.93	0.49
3:U:484:ALA:HA	3:U:489[B]:MET:HG2	1.95	0.49
3:F:484:ALA:HA	3:F:489[B]:MET:HG2	1.95	0.49
3:F:489[A]:MET:HE2	5:F:799:HOH:O	2.13	0.49
3:R:484:ALA:HA	3:R:489[B]:MET:HG2	1.94	0.49
3:F:145:PRO:HD3	5:F:887:HOH:O	2.12	0.49
3:O:185:MET:HE1	3:7:482:PHE:CG	2.48	0.49
3:O:489[A]:MET:HE2	5:O:797:HOH:O	2.13	0.49
2:0:159:GLY:HA3	5:0:235:HOH:O	2.11	0.49
2:3:159:GLY:HA3	5:3:236:HOH:O	2.11	0.49
1:G:49:ASP:OD1	1:2:28:LEU:HD11	2.13	0.49
3:R:123:ALA:HB3	5:R:866:HOH:O	2.13	0.49
2:X:159:GLY:HA3	5:X:236:HOH:O	2.11	0.49
3:Y:489[A]:MET:HE2	5:Y:796:HOH:O	2.13	0.49
3:U:489[A]:MET:HE2	5:U:800:HOH:O	2.13	0.49
3:1:484:ALA:HA	3:1:489[B]:MET:HG2	1.94	0.48
3:7:489[A]:MET:HE2	5:7:799:HOH:O	2.13	0.48
3:I:489[A]:MET:HE2	5:I:796:HOH:O	2.13	0.48
2:Q:157:GLU:HG3	2:3:153[A]:ARG:NH2	2.29	0.48
3:V:484:ALA:HA	3:V:489[B]:MET:HG2	1.95	0.48
2:K:146:PRO:HG3	5:N:237:HOH:O	2.12	0.48
3:7:484:ALA:HA	3:7:489[B]:MET:HG2	1.94	0.48
3:C:145:PRO:HD3	5:C:888:HOH:O	2.13	0.48
3:L:484:ALA:HA	3:L:489[B]:MET:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:489[A]:MET:HE2	5:4:795:HOH:O	2.13	0.48
3:I:484:ALA:HA	3:I:489[B]:MET:HG2	1.94	0.48
3:V:489[A]:MET:HE2	5:V:799:HOH:O	2.13	0.48
3:1:139:HIS:CE1	3:1:276:PHE:CD2	3.02	0.48
3:C:139:HIS:CE1	3:C:276:PHE:CD2	3.02	0.48
3:I:139:HIS:CE1	3:I:276:PHE:CD2	3.02	0.48
3:O:484:ALA:HA	3:O:489[B]:MET:HG2	1.94	0.48
3:Y:139:HIS:CE1	3:Y:276:PHE:CD2	3.02	0.48
3:1:318:PHE:O	3:1:322:MET:HG3	2.14	0.48
3:4:139:HIS:CE1	3:4:276:PHE:CD2	3.02	0.48
3:C:185:MET:HE1	3:Y:482:PHE:CD1	2.49	0.48
3:F:139:HIS:CE1	3:F:276:PHE:CD2	3.02	0.48
3:I:318:PHE:O	3:I:322:MET:HG3	2.14	0.48
3:R:139:HIS:CE1	3:R:276:PHE:CD2	3.02	0.48
3:R:225:GLU:HG2	3:R:251:HIS:CD2	2.49	0.47
3:Y:225:GLU:HG2	3:Y:251:HIS:CD2	2.49	0.47
3:C:225:GLU:HG2	3:C:251:HIS:CD2	2.49	0.47
3:O:187:ARG:NE	3:7:491:ASP:OD2	2.43	0.47
3:R:489[A]:MET:HE2	5:R:798:HOH:O	2.13	0.47
3:V:225:GLU:HG2	3:V:251:HIS:CD2	2.49	0.47
3:1:489[A]:MET:HE2	5:1:795:HOH:O	2.13	0.47
3:C:318:PHE:O	3:C:322:MET:HG3	2.14	0.47
3:F:225:GLU:HG2	3:F:251:HIS:CD2	2.49	0.47
3:L:489[A]:MET:HE2	5:L:798:HOH:O	2.13	0.47
3:O:263:ASP:OD2	5:O:701:HOH:O	2.20	0.47
3:O:318:PHE:O	3:O:322:MET:HG3	2.14	0.47
3:1:225:GLU:HG2	3:1:251:HIS:CD2	2.50	0.47
1:2:96:HIS:HE2	3:U:319:ASP:CG	2.22	0.47
3:U:225:GLU:HG2	3:U:251:HIS:CD2	2.49	0.47
3:C:489[A]:MET:HE2	5:C:797:HOH:O	2.13	0.47
3:L:225:GLU:HG2	3:L:251:HIS:CD2	2.49	0.47
3:O:187:ARG:HH21	3:7:491:ASP:CG	2.22	0.47
3:O:225:GLU:HG2	3:O:251:HIS:CD2	2.50	0.47
3:7:139:HIS:CE1	3:7:276:PHE:CD2	3.02	0.47
3:U:139:HIS:CE1	3:U:276:PHE:CD2	3.02	0.47
3:L:572:GLY:N	1:S:7:GLU:HG2	2.29	0.47
3:V:139:HIS:CE1	3:V:276:PHE:CD2	3.02	0.47
3:I:225:GLU:HG2	3:I:251:HIS:CD2	2.50	0.47
3:O:139:HIS:CE1	3:O:276:PHE:CD2	3.02	0.47
3:O:232:ASN:CG	2:6:126:GLY:HA2	2.39	0.47
3:F:318:PHE:O	3:F:322:MET:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:139:HIS:CE1	3:L:276:PHE:CD2	3.02	0.47
3:R:318:PHE:O	3:R:322:MET:HG3	2.14	0.47
3:V:145:PRO:HD3	5:V:895:HOH:O	2.14	0.47
3:V:318:PHE:O	3:V:322:MET:HG3	2.14	0.47
3:Y:318:PHE:O	3:Y:322:MET:HG3	2.14	0.47
3:4:225:GLU:HG2	3:4:251:HIS:CD2	2.49	0.47
3:7:318:PHE:O	3:7:322:MET:HG3	2.14	0.47
3:U:263:ASP:OD2	5:U:701:HOH:O	2.21	0.47
2:Q:145:ARG:NE	3:Y:266:ASP:OD1	2.47	0.47
3:I:482:PHE:CG	3:4:185:MET:HE1	2.50	0.47
1:P:45:GLU:OE1	1:S:26:ARG:NH2	2.37	0.46
3:4:318:PHE:O	3:4:322:MET:HG3	2.14	0.46
3:L:318:PHE:O	3:L:322:MET:HG3	2.14	0.46
3:L:572:GLY:O	1:S:85:ILE:HD12	2.15	0.46
3:7:225:GLU:HG2	3:7:251:HIS:CD2	2.49	0.46
2:K:125:TYR:HB3	3:R:205:TYR:CG	2.51	0.46
1:M:28:LEU:HD11	1:5:49:ASP:OD1	2.16	0.46
3:Y:145:PRO:HD3	5:Y:870:HOH:O	2.15	0.46
3:O:203:ASN:HB2	3:7:53:ASP:HB3	1.98	0.46
3:L:251:HIS:CE1	3:L:283:GLY:HA3	2.51	0.46
3:1:251:HIS:CE1	3:1:283:GLY:HA3	2.51	0.46
3:U:318:PHE:O	3:U:322:MET:HG3	2.14	0.46
3:F:122:ASP:OD1	3:Y:169:GLY:HA3	2.15	0.46
3:I:483:GLY:O	3:I:489[A]:MET:HA	2.16	0.46
3:Y:251:HIS:CE1	3:Y:283:GLY:HA3	2.51	0.46
3:7:483:GLY:O	3:7:489[A]:MET:HA	2.16	0.46
3:Y:483:GLY:O	3:Y:489[A]:MET:HA	2.16	0.46
3:1:483:GLY:O	3:1:489[A]:MET:HA	2.16	0.46
3:I:428:SER:OG	3:I:433:LYS:NZ	2.41	0.46
3:O:483:GLY:O	3:O:489[A]:MET:HA	2.16	0.46
3:4:483:GLY:O	3:4:489[A]:MET:HA	2.16	0.46
3:U:251:HIS:CE1	3:U:283:GLY:HA3	2.51	0.46
2:Q:157:GLU:HG3	2:3:153[B]:ARG:HH22	1.81	0.45
3:R:483:GLY:O	3:R:489[A]:MET:HA	2.16	0.45
3:L:457:MET:HE1	3:R:185:MET:SD	2.55	0.45
3:R:251:HIS:CE1	3:R:283:GLY:HA3	2.51	0.45
3:4:482:PHE:CG	3:U:185:MET:HE1	2.51	0.45
3:L:228:GLY:HA3	3:V:53:ASP:CG	2.41	0.45
3:O:251:HIS:CE1	3:O:283:GLY:HA3	2.51	0.45
3:4:251:HIS:CE1	3:4:283:GLY:HA3	2.51	0.45
3:I:145:PRO:HD3	5:I:888:HOH:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:53:ASP:HB3	3:R:203:ASN:CB	2.46	0.45
3:C:186:LEU:O	3:C:189:VAL:HG22	2.17	0.45
3:C:187:ARG:NE	3:Y:491:ASP:OD2	2.39	0.45
3:C:251:HIS:CE1	3:C:283:GLY:HA3	2.51	0.45
3:I:251:HIS:CE1	3:I:283:GLY:HA3	2.51	0.45
3:Y:454:LYS:HZ3	3:Y:454:LYS:HG3	1.63	0.45
3:L:53:ASP:HB3	3:R:203:ASN:HB2	1.99	0.45
3:7:251:HIS:CE1	3:7:283:GLY:HA3	2.51	0.45
3:U:483:GLY:O	3:U:489[A]:MET:HA	2.16	0.45
3:F:53:ASP:OD1	3:Y:228:GLY:HA3	2.16	0.45
5:H:254:HOH:O	2:T:146:PRO:HB3	2.17	0.45
2:K:70:VAL:HA	3:R:257:GLU:HG3	1.99	0.45
3:R:186:LEU:O	3:R:189:VAL:HG22	2.17	0.45
3:V:428:SER:OG	3:V:433:LYS:NZ	2.41	0.45
3:V:483:GLY:O	3:V:489[A]:MET:HA	2.16	0.45
3:C:483:GLY:O	3:C:489[A]:MET:HA	2.16	0.45
3:F:251:HIS:CE1	3:F:283:GLY:HA3	2.51	0.45
3:O:186:LEU:O	3:O:189:VAL:HG22	2.17	0.45
3:V:251:HIS:CE1	3:V:283:GLY:HA3	2.51	0.45
3:4:360:SER:CB	3:4:530:LEU:HD13	2.47	0.45
3:7:186:LEU:O	3:7:189:VAL:HG22	2.17	0.45
3:F:186:LEU:O	3:F:189:VAL:HG22	2.17	0.45
3:F:483:GLY:O	3:F:489[A]:MET:HA	2.16	0.45
3:O:360:SER:CB	3:O:530:LEU:HD13	2.47	0.45
3:O:454:LYS:HZ3	3:O:454:LYS:HG3	1.62	0.45
3:1:454:LYS:HZ3	3:1:454:LYS:HG3	1.64	0.45
3:L:266:ASP:OD1	2:O:134:TRP:CZ3	2.66	0.44
3:V:360:SER:CB	3:V:530:LEU:HD13	2.47	0.44
1:A:28:LEU:HD11	1:W:49:ASP:OD1	2.18	0.44
3:I:186:LEU:O	3:I:189:VAL:HG22	2.17	0.44
2:K:146:PRO:CB	5:N:216:HOH:O	2.64	0.44
3:L:483:GLY:O	3:L:489[A]:MET:HA	2.16	0.44
3:L:529:ASP:CG	5:L:773:HOH:O	2.59	0.44
5:L:898:HOH:O	3:R:145:PRO:HD3	2.17	0.44
3:7:360:SER:CB	3:7:530:LEU:HD13	2.47	0.44
3:R:360:SER:CB	3:R:530:LEU:HD13	2.47	0.44
3:C:360:SER:CB	3:C:530:LEU:HD13	2.47	0.44
3:C:428:SER:OG	3:C:433:LYS:NZ	2.41	0.44
3:F:360:SER:CB	3:F:530:LEU:HD13	2.47	0.44
3:L:186:LEU:O	3:L:189:VAL:HG22	2.17	0.44
3:F:53:ASP:OD2	3:Y:203:ASN:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:428:SER:OG	3:F:433:LYS:NZ	2.41	0.44
3:I:360:SER:CB	3:I:530:LEU:HD13	2.47	0.44
3:L:360:SER:CB	3:L:530:LEU:HD13	2.47	0.44
3:L:491:ASP:OD2	3:R:187:ARG:CZ	2.65	0.44
3:O:167:THR:OG1	3:7:122:ASP:OD2	2.28	0.44
3:1:186:LEU:O	3:1:189:VAL:HG22	2.17	0.44
1:8:18:ASP:O	1:8:22:LYS:HG3	2.18	0.44
3:U:186:LEU:O	3:U:189:VAL:HG22	2.17	0.44
1:D:5:PRO:HB2	3:Y:150:HIS:CE1	2.52	0.44
3:O:319:ASP:CG	1:5:96:HIS:HE2	2.25	0.44
1:2:18:ASP:O	1:2:22:LYS:HG3	2.18	0.44
3:4:45:TYR:OH	3:U:173:THR:HG23	2.18	0.44
1:5:18:ASP:O	1:5:22:LYS:HG3	2.18	0.44
3:U:360:SER:CB	3:U:530:LEU:HD13	2.47	0.44
3:R:428:SER:OG	3:R:433:LYS:NZ	2.41	0.44
3:Y:186:LEU:O	3:Y:189:VAL:HG22	2.17	0.44
3:1:360:SER:CB	3:1:530:LEU:HD13	2.47	0.44
3:O:434[A]:MET:HE3	3:O:434[A]:MET:HB3	1.88	0.44
1:W:18:ASP:O	1:W:22:LYS:HG3	2.18	0.44
3:C:434[A]:MET:HE3	3:C:434[A]:MET:HB3	1.88	0.43
1:Z:18:ASP:O	1:Z:22:LYS:HG3	2.18	0.43
3:4:186:LEU:O	3:4:189:VAL:HG22	2.17	0.43
1:D:18:ASP:O	1:D:22:LYS:HG3	2.18	0.43
3:V:186:LEU:O	3:V:189:VAL:HG22	2.17	0.43
3:Y:360:SER:CB	3:Y:530:LEU:HD13	2.47	0.43
3:4:454:LYS:HZ3	3:4:454:LYS:HG3	1.62	0.43
1:A:18:ASP:O	1:A:22:LYS:HG3	2.18	0.43
1:P:18:ASP:O	1:P:22:LYS:HG3	2.18	0.43
1:J:18:ASP:O	1:J:22:LYS:HG3	2.18	0.43
2:Q:157:GLU:HG3	2:3:153[B]:ARG:NH2	2.33	0.43
3:1:306:THR:HA	5:1:712:HOH:O	2.19	0.43
3:7:454:LYS:HZ3	3:7:454:LYS:HG3	1.63	0.43
1:G:18:ASP:O	1:G:22:LYS:HG3	2.18	0.43
3:O:306:THR:HA	5:O:716:HOH:O	2.19	0.43
3:C:166:PRO:HD3	3:Y:481:MET:SD	2.58	0.43
1:S:18:ASP:O	1:S:22:LYS:HG3	2.18	0.43
2:B:146:PRO:HB3	5:6:253:HOH:O	2.19	0.42
1:D:7:GLU:HG2	3:Y:572:GLY:N	2.34	0.42
3:F:306:THR:HA	5:F:715:HOH:O	2.19	0.42
3:R:122:ASP:OD2	3:V:167:THR:OG1	2.10	0.42
