



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 02:07 AM UTC

PDB ID : 5IJN / pdb_00005ijn
EMDB ID : EMD-8085
Title : Composite structure of the inner ring of the human nuclear pore complex (32 copies of Nup205)
Authors : Kosinski, J.; Mosalaganti, S.; von Appen, A.; Beck, M.
Deposited on : 2016-03-02
Resolution : 21.40 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

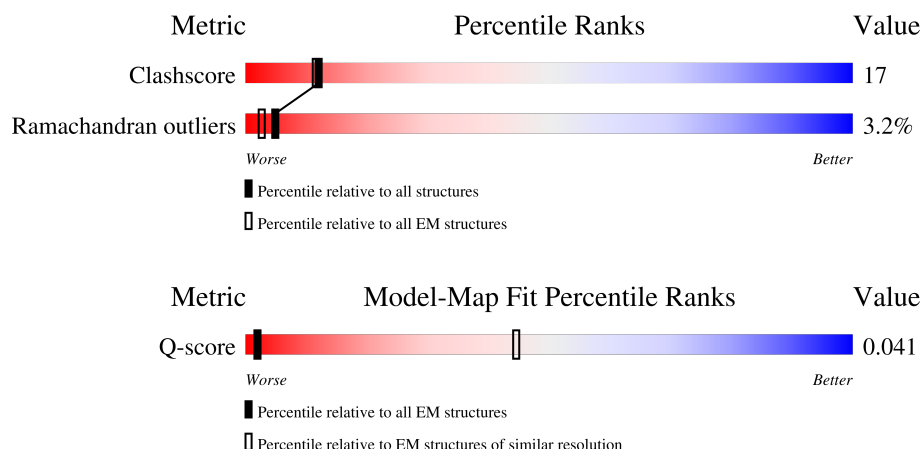
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 21.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Q-score	-	25397	9 (21.00 - 21.60)

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

Mol	Chain	Length	Quality of chain
1	1-A	1391	
1	1-B	1391	
1	1-E	1391	
1	1-K	1391	
1	1-Q	1391	

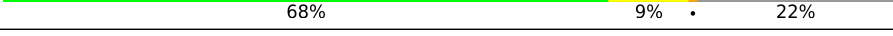
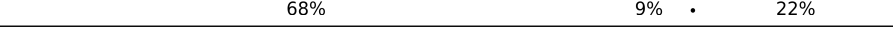
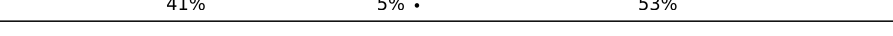
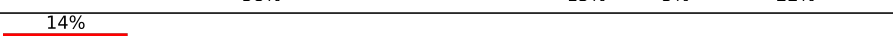
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Mol	Chain	Length	Quality of chain
1	1-W	1391	17% 69% 8% • 22%
1	2-A	1391	41% 5% • 53%
1	2-B	1391	41% 5% • 53%
1	2-E	1391	68% 8% • 22%
1	2-K	1391	67% 9% • 22%
1	2-Q	1391	69% 8% • 22%
1	2-W	1391	67% 10% • 22%
1	3-A	1391	41% 5% • 53%
1	3-B	1391	41% 5% • 53%
1	3-E	1391	68% 8% • 22%
1	3-K	1391	67% 9% • 22%
1	3-Q	1391	69% 8% • 22%
1	3-W	1391	67% 10% • 22%
1	4-A	1391	41% 5% • 53%
1	4-B	1391	41% 5% • 53%
1	4-E	1391	68% 8% • 22%
1	4-K	1391	67% 9% • 22%
1	4-Q	1391	69% 8% • 22%
1	4-W	1391	67% 10% • 22%
1	5-A	1391	41% 5% • 53%
1	5-B	1391	41% 5% • 53%
1	5-E	1391	68% 8% • 22%
1	5-K	1391	67% 9% • 22%
1	5-Q	1391	69% 8% • 22%
1	5-W	1391	67% 10% • 22%

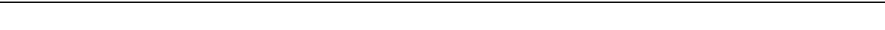
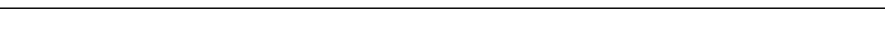
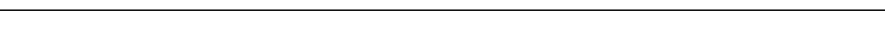
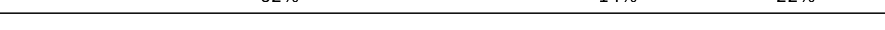
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Mol	Chain	Length	Quality of chain
1	6-A	1391	
1	6-B	1391	
1	6-E	1391	
1	6-K	1391	
1	6-Q	1391	
1	6-W	1391	
1	7-A	1391	
1	7-B	1391	
1	7-E	1391	
1	7-K	1391	
1	7-Q	1391	
1	7-W	1391	
1	8-A	1391	
1	8-B	1391	
1	8-E	1391	
1	8-K	1391	
1	8-Q	1391	
1	8-W	1391	
2	1-C	819	
2	1-I	819	
2	1-O	819	
2	1-U	819	
2	2-C	819	
2	2-I	819	
2	2-O	819	

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Mol	Chain	Length	Quality of chain
2	2-U	819	
2	3-C	819	
2	3-I	819	
2	3-O	819	
2	3-U	819	
2	4-C	819	
2	4-I	819	
2	4-O	819	
2	4-U	819	
2	5-C	819	
2	5-I	819	
2	5-O	819	
2	5-U	819	
2	6-C	819	
2	6-I	819	
2	6-O	819	
2	6-U	819	
2	7-C	819	
2	7-I	819	
2	7-O	819	
2	7-U	819	
2	8-C	819	
2	8-I	819	
2	8-O	819	
2	8-U	819	

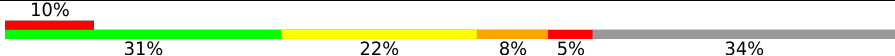
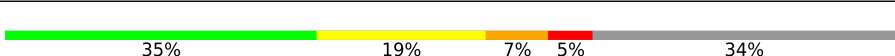
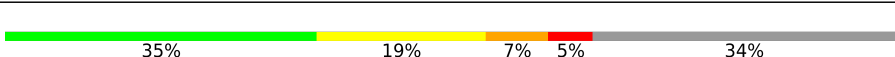
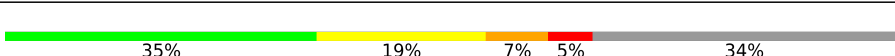
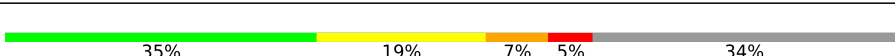
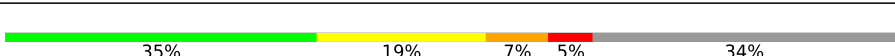
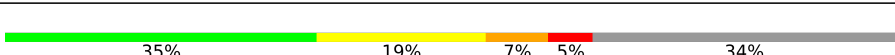
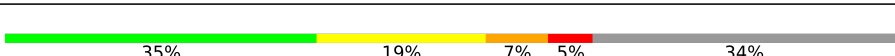
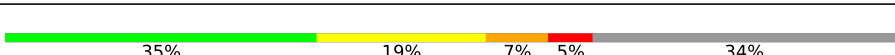
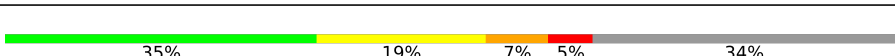
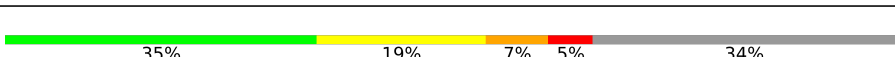
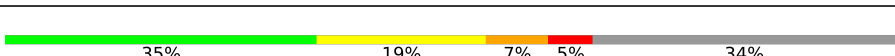
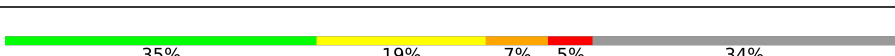
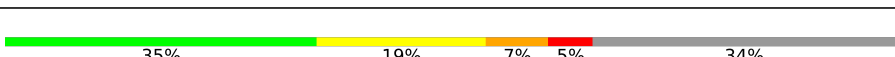
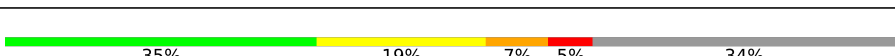
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Mol	Chain	Length	Quality of chain
3	1-D	2012	
3	1-J	2012	
3	1-P	2012	
3	1-V	2012	
3	2-D	2012	
3	2-J	2012	
3	2-P	2012	
3	2-V	2012	
3	3-D	2012	
3	3-J	2012	
3	3-P	2012	
3	3-V	2012	
3	4-D	2012	
3	4-J	2012	
3	4-P	2012	
3	4-V	2012	
3	5-D	2012	
3	5-J	2012	
3	5-P	2012	
3	5-V	2012	
3	6-D	2012	
3	6-J	2012	
3	6-P	2012	
3	6-V	2012	
3	7-D	2012	

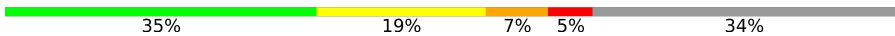
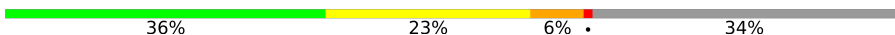
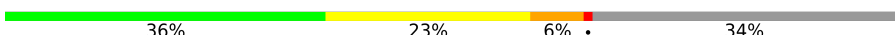
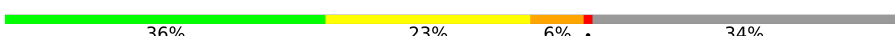
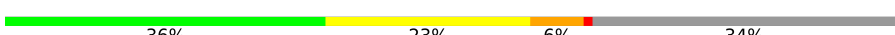
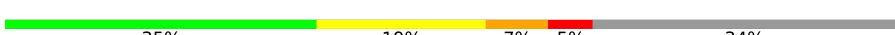
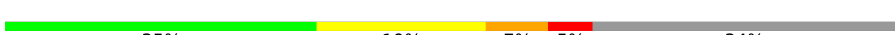
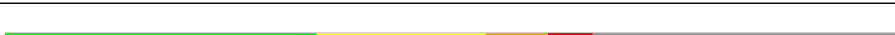
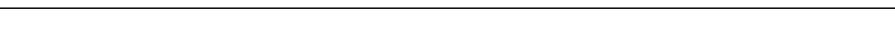
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Mol	Chain	Length	Quality of chain
3	7-J	2012	
3	7-P	2012	
3	7-V	2012	
3	8-D	2012	
3	8-J	2012	
3	8-P	2012	
3	8-V	2012	
4	1-F	507	
4	1-L	507	
4	1-R	507	
4	1-X	507	
4	2-F	507	
4	2-L	507	
4	2-R	507	
4	2-X	507	
4	3-F	507	
4	3-L	507	
4	3-R	507	
4	3-X	507	
4	4-F	507	
4	4-L	507	
4	4-R	507	
4	4-X	507	
4	5-F	507	
4	5-L	507	

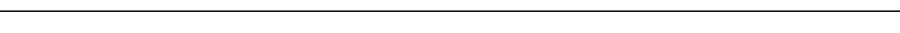
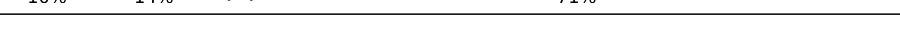
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Mol	Chain	Length	Quality of chain
4	5-R	507	
4	5-X	507	
4	6-F	507	
4	6-L	507	
4	6-R	507	
4	6-X	507	
4	7-F	507	
4	7-L	507	
4	7-R	507	
4	7-X	507	
4	8-F	507	
4	8-L	507	
4	8-R	507	
4	8-X	507	
5	1-G	599	
5	1-M	599	
5	1-S	599	
5	1-Y	599	
5	2-G	599	
5	2-M	599	
5	2-S	599	
5	2-Y	599	
5	3-G	599	
5	3-M	599	
5	3-S	599	

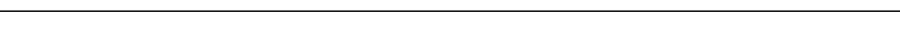
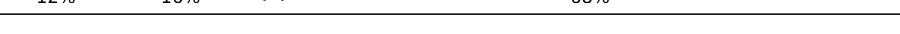
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Mol	Chain	Length	Quality of chain
5	3-Y	599	 71%
5	4-G	599	 71%
5	4-M	599	 71%
5	4-S	599	 71%
5	4-Y	599	 71%
5	5-G	599	 71%
5	5-M	599	 71%
5	5-S	599	 71%
5	5-Y	599	 71%
5	6-G	599	 71%
5	6-M	599	 71%
5	6-S	599	 71%
5	6-Y	599	 71%
5	7-G	599	 71%
5	7-M	599	 71%
5	7-S	599	 71%
5	7-Y	599	 71%
5	8-G	599	 71%
5	8-M	599	 71%
5	8-S	599	 71%
5	8-Y	599	 71%
6	1-H	522	 68%
6	1-N	522	 68%
6	1-T	522	 68%
6	1-Z	522	 68%

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Mol	Chain	Length	Quality of chain
6	2-H	522	 12% 16% . . 68%
6	2-N	522	 12% 17% . . 68%
6	2-T	522	 12% 16% . . 68%
6	2-Z	522	 12% 16% . . 68%
6	3-H	522	 12% 16% . . 68%
6	3-N	522	 11% 17% . . 68%
6	3-T	522	 12% 16% . . 68%
6	3-Z	522	 12% 16% . . 68%
6	4-H	522	 12% 16% . . 68%
6	4-N	522	 12% 17% . . 68%
6	4-T	522	 12% 16% . . 68%
6	4-Z	522	 12% 16% . . 68%
6	5-H	522	 12% 16% . . 68%
6	5-N	522	 12% 17% . . 68%
6	5-T	522	 12% 16% . . 68%
6	5-Z	522	 12% 16% . . 68%
6	6-H	522	 12% 19% . 68%
6	6-N	522	 12% 19% . 68%
6	6-T	522	 12% 18% . 68%
6	6-Z	522	 12% 18% . 68%
6	7-H	522	 12% 16% . . 68%
6	7-N	522	 12% 17% . . 68%
6	7-T	522	 12% 16% . . 68%
6	7-Z	522	 12% 16% . . 68%
6	8-H	522	 12% 16% . . 68%

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Mol	Chain	Length	Quality of chain
6	8-N	522	 11% 17% . . 68%
6	8-T	522	 12% 16% . . 68%
6	8-Z	522	 12% 16% . . 68%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 594304 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called NUCLEAR PORE COMPLEX PROTEIN NUP155.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	1-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	2-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	3-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	4-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	5-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	6-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	7-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	8-A	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	1-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	2-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	3-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	4-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	5-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	6-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	7-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	8-B	650	Total	C	N	O	0	0
			3214	1914	650	650		
1	1-E	1083	Total	C	N	O	0	0
			5366	3200	1083	1083		

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Mol	Chain	Residues	Atoms				AltConf	Trace
1	2-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	3-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	4-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	5-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	6-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	7-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	8-E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	1-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	2-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	3-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	4-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	5-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	6-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	7-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	8-K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	1-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	2-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	3-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	4-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	5-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	6-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
1	7-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	8-Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	1-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	2-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	3-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	4-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	5-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	6-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	7-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
1	8-W	1083	Total 5366	C 3200	N 1083	O 1083	0	0

- Molecule 2 is a protein called NUCLEAR PORE COMPLEX PROTEIN NUP93.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	1-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	2-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	3-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	4-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	5-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	6-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	7-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	8-C	636	Total 3152	C 1880	N 636	O 636	0	0
2	1-I	636	Total 3152	C 1880	N 636	O 636	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	2-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	3-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	4-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	5-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	6-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	7-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	8-I	636	Total 3152	C 1880	N 636	O 636	0	0
2	1-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	2-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	3-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	4-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	5-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	6-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	7-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	8-O	636	Total 3152	C 1880	N 636	O 636	0	0
2	1-U	636	Total 3152	C 1880	N 636	O 636	0	0
2	2-U	636	Total 3152	C 1880	N 636	O 636	0	0
2	3-U	636	Total 3152	C 1880	N 636	O 636	0	0
2	4-U	636	Total 3152	C 1880	N 636	O 636	0	0
2	5-U	636	Total 3152	C 1880	N 636	O 636	0	0
2	6-U	636	Total 3152	C 1880	N 636	O 636	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	7-U	636	Total	C	N	O	0	0
			3152	1880	636	636		
2	8-U	636	Total	C	N	O	0	0
			3152	1880	636	636		

- Molecule 3 is a protein called NUCLEAR PORE COMPLEX PROTEIN NUP205.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	1-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	2-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	3-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	4-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	5-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	6-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	7-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	8-D	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	1-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	2-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	3-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	4-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	5-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	6-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	7-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	8-J	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	1-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		

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Mol	Chain	Residues	Atoms				AltConf	Trace
3	2-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	3-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	4-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	5-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	6-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	7-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	8-P	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	1-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	2-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	3-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	4-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	5-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	6-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	7-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		
3	8-V	1028	Total	C	N	O	0	0
			5094	3038	1028	1028		

- Molecule 4 is a protein called NUCLEAR PORE COMPLEX PROTEIN NUP54.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	1-F	335	Total	C	N	O	0	0
			1658	988	335	335		
4	2-F	335	Total	C	N	O	0	0
			1658	988	335	335		
4	3-F	335	Total	C	N	O	0	0
			1658	988	335	335		
4	4-F	335	Total	C	N	O	0	0
			1658	988	335	335		

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Mol	Chain	Residues	Atoms				AltConf	Trace
4	5-F	335	Total 1658	C 988	N 335	O 335	0	0
4	6-F	335	Total 1658	C 988	N 335	O 335	0	0
4	7-F	335	Total 1658	C 988	N 335	O 335	0	0
4	8-F	335	Total 1658	C 988	N 335	O 335	0	0
4	1-L	335	Total 1658	C 988	N 335	O 335	0	0
4	2-L	335	Total 1658	C 988	N 335	O 335	0	0
4	3-L	335	Total 1658	C 988	N 335	O 335	0	0
4	4-L	335	Total 1658	C 988	N 335	O 335	0	0
4	5-L	335	Total 1658	C 988	N 335	O 335	0	0
4	6-L	335	Total 1658	C 988	N 335	O 335	0	0
4	7-L	335	Total 1658	C 988	N 335	O 335	0	0
4	8-L	335	Total 1658	C 988	N 335	O 335	0	0
4	1-R	335	Total 1658	C 988	N 335	O 335	0	0
4	2-R	335	Total 1658	C 988	N 335	O 335	0	0
4	3-R	335	Total 1658	C 988	N 335	O 335	0	0
4	4-R	335	Total 1658	C 988	N 335	O 335	0	0
4	5-R	335	Total 1658	C 988	N 335	O 335	0	0
4	6-R	335	Total 1658	C 988	N 335	O 335	0	0
4	7-R	335	Total 1658	C 988	N 335	O 335	0	0
4	8-R	335	Total 1658	C 988	N 335	O 335	0	0
4	1-X	335	Total 1658	C 988	N 335	O 335	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
4	2-X	335	Total	C	N	O	0	0
			1658	988	335	335		
4	3-X	335	Total	C	N	O	0	0
			1658	988	335	335		
4	4-X	335	Total	C	N	O	0	0
			1658	988	335	335		
4	5-X	335	Total	C	N	O	0	0
			1658	988	335	335		
4	6-X	335	Total	C	N	O	0	0
			1658	988	335	335		
4	7-X	335	Total	C	N	O	0	0
			1658	988	335	335		
4	8-X	335	Total	C	N	O	0	0
			1658	988	335	335		

- Molecule 5 is a protein called NUCLEAR PORE COMPLEX PROTEIN NUP58.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	1-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	2-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	3-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	4-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	5-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	6-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	7-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	8-G	171	Total	C	N	O	0	0
			853	511	171	171		
5	1-M	171	Total	C	N	O	0	0
			853	511	171	171		
5	2-M	171	Total	C	N	O	0	0
			853	511	171	171		
5	3-M	171	Total	C	N	O	0	0
			853	511	171	171		
5	4-M	171	Total	C	N	O	0	0
			853	511	171	171		

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Mol	Chain	Residues	Atoms				AltConf	Trace
5	5-M	171	Total 853	C 511	N 171	O 171	0	0
5	6-M	171	Total 853	C 511	N 171	O 171	0	0
5	7-M	171	Total 853	C 511	N 171	O 171	0	0
5	8-M	171	Total 853	C 511	N 171	O 171	0	0
5	1-S	171	Total 853	C 511	N 171	O 171	0	0
5	2-S	171	Total 853	C 511	N 171	O 171	0	0
5	3-S	171	Total 853	C 511	N 171	O 171	0	0
5	4-S	171	Total 853	C 511	N 171	O 171	0	0
5	5-S	171	Total 853	C 511	N 171	O 171	0	0
5	6-S	171	Total 853	C 511	N 171	O 171	0	0
5	7-S	171	Total 853	C 511	N 171	O 171	0	0
5	8-S	171	Total 853	C 511	N 171	O 171	0	0
5	1-Y	171	Total 853	C 511	N 171	O 171	0	0
5	2-Y	171	Total 853	C 511	N 171	O 171	0	0
5	3-Y	171	Total 853	C 511	N 171	O 171	0	0
5	4-Y	171	Total 853	C 511	N 171	O 171	0	0
5	5-Y	171	Total 853	C 511	N 171	O 171	0	0
5	6-Y	171	Total 853	C 511	N 171	O 171	0	0
5	7-Y	171	Total 853	C 511	N 171	O 171	0	0
5	8-Y	171	Total 853	C 511	N 171	O 171	0	0

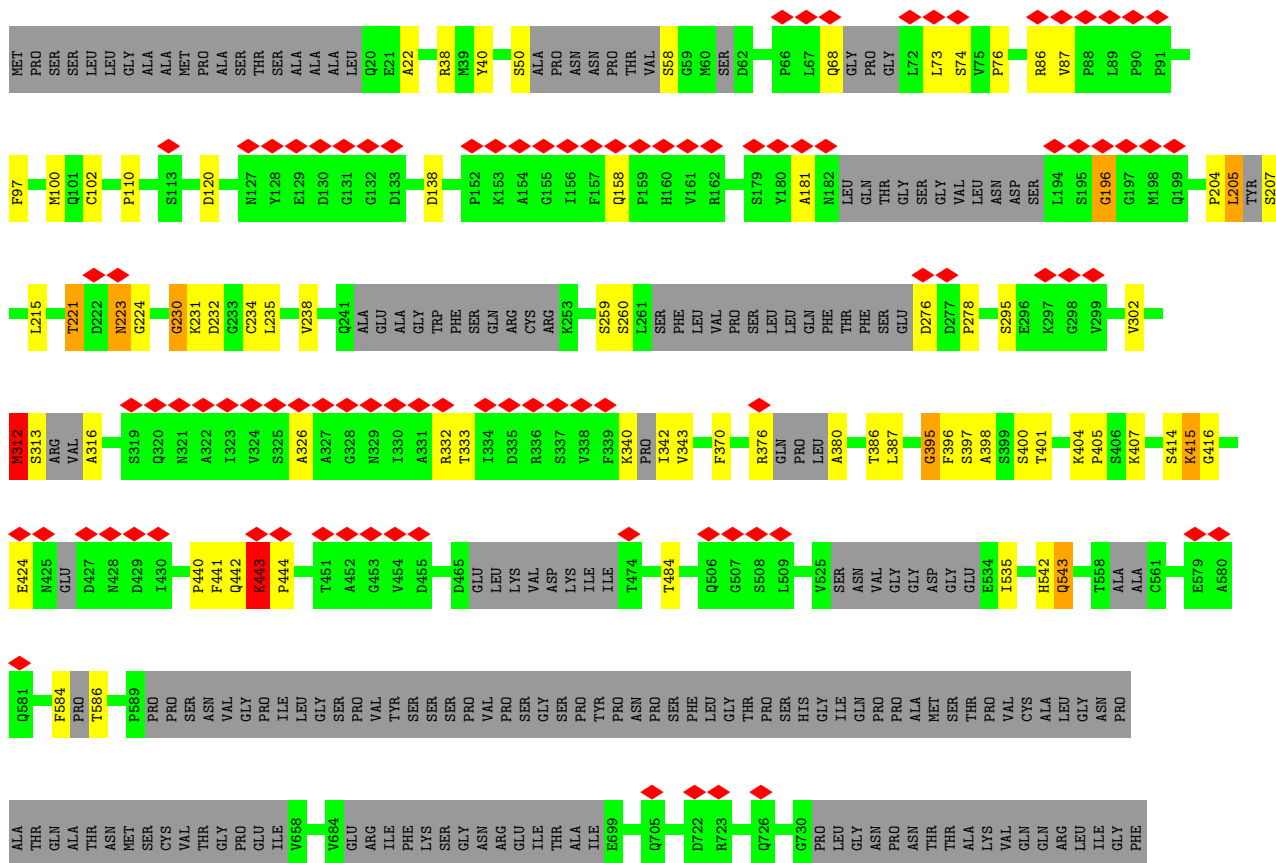
- Molecule 6 is a protein called Nuclear pore glycoprotein p62.

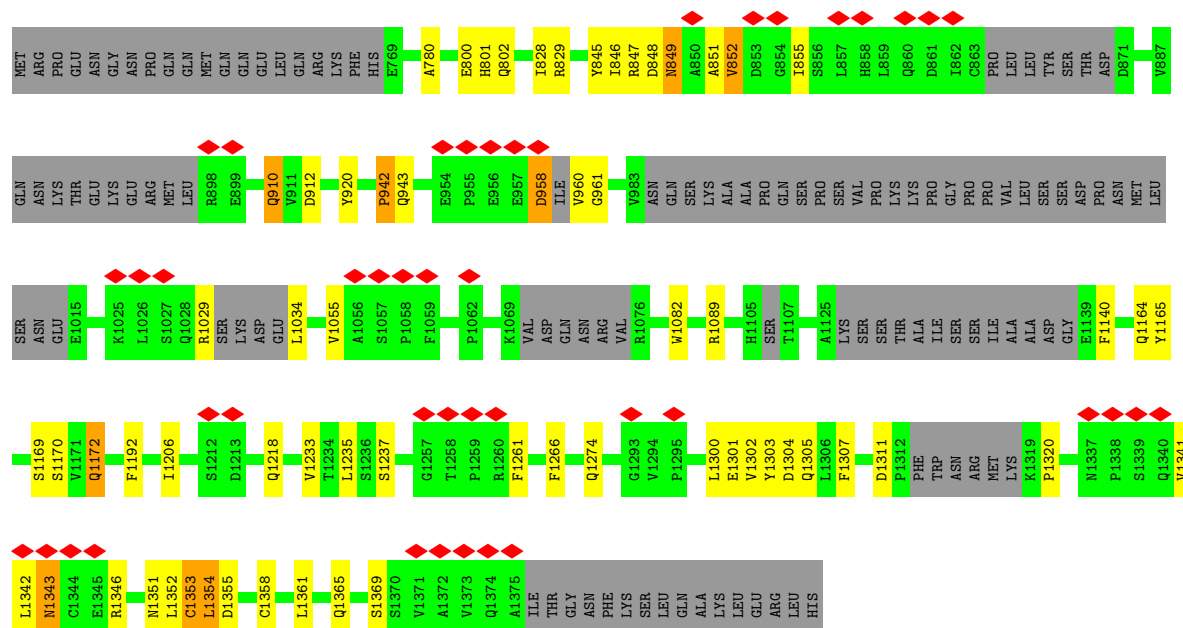
Mol	Chain	Residues	Atoms				AltConf	Trace
6	1-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	2-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	3-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	4-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	5-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	6-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	7-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	8-H	169	Total	C	N	O	0	0
			842	504	169	169		
6	1-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	2-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	3-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	4-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	5-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	6-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	7-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	8-N	169	Total	C	N	O	0	0
			842	504	169	169		
6	1-T	169	Total	C	N	O	0	0
			842	504	169	169		
6	2-T	169	Total	C	N	O	0	0
			842	504	169	169		
6	3-T	169	Total	C	N	O	0	0
			842	504	169	169		
6	4-T	169	Total	C	N	O	0	0
			842	504	169	169		
6	5-T	169	Total	C	N	O	0	0
			842	504	169	169		
6	6-T	169	Total	C	N	O	0	0
			842	504	169	169		

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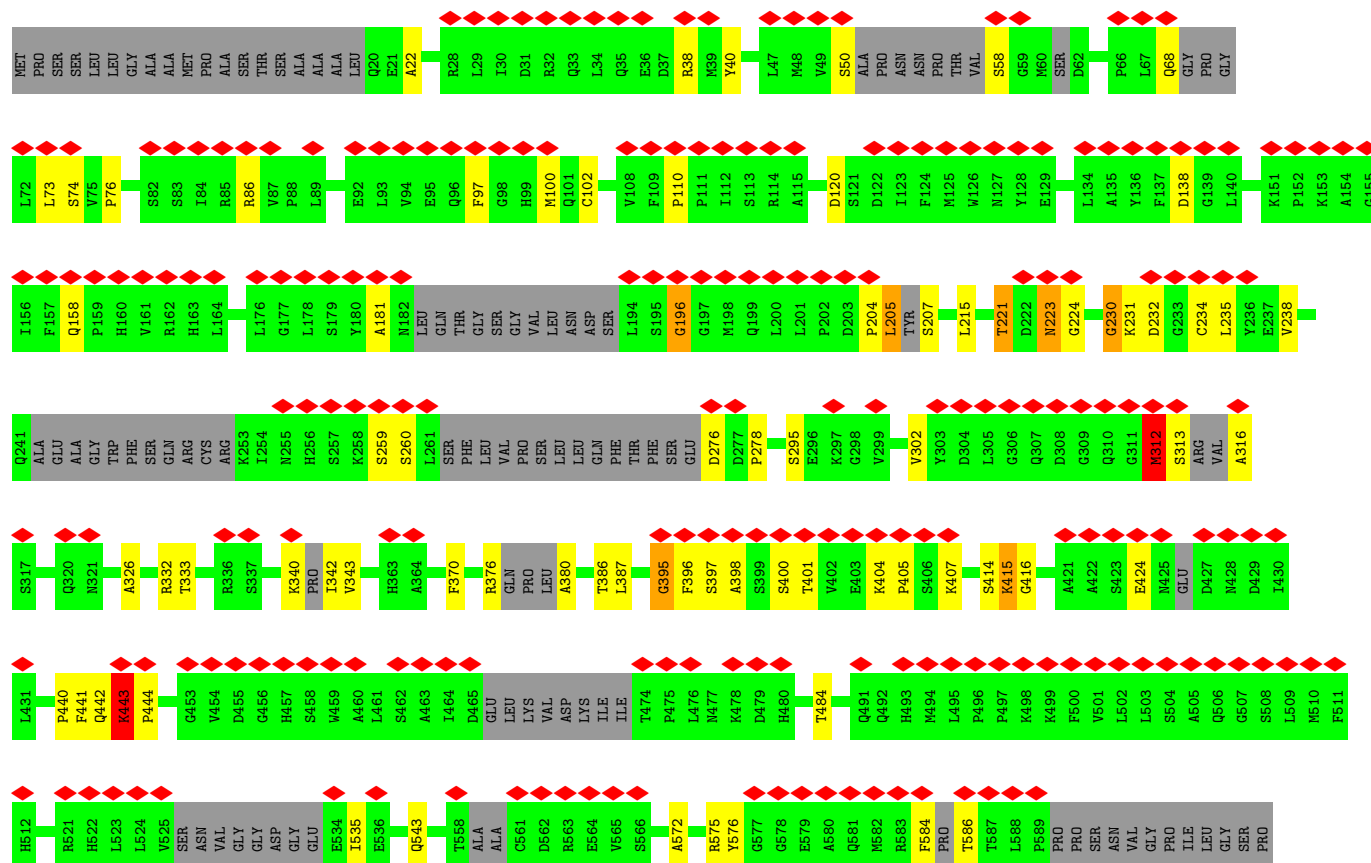
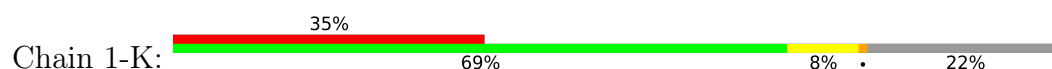
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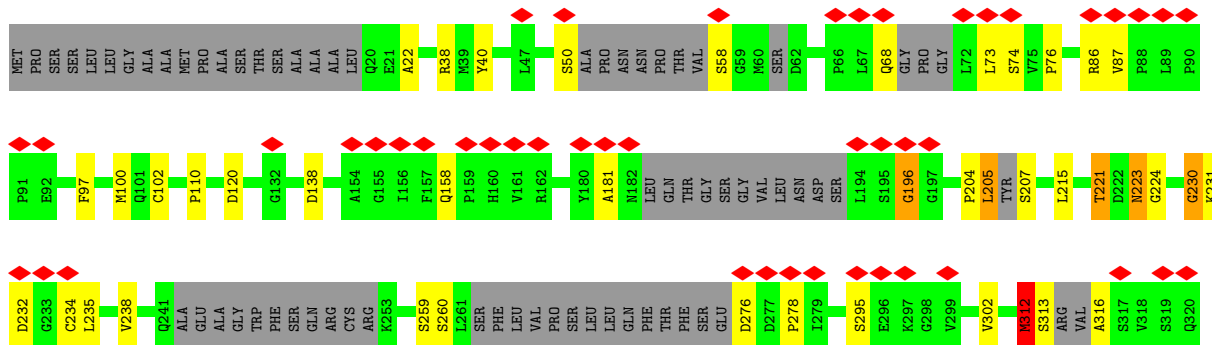
Mol	Chain	Residues	Atoms				AltConf	Trace
6	7-T	169	Total 842	C 504	N 169	O 169	0	0
6	8-T	169	Total 842	C 504	N 169	O 169	0	0
6	1-Z	169	Total 842	C 504	N 169	O 169	0	0
6	2-Z	169	Total 842	C 504	N 169	O 169	0	0
6	3-Z	169	Total 842	C 504	N 169	O 169	0	0
6	4-Z	169	Total 842	C 504	N 169	O 169	0	0
6	5-Z	169	Total 842	C 504	N 169	O 169	0	0
6	6-Z	169	Total 842	C 504	N 169	O 169	0	0
6	7-Z	169	Total 842	C 504	N 169	O 169	0	0
6	8-Z	169	Total 842	C 504	N 169	O 169	0	0

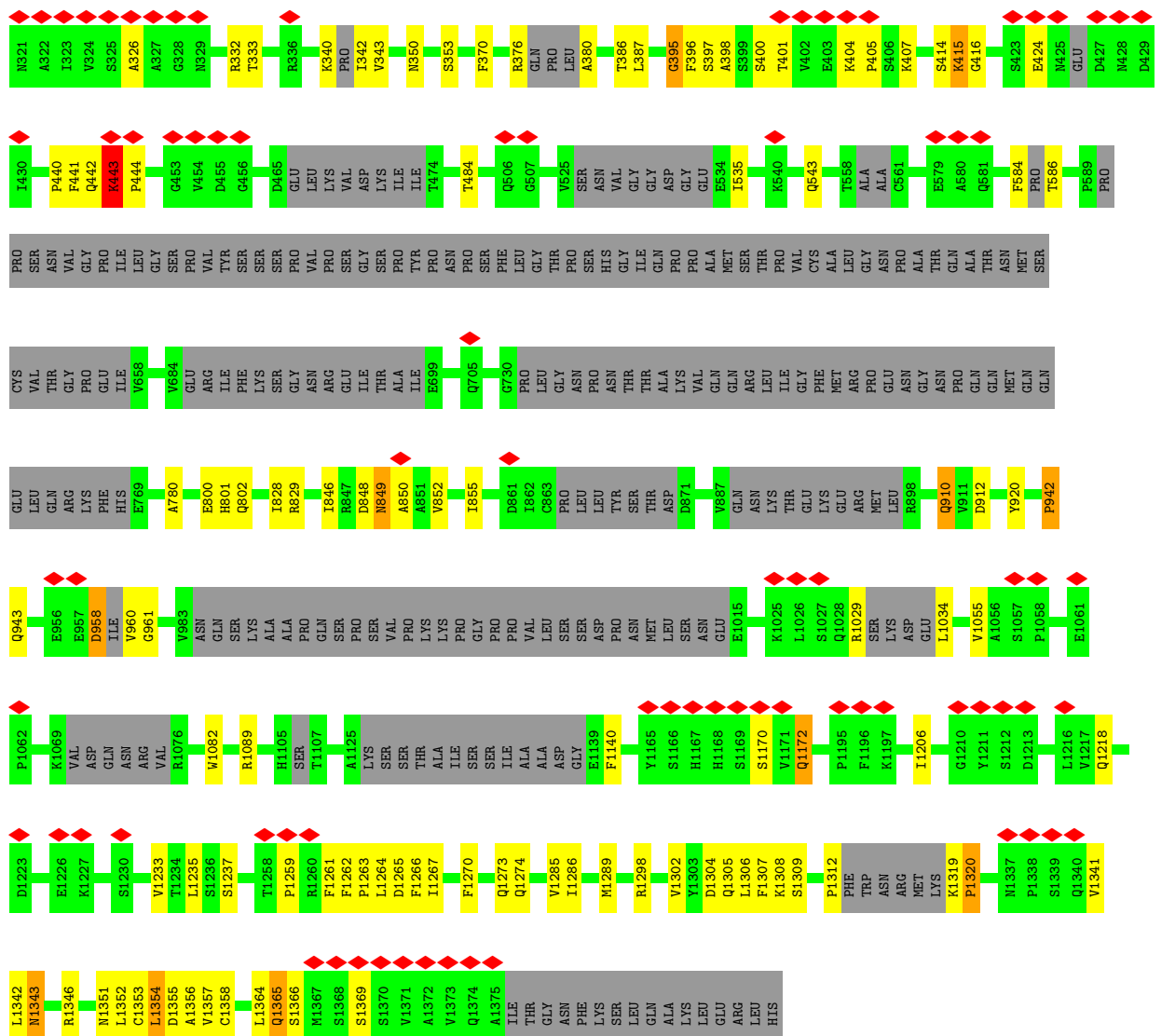




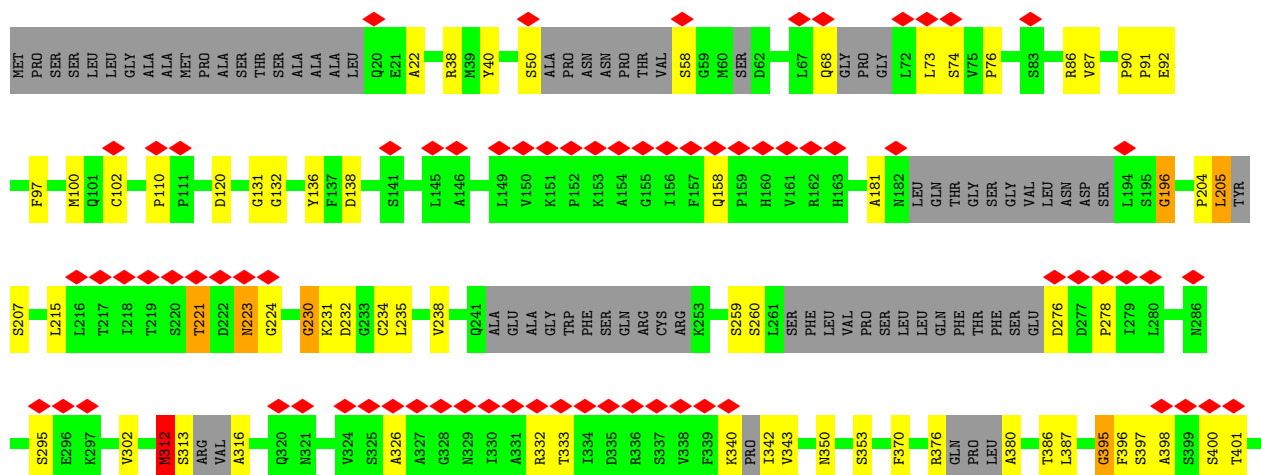
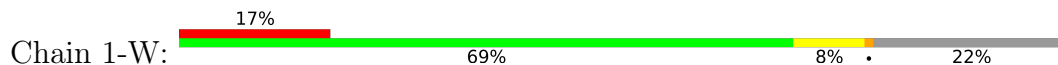
• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

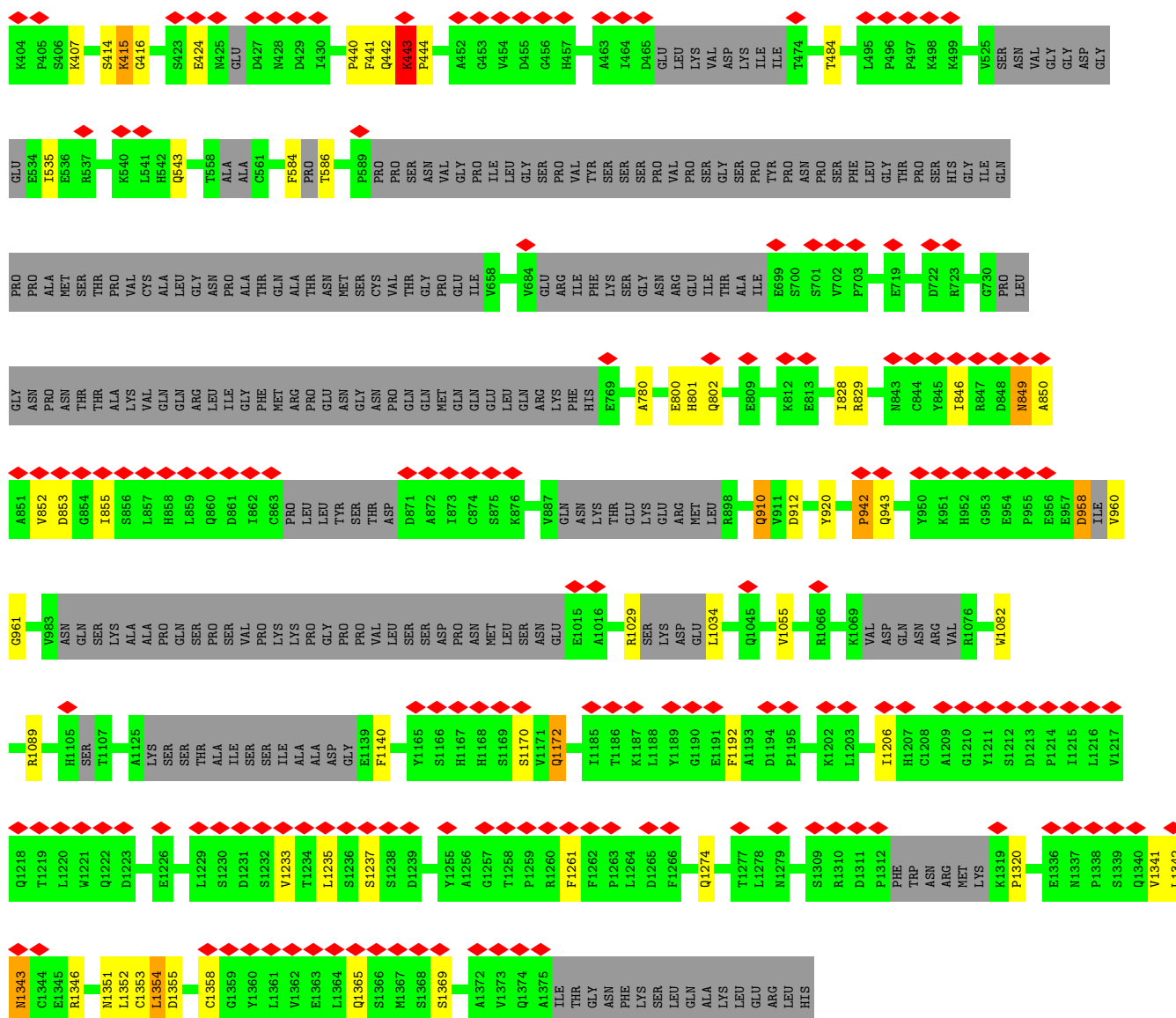






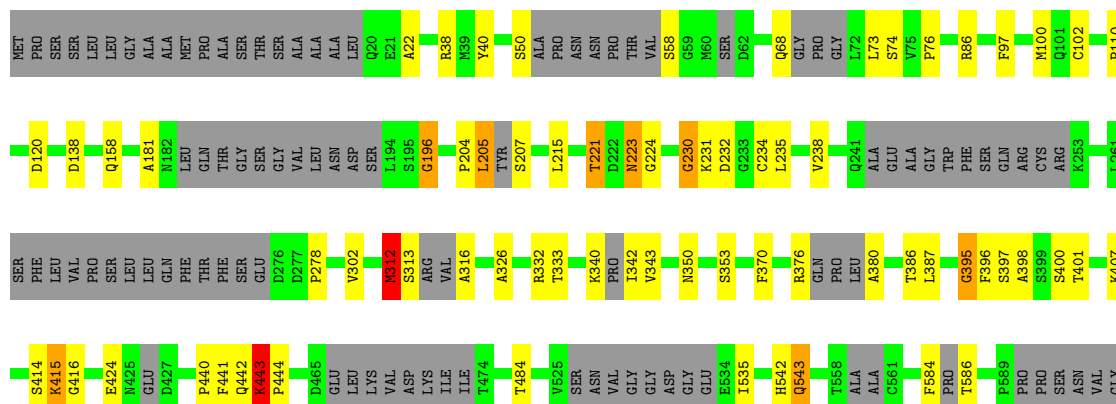
• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

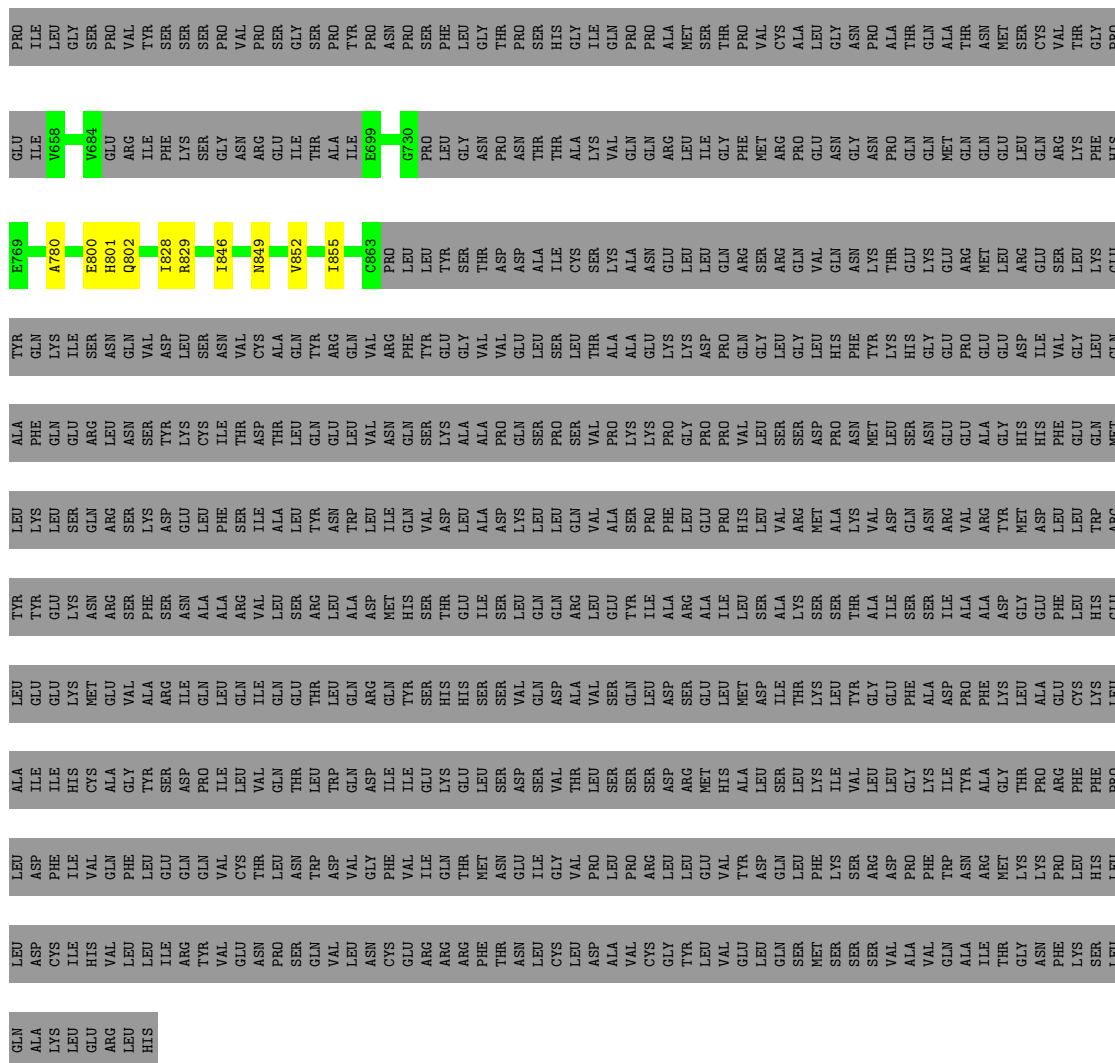




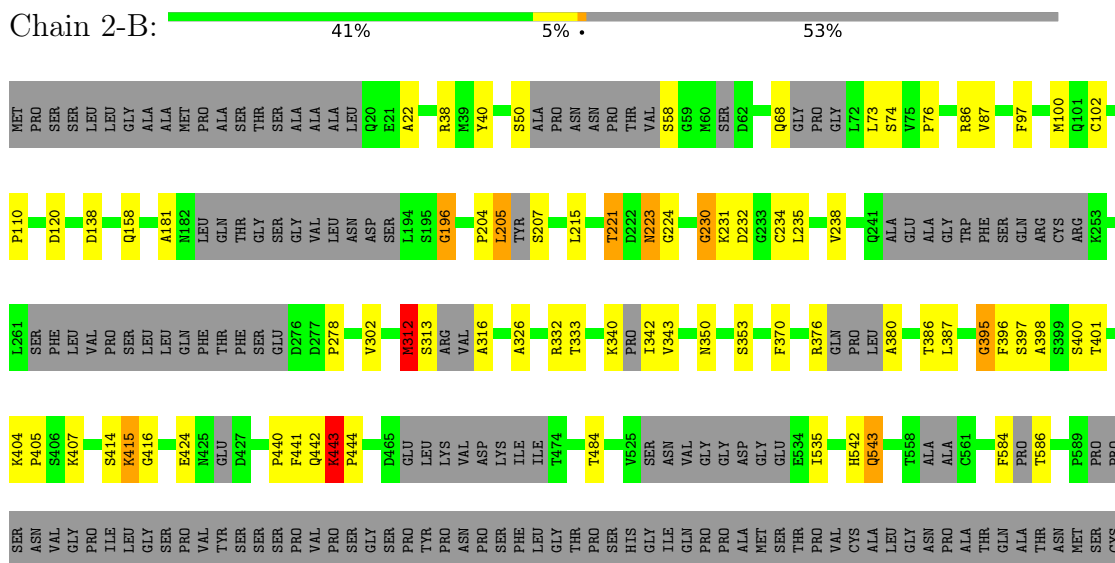
• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

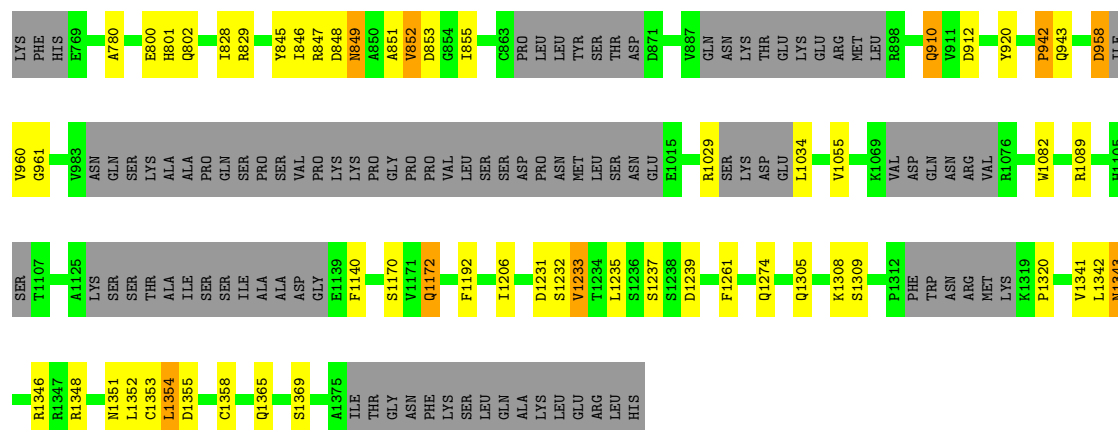
Chain 2-A: 41% 5% 53%





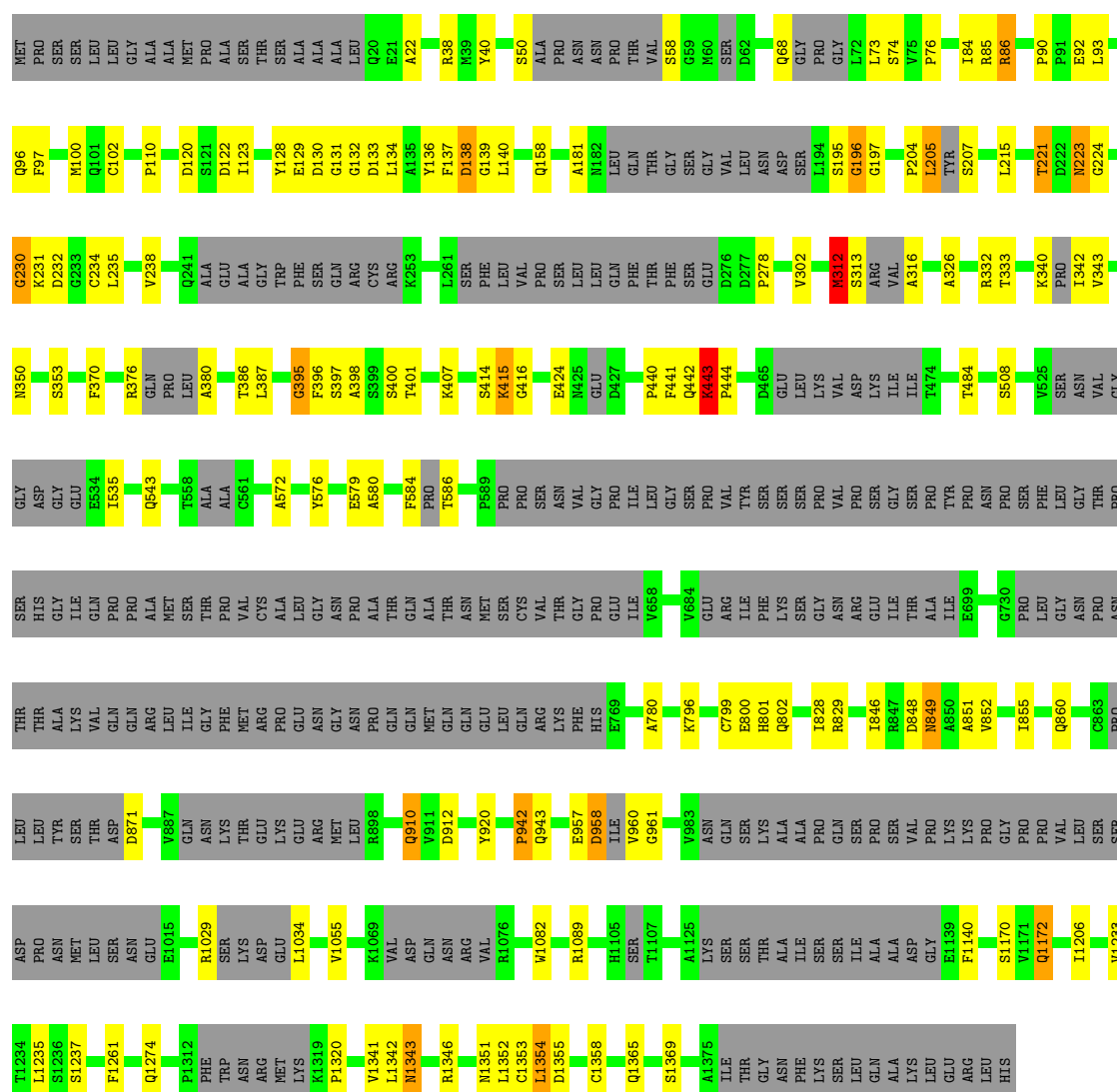
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155