3:V:266:ASP:O	5:V:701:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:182:ILE:HD13	3:O:218:VAL:HG13	2.02	0.42
3:R:306:THR:HA	5:R:717:HOH:O	2.19	0.42
1:M:18:ASP:O	1:M:22:LYS:HG3	2.18	0.42
3:V:182:ILE:HD13	3:V:218:VAL:HG13	2.02	0.42
2:3:126:GLY:HA2	3:U:232:ASN:CG	2.45	0.42
3:7:182:ILE:HD13	3:7:218:VAL:HG13	2.01	0.42
3:Y:182:ILE:HD13	3:Y:218:VAL:HG13	2.02	0.42
1:2:45:GLU:OE1	1:8:26:ARG:NH2	2.42	0.42
3:C:482:PHE:CG	3:F:185:MET:HE1	2.55	0.42
3:I:454:LYS:HZ3	3:I:454:LYS:HG3	1.64	0.42
3:F:82:LEU:HD21	3:F:99:ILE:HD13	2.02	0.42
3:F:464:GLY:HA2	3:F:475:PRO:O	2.20	0.42
3:I:182:ILE:HD13	3:I:218:VAL:HG13	2.02	0.42
3:O:296:PRO:O	3:O:526:SER:HB2	2.20	0.42
3:V:192:LEU:C	3:V:489[B]:MET:HE1	2.45	0.42
3:1:53:ASP:OD1	3:7:228:GLY:HA3	2.20	0.42
3:4:82:LEU:HD21	3:4:99:ILE:HD13	2.02	0.42
3:4:192:LEU:C	3:4:489[B]:MET:HE1	2.45	0.42
3:4:306:THR:HA	5:4:715:HOH:O	2.19	0.42
3:L:296:PRO:O	3:L:526:SER:HB2	2.20	0.42
3:Y:464:GLY:HA2	3:Y:475:PRO:O	2.20	0.42
3:4:296:PRO:O	3:4:526:SER:HB2	2.20	0.42
3:I:45:TYR:OH	3:4:173:THR:HG23	2.19	0.42
3:R:82:LEU:HD21	3:R:99:ILE:HD13	2.02	0.42
3:R:296:PRO:O	3:R:526:SER:HB2	2.20	0.42
3:Y:192:LEU:C	3:Y:489[B]:MET:HE1	2.45	0.42
3:1:428:SER:OG	3:1:433:LYS:NZ	2.41	0.42
3:7:306:THR:HA	5:7:714:HOH:O	2.19	0.42
3:U:192:LEU:C	3:U:489[B]:MET:HE1	2.45	0.42
3:U:296:PRO:O	3:U:526:SER:HB2	2.20	0.42
3:C:82:LEU:HD21	3:C:99:ILE:HD13	2.02	0.42
3:F:192:LEU:C	3:F:489[B]:MET:HE1	2.45	0.42
3:R:182:ILE:HD13	3:R:218:VAL:HG13	2.02	0.42
3:1:182:ILE:HD13	3:1:218:VAL:HG13	2.02	0.42
3:7:192:LEU:C	3:7:489[B]:MET:HE1	2.45	0.42
3:U:182:ILE:HD13	3:U:218:VAL:HG13	2.01	0.42
3:C:296:PRO:O	3:C:526:SER:HB2	2.20	0.41
3:I:306:THR:HA	5:I:715:HOH:O	2.19	0.41
3:L:192:LEU:C	3:L:489[B]:MET:HE1	2.45	0.41
3:O:45:TYR:CZ	3:1:169:GLY:HA2	2.55	0.41
3:1:41:GLU:OE2	5:1:701:HOH:O	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1:464:GLY:HA2	3:1:475:PRO:O	2.20	0.41
3:7:296:PRO:O	3:7:526:SER:HB2	2.20	0.41
3:U:306:THR:HA	5:U:718:HOH:O	2.19	0.41
3:C:192:LEU:C	3:C:489[B]:MET:HE1	2.45	0.41
3:C:464:GLY:HA2	3:C:475:PRO:O	2.20	0.41
3:I:192:LEU:C	3:I:489[B]:MET:HE1	2.45	0.41
3:I:296:PRO:O	3:I:526:SER:HB2	2.20	0.41
3:L:182:ILE:HD13	3:L:218:VAL:HG13	2.02	0.41
3:L:228:GLY:HA3	3:V:53:ASP:OD1	2.19	0.41
3:R:464:GLY:HA2	3:R:475:PRO:O	2.20	0.41
3:R:487:LYS:HE3	3:V:511:GLY:O	2.20	0.41
3:V:41:GLU:OE2	5:V:702:HOH:O	2.22	0.41
3:Y:82:LEU:HD21	3:Y:99:ILE:HD13	2.02	0.41
3:1:45:TYR:OH	3:7:173:THR:HG23	2.20	0.41
3:7:82:LEU:HD21	3:7:99:ILE:HD13	2.02	0.41
3:V:278:THR:HB	5:V:800:HOH:O	2.20	0.41
3:V:306:THR:HA	5:V:715:HOH:O	2.19	0.41
3:4:464:GLY:HA2	3:4:475:PRO:O	2.20	0.41
3:U:41:GLU:OE2	5:U:702:HOH:O	2.22	0.41
3:I:82:LEU:HD21	3:I:99:ILE:HD13	2.02	0.41
3:V:464:GLY:HA2	3:V:475:PRO:O	2.20	0.41
3:Y:306:THR:HA	5:Y:713:HOH:O	2.19	0.41
3:C:182:ILE:HD13	3:C:218:VAL:HG13	2.02	0.41
3:C:187:ARG:HH21	3:Y:491:ASP:CG	2.28	0.41
3:C:306:THR:HA	5:C:715:HOH:O	2.19	0.41
2:H:126:GLY:HA2	3:4:232:ASN:CG	2.45	0.41
3:I:482:PHE:CD1	3:4:185:MET:HE1	2.56	0.41
1:S:18:ASP:OD1	1:S:22:LYS:NZ	2.44	0.41
3:Y:428:SER:OG	3:Y:433:LYS:NZ	2.41	0.41
3:1:82:LEU:HD21	3:1:99:ILE:HD13	2.02	0.41
3:7:464:GLY:HA2	3:7:475:PRO:O	2.20	0.41
3:F:224:HIS:ND1	3:F:226:ASP:HB2	2.36	0.41
3:I:464:GLY:HA2	3:I:475:PRO:O	2.20	0.41
3:L:278:THR:HB	5:L:799:HOH:O	2.21	0.41
3:L:306:THR:HA	5:L:716:HOH:O	2.19	0.41
3:O:192:LEU:C	3:O:489[B]:MET:HE1	2.45	0.41
3:O:224:HIS:ND1	3:O:226:ASP:HB2	2.36	0.41
3:V:296:PRO:O	3:V:526:SER:HB2	2.20	0.41
3:Y:278:THR:HB	5:Y:797:HOH:O	2.21	0.41
3:7:224:HIS:ND1	3:7:226:ASP:HB2	2.36	0.41
3:U:454:LYS:HZ3	3:U:454:LYS:HG3	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:U:464:GLY:HA2	3:U:475:PRO:O	2.20	0.41
3:L:82:LEU:HD21	3:L:99:ILE:HD13	2.02	0.41
3:L:464:GLY:HA2	3:L:475:PRO:O	2.20	0.41
3:O:278:THR:HB	5:O:798:HOH:O	2.21	0.41
3:V:224:HIS:ND1	3:V:226:ASP:HB2	2.36	0.41
3:U:278:THR:HB	5:U:801:HOH:O	2.21	0.41
3:C:17:THR:HA	3:C:32:ILE:HG22	2.03	0.41
1:G:28:LEU:HD11	1:8:49:ASP:OD1	2.20	0.41
3:I:224:HIS:ND1	3:I:226:ASP:HB2	2.36	0.41
3:O:82:LEU:HD21	3:O:99:ILE:HD13	2.02	0.41
3:O:464:GLY:HA2	3:O:475:PRO:O	2.20	0.41
3:4:182:ILE:HD13	3:4:218:VAL:HG13	2.02	0.41
3:C:108:MET:HE1	5:C:883:HOH:O	2.21	0.41
3:C:224:HIS:ND1	3:C:226:ASP:HB2	2.36	0.41
3:C:278:THR:HB	5:C:798:HOH:O	2.21	0.41
3:F:17:THR:HA	3:F:32:ILE:HG22	2.03	0.41
3:I:278:THR:HB	5:I:798:HOH:O	2.20	0.41
3:L:572:GLY:H	1:S:7:GLU:HG2	1.86	0.41
3:R:17:THR:HA	3:R:32:ILE:HG22	2.03	0.41
3:R:224:HIS:ND1	3:R:226:ASP:HB2	2.36	0.41
3:1:192:LEU:C	3:1:489[B]:MET:HE1	2.45	0.41
3:1:224:HIS:ND1	3:1:226:ASP:HB2	2.36	0.41
1:2:53:VAL:HG23	3:U:312:ASN:HB3	2.03	0.41
3:4:17:THR:HA	3:4:32:ILE:HG22	2.03	0.41
3:4:41:GLU:OE2	5:4:701:HOH:O	2.22	0.41
3:7:108:MET:HE1	5:7:879:HOH:O	2.21	0.41
3:I:41:GLU:OE2	5:I:701:HOH:O	2.22	0.41
3:I:108:MET:HE1	5:I:884:HOH:O	2.21	0.41
3:L:17:THR:HA	3:L:32:ILE:HG22	2.03	0.41
3:L:434[A]:MET:HE3	3:L:434[A]:MET:HB3	1.87	0.41
3:I:17:THR:HA	3:I:32:ILE:HG22	2.03	0.40
3:L:108:MET:HE1	5:L:882:HOH:O	2.21	0.40
3:R:192:LEU:C	3:R:489[B]:MET:HE1	2.45	0.40
3:R:278:THR:HB	5:R:799:HOH:O	2.21	0.40
3:V:82:LEU:HD21	3:V:99:ILE:HD13	2.02	0.40
3:1:296:PRO:O	3:1:526:SER:HB2	2.20	0.40
3:4:224:HIS:ND1	3:4:226:ASP:HB2	2.36	0.40
3:F:182:ILE:HD13	3:F:218:VAL:HG13	2.02	0.40
3:O:108:MET:HE1	5:O:880:HOH:O	2.21	0.40
3:Y:360:SER:HB3	3:Y:530:LEU:HD13	2.03	0.40
3:1:17:THR:HA	3:1:32:ILE:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:482:PHE:CD1	3:U:185:MET:HE1	2.56	0.40
3:7:278:THR:HB	5:7:800:HOH:O	2.21	0.40
3:U:82:LEU:HD21	3:U:99:ILE:HD13	2.02	0.40
3:C:360:SER:HB3	3:C:530:LEU:HD13	2.03	0.40
3:1:108:MET:HE1	5:1:884:HOH:O	2.21	0.40
3:F:296:PRO:O	3:F:526:SER:HB2	2.20	0.40
3:R:434[A]:MET:HE3	3:R:434[A]:MET:HB3	1.88	0.40
3:Y:296:PRO:O	3:Y:526:SER:HB2	2.20	0.40
3:4:289:ILE:O	3:4:292:VAL:HG22	2.22	0.40
3:U:289:ILE:O	3:U:292:VAL:HG22	2.22	0.40
3:C:289:ILE:O	3:C:292:VAL:HG22	2.22	0.40
3:L:257:GLU:CD	2:T:74:PHE:CD1	3.00	0.40
3:L:307:LEU:HA	3:L:308:PRO:HA	1.99	0.40
3:O:187:ARG:NH2	3:7:491:ASP:OD2	2.53	0.40
3:R:307:LEU:HA	3:R:308:PRO:HA	1.99	0.40
3:1:53:ASP:HB3	3:7:203:ASN:HB2	2.03	0.40
1:2:49:ASP:OD1	1:8:28:LEU:HD11	2.22	0.40
3:4:428:SER:OG	3:4:433:LYS:NZ	2.41	0.40
3:4:481:MET:SD	3:U:166:PRO:HD3	2.62	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	5	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	8	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	A	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	D	106/100 (106%)	103 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	J	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	M	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	P	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	S	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	W	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
1	Z	106/100 (106%)	103 (97%)	3 (3%)	0	100	100
2	0	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	3	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	6	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	9	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	B	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	E	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	H	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	K	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	N	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	Q	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	T	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
2	X	132/132 (100%)	120 (91%)	9 (7%)	3 (2%)	5	1
3	1	569/571 (100%)	536 (94%)	33 (6%)	0	100	100
3	4	569/571 (100%)	537 (94%)	32 (6%)	0	100	100
3	7	569/571 (100%)	537 (94%)	32 (6%)	0	100	100
3	C	569/571 (100%)	538 (95%)	31 (5%)	0	100	100
3	F	569/571 (100%)	537 (94%)	32 (6%)	0	100	100
3	I	569/571 (100%)	536 (94%)	33 (6%)	0	100	100
3	L	569/571 (100%)	537 (94%)	32 (6%)	0	100	100
3	O	569/571 (100%)	536 (94%)	33 (6%)	0	100	100
3	R	569/571 (100%)	537 (94%)	32 (6%)	0	100	100
3	U	569/571 (100%)	536 (94%)	33 (6%)	0	100	100
3	V	569/571 (100%)	537 (94%)	32 (6%)	0	100	100
3	Y	569/571 (100%)	537 (94%)	32 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	9684/9636 (100%)	9117 (94%)	531 (6%)	36 (0%)	31	20