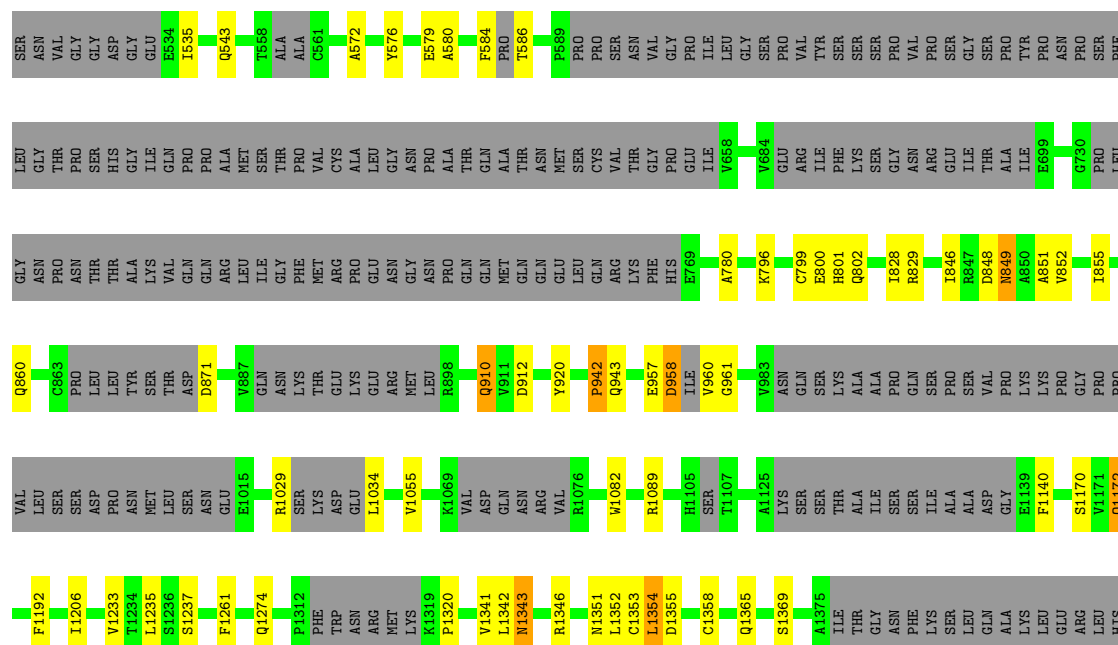


• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 2-K: 67% 9% 22%

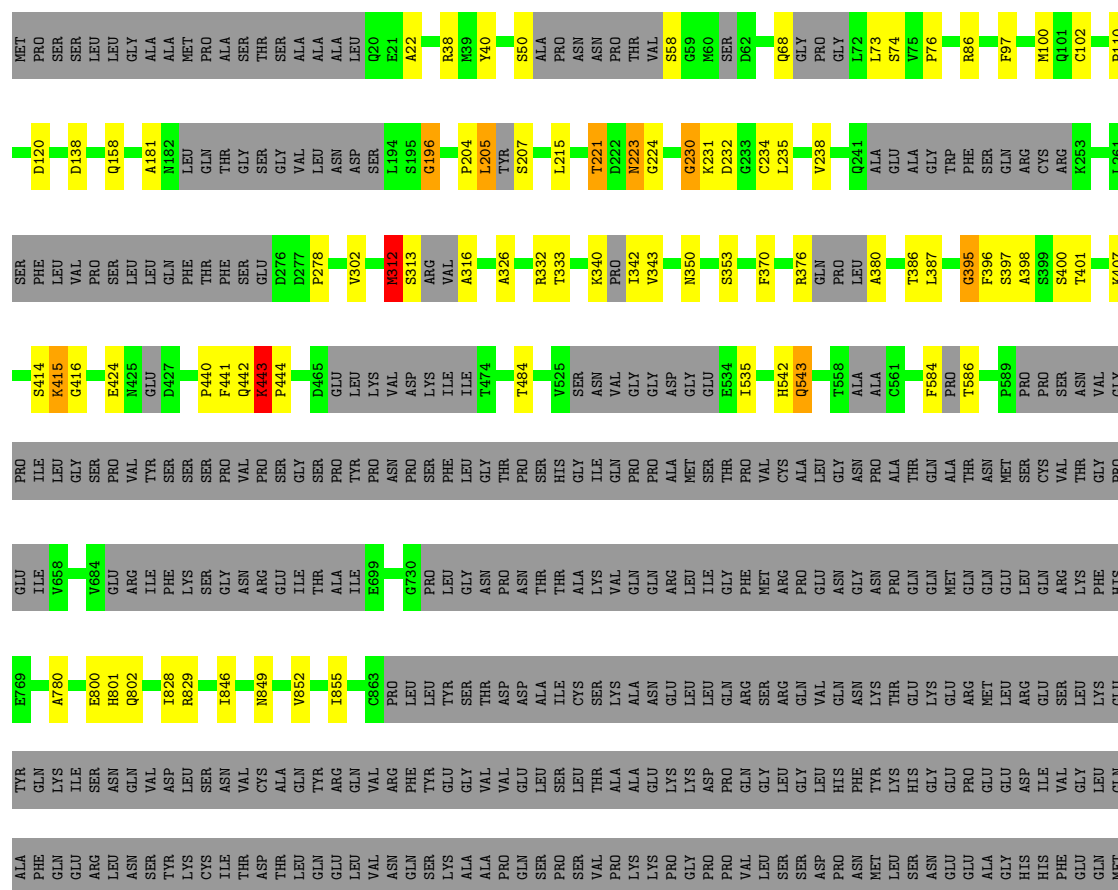


• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

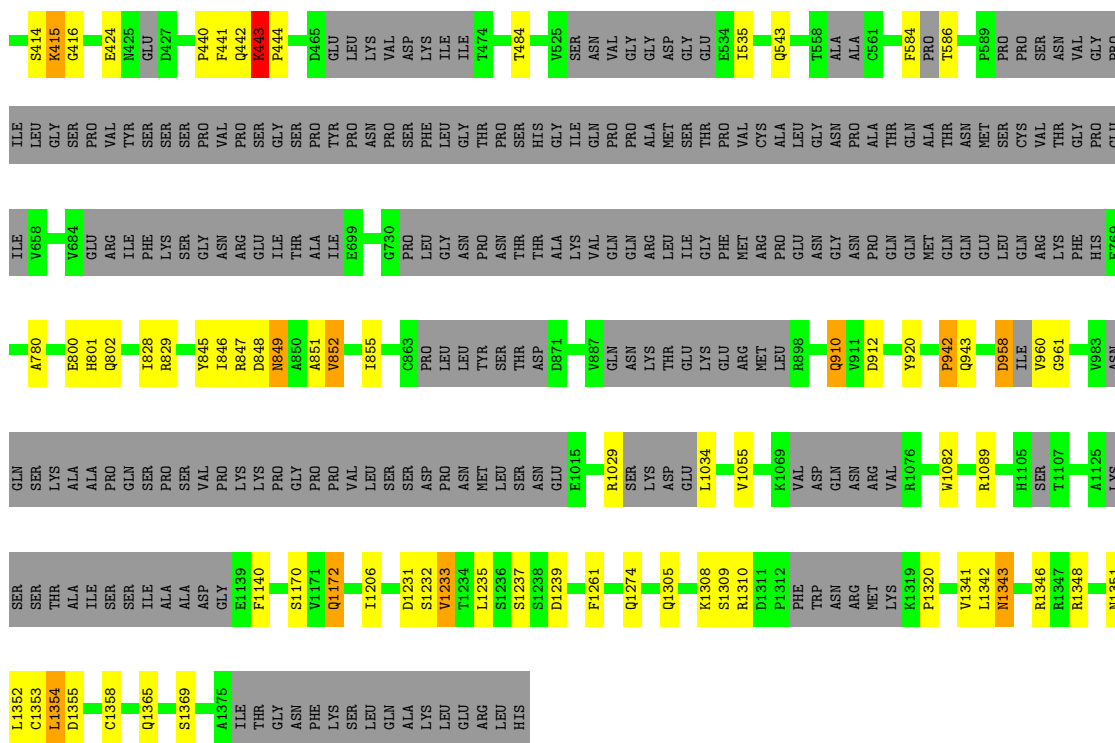


• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 3-A: 41% 5% 53%

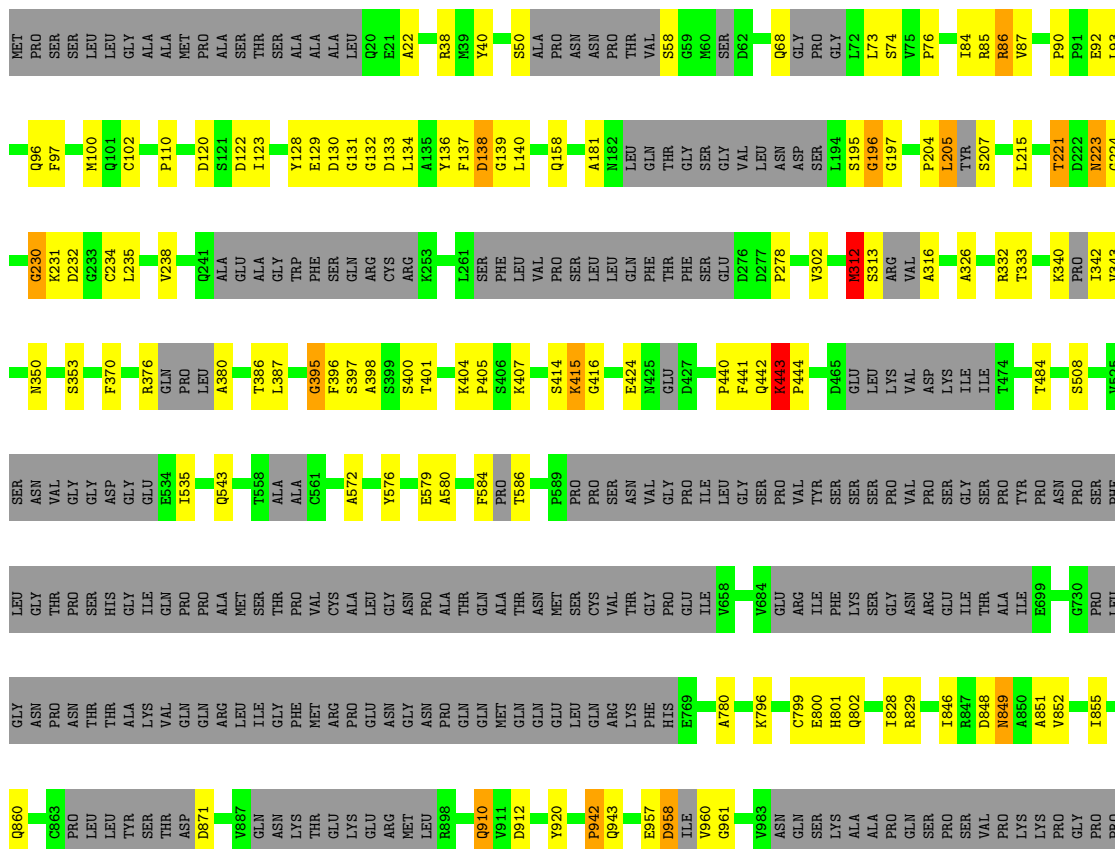




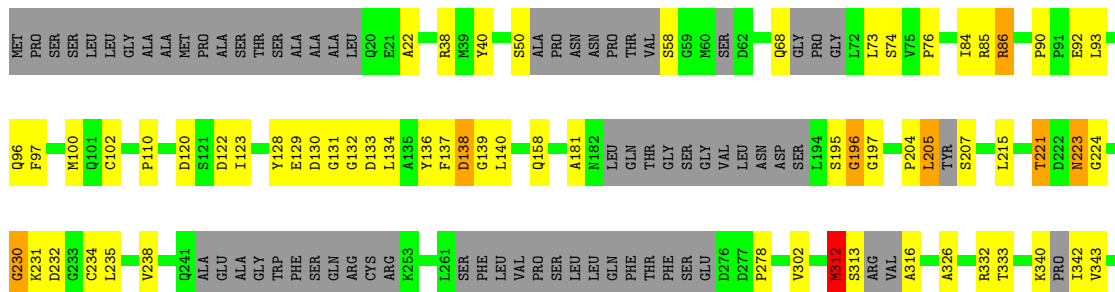
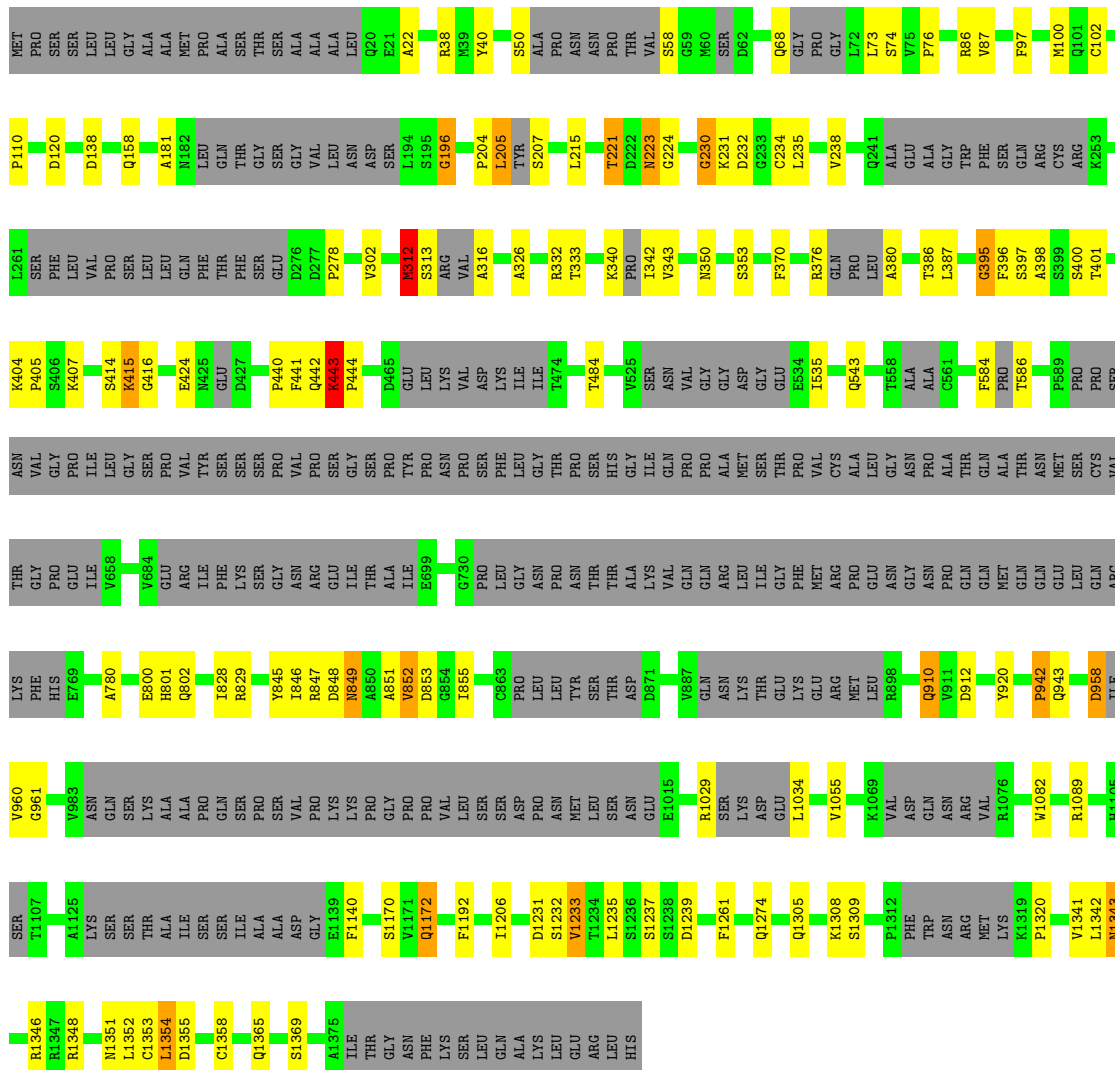


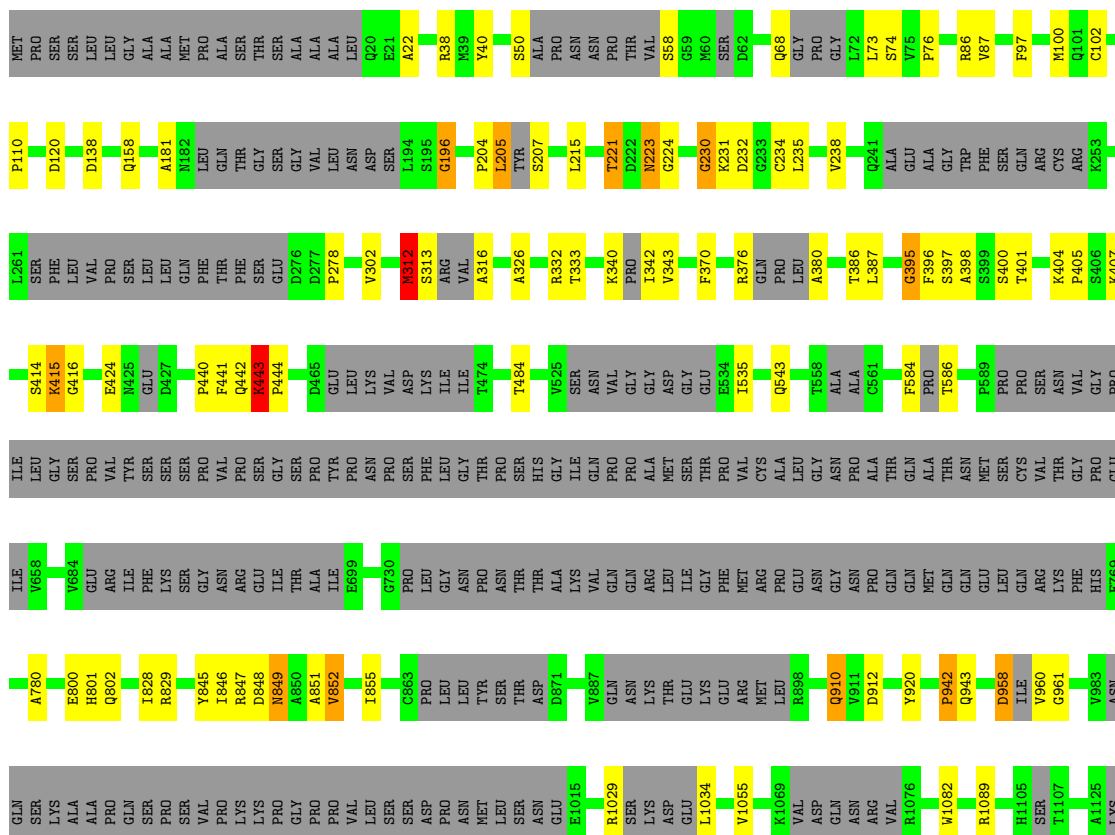
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 3-W:





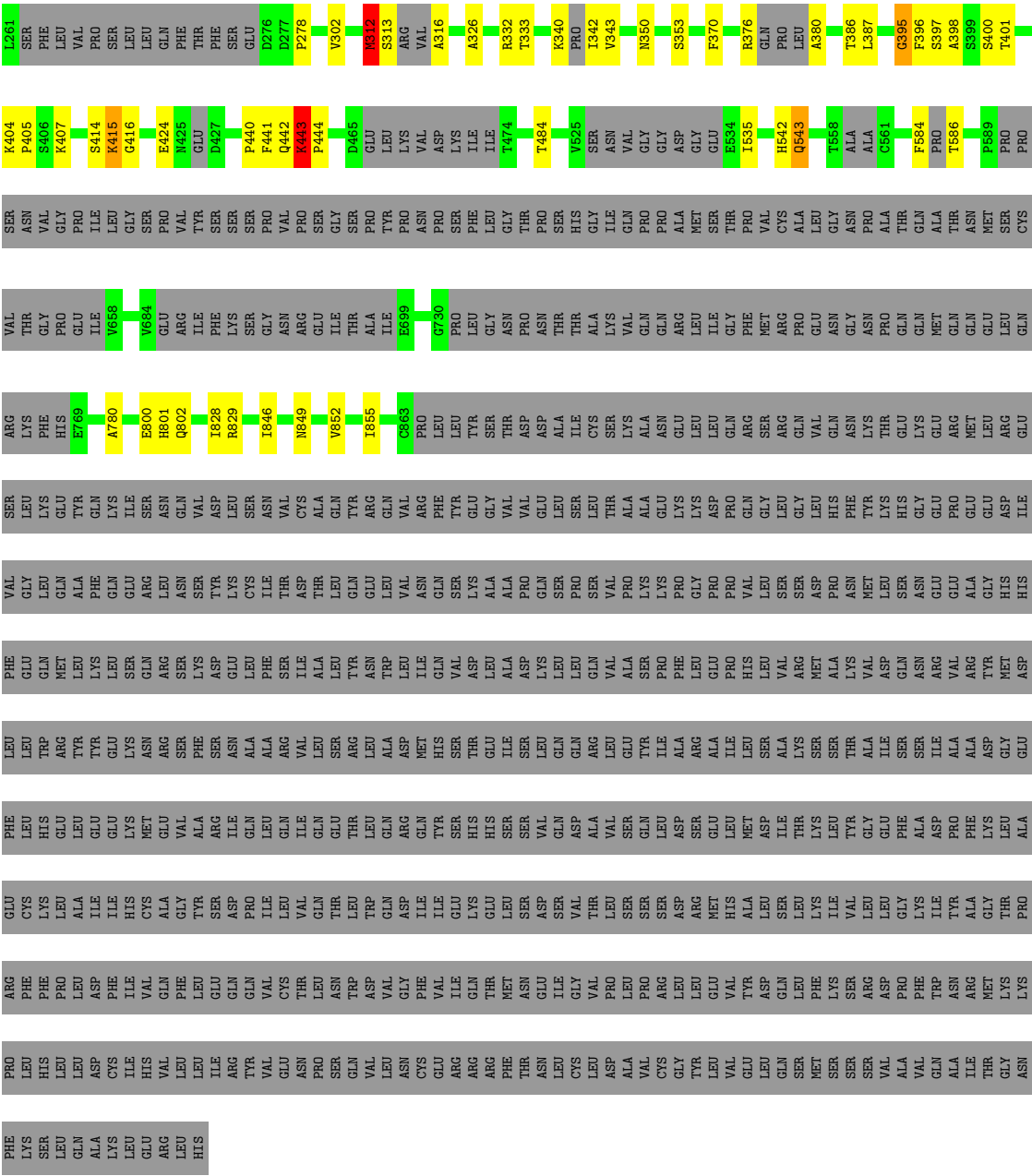




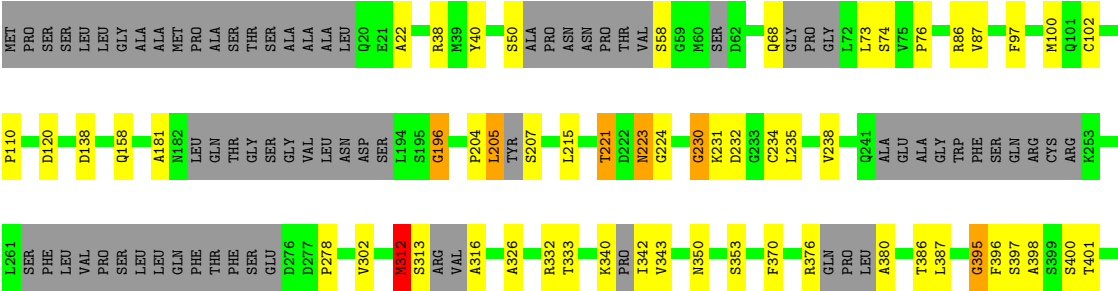
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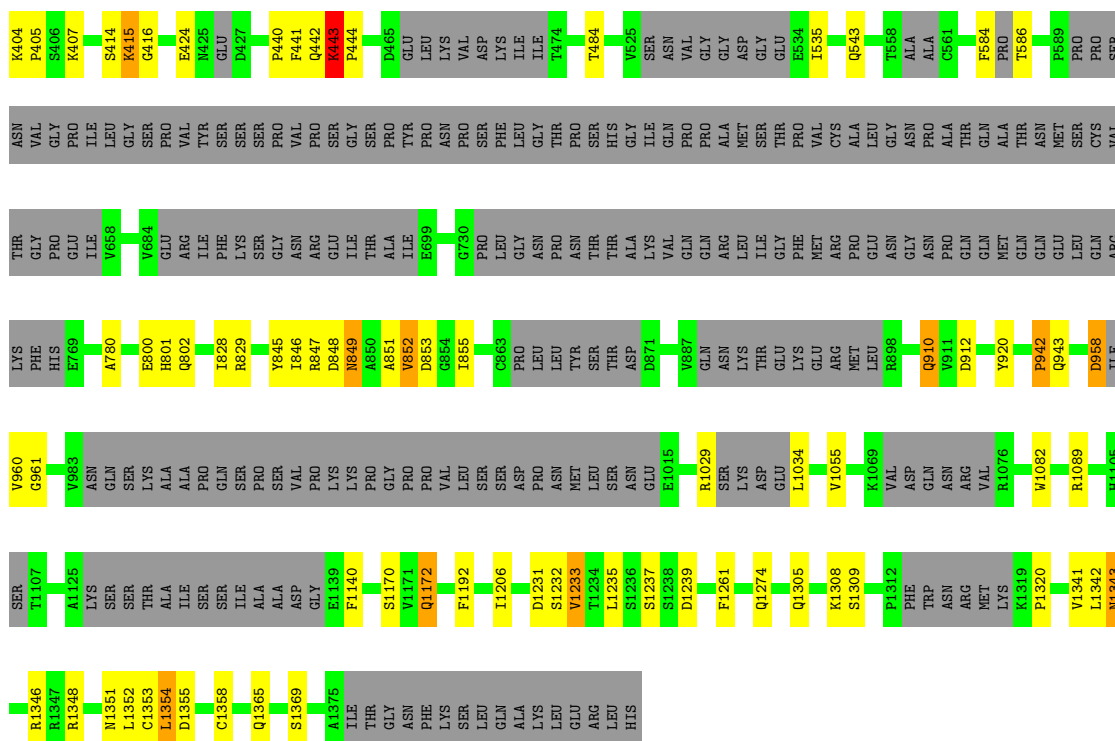
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

MET	PRO	SER	SER	LEU	LEU	GLY	ALA	ALA	MET	PRO	ALA	SER	THR	SER	SER	ALA	ALA	ALA	LEU	Q20	E21	A22	R38	R39	Y40	S50	ALA	PRO	ASN	ASN	PRO	THR	THR	VAL	S58	G59	M60	SER	D62	Q68	GLY	PRO	PRO	GLY	L72	L73	S74	V75	P76	R86	F97	M100	Q101	C102	T110



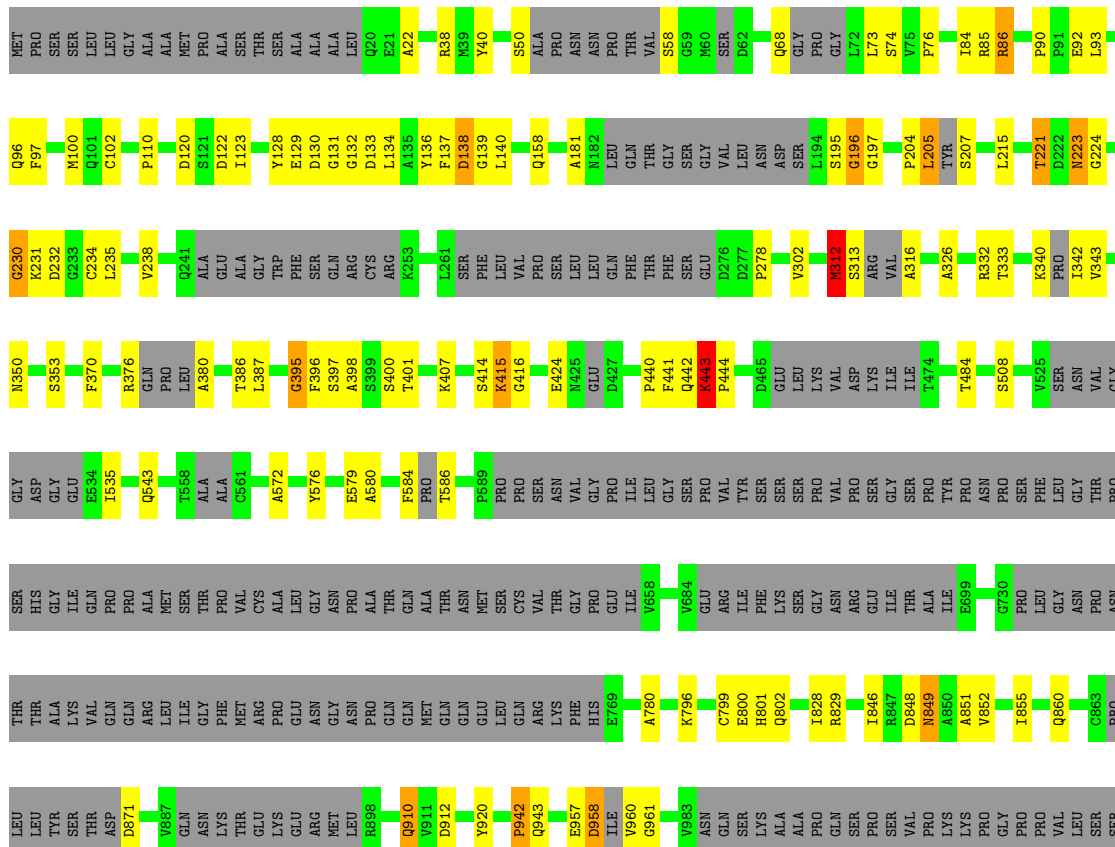
● Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

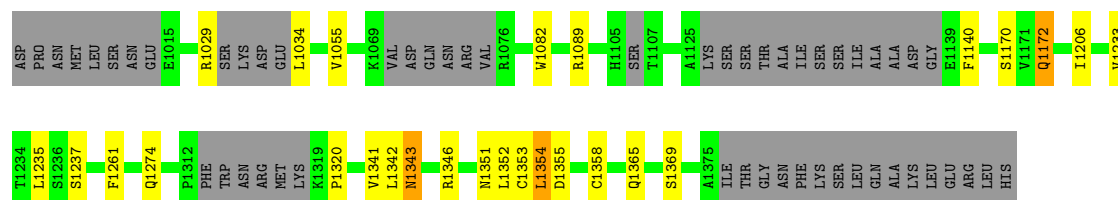




- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

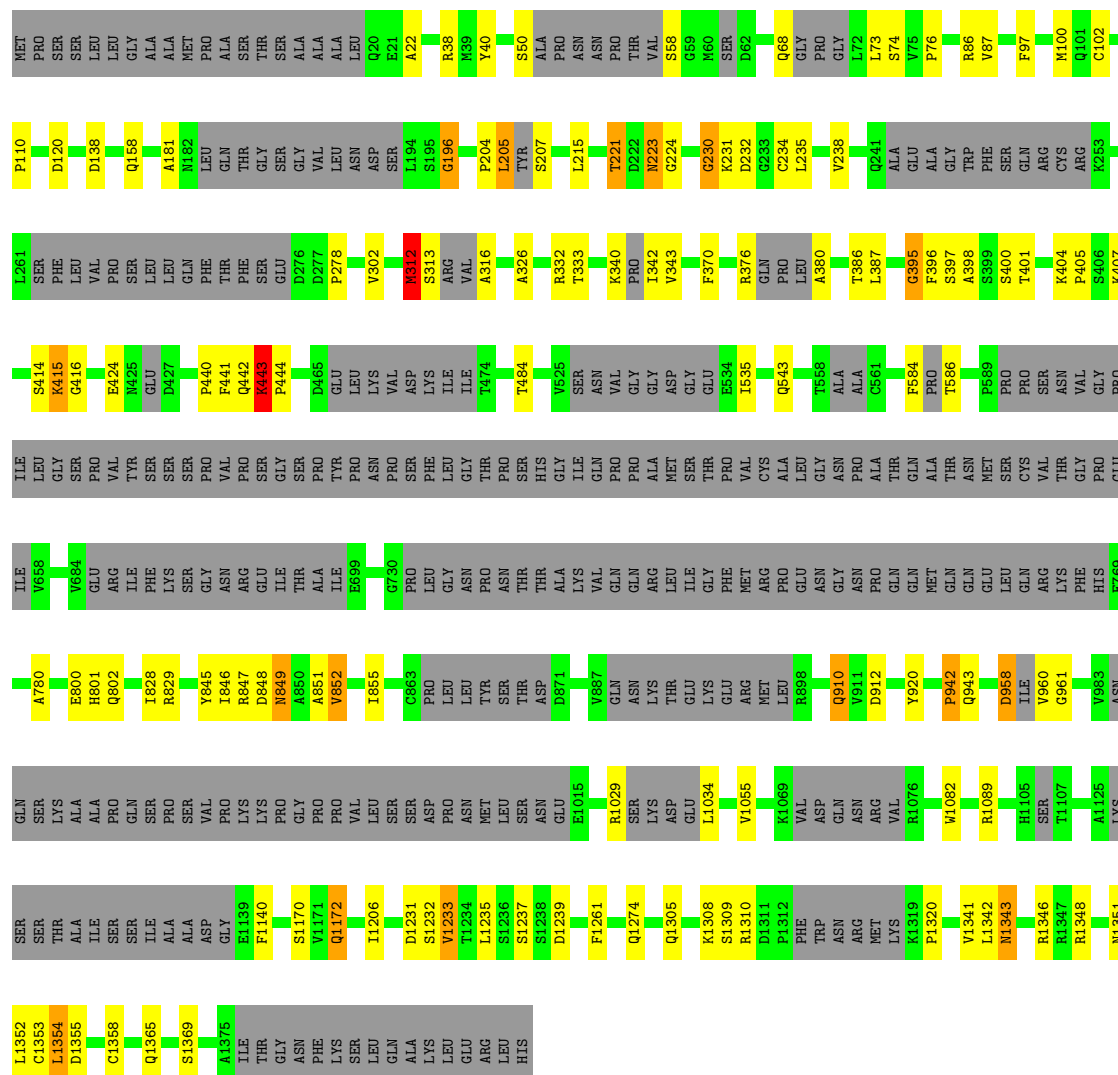
Chain 5-K:





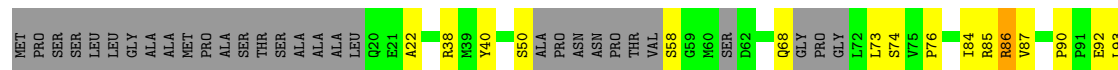
• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 5-Q: 69% 8% 22%

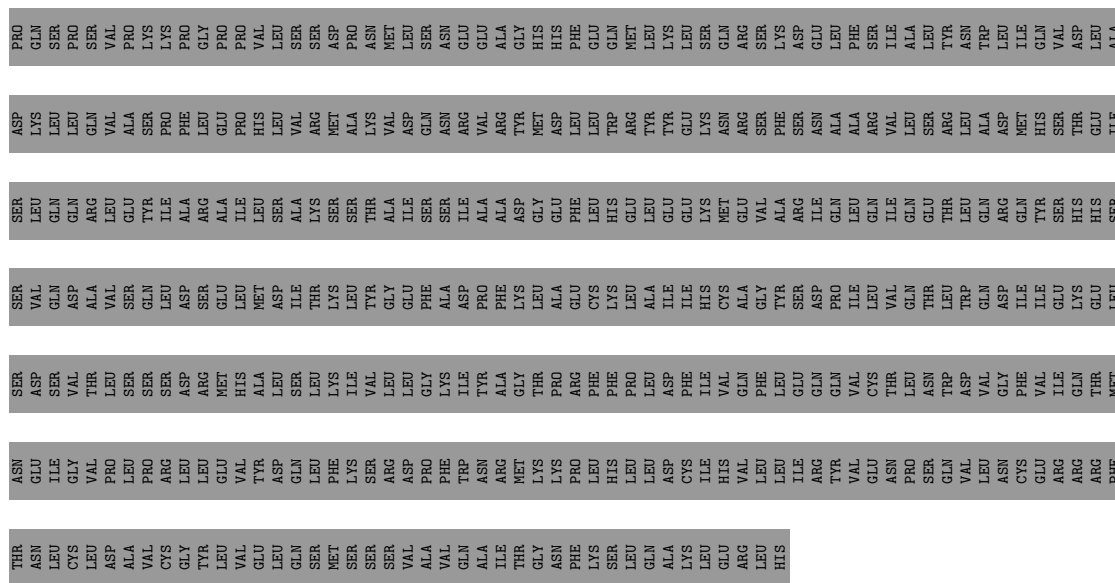


• Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

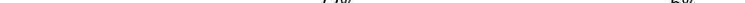
Chain 5-W: 67% 10% 22%

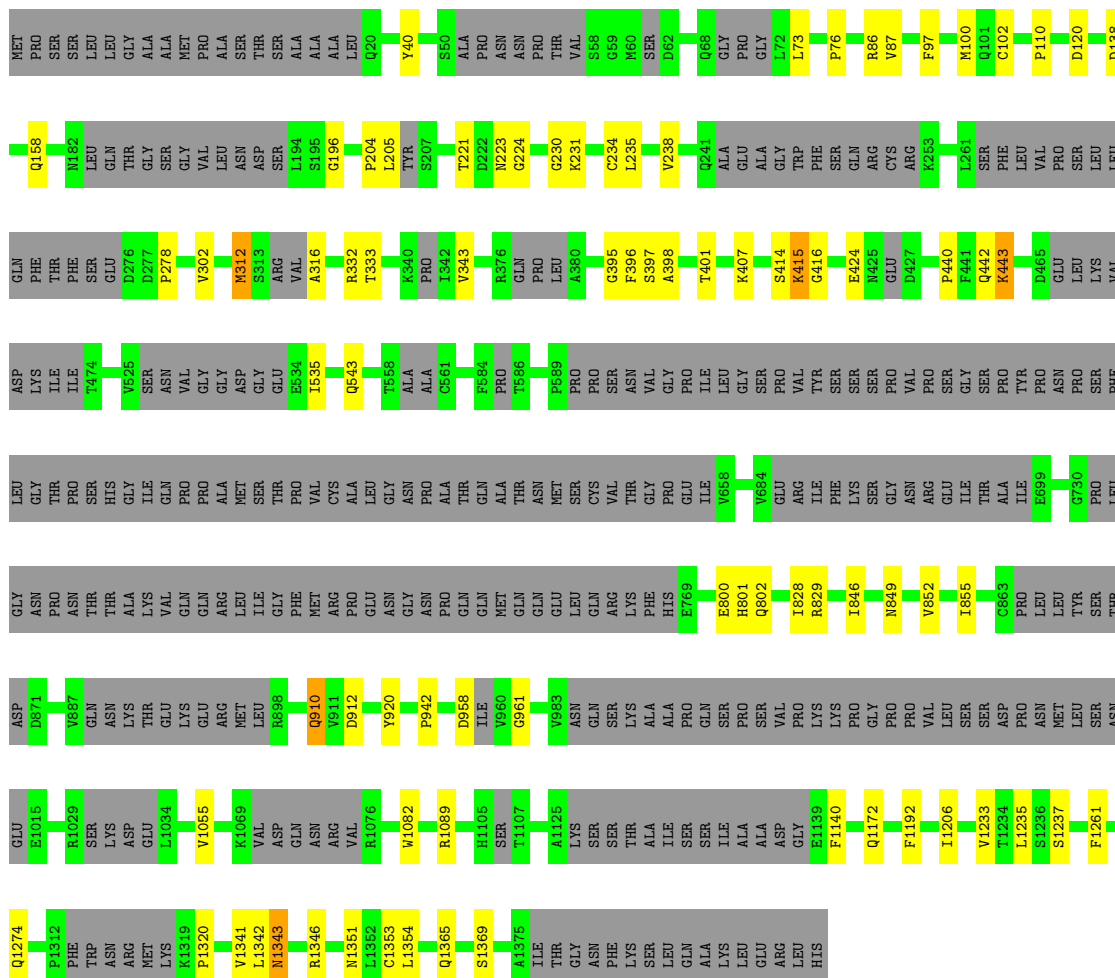






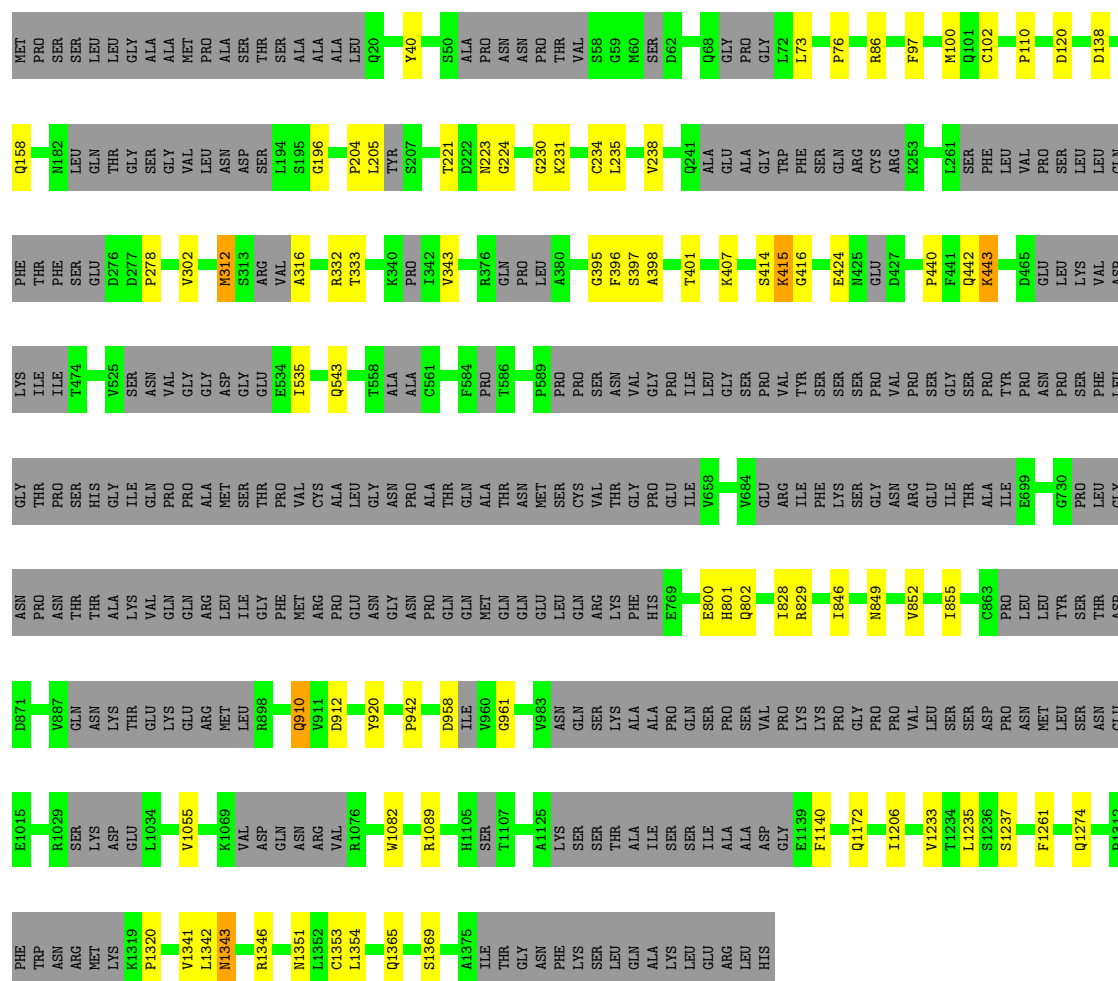
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 6-E:  72% 6% 22%



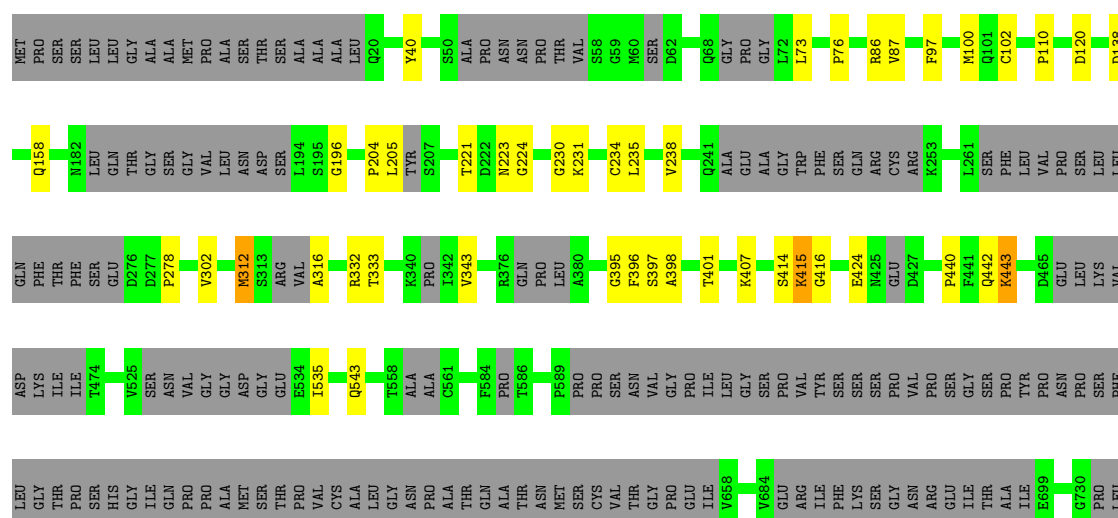
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

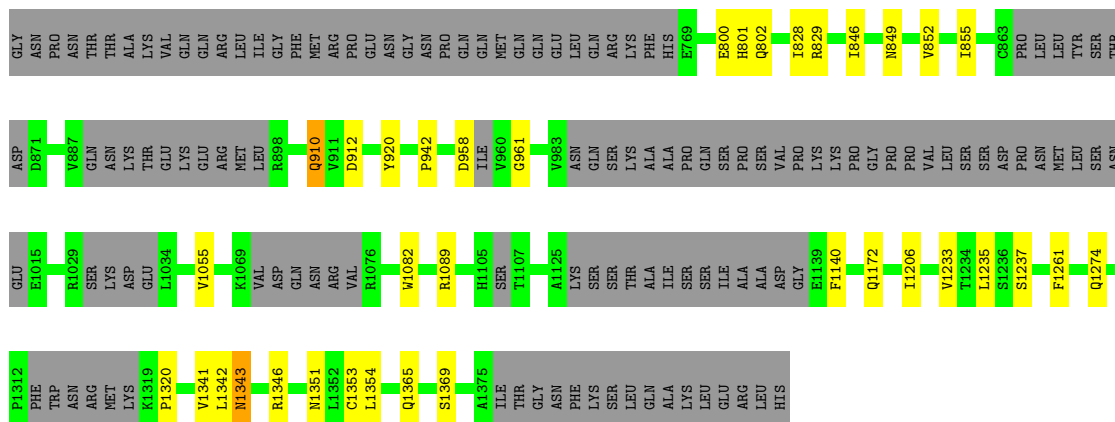
Chain 6-K:



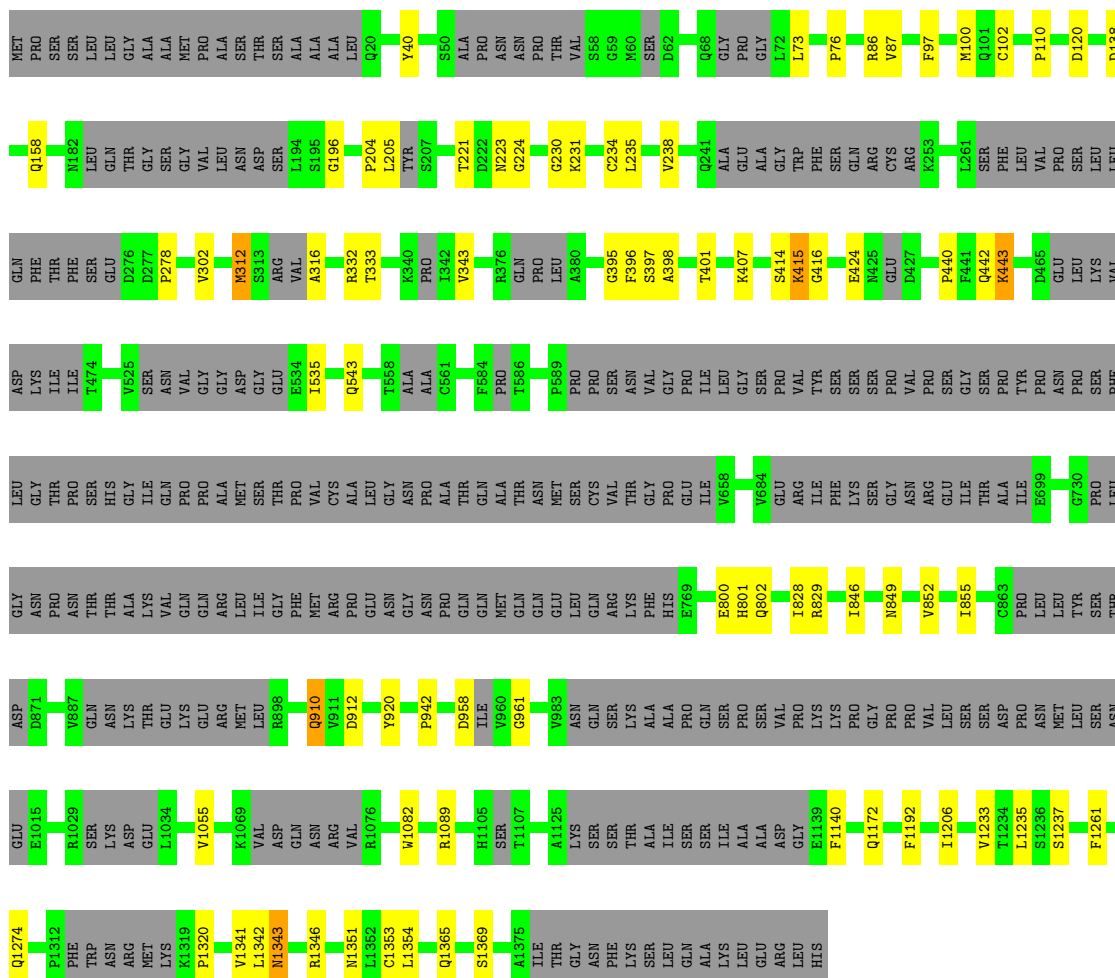
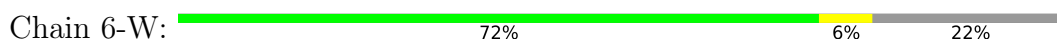
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 6-Q:



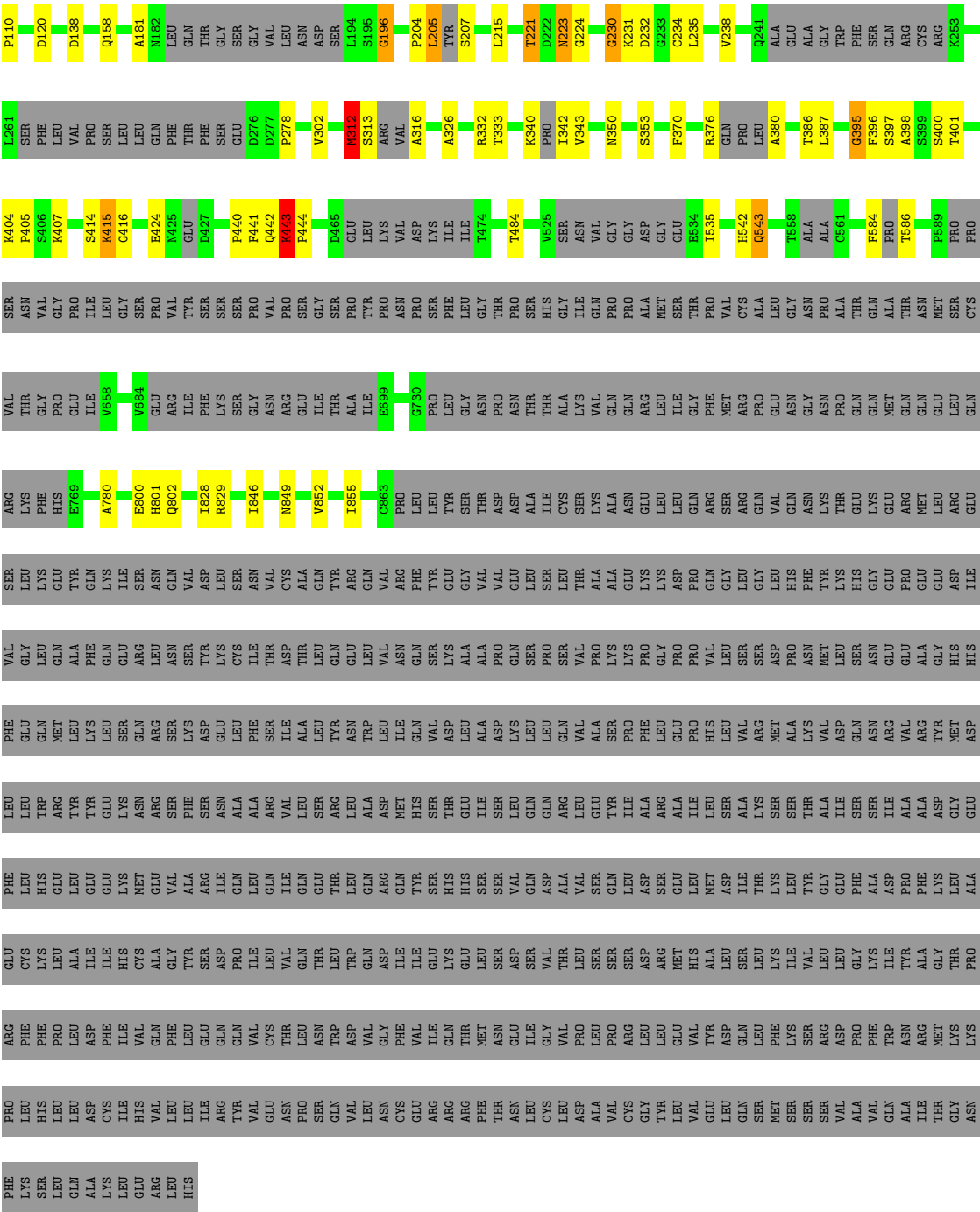


- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155



- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155





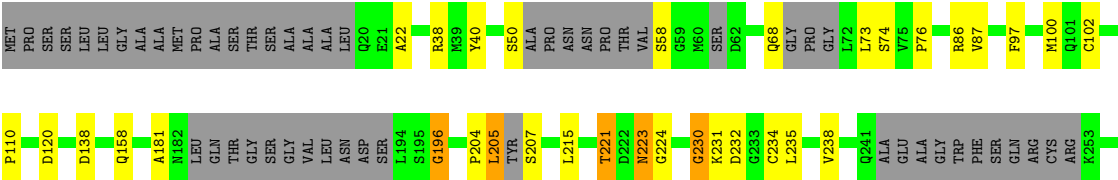
● Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155

Chain 7-E:

68%

9%

22%

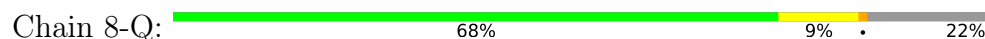


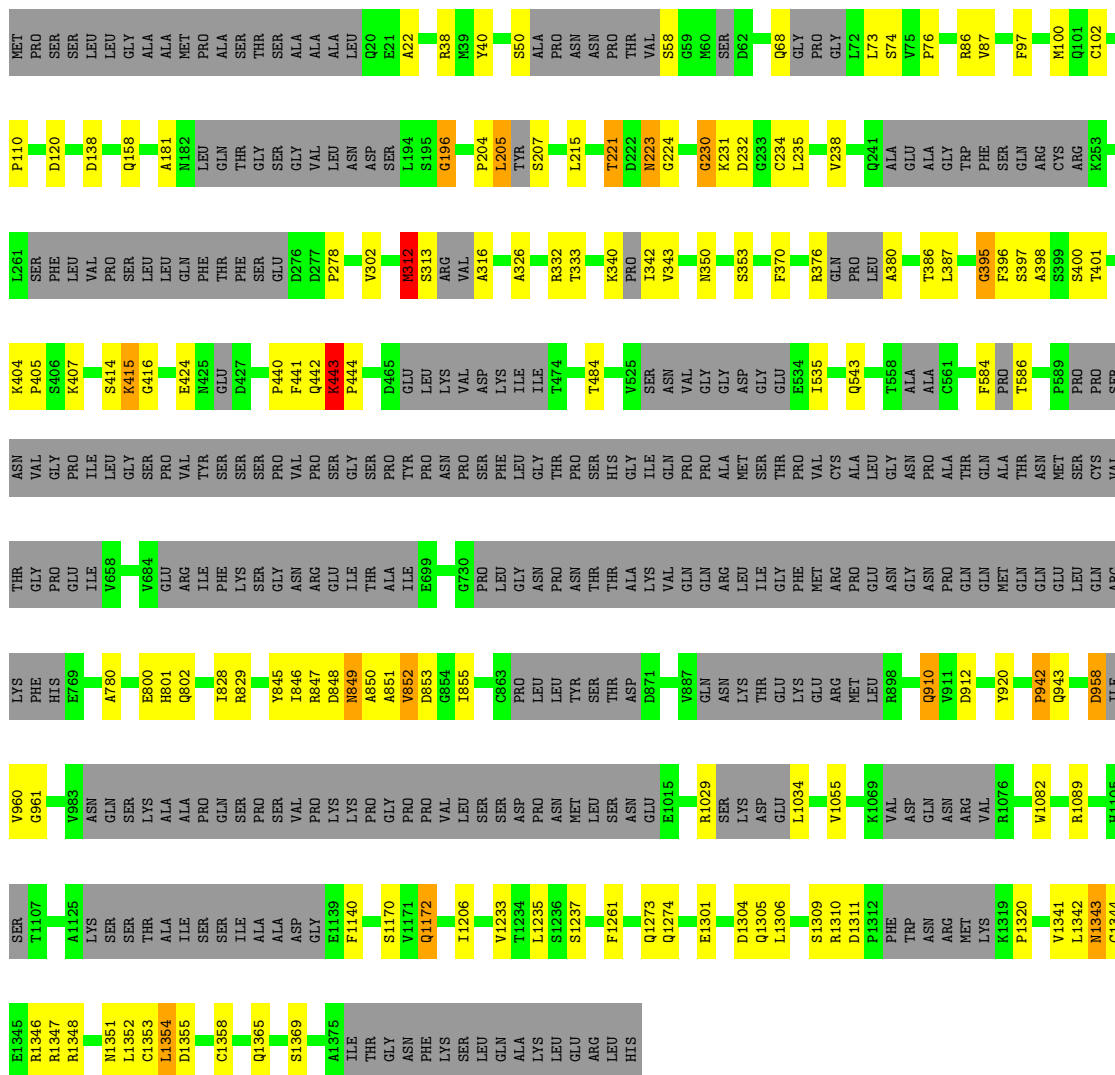




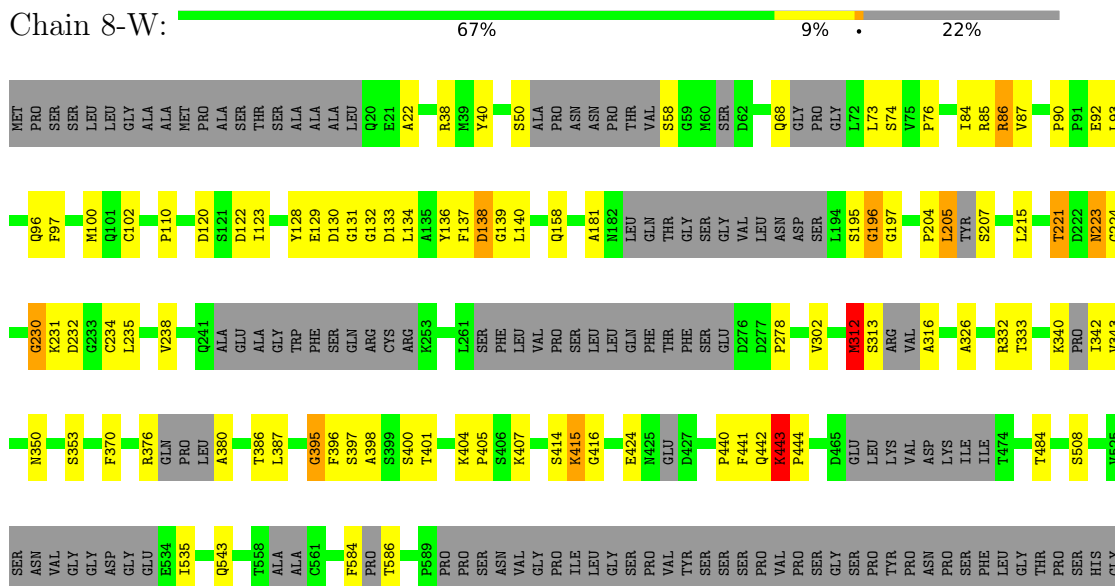
Response	Percentage
Yes	41%
No	5%
Don't know	53%

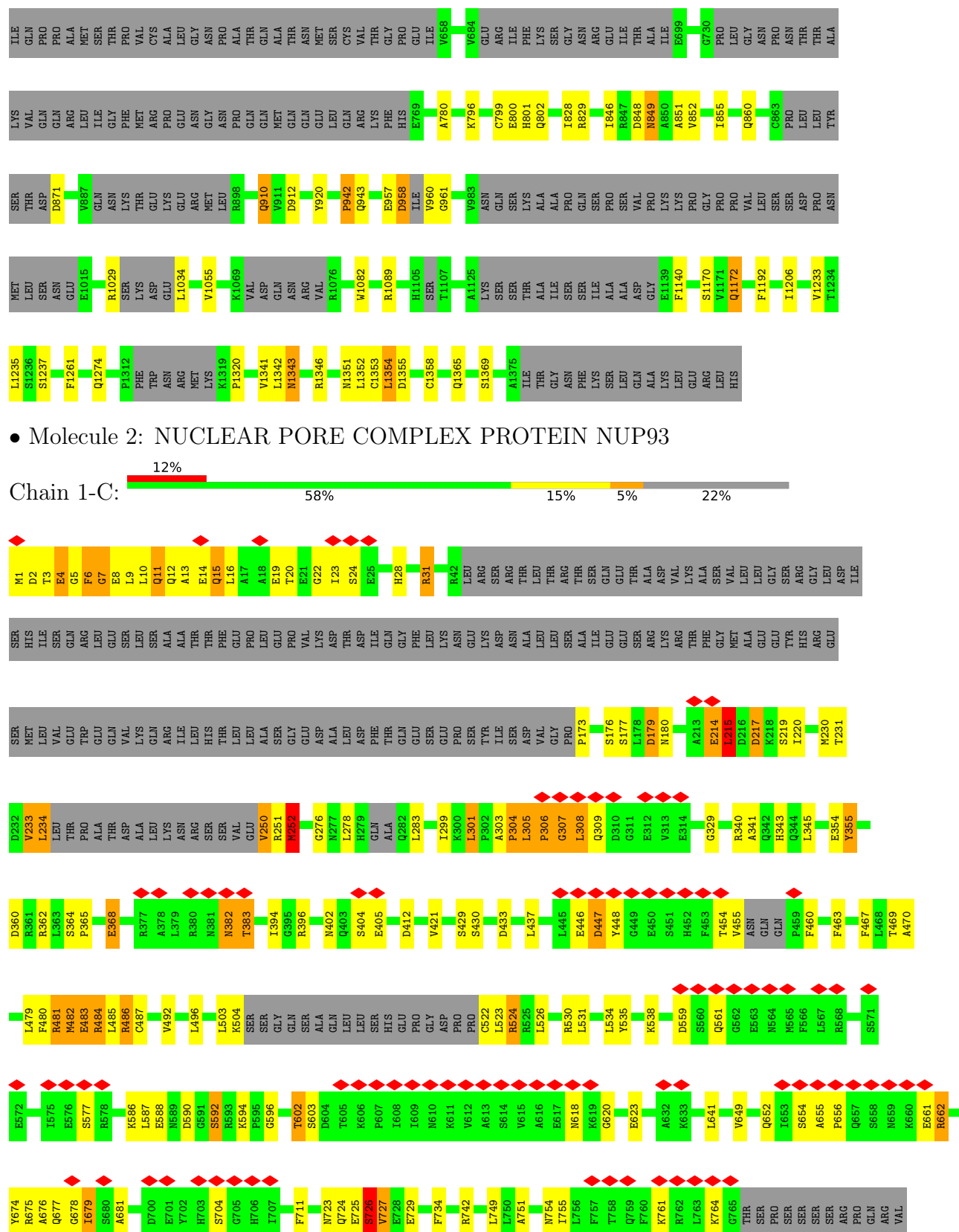


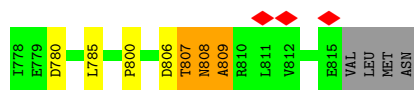




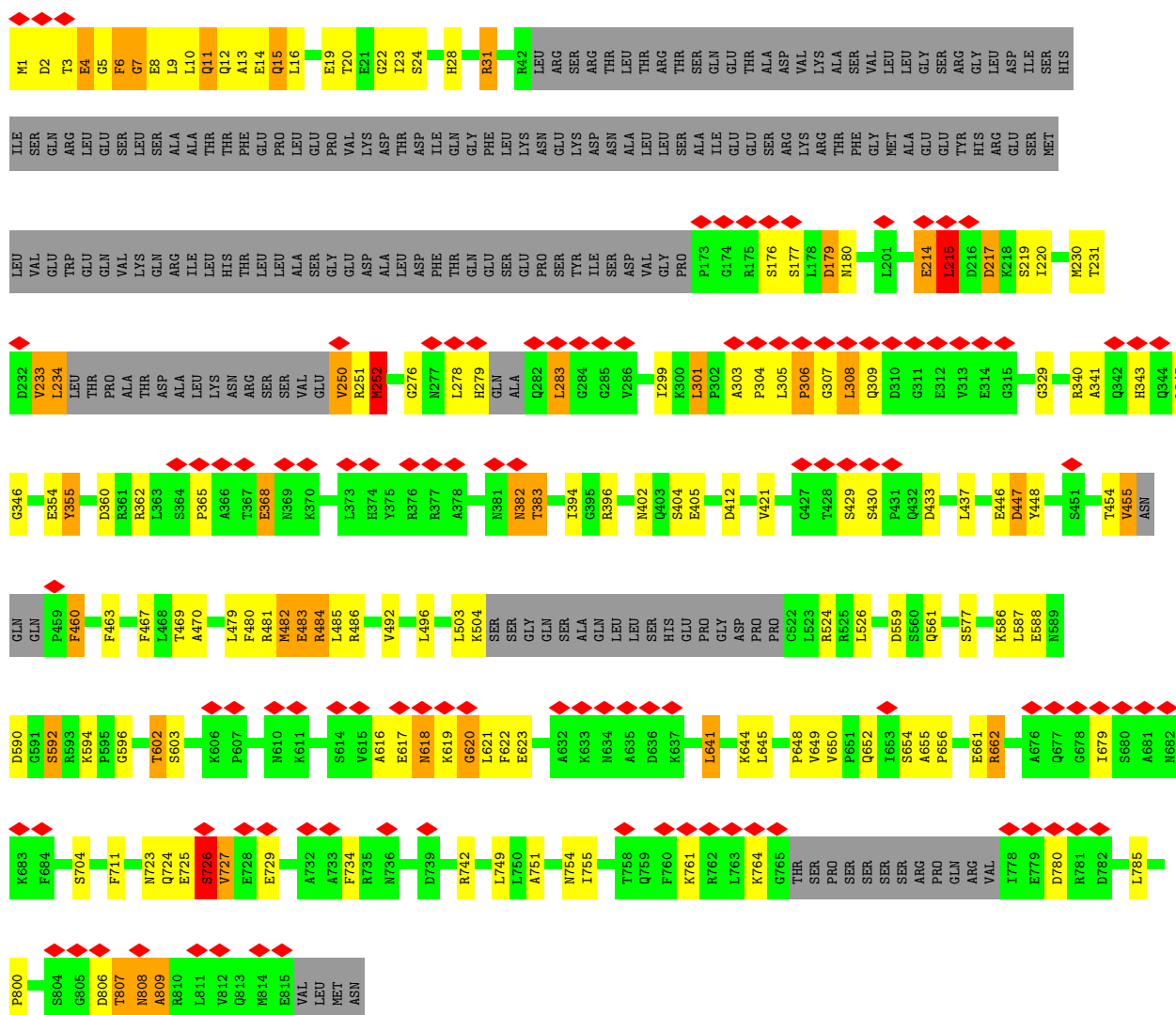
- Molecule 1: NUCLEAR PORE COMPLEX PROTEIN NUP155



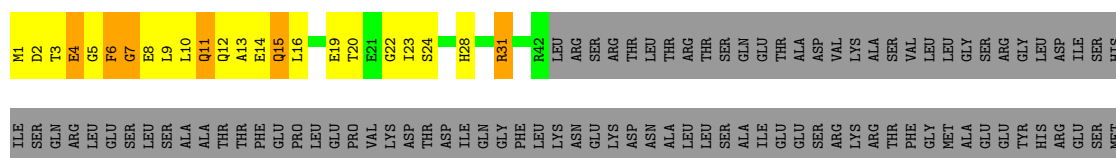


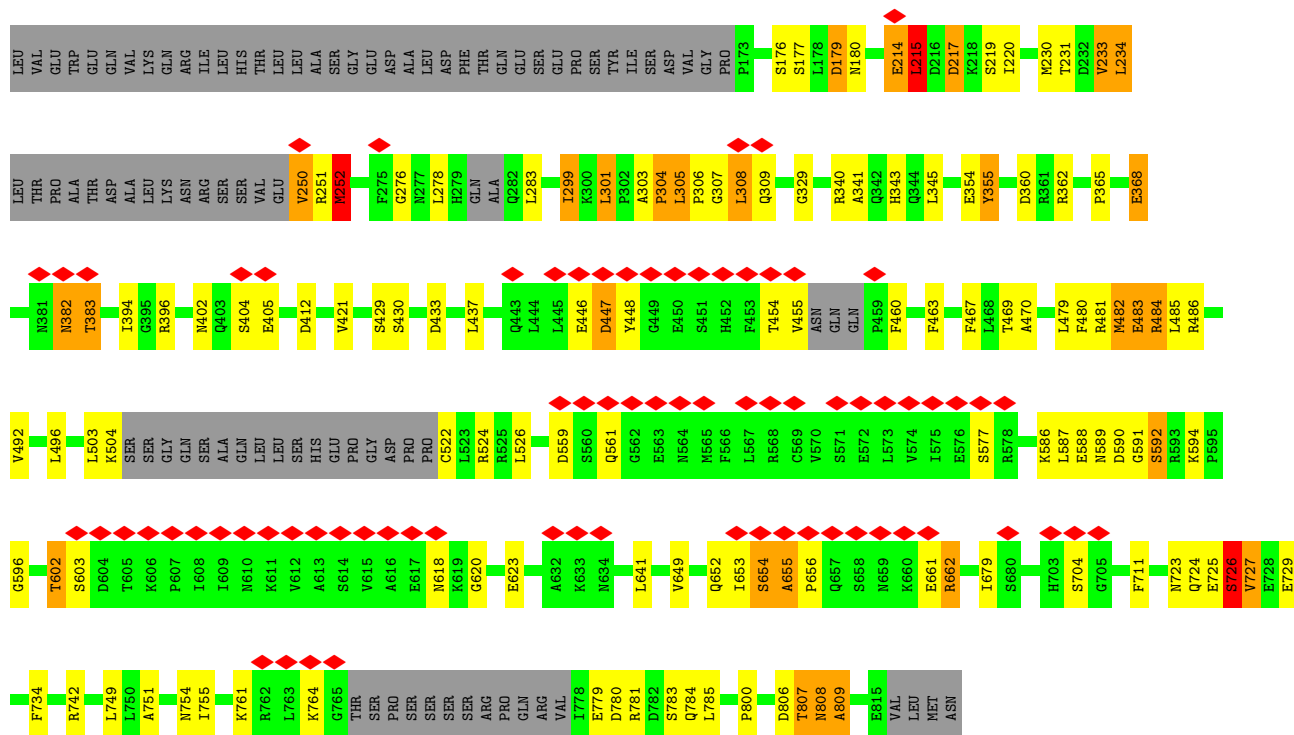


• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

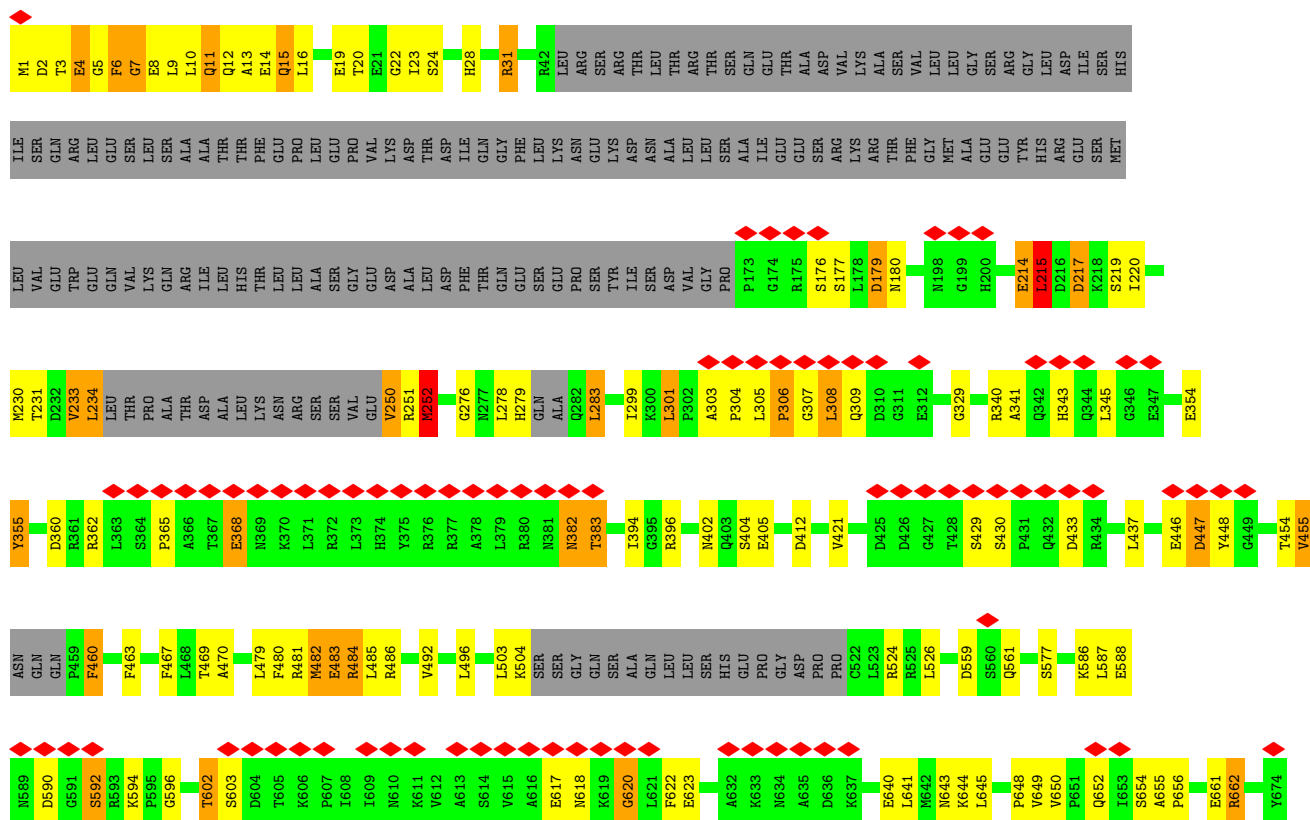


• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93





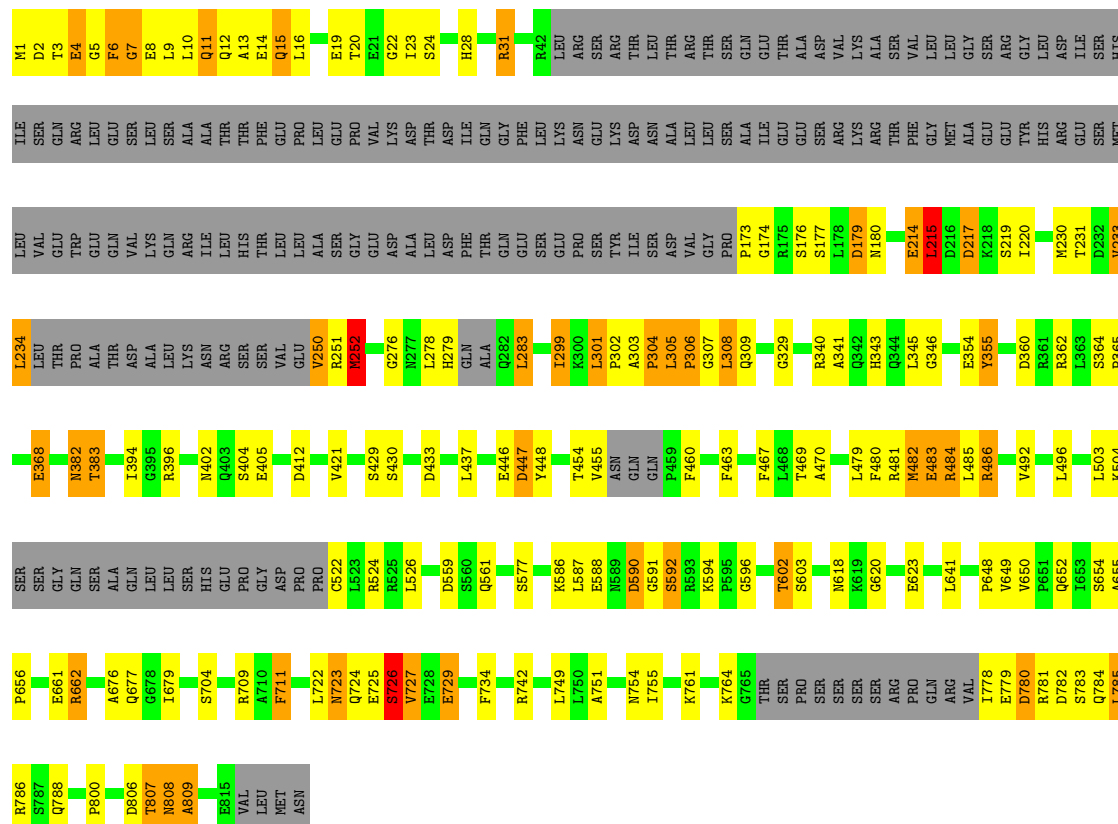
• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93





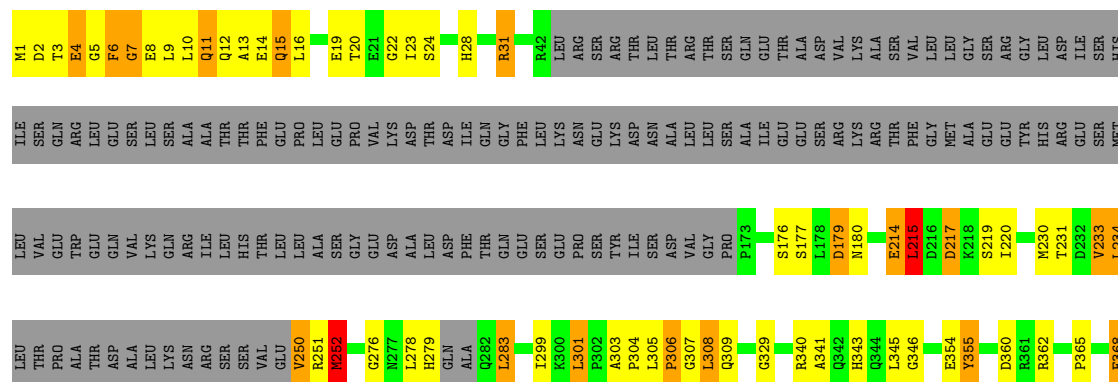
• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

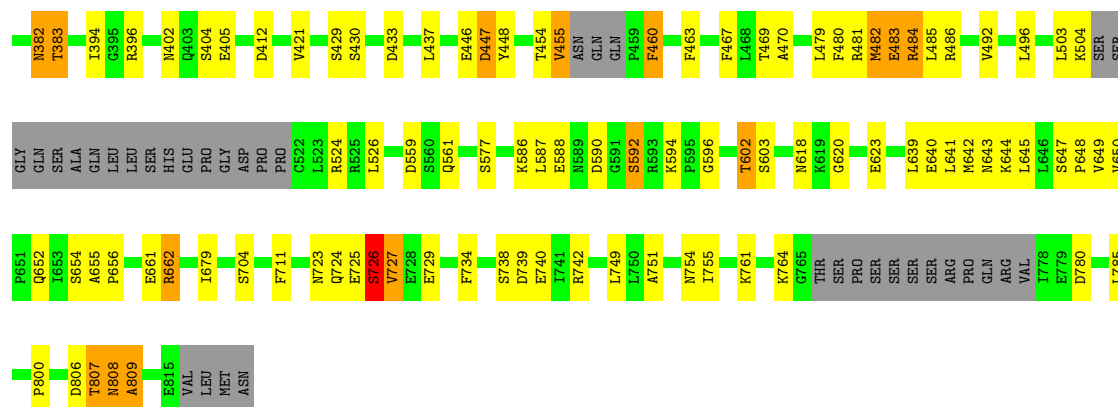
Chain 2-C: 57% 15% 5% 22%



• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

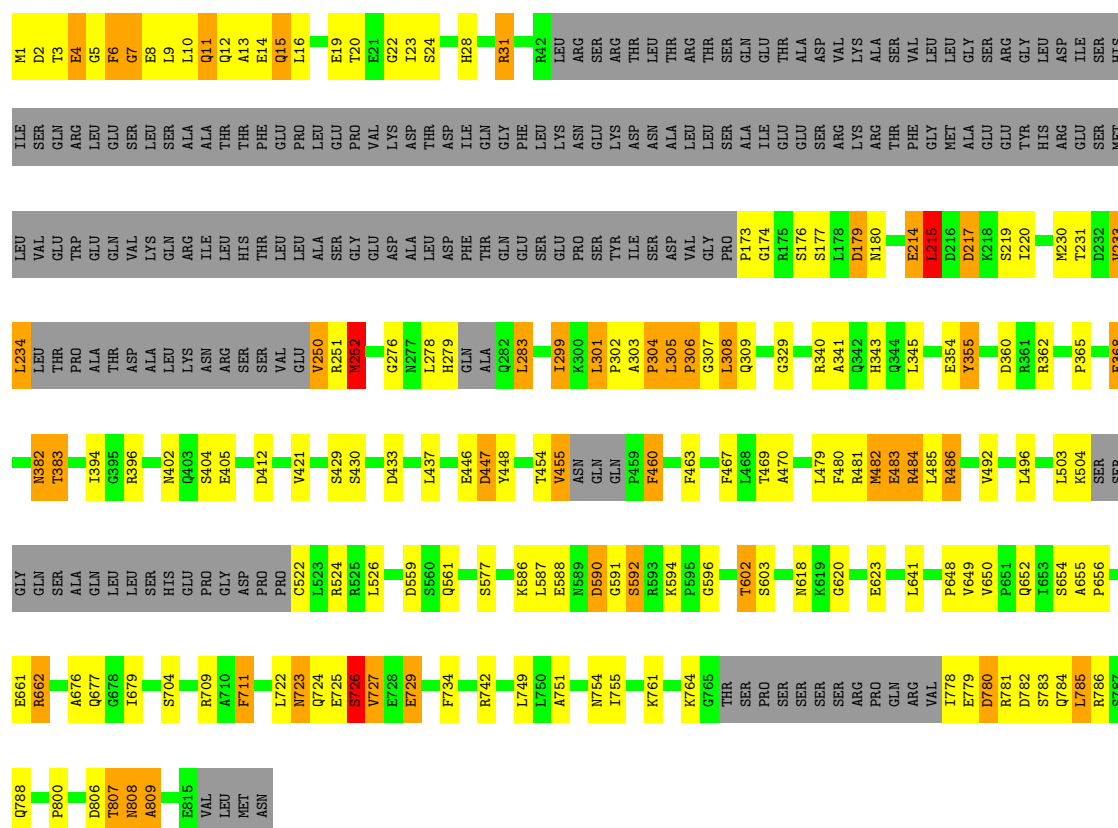
Chain 2-I: 58% 15% 22%





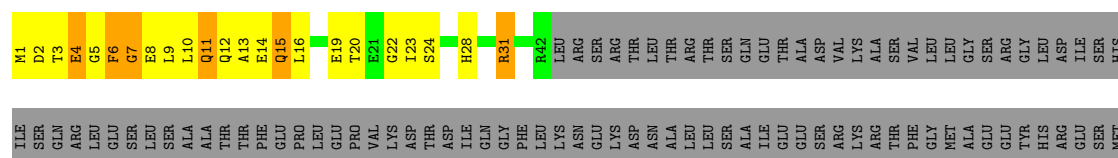
• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

Chain 2-O: 57% 15% 5% 22%

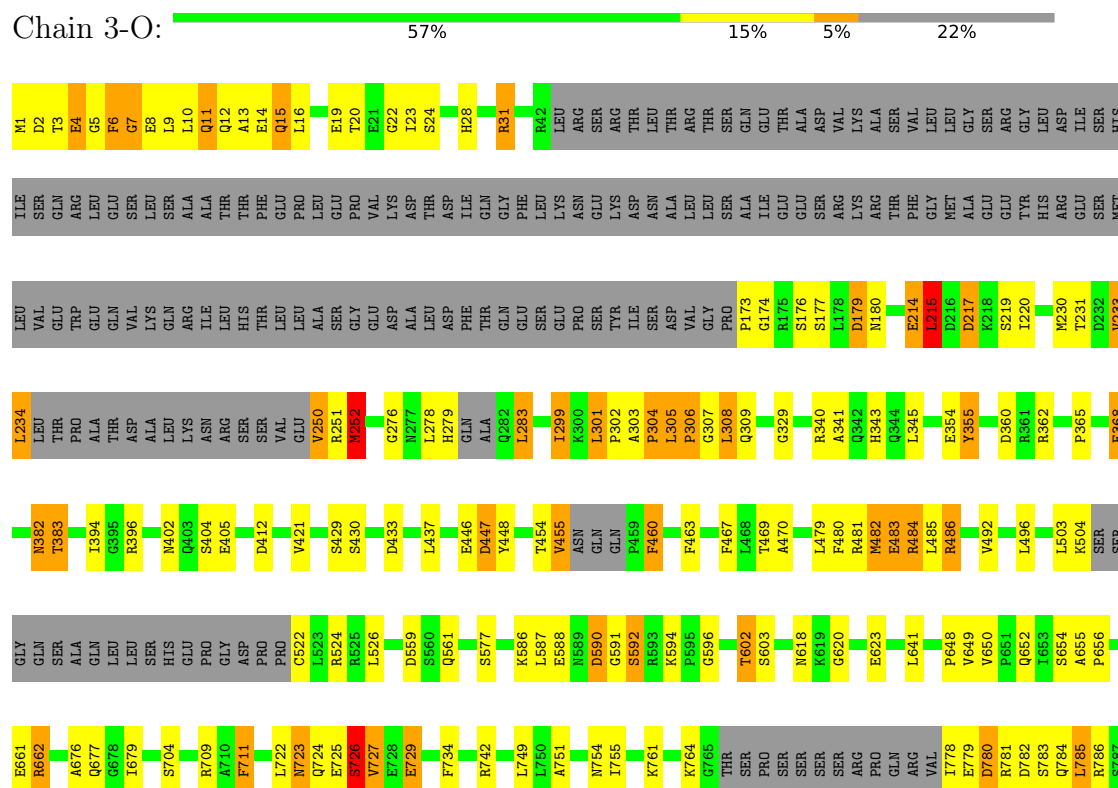
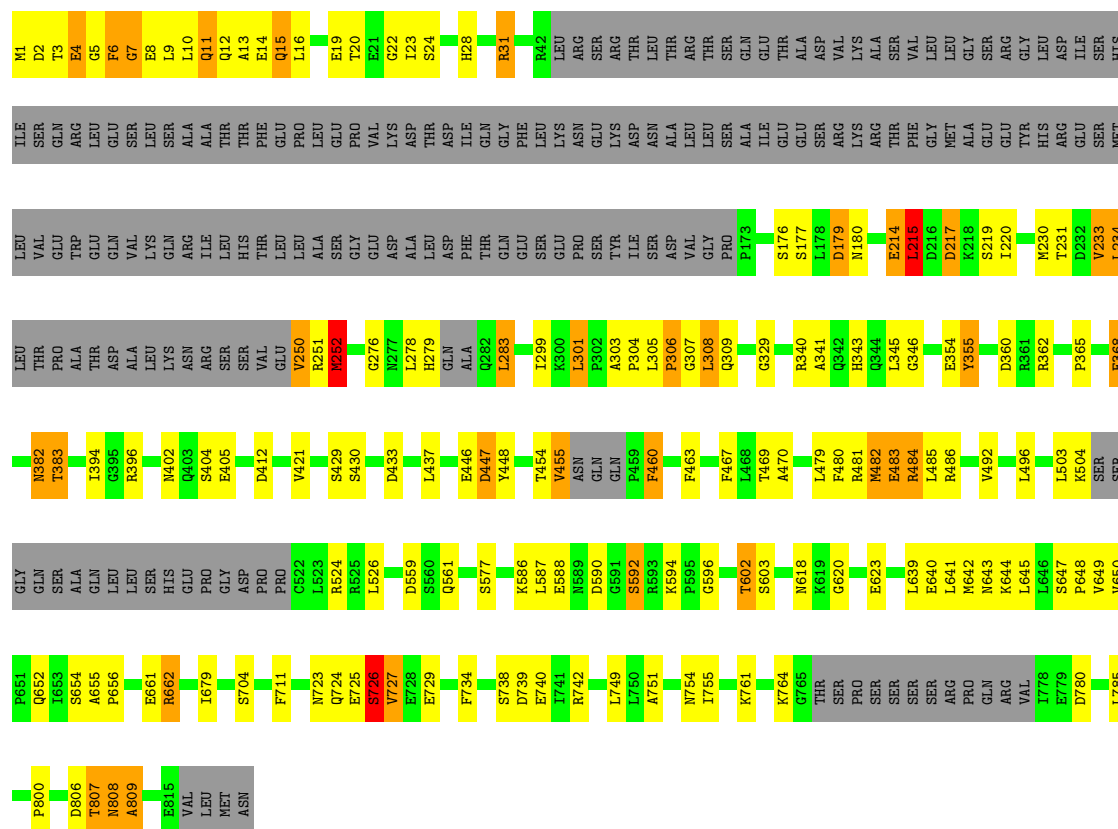


• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

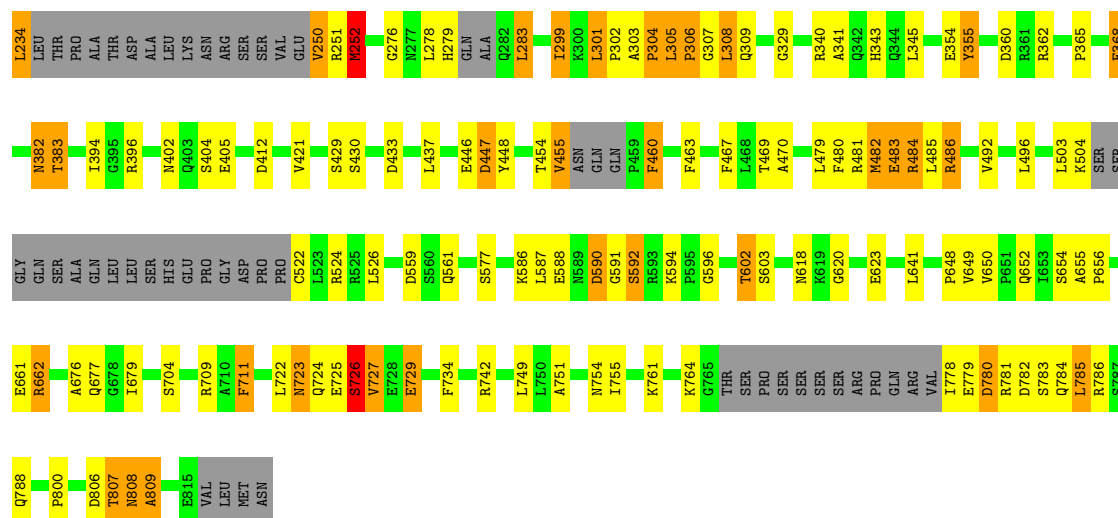
Chain 2-U: 58% 15% 22%





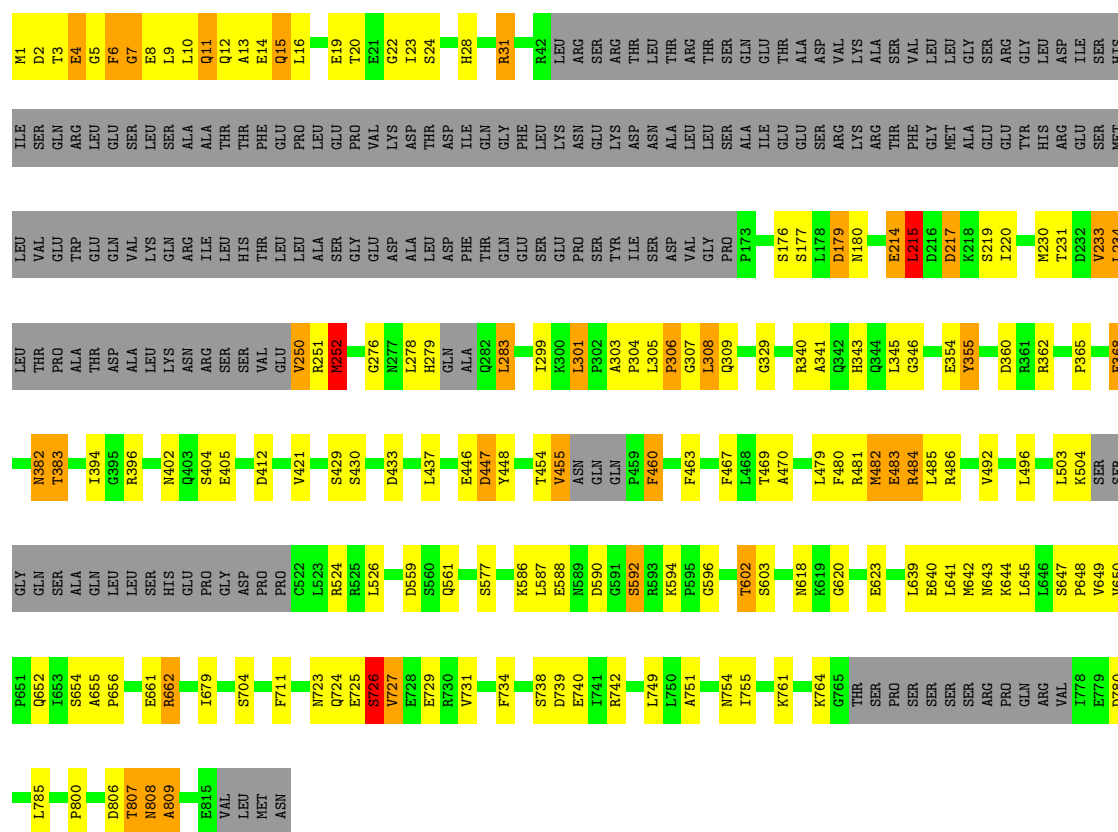






• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

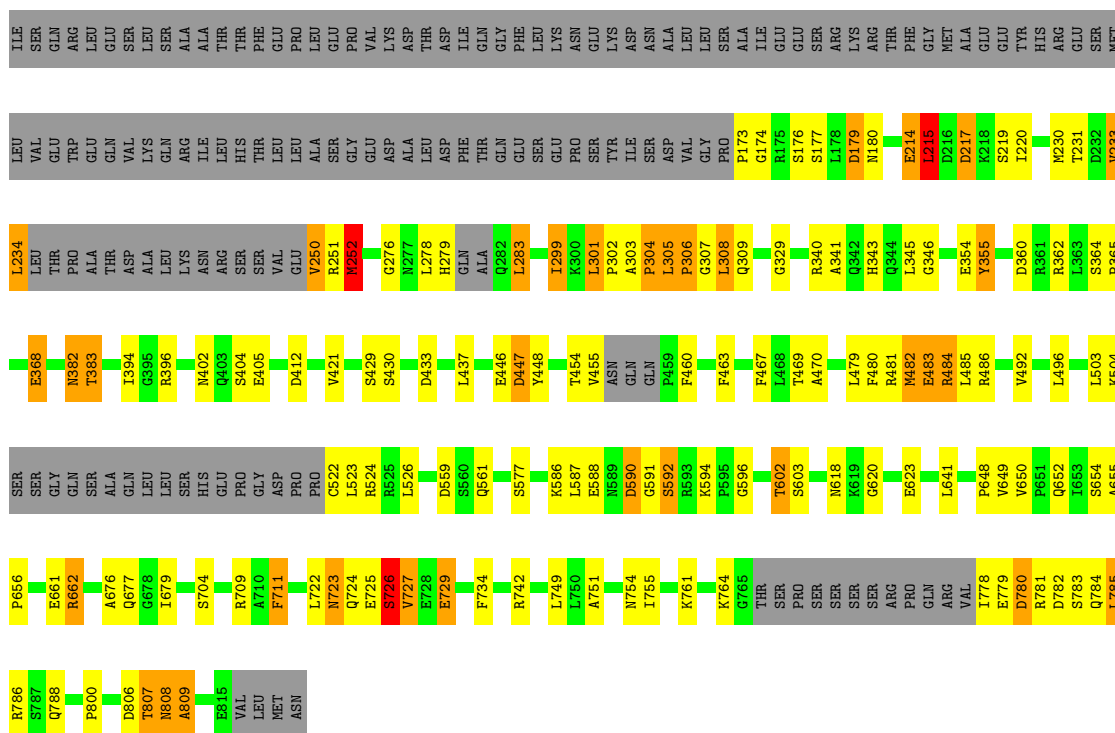
Chain 4-U: 58% 15% 22%



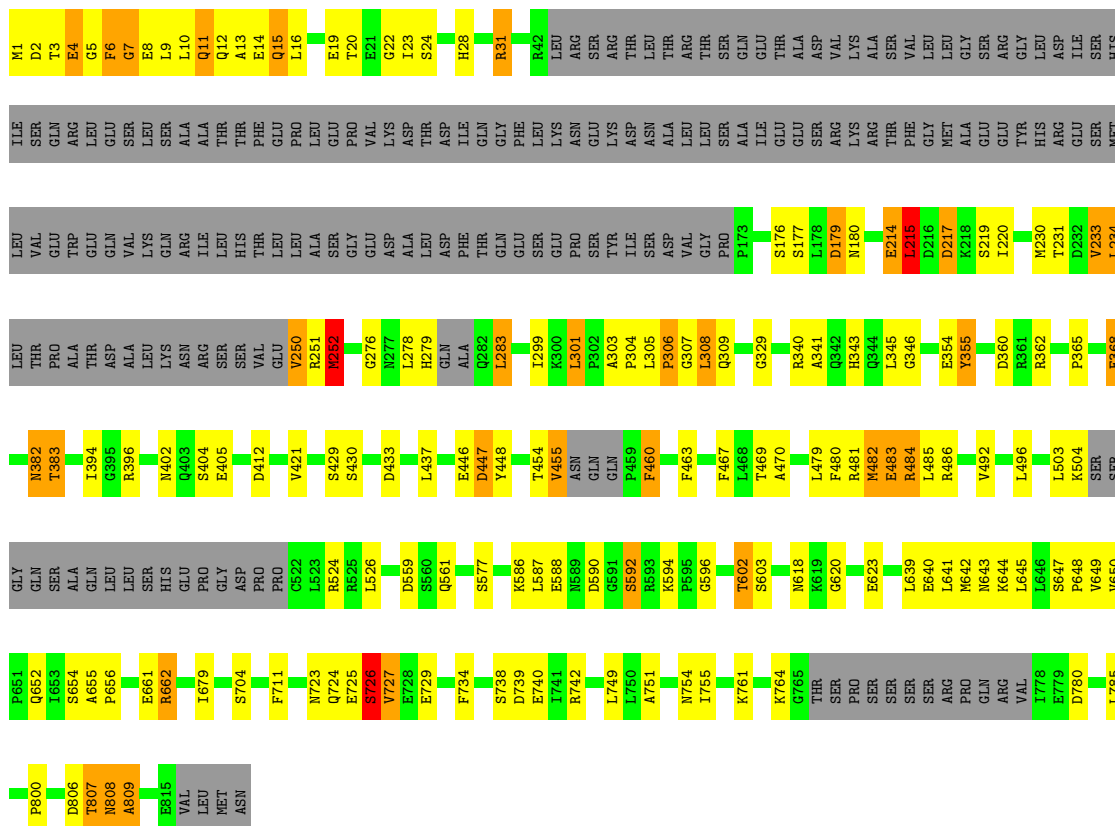
• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

Chain 5-C: 57% 15% 5% 22%



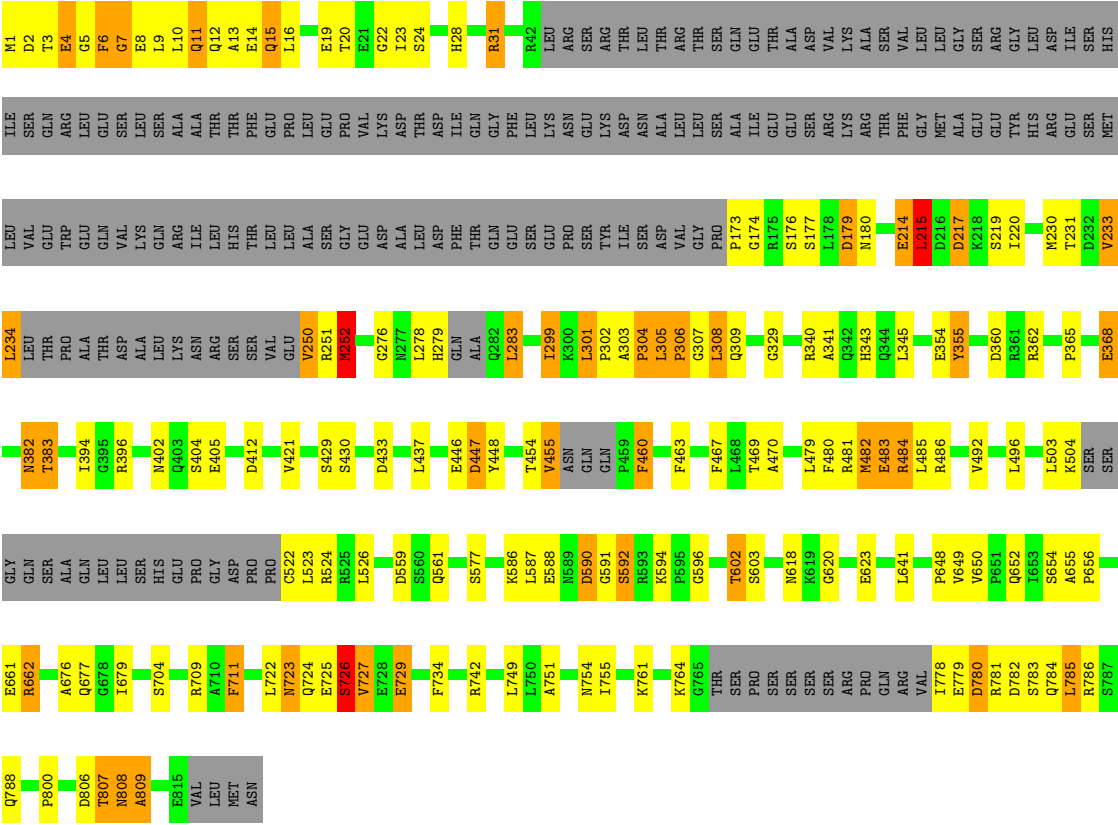


- Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93



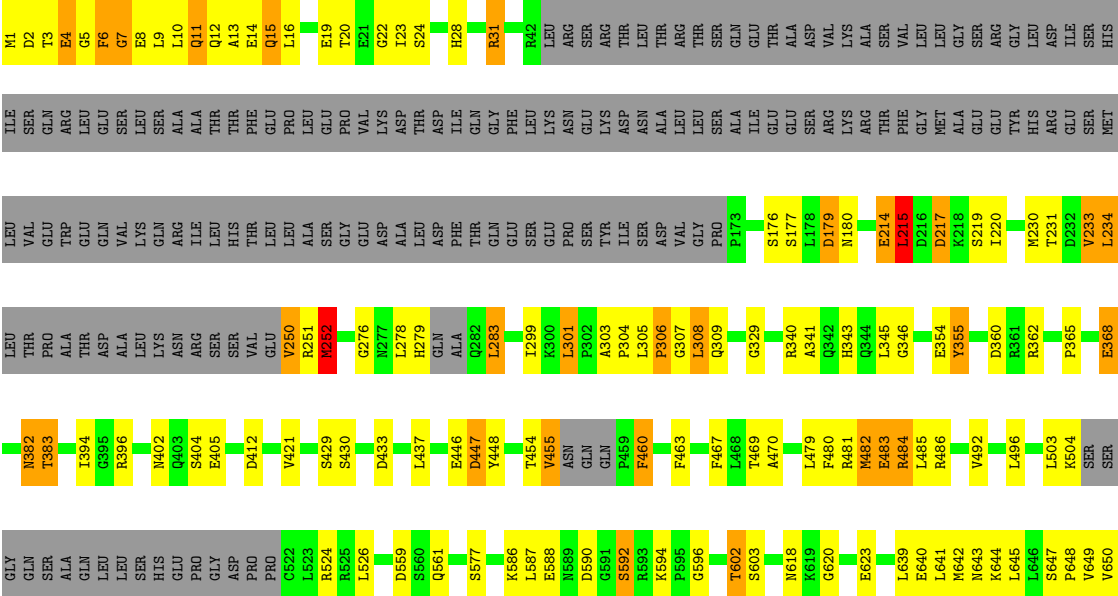
- Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

Chain 5-O: 57% 15% 5% 22%

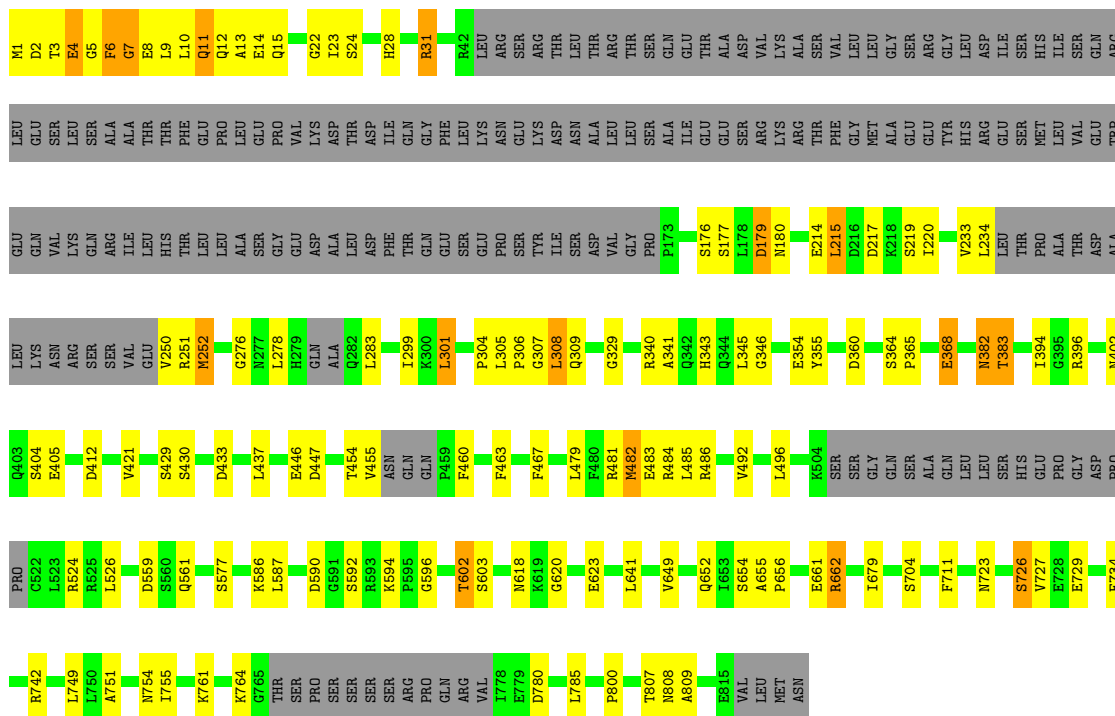


● Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

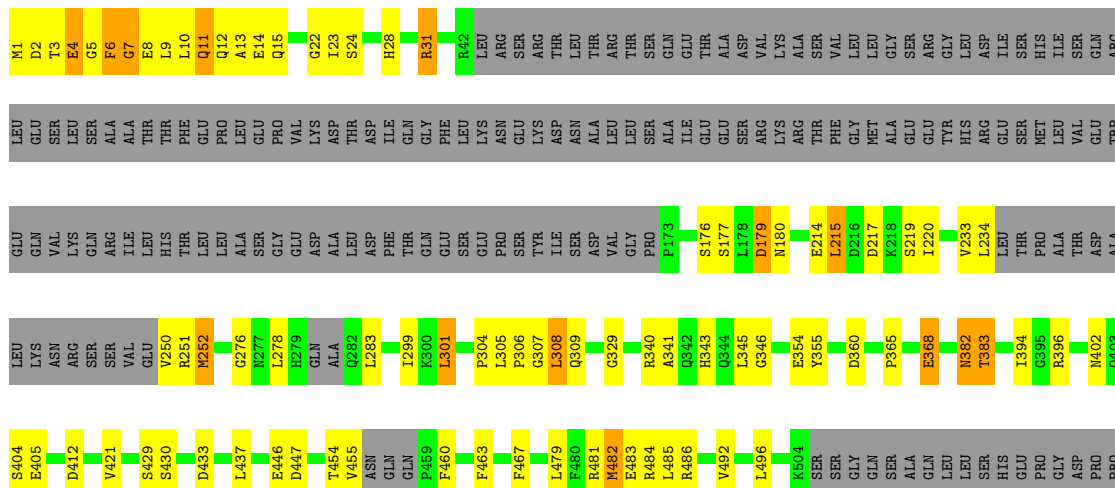
Chain 5-U: 58% 15% 22%

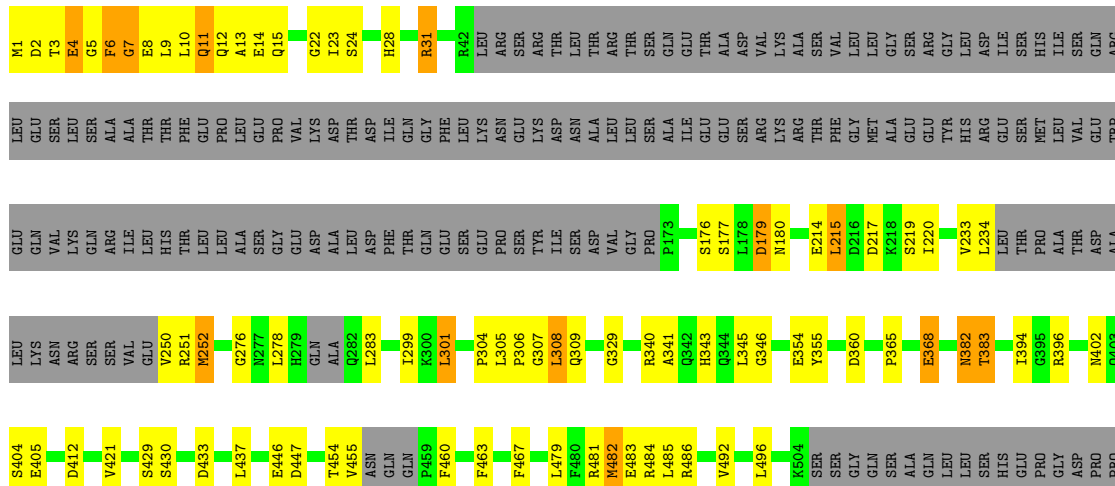


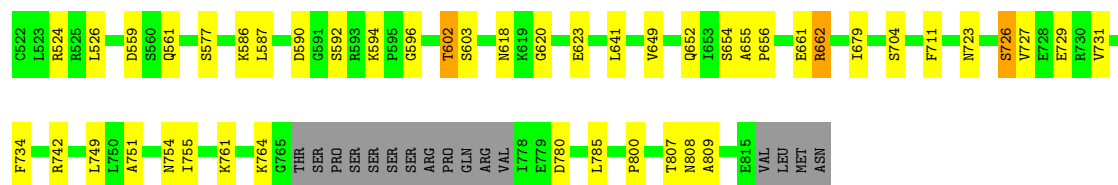
- Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93



- Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

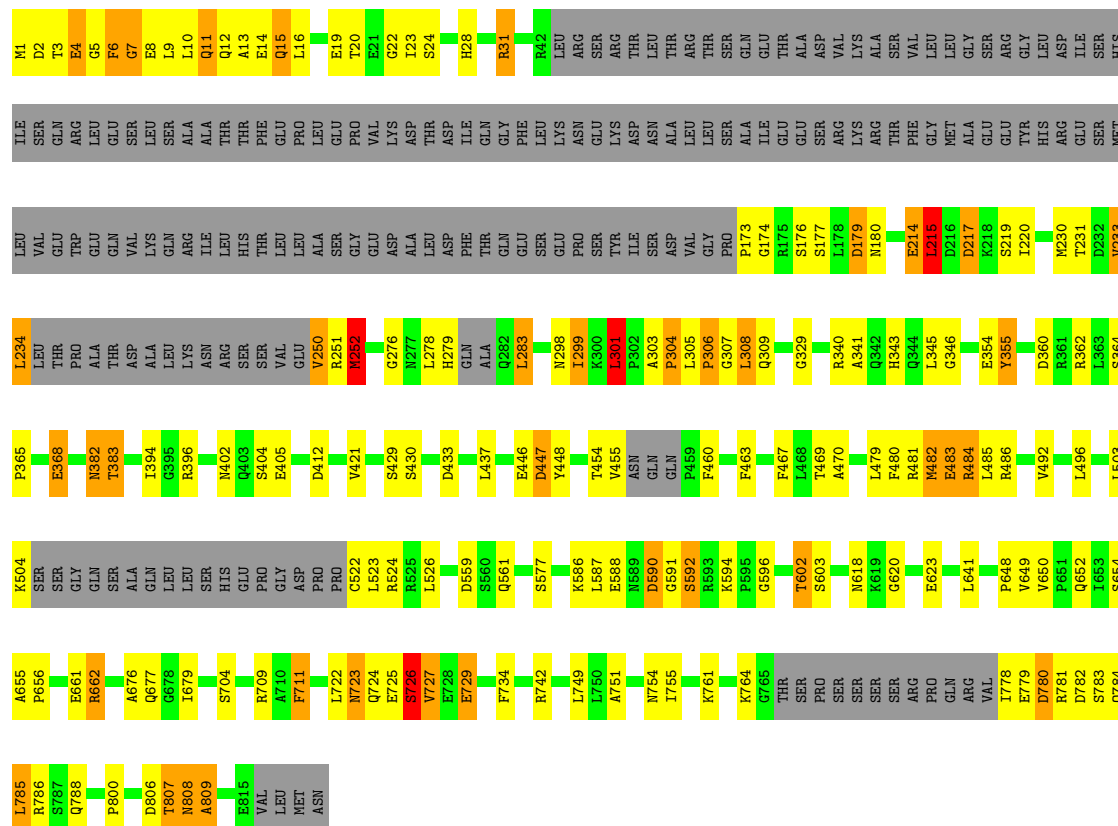






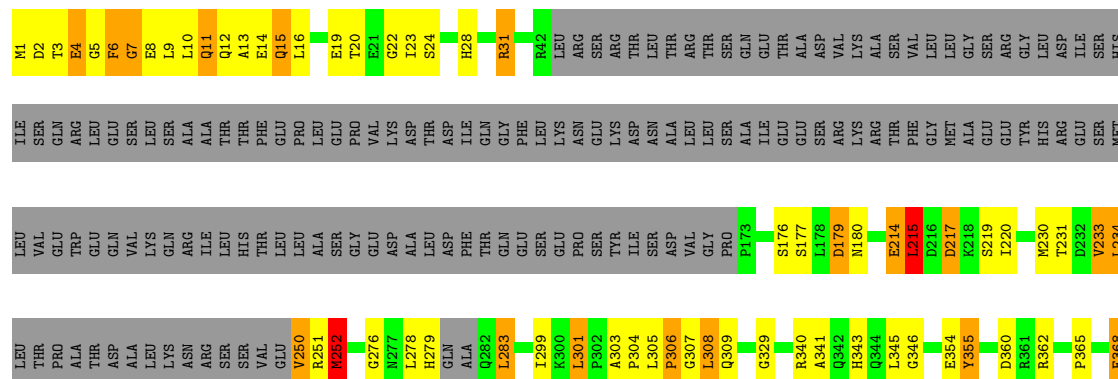
• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