All (36) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	32	GLU
2	E	32	GLU
2	H	32	GLU
2	K	32	GLU
2	N	32	GLU
2	Q	32	GLU
2	T	32	GLU
2	X	32	GLU
2	0	32	GLU
2	3	32	GLU
2	6	32	GLU
2	9	32	GLU
2	B	81	ARG
2	E	81	ARG
2	H	81	ARG
2	K	81	ARG
2	N	81	ARG
2	Q	81	ARG
2	T	81	ARG
2	X	81	ARG
2	0	81	ARG
2	3	81	ARG
2	6	81	ARG
2	9	81	ARG
2	B	80	ASN
2	E	80	ASN
2	H	80	ASN
2	K	80	ASN
2	N	80	ASN
2	Q	80	ASN
2	T	80	ASN
2	X	80	ASN
2	0	80	ASN
2	3	80	ASN
2	6	80	ASN
2	9	80	ASN

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	2	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	5	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	8	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	A	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	D	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	G	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	J	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	M	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	P	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	S	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	W	95/87 (109%)	92 (97%)	3 (3%)	34	24
1	Z	95/87 (109%)	92 (97%)	3 (3%)	34	24
2	0	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	3	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	6	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	9	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	B	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	E	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	H	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	K	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	N	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	Q	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	T	112/110 (102%)	108 (96%)	4 (4%)	31	20
2	X	112/110 (102%)	108 (96%)	4 (4%)	31	20
3	1	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	4	458/456 (100%)	450 (98%)	8 (2%)	53	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	7	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	C	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	F	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	I	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	L	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	O	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	R	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	U	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	V	458/456 (100%)	450 (98%)	8 (2%)	53	48
3	Y	458/456 (100%)	450 (98%)	8 (2%)	53	48
All	All	7980/7836 (102%)	7800 (98%)	180 (2%)	48	37

All (180) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16[A]	LEU
1	A	16[B]	LEU
1	A	75	ASP
2	B	51	GLU
2	B	110	GLU
2	B	154[A]	ARG
2	B	154[B]	ARG
3	C	3	GLN
3	C	4	ILE
3	C	37	ARG
3	C	82	LEU
3	C	203	ASN
3	C	339	GLU
3	C	379	VAL
3	C	454	LYS
1	D	16[A]	LEU
1	D	16[B]	LEU
1	D	75	ASP
2	E	51	GLU
2	E	110	GLU
2	E	154[A]	ARG
2	E	154[B]	ARG
3	F	3	GLN

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Mol	Chain	Res	Type
3	F	4	ILE
3	F	37	ARG
3	F	82	LEU
3	F	203	ASN
3	F	339	GLU
3	F	379	VAL
3	F	454	LYS
1	G	16[A]	LEU
1	G	16[B]	LEU
1	G	75	ASP
2	H	51	GLU
2	H	110	GLU
2	H	154[A]	ARG
2	H	154[B]	ARG
3	I	3	GLN
3	I	4	ILE
3	I	37	ARG
3	I	82	LEU
3	I	203	ASN
3	I	339	GLU
3	I	379	VAL
3	I	454	LYS
1	J	16[A]	LEU
1	J	16[B]	LEU
1	J	75	ASP
2	K	51	GLU
2	K	110	GLU
2	K	154[A]	ARG
2	K	154[B]	ARG
3	L	3	GLN
3	L	4	ILE
3	L	37	ARG
3	L	82	LEU
3	L	203	ASN
3	L	339	GLU
3	L	379	VAL
3	L	454	LYS
1	M	16[A]	LEU
1	M	16[B]	LEU
1	M	75	ASP
2	N	51	GLU
2	N	110	GLU

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Mol	Chain	Res	Type
2	N	154[A]	ARG
2	N	154[B]	ARG
3	O	3	GLN
3	O	4	ILE
3	O	37	ARG
3	O	82	LEU
3	O	203	ASN
3	O	339	GLU
3	O	379	VAL
3	O	454	LYS
1	P	16[A]	LEU
1	P	16[B]	LEU
1	P	75	ASP
2	Q	51	GLU
2	Q	110	GLU
2	Q	154[A]	ARG
2	Q	154[B]	ARG
3	R	3	GLN
3	R	4	ILE
3	R	37	ARG
3	R	82	LEU
3	R	203	ASN
3	R	339	GLU
3	R	379	VAL
3	R	454	LYS
1	S	16[A]	LEU
1	S	16[B]	LEU
1	S	75	ASP
2	T	51	GLU
2	T	110	GLU
2	T	154[A]	ARG
2	T	154[B]	ARG
3	V	3	GLN
3	V	4	ILE
3	V	37	ARG
3	V	82	LEU
3	V	203	ASN
3	V	339	GLU
3	V	379	VAL
3	V	454	LYS
1	W	16[A]	LEU
1	W	16[B]	LEU

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Mol	Chain	Res	Type
1	W	75	ASP
2	X	51	GLU
2	X	110	GLU
2	X	154[A]	ARG
2	X	154[B]	ARG
3	Y	3	GLN
3	Y	4	ILE
3	Y	37	ARG
3	Y	82	LEU
3	Y	203	ASN
3	Y	339	GLU
3	Y	379	VAL
3	Y	454	LYS
1	Z	16[A]	LEU
1	Z	16[B]	LEU
1	Z	75	ASP
2	0	51	GLU
2	0	110	GLU
2	0	154[A]	ARG
2	0	154[B]	ARG
3	1	3	GLN
3	1	4	ILE
3	1	37	ARG
3	1	82	LEU
3	1	203	ASN
3	1	339	GLU
3	1	379	VAL
3	1	454	LYS
1	2	16[A]	LEU
1	2	16[B]	LEU
1	2	75	ASP
2	3	51	GLU
2	3	110	GLU
2	3	154[A]	ARG
2	3	154[B]	ARG
3	4	3	GLN
3	4	4	ILE
3	4	37	ARG
3	4	82	LEU
3	4	203	ASN
3	4	339	GLU
3	4	379	VAL