Chain 7-C: 57% 16% 5% 22%

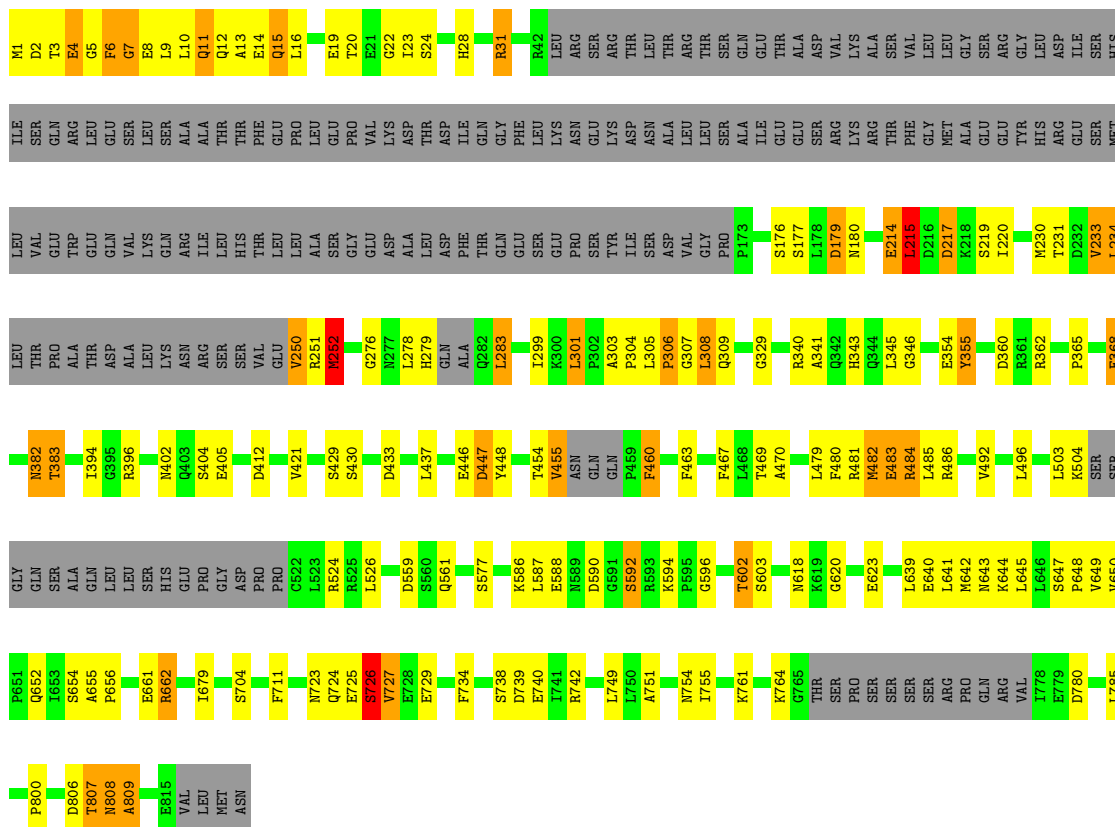


• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

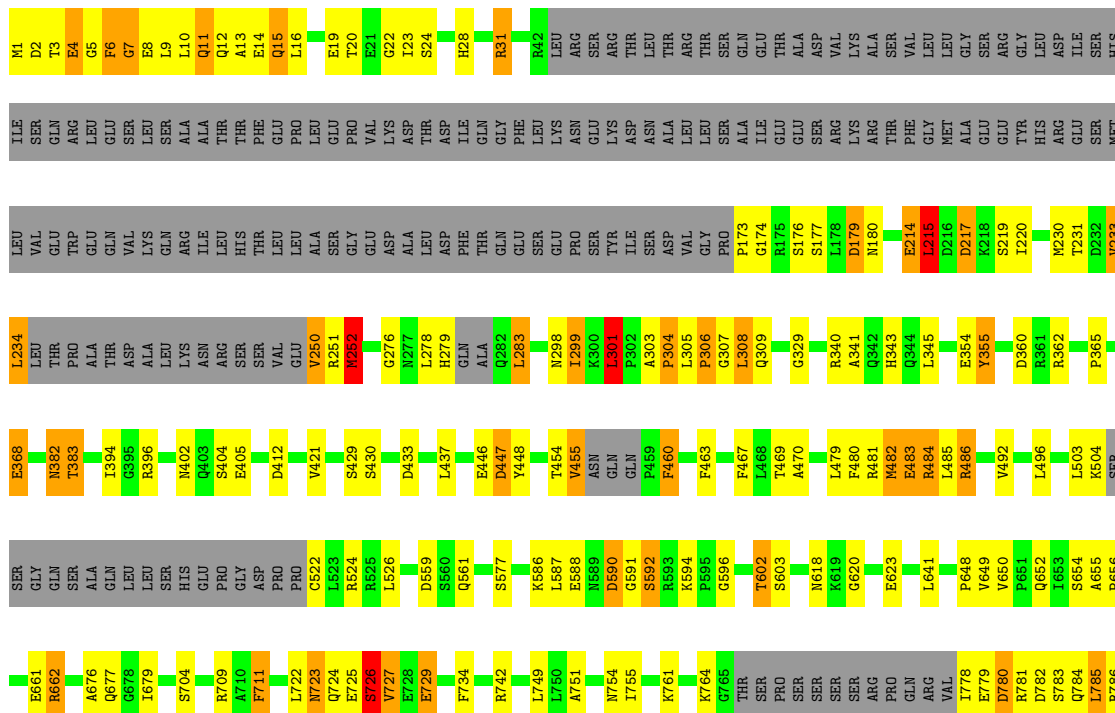
Chain 7-I: 58% 15% 22%

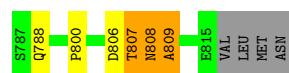






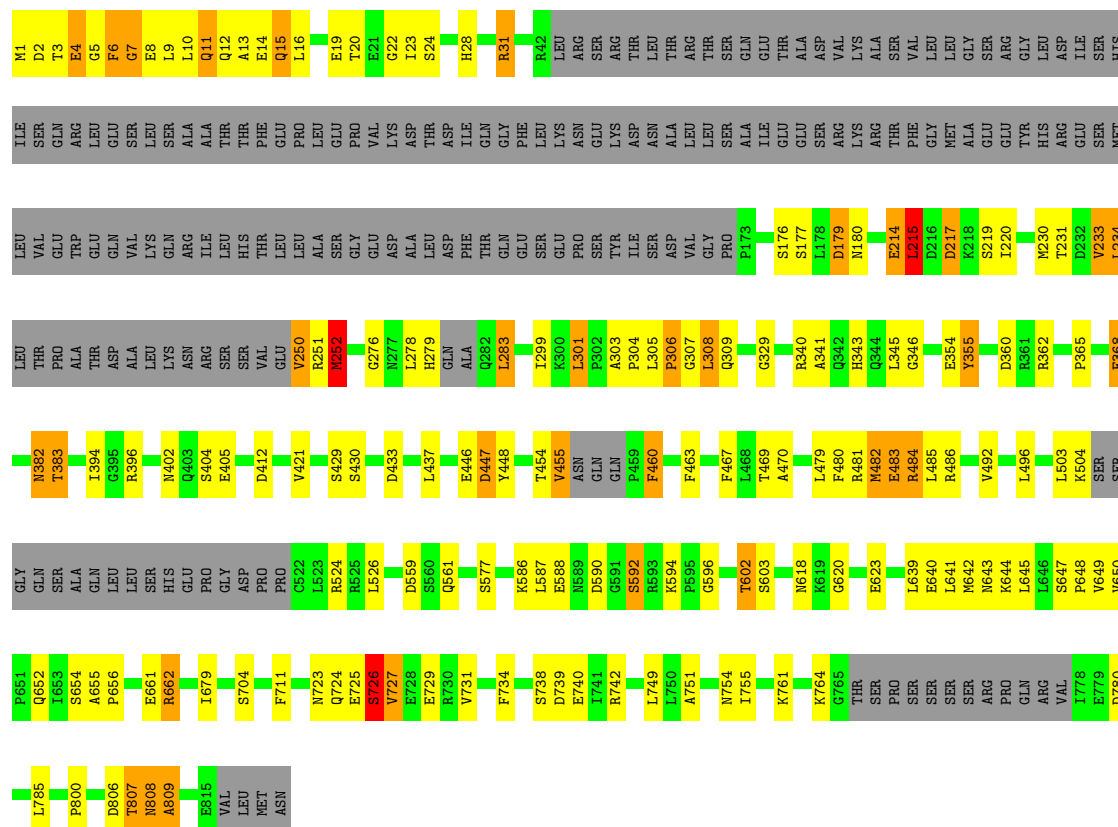
- Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93





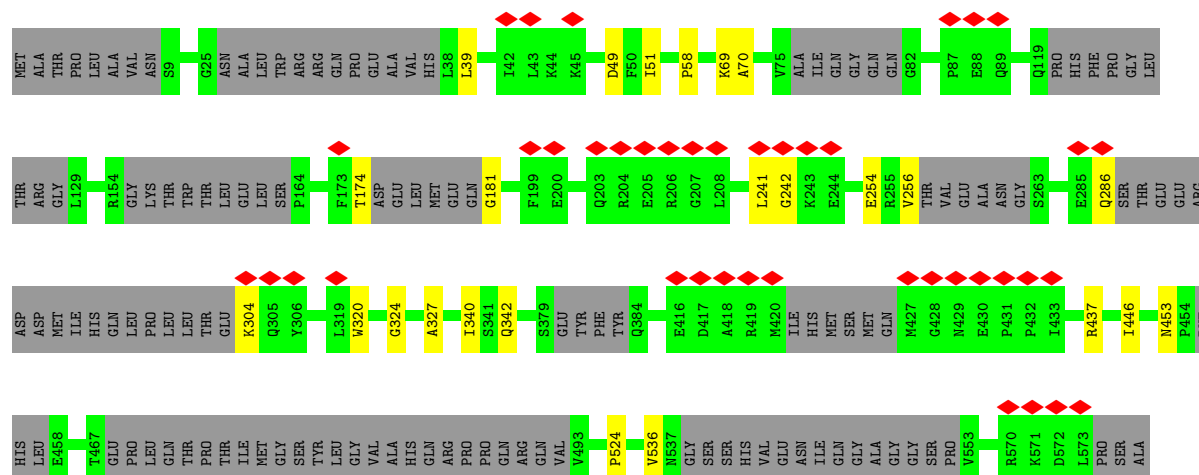
• Molecule 2: NUCLEAR PORE COMPLEX PROTEIN NUP93

Chain 8-U: 58% 15% 22%



• Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

Chain 1-D: 5% 43% 49%



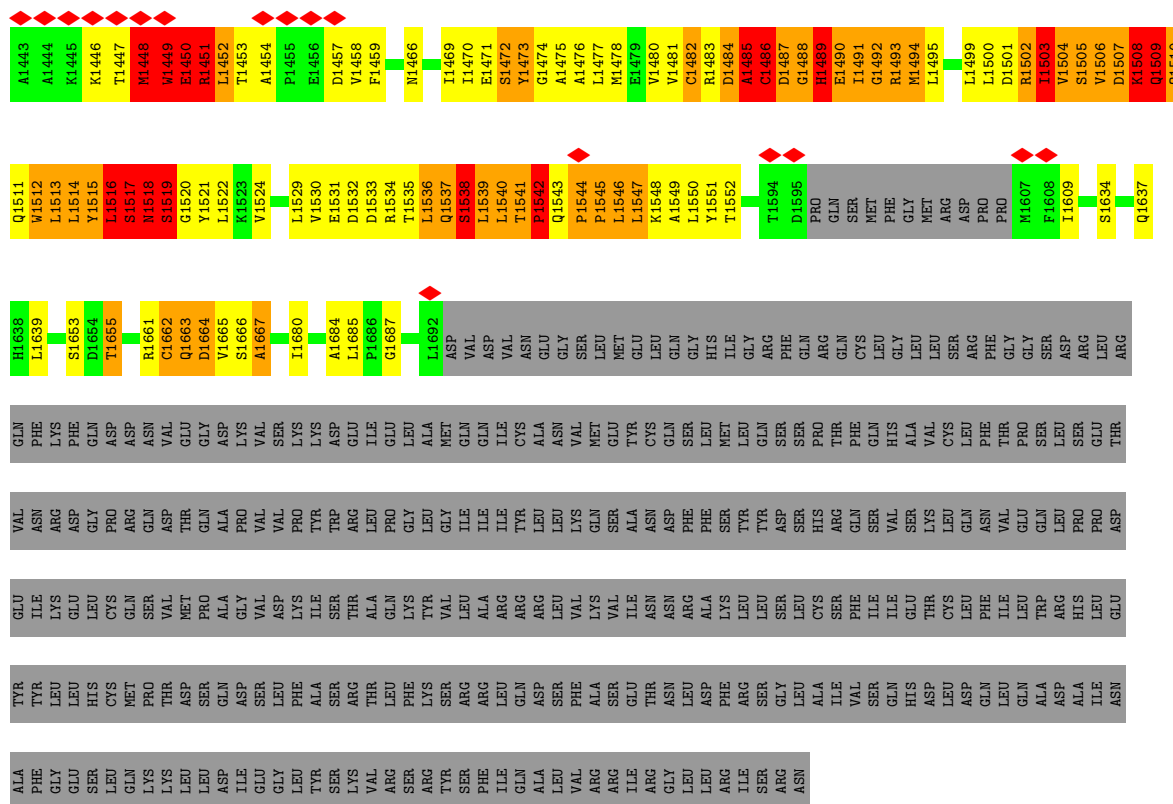






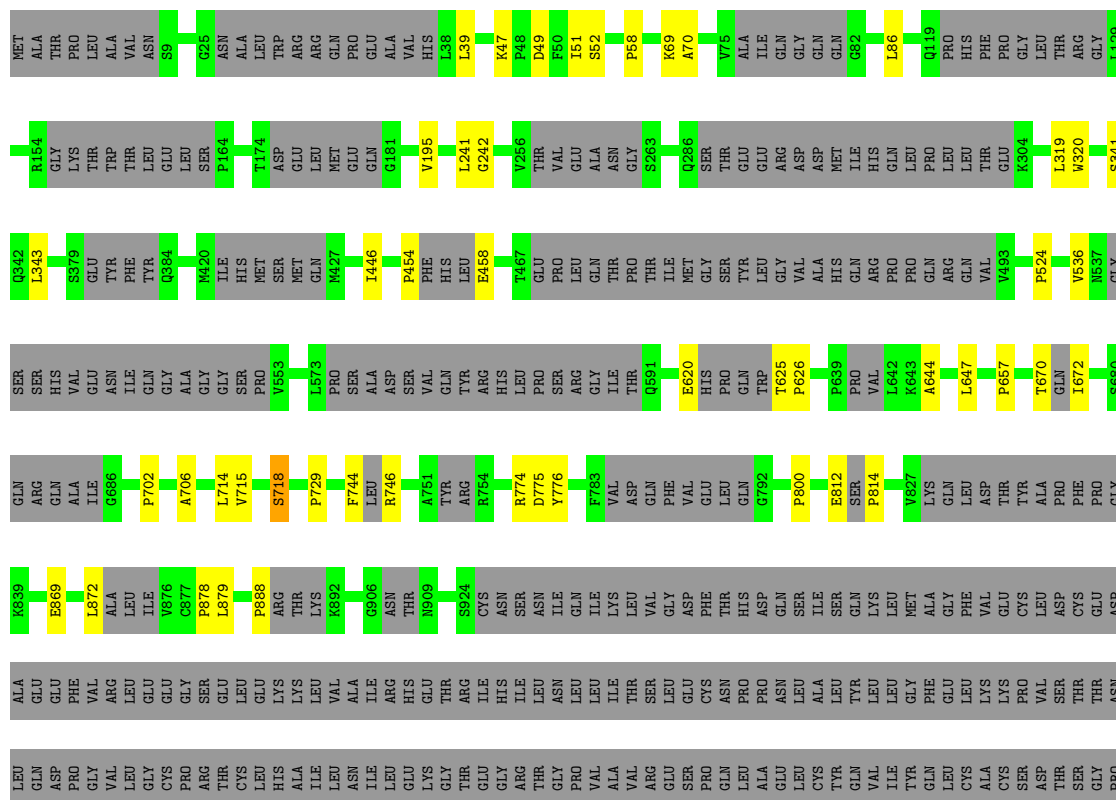
Chain 1-V:





• Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

Chain 2-D: 43% 5% .. 49%



- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205



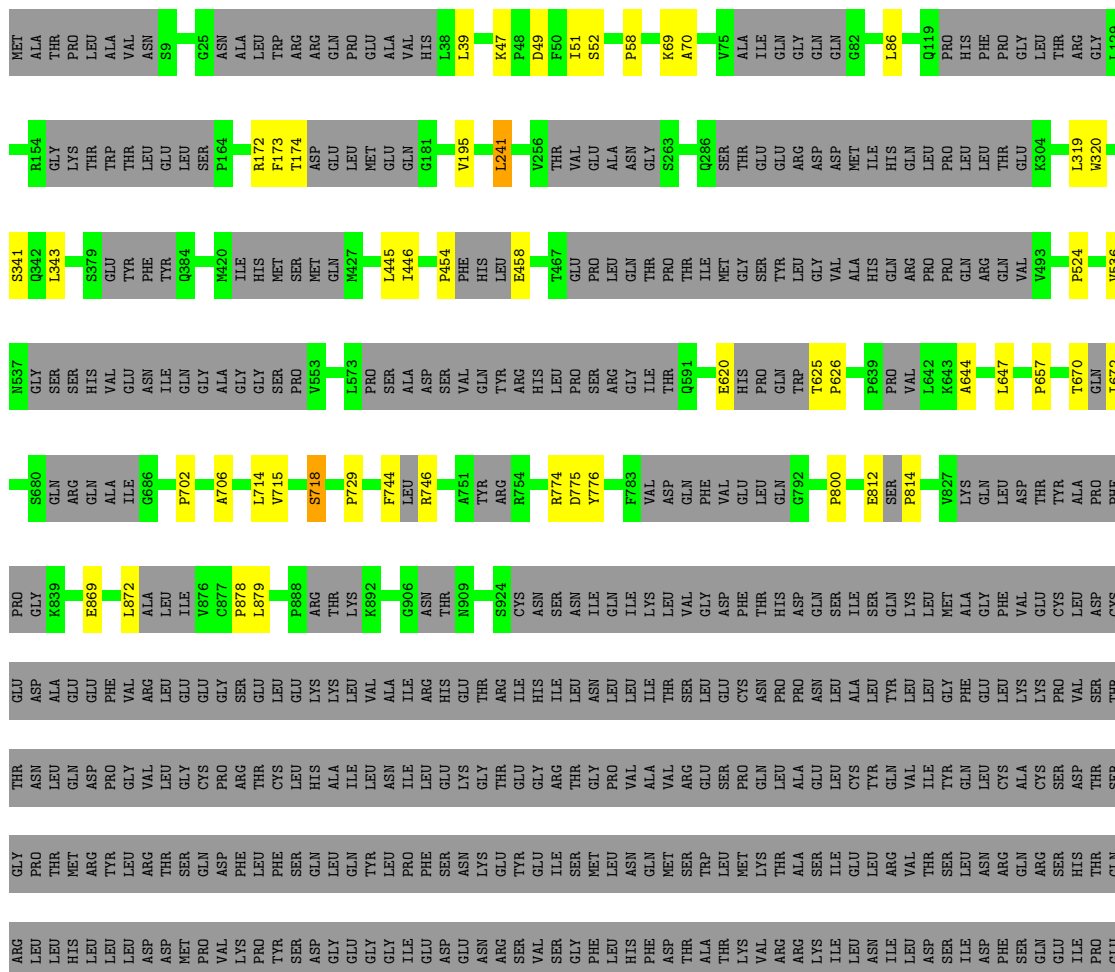
ILE
SER
ARG
ASN

● Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205



PHE	THR	ASP	GLN	LEU	LEU	THR	HIS	ASP	VAL	LEU	ASP	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR

- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205



[illegible]

- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

Category	Percentage
Very good	43%
Good	5%
Not good	5%
Very bad	49%

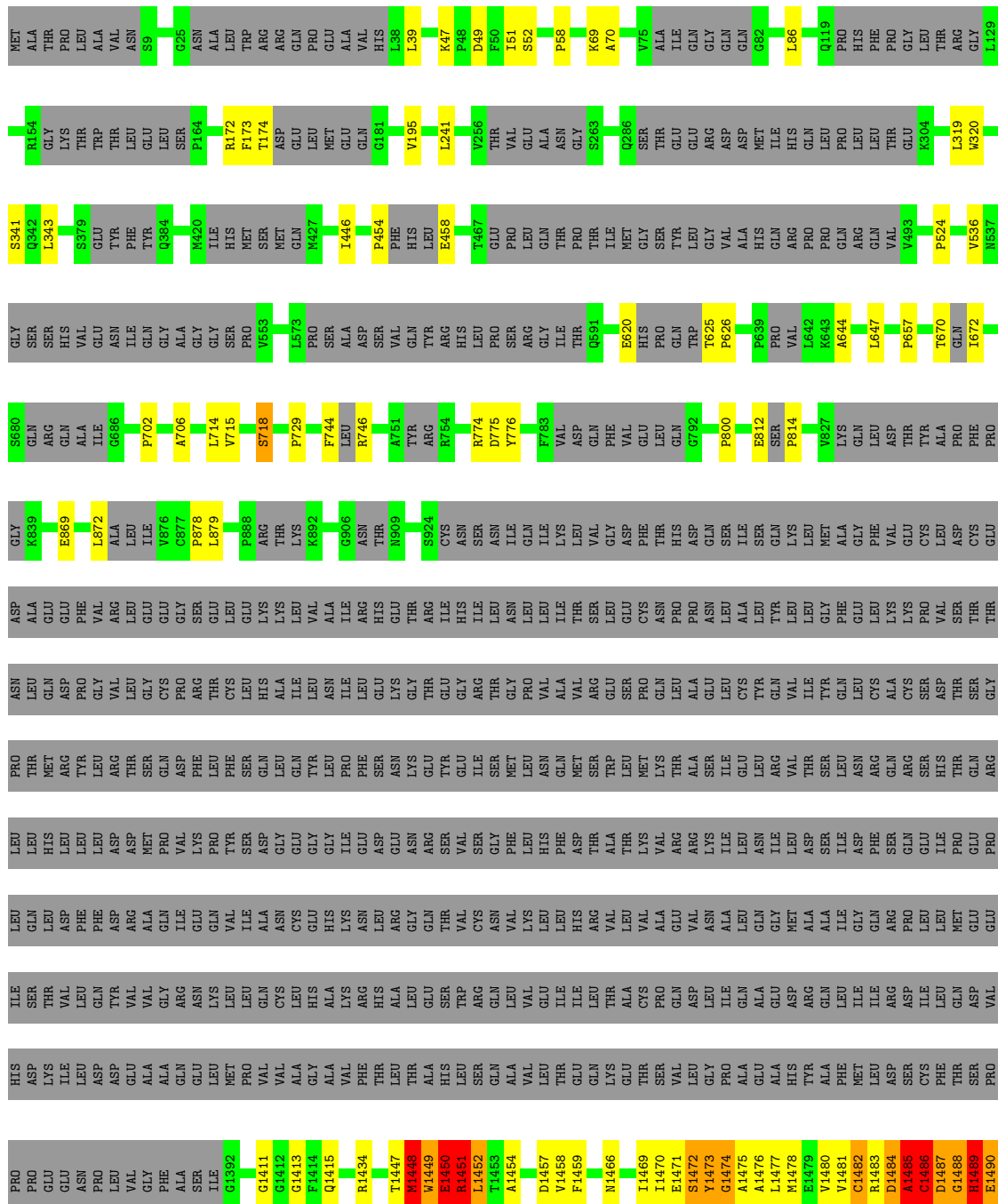


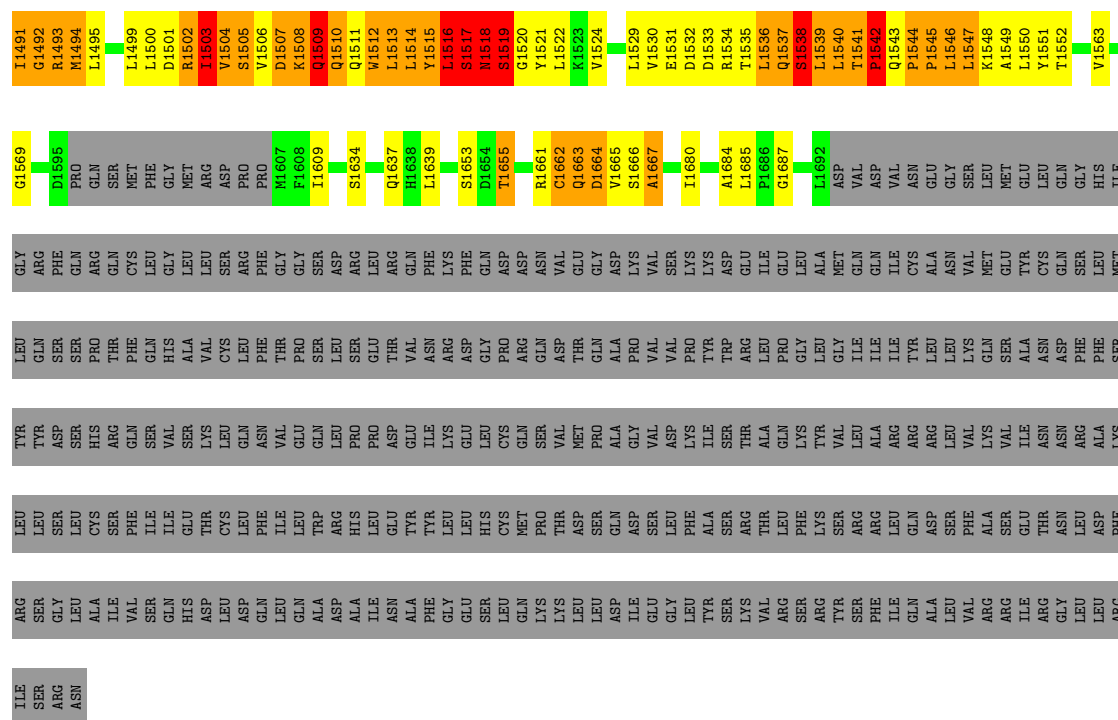




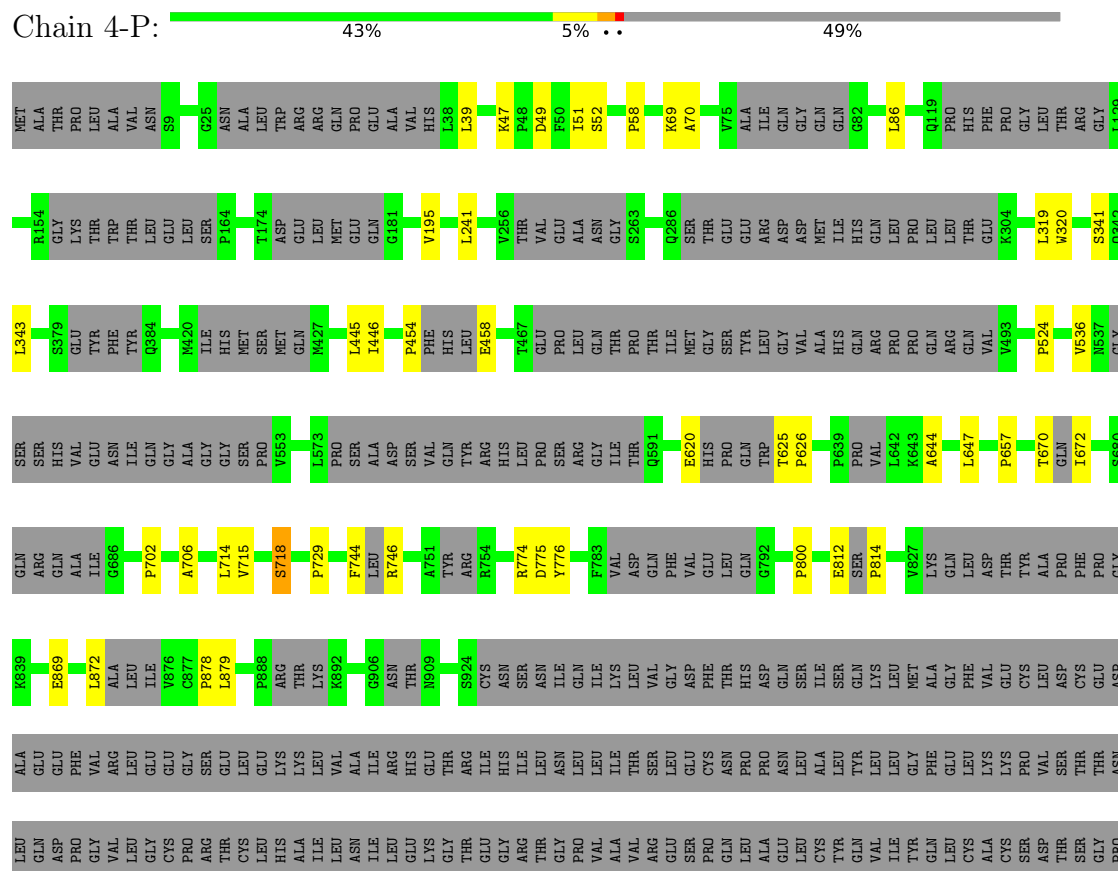
ARG
ASN

- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205



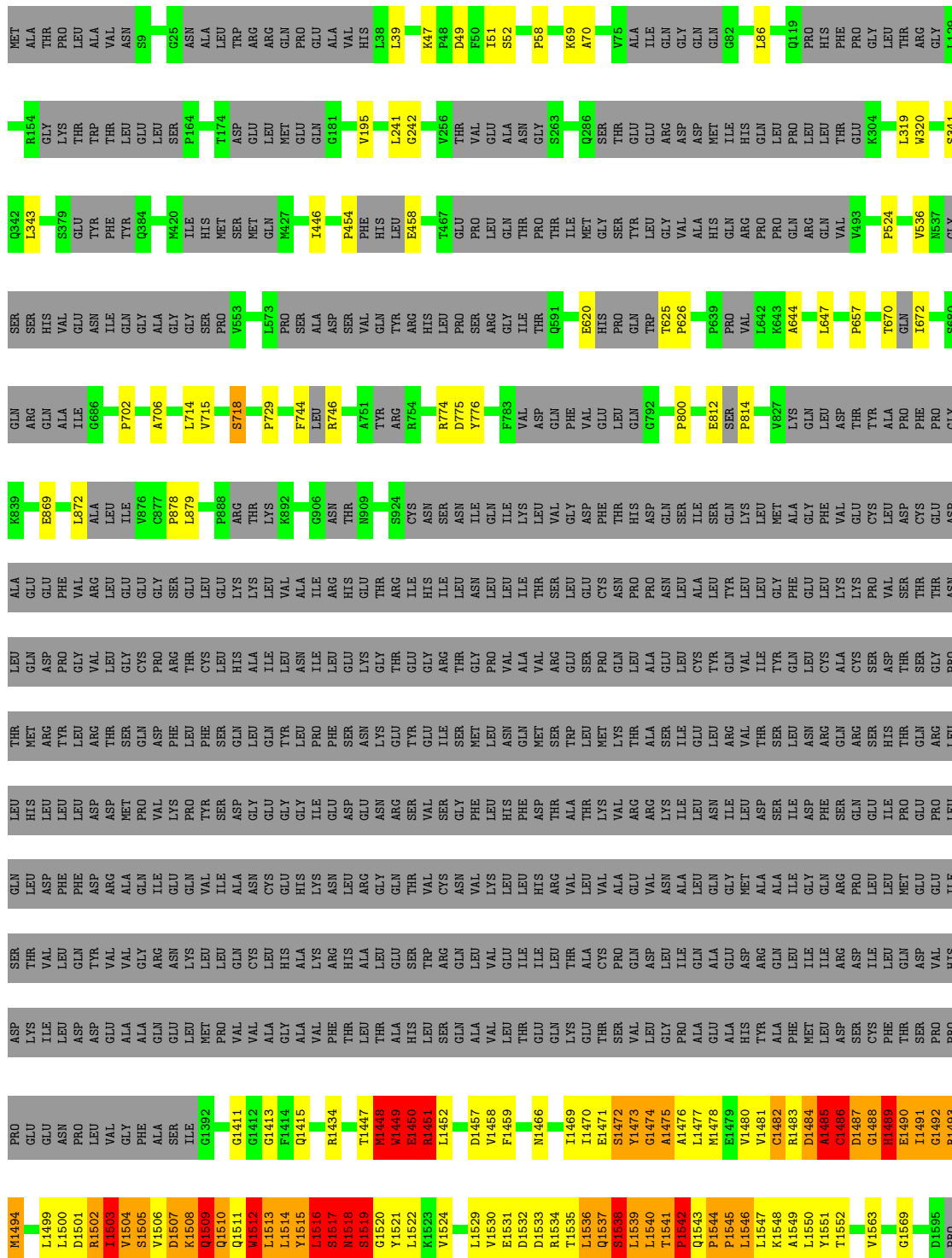


- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205



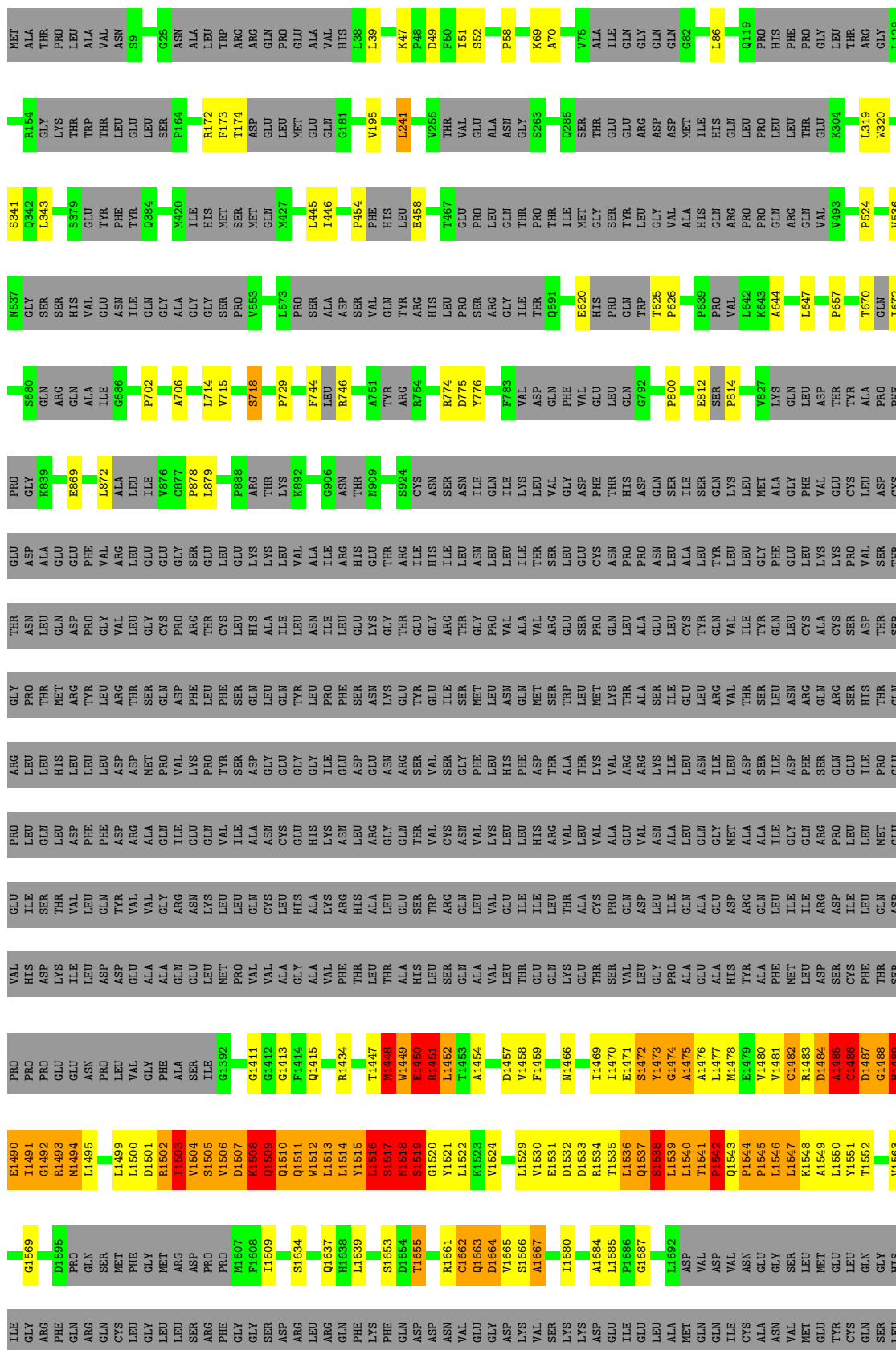
- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205





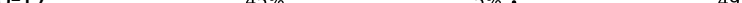
- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

Response	Percentage
Yes, a threat	43%
No, not a threat	49%
Don't know	5%
Refused to answer	2%



ARG	PHE	LYS	SER	MET
ILE	ARG	LEU	TYR	LEU
SER	GLY	SER	ASP	TYR
ASN	LEU	LEU	SER	SER
	ALA	CYS	HIS	PRO
	ILE	SER	ARG	THR
	VAL	PHE	GLN	PHE
	SER	ILE	SER	GLN
	GLN	ILE	VAL	HIS
	HIS	GLU	SER	ALA
	ASP	THR	LYS	VAL
	LEU	CYS	LEU	CYS
	ASP	LEU	GLN	LEU
	GLN	PHE	ASN	PHE
	LEU	ILE	VAL	THR
	GLN	LEU	GLU	PRO
	ALA	TRP	GLN	SER
	ASP	ARG	LEU	LEU
	ALA	HIS	PRO	SER
	ILE	LEU	PRO	GLU
	ASN	GLU	ASP	THR
	ALA	TYR	GLU	VAL
	PHE	TYR	ILE	ASN
	GLY	LEU	LYS	ARG
	GLU	LEU	GLU	ASP
	SER	HIS	LEU	GLY
	LEU	CYS	CYS	PRO
	GLN	MET	GLN	ARG
	LYS	PRO	SER	GLN
	LYS	THR	VAL	ASN
	LEU	ASP	MET	THR
	LEU	SER	PRO	GLN
	ASP	GLN	ALA	ALA
	ILE	ASP	GLY	PRO
	GLU	SER	VAL	VAL
	GLY	LEU	ASP	VAL
	LEU	PHE	LYS	PRO
	TYR	ALA	ILE	TYR
	SER	SER	SER	TRP
	LYS	ARG	THR	ARG
	VAL	THR	ALA	LEU
	ARG	LEU	GLN	PRO
	SER	PHE	LYS	GLY
	ARG	LYS	TYR	LEU
	TYR	SER	VAL	GLY
	SER	ARG	LEU	ILE
	PHE	ARG	ALA	ILE
	ILE	LEU	ARG	ILE
	GLN	GLN	ARG	TVR
	ALA	ASP	ARG	LEU
	LEU	SER	LEU	LEU
	VAL	PHE	VAL	LYS
	ARG	ALA	LYS	GLN
	ARG	SER	VAL	SER
	ILE	GLU	ILE	ALA
	ARG	THR	ASN	ASN
	GLY	ASN	ASP	ASP
	LEU	LEU	ARG	PHE
	LEU	ASP	ALA	PHE

- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

Chain 6-D:  45% 5% • 49%

[illegible]

[illegible]

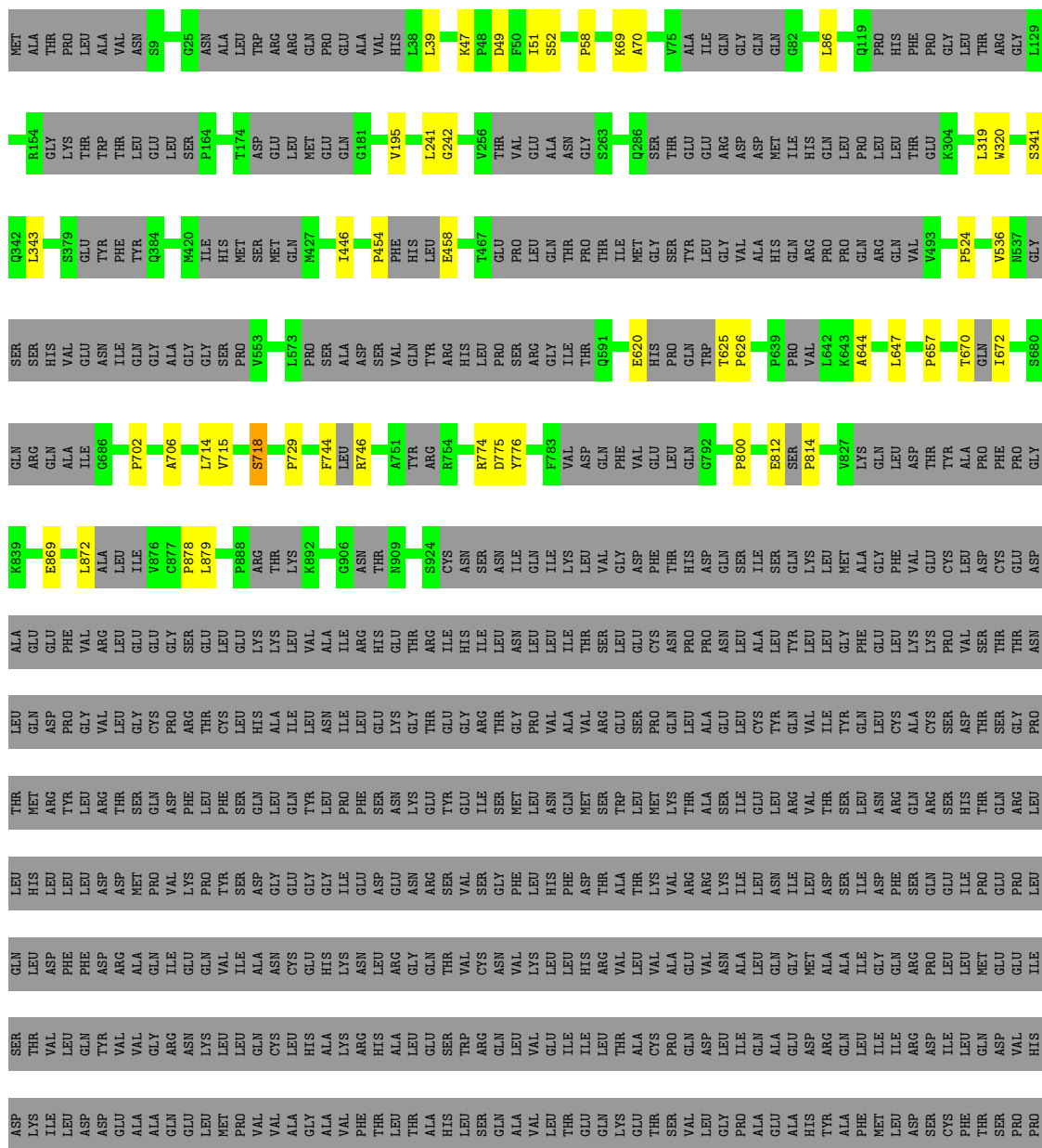
- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

Response	Percentage
Yes, the U.S. is a democracy	45%
No, the U.S. is not a democracy	5%
Don't know	49%



[illegible]

Chain 7-D: 43% 5% .. 49%



PRO	GLU	GLU	ASN	PRO	LEU	VAL	GLY	PHE	SER	ASP	SER	GLN	M1494
GLU	ASN	ASN	ASN	THR	THR	VAL	ALA	GLN	PRO	HIS	CYS	SER	L1499
PRO	LEU	LEU	LEU	PHE	SER	ILE	VAL	GLN	PHE	GLN	ILE	GLY	L1500
VAL	GLY	GLY	ALA	SER	VAL	GLY	GLN	LEU	GLN	SER	ASP	ARG	R1501
PHE	ALA	ALA	ALA	THR	THR	THR	THR	THR	THR	THR	THR	THR	R1502
ILE	ILE	ILE	ILE	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	I1503
GLY	GLY	GLY	GLY	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	V1504
ALA	ALA	ALA	ALA	CYS	CYS	CYS	CYS	CYS	CYS	CYS	CYS	CYS	S1505
SER	SER	SER	SER	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	D1507
ILE	ILE	ILE	ILE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	K1508
G1392	G1392	G1392	G1392	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	Q1509
G1411	G1411	G1411	G1411	SER	SER	SER	SER	SER	SER	SER	SER	SER	Q1510
G1412	G1412	G1412	G1412	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	Q1511
G1413	G1413	G1413	G1413	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	GLU	M1512
F1414	F1414	F1414	F1414	THR	THR	THR	THR	THR	THR	THR	THR	THR	L1513
Q1415	Q1415	Q1415	Q1415	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	L1514
R1434	R1434	R1434	R1434	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	Y1515
T1447	T1447	T1447	T1447	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	L1516
M1448	M1448	M1448	M1448	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	S1517
M1449	M1449	M1449	M1449	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	M1518
E1450	E1450	E1450	E1450	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	R1519
R1451	R1451	R1451	R1451	THR	THR	THR	THR	THR	THR	THR	THR	THR	G1520
L1452	L1452	L1452	L1452	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	L1522
D1457	D1457	D1457	D1457	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	K1523
V1458	V1458	V1458	V1458	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	V1524
F1459	F1459	F1459	F1459	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	ALA	L1529
M1466	M1466	M1466	M1466	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	PRO	V1530
I1469	I1470	I1470	I1470	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	E1531
I1470	I1471	I1471	I1471	THR	THR	THR	THR	THR	THR	THR	THR	THR	D1532
S1472	S1472	S1472	S1472	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	D1533
Y1473	Y1473	Y1473	Y1473	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	R1534
G1474	G1474	G1474	G1474	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	T1535
A1475	A1475	A1475	A1475	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	L1536
A1476	A1476	A1476	A1476	ILE	ILE	ILE	ILE	ILE	ILE	ILE	ILE	ILE	Q1537
L1477	L1477	L1477	L1477	THR	THR	THR	THR	THR	THR	THR	THR	THR	S1538
M1478	M1478	M1478	M1478	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	R1539
E1479	E1479	E1479	E1479	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	L1540
V1480	V1480	V1480	V1480	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	GLN	T1541
V1481	V1481	V1481	V1481	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	P1542
C1482	C1482	C1482	C1482	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	Q1543
R1483	R1483	R1483	R1483	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	VAL	P1544
D1484	D1484	D1484	D1484	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	LYS	P1545
A1485	A1485	A1485	A1485	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	L1546
C1486	C1486	C1486	C1486	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	L1547
D1487	D1487	D1487	D1487	ILE	ILE	ILE	ILE	ILE	ILE	ILE	ILE	ILE	K1548
G1488	G1488	G1488	G1488	THR	THR	THR	THR	THR	THR	THR	THR	THR	A1549
E1489	E1489	E1489	E1489	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	ASN	L1550
I1490	I1490	I1490	I1490	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	ASP	Y1551
I1491	I1491	I1491	I1491	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	PHE	T1552
G1492	G1492	G1492	G1492	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	LEU	V1563
I1493	I1493	I1493	I1493	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	ARG	G1569
I1494	I1494	I1494	I1494	SER	SER	SER	SER	SER	SER	SER	SER	SER	D1595
I1495	I1495	I1495	I1495	THR	THR	THR	THR	THR	THR	THR	THR	THR	PRO

● Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

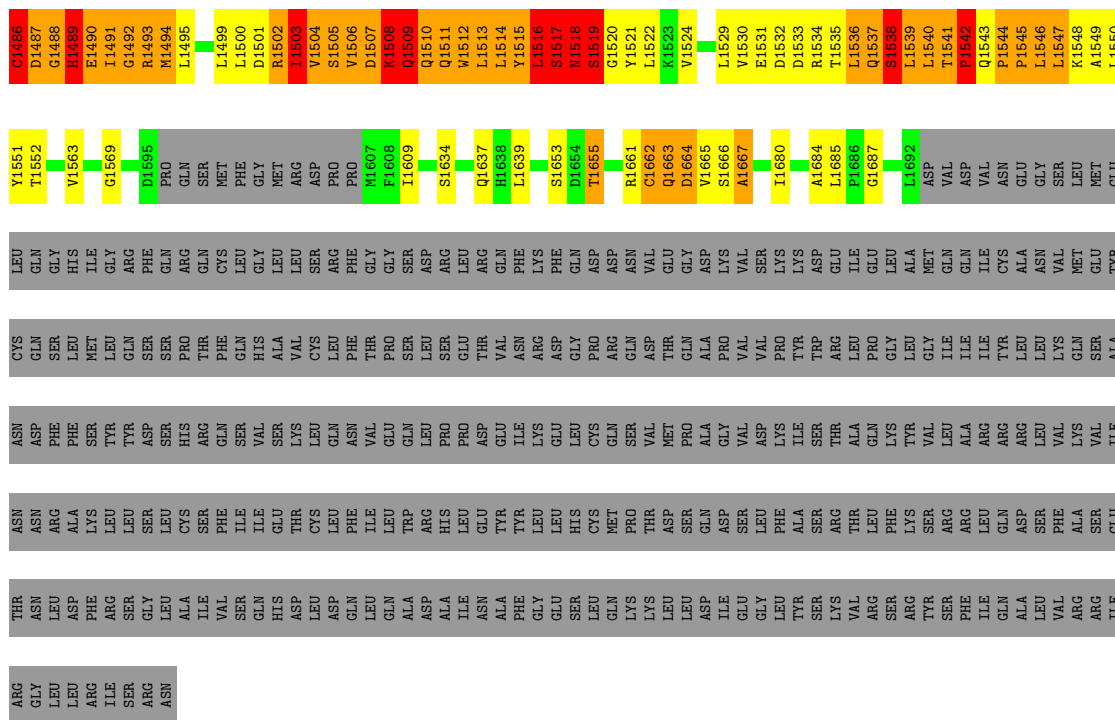
Chain 7-J:  43% 5% 49%

LEU	ASP	CYS	PHE	PRO	GLY	ALA	GLU	PHE	VAL	ARG	LEU	GLU	GLY	LEU	GLY	LEU	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY	THR	LYS	LYS	VAL	ALA	ILE	ASN	GLY</

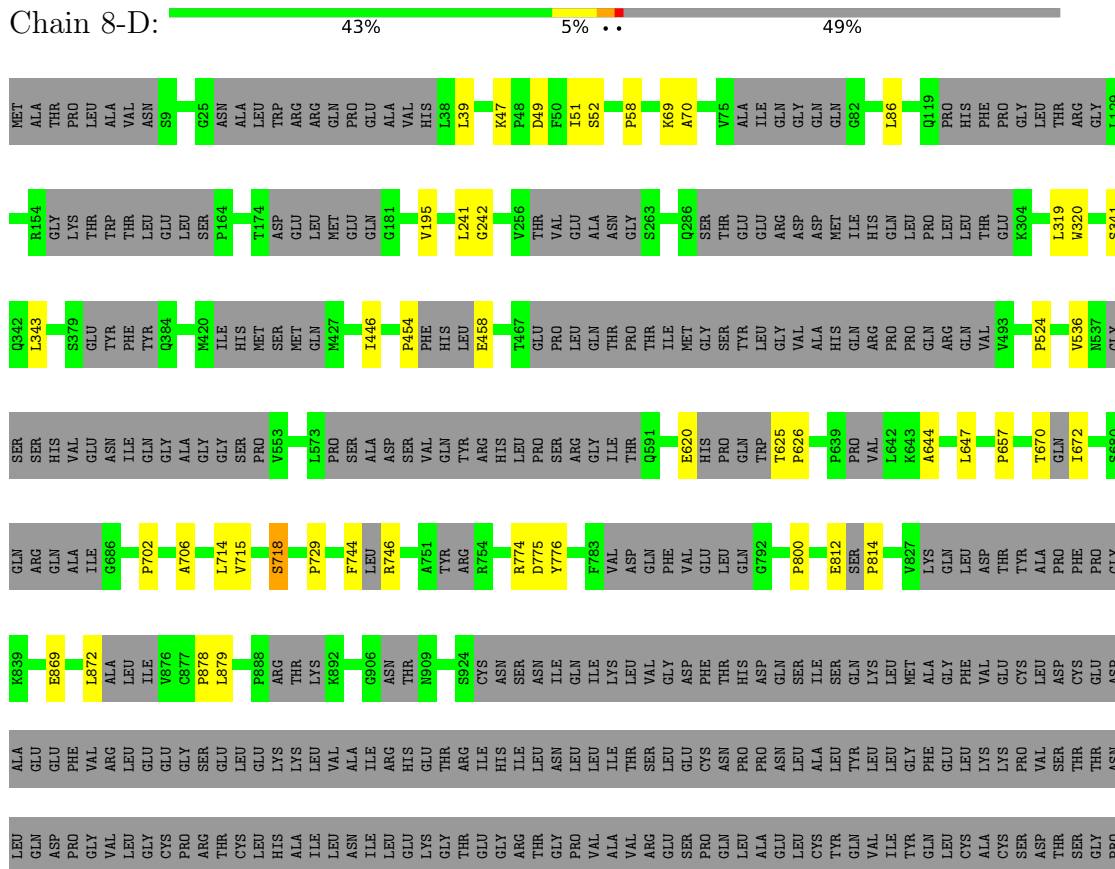
- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205







- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

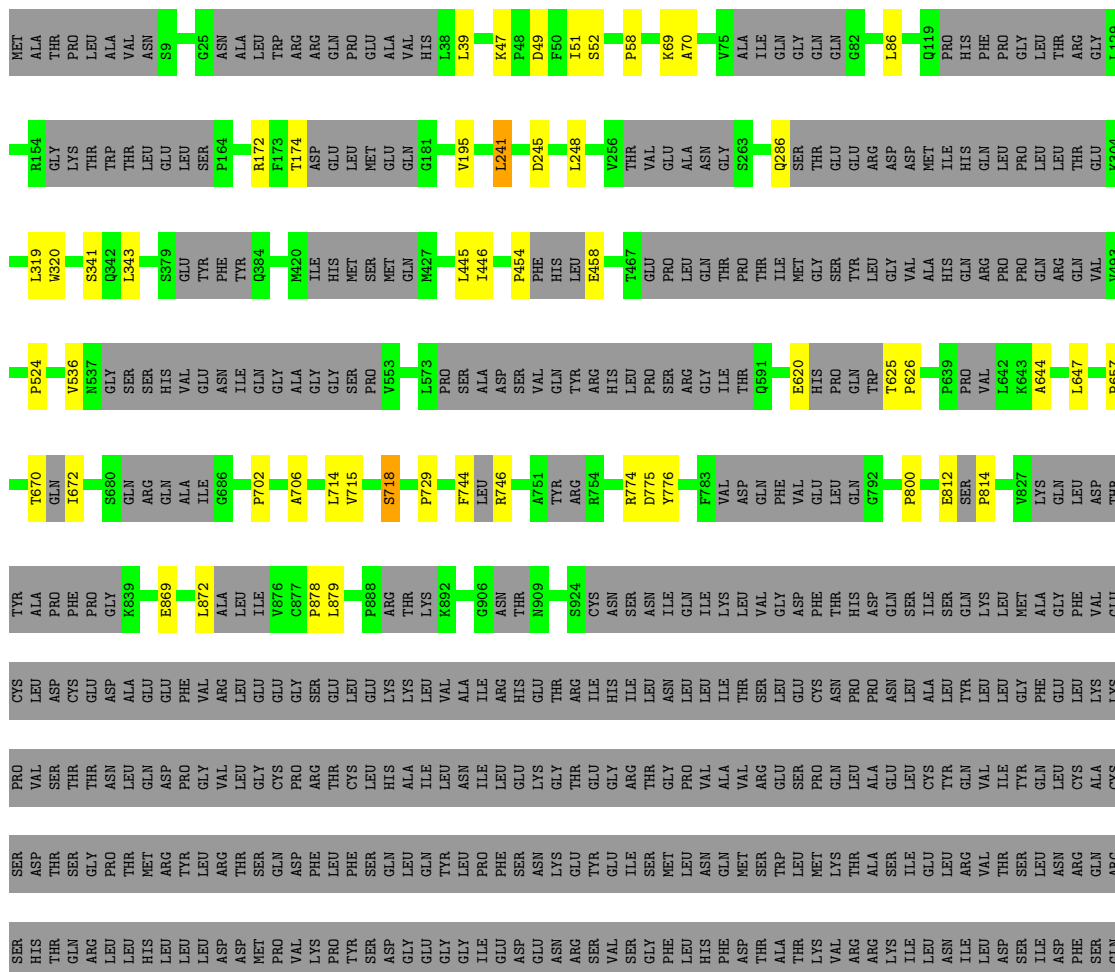


- Molecule 3: NUCLEAR PORE COMPLEX PROTEIN NUP205

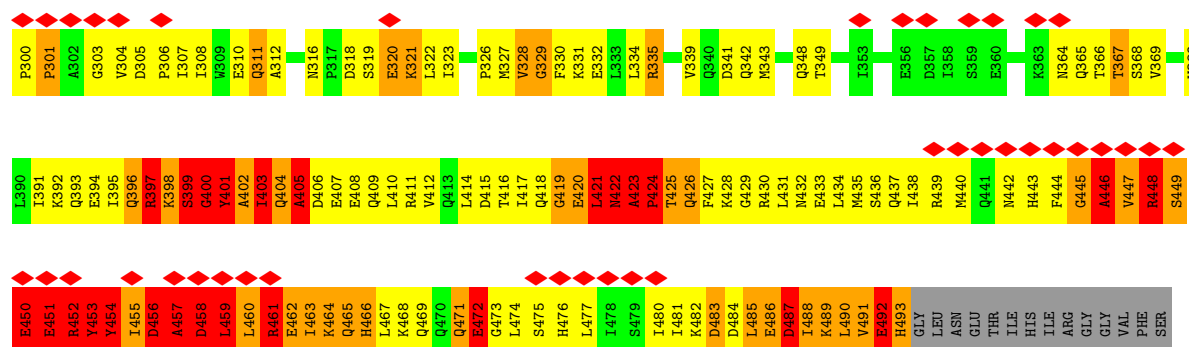


Chain 8-P: 43% 5% .. 49%

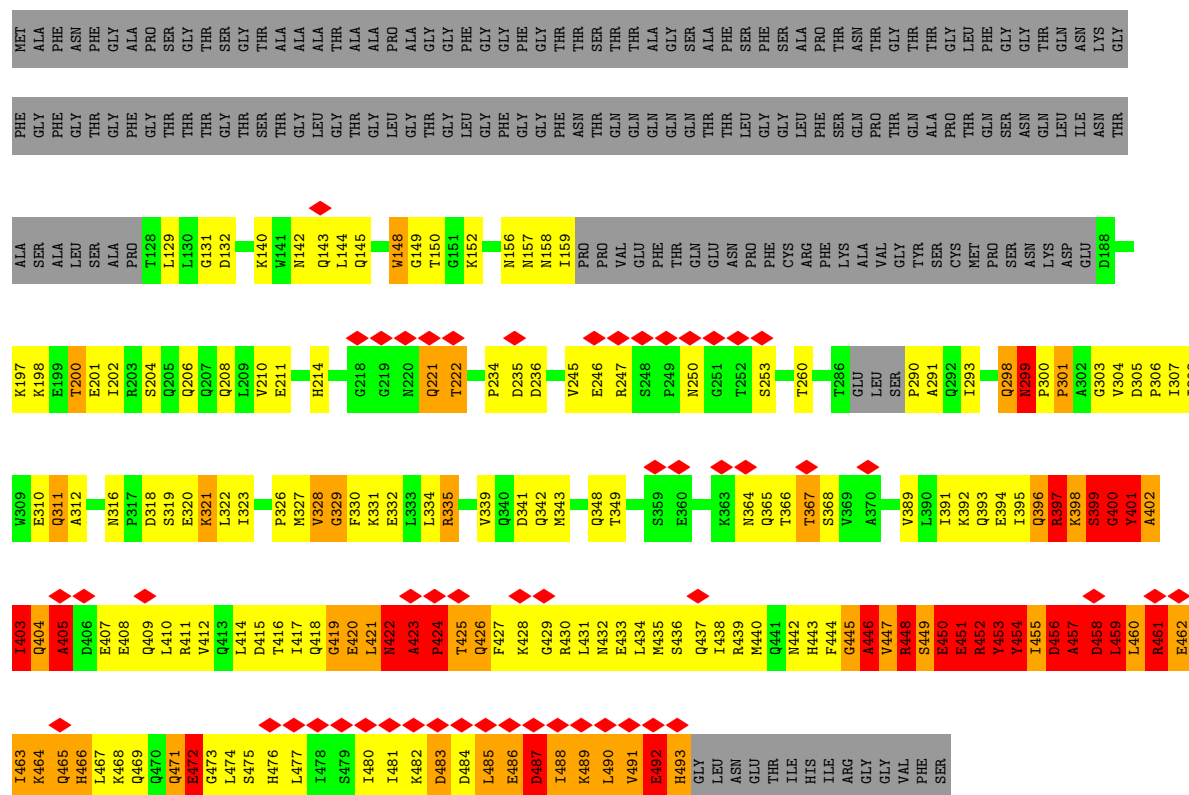
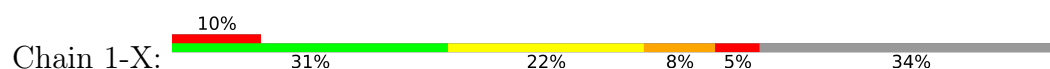




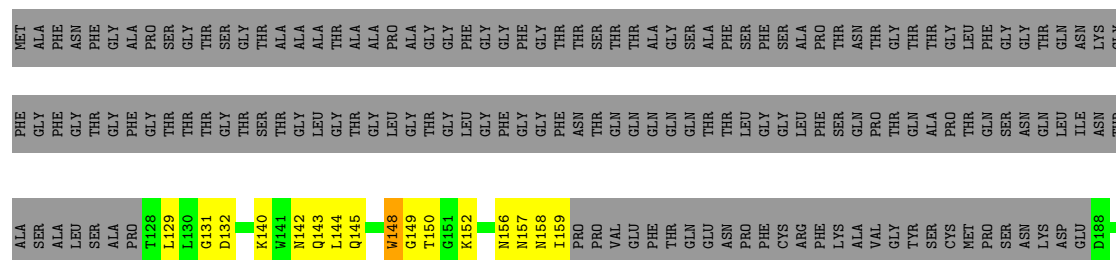




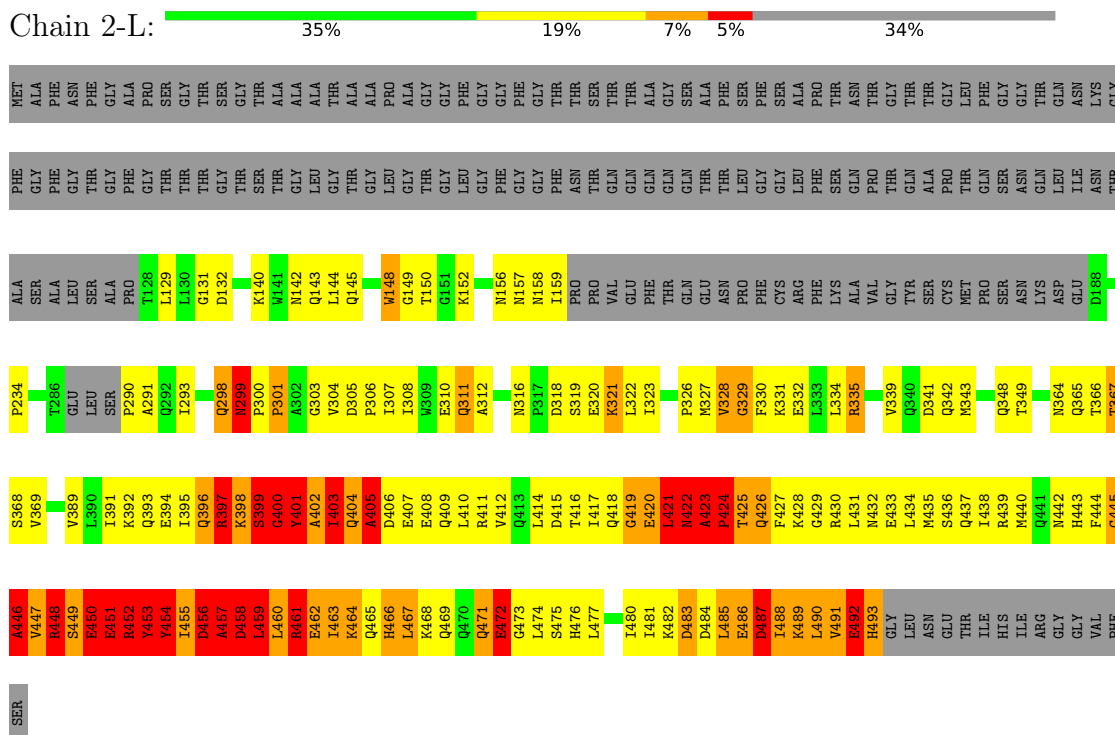
• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54



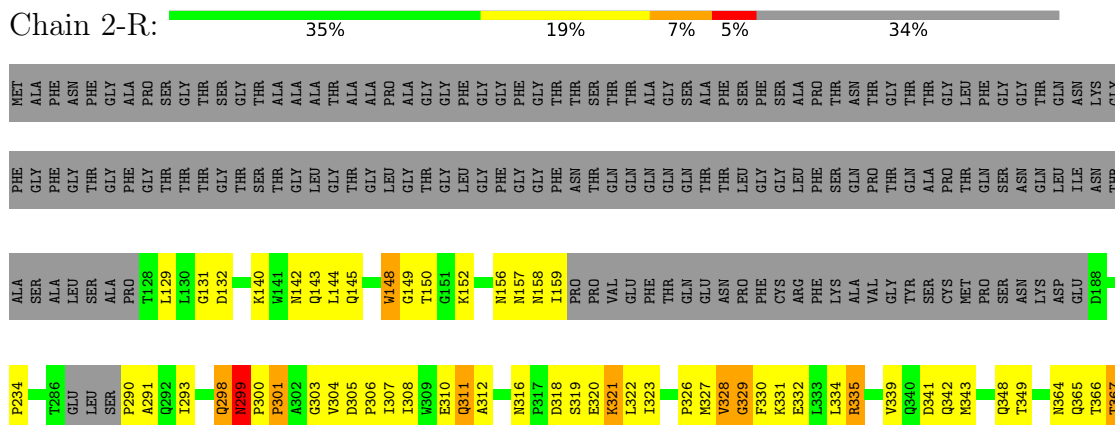
• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

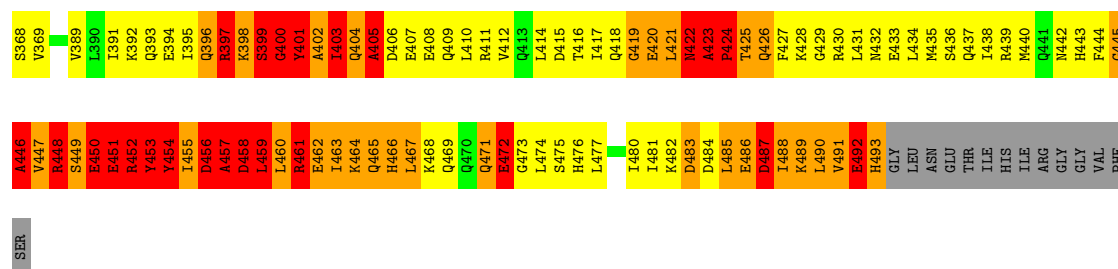


- Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

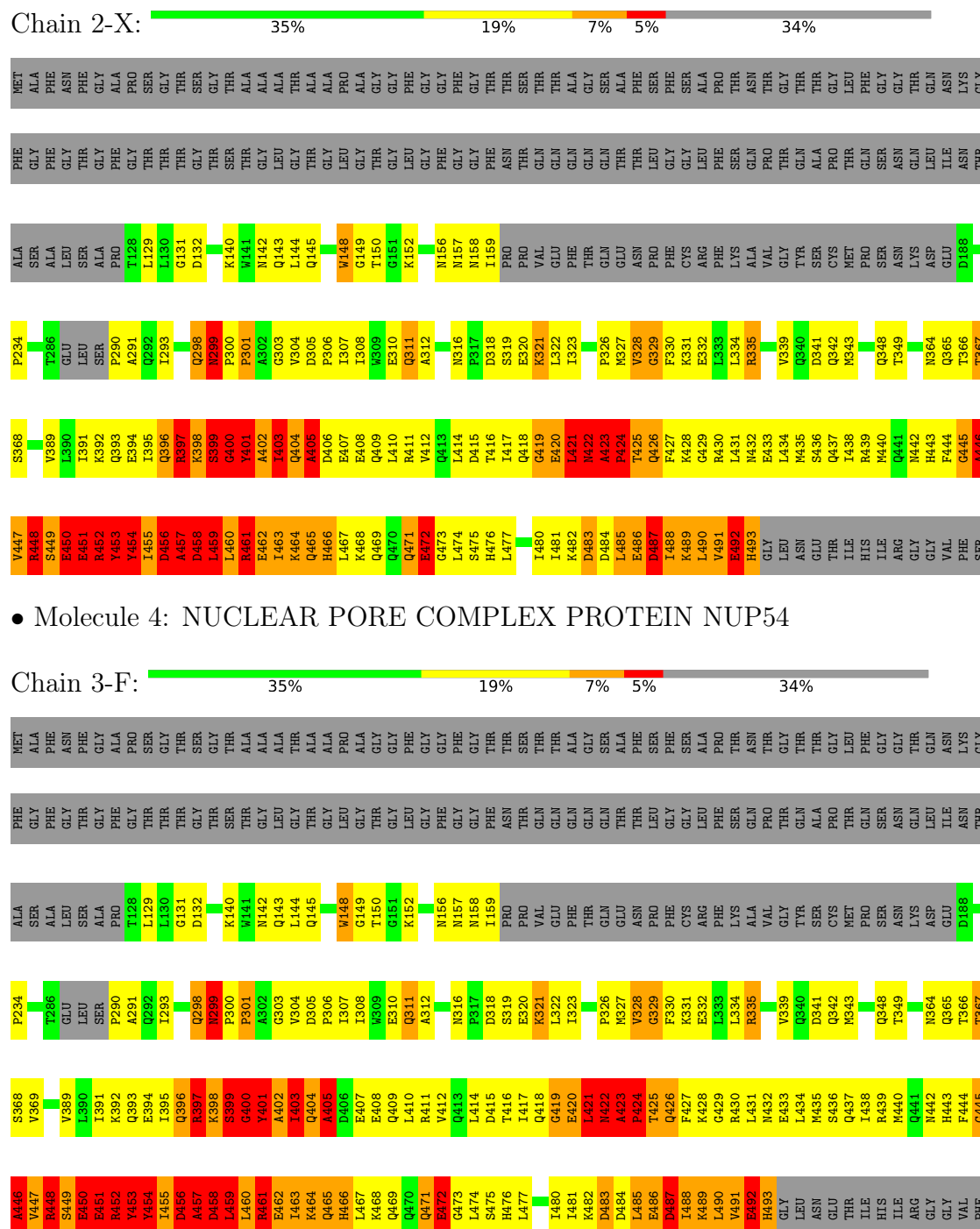


- Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

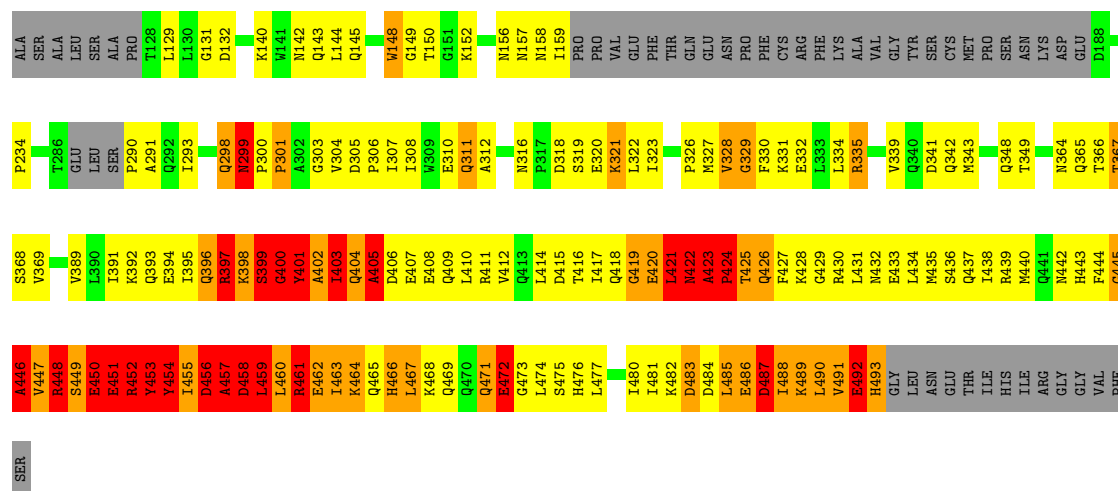




• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

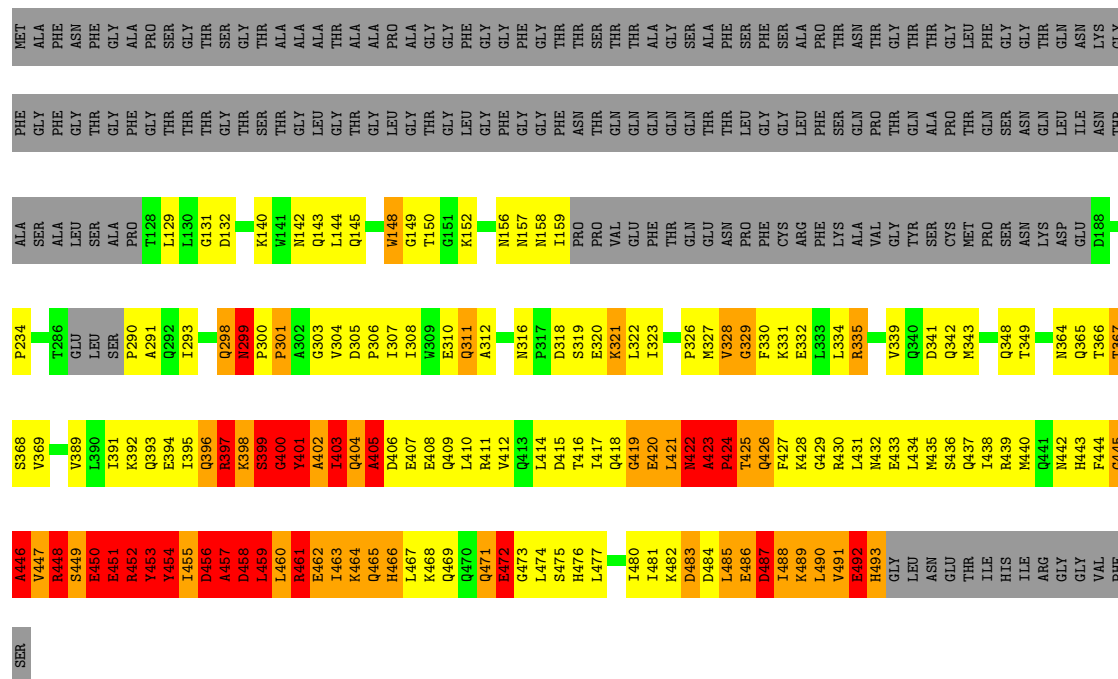






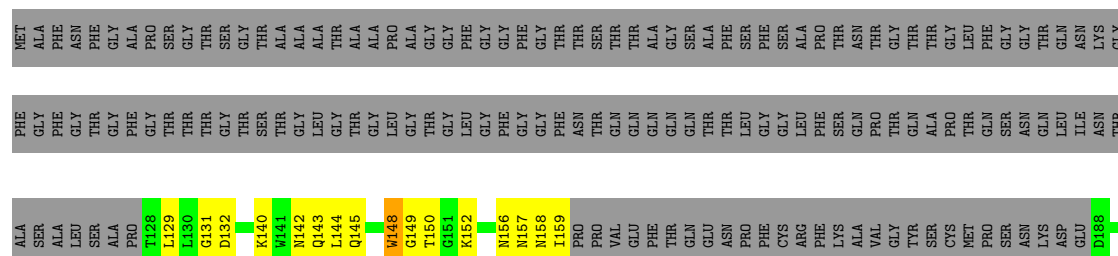
• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

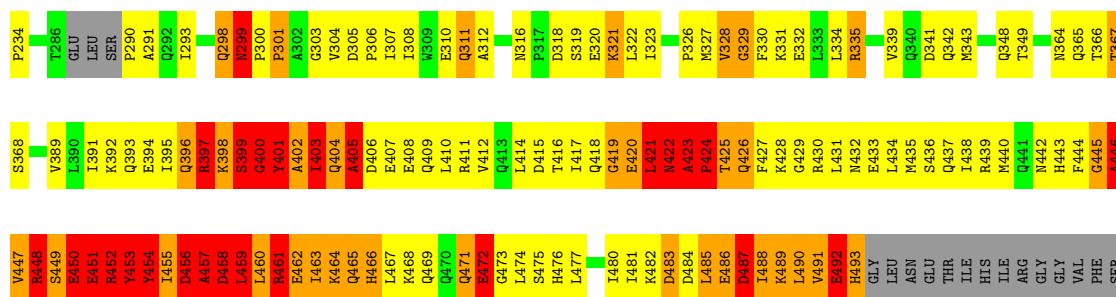
Chain 4-R: 35% 19% 7% 5% 34%



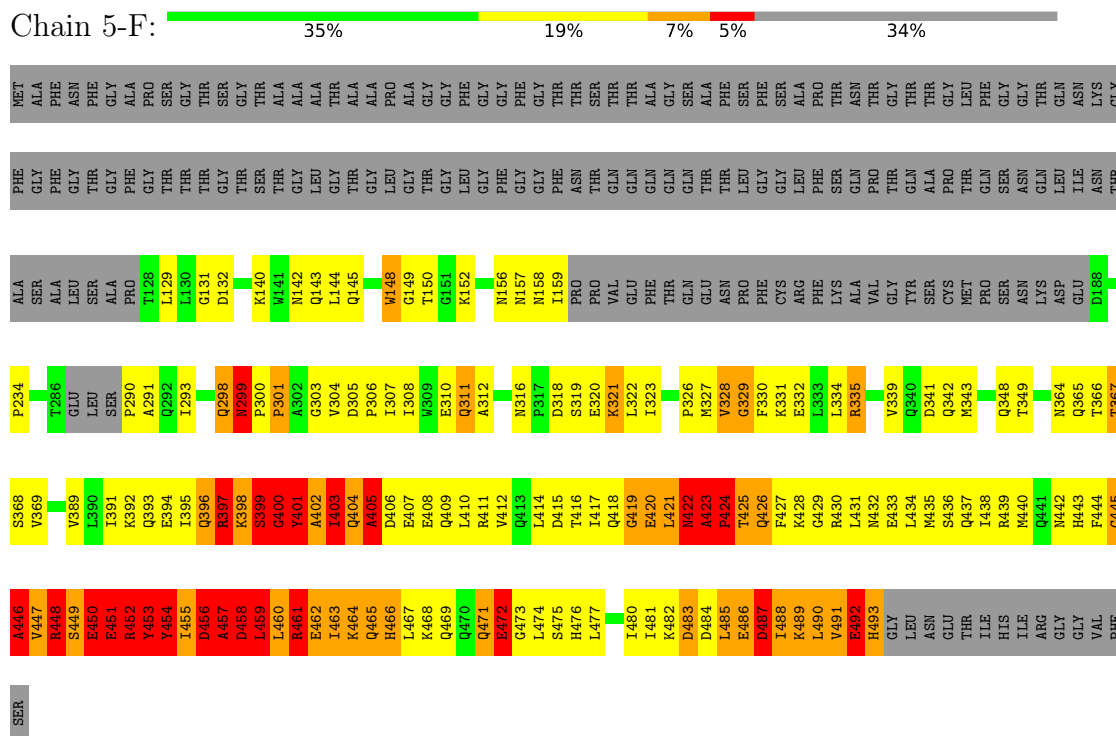
• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

Chain 4-X: 35% 19% 7% 5% 34%

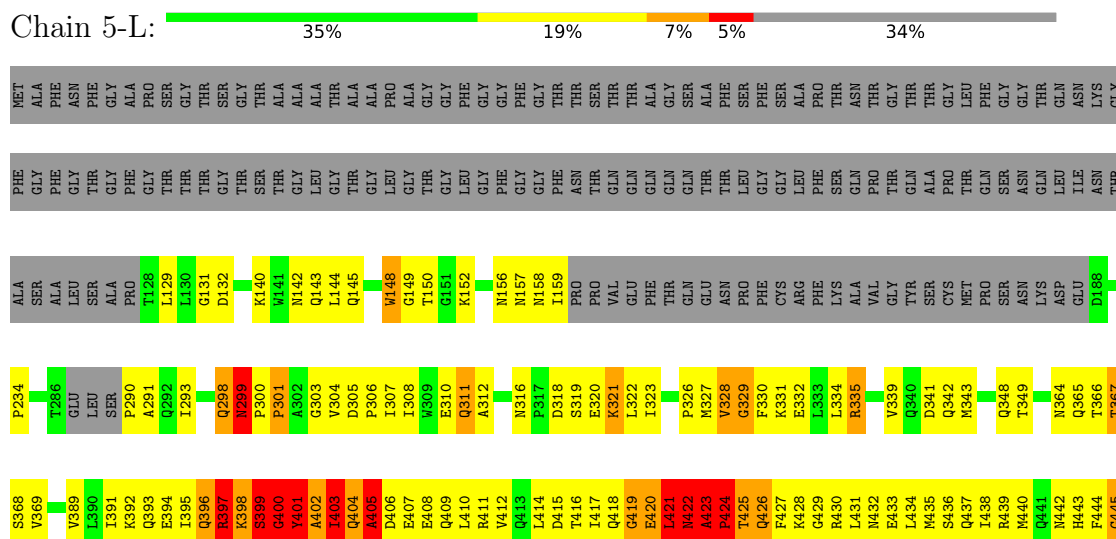


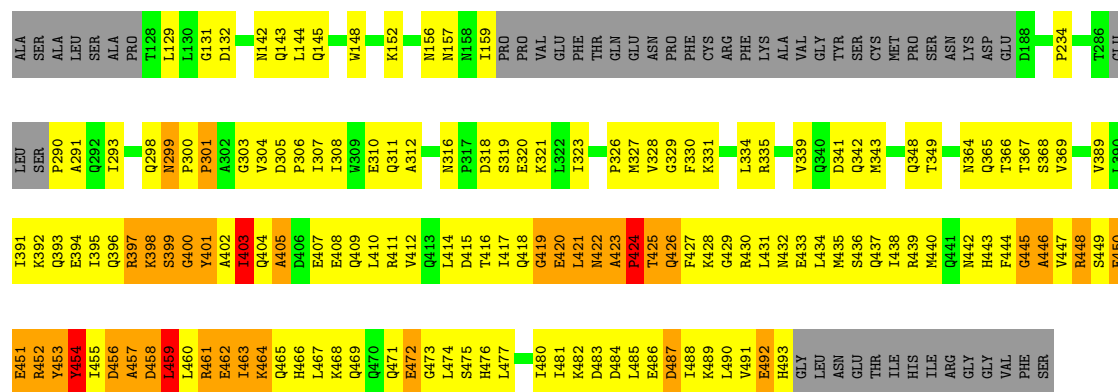


• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

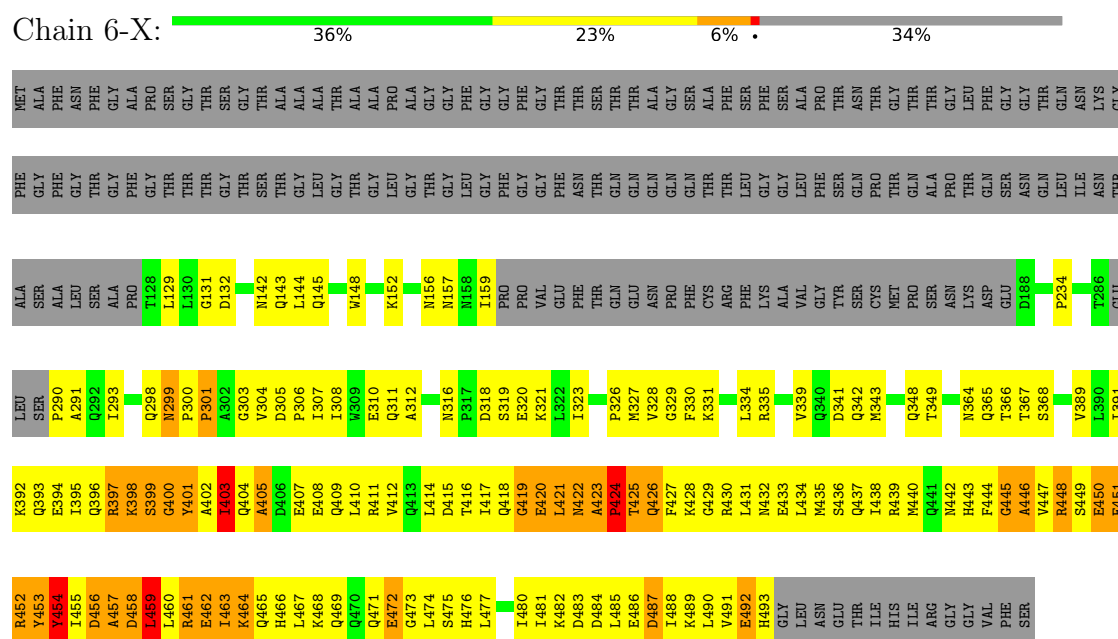


• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

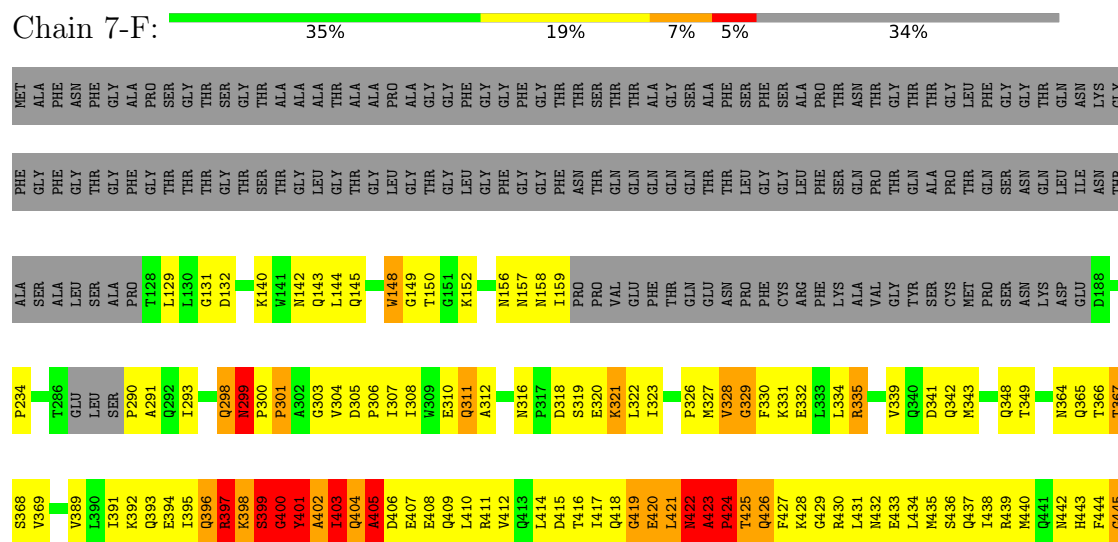




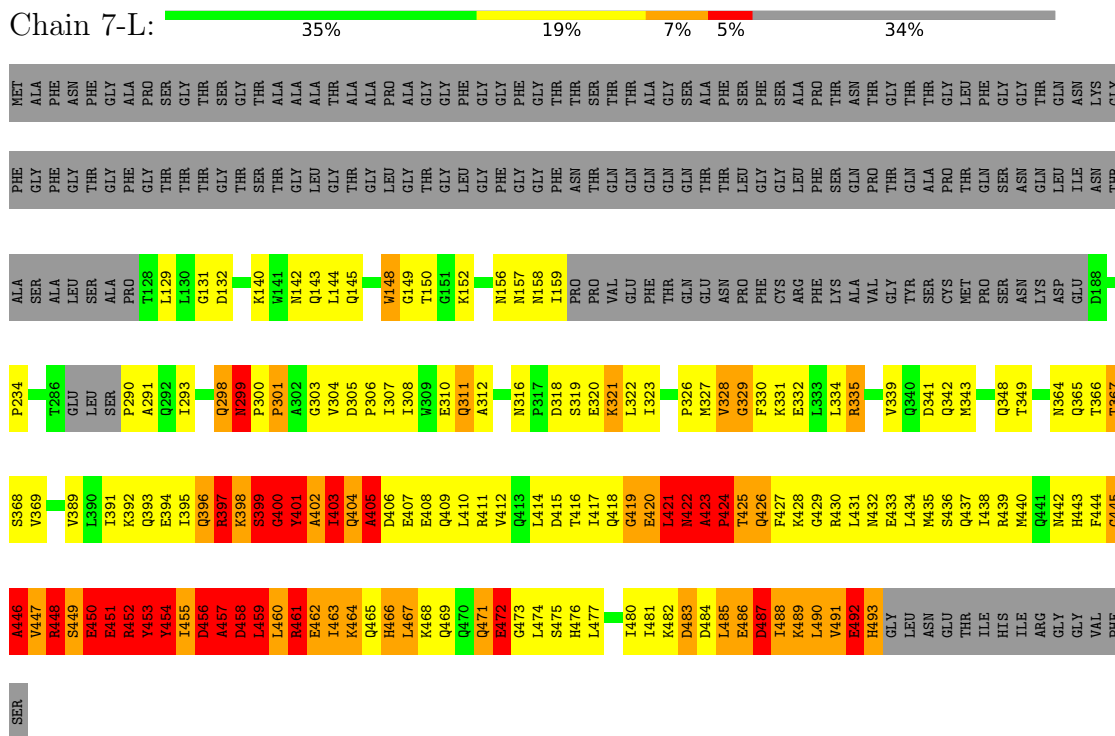
- Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54



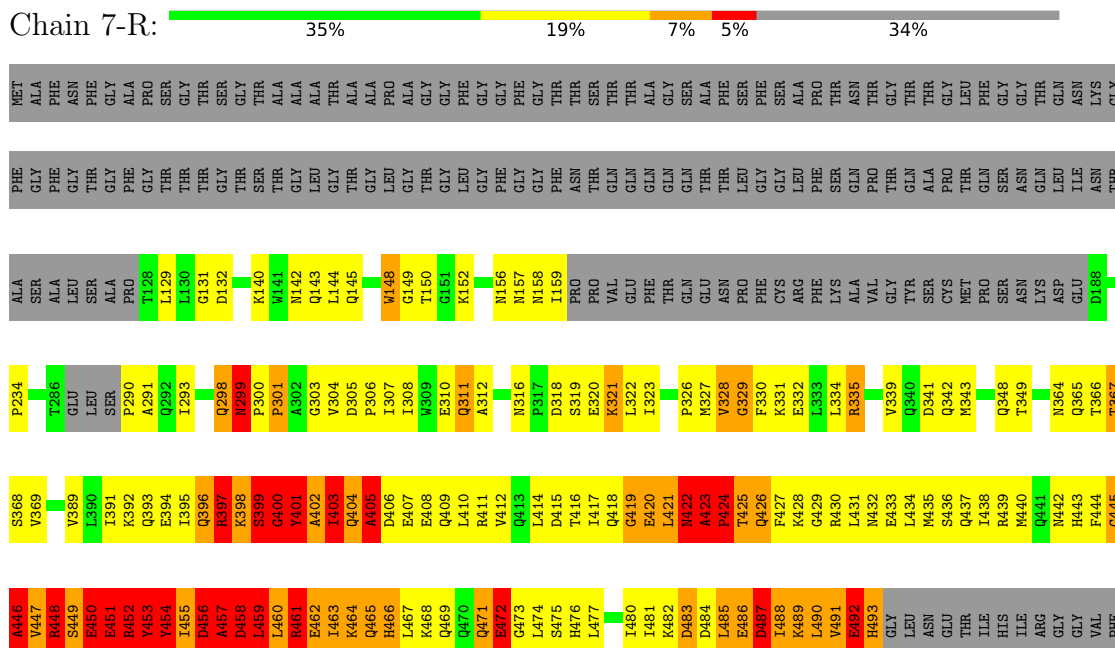
- Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54



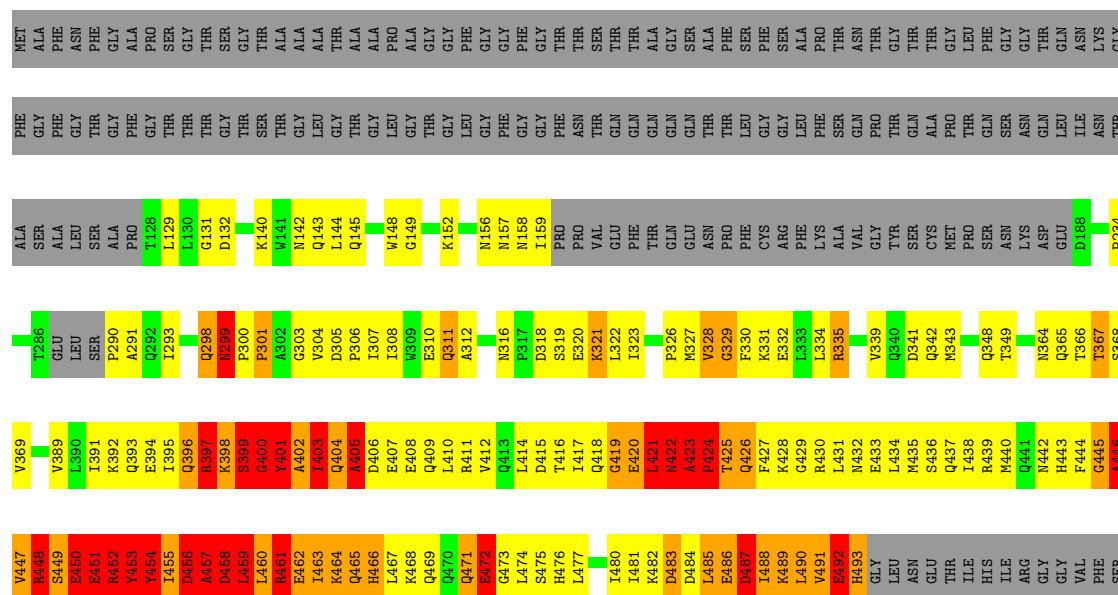
- Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54



- Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

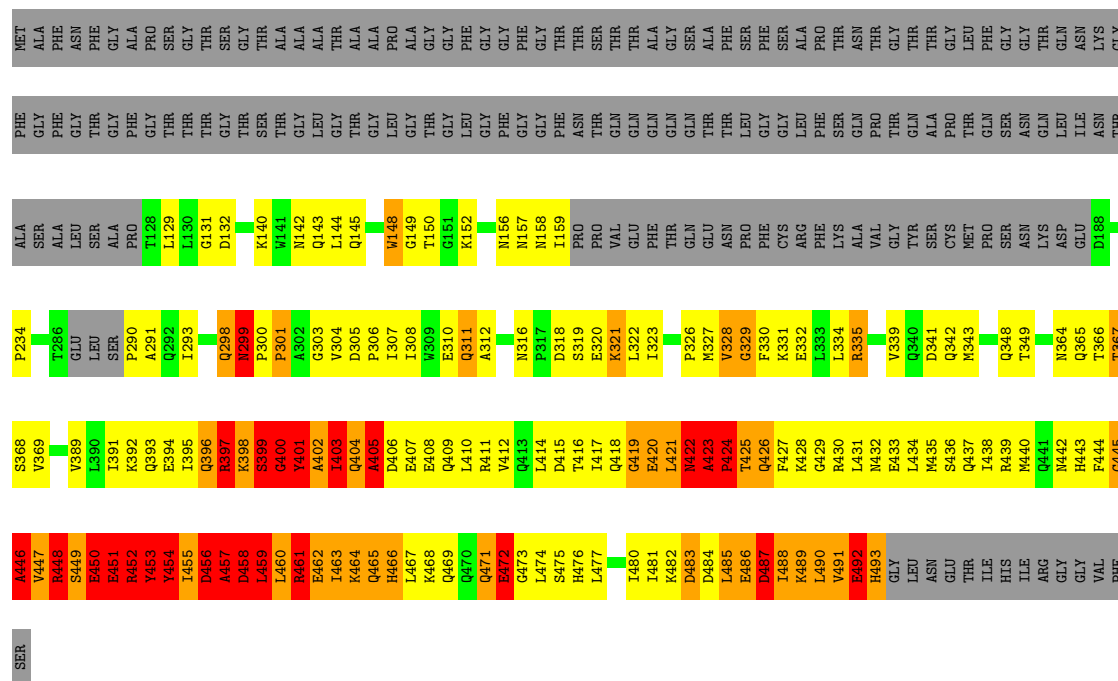






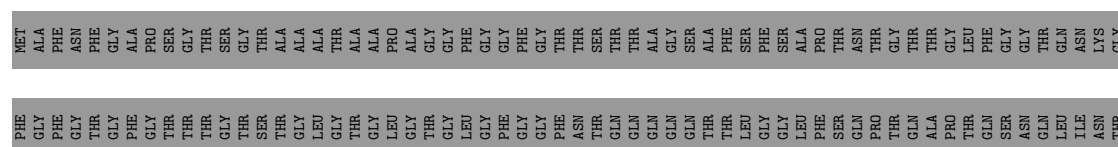
• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

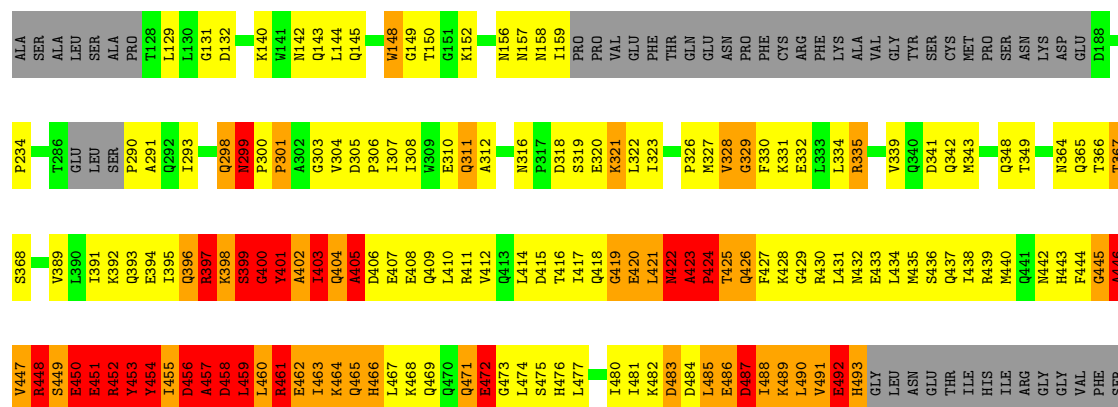
Chain 8-R: 35% 19% 7% 5% 34%



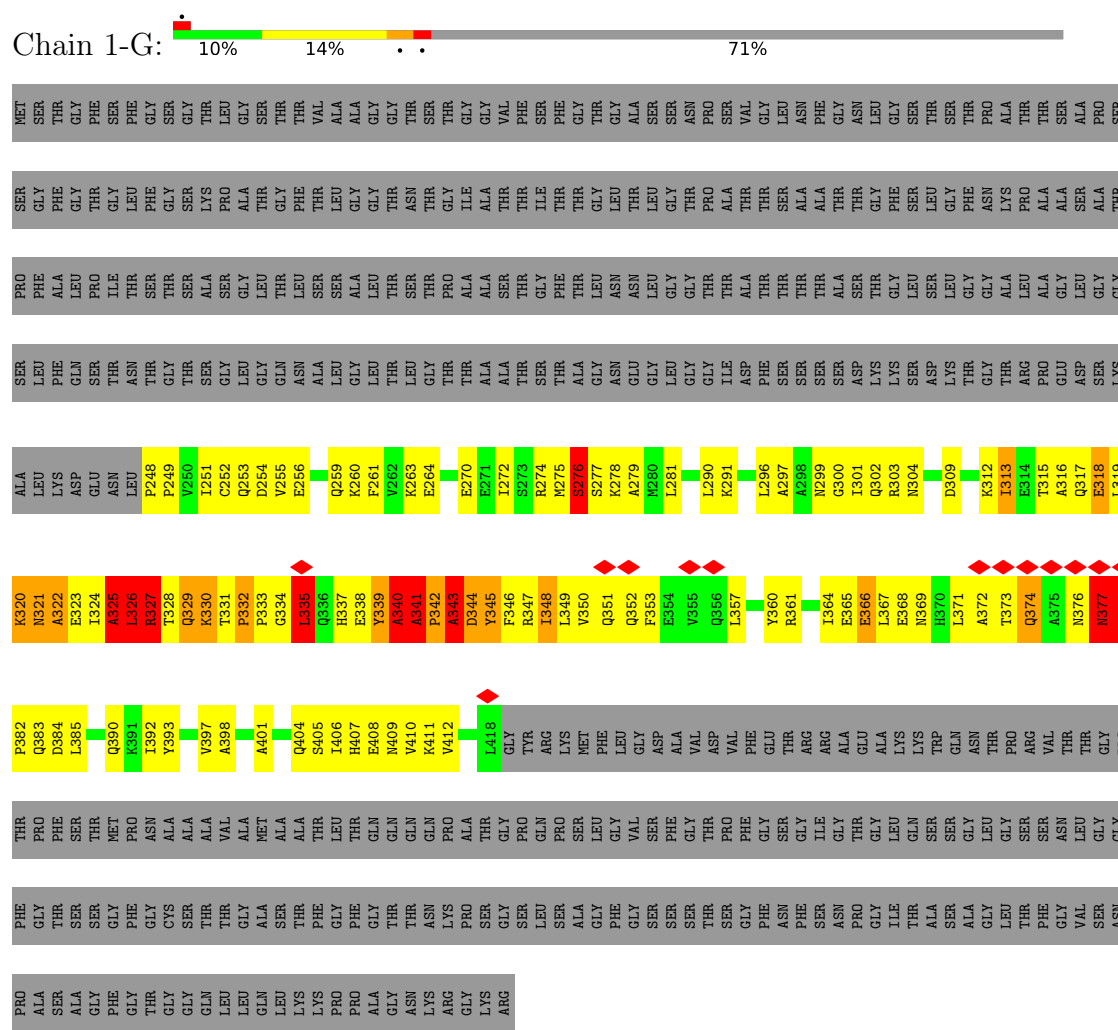
• Molecule 4: NUCLEAR PORE COMPLEX PROTEIN NUP54

Chain 8-X: 35% 19% 7% 5% 34%

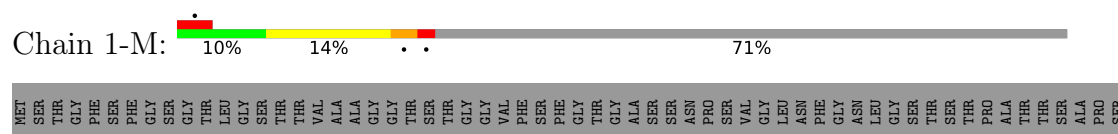


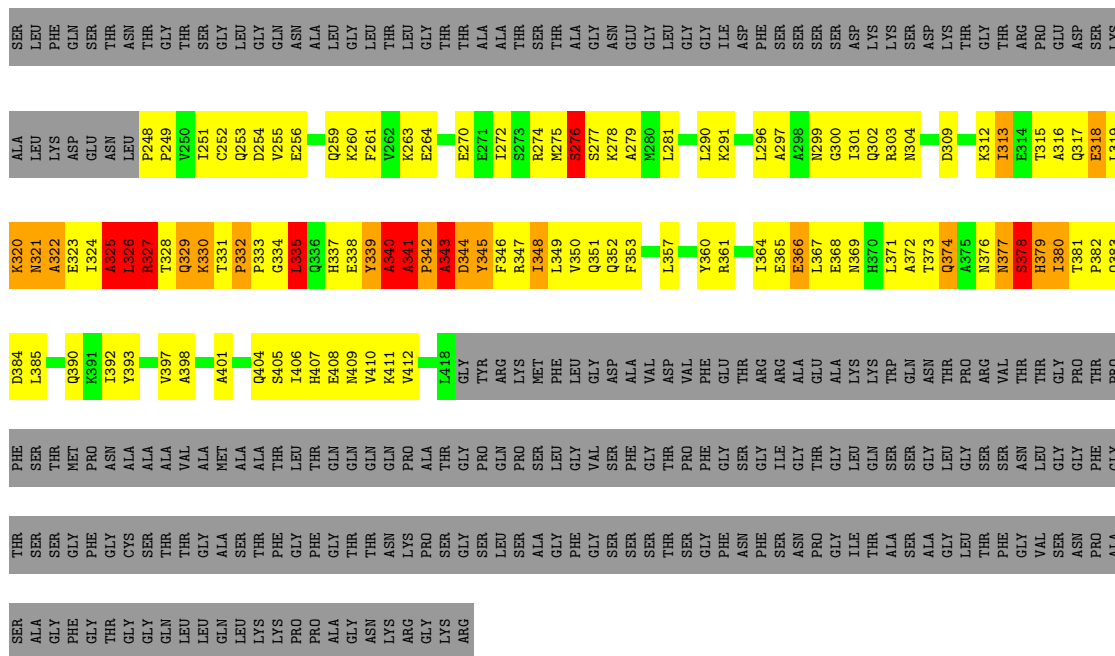


● Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58

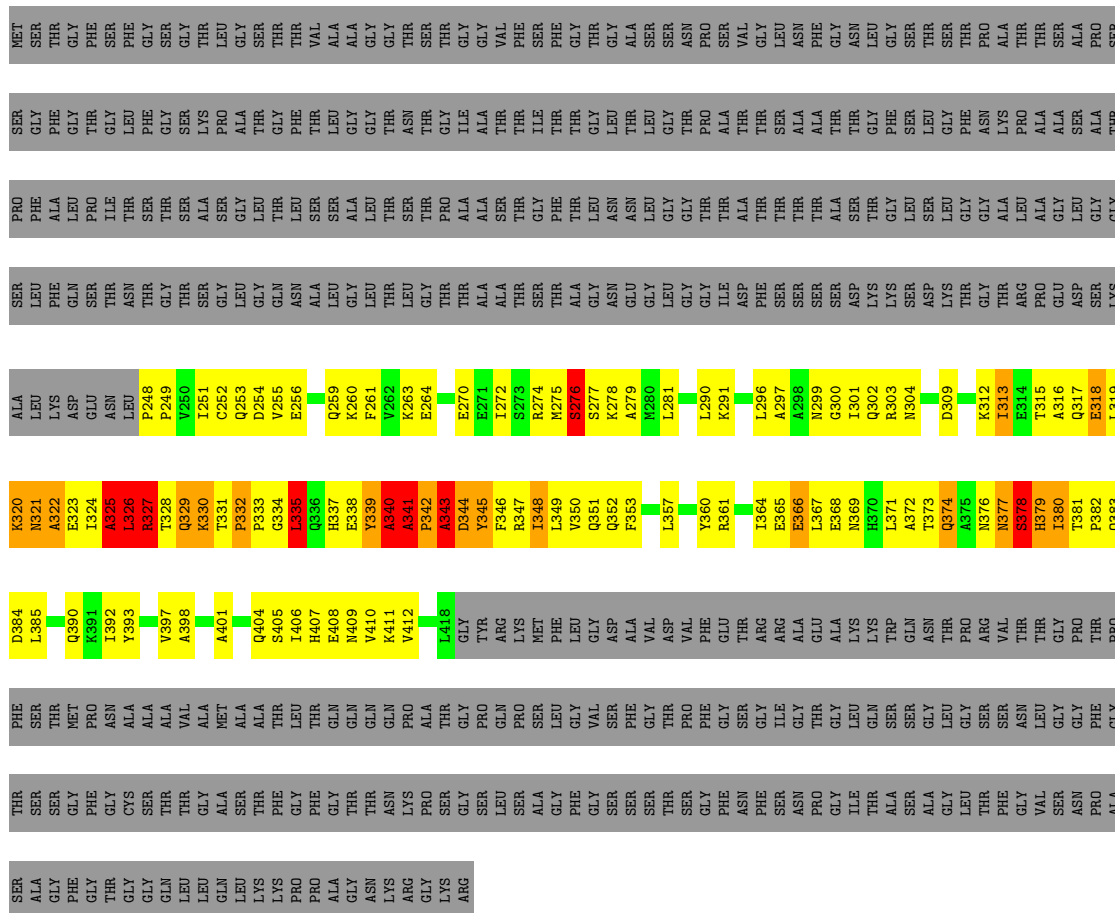


● Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58





- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58

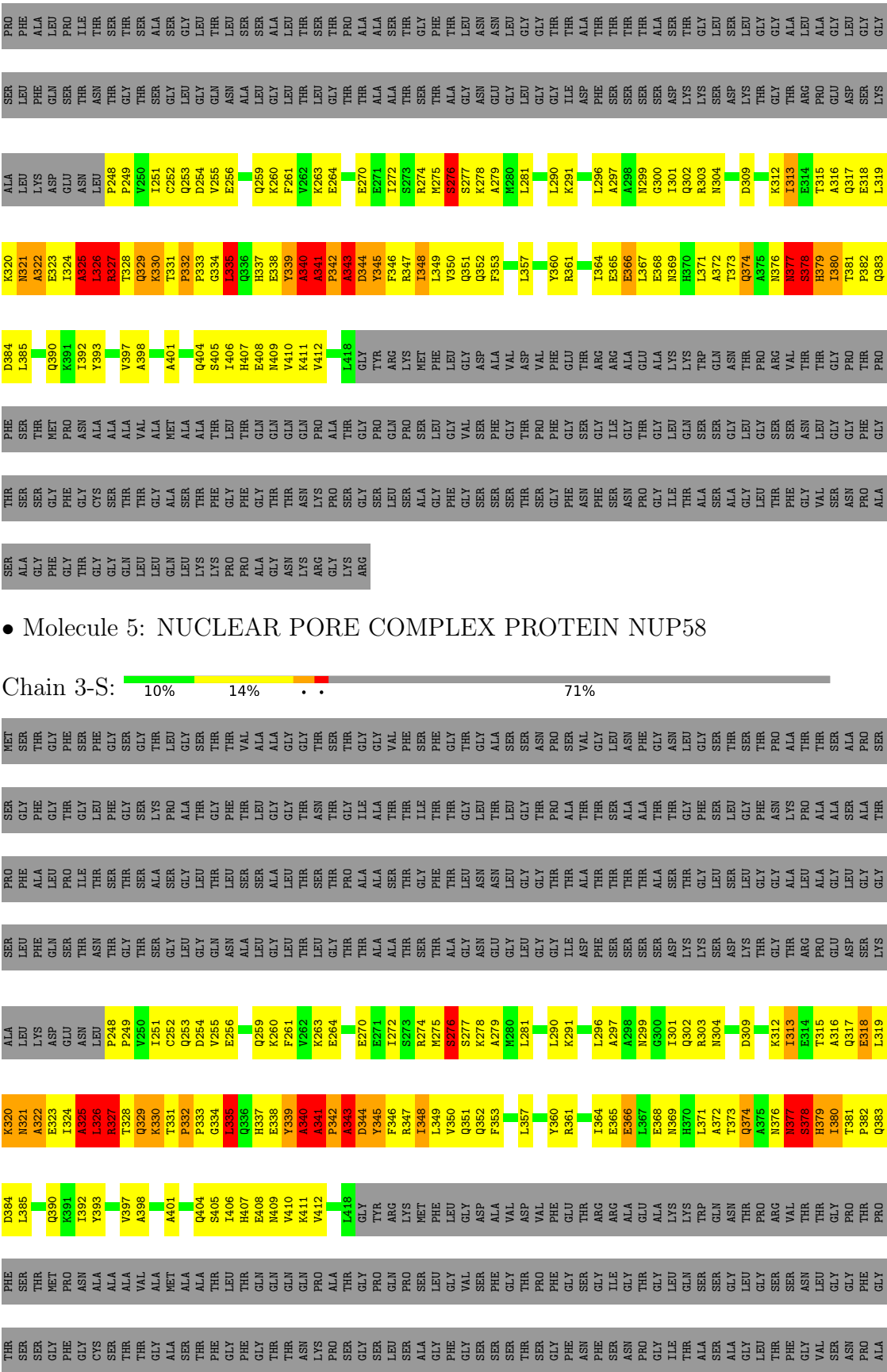


- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58

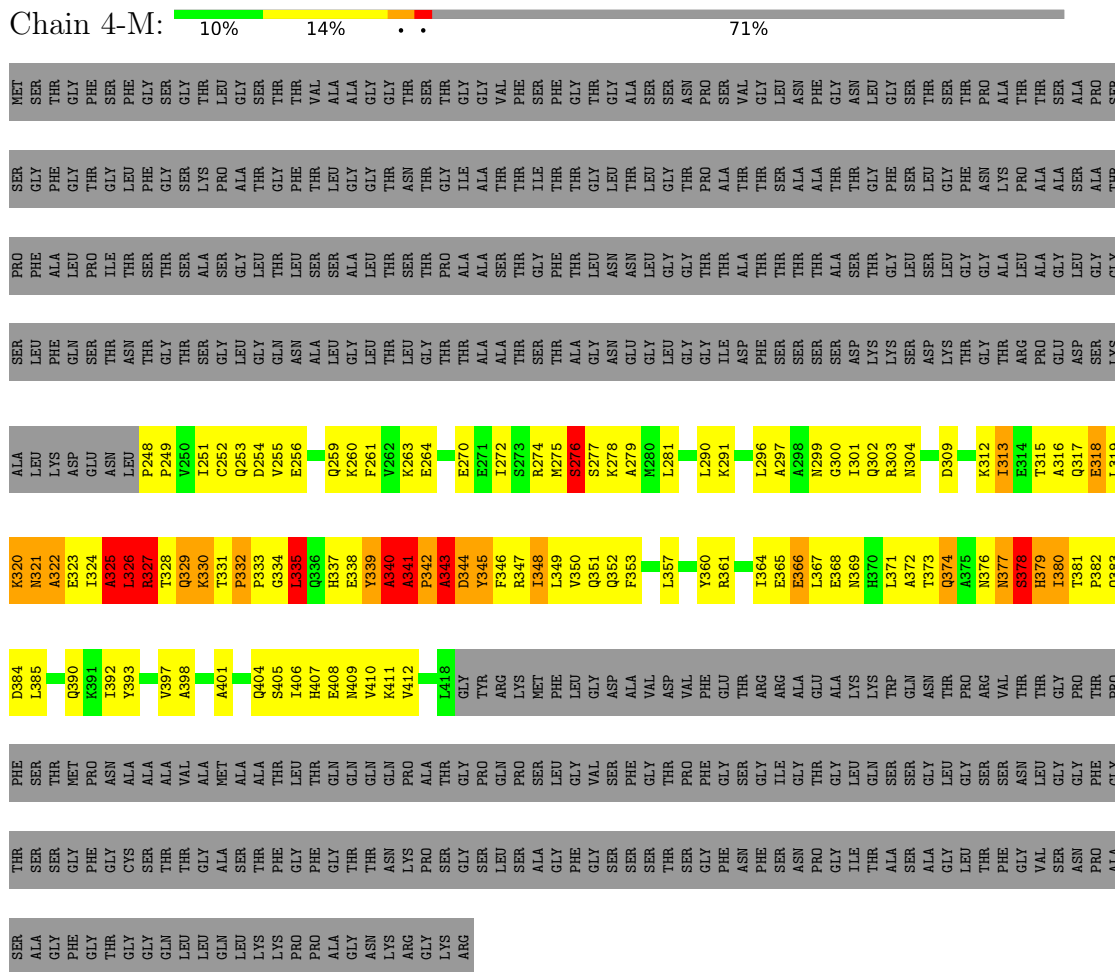
[illegible]

Chain 2-Y: 10% 14% . . 71%

K320	K321	A322	E323	A325	L326	R327	T328	K330	K331	P332	P333	G334	L335	G336	H337	E338	Y339	A340	A341	P342	A343	D344	F345	F346	R347	L348	L349	V350	Q352	F353		L357	Y360	R361		L364	E365	E366	L367	E368	N369	L370	L371	A372	T373		A375	N376	N377	S378	H379	L380	T381	P382				
ALA	LEU	LYS	ASP	ASN	LEU	P248	P249	P250	I251	C252	Q253	D254	G255	E256		Q259	K260	F261	V262	K263	E264		E270	E271	I272	S273	R274	M275	S276	K278	A279	M280	L281		L290	K291		L296	A297	A298	N299	G300	I301	Q302	R303	N304		D309		K312	I313	E314	T315	A316	Q317	E318	L319	
SER	LEU	PHE	GLN	SER	ASN	THR	THR	THR	SER	GLY	LEU	GLY	GLN	ASN	ALA	LEU	GLY	LEU	THR	LEU	GLY	THR	ALA	ALA	ALA	THR	SER	THR	ALA	ASN	GLY	LEU	GLY	GLY	ILE	THR	PHE	SER	SER	SER	SER	ASP	LYS	THR	LYS	ASP	LYS	THR	GLY	GLY	ALA	LEU	PRO	GLU	ASP	SER	LYS	
PRO	PHE	ALA	LEU	PRO	ILE	THR	THR	SER	ALA	SER	GLY	LEU	THR	LEU	SER	SER	ALA	THR	THR	THR	PRO	ALA	ALA	SER	THR	GLY	PHE	THR	LEU	ASN	ASN	LEU	GLY	GLY	THR	THR	SER	ALA	ALA	THR	THR	ASN	LEU	PHE	SER	LEU	GLY	PHE	ASN	PRO	ALA	THR	ALA	SER	ALA	SER	GLY	THR
MET	SER	THR	GLY	SER	PHE	GLY	GLY	THR	THR	LEU	GLY	SER	THR	THR	VAL	ALA	GLY	GLY	THR	ASN	THR	GLY	GLY	THR	PHE	ILE	THR	THR	GLY	LEU	THR	LEU	GLY	GLY	THR	ASN	LEU	LEU	PHE	ALA	ALA	THR	ASN	LEU	GLY	PHE	THR	PRO	ALA	THR	SER	ALA	SER	ALA	THR	SER		



- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58



- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58



[illegible]

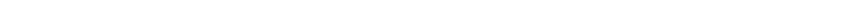
- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58