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Mol	Chain	Res	Type
3	4	454	LYS
1	5	16[A]	LEU
1	5	16[B]	LEU
1	5	75	ASP
2	6	51	GLU
2	6	110	GLU
2	6	154[A]	ARG
2	6	154[B]	ARG
3	7	3	GLN
3	7	4	ILE
3	7	37	ARG
3	7	82	LEU
3	7	203	ASN
3	7	339	GLU
3	7	379	VAL
3	7	454	LYS
1	8	16[A]	LEU
1	8	16[B]	LEU
1	8	75	ASP
2	9	51	GLU
2	9	110	GLU
2	9	154[A]	ARG
2	9	154[B]	ARG
3	U	3	GLN
3	U	4	ILE
3	U	37	ARG
3	U	82	LEU
3	U	203	ASN
3	U	339	GLU
3	U	379	VAL
3	U	454	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (107) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	2	GLN
2	B	52	ASN
2	B	142	ASN
3	C	60	HIS
3	C	150	HIS
3	C	420	GLN
3	C	515	GLN

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Mol	Chain	Res	Type
3	C	528	HIS
3	C	554	HIS
1	D	2	GLN
2	E	52	ASN
2	E	73	HIS
2	E	142	ASN
3	F	60	HIS
3	F	150	HIS
3	F	420	GLN
3	F	467	ASN
3	F	515	GLN
3	F	528	HIS
3	F	554	HIS
1	G	2	GLN
2	H	52	ASN
2	H	142	ASN
3	I	60	HIS
3	I	150	HIS
3	I	420	GLN
3	I	515	GLN
3	I	528	HIS
3	I	554	HIS
1	J	2	GLN
2	K	52	ASN
2	K	73	HIS
3	L	60	HIS
3	L	181	ASN
3	L	420	GLN
3	L	515	GLN
3	L	528	HIS
3	L	554	HIS
1	M	2	GLN
2	N	52	ASN
3	O	60	HIS
3	O	150	HIS
3	O	181	ASN
3	O	420	GLN
3	O	515	GLN
3	O	528	HIS
1	P	2	GLN
2	Q	52	ASN
2	Q	142	ASN

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Mol	Chain	Res	Type
3	R	60	HIS
3	R	181	ASN
3	R	420	GLN
3	R	515	GLN
3	R	528	HIS
3	R	554	HIS
1	S	2	GLN
2	T	52	ASN
2	T	142	ASN
3	V	60	HIS
3	V	420	GLN
3	V	467	ASN
3	V	515	GLN
3	V	528	HIS
3	V	554	HIS
1	W	2	GLN
2	X	52	ASN
2	X	142	ASN
3	Y	60	HIS
3	Y	150	HIS
3	Y	420	GLN
3	Y	515	GLN
3	Y	528	HIS
3	Y	554	HIS
1	Z	2	GLN
2	0	52	ASN
3	1	60	HIS
3	1	150	HIS
3	1	420	GLN
3	1	515	GLN
3	1	528	HIS
3	1	554	HIS
1	2	2	GLN
2	3	52	ASN
3	4	60	HIS
3	4	150	HIS
3	4	420	GLN
3	4	515	GLN
3	4	528	HIS
3	4	554	HIS
1	5	2	GLN
2	6	52	ASN

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Mol	Chain	Res	Type
3	7	60	HIS
3	7	150	HIS
3	7	420	GLN
3	7	515	GLN
3	7	528	HIS
3	7	554	HIS
1	8	2	GLN
1	8	81	GLN
2	9	52	ASN
2	9	142	ASN
3	U	60	HIS
3	U	150	HIS
3	U	420	GLN
3	U	515	GLN
3	U	528	HIS
3	U	554	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

12 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	KCX	Y	222	3,4	10,11,12	1.68	2 (20%)	6,12,14	2.46	1 (16%)
3	KCX	C	222	3,4	10,11,12	1.69	3 (30%)	6,12,14	2.46	1 (16%)
3	KCX	1	222	3,4	10,11,12	1.70	3 (30%)	6,12,14	2.47	1 (16%)
3	KCX	F	222	3,4	10,11,12	1.42	1 (10%)	6,12,14	1.04	0
3	KCX	7	222	3,4	10,11,12	1.42	2 (20%)	6,12,14	1.05	0
3	KCX	U	222	3,4	10,11,12	1.69	3 (30%)	6,12,14	2.45	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	KCX	I	222	3,4	10,11,12	1.69	3 (30%)	6,12,14	2.46	1 (16%)
3	KCX	V	222	3,4	10,11,12	1.43	2 (20%)	6,12,14	1.05	0
3	KCX	R	222	3,4	10,11,12	1.68	2 (20%)	6,12,14	2.46	1 (16%)
3	KCX	O	222	3,4	10,11,12	1.68	3 (30%)	6,12,14	2.47	1 (16%)
3	KCX	L	222	3,4	10,11,12	1.67	2 (20%)	6,12,14	2.47	1 (16%)
3	KCX	4	222	3,4	10,11,12	1.68	3 (30%)	6,12,14	2.47	1 (16%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	KCX	Y	222	3,4	-	0/9/10/12	-
3	KCX	C	222	3,4	-	0/9/10/12	-
3	KCX	1	222	3,4	-	0/9/10/12	-
3	KCX	F	222	3,4	-	0/9/10/12	-
3	KCX	7	222	3,4	-	0/9/10/12	-
3	KCX	U	222	3,4	-	0/9/10/12	-
3	KCX	I	222	3,4	-	0/9/10/12	-
3	KCX	V	222	3,4	-	0/9/10/12	-
3	KCX	R	222	3,4	-	0/9/10/12	-
3	KCX	O	222	3,4	-	0/9/10/12	-
3	KCX	L	222	3,4	-	0/9/10/12	-
3	KCX	4	222	3,4	-	0/9/10/12	-

All (29) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1	222	KCX	OQ1-CX	2.99	1.27	1.21
3	C	222	KCX	OQ1-CX	2.96	1.27	1.21
3	I	222	KCX	OQ1-CX	2.96	1.27	1.21
3	4	222	KCX	OQ1-CX	2.95	1.27	1.21
3	L	222	KCX	OQ1-CX	2.95	1.27	1.21
3	Y	222	KCX	OQ1-CX	2.94	1.27	1.21
3	U	222	KCX	OQ1-CX	2.94	1.27	1.21
3	O	222	KCX	OQ1-CX	2.93	1.27	1.21
3	R	222	KCX	OQ1-CX	2.93	1.27	1.21
3	U	222	KCX	CX-NZ	-2.30	1.31	1.35
3	R	222	KCX	CX-NZ	-2.30	1.31	1.35
3	F	222	KCX	CX-NZ	-2.29	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	222	KCX	CX-NZ	-2.29	1.31	1.35
3	C	222	KCX	CX-NZ	-2.29	1.31	1.35
3	7	222	KCX	CX-NZ	-2.28	1.31	1.35
3	Y	222	KCX	CX-NZ	-2.28	1.31	1.35
3	1	222	KCX	CX-NZ	-2.28	1.31	1.35
3	V	222	KCX	CX-NZ	-2.28	1.31	1.35
3	O	222	KCX	CX-NZ	-2.27	1.31	1.35
3	4	222	KCX	CX-NZ	-2.26	1.31	1.35
3	L	222	KCX	CX-NZ	-2.22	1.31	1.35
3	7	222	KCX	CB-CA	-2.04	1.50	1.53
3	V	222	KCX	CB-CA	-2.03	1.50	1.53
3	4	222	KCX	CB-CA	-2.03	1.50	1.53
3	O	222	KCX	CB-CA	-2.01	1.50	1.53
3	C	222	KCX	CB-CA	-2.01	1.50	1.53
3	1	222	KCX	CB-CA	-2.01	1.50	1.53
3	I	222	KCX	CB-CA	-2.01	1.50	1.53
3	U	222	KCX	CB-CA	-2.00	1.50	1.53

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	222	KCX	OQ1-CX-NZ	-5.62	116.39	124.92
3	4	222	KCX	OQ1-CX-NZ	-5.62	116.39	124.92
3	O	222	KCX	OQ1-CX-NZ	-5.61	116.39	124.92
3	1	222	KCX	OQ1-CX-NZ	-5.61	116.40	124.92
3	Y	222	KCX	OQ1-CX-NZ	-5.60	116.41	124.92
3	C	222	KCX	OQ1-CX-NZ	-5.60	116.42	124.92
3	I	222	KCX	OQ1-CX-NZ	-5.59	116.42	124.92
3	R	222	KCX	OQ1-CX-NZ	-5.59	116.43	124.92
3	U	222	KCX	OQ1-CX-NZ	-5.57	116.46	124.92

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 24 ligands modelled in this entry, 24 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	I	7
3	O	7
3	V	7
3	1	7
3	U	7
3	7	6
3	C	6
3	F	6
3	L	6
3	R	6
3	Y	6
3	4	6
2	B	3
2	E	3
2	H	3
2	K	3
2	N	3
2	Q	3
2	T	3
2	X	3
2	0	3

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Mol	Chain	Number of breaks
2	3	3
2	6	3
2	9	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	156:VAL	C	157:ALA	N	1.20
1	O	156:VAL	C	157:ALA	N	1.20
1	V	156:VAL	C	157:ALA	N	1.20
1	1	156:VAL	C	157:ALA	N	1.20
1	U	156:VAL	C	157:ALA	N	1.20
1	7	201:LYS	C	202:GLY	N	1.19
1	C	201:LYS	C	202:GLY	N	1.18
1	C	396:ASP	C	397:ALA	N	1.18
1	F	201:LYS	C	202:GLY	N	1.18
1	F	396:ASP	C	397:ALA	N	1.18
1	I	201:LYS	C	202:GLY	N	1.18
1	I	396:ASP	C	397:ALA	N	1.18
1	L	201:LYS	C	202:GLY	N	1.18
1	L	396:ASP	C	397:ALA	N	1.18
1	O	201:LYS	C	202:GLY	N	1.18
1	O	396:ASP	C	397:ALA	N	1.18
1	R	201:LYS	C	202:GLY	N	1.18
1	R	396:ASP	C	397:ALA	N	1.18
1	V	201:LYS	C	202:GLY	N	1.18
1	V	396:ASP	C	397:ALA	N	1.18
1	Y	201:LYS	C	202:GLY	N	1.18
1	Y	396:ASP	C	397:ALA	N	1.18
1	1	201:LYS	C	202:GLY	N	1.18
1	1	396:ASP	C	397:ALA	N	1.18
1	4	201:LYS	C	202:GLY	N	1.18
1	4	396:ASP	C	397:ALA	N	1.18
1	7	396:ASP	C	397:ALA	N	1.18
1	U	201:LYS	C	202:GLY	N	1.18
1	U	396:ASP	C	397:ALA	N	1.18
1	B	52:ASN	C	53:LYS	N	1.16
1	C	294:SER	C	295:GLN	N	1.16
1	E	52:ASN	C	53:LYS	N	1.16
1	F	294:SER	C	295:GLN	N	1.16
1	H	52:ASN	C	53:LYS	N	1.16
1	I	294:SER	C	295:GLN	N	1.16
1	K	52:ASN	C	53:LYS	N	1.16