Chain 4-Y: 10% 14% . . 71%

PRO	PHE	K320	D384	K322	L385	K321	L382	PHE	LEU	ALA	SER	PRO	MET
	SER	A322	L385	A321	L382	LYS	PHE	PHE	ALA	LEU	LEU	PHE	SER
	THR	K323	K390	K391	K392	ASP	GLN	GLY	GLY	PRO	THR	GLY	PHE
	MET	K324	K391	K392	K393	ASN	THR	THR	ILE	THR	ILE	GLY	SER
	PRO	K325	K392	K393	K394	ASN	THR	ASN	THR	THR	THR	LEU	PHE
	ASN	K326	K393	K394	K395	ASN	THR	ASN	THR	THR	THR	LEU	PHE
	ALA	K327	K394	K395	K396	P248	THR	THR	THR	THR	THR	GLY	GLY
	ALA	K328	K395	K396	K397	P249	THR	THR	THR	THR	THR	GLY	GLY
	ALA	K329	K396	K397	K398	P250	THR	THR	THR	THR	THR	GLY	GLY
	VAL	K330	K397	K398	K399	P251	SER	ALA	ALA	LYS	LYS	THR	LEU
MET	THR	K331	K398	K399	K400	K251	GLY	GLY	SER	SER	PRO	GLY	GLY
	ALA	K332	K399	K400	K401	K252	LEU	LEU	GLY	GLY	ALA	ALA	GLY
	ALA	K333	K400	K401	K402	K253	GLN	GLN	GLY	GLY	THR	THR	SER
	ALA	K334	K401	K402	K403	K254	GLY	GLY	GLY	GLY	THR	THR	SER
	THR	K335	K402	K403	K404	K255	ASN	ASN	LEU	LEU	PHE	PHE	THR
	THR	K336	K403	K404	K405	E256	ALA	ALA	SER	SER	VAL	VAL	THR
	THR	K337	K404	K405	K406	K259	LEU	LEU	SER	SER	LEU	LEU	ALA
	GLN	K338	K405	K406	K407	K260	GLY	GLY	ALA	ALA	GLY	GLY	GLY
	GLN	K339	K406	K407	K408	K261	LEU	LEU	ALA	ALA	GLY	GLY	GLY
	GLN	K340	K407	K408	K409	K262	THR	THR	THR	THR	THR	THR	GLY
PRO	GLN	K341	K408	K409	K410	K263	LEU	LEU	SER	SER	ASN	ASN	GLY
	GLN	K342	K409	K410	K411	K264	GLY	GLY	THR	THR	THR	THR	SER
	PRO	K343	K410	K411	K412	K265	THR	THR	PRO	PRO	GLY	GLY	THR
	ALA	K344	K411	K412	K413	E270	THR	THR	ALA	ALA	ILE	GLY	GLY
	THR	K345	K412	K413	K414	E271	ALA	ALA	ALA	ALA	GLY	GLY	GLY
	GLY	K346	K413	K414	K415	K272	ALA	ALA	SER	SER	VAL	VAL	GLY
	GLN	K347	K414	K415	K416	K273	THR	THR	THR	THR	THR	THR	PHE
	PRO	K348	K415	K416	K417	K274	SER	SER	GLY	GLY	ILE	PHE	PHE
	SER	K349	K416	K417	K418	K275	THR	THR	PHE	PHE	THR	THR	PHE
	LEU	K350	K417	K418	K419	K276	ALA	ALA	THR	THR	GLY	GLY	THR
PHE	LEU	K351	K418	K419	K420	K277	GLY	GLY	LEU	LEU	GLY	GLY	THR
	VAL	K352	K419	K420	K421	K278	ASN	ASN	ASN	ASN	GLY	GLY	GLY
	GLY	K353	K420	K421	K422	K279	GLU	GLU	ASN	ASN	THR	THR	ALA
	ASP	K354	K421	K422	K423	K280	GLY	GLY	LEU	LEU	SER	SER	GLY
	ALA	K355	K422	K423	K424	K281	LEU	LEU	LEU	LEU	GLY	GLY	GLY
	VAL	K356	K423	K424	K425	K282	GLY	GLY	ASN	ASN	SER	SER	ASN
	ASP	K357	K424	K425	K426	K283	GLY	GLY	THR	THR	PRO	PRO	PRO
	THR	K358	K425	K426	K427	K284	ILE	ILE	THR	THR	ALA	ALA	VAL
	VAL	K359	K426	K427	K428	K285	THR	THR	ALA	ALA	SER	SER	SER
	PHE	K360	K427	K428	K429	K286	ASP	ASP	ALA	ALA	VAL	VAL	GLY
GLY	GLY	K361	K428	K429	K430	K287	PHE	PHE	THR	THR	THR	THR	GLY
	THR	K362	K429	K430	K431	K288	SER	SER	THR	THR	SER	SER	LEU
	ARG	K363	K430	K431	K432	K289	SER	SER	THR	THR			
	ARG	K364	K431	K432	K433	K290	SER	SER	THR	THR	ALA	PHE	PHE
	GLY	K365	K432	K433	K434	K291	SER	SER	THR	THR	ALA	ALA	GLY
	ILE	K366	K433	K434	K435	K292	SER	SER	THR	THR	ALA	ALA	GLY
	THR	K367	K434	K435	K436	K293	GLU	GLU	ASN	ASN	THR	THR	ASN
	GLY	K368	K435	K436	K437	K294	ALA	ALA	ASN	ASN	THR	THR	ASN
	LEU	K369	K436	K437	K438	K295	LYS	LYS	THR	THR	GLY	GLY	GLY
	GLN	K370	K437	K438	K439	K296	LYS	LYS	GLY	GLY	PHE	PHE	GLY
SER	GLN	K371	K438	K439	K440	K303	LYS	LYS	THR	THR	GLY	GLY	GLY
	SER	K372	K439	K440	K441	K304	SER	SER	LEU	LEU	SER	SER	SER
	THR	K373	K440	K441	K442	K305	ASN	ASN	SER	SER	LEU	LEU	SER
	GLN	K374	K441	K442	K443	K306	THR	THR	THR	THR	PHE	PHE	THR
	ASN	K375	K442	K443	K444	K307	GLY	GLY	GLY	GLY	ASN	ASN	PRO
	THR	K376	K443	K444	K445	K308	ALA	ALA	ALA	ALA	LYS	LYS	ALA
	PRO	K377	K444	K445	K446	K309	THR	THR	ALA	ALA	PRO	PRO	ALA
	ARG	K378	K445	K446	K447	K310	GLY	GLY	GLY	GLY	THR	THR	THR
	VAL	K379	K446	K447	K448	K311	ARG	ARG	LEU	LEU	ALA	ALA	THR
	ASN	K380	K447	K448	K449	K312	PRO	PRO	ALA	ALA	THR	THR	THR
LEU	LEU	K381	K448	K449	K450	K313	GLY	GLY	GLY	GLY	ALA	ALA	SER
	GLY	K382	K449	K450	K451	K314	ASN	ASN	LEU	LEU	GLY	GLY	SER
	PRO	K383	K450	K451	K452	K315	THR	THR	THR	THR	THR	THR	THR
	THR	K384	K451	K452	K453	K316	GLY	GLY	GLY	GLY	GLY	GLY	GLY
	THR	K385	K452	K453	K454	K317	GLY	GLY	GLY	GLY	GLY	GLY	GLY
	THR	K386	K453	K454	K455	K318	GLY	GLY	GLY	GLY	GLY	GLY	GLY
	THR	K387	K454	K455	K456	K319	GLY	GLY	GLY	GLY	GLY	GLY	GLY
	THR	K388	K455	K456	K457	K320	GLY	GLY	GLY	GLY	GLY	GLY	GLY
	THR	K389	K456	K457	K458	K321	GLY	GLY	GLY	GLY	GLY	GLY	GLY
	THR	K390	K457	K458	K459	K322	GLY	GLY	GLY	GLY	GLY	GLY	GLY

ALA	SER	ALA	GLY	PHE	GLY	THR	GLY	CYS	SER	THR	THR	GLY	GLY	ALA	SER	THR	PHE	PHE	GLY	GLY	THR	ASN	LYS	PRO	ARG	LYS	ARG
GLY	THR	SER	GLY	PHE	GLY	THR	CYS	SER	THR	THR	GLY	GLY	ALA	SER	THR	PHE	PHE	GLY	GLY	THR	ASN	LYS	PRO	ARG	LYS	ARG	

- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58

Chain 5-G:  10% 14% . . 71%

MET	SER	THR	THR	PHE	PHE	SER	SER	GLY	GLY	LEU	THR	GLY	GLY	ALA	ALA	GLY	GLY	THR	THR	THR	GLY	GLY	VAL	PHE	SER	SER	ASN	PRO	PRO	SER	GLY	GLY	LEU	LEU	GLY	GLY	SER	SER	THR	PRO	ALA	ALA	THR	THR	SER	SER	ALA	ALA	PRO	SER

SER	GLY	PHE	THR	LEU	PHE	GLY	SER	LYS	PRO	ALA	THR	GLY	PHE	THR	LEU	GLY	GLY	THR	ASN	THR	THR	ILE	ILE	ALA	THR	THR	THR	THR	THR	GLY	LEU	THR	LEU	GLY	THR	PRO	ALA	THR	THR	THR	SER	SER	PHE	GLY	PHE	THR	LEU	GLY	GLY	PHE	ASN	LYS	PRO	ALA	ALA	ALA	SER	SER	ALA	THR

[illegible][illegible][illegible]

K320	K321	K322	K323	K324	K325	K326	K327	K328	K329	K330	K331	K332	K333	K334	K335	K336	K337	K338	K339	K340	K341	K342	K343	K344	K345	K346	K347	K348	K349	K350	K351	K352	K353	K354	K355	K356	K357	K358	K359	K360	K361	K362	K363	K364	K365	K366	K367	K368	K369	K370	K371	K372	K373	K374	K375	K376	K377	K378	K379	K380	K381	K382	K383	K384	K385	K386	K387	K388	K389	K390	K391	K392	K393	K394	K395	K396	K397	K398	K399	K400	K401	K402	K403	K404	K405	K406	K407	K408	K409	K410	K411	K412	K413	K414	K415	K416	K417	K418	K419	K420	K421	K422	K423	K424	K425	K426	K427	K428	K429	K430	K431	K432	K433	K434	K435	K436	K437	K438	K439	K440	K441	K442	K443	K444	K445	K446	K447	K448	K449	K450	K451	K452	K453	K454	K455	K456	K457	K458	K459	K460	K461	K462	K463	K464	K465	K466	K467	K468	K469	K470	K471	K472	K473	K474	K475	K476	K477	K478	K479	K480	K481	K482	K483	K484	K485	K486	K487	K488	K489	K490	K491	K492	K493	K494	K495	K496	K497	K498	K499	K500	K501	K502	K503	K504	K505	K506	K507	K508	K509	K510	K511	K512	K513	K514	K515	K516	K517	K518	K519	K520	K521	K522	K523	K524	K525	K526	K527	K528	K529	K530	K531	K532	K533	K534	K535	K536	K537	K538	K539	K540	K541	K542	K543	K544	K545	K546	K547	K548	K549	K550	K551	K552	K553	K554	K555	K556	K557	K558	K559	K560	K561	K562	K563	K564	K565	K566	K567	K568	K569	K570	K571	K572	K573	K574	K575	K576	K577	K578	K579	K580	K581	K582	K583	K584	K585	K586	K587	K588	K589	K590	K591	K592	K593	K594	K595	K596	K597	K598	K599	K600	K601	K602	K603	K604	K605	K606	K607	K608	K609	K610	K611	K612	K613	K614	K615	K616	K617	K618	K619	K620	K621	K622	K623	K624	K625	K626	K627	K628	K629	K630	K631	K632	K633	K634	K635	K636	K637	K638	K639	K640	K641	K642	K643	K644	K645	K646	K647	K648	K649	K650	K651	K652	K653	K654	K655	K656	K657	K658	K659	K660	K661	K662	K663	K664	K665	K666	K667	K668	K669	K670	K671	K672	K673	K674	K675	K676	K677	K678	K679	K680	K681	K682	K683	K684	K685	K686	K687	K688	K689	K690	K691	K692	K693	K694	K695	K696	K697	K698	K699	K700	K701	K702	K703	K704	K705	K706	K707	K708	K709	K710	K711	K712	K713	K714	K715	K716	K717	K718	K719	K720	K721	K722	K723	K724	K725	K726	K727	K728	K729	K730	K731	K732	K733	K734	K735	K736	K737	K738	K739	K740	K741	K742	K743	K744	K745	K746	K747	K748	K749	K750	K751	K752	K753	K754	K755	K756	K757	K758	K759	K760	K761	K762	K763	K764	K765	K766	K767	K768	K769	K770	K771	K772	K773	K774	K775	K776	K777	K778	K779	K780	K781	K782	K783	K784	K785	K786	K787	K788	K789	K790	K791	K792	K793	K794	K795	K796	K797	K798	K799	K800	K801	K802	K803	K804	K805	K806	K807	K808	K809	K810	K811	K812	K813	K814	K815	K816	K817	K818	K819	K820	K821	K822	K823	K824	K825	K826	K827	K828	K829	K830	K831	K832	K833	K834	K835	K836	K837	K838	K839	K840	K841	K842	K843	K844	K845	K846	K847	K848	K849	K850	K851	K852	K853	K854	K855	K856	K857	K858	K859	K860	K861	K862	K863	K864	K865	K866	K867	K868	K869	K870	K871	K872	K873	K874	K875	K876	K877	K878	K879	K880	K881	K882	K883	K884	K885	K886	K887	K888	K889	K890	K891	K892	K893	K894	K895	K896	K897	K898	K899	K900	K901	K902	K903	K904	K905	K906	K907	K908	K909	K910	K911	K912	K913	K914	K915	K916	K917	K918	K919	K920	K921	K922	K923	K924	K925	K926	K927	K928	K929	K930	K931	K932	K933	K934	K935	K936	K937	K938	K939	K940	K941	K942	K943	K944	K945	K946	K947	K948	K949	K950	K951	K952	K953	K954	K955	K956	K957	K958	K959	K960	K961	K962	K963	K964	K965	K966	K967	K968	K969	K970	K971	K972	K973	K974	K975	K976	K977	K978	K979	K980	K981	K982	K983	K984	K985	K986	K987	K988	K989	K990	K991	K992	K993	K994	K995	K996	K997	K998	K999

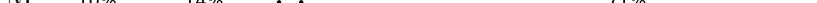
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PHE	SER	THR	THR	MET	PRO	ASN	ALA	ALA	ALA	VAL	ALA	ALA	MET	ALA	ALA	THR	THR	GLN	GLN	GLN	PRO	PRO	THR	GLY	PRO	GLN	PRO	SER	SER	GLY	LEU	GLY	VAL	SER	PHE	THR	THR	PRO	PHE	GLY	GLY	ILE	GLY	GLY	THR	GLY	LEU	GLN	SER	SER	SER	ASN	LEU	GLY	GLY	PHE	GLY

THR	SER	SER	GLY	PHE	GLY	CYS	SER	THR	THR	GLY	ALA	SER	THR	PHE	GLY	PHE	GLY	THR	THR	ASN	LYS	PRO	SER	SER	GLY	SER	SER	LEU	ALA	GLY	PHE	GLY	SER	SER	SER	THR	THR	SER	GLY	PHE	ASN	THR	THR	THR	GLY	ILE	THR	ALA	ALA	SER	GLY	LEU	THR	PHE	GLY	VAL	SER	ASN	PRO	ALA

SER.
ALA
GLY
PHE
GLY
THR
GLY
GLN
GLN
LEU
LEU
GLN
LEU
LYS
LYS
PRO
PRO
ALA
GLY
ASN
LYS
ARG
GLY
LYS
ARG

- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58

Chain 5-M:  10% 14% . . 71%

[illegible]

SER	GLY	PHE	PHE	GLY	THR	LEU	GLY	PHE	GLY	SER	LYS	PRO	ALA	THR	GLY	PHE	THR	LEU	GLY	GLY	THR	ASN	THR	THR	ILE	ILE	ALA	ALA	THR	THR	THR	THR	THR	THR	GLY	GLY	LEU	LEU	GLY	GLY	THR	THR	PRO	ALA	ALA	THR	THR	THR	THR	PHE	GLY	SER	SER	LYS	PRO	PRO	ALA	ALA	ALA	ALA	SER	SER	ALA	THR

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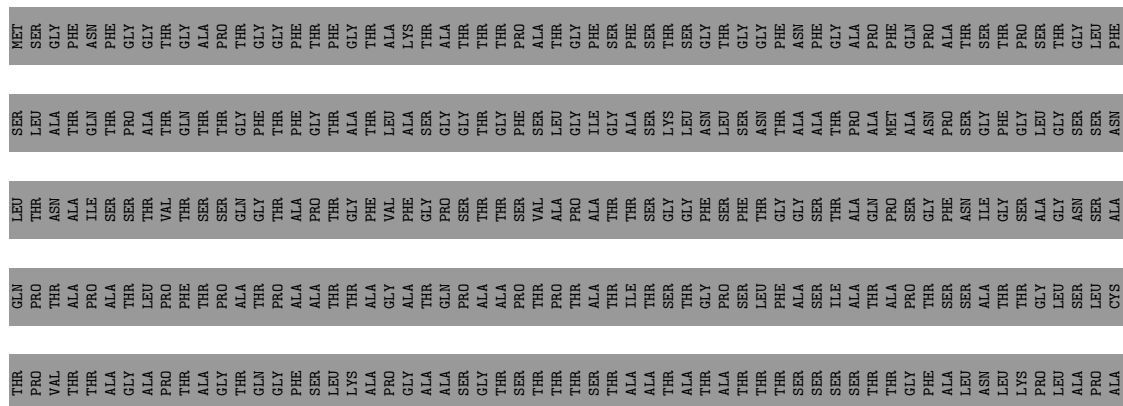
SER LEU LEU PHE GLN SER SER THR ASN THR GLY GLY SER SER LEU GLN GLN ASN ALA ALA LEU LEU LEU THR THR THR ALA ALA ALA GLY GLY GLY GLY GLY ASP PHE SER SER SER SER ASP ASP LYS LYS SER SER LYS THR THR THR ARG ARG PRO GLU GLU ASP LYS



- Molecule 5: NUCLEAR PORE COMPLEX PROTEIN NUP58





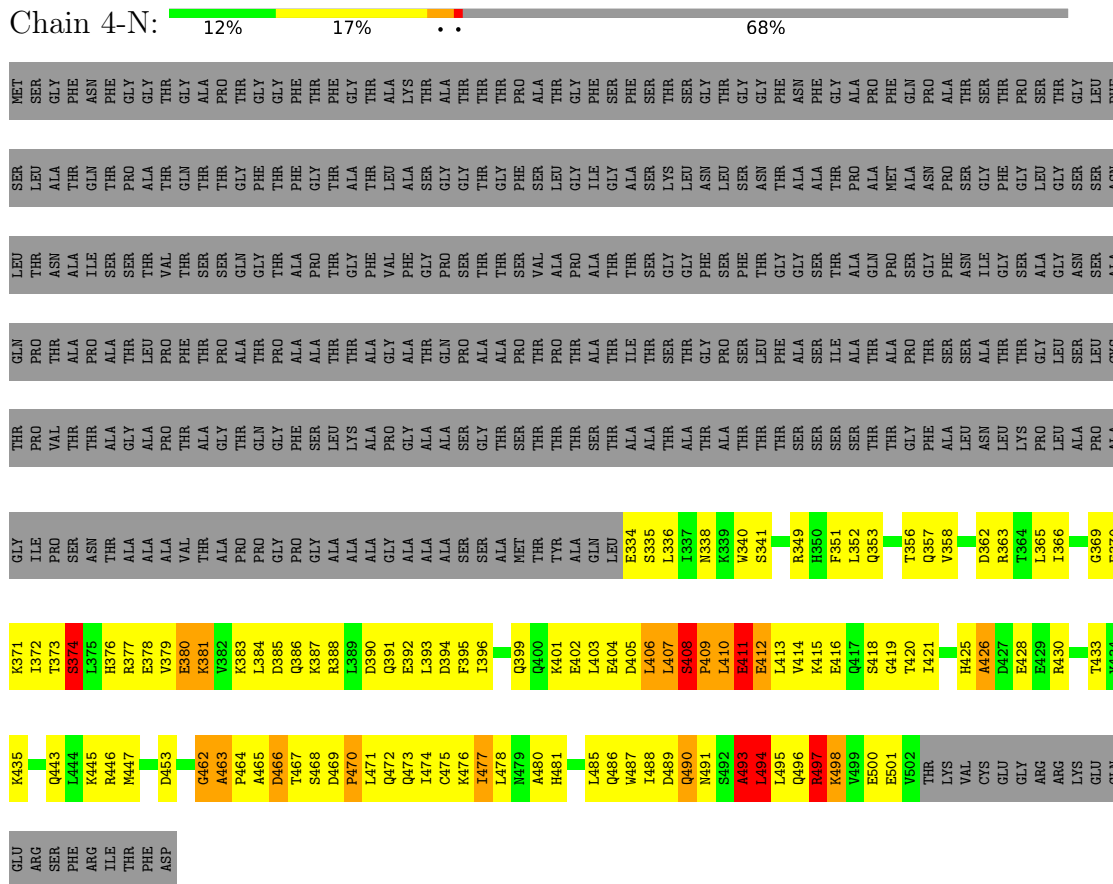




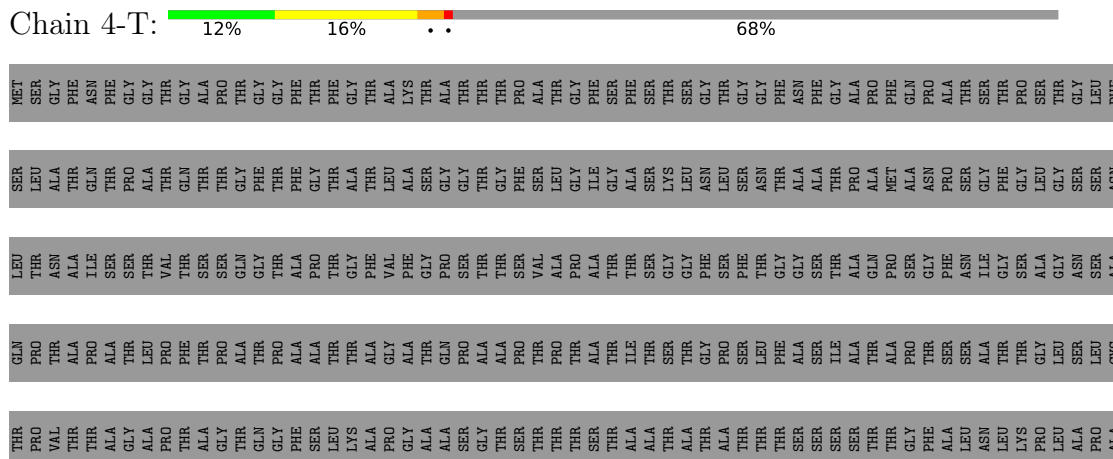


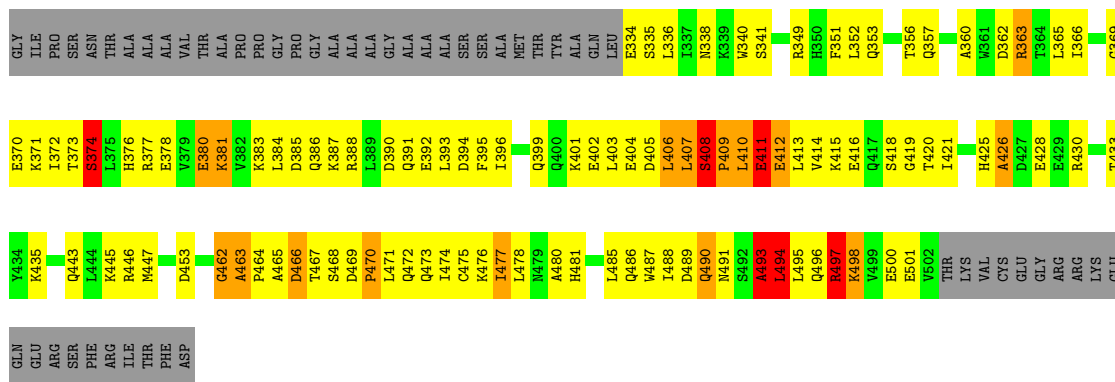
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- Molecule 6: Nuclear pore glycoprotein p62

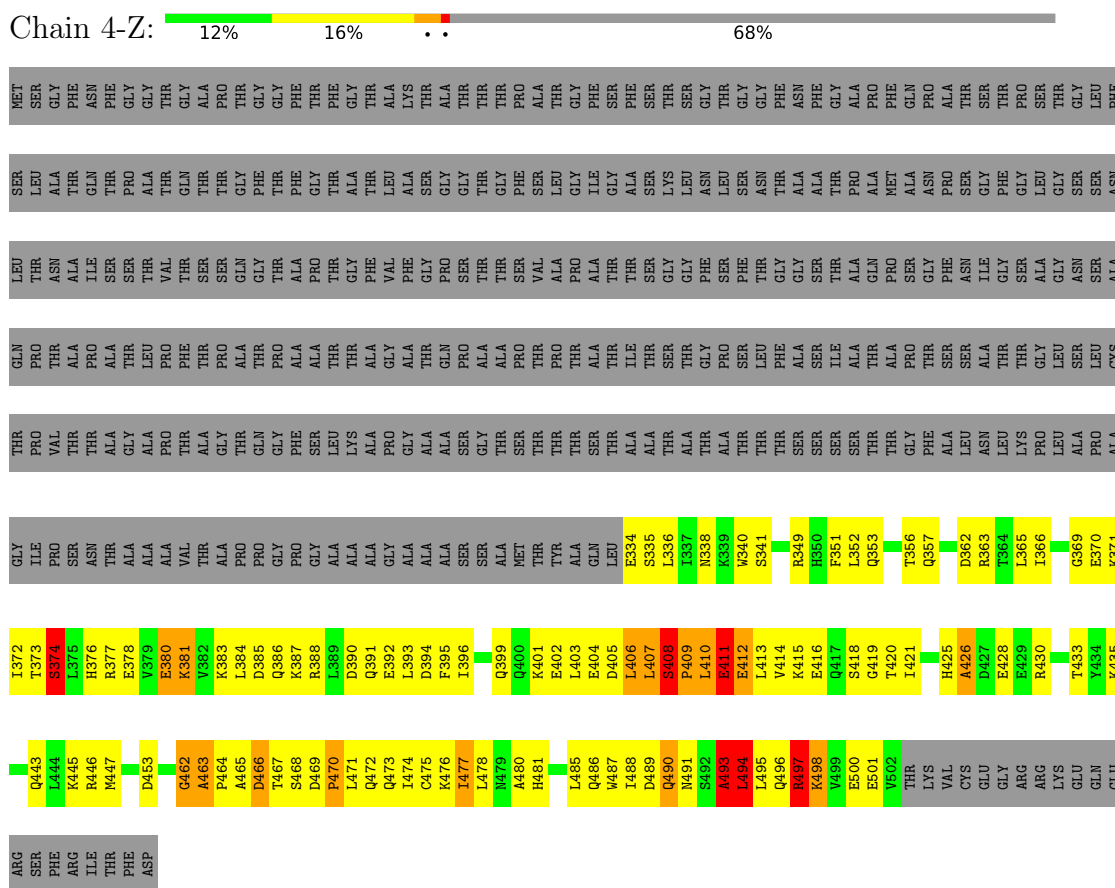


- Molecule 6: Nuclear pore glycoprotein p62

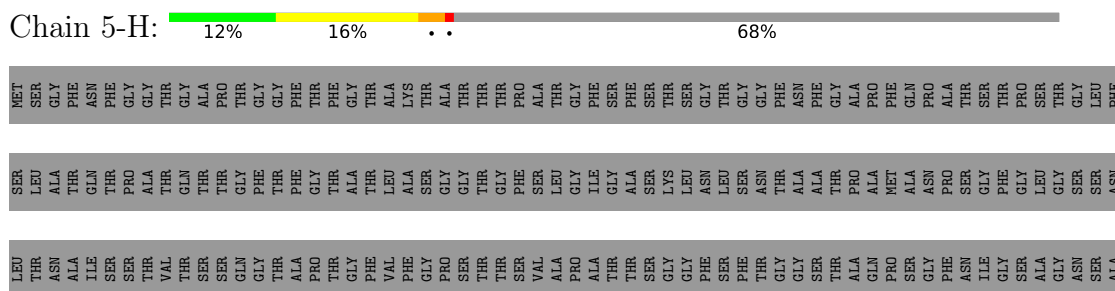


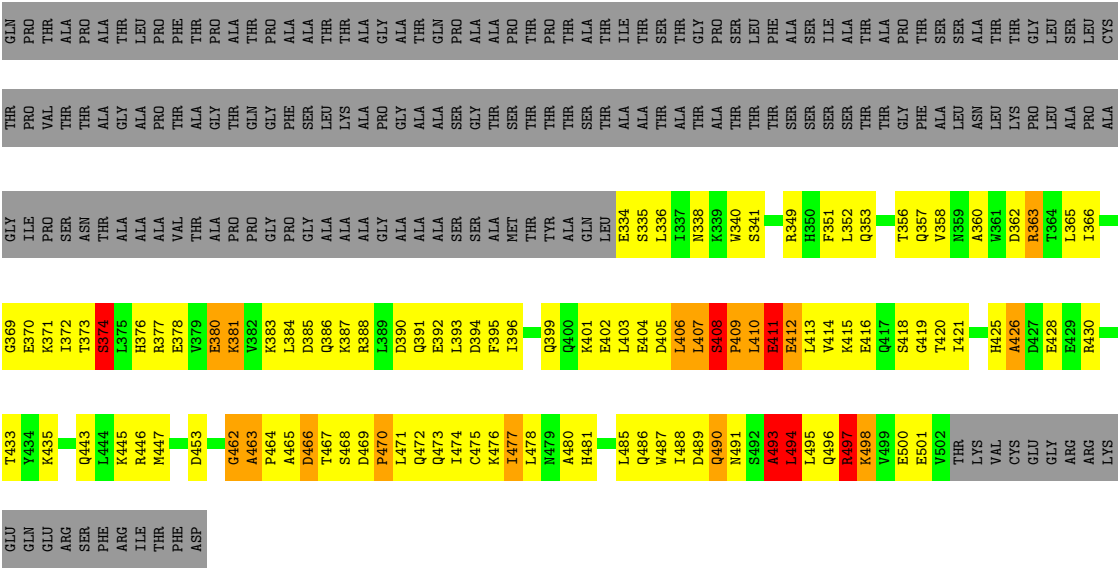


- Molecule 6: Nuclear pore glycoprotein p62



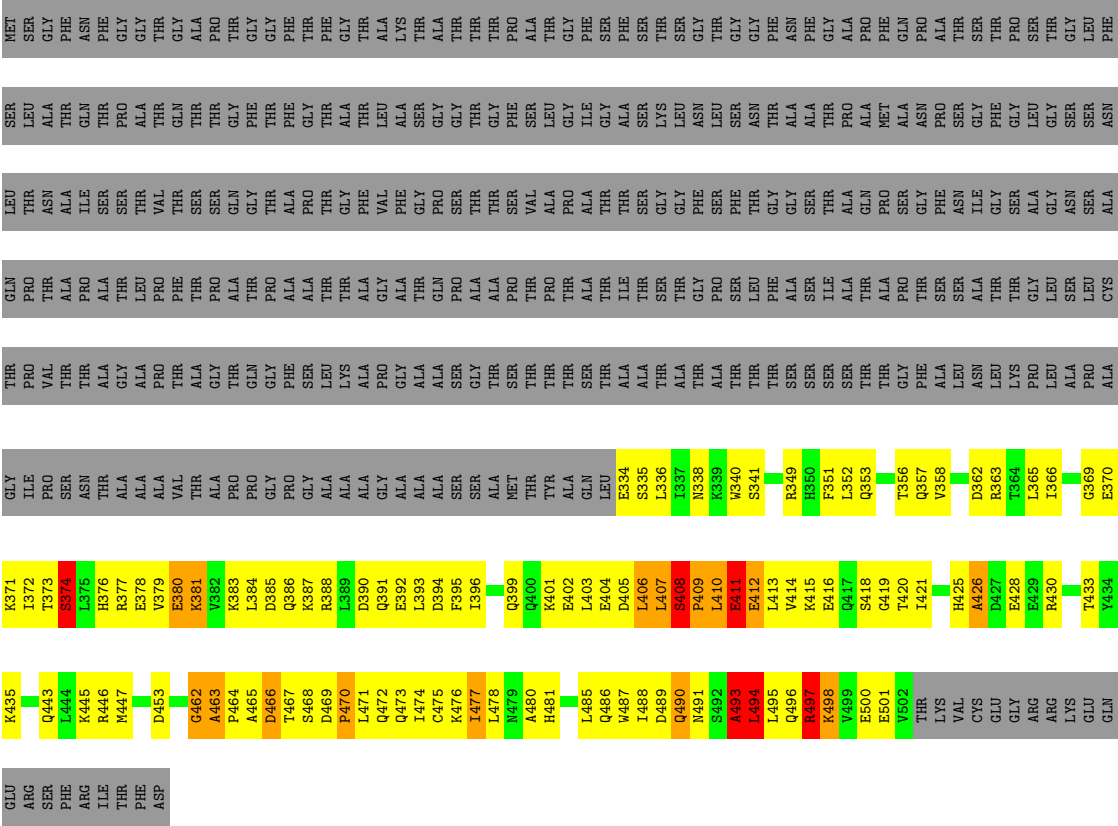
- Molecule 6: Nuclear pore glycoprotein p62





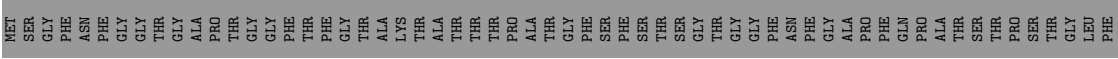
• Molecule 6: Nuclear pore glycoprotein p62

Chain 5-N: 12% 17% 68%



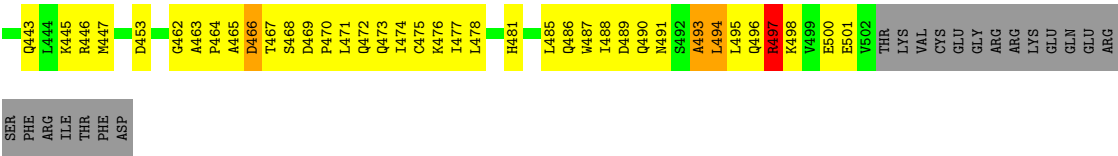
• Molecule 6: Nuclear pore glycoprotein p62

Chain 5-T: 12% 16% 68%

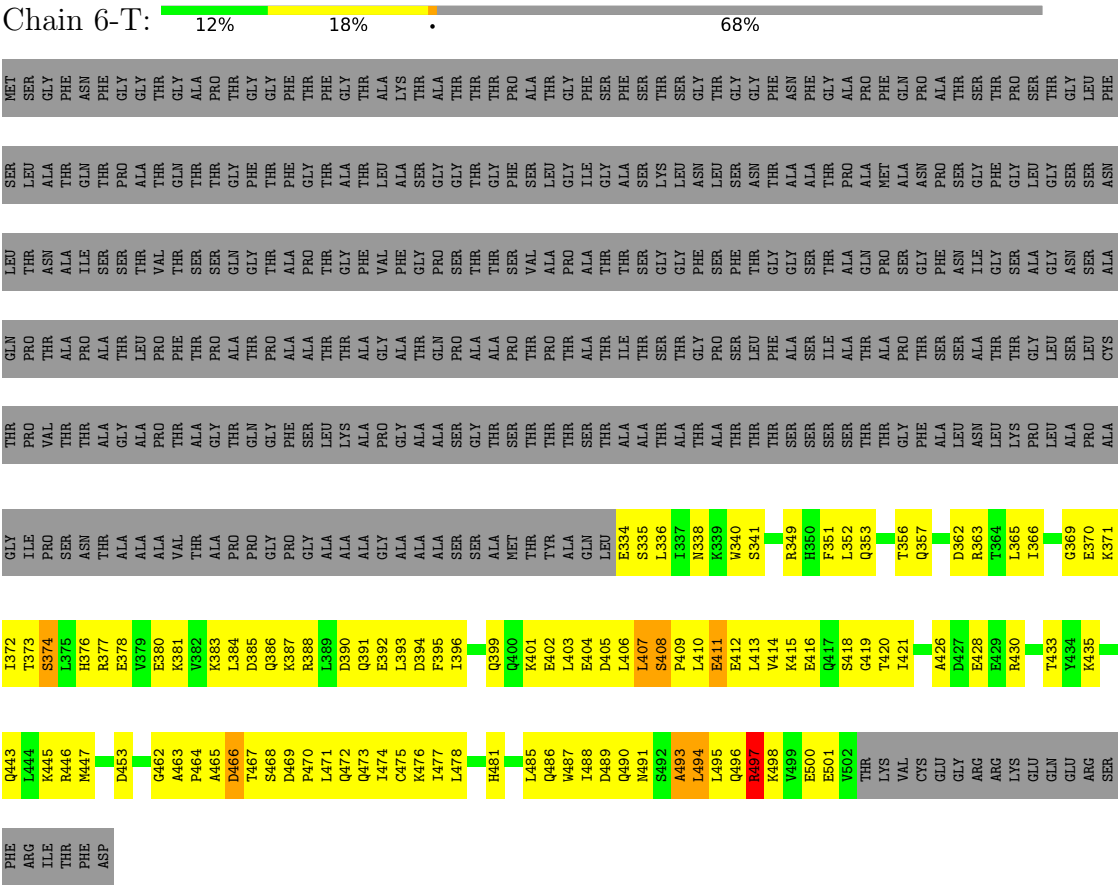


SER	PHE	ARG	ILE	THR	PHE	ASP	K371	ILE	THR	GLN	LEU	SER	MET
							Q443	PRO	PRO	THR	THR	ASN	LEU
PHE	ARG	ILE	THR	PHE	ASP	K372	PRO	VAL	THR	THR	THR	LEU	GLY
							L444	THR	ALA	ALA	THR	ASN	ALA
PHE	ARG	ILE	THR	PHE	ASP	K374	ASN	THR	THR	PRO	THR	GLN	THR
						R445	THR	ALA	ALA	SER	ILE	GLN	THR
PHE	ARG	ILE	THR	PHE	ASP	K376	THR	ALA	GLY	THR	SER	PRO	THR
						M447	ALA	GLY	THR	SER	SER	GLY	THR
ASP	PHE	ARG	ILE	THR	PHE	K377	ALA	ALA	LEU	THR	THR	ALA	GLY
							D453	ALA	ALA	PRO	THR	GLY	THR
PHE	ARG	ILE	THR	PHE	ASP	V379	ALA	THR	THR	THR	THR	GLY	THR
						G462	VAL	THR	THR	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	A463	THR	ALA	GLY	THR	THR	THR	THR
						P464	THR	ALA	GLY	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	A465	ALA	THR	ALA	GLN	THR	THR	THR
						D466	PRO	GLN	ALA	GLY	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	T467	GLY	GLN	THR	THR	PHE	GLY	THR
						S468	THR	THR	THR	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	D469	PRO	PHE	ALA	ALA	ALA	ALA	THR
						P470	GLY	SER	ALA	PRO	GLY	ALA	ALA
PHE	ARG	ILE	THR	PHE	ASP	L471	ALA	LEU	THR	THR	THR	ALA	THR
						L472	ALA	LYS	THR	GLY	ALA	GLY	ALA
PHE	ARG	ILE	THR	PHE	ASP	Q473	ALA	ALA	ALA	PHE	THR	THR	THR
						Q474	PRO	PRO	GLY	VAL	LEU	ALA	ALA
PHE	ARG	ILE	THR	PHE	ASP	Q475	ALA	GLY	THR	THR	LYS	ALA	THR
						L476	ALA	GLY	THR	THR	ALA	GLY	ALA
PHE	ARG	ILE	THR	PHE	ASP	L477	ALA	ALA	ALA	ALA	ALA	ALA	THR
						L478	SER	GLY	PRO	GLY	GLY	GLY	ALA
PHE	ARG	ILE	THR	PHE	ASP	K399	ALA	THR	ALA	THR	THR	GLY	THR
							Q400	THR	THR	ALA	THR	GLY	THR
PHE	ARG	ILE	THR	PHE	ASP	Q401	MET	SER	PRO	SER	PHE	SER	THR
						E402	THR	THR	THR	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	L403	ALA	THR	THR	PRO	GLY	GLY	THR
						E404	GLN	THR	ALA	ALA	ALA	ALA	ALA
PHE	ARG	ILE	THR	PHE	ASP	D405	ALA	THR	THR	THR	GLY	GLY	THR
						L406	ALA	THR	THR	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	L407	THR	THR	SER	SER	LYS	THR	THR
						S408	ALA	ALA	THR	GLY	LEU	ASN	GLY
PHE	ARG	ILE	THR	PHE	ASP	P409	THR	THR	GLY	PHE	ASN	GLY	THR
						L410	ALA	PRO	THR	THR	LEU	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	E411	THR	THR	SER	THR	ASN	GLY	THR
						E412	THR	THR	THR	ASN	GLY	GLY	GLY
PHE	ARG	ILE	THR	PHE	ASP	L413	S341	PHE	GLY	THR	THR	THR	THR
						S342	THR	THR	THR	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	V414	R349	SER	ALA	GLY	ALA	ASN	THR
						E415	H950	SER	ALA	ALA	ALA	ALA	ASN
PHE	ARG	ILE	THR	PHE	ASP	K416	H950	SER	SER	SER	ALA	PHE	THR
						E417	THR	THR	THR	THR	THR	THR	THR
PHE	ARG	ILE	THR	PHE	ASP	S41							

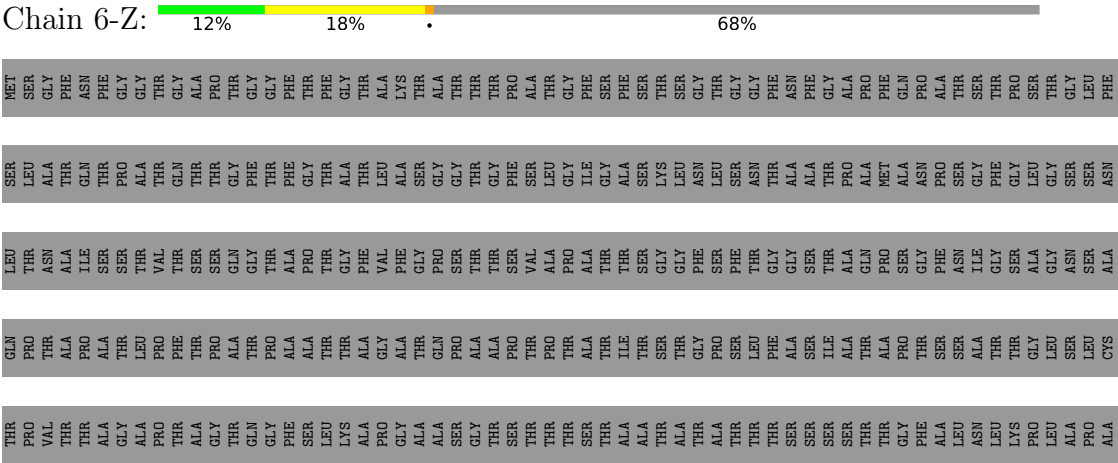
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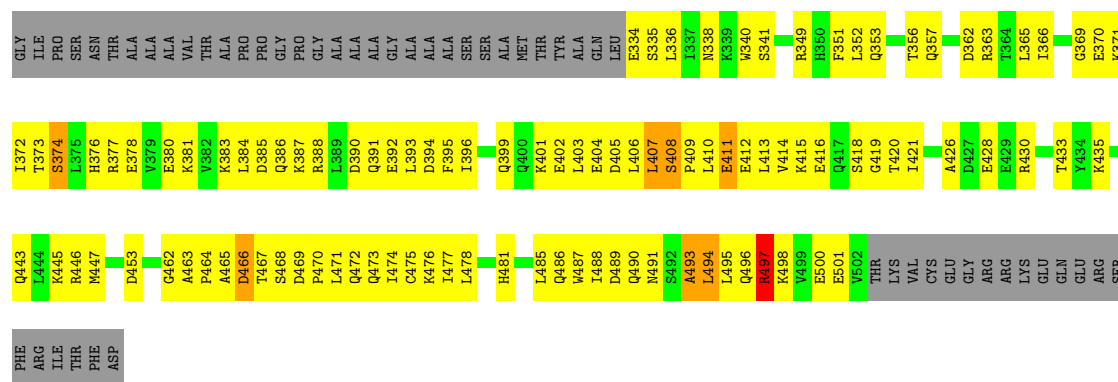


• Molecule 6: Nuclear pore glycoprotein p62

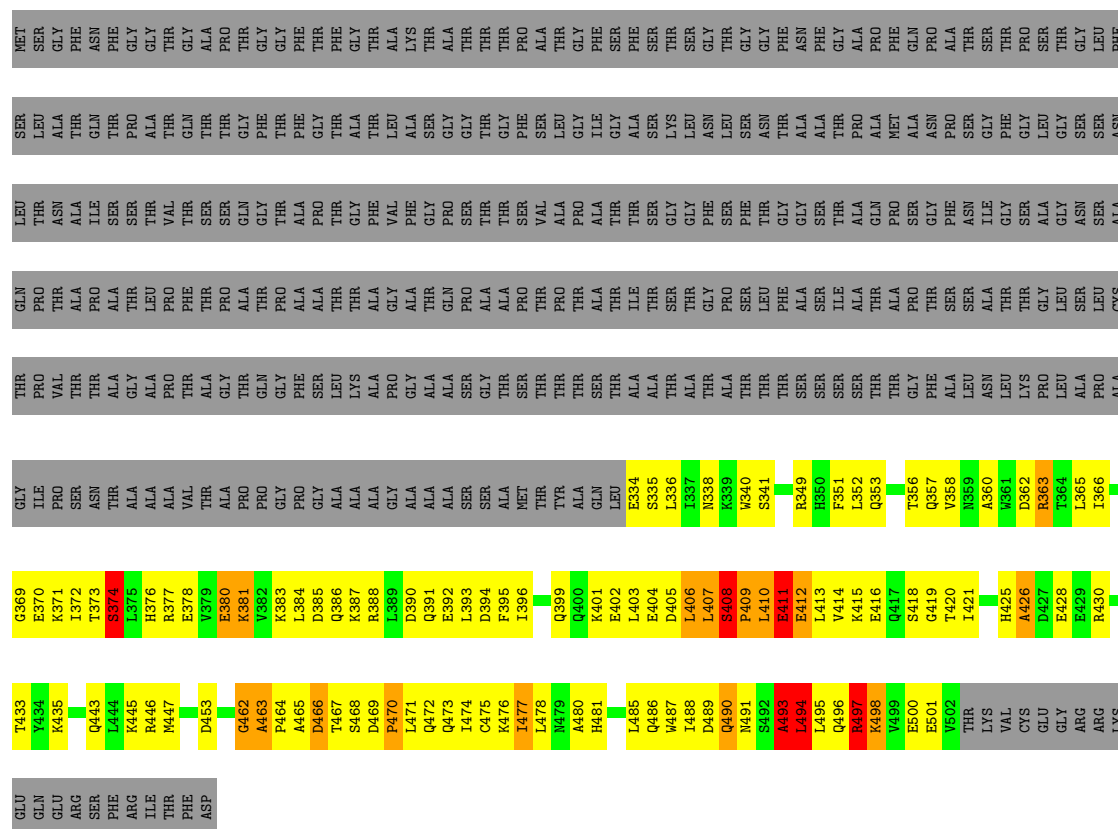


• Molecule 6: Nuclear pore glycoprotein p62

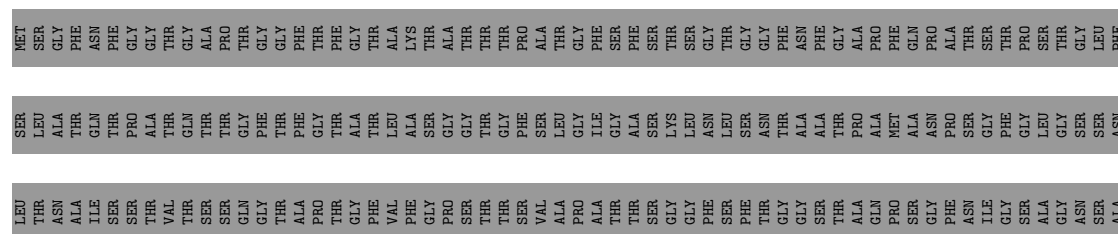




- Molecule 6: Nuclear pore glycoprotein p62



- Molecule 6: Nuclear pore glycoprotein p62

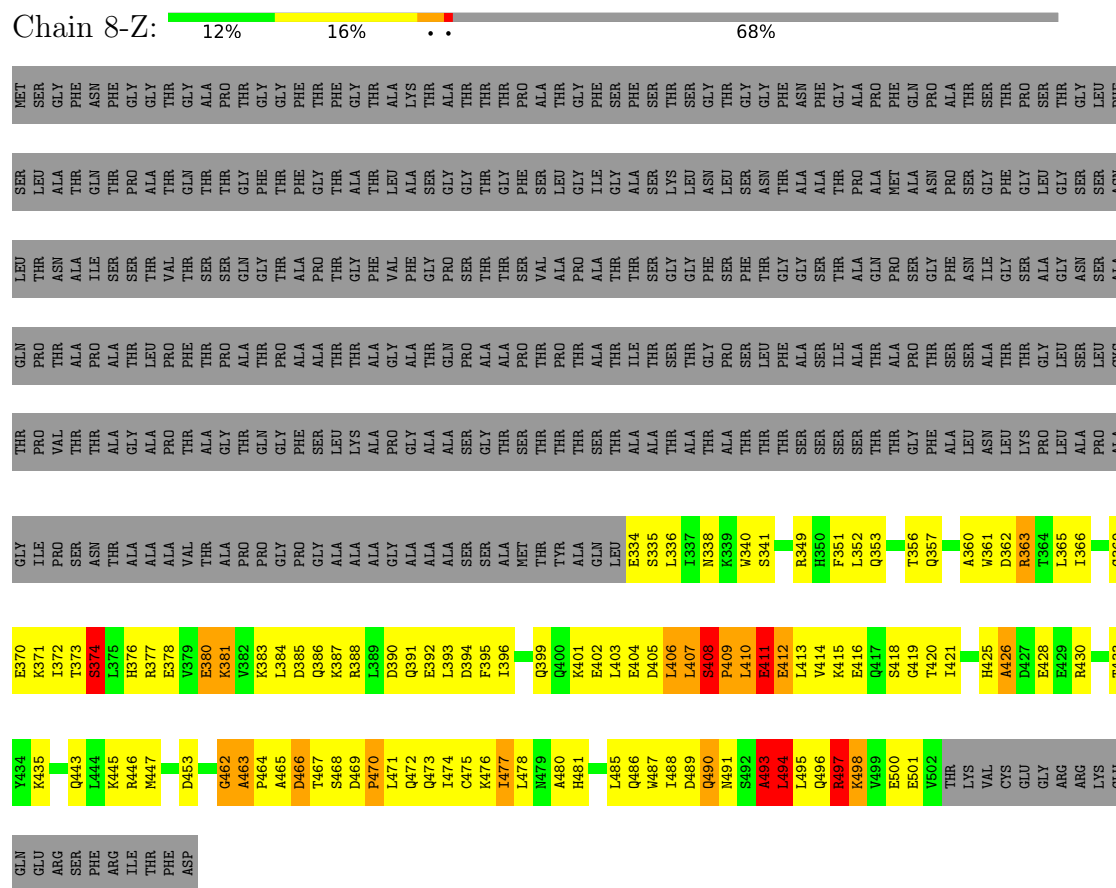




GLU	T433	G369	GLY	THR	GLN	LEU	SER	MET
GLN	K434	E370	ILE	PRO	PRO	THR	LEU	THR
GLU	K435	K371	PRO	VAL	THR	THR	ASN	GLY
ARG		I372	SER	THR	ALA	THR	THR	ASN
SER	D443	I373	ASN	THR	PRO	ILE	GLN	ASN
PHE	L444	K374	THR	ALA	ALA	SER	THR	PHE
ARG	K445	L375	ALA	GLY	THR	SER	PRO	GLY
ILE	R446	H376	ALA	ALA	LEU	THR	ALA	GLY
THR	M447	R377	ALA	PRO	PRO	VAL	THR	THR
PHE		E378	VAL	THR	PHE	GLN	GLY	GLY
ASP	D453	V379	THR	ALA	THR	SER	THR	ALA
		E380	ALA	GLY	PRO	SER	THR	PRO
	G462	K381	PRO	THR	ALA	GLN	THR	THR
	A463	V382	PRO	GLN	THR	GLY	PHE	GLY
	P464	K383	GLY	GLY	PRO	THR	THR	GLY
	A465	L384	PRO	PHE	ALA	ALA	PHE	PHE
	D466	D385	GLY	SER	ALA	PRO	GLY	THR
	T467	Q386	ALA	LEU	THR	THR	THR	PHE
	S468	K387	ALA	LYS	THR	GLY	ALA	GLY
	D469	R388	ALA	ALA	ALA	VAL	LEU	THR
	P470	L389	GLY	PRO	GLY	VAL	ALA	LYS
	L471	D390	ALA	ALA	ALA	GLY	ALA	THR
	Q472	Q391	ALA	ALA	THR	THR	SER	ALA
	Q473	E392	ALA	ALA	GLN	PRO	GLY	ALA
	L474	L393	SER	SER	PRO	SER	GLY	THR
	C475	D394	SER	GLY	ALA	THR	THR	THR
	K476	F395	ALA	THR	ALA	THR	GLY	THR
	L477	I396	MET	SER	PRO	SER	PHE	THR
	L478		THR	THR	THR	VAL	SER	ALA
	M479	Q399	THR	THR	PRO	ALA	LEU	THR
	A480	Q400	ALA	THR	THR	PRO	ALA	THR
	H481	K401	GLN	SER	ALA	ILE	ILE	PHE
		E402	LEU	GLY	THR	THR	GLY	GLY
	L485	L403	E334	ALA	ILE	THR	ALA	PHE
	D486	S335	S335	ALA	THR	SER	SER	ALA
	W487	D405	L336	THR	SER	GLY	LYS	THR
	L488	L406	I337	ALA	THR	GLY	LEU	SER
	D489	L407	N338	THR	GLY	PHE	ASN	GLY
	Q490	S408	K339	ALA	PRO	SER	LEU	THR
	N491	P409	W340	THR	SER	PHE	SER	GLY
	S492	L410	S341	THR	LEU	THR	ASN	GLY
	A493	E411		THR	PHE	GLY	THR	PHE
	L494	E412	R349	SER	ALA	GLY	ASN	ASN
	L495	L413	H350	SER	SER	ALA	PHE	ASN
	Q496	V414	F351	SER	ILE	THR	GLY	GLY
	R497	K415	L352	SER	ALA	PRO	ALA	ALA
	K498	E416	Q353	THR	THR	GLN	ALA	PRO
	W499	Q417		THR	ALA	PRO	MET	PHE
	E500	S418	T356	GLY	PRO	GLN	ALA	GLN
	E501	G419	Q357	PHE	THR	ASN	ASN	PRO
	W502	T420	V358	ALA	SER	PHE	GLY	PRO
	THR	I421	N359	LEU	SER	ASN	SER	THR
	LYS		A360	ASN	ALA	ILE	GLY	THR
	VAL	H425	W361	LEU	THR	GLY	PHE	THR
	CYS	A426	D362	LYS	THR	SER	GLY	PRO
	GLY	D427	R363	PRO	GLY	ALA	LEU	GLY
	ARG	E428	L364	LEU	LEU	GLY	THR	GLY
	ARG	E429	L365	ALA	ALA	ASN	SER	GLY
	LYS	R430	I366	PRO	ALA	LEU	SER	THR

[illegible]

- Molecule 6: Nuclear pore glycoprotein p62



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of subtomograms used	8400	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	3	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	315.784	Depositor
Minimum map value	0.000	Depositor
Average map value	1.328	Depositor
Map value standard deviation	10.659	Depositor
Recommended contour level	36.6	Depositor
Map size ($\text{\AA}$)	964.8, 964.8, 964.8	wwPDB
Map dimensions	144, 144, 144	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	6.7, 6.7, 6.7	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	1-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	1-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	1-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	1-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	1-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	1-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	2-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	2-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	2-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	2-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	2-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	2-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	3-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	3-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	3-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	3-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	3-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	3-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	4-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	4-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	4-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	4-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	4-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	4-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	5-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	5-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	5-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	5-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	5-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	5-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	6-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	6-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	6-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	6-K	1.54	0/5338	1.77	85/7399 (1.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	6-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	6-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	7-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	7-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	7-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	7-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	7-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	7-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	8-A	1.55	0/3195	1.79	59/4421 (1.3%)
1	8-B	1.55	1/3195 (0.0%)	1.79	59/4421 (1.3%)
1	8-E	1.53	1/5338 (0.0%)	1.77	86/7399 (1.2%)
1	8-K	1.54	0/5338	1.77	85/7399 (1.1%)
1	8-Q	1.53	1/5338 (0.0%)	1.77	85/7399 (1.1%)
1	8-W	1.54	1/5338 (0.0%)	1.77	86/7399 (1.2%)
2	1-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	1-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	1-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	1-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	2-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	2-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	2-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	2-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	3-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	3-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	3-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	3-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	4-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	4-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	4-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	4-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	5-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	5-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	5-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	5-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	6-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	6-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	6-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	6-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	7-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	7-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	7-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	7-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
2	8-C	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	8-I	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	8-O	1.85	32/3143 (1.0%)	2.22	154/4369 (3.5%)
2	8-U	1.85	31/3143 (1.0%)	2.22	155/4369 (3.5%)
3	1-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	1-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	1-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	1-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	2-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	2-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	2-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	2-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	3-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	3-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	3-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	3-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	4-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	4-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	4-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	4-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	5-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	5-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	5-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	5-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	6-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	6-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	6-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	6-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	7-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	7-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	7-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	7-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	8-D	1.94	100/5066 (2.0%)	2.79	254/7020 (3.6%)
3	8-J	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
3	8-P	1.94	100/5066 (2.0%)	2.79	253/7020 (3.6%)
3	8-V	1.95	100/5066 (2.0%)	2.79	252/7020 (3.6%)
4	1-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	1-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	1-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	1-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
4	2-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	2-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	2-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	2-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
4	3-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	3-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	3-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	3-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
4	4-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	4-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	4-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	4-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
4	5-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	5-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	5-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	5-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
4	6-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	6-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	6-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	6-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
4	7-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	7-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	7-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	7-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
4	8-F	5.96	263/1655 (15.9%)	5.12	360/2302 (15.6%)
4	8-L	5.96	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	8-R	5.97	263/1655 (15.9%)	5.12	362/2302 (15.7%)
4	8-X	5.97	262/1655 (15.8%)	5.12	362/2302 (15.7%)
5	1-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	1-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	1-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	1-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	2-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	2-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	2-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	2-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	3-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	3-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	3-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	3-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	4-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	4-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	4-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	4-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	5-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	5-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	5-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
5	5-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	6-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	6-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	6-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	6-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	7-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	7-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	7-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	7-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
5	8-G	6.67	152/852 (17.8%)	5.77	239/1190 (20.1%)
5	8-M	6.67	151/852 (17.7%)	5.77	240/1190 (20.2%)
5	8-S	6.67	150/852 (17.6%)	5.77	239/1190 (20.1%)
5	8-Y	6.67	153/852 (18.0%)	5.77	242/1190 (20.3%)
6	1-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	1-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	1-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	1-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	2-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	2-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	2-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	2-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	3-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	3-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	3-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	3-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	4-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	4-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	4-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	4-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	5-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	5-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	5-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	5-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	6-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	6-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	6-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	6-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	7-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	7-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)
6	7-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	7-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
6	8-H	5.51	133/841 (15.8%)	4.99	244/1174 (20.8%)
6	8-N	5.51	134/841 (15.9%)	4.99	246/1174 (21.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
6	8-T	5.51	132/841 (15.7%)	4.99	246/1174 (21.0%)
6	8-Z	5.51	132/841 (15.7%)	4.99	248/1174 (21.1%)
All	All	3.02	21744/591760 (3.7%)	3.03	43832/821264 (5.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1-A	0	1
1	1-B	0	1
1	1-E	0	1
1	1-K	0	1
1	1-Q	0	1
1	1-W	0	1
2	1-C	1	4
2	1-I	1	4
2	1-O	1	4
2	1-U	1	4
2	2-C	1	4
2	2-I	1	4
2	2-O	1	4
2	2-U	1	4
2	3-C	1	4
2	3-I	1	4
2	3-O	1	4
2	3-U	1	4
2	4-C	1	4
2	4-I	1	4
2	4-O	1	4
2	4-U	1	4
2	5-C	1	4
2	5-I	1	4
2	5-O	1	4
2	5-U	1	4
2	6-C	1	4
2	6-I	1	4
2	6-O	1	4
2	6-U	1	4
2	7-C	1	4
2	7-I	1	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	7-O	1	4
2	7-U	1	4
2	8-C	1	4
2	8-I	1	4
2	8-O	1	4
2	8-U	1	4
3	1-D	0	21
3	1-J	0	20
3	1-P	0	20
3	1-V	0	20
3	2-D	0	20
3	2-J	0	20
3	2-P	0	21
3	2-V	0	20
3	3-D	0	20
3	3-J	0	20
3	3-P	0	21
3	3-V	0	20
3	4-D	0	20
3	4-J	0	20
3	4-P	0	21
3	4-V	0	20
3	5-D	0	21
3	5-J	0	20
3	5-P	0	21
3	5-V	0	20
3	6-D	0	20
3	6-J	0	20
3	6-P	0	21
3	6-V	0	20
3	7-D	0	21
3	7-J	0	20
3	7-P	0	21
3	7-V	0	20
3	8-D	0	20
3	8-J	0	20
3	8-P	0	21
3	8-V	0	20
4	1-F	10	40
4	1-L	10	40
4	1-R	10	40
4	1-X	10	40

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Mol	Chain	#Chirality outliers	#Planarity outliers
4	2-F	7	31
4	2-L	7	31
4	2-R	7	31
4	2-X	7	31
4	3-F	7	31
4	3-L	7	31
4	3-R	7	31
4	3-X	7	31
4	4-F	7	31
4	4-L	7	31
4	4-R	7	31
4	4-X	7	31
4	5-F	7	31
4	5-L	7	31
4	5-R	7	31
4	5-X	7	31
4	6-F	7	31
4	6-L	7	31
4	6-R	7	31
4	6-X	7	31
4	7-F	7	31
4	7-L	7	31
4	7-R	7	31
4	7-X	7	31
4	8-F	7	31
4	8-L	7	31
4	8-R	7	31
4	8-X	7	31
5	1-G	9	10
5	1-M	9	10
5	1-S	9	10
5	1-Y	9	10
5	2-G	9	10
5	2-M	9	10
5	2-S	9	10
5	2-Y	9	10
5	3-G	9	10
5	3-M	9	10
5	3-S	9	10
5	3-Y	9	10
5	4-G	9	10
5	4-M	9	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
5	4-S	9	10
5	4-Y	9	10
5	5-G	9	10
5	5-M	9	10
5	5-S	9	10
5	5-Y	9	10
5	6-G	9	10
5	6-M	9	10
5	6-S	9	10
5	6-Y	9	10
5	7-G	9	10
5	7-M	9	10
5	7-S	9	10
5	7-Y	9	10
5	8-G	9	10
5	8-M	9	10
5	8-S	9	10
5	8-Y	9	10
6	1-H	5	5
6	1-N	5	5
6	1-T	5	4
6	1-Z	5	5
6	2-H	5	5
6	2-N	5	5
6	2-T	5	4
6	2-Z	5	5
6	3-H	5	5
6	3-N	5	5
6	3-T	5	4
6	3-Z	5	5
6	4-H	5	5
6	4-N	5	5
6	4-T	5	5
6	4-Z	5	5
6	5-H	5	5
6	5-N	5	5
6	5-T	5	5
6	5-Z	5	5
6	6-H	5	5
6	6-N	5	5
6	6-T	5	5
6	6-Z	5	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
6	7-H	5	5
6	7-N	5	5
6	7-T	5	5
6	7-Z	5	5
6	8-H	5	5
6	8-N	5	5
6	8-T	5	5
6	8-Z	5	5
All	All	716	2289