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	294:SER	C	295:GLN	N	1.16
1	N	52:ASN	C	53:LYS	N	1.16
1	O	294:SER	C	295:GLN	N	1.16
1	Q	52:ASN	C	53:LYS	N	1.16
1	R	294:SER	C	295:GLN	N	1.16
1	T	52:ASN	C	53:LYS	N	1.16
1	V	294:SER	C	295:GLN	N	1.16
1	X	52:ASN	C	53:LYS	N	1.16
1	Y	294:SER	C	295:GLN	N	1.16
1	0	52:ASN	C	53:LYS	N	1.16
1	1	294:SER	C	295:GLN	N	1.16
1	3	52:ASN	C	53:LYS	N	1.16
1	4	294:SER	C	295:GLN	N	1.16
1	6	52:ASN	C	53:LYS	N	1.16
1	7	294:SER	C	295:GLN	N	1.16
1	9	52:ASN	C	53:LYS	N	1.16
1	U	294:SER	C	295:GLN	N	1.16
1	B	153[A]:ARG	C	154:ARG	N	1.15
1	E	153[A]:ARG	C	154:ARG	N	1.15
1	H	153[A]:ARG	C	154:ARG	N	1.15
1	K	153[A]:ARG	C	154:ARG	N	1.15
1	N	153[A]:ARG	C	154:ARG	N	1.15
1	Q	153[A]:ARG	C	154:ARG	N	1.15
1	T	153[A]:ARG	C	154:ARG	N	1.15
1	X	153[A]:ARG	C	154:ARG	N	1.15
1	0	153[A]:ARG	C	154:ARG	N	1.15
1	3	153[A]:ARG	C	154:ARG	N	1.15
1	6	153[A]:ARG	C	154:ARG	N	1.15
1	9	153[A]:ARG	C	154:ARG	N	1.15
1	C	199:LEU	C	200:GLY	N	1.14
1	F	199:LEU	C	200:GLY	N	1.14
1	I	199:LEU	C	200:GLY	N	1.14
1	L	199:LEU	C	200:GLY	N	1.14
1	O	199:LEU	C	200:GLY	N	1.14
1	R	199:LEU	C	200:GLY	N	1.14
1	V	199:LEU	C	200:GLY	N	1.14
1	Y	199:LEU	C	200:GLY	N	1.14
1	1	199:LEU	C	200:GLY	N	1.14
1	4	199:LEU	C	200:GLY	N	1.14
1	7	199:LEU	C	200:GLY	N	1.14
1	U	199:LEU	C	200:GLY	N	1.14
1	B	153[B]:ARG	C	154:ARG	N	1.13

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	153[B]:ARG	C	154:ARG	N	1.13
1	H	153[B]:ARG	C	154:ARG	N	1.13
1	K	153[B]:ARG	C	154:ARG	N	1.13
1	N	153[B]:ARG	C	154:ARG	N	1.13
1	Q	153[B]:ARG	C	154:ARG	N	1.13
1	T	153[B]:ARG	C	154:ARG	N	1.13
1	X	153[B]:ARG	C	154:ARG	N	1.13
1	0	153[B]:ARG	C	154:ARG	N	1.13
1	3	153[B]:ARG	C	154:ARG	N	1.13
1	6	153[B]:ARG	C	154:ARG	N	1.13
1	9	153[B]:ARG	C	154:ARG	N	1.13
1	C	364:SER	C	365:ASP	N	1.12
1	F	364:SER	C	365:ASP	N	1.12
1	I	364:SER	C	365:ASP	N	1.12
1	L	364:SER	C	365:ASP	N	1.12
1	O	364:SER	C	365:ASP	N	1.12
1	R	364:SER	C	365:ASP	N	1.12
1	V	364:SER	C	365:ASP	N	1.12
1	Y	364:SER	C	365:ASP	N	1.12
1	1	364:SER	C	365:ASP	N	1.12
1	4	364:SER	C	365:ASP	N	1.12
1	7	364:SER	C	365:ASP	N	1.12
1	U	364:SER	C	365:ASP	N	1.12
1	C	29:PHE	C	30:ILE	N	1.11
1	F	29:PHE	C	30:ILE	N	1.11
1	I	29:PHE	C	30:ILE	N	1.11
1	L	29:PHE	C	30:ILE	N	1.11
1	O	29:PHE	C	30:ILE	N	1.11
1	R	29:PHE	C	30:ILE	N	1.11
1	V	29:PHE	C	30:ILE	N	1.11
1	Y	29:PHE	C	30:ILE	N	1.11
1	1	29:PHE	C	30:ILE	N	1.11
1	4	29:PHE	C	30:ILE	N	1.11
1	7	29:PHE	C	30:ILE	N	1.11
1	U	29:PHE	C	30:ILE	N	1.11

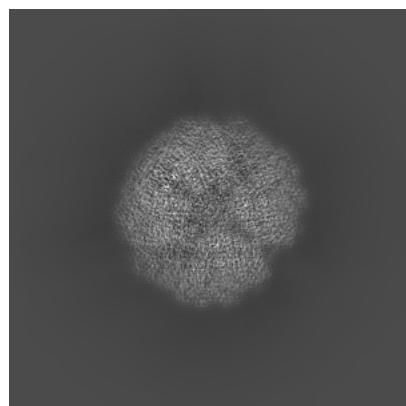
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10835. These allow visual inspection of the internal detail of the map and identification of artifacts.

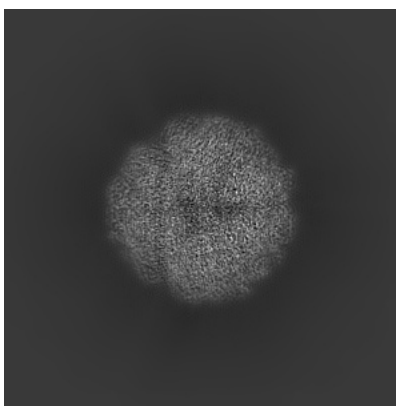
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

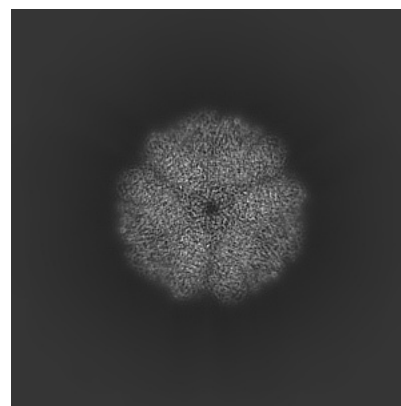
6.1.1 Primary map



X

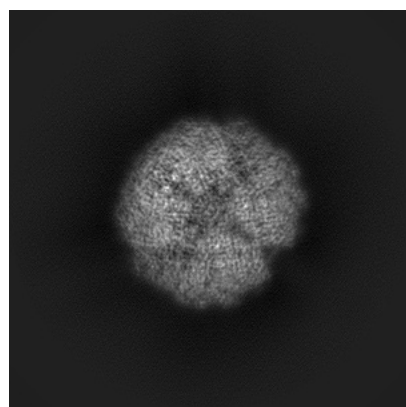


Y

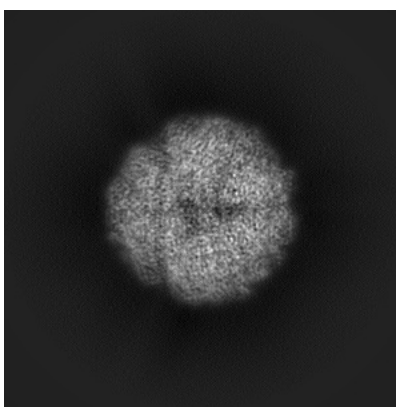


Z

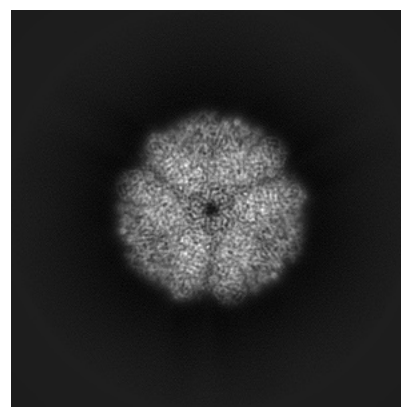
6.1.2 Raw map



X



Y

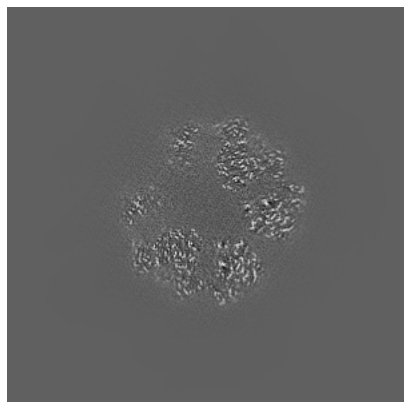


Z

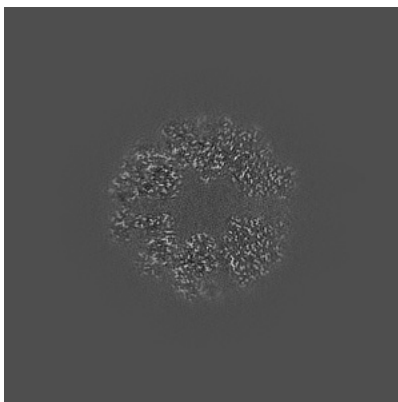
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

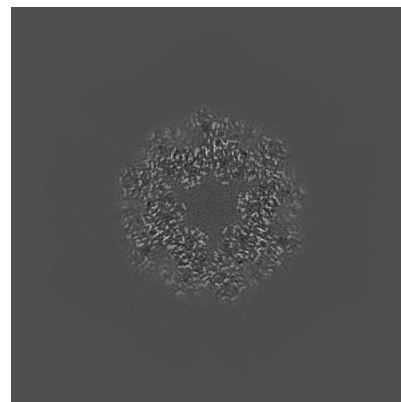
6.2.1 Primary map



X Index: 256

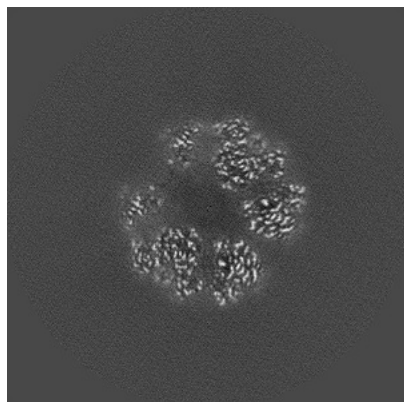


Y Index: 256

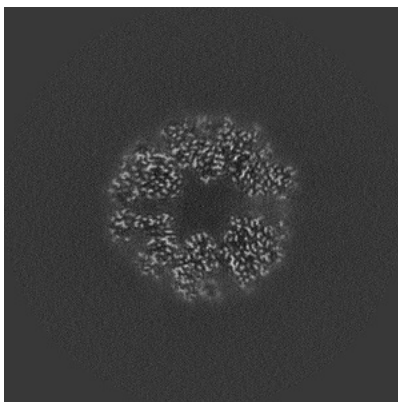


Z Index: 256

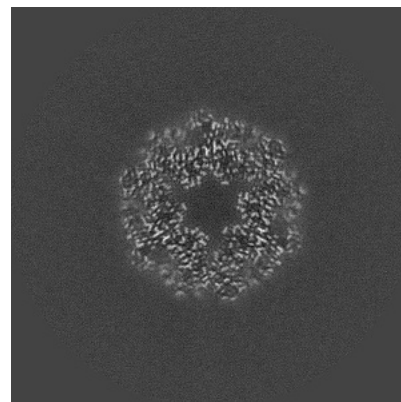
6.2.2 Raw map



X Index: 256



Y Index: 256

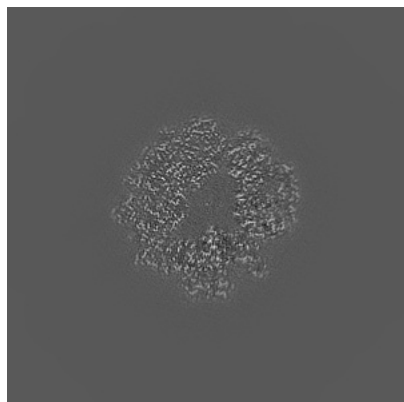


Z Index: 256

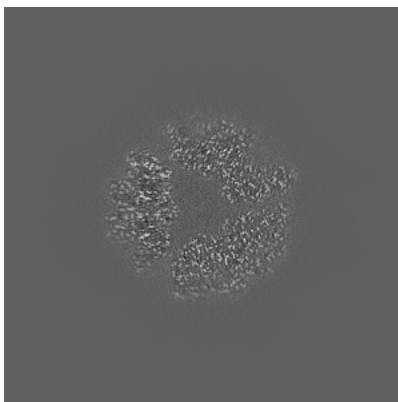
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

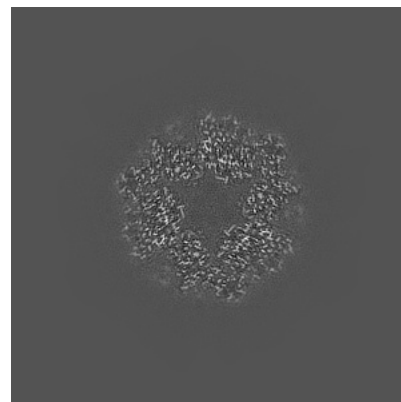
6.3.1 Primary map



X Index: 288

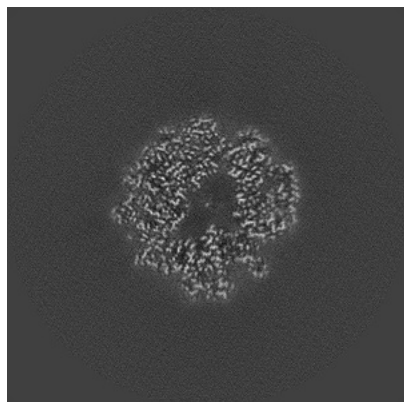


Y Index: 243

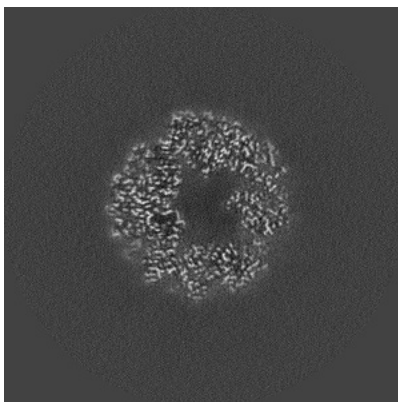


Z Index: 250

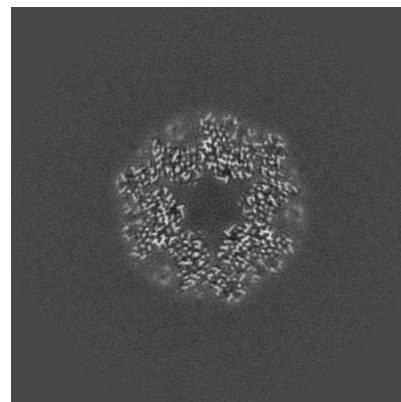
6.3.2 Raw map



X Index: 288



Y Index: 273

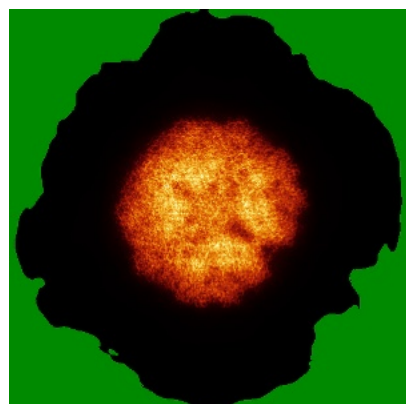


Z Index: 250

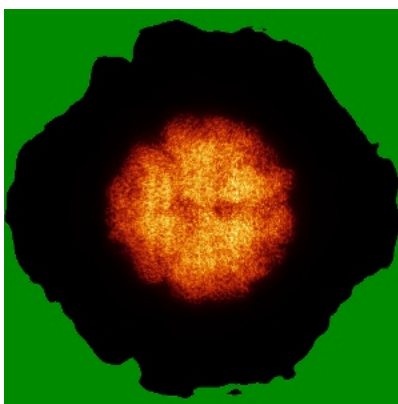
The images above show the largest variance slices of the map in three orthogonal directions.

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

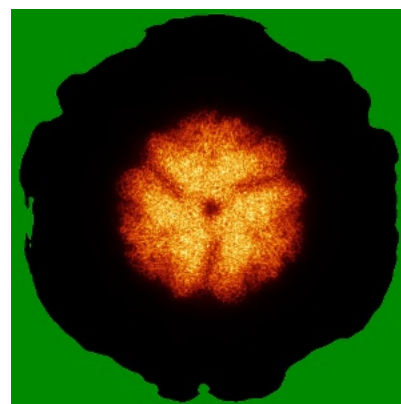
6.4.1 Primary map



X

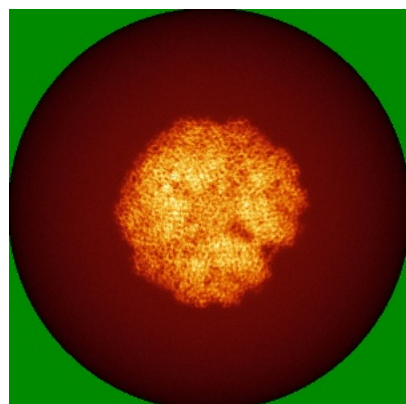


Y

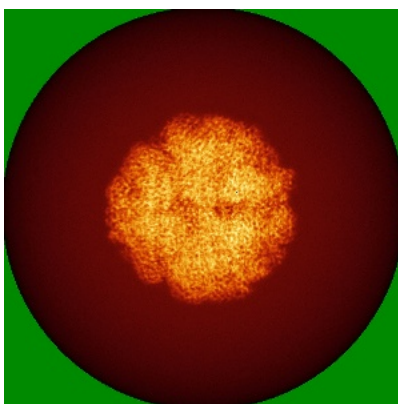


Z

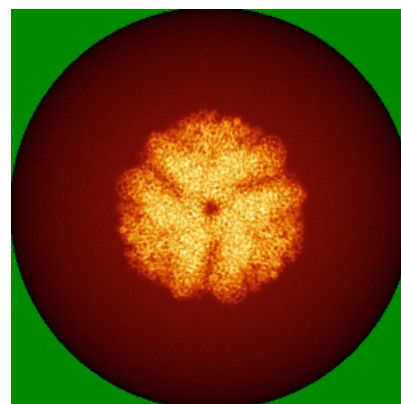
6.4.2 Raw map



X



Y

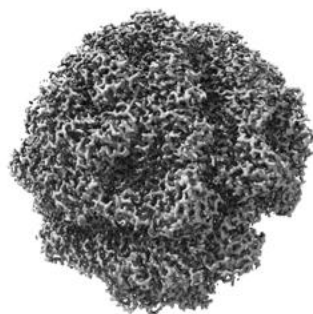


Z

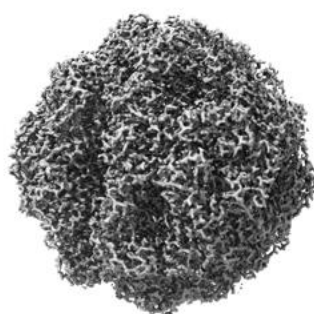
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

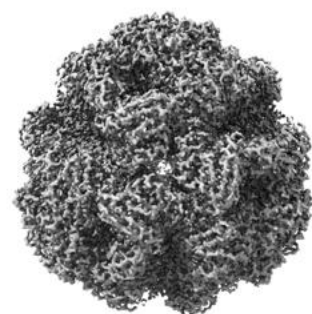
6.5.1 Primary map



X



Y



Z

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

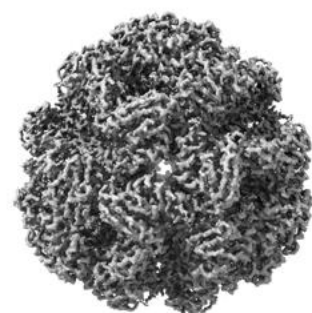
6.5.2 Raw map



X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

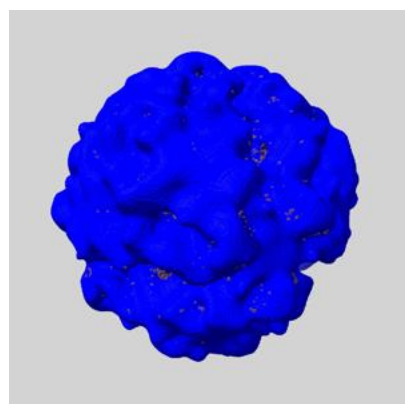
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

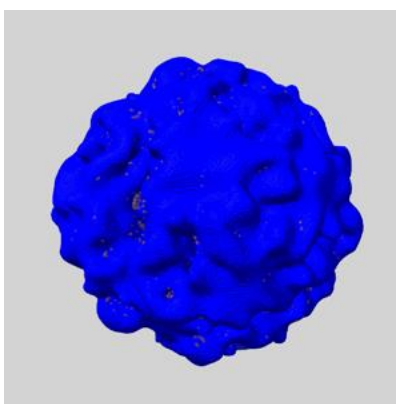
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

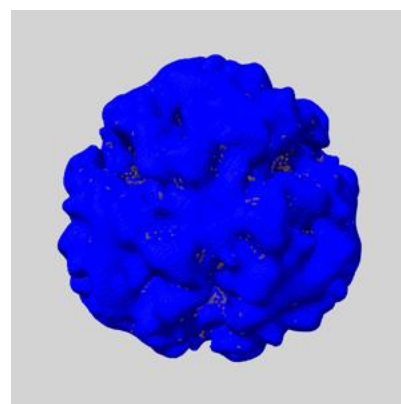
6.6.1 emd_10835_msk_1.map [i](#)



X



Y

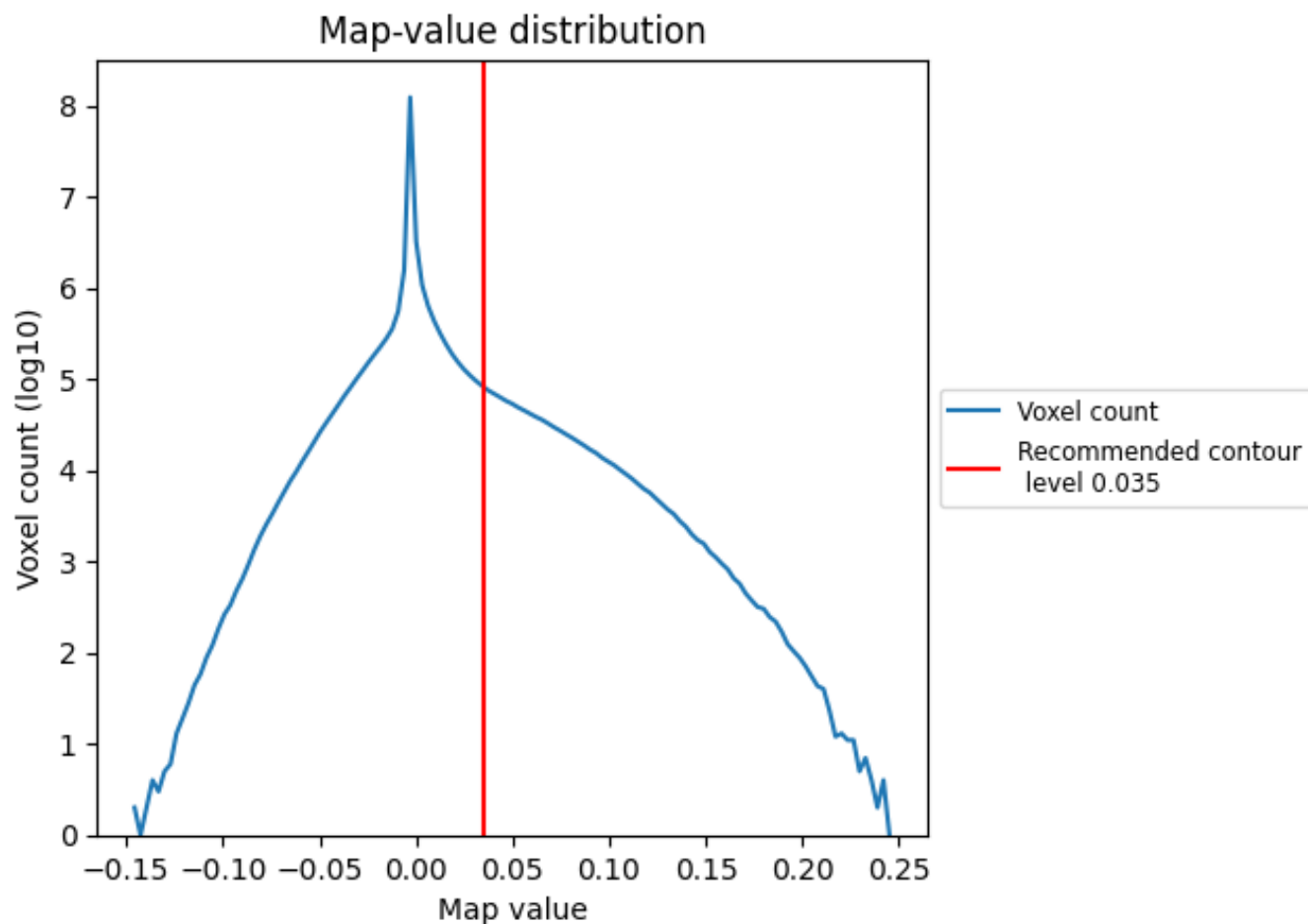


Z

7 Map analysis [i](#)

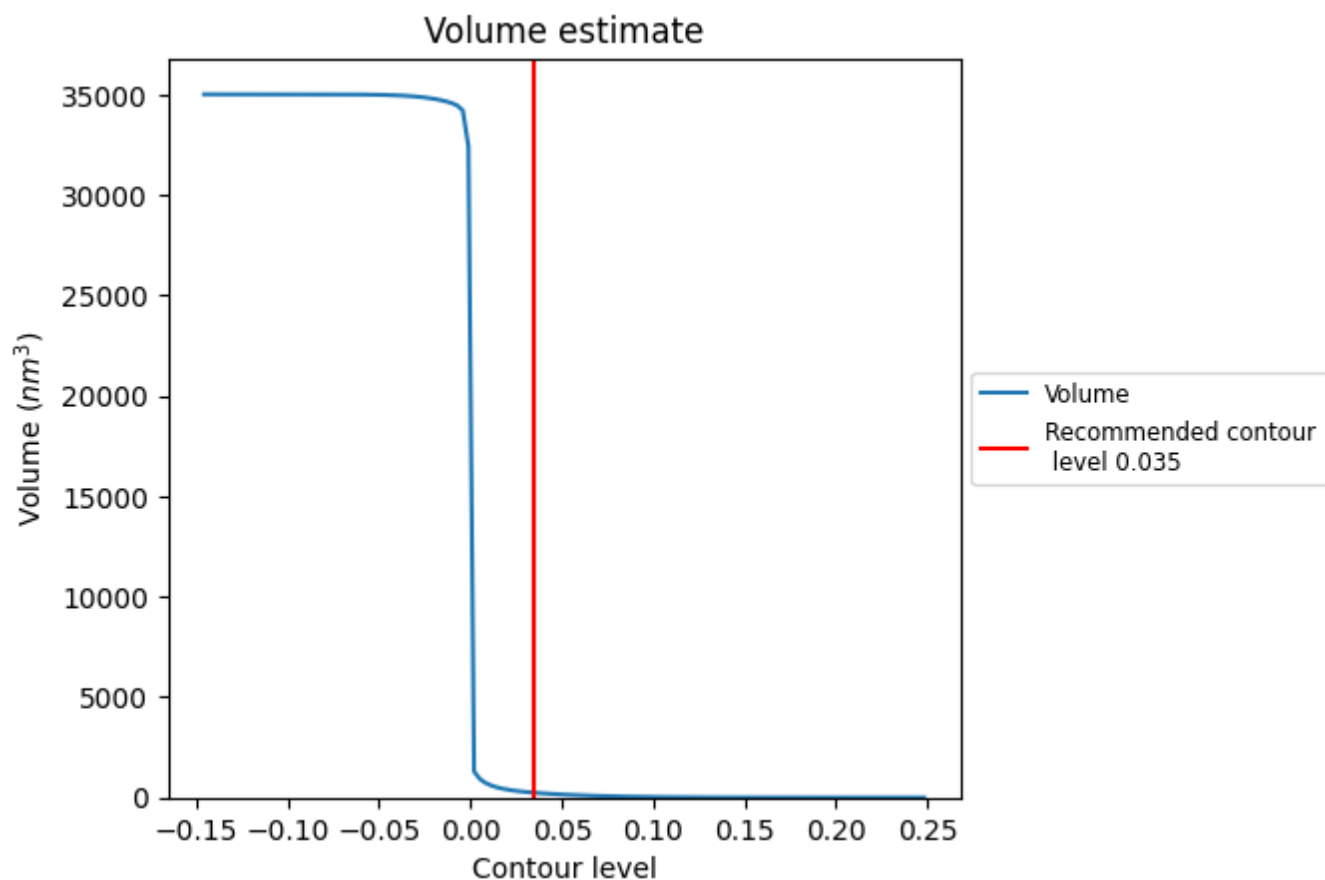
This section contains the results of statistical analysis of the map.

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.

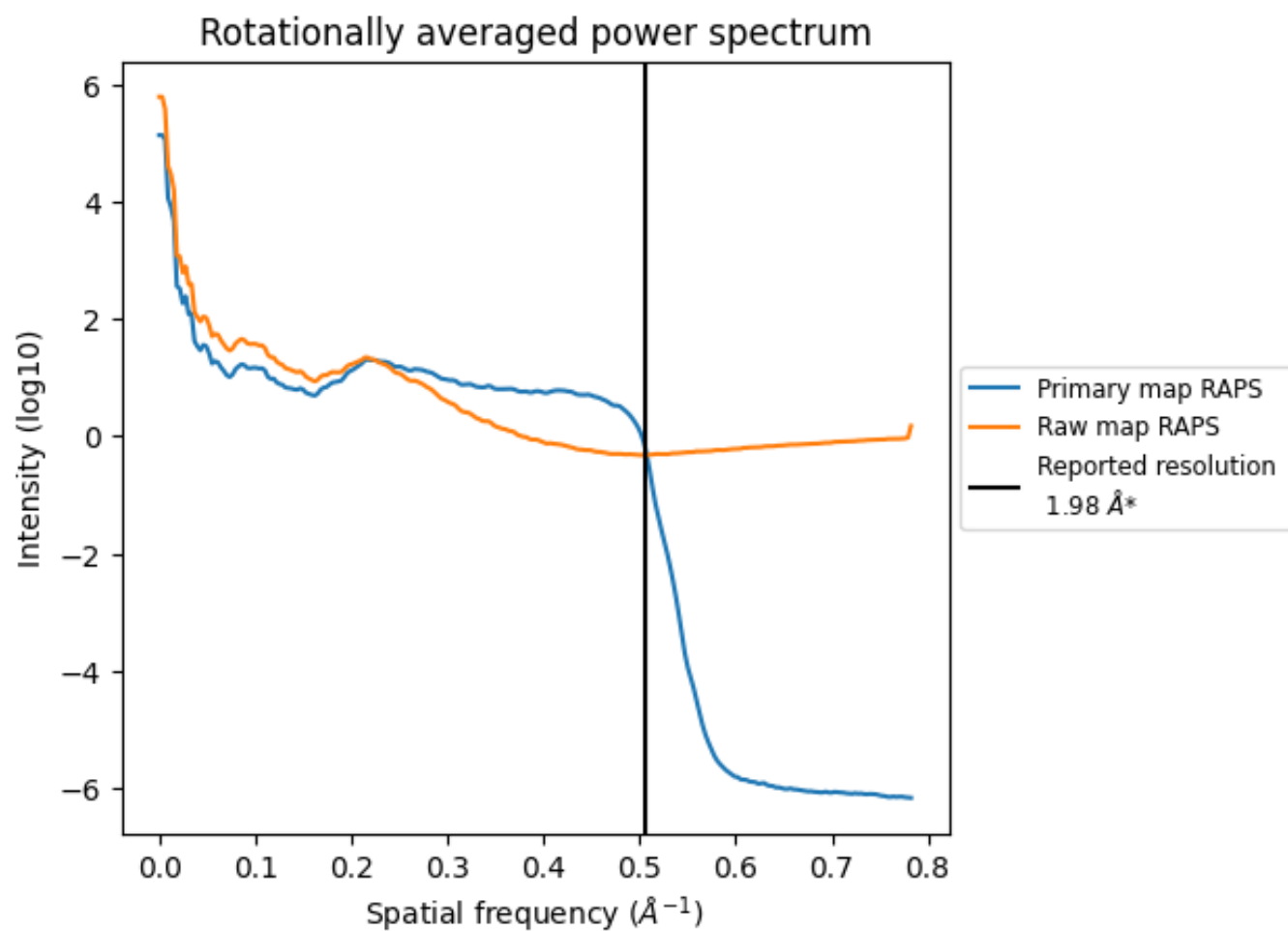
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 240 nm^3 ; this corresponds to an approximate mass of 217 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 ⓘ

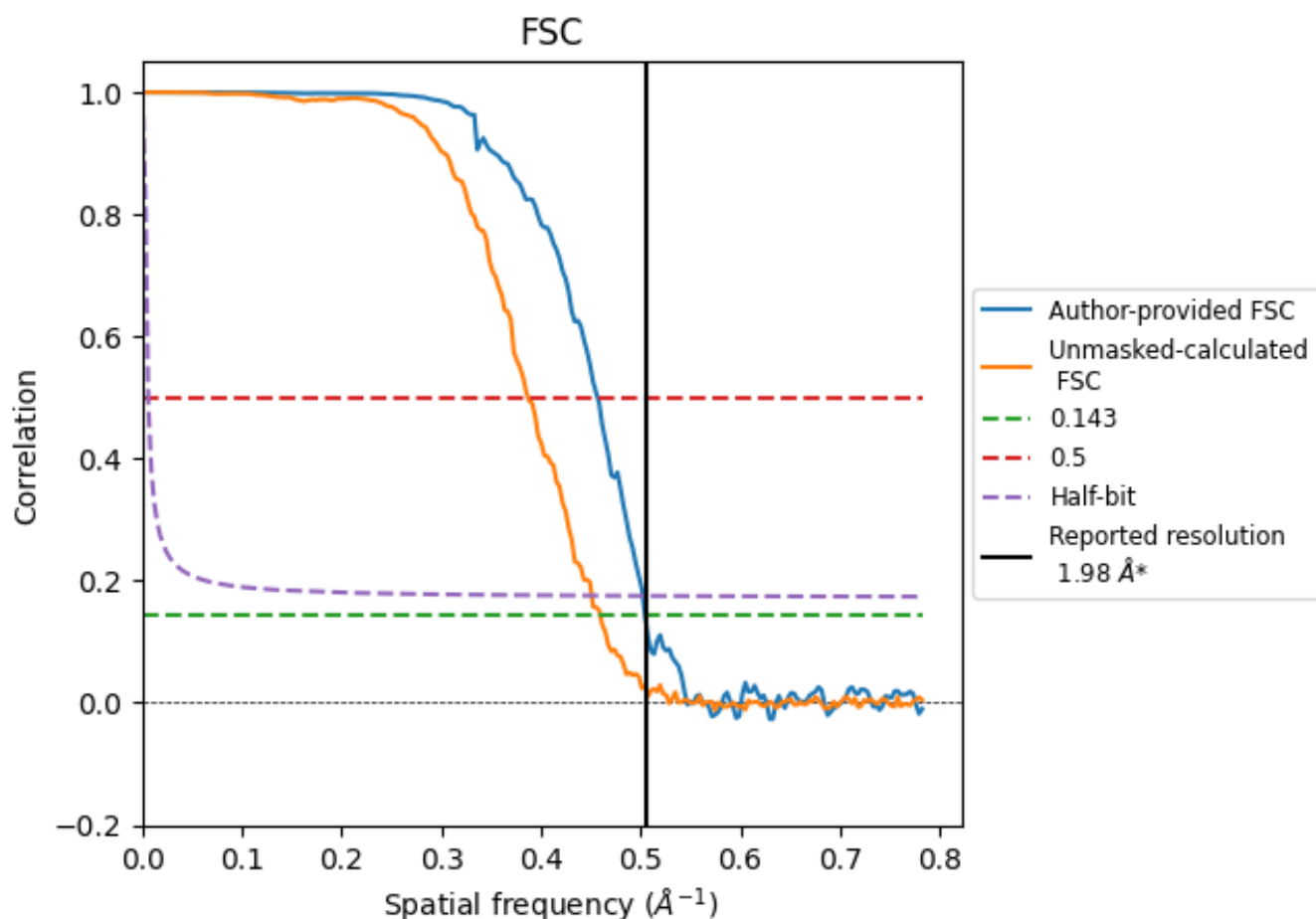


*Reported resolution corresponds to spatial frequency of 0.505 $\text{\AA}^{-1}$

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 0.505 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

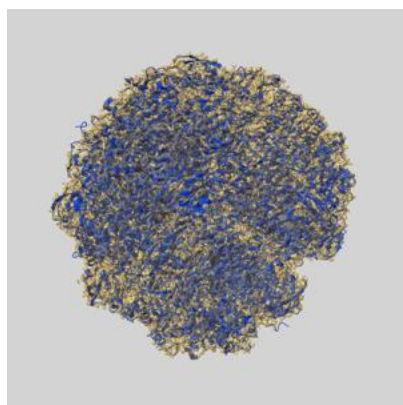
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	1.98	-	-
Author-provided FSC curve	1.98	2.19	1.99
Unmasked-calculated*	2.18	2.58	2.22

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.18 differs from the reported value 1.98 by more than 10 %

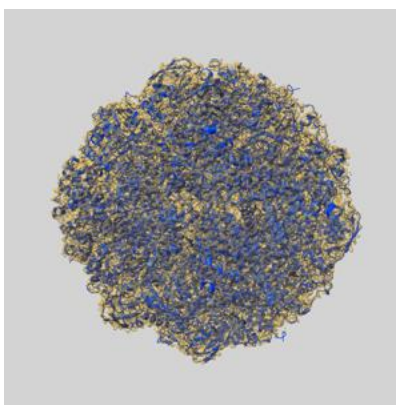
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-10835 and PDB model 6YL3. Per-residue inclusion information can be found in section [3](#) on page [10](#).

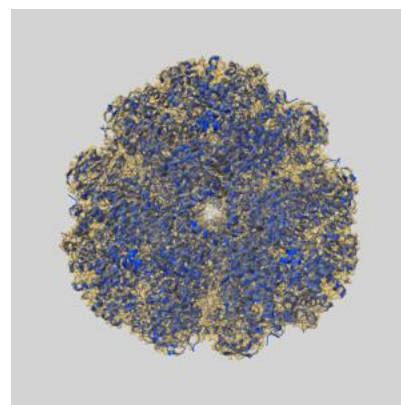
9.1 Map-model overlay [i](#)



X



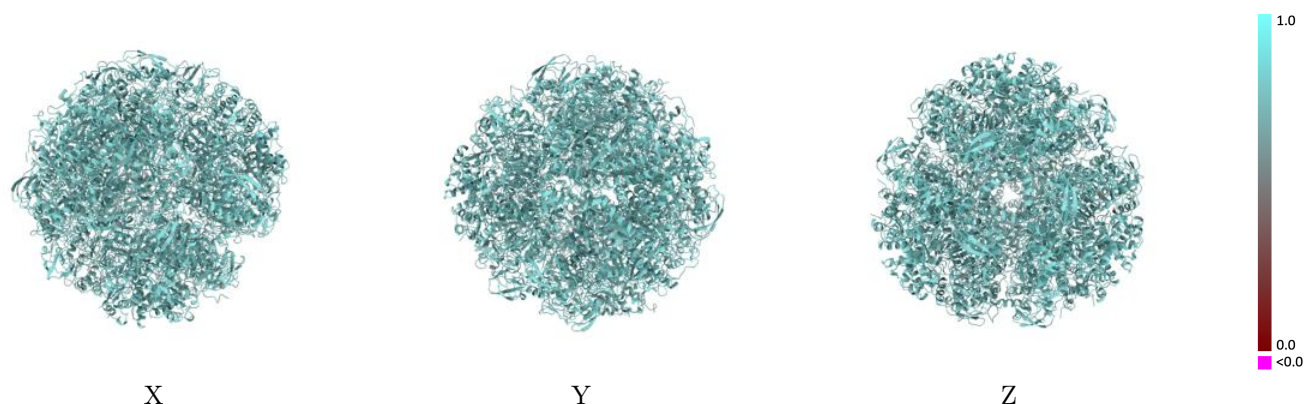
Y



Z

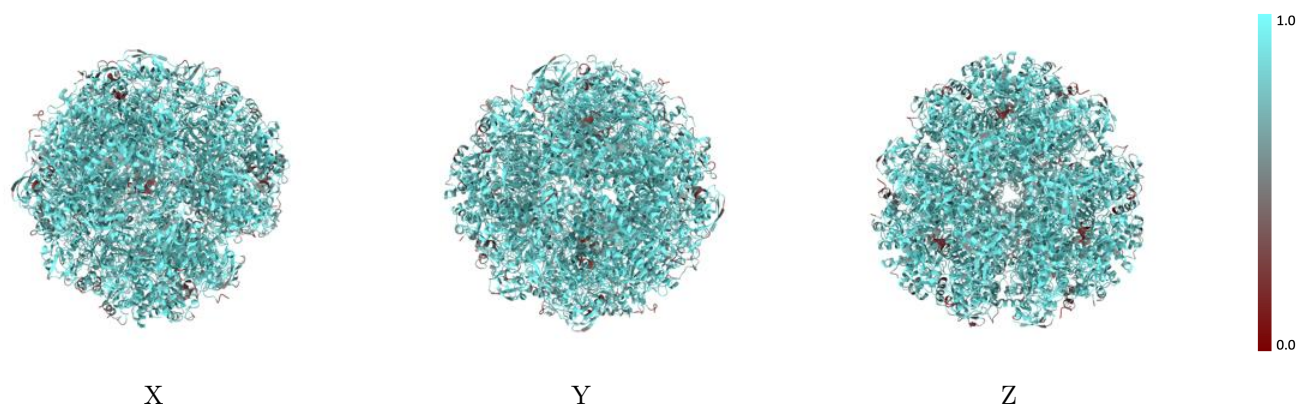
The images above show the 3D surface view of the map at the recommended contour level 0.035 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



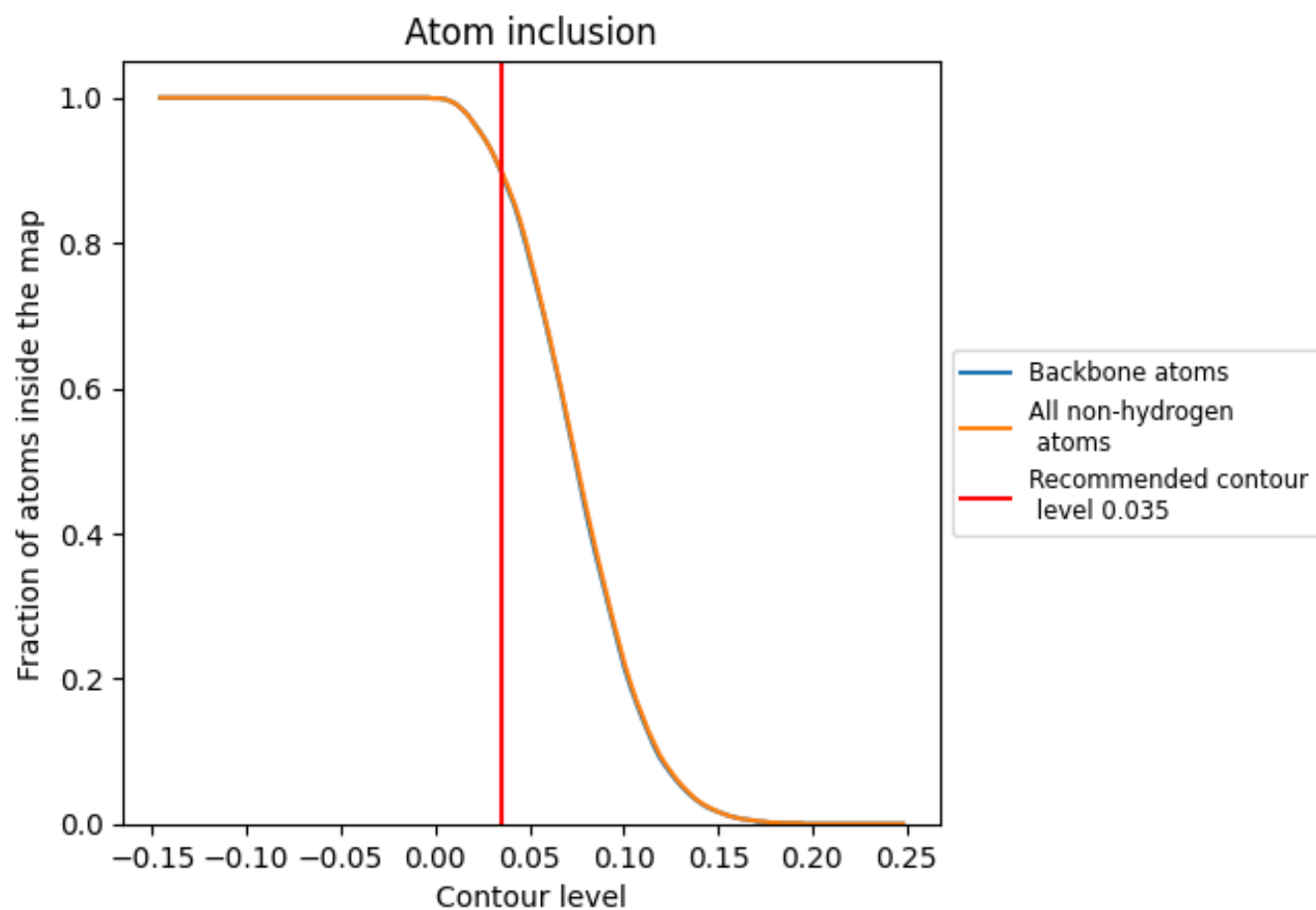
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 90% of all backbone atoms, 90% 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	 0.9000	 0.7670
0	 0.8400	 0.7590
1	 0.9230	 0.7790
2	 0.8770	 0.7620
3	 0.8310	 0.7530
4	 0.9210	 0.7720
5	 0.8810	 0.7610
6	 0.8330	 0.7460
7	 0.9220	 0.7760
8	 0.8770	 0.7570
9	 0.8260	 0.7350
A	 0.8790	 0.7670
B	 0.8420	 0.7630
C	 0.9260	 0.7840
D	 0.8800	 0.7660
E	 0.8340	 0.7590
F	 0.9250	 0.7800
G	 0.8750	 0.7600
H	 0.8390	 0.7560
I	 0.9200	 0.7740
J	 0.8770	 0.7660
K	 0.8250	 0.7360
L	 0.9120	 0.7490
M	 0.8750	 0.7660
N	 0.8340	 0.7560
O	 0.9210	 0.7730
P	 0.8800	 0.7650
Q	 0.8340	 0.7410
R	 0.9200	 0.7700
S	 0.8790	 0.7670
T	 0.8240	 0.7380
U	 0.9140	 0.7600
V	 0.9190	 0.7660
W	 0.8770	 0.7620
X	 0.8380	 0.7580



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Chain	Atom inclusion	Q-score
Y	 0.9230	 0.7760
Z	 0.8830	 0.7640