All (21744) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-M	379	HIS	CA-C	72.08	2.49	1.52
5	2-M	379	HIS	CA-C	72.08	2.49	1.52
5	3-M	379	HIS	CA-C	72.08	2.49	1.52
5	4-M	379	HIS	CA-C	72.08	2.49	1.52
5	5-M	379	HIS	CA-C	72.08	2.49	1.52
5	6-M	379	HIS	CA-C	72.08	2.49	1.52
5	7-M	379	HIS	CA-C	72.08	2.49	1.52
5	8-M	379	HIS	CA-C	72.08	2.49	1.52
5	1-S	379	HIS	CA-C	72.06	2.49	1.52
5	2-S	379	HIS	CA-C	72.06	2.49	1.52
5	3-S	379	HIS	CA-C	72.06	2.49	1.52
5	4-S	379	HIS	CA-C	72.06	2.49	1.52
5	5-S	379	HIS	CA-C	72.06	2.49	1.52
5	6-S	379	HIS	CA-C	72.06	2.49	1.52
5	7-S	379	HIS	CA-C	72.06	2.49	1.52
5	8-S	379	HIS	CA-C	72.06	2.49	1.52
5	1-G	379	HIS	CA-C	72.06	2.49	1.52
5	2-G	379	HIS	CA-C	72.06	2.49	1.52
5	3-G	379	HIS	CA-C	72.06	2.49	1.52
5	4-G	379	HIS	CA-C	72.06	2.49	1.52
5	5-G	379	HIS	CA-C	72.06	2.49	1.52
5	6-G	379	HIS	CA-C	72.06	2.49	1.52
5	7-G	379	HIS	CA-C	72.06	2.49	1.52
5	8-G	379	HIS	CA-C	72.06	2.49	1.52
5	1-Y	379	HIS	CA-C	72.03	2.49	1.52
5	2-Y	379	HIS	CA-C	72.03	2.49	1.52
5	3-Y	379	HIS	CA-C	72.03	2.49	1.52
5	4-Y	379	HIS	CA-C	72.03	2.49	1.52
5	5-Y	379	HIS	CA-C	72.03	2.49	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-Y	379	HIS	CA-C	72.03	2.49	1.52
5	7-Y	379	HIS	CA-C	72.03	2.49	1.52
5	8-Y	379	HIS	CA-C	72.03	2.49	1.52
4	1-X	453	TYR	CA-C	70.39	2.47	1.52
4	2-X	453	TYR	CA-C	70.39	2.47	1.52
4	3-X	453	TYR	CA-C	70.39	2.47	1.52
4	4-X	453	TYR	CA-C	70.39	2.47	1.52
4	5-X	453	TYR	CA-C	70.39	2.47	1.52
4	6-X	453	TYR	CA-C	70.39	2.47	1.52
4	7-X	453	TYR	CA-C	70.39	2.47	1.52
4	8-X	453	TYR	CA-C	70.39	2.47	1.52
4	1-F	453	TYR	CA-C	70.38	2.47	1.52
4	2-F	453	TYR	CA-C	70.38	2.47	1.52
4	3-F	453	TYR	CA-C	70.38	2.47	1.52
4	4-F	453	TYR	CA-C	70.38	2.47	1.52
4	5-F	453	TYR	CA-C	70.38	2.47	1.52
4	6-F	453	TYR	CA-C	70.38	2.47	1.52
4	7-F	453	TYR	CA-C	70.38	2.47	1.52
4	8-F	453	TYR	CA-C	70.38	2.47	1.52
4	1-R	453	TYR	CA-C	70.33	2.47	1.52
4	2-R	453	TYR	CA-C	70.33	2.47	1.52
4	3-R	453	TYR	CA-C	70.33	2.47	1.52
4	4-R	453	TYR	CA-C	70.33	2.47	1.52
4	5-R	453	TYR	CA-C	70.33	2.47	1.52
4	6-R	453	TYR	CA-C	70.33	2.47	1.52
4	7-R	453	TYR	CA-C	70.33	2.47	1.52
4	8-R	453	TYR	CA-C	70.33	2.47	1.52
4	1-L	453	TYR	CA-C	70.31	2.46	1.52
4	2-L	453	TYR	CA-C	70.31	2.46	1.52
4	3-L	453	TYR	CA-C	70.31	2.46	1.52
4	4-L	453	TYR	CA-C	70.31	2.46	1.52
4	5-L	453	TYR	CA-C	70.31	2.46	1.52
4	6-L	453	TYR	CA-C	70.31	2.46	1.52
4	7-L	453	TYR	CA-C	70.31	2.46	1.52
4	8-L	453	TYR	CA-C	70.31	2.46	1.52
5	1-M	380	ILE	N-CA	63.33	2.23	1.46
5	2-M	380	ILE	N-CA	63.33	2.23	1.46
5	3-M	380	ILE	N-CA	63.33	2.23	1.46
5	4-M	380	ILE	N-CA	63.33	2.23	1.46
5	5-M	380	ILE	N-CA	63.33	2.23	1.46
5	6-M	380	ILE	N-CA	63.33	2.23	1.46
5	7-M	380	ILE	N-CA	63.33	2.23	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-M	380	ILE	N-CA	63.33	2.23	1.46
5	1-G	380	ILE	N-CA	63.32	2.23	1.46
5	2-G	380	ILE	N-CA	63.32	2.23	1.46
5	3-G	380	ILE	N-CA	63.32	2.23	1.46
5	4-G	380	ILE	N-CA	63.32	2.23	1.46
5	5-G	380	ILE	N-CA	63.32	2.23	1.46
5	6-G	380	ILE	N-CA	63.32	2.23	1.46
5	7-G	380	ILE	N-CA	63.32	2.23	1.46
5	8-G	380	ILE	N-CA	63.32	2.23	1.46
5	1-S	380	ILE	N-CA	63.30	2.23	1.46
5	2-S	380	ILE	N-CA	63.30	2.23	1.46
5	3-S	380	ILE	N-CA	63.30	2.23	1.46
5	4-S	380	ILE	N-CA	63.30	2.23	1.46
5	5-S	380	ILE	N-CA	63.30	2.23	1.46
5	6-S	380	ILE	N-CA	63.30	2.23	1.46
5	7-S	380	ILE	N-CA	63.30	2.23	1.46
5	8-S	380	ILE	N-CA	63.30	2.23	1.46
5	1-Y	380	ILE	N-CA	63.24	2.23	1.46
5	2-Y	380	ILE	N-CA	63.24	2.23	1.46
5	3-Y	380	ILE	N-CA	63.24	2.23	1.46
5	4-Y	380	ILE	N-CA	63.24	2.23	1.46
5	5-Y	380	ILE	N-CA	63.24	2.23	1.46
5	6-Y	380	ILE	N-CA	63.24	2.23	1.46
5	7-Y	380	ILE	N-CA	63.24	2.23	1.46
5	8-Y	380	ILE	N-CA	63.24	2.23	1.46
6	1-Z	411	GLU	CA-C	54.76	2.26	1.52
6	2-Z	411	GLU	CA-C	54.76	2.26	1.52
6	3-Z	411	GLU	CA-C	54.76	2.26	1.52
6	4-Z	411	GLU	CA-C	54.76	2.26	1.52
6	5-Z	411	GLU	CA-C	54.76	2.26	1.52
6	6-Z	411	GLU	CA-C	54.76	2.26	1.52
6	7-Z	411	GLU	CA-C	54.76	2.26	1.52
6	8-Z	411	GLU	CA-C	54.76	2.26	1.52
6	1-H	411	GLU	CA-C	54.75	2.26	1.52
6	2-H	411	GLU	CA-C	54.75	2.26	1.52
6	3-H	411	GLU	CA-C	54.75	2.26	1.52
6	4-H	411	GLU	CA-C	54.75	2.26	1.52
6	5-H	411	GLU	CA-C	54.75	2.26	1.52
6	6-H	411	GLU	CA-C	54.75	2.26	1.52
6	7-H	411	GLU	CA-C	54.75	2.26	1.52
6	8-H	411	GLU	CA-C	54.75	2.26	1.52
6	1-T	411	GLU	CA-C	54.73	2.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	411	GLU	CA-C	54.73	2.26	1.52
6	3-T	411	GLU	CA-C	54.73	2.26	1.52
6	4-T	411	GLU	CA-C	54.73	2.26	1.52
6	5-T	411	GLU	CA-C	54.73	2.26	1.52
6	6-T	411	GLU	CA-C	54.73	2.26	1.52
6	7-T	411	GLU	CA-C	54.73	2.26	1.52
6	8-T	411	GLU	CA-C	54.73	2.26	1.52
6	1-N	411	GLU	CA-C	54.70	2.26	1.52
6	2-N	411	GLU	CA-C	54.70	2.26	1.52
6	3-N	411	GLU	CA-C	54.70	2.26	1.52
6	4-N	411	GLU	CA-C	54.70	2.26	1.52
6	5-N	411	GLU	CA-C	54.70	2.26	1.52
6	6-N	411	GLU	CA-C	54.70	2.26	1.52
6	7-N	411	GLU	CA-C	54.70	2.26	1.52
6	8-N	411	GLU	CA-C	54.70	2.26	1.52
5	1-Y	379	HIS	C-N	52.56	1.99	1.33
5	2-Y	379	HIS	C-N	52.56	1.99	1.33
5	3-Y	379	HIS	C-N	52.56	1.99	1.33
5	4-Y	379	HIS	C-N	52.56	1.99	1.33
5	5-Y	379	HIS	C-N	52.56	1.99	1.33
5	6-Y	379	HIS	C-N	52.56	1.99	1.33
5	7-Y	379	HIS	C-N	52.56	1.99	1.33
5	8-Y	379	HIS	C-N	52.56	1.99	1.33
5	1-G	379	HIS	C-N	52.56	1.99	1.33
5	2-G	379	HIS	C-N	52.56	1.99	1.33
5	3-G	379	HIS	C-N	52.56	1.99	1.33
5	4-G	379	HIS	C-N	52.56	1.99	1.33
5	5-G	379	HIS	C-N	52.56	1.99	1.33
5	6-G	379	HIS	C-N	52.56	1.99	1.33
5	7-G	379	HIS	C-N	52.56	1.99	1.33
5	8-G	379	HIS	C-N	52.56	1.99	1.33
5	1-S	379	HIS	C-N	52.53	1.99	1.33
5	2-S	379	HIS	C-N	52.53	1.99	1.33
5	3-S	379	HIS	C-N	52.53	1.99	1.33
5	4-S	379	HIS	C-N	52.53	1.99	1.33
5	5-S	379	HIS	C-N	52.53	1.99	1.33
5	6-S	379	HIS	C-N	52.53	1.99	1.33
5	7-S	379	HIS	C-N	52.53	1.99	1.33
5	8-S	379	HIS	C-N	52.53	1.99	1.33
5	1-M	379	HIS	C-N	52.52	1.99	1.33
5	2-M	379	HIS	C-N	52.52	1.99	1.33
5	3-M	379	HIS	C-N	52.52	1.99	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	379	HIS	C-N	52.52	1.99	1.33
5	5-M	379	HIS	C-N	52.52	1.99	1.33
5	6-M	379	HIS	C-N	52.52	1.99	1.33
5	7-M	379	HIS	C-N	52.52	1.99	1.33
5	8-M	379	HIS	C-N	52.52	1.99	1.33
4	1-F	450	GLU	CA-C	47.81	2.16	1.52
4	2-F	450	GLU	CA-C	47.81	2.16	1.52
4	3-F	450	GLU	CA-C	47.81	2.16	1.52
4	4-F	450	GLU	CA-C	47.81	2.16	1.52
4	5-F	450	GLU	CA-C	47.81	2.16	1.52
4	6-F	450	GLU	CA-C	47.81	2.16	1.52
4	7-F	450	GLU	CA-C	47.81	2.16	1.52
4	8-F	450	GLU	CA-C	47.81	2.16	1.52
4	1-L	450	GLU	CA-C	47.79	2.16	1.52
4	2-L	450	GLU	CA-C	47.79	2.16	1.52
4	3-L	450	GLU	CA-C	47.79	2.16	1.52
4	4-L	450	GLU	CA-C	47.79	2.16	1.52
4	5-L	450	GLU	CA-C	47.79	2.16	1.52
4	6-L	450	GLU	CA-C	47.79	2.16	1.52
4	7-L	450	GLU	CA-C	47.79	2.16	1.52
4	8-L	450	GLU	CA-C	47.79	2.16	1.52
4	1-X	450	GLU	CA-C	47.78	2.16	1.52
4	2-X	450	GLU	CA-C	47.78	2.16	1.52
4	3-X	450	GLU	CA-C	47.78	2.16	1.52
4	4-X	450	GLU	CA-C	47.78	2.16	1.52
4	5-X	450	GLU	CA-C	47.78	2.16	1.52
4	6-X	450	GLU	CA-C	47.78	2.16	1.52
4	7-X	450	GLU	CA-C	47.78	2.16	1.52
4	8-X	450	GLU	CA-C	47.78	2.16	1.52
4	1-R	450	GLU	CA-C	47.74	2.16	1.52
4	2-R	450	GLU	CA-C	47.74	2.16	1.52
4	3-R	450	GLU	CA-C	47.74	2.16	1.52
4	4-R	450	GLU	CA-C	47.74	2.16	1.52
4	5-R	450	GLU	CA-C	47.74	2.16	1.52
4	6-R	450	GLU	CA-C	47.74	2.16	1.52
4	7-R	450	GLU	CA-C	47.74	2.16	1.52
4	8-R	450	GLU	CA-C	47.74	2.16	1.52
4	1-L	487	ASP	CA-C	42.84	2.13	1.52
4	2-L	487	ASP	CA-C	42.84	2.13	1.52
4	3-L	487	ASP	CA-C	42.84	2.13	1.52
4	4-L	487	ASP	CA-C	42.84	2.13	1.52
4	5-L	487	ASP	CA-C	42.84	2.13	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	487	ASP	CA-C	42.84	2.13	1.52
4	7-L	487	ASP	CA-C	42.84	2.13	1.52
4	8-L	487	ASP	CA-C	42.84	2.13	1.52
4	1-R	487	ASP	CA-C	42.83	2.13	1.52
4	2-R	487	ASP	CA-C	42.83	2.13	1.52
4	3-R	487	ASP	CA-C	42.83	2.13	1.52
4	4-R	487	ASP	CA-C	42.83	2.13	1.52
4	5-R	487	ASP	CA-C	42.83	2.13	1.52
4	6-R	487	ASP	CA-C	42.83	2.13	1.52
4	7-R	487	ASP	CA-C	42.83	2.13	1.52
4	8-R	487	ASP	CA-C	42.83	2.13	1.52
4	1-X	487	ASP	CA-C	42.82	2.13	1.52
4	2-X	487	ASP	CA-C	42.82	2.13	1.52
4	3-X	487	ASP	CA-C	42.82	2.13	1.52
4	4-X	487	ASP	CA-C	42.82	2.13	1.52
4	5-X	487	ASP	CA-C	42.82	2.13	1.52
4	6-X	487	ASP	CA-C	42.82	2.13	1.52
4	7-X	487	ASP	CA-C	42.82	2.13	1.52
4	8-X	487	ASP	CA-C	42.82	2.13	1.52
4	1-F	487	ASP	CA-C	42.81	2.13	1.52
4	2-F	487	ASP	CA-C	42.81	2.13	1.52
4	3-F	487	ASP	CA-C	42.81	2.13	1.52
4	4-F	487	ASP	CA-C	42.81	2.13	1.52
4	5-F	487	ASP	CA-C	42.81	2.13	1.52
4	6-F	487	ASP	CA-C	42.81	2.13	1.52
4	7-F	487	ASP	CA-C	42.81	2.13	1.52
4	8-F	487	ASP	CA-C	42.81	2.13	1.52
4	1-X	493	HIS	CA-C	-38.87	0.71	1.52
4	2-X	493	HIS	CA-C	-38.87	0.71	1.52
4	3-X	493	HIS	CA-C	-38.87	0.71	1.52
4	4-X	493	HIS	CA-C	-38.87	0.71	1.52
4	5-X	493	HIS	CA-C	-38.87	0.71	1.52
4	6-X	493	HIS	CA-C	-38.87	0.71	1.52
4	7-X	493	HIS	CA-C	-38.87	0.71	1.52
4	8-X	493	HIS	CA-C	-38.87	0.71	1.52
4	1-F	493	HIS	CA-C	-38.86	0.71	1.52
4	2-F	493	HIS	CA-C	-38.86	0.71	1.52
4	3-F	493	HIS	CA-C	-38.86	0.71	1.52
4	4-F	493	HIS	CA-C	-38.86	0.71	1.52
4	5-F	493	HIS	CA-C	-38.86	0.71	1.52
4	6-F	493	HIS	CA-C	-38.86	0.71	1.52
4	7-F	493	HIS	CA-C	-38.86	0.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	493	HIS	CA-C	-38.86	0.71	1.52
4	1-L	493	HIS	CA-C	-38.85	0.71	1.52
4	2-L	493	HIS	CA-C	-38.85	0.71	1.52
4	3-L	493	HIS	CA-C	-38.85	0.71	1.52
4	4-L	493	HIS	CA-C	-38.85	0.71	1.52
4	5-L	493	HIS	CA-C	-38.85	0.71	1.52
4	6-L	493	HIS	CA-C	-38.85	0.71	1.52
4	7-L	493	HIS	CA-C	-38.85	0.71	1.52
4	8-L	493	HIS	CA-C	-38.85	0.71	1.52
4	1-R	493	HIS	CA-C	-38.80	0.71	1.52
4	2-R	493	HIS	CA-C	-38.80	0.71	1.52
4	3-R	493	HIS	CA-C	-38.80	0.71	1.52
4	4-R	493	HIS	CA-C	-38.80	0.71	1.52
4	5-R	493	HIS	CA-C	-38.80	0.71	1.52
4	6-R	493	HIS	CA-C	-38.80	0.71	1.52
4	7-R	493	HIS	CA-C	-38.80	0.71	1.52
4	8-R	493	HIS	CA-C	-38.80	0.71	1.52
4	1-F	451	GLU	CA-C	36.88	2.02	1.52
4	2-F	451	GLU	CA-C	36.88	2.02	1.52
4	3-F	451	GLU	CA-C	36.88	2.02	1.52
4	4-F	451	GLU	CA-C	36.88	2.02	1.52
4	5-F	451	GLU	CA-C	36.88	2.02	1.52
4	6-F	451	GLU	CA-C	36.88	2.02	1.52
4	7-F	451	GLU	CA-C	36.88	2.02	1.52
4	8-F	451	GLU	CA-C	36.88	2.02	1.52
4	1-X	451	GLU	CA-C	36.84	2.02	1.52
4	2-X	451	GLU	CA-C	36.84	2.02	1.52
4	3-X	451	GLU	CA-C	36.84	2.02	1.52
4	4-X	451	GLU	CA-C	36.84	2.02	1.52
4	5-X	451	GLU	CA-C	36.84	2.02	1.52
4	6-X	451	GLU	CA-C	36.84	2.02	1.52
4	7-X	451	GLU	CA-C	36.84	2.02	1.52
4	8-X	451	GLU	CA-C	36.84	2.02	1.52
4	1-R	451	GLU	CA-C	36.78	2.02	1.52
4	2-R	451	GLU	CA-C	36.78	2.02	1.52
4	3-R	451	GLU	CA-C	36.78	2.02	1.52
4	4-R	451	GLU	CA-C	36.78	2.02	1.52
4	5-R	451	GLU	CA-C	36.78	2.02	1.52
4	6-R	451	GLU	CA-C	36.78	2.02	1.52
4	7-R	451	GLU	CA-C	36.78	2.02	1.52
4	8-R	451	GLU	CA-C	36.78	2.02	1.52
4	1-L	451	GLU	CA-C	36.74	2.02	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	451	GLU	CA-C	36.74	2.02	1.52
4	3-L	451	GLU	CA-C	36.74	2.02	1.52
4	4-L	451	GLU	CA-C	36.74	2.02	1.52
4	5-L	451	GLU	CA-C	36.74	2.02	1.52
4	6-L	451	GLU	CA-C	36.74	2.02	1.52
4	7-L	451	GLU	CA-C	36.74	2.02	1.52
4	8-L	451	GLU	CA-C	36.74	2.02	1.52
5	1-S	327	ARG	CA-C	36.73	2.02	1.52
5	2-S	327	ARG	CA-C	36.73	2.02	1.52
5	3-S	327	ARG	CA-C	36.73	2.02	1.52
5	4-S	327	ARG	CA-C	36.73	2.02	1.52
5	5-S	327	ARG	CA-C	36.73	2.02	1.52
5	6-S	327	ARG	CA-C	36.73	2.02	1.52
5	7-S	327	ARG	CA-C	36.73	2.02	1.52
5	8-S	327	ARG	CA-C	36.73	2.02	1.52
5	1-G	327	ARG	CA-C	36.73	2.02	1.52
5	2-G	327	ARG	CA-C	36.73	2.02	1.52
5	3-G	327	ARG	CA-C	36.73	2.02	1.52
5	4-G	327	ARG	CA-C	36.73	2.02	1.52
5	5-G	327	ARG	CA-C	36.73	2.02	1.52
5	6-G	327	ARG	CA-C	36.73	2.02	1.52
5	7-G	327	ARG	CA-C	36.73	2.02	1.52
5	8-G	327	ARG	CA-C	36.73	2.02	1.52
5	1-Y	327	ARG	CA-C	36.69	2.02	1.52
5	2-Y	327	ARG	CA-C	36.69	2.02	1.52
5	3-Y	327	ARG	CA-C	36.69	2.02	1.52
5	4-Y	327	ARG	CA-C	36.69	2.02	1.52
5	5-Y	327	ARG	CA-C	36.69	2.02	1.52
5	6-Y	327	ARG	CA-C	36.69	2.02	1.52
5	7-Y	327	ARG	CA-C	36.69	2.02	1.52
5	8-Y	327	ARG	CA-C	36.69	2.02	1.52
5	1-M	327	ARG	CA-C	36.68	2.02	1.52
5	2-M	327	ARG	CA-C	36.68	2.02	1.52
5	3-M	327	ARG	CA-C	36.68	2.02	1.52
5	4-M	327	ARG	CA-C	36.68	2.02	1.52
5	5-M	327	ARG	CA-C	36.68	2.02	1.52
5	6-M	327	ARG	CA-C	36.68	2.02	1.52
5	7-M	327	ARG	CA-C	36.68	2.02	1.52
5	8-M	327	ARG	CA-C	36.68	2.02	1.52
4	1-X	493	HIS	CA-CB	36.15	2.25	1.53
4	2-X	493	HIS	CA-CB	36.15	2.25	1.53
4	3-X	493	HIS	CA-CB	36.15	2.25	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	493	HIS	CA-CB	36.15	2.25	1.53
4	5-X	493	HIS	CA-CB	36.15	2.25	1.53
4	6-X	493	HIS	CA-CB	36.15	2.25	1.53
4	7-X	493	HIS	CA-CB	36.15	2.25	1.53
4	8-X	493	HIS	CA-CB	36.15	2.25	1.53
4	1-R	493	HIS	CA-CB	36.13	2.25	1.53
4	2-R	493	HIS	CA-CB	36.13	2.25	1.53
4	3-R	493	HIS	CA-CB	36.13	2.25	1.53
4	4-R	493	HIS	CA-CB	36.13	2.25	1.53
4	5-R	493	HIS	CA-CB	36.13	2.25	1.53
4	6-R	493	HIS	CA-CB	36.13	2.25	1.53
4	7-R	493	HIS	CA-CB	36.13	2.25	1.53
4	8-R	493	HIS	CA-CB	36.13	2.25	1.53
4	1-F	493	HIS	CA-CB	36.11	2.25	1.53
4	2-F	493	HIS	CA-CB	36.11	2.25	1.53
4	3-F	493	HIS	CA-CB	36.11	2.25	1.53
4	4-F	493	HIS	CA-CB	36.11	2.25	1.53
4	5-F	493	HIS	CA-CB	36.11	2.25	1.53
4	6-F	493	HIS	CA-CB	36.11	2.25	1.53
4	7-F	493	HIS	CA-CB	36.11	2.25	1.53
4	8-F	493	HIS	CA-CB	36.11	2.25	1.53
4	1-L	493	HIS	CA-CB	36.10	2.25	1.53
4	2-L	493	HIS	CA-CB	36.10	2.25	1.53
4	3-L	493	HIS	CA-CB	36.10	2.25	1.53
4	4-L	493	HIS	CA-CB	36.10	2.25	1.53
4	5-L	493	HIS	CA-CB	36.10	2.25	1.53
4	6-L	493	HIS	CA-CB	36.10	2.25	1.53
4	7-L	493	HIS	CA-CB	36.10	2.25	1.53
4	8-L	493	HIS	CA-CB	36.10	2.25	1.53
4	1-R	458	ASP	C-N	34.89	1.82	1.33
4	2-R	458	ASP	C-N	34.89	1.82	1.33
4	3-R	458	ASP	C-N	34.89	1.82	1.33
4	4-R	458	ASP	C-N	34.89	1.82	1.33
4	5-R	458	ASP	C-N	34.89	1.82	1.33
4	6-R	458	ASP	C-N	34.89	1.82	1.33
4	7-R	458	ASP	C-N	34.89	1.82	1.33
4	8-R	458	ASP	C-N	34.89	1.82	1.33
4	1-L	458	ASP	C-N	34.86	1.82	1.33
4	2-L	458	ASP	C-N	34.86	1.82	1.33
4	3-L	458	ASP	C-N	34.86	1.82	1.33
4	4-L	458	ASP	C-N	34.86	1.82	1.33
4	5-L	458	ASP	C-N	34.86	1.82	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	458	ASP	C-N	34.86	1.82	1.33
4	7-L	458	ASP	C-N	34.86	1.82	1.33
4	8-L	458	ASP	C-N	34.86	1.82	1.33
4	1-F	458	ASP	C-N	34.83	1.82	1.33
4	2-F	458	ASP	C-N	34.83	1.82	1.33
4	3-F	458	ASP	C-N	34.83	1.82	1.33
4	4-F	458	ASP	C-N	34.83	1.82	1.33
4	5-F	458	ASP	C-N	34.83	1.82	1.33
4	6-F	458	ASP	C-N	34.83	1.82	1.33
4	7-F	458	ASP	C-N	34.83	1.82	1.33
4	8-F	458	ASP	C-N	34.83	1.82	1.33
4	1-X	458	ASP	C-N	34.80	1.82	1.33
4	2-X	458	ASP	C-N	34.80	1.82	1.33
4	3-X	458	ASP	C-N	34.80	1.82	1.33
4	4-X	458	ASP	C-N	34.80	1.82	1.33
4	5-X	458	ASP	C-N	34.80	1.82	1.33
4	6-X	458	ASP	C-N	34.80	1.82	1.33
4	7-X	458	ASP	C-N	34.80	1.82	1.33
4	8-X	458	ASP	C-N	34.80	1.82	1.33
4	1-L	401	TYR	N-CA	34.06	1.90	1.46
4	2-L	401	TYR	N-CA	34.06	1.90	1.46
4	3-L	401	TYR	N-CA	34.06	1.90	1.46
4	4-L	401	TYR	N-CA	34.06	1.90	1.46
4	5-L	401	TYR	N-CA	34.06	1.90	1.46
4	6-L	401	TYR	N-CA	34.06	1.90	1.46
4	7-L	401	TYR	N-CA	34.06	1.90	1.46
4	8-L	401	TYR	N-CA	34.06	1.90	1.46
4	1-R	401	TYR	N-CA	34.04	1.90	1.46
4	2-R	401	TYR	N-CA	34.04	1.90	1.46
4	3-R	401	TYR	N-CA	34.04	1.90	1.46
4	4-R	401	TYR	N-CA	34.04	1.90	1.46
4	5-R	401	TYR	N-CA	34.04	1.90	1.46
4	6-R	401	TYR	N-CA	34.04	1.90	1.46
4	7-R	401	TYR	N-CA	34.04	1.90	1.46
4	8-R	401	TYR	N-CA	34.04	1.90	1.46
4	1-X	401	TYR	N-CA	34.04	1.90	1.46
4	2-X	401	TYR	N-CA	34.04	1.90	1.46
4	3-X	401	TYR	N-CA	34.04	1.90	1.46
4	4-X	401	TYR	N-CA	34.04	1.90	1.46
4	5-X	401	TYR	N-CA	34.04	1.90	1.46
4	6-X	401	TYR	N-CA	34.04	1.90	1.46
4	7-X	401	TYR	N-CA	34.04	1.90	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	401	TYR	N-CA	34.04	1.90	1.46
4	1-F	401	TYR	N-CA	34.02	1.90	1.46
4	2-F	401	TYR	N-CA	34.02	1.90	1.46
4	3-F	401	TYR	N-CA	34.02	1.90	1.46
4	4-F	401	TYR	N-CA	34.02	1.90	1.46
4	5-F	401	TYR	N-CA	34.02	1.90	1.46
4	6-F	401	TYR	N-CA	34.02	1.90	1.46
4	7-F	401	TYR	N-CA	34.02	1.90	1.46
4	8-F	401	TYR	N-CA	34.02	1.90	1.46
5	1-G	341	ALA	N-CA	33.95	1.94	1.46
5	2-G	341	ALA	N-CA	33.95	1.94	1.46
5	3-G	341	ALA	N-CA	33.95	1.94	1.46
5	4-G	341	ALA	N-CA	33.95	1.94	1.46
5	5-G	341	ALA	N-CA	33.95	1.94	1.46
5	6-G	341	ALA	N-CA	33.95	1.94	1.46
5	7-G	341	ALA	N-CA	33.95	1.94	1.46
5	8-G	341	ALA	N-CA	33.95	1.94	1.46
5	1-S	341	ALA	N-CA	33.91	1.94	1.46
5	2-S	341	ALA	N-CA	33.91	1.94	1.46
5	3-S	341	ALA	N-CA	33.91	1.94	1.46
5	4-S	341	ALA	N-CA	33.91	1.94	1.46
5	5-S	341	ALA	N-CA	33.91	1.94	1.46
5	6-S	341	ALA	N-CA	33.91	1.94	1.46
5	7-S	341	ALA	N-CA	33.91	1.94	1.46
5	8-S	341	ALA	N-CA	33.91	1.94	1.46
5	1-Y	341	ALA	N-CA	33.90	1.94	1.46
5	2-Y	341	ALA	N-CA	33.90	1.94	1.46
5	3-Y	341	ALA	N-CA	33.90	1.94	1.46
5	4-Y	341	ALA	N-CA	33.90	1.94	1.46
5	5-Y	341	ALA	N-CA	33.90	1.94	1.46
5	6-Y	341	ALA	N-CA	33.90	1.94	1.46
5	7-Y	341	ALA	N-CA	33.90	1.94	1.46
5	8-Y	341	ALA	N-CA	33.90	1.94	1.46
5	1-M	341	ALA	N-CA	33.87	1.93	1.46
5	2-M	341	ALA	N-CA	33.87	1.93	1.46
5	3-M	341	ALA	N-CA	33.87	1.93	1.46
5	4-M	341	ALA	N-CA	33.87	1.93	1.46
5	5-M	341	ALA	N-CA	33.87	1.93	1.46
5	6-M	341	ALA	N-CA	33.87	1.93	1.46
5	7-M	341	ALA	N-CA	33.87	1.93	1.46
5	8-M	341	ALA	N-CA	33.87	1.93	1.46
4	1-X	450	GLU	C-O	31.80	1.64	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	450	GLU	C-O	31.80	1.64	1.24
4	3-X	450	GLU	C-O	31.80	1.64	1.24
4	4-X	450	GLU	C-O	31.80	1.64	1.24
4	5-X	450	GLU	C-O	31.80	1.64	1.24
4	6-X	450	GLU	C-O	31.80	1.64	1.24
4	7-X	450	GLU	C-O	31.80	1.64	1.24
4	8-X	450	GLU	C-O	31.80	1.64	1.24
4	1-R	450	GLU	C-O	31.77	1.64	1.24
4	2-R	450	GLU	C-O	31.77	1.64	1.24
4	3-R	450	GLU	C-O	31.77	1.64	1.24
4	4-R	450	GLU	C-O	31.77	1.64	1.24
4	5-R	450	GLU	C-O	31.77	1.64	1.24
4	6-R	450	GLU	C-O	31.77	1.64	1.24
4	7-R	450	GLU	C-O	31.77	1.64	1.24
4	8-R	450	GLU	C-O	31.77	1.64	1.24
4	1-L	450	GLU	C-O	31.75	1.64	1.24
4	2-L	450	GLU	C-O	31.75	1.64	1.24
4	3-L	450	GLU	C-O	31.75	1.64	1.24
4	4-L	450	GLU	C-O	31.75	1.64	1.24
4	5-L	450	GLU	C-O	31.75	1.64	1.24
4	6-L	450	GLU	C-O	31.75	1.64	1.24
4	7-L	450	GLU	C-O	31.75	1.64	1.24
4	8-L	450	GLU	C-O	31.75	1.64	1.24
4	1-F	450	GLU	C-O	31.75	1.64	1.24
4	2-F	450	GLU	C-O	31.75	1.64	1.24
4	3-F	450	GLU	C-O	31.75	1.64	1.24
4	4-F	450	GLU	C-O	31.75	1.64	1.24
4	5-F	450	GLU	C-O	31.75	1.64	1.24
4	6-F	450	GLU	C-O	31.75	1.64	1.24
4	7-F	450	GLU	C-O	31.75	1.64	1.24
4	8-F	450	GLU	C-O	31.75	1.64	1.24
4	1-L	458	ASP	CA-C	31.28	1.94	1.52
4	2-L	458	ASP	CA-C	31.28	1.94	1.52
4	3-L	458	ASP	CA-C	31.28	1.94	1.52
4	4-L	458	ASP	CA-C	31.28	1.94	1.52
4	5-L	458	ASP	CA-C	31.28	1.94	1.52
4	6-L	458	ASP	CA-C	31.28	1.94	1.52
4	7-L	458	ASP	CA-C	31.28	1.94	1.52
4	8-L	458	ASP	CA-C	31.28	1.94	1.52
4	1-F	458	ASP	CA-C	31.27	1.94	1.52
4	2-F	458	ASP	CA-C	31.27	1.94	1.52
4	3-F	458	ASP	CA-C	31.27	1.94	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	458	ASP	CA-C	31.27	1.94	1.52
4	5-F	458	ASP	CA-C	31.27	1.94	1.52
4	6-F	458	ASP	CA-C	31.27	1.94	1.52
4	7-F	458	ASP	CA-C	31.27	1.94	1.52
4	8-F	458	ASP	CA-C	31.27	1.94	1.52
4	1-R	458	ASP	CA-C	31.27	1.94	1.52
4	2-R	458	ASP	CA-C	31.27	1.94	1.52
4	3-R	458	ASP	CA-C	31.27	1.94	1.52
4	4-R	458	ASP	CA-C	31.27	1.94	1.52
4	5-R	458	ASP	CA-C	31.27	1.94	1.52
4	6-R	458	ASP	CA-C	31.27	1.94	1.52
4	7-R	458	ASP	CA-C	31.27	1.94	1.52
4	8-R	458	ASP	CA-C	31.27	1.94	1.52
4	1-X	458	ASP	CA-C	31.24	1.94	1.52
4	2-X	458	ASP	CA-C	31.24	1.94	1.52
4	3-X	458	ASP	CA-C	31.24	1.94	1.52
4	4-X	458	ASP	CA-C	31.24	1.94	1.52
4	5-X	458	ASP	CA-C	31.24	1.94	1.52
4	6-X	458	ASP	CA-C	31.24	1.94	1.52
4	7-X	458	ASP	CA-C	31.24	1.94	1.52
4	8-X	458	ASP	CA-C	31.24	1.94	1.52
6	1-N	462	GLY	CA-C	30.87	1.85	1.52
6	2-N	462	GLY	CA-C	30.87	1.85	1.52
6	3-N	462	GLY	CA-C	30.87	1.85	1.52
6	4-N	462	GLY	CA-C	30.87	1.85	1.52
6	5-N	462	GLY	CA-C	30.87	1.85	1.52
6	6-N	462	GLY	CA-C	30.87	1.85	1.52
6	7-N	462	GLY	CA-C	30.87	1.85	1.52
6	8-N	462	GLY	CA-C	30.87	1.85	1.52
6	1-T	462	GLY	CA-C	30.84	1.85	1.52
6	2-T	462	GLY	CA-C	30.84	1.85	1.52
6	3-T	462	GLY	CA-C	30.84	1.85	1.52
6	4-T	462	GLY	CA-C	30.84	1.85	1.52
6	5-T	462	GLY	CA-C	30.84	1.85	1.52
6	6-T	462	GLY	CA-C	30.84	1.85	1.52
6	7-T	462	GLY	CA-C	30.84	1.85	1.52
6	8-T	462	GLY	CA-C	30.84	1.85	1.52
6	1-H	462	GLY	CA-C	30.79	1.85	1.52
6	2-H	462	GLY	CA-C	30.79	1.85	1.52
6	3-H	462	GLY	CA-C	30.79	1.85	1.52
6	4-H	462	GLY	CA-C	30.79	1.85	1.52
6	5-H	462	GLY	CA-C	30.79	1.85	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-H	462	GLY	CA-C	30.79	1.85	1.52
6	7-H	462	GLY	CA-C	30.79	1.85	1.52
6	8-H	462	GLY	CA-C	30.79	1.85	1.52
6	1-Z	462	GLY	CA-C	30.78	1.85	1.52
6	2-Z	462	GLY	CA-C	30.78	1.85	1.52
6	3-Z	462	GLY	CA-C	30.78	1.85	1.52
6	4-Z	462	GLY	CA-C	30.78	1.85	1.52
6	5-Z	462	GLY	CA-C	30.78	1.85	1.52
6	6-Z	462	GLY	CA-C	30.78	1.85	1.52
6	7-Z	462	GLY	CA-C	30.78	1.85	1.52
6	8-Z	462	GLY	CA-C	30.78	1.85	1.52
4	1-R	343	MET	N-CA	-29.78	1.09	1.46
4	2-R	343	MET	N-CA	-29.78	1.09	1.46
4	3-R	343	MET	N-CA	-29.78	1.09	1.46
4	4-R	343	MET	N-CA	-29.78	1.09	1.46
4	5-R	343	MET	N-CA	-29.78	1.09	1.46
4	6-R	343	MET	N-CA	-29.78	1.09	1.46
4	7-R	343	MET	N-CA	-29.78	1.09	1.46
4	8-R	343	MET	N-CA	-29.78	1.09	1.46
4	1-F	343	MET	N-CA	-29.74	1.09	1.46
4	2-F	343	MET	N-CA	-29.74	1.09	1.46
4	3-F	343	MET	N-CA	-29.74	1.09	1.46
4	4-F	343	MET	N-CA	-29.74	1.09	1.46
4	5-F	343	MET	N-CA	-29.74	1.09	1.46
4	6-F	343	MET	N-CA	-29.74	1.09	1.46
4	7-F	343	MET	N-CA	-29.74	1.09	1.46
4	8-F	343	MET	N-CA	-29.74	1.09	1.46
4	1-L	343	MET	N-CA	-29.73	1.09	1.46
4	2-L	343	MET	N-CA	-29.73	1.09	1.46
4	3-L	343	MET	N-CA	-29.73	1.09	1.46
4	4-L	343	MET	N-CA	-29.73	1.09	1.46
4	5-L	343	MET	N-CA	-29.73	1.09	1.46
4	6-L	343	MET	N-CA	-29.73	1.09	1.46
4	7-L	343	MET	N-CA	-29.73	1.09	1.46
4	8-L	343	MET	N-CA	-29.73	1.09	1.46
4	1-X	343	MET	N-CA	-29.68	1.09	1.46
4	2-X	343	MET	N-CA	-29.68	1.09	1.46
4	3-X	343	MET	N-CA	-29.68	1.09	1.46
4	4-X	343	MET	N-CA	-29.68	1.09	1.46
4	5-X	343	MET	N-CA	-29.68	1.09	1.46
4	6-X	343	MET	N-CA	-29.68	1.09	1.46
4	7-X	343	MET	N-CA	-29.68	1.09	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	343	MET	N-CA	-29.68	1.09	1.46
4	1-X	455	ILE	C-N	-28.86	0.99	1.33
4	2-X	455	ILE	C-N	-28.86	0.99	1.33
4	3-X	455	ILE	C-N	-28.86	0.99	1.33
4	4-X	455	ILE	C-N	-28.86	0.99	1.33
4	5-X	455	ILE	C-N	-28.86	0.99	1.33
4	6-X	455	ILE	C-N	-28.86	0.99	1.33
4	7-X	455	ILE	C-N	-28.86	0.99	1.33
4	8-X	455	ILE	C-N	-28.86	0.99	1.33
4	1-R	455	ILE	C-N	-28.84	0.99	1.33
4	2-R	455	ILE	C-N	-28.84	0.99	1.33
4	3-R	455	ILE	C-N	-28.84	0.99	1.33
4	4-R	455	ILE	C-N	-28.84	0.99	1.33
4	5-R	455	ILE	C-N	-28.84	0.99	1.33
4	6-R	455	ILE	C-N	-28.84	0.99	1.33
4	7-R	455	ILE	C-N	-28.84	0.99	1.33
4	8-R	455	ILE	C-N	-28.84	0.99	1.33
4	1-X	457	ALA	N-CA	-28.83	1.09	1.46
4	2-X	457	ALA	N-CA	-28.83	1.09	1.46
4	3-X	457	ALA	N-CA	-28.83	1.09	1.46
4	4-X	457	ALA	N-CA	-28.83	1.09	1.46
4	5-X	457	ALA	N-CA	-28.83	1.09	1.46
4	6-X	457	ALA	N-CA	-28.83	1.09	1.46
4	7-X	457	ALA	N-CA	-28.83	1.09	1.46
4	8-X	457	ALA	N-CA	-28.83	1.09	1.46
4	1-L	457	ALA	N-CA	-28.81	1.09	1.46
4	2-L	457	ALA	N-CA	-28.81	1.09	1.46
4	3-L	457	ALA	N-CA	-28.81	1.09	1.46
4	4-L	457	ALA	N-CA	-28.81	1.09	1.46
4	5-L	457	ALA	N-CA	-28.81	1.09	1.46
4	6-L	457	ALA	N-CA	-28.81	1.09	1.46
4	7-L	457	ALA	N-CA	-28.81	1.09	1.46
4	8-L	457	ALA	N-CA	-28.81	1.09	1.46
4	1-F	457	ALA	N-CA	-28.77	1.09	1.46
4	2-F	457	ALA	N-CA	-28.77	1.09	1.46
4	3-F	457	ALA	N-CA	-28.77	1.09	1.46
4	4-F	457	ALA	N-CA	-28.77	1.09	1.46
4	5-F	457	ALA	N-CA	-28.77	1.09	1.46
4	6-F	457	ALA	N-CA	-28.77	1.09	1.46
4	7-F	457	ALA	N-CA	-28.77	1.09	1.46
4	8-F	457	ALA	N-CA	-28.77	1.09	1.46
4	1-R	457	ALA	N-CA	-28.75	1.09	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	457	ALA	N-CA	-28.75	1.09	1.46
4	3-R	457	ALA	N-CA	-28.75	1.09	1.46
4	4-R	457	ALA	N-CA	-28.75	1.09	1.46
4	5-R	457	ALA	N-CA	-28.75	1.09	1.46
4	6-R	457	ALA	N-CA	-28.75	1.09	1.46
4	7-R	457	ALA	N-CA	-28.75	1.09	1.46
4	8-R	457	ALA	N-CA	-28.75	1.09	1.46
6	1-H	411	GLU	C-N	28.23	1.69	1.33
6	2-H	411	GLU	C-N	28.23	1.69	1.33
6	3-H	411	GLU	C-N	28.23	1.69	1.33
6	4-H	411	GLU	C-N	28.23	1.69	1.33
6	5-H	411	GLU	C-N	28.23	1.69	1.33
6	6-H	411	GLU	C-N	28.23	1.69	1.33
6	7-H	411	GLU	C-N	28.23	1.69	1.33
6	8-H	411	GLU	C-N	28.23	1.69	1.33
6	1-N	411	GLU	C-N	28.19	1.69	1.33
6	2-N	411	GLU	C-N	28.19	1.69	1.33
6	3-N	411	GLU	C-N	28.19	1.69	1.33
6	4-N	411	GLU	C-N	28.19	1.69	1.33
6	5-N	411	GLU	C-N	28.19	1.69	1.33
6	6-N	411	GLU	C-N	28.19	1.69	1.33
6	7-N	411	GLU	C-N	28.19	1.69	1.33
6	8-N	411	GLU	C-N	28.19	1.69	1.33
6	1-Z	411	GLU	C-N	28.16	1.69	1.33
6	2-Z	411	GLU	C-N	28.16	1.69	1.33
6	3-Z	411	GLU	C-N	28.16	1.69	1.33
6	4-Z	411	GLU	C-N	28.16	1.69	1.33
6	5-Z	411	GLU	C-N	28.16	1.69	1.33
6	6-Z	411	GLU	C-N	28.16	1.69	1.33
6	7-Z	411	GLU	C-N	28.16	1.69	1.33
6	8-Z	411	GLU	C-N	28.16	1.69	1.33
6	1-T	411	GLU	C-N	28.12	1.69	1.33
6	2-T	411	GLU	C-N	28.12	1.69	1.33
6	3-T	411	GLU	C-N	28.12	1.69	1.33
6	4-T	411	GLU	C-N	28.12	1.69	1.33
6	5-T	411	GLU	C-N	28.12	1.69	1.33
6	6-T	411	GLU	C-N	28.12	1.69	1.33
6	7-T	411	GLU	C-N	28.12	1.69	1.33
6	8-T	411	GLU	C-N	28.12	1.69	1.33
4	1-R	402	ALA	CA-C	27.50	1.89	1.52
4	2-R	402	ALA	CA-C	27.50	1.89	1.52
4	3-R	402	ALA	CA-C	27.50	1.89	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	402	ALA	CA-C	27.50	1.89	1.52
4	5-R	402	ALA	CA-C	27.50	1.89	1.52
4	6-R	402	ALA	CA-C	27.50	1.89	1.52
4	7-R	402	ALA	CA-C	27.50	1.89	1.52
4	8-R	402	ALA	CA-C	27.50	1.89	1.52
4	1-X	402	ALA	CA-C	27.46	1.89	1.52
4	2-X	402	ALA	CA-C	27.46	1.89	1.52
4	3-X	402	ALA	CA-C	27.46	1.89	1.52
4	4-X	402	ALA	CA-C	27.46	1.89	1.52
4	5-X	402	ALA	CA-C	27.46	1.89	1.52
4	6-X	402	ALA	CA-C	27.46	1.89	1.52
4	7-X	402	ALA	CA-C	27.46	1.89	1.52
4	8-X	402	ALA	CA-C	27.46	1.89	1.52
4	1-L	402	ALA	CA-C	27.45	1.89	1.52
4	2-L	402	ALA	CA-C	27.45	1.89	1.52
4	3-L	402	ALA	CA-C	27.45	1.89	1.52
4	4-L	402	ALA	CA-C	27.45	1.89	1.52
4	5-L	402	ALA	CA-C	27.45	1.89	1.52
4	6-L	402	ALA	CA-C	27.45	1.89	1.52
4	7-L	402	ALA	CA-C	27.45	1.89	1.52
4	8-L	402	ALA	CA-C	27.45	1.89	1.52
4	1-F	402	ALA	CA-C	27.42	1.89	1.52
4	2-F	402	ALA	CA-C	27.42	1.89	1.52
4	3-F	402	ALA	CA-C	27.42	1.89	1.52
4	4-F	402	ALA	CA-C	27.42	1.89	1.52
4	5-F	402	ALA	CA-C	27.42	1.89	1.52
4	6-F	402	ALA	CA-C	27.42	1.89	1.52
4	7-F	402	ALA	CA-C	27.42	1.89	1.52
4	8-F	402	ALA	CA-C	27.42	1.89	1.52
5	1-Y	339	TYR	C-N	27.25	1.72	1.33
5	2-Y	339	TYR	C-N	27.25	1.72	1.33
5	3-Y	339	TYR	C-N	27.25	1.72	1.33
5	4-Y	339	TYR	C-N	27.25	1.72	1.33
5	5-Y	339	TYR	C-N	27.25	1.72	1.33
5	6-Y	339	TYR	C-N	27.25	1.72	1.33
5	7-Y	339	TYR	C-N	27.25	1.72	1.33
5	8-Y	339	TYR	C-N	27.25	1.72	1.33
5	1-M	339	TYR	C-N	27.23	1.72	1.33
5	2-M	339	TYR	C-N	27.23	1.72	1.33
5	3-M	339	TYR	C-N	27.23	1.72	1.33
5	4-M	339	TYR	C-N	27.23	1.72	1.33
5	5-M	339	TYR	C-N	27.23	1.72	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	339	TYR	C-N	27.23	1.72	1.33
5	7-M	339	TYR	C-N	27.23	1.72	1.33
5	8-M	339	TYR	C-N	27.23	1.72	1.33
5	1-S	339	TYR	C-N	27.20	1.72	1.33
5	2-S	339	TYR	C-N	27.20	1.72	1.33
5	3-S	339	TYR	C-N	27.20	1.72	1.33
5	4-S	339	TYR	C-N	27.20	1.72	1.33
5	5-S	339	TYR	C-N	27.20	1.72	1.33
5	6-S	339	TYR	C-N	27.20	1.72	1.33
5	7-S	339	TYR	C-N	27.20	1.72	1.33
5	8-S	339	TYR	C-N	27.20	1.72	1.33
5	1-G	339	TYR	C-N	27.18	1.72	1.33
5	2-G	339	TYR	C-N	27.18	1.72	1.33
5	3-G	339	TYR	C-N	27.18	1.72	1.33
5	4-G	339	TYR	C-N	27.18	1.72	1.33
5	5-G	339	TYR	C-N	27.18	1.72	1.33
5	6-G	339	TYR	C-N	27.18	1.72	1.33
5	7-G	339	TYR	C-N	27.18	1.72	1.33
5	8-G	339	TYR	C-N	27.18	1.72	1.33
5	1-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	2-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	3-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	4-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	5-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	6-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	7-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	8-Y	341	ALA	CA-CB	-27.07	1.10	1.53
5	1-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	2-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	3-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	4-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	5-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	6-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	7-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	8-G	341	ALA	CA-CB	-27.06	1.10	1.53
5	1-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	2-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	3-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	4-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	5-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	6-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	7-S	341	ALA	CA-CB	-27.05	1.10	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	341	ALA	CA-CB	-27.05	1.10	1.53
5	1-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	2-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	3-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	4-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	5-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	6-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	7-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	8-M	341	ALA	CA-CB	-27.04	1.10	1.53
5	1-G	378	SER	CA-C	27.00	1.89	1.52
5	2-G	378	SER	CA-C	27.00	1.89	1.52
5	3-G	378	SER	CA-C	27.00	1.89	1.52
5	4-G	378	SER	CA-C	27.00	1.89	1.52
5	5-G	378	SER	CA-C	27.00	1.89	1.52
5	6-G	378	SER	CA-C	27.00	1.89	1.52
5	7-G	378	SER	CA-C	27.00	1.89	1.52
5	8-G	378	SER	CA-C	27.00	1.89	1.52
5	1-S	378	SER	CA-C	26.97	1.89	1.52
5	2-S	378	SER	CA-C	26.97	1.89	1.52
5	3-S	378	SER	CA-C	26.97	1.89	1.52
5	4-S	378	SER	CA-C	26.97	1.89	1.52
5	5-S	378	SER	CA-C	26.97	1.89	1.52
5	6-S	378	SER	CA-C	26.97	1.89	1.52
5	7-S	378	SER	CA-C	26.97	1.89	1.52
5	8-S	378	SER	CA-C	26.97	1.89	1.52
5	1-Y	378	SER	CA-C	26.97	1.89	1.52
5	2-Y	378	SER	CA-C	26.97	1.89	1.52
5	3-Y	378	SER	CA-C	26.97	1.89	1.52
5	4-Y	378	SER	CA-C	26.97	1.89	1.52
5	5-Y	378	SER	CA-C	26.97	1.89	1.52
5	6-Y	378	SER	CA-C	26.97	1.89	1.52
5	7-Y	378	SER	CA-C	26.97	1.89	1.52
5	8-Y	378	SER	CA-C	26.97	1.89	1.52
5	1-M	378	SER	CA-C	26.96	1.88	1.52
5	2-M	378	SER	CA-C	26.96	1.88	1.52
5	3-M	378	SER	CA-C	26.96	1.88	1.52
5	4-M	378	SER	CA-C	26.96	1.88	1.52
5	5-M	378	SER	CA-C	26.96	1.88	1.52
5	6-M	378	SER	CA-C	26.96	1.88	1.52
5	7-M	378	SER	CA-C	26.96	1.88	1.52
5	8-M	378	SER	CA-C	26.96	1.88	1.52
4	1-F	459	LEU	C-N	-26.74	0.98	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	459	LEU	C-N	-26.74	0.98	1.34
4	3-F	459	LEU	C-N	-26.74	0.98	1.34
4	4-F	459	LEU	C-N	-26.74	0.98	1.34
4	5-F	459	LEU	C-N	-26.74	0.98	1.34
4	6-F	459	LEU	C-N	-26.74	0.98	1.34
4	7-F	459	LEU	C-N	-26.74	0.98	1.34
4	8-F	459	LEU	C-N	-26.74	0.98	1.34
4	1-R	459	LEU	C-N	-26.74	0.98	1.34
4	2-R	459	LEU	C-N	-26.74	0.98	1.34
4	3-R	459	LEU	C-N	-26.74	0.98	1.34
4	4-R	459	LEU	C-N	-26.74	0.98	1.34
4	5-R	459	LEU	C-N	-26.74	0.98	1.34
4	6-R	459	LEU	C-N	-26.74	0.98	1.34
4	7-R	459	LEU	C-N	-26.74	0.98	1.34
4	8-R	459	LEU	C-N	-26.74	0.98	1.34
4	1-L	459	LEU	C-N	-26.73	0.98	1.34
4	2-L	459	LEU	C-N	-26.73	0.98	1.34
4	3-L	459	LEU	C-N	-26.73	0.98	1.34
4	4-L	459	LEU	C-N	-26.73	0.98	1.34
4	5-L	459	LEU	C-N	-26.73	0.98	1.34
4	6-L	459	LEU	C-N	-26.73	0.98	1.34
4	7-L	459	LEU	C-N	-26.73	0.98	1.34
4	8-L	459	LEU	C-N	-26.73	0.98	1.34
4	1-X	459	LEU	C-N	-26.72	0.98	1.34
4	2-X	459	LEU	C-N	-26.72	0.98	1.34
4	3-X	459	LEU	C-N	-26.72	0.98	1.34
4	4-X	459	LEU	C-N	-26.72	0.98	1.34
4	5-X	459	LEU	C-N	-26.72	0.98	1.34
4	6-X	459	LEU	C-N	-26.72	0.98	1.34
4	7-X	459	LEU	C-N	-26.72	0.98	1.34
4	8-X	459	LEU	C-N	-26.72	0.98	1.34
5	1-M	326	LEU	N-CA	26.51	1.80	1.46
5	2-M	326	LEU	N-CA	26.51	1.80	1.46
5	3-M	326	LEU	N-CA	26.51	1.80	1.46
5	4-M	326	LEU	N-CA	26.51	1.80	1.46
5	5-M	326	LEU	N-CA	26.51	1.80	1.46
5	6-M	326	LEU	N-CA	26.51	1.80	1.46
5	7-M	326	LEU	N-CA	26.51	1.80	1.46
5	8-M	326	LEU	N-CA	26.51	1.80	1.46
5	1-G	326	LEU	N-CA	26.49	1.80	1.46
5	1-Y	326	LEU	N-CA	26.49	1.80	1.46
5	2-G	326	LEU	N-CA	26.49	1.80	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-Y	326	LEU	N-CA	26.49	1.80	1.46
5	3-G	326	LEU	N-CA	26.49	1.80	1.46
5	3-Y	326	LEU	N-CA	26.49	1.80	1.46
5	4-G	326	LEU	N-CA	26.49	1.80	1.46
5	4-Y	326	LEU	N-CA	26.49	1.80	1.46
5	5-G	326	LEU	N-CA	26.49	1.80	1.46
5	5-Y	326	LEU	N-CA	26.49	1.80	1.46
5	6-G	326	LEU	N-CA	26.49	1.80	1.46
5	6-Y	326	LEU	N-CA	26.49	1.80	1.46
5	7-G	326	LEU	N-CA	26.49	1.80	1.46
5	7-Y	326	LEU	N-CA	26.49	1.80	1.46
5	8-G	326	LEU	N-CA	26.49	1.80	1.46
5	8-Y	326	LEU	N-CA	26.49	1.80	1.46
5	1-S	326	LEU	N-CA	26.45	1.80	1.46
5	2-S	326	LEU	N-CA	26.45	1.80	1.46
5	3-S	326	LEU	N-CA	26.45	1.80	1.46
5	4-S	326	LEU	N-CA	26.45	1.80	1.46
5	5-S	326	LEU	N-CA	26.45	1.80	1.46
5	6-S	326	LEU	N-CA	26.45	1.80	1.46
5	7-S	326	LEU	N-CA	26.45	1.80	1.46
5	8-S	326	LEU	N-CA	26.45	1.80	1.46
4	1-L	451	GLU	C-O	26.38	1.57	1.24
4	2-L	451	GLU	C-O	26.38	1.57	1.24
4	3-L	451	GLU	C-O	26.38	1.57	1.24
4	4-L	451	GLU	C-O	26.38	1.57	1.24
4	5-L	451	GLU	C-O	26.38	1.57	1.24
4	6-L	451	GLU	C-O	26.38	1.57	1.24
4	7-L	451	GLU	C-O	26.38	1.57	1.24
4	8-L	451	GLU	C-O	26.38	1.57	1.24
4	1-F	451	GLU	C-O	26.28	1.57	1.24
4	2-F	451	GLU	C-O	26.28	1.57	1.24
4	3-F	451	GLU	C-O	26.28	1.57	1.24
4	4-F	451	GLU	C-O	26.28	1.57	1.24
4	5-F	451	GLU	C-O	26.28	1.57	1.24
4	6-F	451	GLU	C-O	26.28	1.57	1.24
4	7-F	451	GLU	C-O	26.28	1.57	1.24
4	8-F	451	GLU	C-O	26.28	1.57	1.24
4	1-R	451	GLU	C-O	26.27	1.57	1.24
4	2-R	451	GLU	C-O	26.27	1.57	1.24
4	3-R	451	GLU	C-O	26.27	1.57	1.24
4	4-R	451	GLU	C-O	26.27	1.57	1.24
4	5-R	451	GLU	C-O	26.27	1.57	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	451	GLU	C-O	26.27	1.57	1.24
4	7-R	451	GLU	C-O	26.27	1.57	1.24
4	8-R	451	GLU	C-O	26.27	1.57	1.24
4	1-X	451	GLU	C-O	26.25	1.57	1.24
4	2-X	451	GLU	C-O	26.25	1.57	1.24
4	3-X	451	GLU	C-O	26.25	1.57	1.24
4	4-X	451	GLU	C-O	26.25	1.57	1.24
4	5-X	451	GLU	C-O	26.25	1.57	1.24
4	6-X	451	GLU	C-O	26.25	1.57	1.24
4	7-X	451	GLU	C-O	26.25	1.57	1.24
4	8-X	451	GLU	C-O	26.25	1.57	1.24
4	1-F	453	TYR	CA-CB	26.16	1.97	1.53
4	2-F	453	TYR	CA-CB	26.16	1.97	1.53
4	3-F	453	TYR	CA-CB	26.16	1.97	1.53
4	4-F	453	TYR	CA-CB	26.16	1.97	1.53
4	5-F	453	TYR	CA-CB	26.16	1.97	1.53
4	6-F	453	TYR	CA-CB	26.16	1.97	1.53
4	7-F	453	TYR	CA-CB	26.16	1.97	1.53
4	8-F	453	TYR	CA-CB	26.16	1.97	1.53
4	1-X	453	TYR	CA-CB	26.15	1.97	1.53
4	2-X	453	TYR	CA-CB	26.15	1.97	1.53
4	3-X	453	TYR	CA-CB	26.15	1.97	1.53
4	4-X	453	TYR	CA-CB	26.15	1.97	1.53
4	5-X	453	TYR	CA-CB	26.15	1.97	1.53
4	6-X	453	TYR	CA-CB	26.15	1.97	1.53
4	7-X	453	TYR	CA-CB	26.15	1.97	1.53
4	8-X	453	TYR	CA-CB	26.15	1.97	1.53
4	1-L	453	TYR	CA-CB	26.13	1.97	1.53
4	2-L	453	TYR	CA-CB	26.13	1.97	1.53
4	3-L	453	TYR	CA-CB	26.13	1.97	1.53
4	4-L	453	TYR	CA-CB	26.13	1.97	1.53
4	5-L	453	TYR	CA-CB	26.13	1.97	1.53
4	6-L	453	TYR	CA-CB	26.13	1.97	1.53
4	7-L	453	TYR	CA-CB	26.13	1.97	1.53
4	8-L	453	TYR	CA-CB	26.13	1.97	1.53
4	1-R	453	TYR	CA-CB	26.12	1.97	1.53
4	2-R	453	TYR	CA-CB	26.12	1.97	1.53
4	3-R	453	TYR	CA-CB	26.12	1.97	1.53
4	4-R	453	TYR	CA-CB	26.12	1.97	1.53
4	5-R	453	TYR	CA-CB	26.12	1.97	1.53
4	6-R	453	TYR	CA-CB	26.12	1.97	1.53
4	7-R	453	TYR	CA-CB	26.12	1.97	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	453	TYR	CA-CB	26.12	1.97	1.53
3	1-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	2-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	3-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	4-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	5-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	6-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	7-V	1508	LYS	CA-C	-26.08	1.17	1.52
3	8-V	1508	LYS	CA-C	-26.08	1.17	1.52
5	1-S	352	GLN	N-CA	-26.08	1.14	1.46
5	2-S	352	GLN	N-CA	-26.08	1.14	1.46
5	3-S	352	GLN	N-CA	-26.08	1.14	1.46
5	4-S	352	GLN	N-CA	-26.08	1.14	1.46
5	5-S	352	GLN	N-CA	-26.08	1.14	1.46
5	6-S	352	GLN	N-CA	-26.08	1.14	1.46
5	7-S	352	GLN	N-CA	-26.08	1.14	1.46
5	8-S	352	GLN	N-CA	-26.08	1.14	1.46
5	1-M	352	GLN	N-CA	-26.07	1.14	1.46
5	2-M	352	GLN	N-CA	-26.07	1.14	1.46
5	3-M	352	GLN	N-CA	-26.07	1.14	1.46
5	4-M	352	GLN	N-CA	-26.07	1.14	1.46
5	5-M	352	GLN	N-CA	-26.07	1.14	1.46
5	6-M	352	GLN	N-CA	-26.07	1.14	1.46
5	7-M	352	GLN	N-CA	-26.07	1.14	1.46
5	8-M	352	GLN	N-CA	-26.07	1.14	1.46
5	1-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	2-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	3-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	4-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	5-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	6-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	7-Y	352	GLN	N-CA	-26.06	1.14	1.46
5	8-Y	352	GLN	N-CA	-26.06	1.14	1.46
3	1-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	2-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	3-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	4-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	5-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	6-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	7-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	8-P	1508	LYS	CA-C	-26.05	1.17	1.52
3	1-J	1508	LYS	CA-C	-26.05	1.17	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-J	1508	LYS	CA-C	-26.05	1.17	1.52
3	3-J	1508	LYS	CA-C	-26.05	1.17	1.52
3	4-J	1508	LYS	CA-C	-26.05	1.17	1.52
3	5-J	1508	LYS	CA-C	-26.05	1.17	1.52
3	6-J	1508	LYS	CA-C	-26.05	1.17	1.52
3	7-J	1508	LYS	CA-C	-26.05	1.17	1.52
3	8-J	1508	LYS	CA-C	-26.05	1.17	1.52
5	1-G	352	GLN	N-CA	-26.03	1.14	1.46
5	2-G	352	GLN	N-CA	-26.03	1.14	1.46
5	3-G	352	GLN	N-CA	-26.03	1.14	1.46
5	4-G	352	GLN	N-CA	-26.03	1.14	1.46
5	5-G	352	GLN	N-CA	-26.03	1.14	1.46
5	6-G	352	GLN	N-CA	-26.03	1.14	1.46
5	7-G	352	GLN	N-CA	-26.03	1.14	1.46
5	8-G	352	GLN	N-CA	-26.03	1.14	1.46
3	1-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	2-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	3-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	4-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	5-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	6-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	7-D	1508	LYS	CA-C	-26.02	1.18	1.52
3	8-D	1508	LYS	CA-C	-26.02	1.18	1.52
4	1-L	492	GLU	C-N	25.94	1.69	1.33
4	2-L	492	GLU	C-N	25.94	1.69	1.33
4	3-L	492	GLU	C-N	25.94	1.69	1.33
4	4-L	492	GLU	C-N	25.94	1.69	1.33
4	5-L	492	GLU	C-N	25.94	1.69	1.33
4	6-L	492	GLU	C-N	25.94	1.69	1.33
4	7-L	492	GLU	C-N	25.94	1.69	1.33
4	8-L	492	GLU	C-N	25.94	1.69	1.33
4	1-R	492	GLU	C-N	25.93	1.69	1.33
4	2-R	492	GLU	C-N	25.93	1.69	1.33
4	3-R	492	GLU	C-N	25.93	1.69	1.33
4	4-R	492	GLU	C-N	25.93	1.69	1.33
4	5-R	492	GLU	C-N	25.93	1.69	1.33
4	6-R	492	GLU	C-N	25.93	1.69	1.33
4	7-R	492	GLU	C-N	25.93	1.69	1.33
4	8-R	492	GLU	C-N	25.93	1.69	1.33
4	1-F	492	GLU	C-N	25.93	1.69	1.33
4	2-F	492	GLU	C-N	25.93	1.69	1.33
4	3-F	492	GLU	C-N	25.93	1.69	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	492	GLU	C-N	25.93	1.69	1.33
4	5-F	492	GLU	C-N	25.93	1.69	1.33
4	6-F	492	GLU	C-N	25.93	1.69	1.33
4	7-F	492	GLU	C-N	25.93	1.69	1.33
4	8-F	492	GLU	C-N	25.93	1.69	1.33
4	1-X	492	GLU	C-N	25.91	1.69	1.33
4	2-X	492	GLU	C-N	25.91	1.69	1.33
4	3-X	492	GLU	C-N	25.91	1.69	1.33
4	4-X	492	GLU	C-N	25.91	1.69	1.33
4	5-X	492	GLU	C-N	25.91	1.69	1.33
4	6-X	492	GLU	C-N	25.91	1.69	1.33
4	7-X	492	GLU	C-N	25.91	1.69	1.33
4	8-X	492	GLU	C-N	25.91	1.69	1.33
4	1-L	455	ILE	C-N	-25.68	0.99	1.33
4	2-L	455	ILE	C-N	-25.68	0.99	1.33
4	3-L	455	ILE	C-N	-25.68	0.99	1.33
4	4-L	455	ILE	C-N	-25.68	0.99	1.33
4	5-L	455	ILE	C-N	-25.68	0.99	1.33
4	6-L	455	ILE	C-N	-25.68	0.99	1.33
4	7-L	455	ILE	C-N	-25.68	0.99	1.33
4	8-L	455	ILE	C-N	-25.68	0.99	1.33
4	1-F	455	ILE	C-N	-25.67	0.99	1.33
4	2-F	455	ILE	C-N	-25.67	0.99	1.33
4	3-F	455	ILE	C-N	-25.67	0.99	1.33
4	4-F	455	ILE	C-N	-25.67	0.99	1.33
4	5-F	455	ILE	C-N	-25.67	0.99	1.33
4	6-F	455	ILE	C-N	-25.67	0.99	1.33
4	7-F	455	ILE	C-N	-25.67	0.99	1.33
4	8-F	455	ILE	C-N	-25.67	0.99	1.33
4	1-F	400	GLY	N-CA	25.61	1.82	1.45
4	2-F	400	GLY	N-CA	25.61	1.82	1.45
4	3-F	400	GLY	N-CA	25.61	1.82	1.45
4	4-F	400	GLY	N-CA	25.61	1.82	1.45
4	5-F	400	GLY	N-CA	25.61	1.82	1.45
4	6-F	400	GLY	N-CA	25.61	1.82	1.45
4	7-F	400	GLY	N-CA	25.61	1.82	1.45
4	8-F	400	GLY	N-CA	25.61	1.82	1.45
4	1-R	400	GLY	N-CA	25.58	1.82	1.45
4	2-R	400	GLY	N-CA	25.58	1.82	1.45
4	3-R	400	GLY	N-CA	25.58	1.82	1.45
4	4-R	400	GLY	N-CA	25.58	1.82	1.45
4	5-R	400	GLY	N-CA	25.58	1.82	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	400	GLY	N-CA	25.58	1.82	1.45
4	7-R	400	GLY	N-CA	25.58	1.82	1.45
4	8-R	400	GLY	N-CA	25.58	1.82	1.45
4	1-L	400	GLY	N-CA	25.57	1.82	1.45
4	2-L	400	GLY	N-CA	25.57	1.82	1.45
4	3-L	400	GLY	N-CA	25.57	1.82	1.45
4	4-L	400	GLY	N-CA	25.57	1.82	1.45
4	5-L	400	GLY	N-CA	25.57	1.82	1.45
4	6-L	400	GLY	N-CA	25.57	1.82	1.45
4	7-L	400	GLY	N-CA	25.57	1.82	1.45
4	8-L	400	GLY	N-CA	25.57	1.82	1.45
4	1-X	400	GLY	N-CA	25.57	1.82	1.45
4	2-X	400	GLY	N-CA	25.57	1.82	1.45
4	3-X	400	GLY	N-CA	25.57	1.82	1.45
4	4-X	400	GLY	N-CA	25.57	1.82	1.45
4	5-X	400	GLY	N-CA	25.57	1.82	1.45
4	6-X	400	GLY	N-CA	25.57	1.82	1.45
4	7-X	400	GLY	N-CA	25.57	1.82	1.45
4	8-X	400	GLY	N-CA	25.57	1.82	1.45
4	1-F	459	LEU	CA-C	25.50	1.86	1.52
4	2-F	459	LEU	CA-C	25.50	1.86	1.52
4	3-F	459	LEU	CA-C	25.50	1.86	1.52
4	4-F	459	LEU	CA-C	25.50	1.86	1.52
4	5-F	459	LEU	CA-C	25.50	1.86	1.52
4	6-F	459	LEU	CA-C	25.50	1.86	1.52
4	7-F	459	LEU	CA-C	25.50	1.86	1.52
4	8-F	459	LEU	CA-C	25.50	1.86	1.52
4	1-X	459	LEU	CA-C	25.46	1.86	1.52
4	2-X	459	LEU	CA-C	25.46	1.86	1.52
4	3-X	459	LEU	CA-C	25.46	1.86	1.52
4	4-X	459	LEU	CA-C	25.46	1.86	1.52
4	5-X	459	LEU	CA-C	25.46	1.86	1.52
4	6-X	459	LEU	CA-C	25.46	1.86	1.52
4	7-X	459	LEU	CA-C	25.46	1.86	1.52
4	8-X	459	LEU	CA-C	25.46	1.86	1.52
4	1-R	459	LEU	CA-C	25.44	1.86	1.52
4	2-R	459	LEU	CA-C	25.44	1.86	1.52
4	3-R	459	LEU	CA-C	25.44	1.86	1.52
4	4-R	459	LEU	CA-C	25.44	1.86	1.52
4	5-R	459	LEU	CA-C	25.44	1.86	1.52
4	6-R	459	LEU	CA-C	25.44	1.86	1.52
4	7-R	459	LEU	CA-C	25.44	1.86	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	459	LEU	CA-C	25.44	1.86	1.52
4	1-L	459	LEU	CA-C	25.43	1.86	1.52
4	2-L	459	LEU	CA-C	25.43	1.86	1.52
4	3-L	459	LEU	CA-C	25.43	1.86	1.52
4	4-L	459	LEU	CA-C	25.43	1.86	1.52
4	5-L	459	LEU	CA-C	25.43	1.86	1.52
4	6-L	459	LEU	CA-C	25.43	1.86	1.52
4	7-L	459	LEU	CA-C	25.43	1.86	1.52
4	8-L	459	LEU	CA-C	25.43	1.86	1.52
4	1-X	299	ASN	CA-C	25.39	1.84	1.52
4	2-X	299	ASN	CA-C	25.39	1.84	1.52
4	3-X	299	ASN	CA-C	25.39	1.84	1.52
4	4-X	299	ASN	CA-C	25.39	1.84	1.52
4	5-X	299	ASN	CA-C	25.39	1.84	1.52
4	6-X	299	ASN	CA-C	25.39	1.84	1.52
4	7-X	299	ASN	CA-C	25.39	1.84	1.52
4	8-X	299	ASN	CA-C	25.39	1.84	1.52
4	1-L	299	ASN	CA-C	25.37	1.84	1.52
4	2-L	299	ASN	CA-C	25.37	1.84	1.52
4	3-L	299	ASN	CA-C	25.37	1.84	1.52
4	4-L	299	ASN	CA-C	25.37	1.84	1.52
4	5-L	299	ASN	CA-C	25.37	1.84	1.52
4	6-L	299	ASN	CA-C	25.37	1.84	1.52
4	7-L	299	ASN	CA-C	25.37	1.84	1.52
4	8-L	299	ASN	CA-C	25.37	1.84	1.52
4	1-R	299	ASN	CA-C	25.36	1.84	1.52
4	2-R	299	ASN	CA-C	25.36	1.84	1.52
4	3-R	299	ASN	CA-C	25.36	1.84	1.52
4	4-R	299	ASN	CA-C	25.36	1.84	1.52
4	5-R	299	ASN	CA-C	25.36	1.84	1.52
4	6-R	299	ASN	CA-C	25.36	1.84	1.52
4	7-R	299	ASN	CA-C	25.36	1.84	1.52
4	8-R	299	ASN	CA-C	25.36	1.84	1.52
4	1-F	299	ASN	CA-C	25.33	1.84	1.52
4	2-F	299	ASN	CA-C	25.33	1.84	1.52
4	3-F	299	ASN	CA-C	25.33	1.84	1.52
4	4-F	299	ASN	CA-C	25.33	1.84	1.52
4	5-F	299	ASN	CA-C	25.33	1.84	1.52
4	6-F	299	ASN	CA-C	25.33	1.84	1.52
4	7-F	299	ASN	CA-C	25.33	1.84	1.52
4	8-F	299	ASN	CA-C	25.33	1.84	1.52
6	1-T	409	PRO	CA-C	25.31	1.88	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	409	PRO	CA-C	25.31	1.88	1.52
6	3-T	409	PRO	CA-C	25.31	1.88	1.52
6	4-T	409	PRO	CA-C	25.31	1.88	1.52
6	5-T	409	PRO	CA-C	25.31	1.88	1.52
6	6-T	409	PRO	CA-C	25.31	1.88	1.52
6	7-T	409	PRO	CA-C	25.31	1.88	1.52
6	8-T	409	PRO	CA-C	25.31	1.88	1.52
6	1-N	409	PRO	CA-C	25.29	1.88	1.52
6	2-N	409	PRO	CA-C	25.29	1.88	1.52
6	3-N	409	PRO	CA-C	25.29	1.88	1.52
6	4-N	409	PRO	CA-C	25.29	1.88	1.52
6	5-N	409	PRO	CA-C	25.29	1.88	1.52
6	6-N	409	PRO	CA-C	25.29	1.88	1.52
6	7-N	409	PRO	CA-C	25.29	1.88	1.52
6	8-N	409	PRO	CA-C	25.29	1.88	1.52
6	1-H	409	PRO	CA-C	25.28	1.88	1.52
6	2-H	409	PRO	CA-C	25.28	1.88	1.52
6	3-H	409	PRO	CA-C	25.28	1.88	1.52
6	4-H	409	PRO	CA-C	25.28	1.88	1.52
6	5-H	409	PRO	CA-C	25.28	1.88	1.52
6	6-H	409	PRO	CA-C	25.28	1.88	1.52
6	7-H	409	PRO	CA-C	25.28	1.88	1.52
6	8-H	409	PRO	CA-C	25.28	1.88	1.52
6	1-Z	409	PRO	CA-C	25.27	1.88	1.52
6	2-Z	409	PRO	CA-C	25.27	1.88	1.52
6	3-Z	409	PRO	CA-C	25.27	1.88	1.52
6	4-Z	409	PRO	CA-C	25.27	1.88	1.52
6	5-Z	409	PRO	CA-C	25.27	1.88	1.52
6	6-Z	409	PRO	CA-C	25.27	1.88	1.52
6	7-Z	409	PRO	CA-C	25.27	1.88	1.52
6	8-Z	409	PRO	CA-C	25.27	1.88	1.52
6	1-H	374	SER	CA-CB	24.97	1.96	1.53
6	2-H	374	SER	CA-CB	24.97	1.96	1.53
6	3-H	374	SER	CA-CB	24.97	1.96	1.53
6	4-H	374	SER	CA-CB	24.97	1.96	1.53
6	5-H	374	SER	CA-CB	24.97	1.96	1.53
6	6-H	374	SER	CA-CB	24.97	1.96	1.53
6	7-H	374	SER	CA-CB	24.97	1.96	1.53
6	8-H	374	SER	CA-CB	24.97	1.96	1.53
6	1-Z	374	SER	CA-CB	24.96	1.96	1.53
6	2-Z	374	SER	CA-CB	24.96	1.96	1.53
6	3-Z	374	SER	CA-CB	24.96	1.96	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	374	SER	CA-CB	24.96	1.96	1.53
6	5-Z	374	SER	CA-CB	24.96	1.96	1.53
6	6-Z	374	SER	CA-CB	24.96	1.96	1.53
6	7-Z	374	SER	CA-CB	24.96	1.96	1.53
6	8-Z	374	SER	CA-CB	24.96	1.96	1.53
6	1-N	374	SER	CA-CB	24.95	1.96	1.53
6	1-T	374	SER	CA-CB	24.95	1.96	1.53
6	2-N	374	SER	CA-CB	24.95	1.96	1.53
6	2-T	374	SER	CA-CB	24.95	1.96	1.53
6	3-N	374	SER	CA-CB	24.95	1.96	1.53
6	3-T	374	SER	CA-CB	24.95	1.96	1.53
6	4-N	374	SER	CA-CB	24.95	1.96	1.53
6	4-T	374	SER	CA-CB	24.95	1.96	1.53
6	5-N	374	SER	CA-CB	24.95	1.96	1.53
6	5-T	374	SER	CA-CB	24.95	1.96	1.53
6	6-N	374	SER	CA-CB	24.95	1.96	1.53
6	6-T	374	SER	CA-CB	24.95	1.96	1.53
6	7-N	374	SER	CA-CB	24.95	1.96	1.53
6	7-T	374	SER	CA-CB	24.95	1.96	1.53
6	8-N	374	SER	CA-CB	24.95	1.96	1.53
6	8-T	374	SER	CA-CB	24.95	1.96	1.53
5	1-Y	343	ALA	CA-C	24.49	1.85	1.52
5	2-Y	343	ALA	CA-C	24.49	1.85	1.52
5	3-Y	343	ALA	CA-C	24.49	1.85	1.52
5	4-Y	343	ALA	CA-C	24.49	1.85	1.52
5	5-Y	343	ALA	CA-C	24.49	1.85	1.52
5	6-Y	343	ALA	CA-C	24.49	1.85	1.52
5	7-Y	343	ALA	CA-C	24.49	1.85	1.52
5	8-Y	343	ALA	CA-C	24.49	1.85	1.52
5	1-S	343	ALA	CA-C	24.48	1.85	1.52
5	2-S	343	ALA	CA-C	24.48	1.85	1.52
5	3-S	343	ALA	CA-C	24.48	1.85	1.52
5	4-S	343	ALA	CA-C	24.48	1.85	1.52
5	5-S	343	ALA	CA-C	24.48	1.85	1.52
5	6-S	343	ALA	CA-C	24.48	1.85	1.52
5	7-S	343	ALA	CA-C	24.48	1.85	1.52
5	8-S	343	ALA	CA-C	24.48	1.85	1.52
5	1-M	343	ALA	CA-C	24.47	1.85	1.52
5	2-M	343	ALA	CA-C	24.47	1.85	1.52
5	3-M	343	ALA	CA-C	24.47	1.85	1.52
5	4-M	343	ALA	CA-C	24.47	1.85	1.52
5	5-M	343	ALA	CA-C	24.47	1.85	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	343	ALA	CA-C	24.47	1.85	1.52
5	7-M	343	ALA	CA-C	24.47	1.85	1.52
5	8-M	343	ALA	CA-C	24.47	1.85	1.52
5	1-G	343	ALA	CA-C	24.47	1.85	1.52
5	2-G	343	ALA	CA-C	24.47	1.85	1.52
5	3-G	343	ALA	CA-C	24.47	1.85	1.52
5	4-G	343	ALA	CA-C	24.47	1.85	1.52
5	5-G	343	ALA	CA-C	24.47	1.85	1.52
5	6-G	343	ALA	CA-C	24.47	1.85	1.52
5	7-G	343	ALA	CA-C	24.47	1.85	1.52
5	8-G	343	ALA	CA-C	24.47	1.85	1.52
4	1-L	472	GLU	N-CA	24.37	1.76	1.46
4	2-L	472	GLU	N-CA	24.37	1.76	1.46
4	3-L	472	GLU	N-CA	24.37	1.76	1.46
4	4-L	472	GLU	N-CA	24.37	1.76	1.46
4	5-L	472	GLU	N-CA	24.37	1.76	1.46
4	6-L	472	GLU	N-CA	24.37	1.76	1.46
4	7-L	472	GLU	N-CA	24.37	1.76	1.46
4	8-L	472	GLU	N-CA	24.37	1.76	1.46
6	1-H	408	SER	CA-C	-24.35	1.22	1.52
6	2-H	408	SER	CA-C	-24.35	1.22	1.52
6	3-H	408	SER	CA-C	-24.35	1.22	1.52
6	4-H	408	SER	CA-C	-24.35	1.22	1.52
6	5-H	408	SER	CA-C	-24.35	1.22	1.52
6	6-H	408	SER	CA-C	-24.35	1.22	1.52
6	7-H	408	SER	CA-C	-24.35	1.22	1.52
6	8-H	408	SER	CA-C	-24.35	1.22	1.52
4	1-R	472	GLU	N-CA	24.34	1.76	1.46
4	2-R	472	GLU	N-CA	24.34	1.76	1.46
4	3-R	472	GLU	N-CA	24.34	1.76	1.46
4	4-R	472	GLU	N-CA	24.34	1.76	1.46
4	5-R	472	GLU	N-CA	24.34	1.76	1.46
4	6-R	472	GLU	N-CA	24.34	1.76	1.46
4	7-R	472	GLU	N-CA	24.34	1.76	1.46
4	8-R	472	GLU	N-CA	24.34	1.76	1.46
6	1-N	408	SER	CA-C	-24.33	1.22	1.52
6	2-N	408	SER	CA-C	-24.33	1.22	1.52
6	3-N	408	SER	CA-C	-24.33	1.22	1.52
6	4-N	408	SER	CA-C	-24.33	1.22	1.52
6	5-N	408	SER	CA-C	-24.33	1.22	1.52
6	6-N	408	SER	CA-C	-24.33	1.22	1.52
6	7-N	408	SER	CA-C	-24.33	1.22	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-N	408	SER	CA-C	-24.33	1.22	1.52
4	1-X	472	GLU	N-CA	24.33	1.76	1.46
4	2-X	472	GLU	N-CA	24.33	1.76	1.46
4	3-X	472	GLU	N-CA	24.33	1.76	1.46
4	4-X	472	GLU	N-CA	24.33	1.76	1.46
4	5-X	472	GLU	N-CA	24.33	1.76	1.46
4	6-X	472	GLU	N-CA	24.33	1.76	1.46
4	7-X	472	GLU	N-CA	24.33	1.76	1.46
4	8-X	472	GLU	N-CA	24.33	1.76	1.46
4	1-F	472	GLU	N-CA	24.32	1.76	1.46
4	2-F	472	GLU	N-CA	24.32	1.76	1.46
4	3-F	472	GLU	N-CA	24.32	1.76	1.46
4	4-F	472	GLU	N-CA	24.32	1.76	1.46
4	5-F	472	GLU	N-CA	24.32	1.76	1.46
4	6-F	472	GLU	N-CA	24.32	1.76	1.46
4	7-F	472	GLU	N-CA	24.32	1.76	1.46
4	8-F	472	GLU	N-CA	24.32	1.76	1.46
6	1-T	408	SER	CA-C	-24.30	1.22	1.52
6	2-T	408	SER	CA-C	-24.30	1.22	1.52
6	3-T	408	SER	CA-C	-24.30	1.22	1.52
6	4-T	408	SER	CA-C	-24.30	1.22	1.52
6	5-T	408	SER	CA-C	-24.30	1.22	1.52
6	6-T	408	SER	CA-C	-24.30	1.22	1.52
6	7-T	408	SER	CA-C	-24.30	1.22	1.52
6	8-T	408	SER	CA-C	-24.30	1.22	1.52
6	1-Z	408	SER	CA-C	-24.29	1.22	1.52
6	2-Z	408	SER	CA-C	-24.29	1.22	1.52
6	3-Z	408	SER	CA-C	-24.29	1.22	1.52
6	4-Z	408	SER	CA-C	-24.29	1.22	1.52
6	5-Z	408	SER	CA-C	-24.29	1.22	1.52
6	6-Z	408	SER	CA-C	-24.29	1.22	1.52
6	7-Z	408	SER	CA-C	-24.29	1.22	1.52
6	8-Z	408	SER	CA-C	-24.29	1.22	1.52
5	1-M	327	ARG	N-CA	24.14	1.77	1.46
5	2-M	327	ARG	N-CA	24.14	1.77	1.46
5	3-M	327	ARG	N-CA	24.14	1.77	1.46
5	4-M	327	ARG	N-CA	24.14	1.77	1.46
5	5-M	327	ARG	N-CA	24.14	1.77	1.46
5	6-M	327	ARG	N-CA	24.14	1.77	1.46
5	7-M	327	ARG	N-CA	24.14	1.77	1.46
5	8-M	327	ARG	N-CA	24.14	1.77	1.46
5	1-Y	327	ARG	N-CA	24.13	1.77	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-Y	327	ARG	N-CA	24.13	1.77	1.46
5	3-Y	327	ARG	N-CA	24.13	1.77	1.46
5	4-Y	327	ARG	N-CA	24.13	1.77	1.46
5	5-Y	327	ARG	N-CA	24.13	1.77	1.46
5	6-Y	327	ARG	N-CA	24.13	1.77	1.46
5	7-Y	327	ARG	N-CA	24.13	1.77	1.46
5	8-Y	327	ARG	N-CA	24.13	1.77	1.46
5	1-S	327	ARG	N-CA	24.11	1.77	1.46
5	2-S	327	ARG	N-CA	24.11	1.77	1.46
5	3-S	327	ARG	N-CA	24.11	1.77	1.46
5	4-S	327	ARG	N-CA	24.11	1.77	1.46
5	5-S	327	ARG	N-CA	24.11	1.77	1.46
5	6-S	327	ARG	N-CA	24.11	1.77	1.46
5	7-S	327	ARG	N-CA	24.11	1.77	1.46
5	8-S	327	ARG	N-CA	24.11	1.77	1.46
5	1-G	327	ARG	N-CA	24.10	1.77	1.46
5	2-G	327	ARG	N-CA	24.10	1.77	1.46
5	3-G	327	ARG	N-CA	24.10	1.77	1.46
5	4-G	327	ARG	N-CA	24.10	1.77	1.46
5	5-G	327	ARG	N-CA	24.10	1.77	1.46
5	6-G	327	ARG	N-CA	24.10	1.77	1.46
5	7-G	327	ARG	N-CA	24.10	1.77	1.46
5	8-G	327	ARG	N-CA	24.10	1.77	1.46
5	1-G	344	ASP	CA-C	-23.76	1.21	1.52
5	2-G	344	ASP	CA-C	-23.76	1.21	1.52
5	3-G	344	ASP	CA-C	-23.76	1.21	1.52
5	4-G	344	ASP	CA-C	-23.76	1.21	1.52
5	5-G	344	ASP	CA-C	-23.76	1.21	1.52
5	6-G	344	ASP	CA-C	-23.76	1.21	1.52
5	7-G	344	ASP	CA-C	-23.76	1.21	1.52
5	8-G	344	ASP	CA-C	-23.76	1.21	1.52
5	1-M	344	ASP	CA-C	-23.74	1.21	1.52
5	2-M	344	ASP	CA-C	-23.74	1.21	1.52
5	3-M	344	ASP	CA-C	-23.74	1.21	1.52
5	4-M	344	ASP	CA-C	-23.74	1.21	1.52
5	5-M	344	ASP	CA-C	-23.74	1.21	1.52
5	6-M	344	ASP	CA-C	-23.74	1.21	1.52
5	7-M	344	ASP	CA-C	-23.74	1.21	1.52
5	8-M	344	ASP	CA-C	-23.74	1.21	1.52
5	1-S	344	ASP	CA-C	-23.71	1.21	1.52
5	2-S	344	ASP	CA-C	-23.71	1.21	1.52
5	3-S	344	ASP	CA-C	-23.71	1.21	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-S	344	ASP	CA-C	-23.71	1.21	1.52
5	5-S	344	ASP	CA-C	-23.71	1.21	1.52
5	6-S	344	ASP	CA-C	-23.71	1.21	1.52
5	7-S	344	ASP	CA-C	-23.71	1.21	1.52
5	8-S	344	ASP	CA-C	-23.71	1.21	1.52
5	1-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	2-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	3-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	4-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	5-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	6-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	7-Y	344	ASP	CA-C	-23.70	1.21	1.52
5	8-Y	344	ASP	CA-C	-23.70	1.21	1.52
6	1-H	494	LEU	CA-C	-23.69	1.21	1.52
6	1-N	494	LEU	CA-C	-23.69	1.21	1.52
6	2-H	494	LEU	CA-C	-23.69	1.21	1.52
6	2-N	494	LEU	CA-C	-23.69	1.21	1.52
6	3-H	494	LEU	CA-C	-23.69	1.21	1.52
6	3-N	494	LEU	CA-C	-23.69	1.21	1.52
6	4-H	494	LEU	CA-C	-23.69	1.21	1.52
6	4-N	494	LEU	CA-C	-23.69	1.21	1.52
6	5-H	494	LEU	CA-C	-23.69	1.21	1.52
6	5-N	494	LEU	CA-C	-23.69	1.21	1.52
6	6-H	494	LEU	CA-C	-23.69	1.21	1.52
6	6-N	494	LEU	CA-C	-23.69	1.21	1.52
6	7-H	494	LEU	CA-C	-23.69	1.21	1.52
6	7-N	494	LEU	CA-C	-23.69	1.21	1.52
6	8-H	494	LEU	CA-C	-23.69	1.21	1.52
6	8-N	494	LEU	CA-C	-23.69	1.21	1.52
2	1-C	15	GLN	CA-C	23.66	1.84	1.52
2	1-I	15	GLN	CA-C	23.66	1.84	1.52
2	2-C	15	GLN	CA-C	23.66	1.84	1.52
2	2-I	15	GLN	CA-C	23.66	1.84	1.52
2	3-C	15	GLN	CA-C	23.66	1.84	1.52
2	3-I	15	GLN	CA-C	23.66	1.84	1.52
2	4-C	15	GLN	CA-C	23.66	1.84	1.52
2	4-I	15	GLN	CA-C	23.66	1.84	1.52
2	5-C	15	GLN	CA-C	23.66	1.84	1.52
2	5-I	15	GLN	CA-C	23.66	1.84	1.52
2	6-C	15	GLN	CA-C	23.66	1.84	1.52
2	6-I	15	GLN	CA-C	23.66	1.84	1.52
2	7-C	15	GLN	CA-C	23.66	1.84	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7-I	15	GLN	CA-C	23.66	1.84	1.52
2	8-C	15	GLN	CA-C	23.66	1.84	1.52
2	8-I	15	GLN	CA-C	23.66	1.84	1.52
2	1-U	15	GLN	CA-C	23.66	1.84	1.52
2	2-U	15	GLN	CA-C	23.66	1.84	1.52
2	3-U	15	GLN	CA-C	23.66	1.84	1.52
2	4-U	15	GLN	CA-C	23.66	1.84	1.52
2	5-U	15	GLN	CA-C	23.66	1.84	1.52
2	6-U	15	GLN	CA-C	23.66	1.84	1.52
2	7-U	15	GLN	CA-C	23.66	1.84	1.52
2	8-U	15	GLN	CA-C	23.66	1.84	1.52
6	1-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	2-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	3-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	4-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	5-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	6-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	7-Z	494	LEU	CA-C	-23.65	1.21	1.52
6	8-Z	494	LEU	CA-C	-23.65	1.21	1.52
4	1-X	367	THR	CA-C	23.64	1.85	1.52
4	2-X	367	THR	CA-C	23.64	1.85	1.52
4	3-X	367	THR	CA-C	23.64	1.85	1.52
4	4-X	367	THR	CA-C	23.64	1.85	1.52
4	5-X	367	THR	CA-C	23.64	1.85	1.52
4	6-X	367	THR	CA-C	23.64	1.85	1.52
4	7-X	367	THR	CA-C	23.64	1.85	1.52
4	8-X	367	THR	CA-C	23.64	1.85	1.52
4	1-R	367	THR	CA-C	23.63	1.85	1.52
4	2-R	367	THR	CA-C	23.63	1.85	1.52
4	3-R	367	THR	CA-C	23.63	1.85	1.52
4	4-R	367	THR	CA-C	23.63	1.85	1.52
4	5-R	367	THR	CA-C	23.63	1.85	1.52
4	6-R	367	THR	CA-C	23.63	1.85	1.52
4	7-R	367	THR	CA-C	23.63	1.85	1.52
4	8-R	367	THR	CA-C	23.63	1.85	1.52
4	1-L	367	THR	CA-C	23.63	1.85	1.52
4	2-L	367	THR	CA-C	23.63	1.85	1.52
4	3-L	367	THR	CA-C	23.63	1.85	1.52
4	4-L	367	THR	CA-C	23.63	1.85	1.52
4	5-L	367	THR	CA-C	23.63	1.85	1.52
4	6-L	367	THR	CA-C	23.63	1.85	1.52
4	7-L	367	THR	CA-C	23.63	1.85	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	367	THR	CA-C	23.63	1.85	1.52
2	1-O	15	GLN	CA-C	23.63	1.84	1.52
2	2-O	15	GLN	CA-C	23.63	1.84	1.52
2	3-O	15	GLN	CA-C	23.63	1.84	1.52
2	4-O	15	GLN	CA-C	23.63	1.84	1.52
2	5-O	15	GLN	CA-C	23.63	1.84	1.52
2	6-O	15	GLN	CA-C	23.63	1.84	1.52
2	7-O	15	GLN	CA-C	23.63	1.84	1.52
2	8-O	15	GLN	CA-C	23.63	1.84	1.52
6	1-T	494	LEU	CA-C	-23.62	1.21	1.52
6	2-T	494	LEU	CA-C	-23.62	1.21	1.52
6	3-T	494	LEU	CA-C	-23.62	1.21	1.52
6	4-T	494	LEU	CA-C	-23.62	1.21	1.52
6	5-T	494	LEU	CA-C	-23.62	1.21	1.52
6	6-T	494	LEU	CA-C	-23.62	1.21	1.52
6	7-T	494	LEU	CA-C	-23.62	1.21	1.52
6	8-T	494	LEU	CA-C	-23.62	1.21	1.52
4	1-F	367	THR	CA-C	23.61	1.85	1.52
4	2-F	367	THR	CA-C	23.61	1.85	1.52
4	3-F	367	THR	CA-C	23.61	1.85	1.52
4	4-F	367	THR	CA-C	23.61	1.85	1.52
4	5-F	367	THR	CA-C	23.61	1.85	1.52
4	6-F	367	THR	CA-C	23.61	1.85	1.52
4	7-F	367	THR	CA-C	23.61	1.85	1.52
4	8-F	367	THR	CA-C	23.61	1.85	1.52
5	1-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	2-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	3-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	4-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	5-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	6-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	7-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	8-Y	340	ALA	N-CA	-23.41	1.17	1.46
5	1-M	340	ALA	N-CA	-23.39	1.17	1.46
5	2-M	340	ALA	N-CA	-23.39	1.17	1.46
5	3-M	340	ALA	N-CA	-23.39	1.17	1.46
5	4-M	340	ALA	N-CA	-23.39	1.17	1.46
5	5-M	340	ALA	N-CA	-23.39	1.17	1.46
5	6-M	340	ALA	N-CA	-23.39	1.17	1.46
5	7-M	340	ALA	N-CA	-23.39	1.17	1.46
5	8-M	340	ALA	N-CA	-23.39	1.17	1.46
5	1-G	379	HIS	N-CA	23.36	1.76	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-S	340	ALA	N-CA	-23.36	1.17	1.46
5	2-G	379	HIS	N-CA	23.36	1.76	1.46
5	2-S	340	ALA	N-CA	-23.36	1.17	1.46
5	3-G	379	HIS	N-CA	23.36	1.76	1.46
5	3-S	340	ALA	N-CA	-23.36	1.17	1.46
5	4-G	379	HIS	N-CA	23.36	1.76	1.46
5	4-S	340	ALA	N-CA	-23.36	1.17	1.46
5	5-G	379	HIS	N-CA	23.36	1.76	1.46
5	5-S	340	ALA	N-CA	-23.36	1.17	1.46
5	6-G	379	HIS	N-CA	23.36	1.76	1.46
5	6-S	340	ALA	N-CA	-23.36	1.17	1.46
5	7-G	379	HIS	N-CA	23.36	1.76	1.46
5	7-S	340	ALA	N-CA	-23.36	1.17	1.46
5	8-G	379	HIS	N-CA	23.36	1.76	1.46
5	8-S	340	ALA	N-CA	-23.36	1.17	1.46
5	1-G	340	ALA	N-CA	-23.35	1.17	1.46
5	2-G	340	ALA	N-CA	-23.35	1.17	1.46
5	3-G	340	ALA	N-CA	-23.35	1.17	1.46
5	4-G	340	ALA	N-CA	-23.35	1.17	1.46
5	5-G	340	ALA	N-CA	-23.35	1.17	1.46
5	6-G	340	ALA	N-CA	-23.35	1.17	1.46
5	7-G	340	ALA	N-CA	-23.35	1.17	1.46
5	8-G	340	ALA	N-CA	-23.35	1.17	1.46
5	1-S	379	HIS	N-CA	23.34	1.76	1.46
5	1-Y	379	HIS	N-CA	23.34	1.76	1.46
5	2-S	379	HIS	N-CA	23.34	1.76	1.46
5	2-Y	379	HIS	N-CA	23.34	1.76	1.46
5	3-S	379	HIS	N-CA	23.34	1.76	1.46
5	3-Y	379	HIS	N-CA	23.34	1.76	1.46
5	4-S	379	HIS	N-CA	23.34	1.76	1.46
5	4-Y	379	HIS	N-CA	23.34	1.76	1.46
5	5-S	379	HIS	N-CA	23.34	1.76	1.46
5	5-Y	379	HIS	N-CA	23.34	1.76	1.46
5	6-S	379	HIS	N-CA	23.34	1.76	1.46
5	6-Y	379	HIS	N-CA	23.34	1.76	1.46
5	7-S	379	HIS	N-CA	23.34	1.76	1.46
5	7-Y	379	HIS	N-CA	23.34	1.76	1.46
5	8-S	379	HIS	N-CA	23.34	1.76	1.46
5	8-Y	379	HIS	N-CA	23.34	1.76	1.46
5	1-M	379	HIS	N-CA	23.32	1.76	1.46
5	2-M	379	HIS	N-CA	23.32	1.76	1.46
5	3-M	379	HIS	N-CA	23.32	1.76	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	379	HIS	N-CA	23.32	1.76	1.46
5	5-M	379	HIS	N-CA	23.32	1.76	1.46
5	6-M	379	HIS	N-CA	23.32	1.76	1.46
5	7-M	379	HIS	N-CA	23.32	1.76	1.46
5	8-M	379	HIS	N-CA	23.32	1.76	1.46
4	1-X	454	TYR	CA-C	23.20	1.83	1.52
4	2-X	454	TYR	CA-C	23.20	1.83	1.52
4	3-X	454	TYR	CA-C	23.20	1.83	1.52
4	4-X	454	TYR	CA-C	23.20	1.83	1.52
4	5-X	454	TYR	CA-C	23.20	1.83	1.52
4	6-X	454	TYR	CA-C	23.20	1.83	1.52
4	7-X	454	TYR	CA-C	23.20	1.83	1.52
4	8-X	454	TYR	CA-C	23.20	1.83	1.52
4	1-R	454	TYR	CA-C	23.18	1.83	1.52
4	2-R	454	TYR	CA-C	23.18	1.83	1.52
4	3-R	454	TYR	CA-C	23.18	1.83	1.52
4	4-R	454	TYR	CA-C	23.18	1.83	1.52
4	5-R	454	TYR	CA-C	23.18	1.83	1.52
4	6-R	454	TYR	CA-C	23.18	1.83	1.52
4	7-R	454	TYR	CA-C	23.18	1.83	1.52
4	8-R	454	TYR	CA-C	23.18	1.83	1.52
4	1-L	454	TYR	CA-C	23.16	1.83	1.52
4	2-L	454	TYR	CA-C	23.16	1.83	1.52
4	3-L	454	TYR	CA-C	23.16	1.83	1.52
4	4-L	454	TYR	CA-C	23.16	1.83	1.52
4	5-L	454	TYR	CA-C	23.16	1.83	1.52
4	6-L	454	TYR	CA-C	23.16	1.83	1.52
4	7-L	454	TYR	CA-C	23.16	1.83	1.52
4	8-L	454	TYR	CA-C	23.16	1.83	1.52
4	1-F	454	TYR	CA-C	23.16	1.83	1.52
4	2-F	454	TYR	CA-C	23.16	1.83	1.52
4	3-F	454	TYR	CA-C	23.16	1.83	1.52
4	4-F	454	TYR	CA-C	23.16	1.83	1.52
4	5-F	454	TYR	CA-C	23.16	1.83	1.52
4	6-F	454	TYR	CA-C	23.16	1.83	1.52
4	7-F	454	TYR	CA-C	23.16	1.83	1.52
4	8-F	454	TYR	CA-C	23.16	1.83	1.52
2	1-U	28	HIS	CA-C	-23.07	1.25	1.52
2	2-U	28	HIS	CA-C	-23.07	1.25	1.52
2	3-U	28	HIS	CA-C	-23.07	1.25	1.52
2	4-U	28	HIS	CA-C	-23.07	1.25	1.52
2	5-U	28	HIS	CA-C	-23.07	1.25	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6-U	28	HIS	CA-C	-23.07	1.25	1.52
2	7-U	28	HIS	CA-C	-23.07	1.25	1.52
2	8-U	28	HIS	CA-C	-23.07	1.25	1.52
2	1-C	28	HIS	CA-C	-23.04	1.25	1.52
2	2-C	28	HIS	CA-C	-23.04	1.25	1.52
2	3-C	28	HIS	CA-C	-23.04	1.25	1.52
2	4-C	28	HIS	CA-C	-23.04	1.25	1.52
2	5-C	28	HIS	CA-C	-23.04	1.25	1.52
2	6-C	28	HIS	CA-C	-23.04	1.25	1.52
2	7-C	28	HIS	CA-C	-23.04	1.25	1.52
2	8-C	28	HIS	CA-C	-23.04	1.25	1.52
2	1-I	28	HIS	CA-C	-23.02	1.25	1.52
2	2-I	28	HIS	CA-C	-23.02	1.25	1.52
2	3-I	28	HIS	CA-C	-23.02	1.25	1.52
2	4-I	28	HIS	CA-C	-23.02	1.25	1.52
2	5-I	28	HIS	CA-C	-23.02	1.25	1.52
2	6-I	28	HIS	CA-C	-23.02	1.25	1.52
2	7-I	28	HIS	CA-C	-23.02	1.25	1.52
2	8-I	28	HIS	CA-C	-23.02	1.25	1.52
2	1-O	28	HIS	CA-C	-23.00	1.25	1.52
2	2-O	28	HIS	CA-C	-23.00	1.25	1.52
2	3-O	28	HIS	CA-C	-23.00	1.25	1.52
2	4-O	28	HIS	CA-C	-23.00	1.25	1.52
2	5-O	28	HIS	CA-C	-23.00	1.25	1.52
2	6-O	28	HIS	CA-C	-23.00	1.25	1.52
2	7-O	28	HIS	CA-C	-23.00	1.25	1.52
2	8-O	28	HIS	CA-C	-23.00	1.25	1.52
4	1-F	453	TYR	N-CA	22.69	1.75	1.46
4	2-F	453	TYR	N-CA	22.69	1.75	1.46
4	3-F	453	TYR	N-CA	22.69	1.75	1.46
4	4-F	453	TYR	N-CA	22.69	1.75	1.46
4	5-F	453	TYR	N-CA	22.69	1.75	1.46
4	6-F	453	TYR	N-CA	22.69	1.75	1.46
4	7-F	453	TYR	N-CA	22.69	1.75	1.46
4	8-F	453	TYR	N-CA	22.69	1.75	1.46
4	1-L	453	TYR	N-CA	22.68	1.75	1.46
4	2-L	453	TYR	N-CA	22.68	1.75	1.46
4	3-L	453	TYR	N-CA	22.68	1.75	1.46
4	4-L	453	TYR	N-CA	22.68	1.75	1.46
4	5-L	453	TYR	N-CA	22.68	1.75	1.46
4	6-L	453	TYR	N-CA	22.68	1.75	1.46
4	7-L	453	TYR	N-CA	22.68	1.75	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	453	TYR	N-CA	22.68	1.75	1.46
4	1-R	453	TYR	N-CA	22.68	1.75	1.46
4	2-R	453	TYR	N-CA	22.68	1.75	1.46
4	3-R	453	TYR	N-CA	22.68	1.75	1.46
4	4-R	453	TYR	N-CA	22.68	1.75	1.46
4	5-R	453	TYR	N-CA	22.68	1.75	1.46
4	6-R	453	TYR	N-CA	22.68	1.75	1.46
4	7-R	453	TYR	N-CA	22.68	1.75	1.46
4	8-R	453	TYR	N-CA	22.68	1.75	1.46
4	1-X	453	TYR	N-CA	22.65	1.75	1.46
4	2-X	453	TYR	N-CA	22.65	1.75	1.46
4	3-X	453	TYR	N-CA	22.65	1.75	1.46
4	4-X	453	TYR	N-CA	22.65	1.75	1.46
4	5-X	453	TYR	N-CA	22.65	1.75	1.46
4	6-X	453	TYR	N-CA	22.65	1.75	1.46
4	7-X	453	TYR	N-CA	22.65	1.75	1.46
4	8-X	453	TYR	N-CA	22.65	1.75	1.46
4	1-R	454	TYR	C-N	22.27	1.64	1.33
4	2-R	454	TYR	C-N	22.27	1.64	1.33
4	3-R	454	TYR	C-N	22.27	1.64	1.33
4	4-R	454	TYR	C-N	22.27	1.64	1.33
4	5-R	454	TYR	C-N	22.27	1.64	1.33
4	6-R	454	TYR	C-N	22.27	1.64	1.33
4	7-R	454	TYR	C-N	22.27	1.64	1.33
4	8-R	454	TYR	C-N	22.27	1.64	1.33
6	1-T	363	ARG	CA-C	-22.26	1.23	1.52
6	2-T	363	ARG	CA-C	-22.26	1.23	1.52
6	3-T	363	ARG	CA-C	-22.26	1.23	1.52
6	4-T	363	ARG	CA-C	-22.26	1.23	1.52
6	5-T	363	ARG	CA-C	-22.26	1.23	1.52
6	6-T	363	ARG	CA-C	-22.26	1.23	1.52
6	7-T	363	ARG	CA-C	-22.26	1.23	1.52
6	8-T	363	ARG	CA-C	-22.26	1.23	1.52
4	1-F	454	TYR	C-N	22.25	1.63	1.33
4	2-F	454	TYR	C-N	22.25	1.63	1.33
4	3-F	454	TYR	C-N	22.25	1.63	1.33
4	4-F	454	TYR	C-N	22.25	1.63	1.33
4	5-F	454	TYR	C-N	22.25	1.63	1.33
4	6-F	454	TYR	C-N	22.25	1.63	1.33
4	7-F	454	TYR	C-N	22.25	1.63	1.33
4	8-F	454	TYR	C-N	22.25	1.63	1.33
4	1-L	454	TYR	C-N	22.23	1.63	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	454	TYR	C-N	22.23	1.63	1.33
4	3-L	454	TYR	C-N	22.23	1.63	1.33
4	4-L	454	TYR	C-N	22.23	1.63	1.33
4	5-L	454	TYR	C-N	22.23	1.63	1.33
4	6-L	454	TYR	C-N	22.23	1.63	1.33
4	7-L	454	TYR	C-N	22.23	1.63	1.33
4	8-L	454	TYR	C-N	22.23	1.63	1.33
6	1-N	363	ARG	CA-C	-22.22	1.23	1.52
6	2-N	363	ARG	CA-C	-22.22	1.23	1.52
6	3-N	363	ARG	CA-C	-22.22	1.23	1.52
6	4-N	363	ARG	CA-C	-22.22	1.23	1.52
6	5-N	363	ARG	CA-C	-22.22	1.23	1.52
6	6-N	363	ARG	CA-C	-22.22	1.23	1.52
6	7-N	363	ARG	CA-C	-22.22	1.23	1.52
6	8-N	363	ARG	CA-C	-22.22	1.23	1.52
6	1-H	363	ARG	CA-C	-22.22	1.23	1.52
6	2-H	363	ARG	CA-C	-22.22	1.23	1.52
6	3-H	363	ARG	CA-C	-22.22	1.23	1.52
6	4-H	363	ARG	CA-C	-22.22	1.23	1.52
6	5-H	363	ARG	CA-C	-22.22	1.23	1.52
6	6-H	363	ARG	CA-C	-22.22	1.23	1.52
6	7-H	363	ARG	CA-C	-22.22	1.23	1.52
6	8-H	363	ARG	CA-C	-22.22	1.23	1.52
4	1-X	454	TYR	C-N	22.20	1.63	1.33
4	2-X	454	TYR	C-N	22.20	1.63	1.33
4	3-X	454	TYR	C-N	22.20	1.63	1.33
4	4-X	454	TYR	C-N	22.20	1.63	1.33
4	5-X	454	TYR	C-N	22.20	1.63	1.33
4	6-X	454	TYR	C-N	22.20	1.63	1.33
4	7-X	454	TYR	C-N	22.20	1.63	1.33
4	8-X	454	TYR	C-N	22.20	1.63	1.33
6	1-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	2-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	3-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	4-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	5-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	6-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	7-Z	363	ARG	CA-C	-22.17	1.23	1.52
6	8-Z	363	ARG	CA-C	-22.17	1.23	1.52
5	1-M	276	SER	CA-C	22.17	1.82	1.52
5	2-M	276	SER	CA-C	22.17	1.82	1.52
5	3-M	276	SER	CA-C	22.17	1.82	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	276	SER	CA-C	22.17	1.82	1.52
5	5-M	276	SER	CA-C	22.17	1.82	1.52
5	6-M	276	SER	CA-C	22.17	1.82	1.52
5	7-M	276	SER	CA-C	22.17	1.82	1.52
5	8-M	276	SER	CA-C	22.17	1.82	1.52
5	1-G	276	SER	CA-C	22.16	1.82	1.52
5	2-G	276	SER	CA-C	22.16	1.82	1.52
5	3-G	276	SER	CA-C	22.16	1.82	1.52
5	4-G	276	SER	CA-C	22.16	1.82	1.52
5	5-G	276	SER	CA-C	22.16	1.82	1.52
5	6-G	276	SER	CA-C	22.16	1.82	1.52
5	7-G	276	SER	CA-C	22.16	1.82	1.52
5	8-G	276	SER	CA-C	22.16	1.82	1.52
5	1-S	276	SER	CA-C	22.15	1.82	1.52
5	2-S	276	SER	CA-C	22.15	1.82	1.52
5	3-S	276	SER	CA-C	22.15	1.82	1.52
5	4-S	276	SER	CA-C	22.15	1.82	1.52
5	5-S	276	SER	CA-C	22.15	1.82	1.52
5	6-S	276	SER	CA-C	22.15	1.82	1.52
5	7-S	276	SER	CA-C	22.15	1.82	1.52
5	8-S	276	SER	CA-C	22.15	1.82	1.52
5	1-Y	276	SER	CA-C	22.09	1.82	1.52
5	2-Y	276	SER	CA-C	22.09	1.82	1.52
5	3-Y	276	SER	CA-C	22.09	1.82	1.52
5	4-Y	276	SER	CA-C	22.09	1.82	1.52
5	5-Y	276	SER	CA-C	22.09	1.82	1.52
5	6-Y	276	SER	CA-C	22.09	1.82	1.52
5	7-Y	276	SER	CA-C	22.09	1.82	1.52
5	8-Y	276	SER	CA-C	22.09	1.82	1.52
4	1-L	455	ILE	CA-CB	21.79	1.84	1.54
4	2-L	455	ILE	CA-CB	21.79	1.84	1.54
4	3-L	455	ILE	CA-CB	21.79	1.84	1.54
4	4-L	455	ILE	CA-CB	21.79	1.84	1.54
4	5-L	455	ILE	CA-CB	21.79	1.84	1.54
4	6-L	455	ILE	CA-CB	21.79	1.84	1.54
4	7-L	455	ILE	CA-CB	21.79	1.84	1.54
4	8-L	455	ILE	CA-CB	21.79	1.84	1.54
4	1-R	455	ILE	CA-CB	21.78	1.84	1.54
4	2-R	455	ILE	CA-CB	21.78	1.84	1.54
4	3-R	455	ILE	CA-CB	21.78	1.84	1.54
4	4-R	455	ILE	CA-CB	21.78	1.84	1.54
4	5-R	455	ILE	CA-CB	21.78	1.84	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	455	ILE	CA-CB	21.78	1.84	1.54
4	7-R	455	ILE	CA-CB	21.78	1.84	1.54
4	8-R	455	ILE	CA-CB	21.78	1.84	1.54
4	1-F	455	ILE	CA-CB	21.77	1.84	1.54
4	2-F	455	ILE	CA-CB	21.77	1.84	1.54
4	3-F	455	ILE	CA-CB	21.77	1.84	1.54
4	4-F	455	ILE	CA-CB	21.77	1.84	1.54
4	5-F	455	ILE	CA-CB	21.77	1.84	1.54
4	6-F	455	ILE	CA-CB	21.77	1.84	1.54
4	7-F	455	ILE	CA-CB	21.77	1.84	1.54
4	8-F	455	ILE	CA-CB	21.77	1.84	1.54
4	1-X	455	ILE	CA-CB	21.75	1.84	1.54
4	2-X	455	ILE	CA-CB	21.75	1.84	1.54
4	3-X	455	ILE	CA-CB	21.75	1.84	1.54
4	4-X	455	ILE	CA-CB	21.75	1.84	1.54
4	5-X	455	ILE	CA-CB	21.75	1.84	1.54
4	6-X	455	ILE	CA-CB	21.75	1.84	1.54
4	7-X	455	ILE	CA-CB	21.75	1.84	1.54
4	8-X	455	ILE	CA-CB	21.75	1.84	1.54
4	1-L	335	ARG	CA-C	-21.70	1.25	1.52
4	2-L	335	ARG	CA-C	-21.70	1.25	1.52
4	3-L	335	ARG	CA-C	-21.70	1.25	1.52
4	4-L	335	ARG	CA-C	-21.70	1.25	1.52
4	5-L	335	ARG	CA-C	-21.70	1.25	1.52
4	6-L	335	ARG	CA-C	-21.70	1.25	1.52
4	7-L	335	ARG	CA-C	-21.70	1.25	1.52
4	8-L	335	ARG	CA-C	-21.70	1.25	1.52
4	1-X	335	ARG	CA-C	-21.70	1.25	1.52
4	2-X	335	ARG	CA-C	-21.70	1.25	1.52
4	3-X	335	ARG	CA-C	-21.70	1.25	1.52
4	4-X	335	ARG	CA-C	-21.70	1.25	1.52
4	5-X	335	ARG	CA-C	-21.70	1.25	1.52
4	6-X	335	ARG	CA-C	-21.70	1.25	1.52
4	7-X	335	ARG	CA-C	-21.70	1.25	1.52
4	8-X	335	ARG	CA-C	-21.70	1.25	1.52
4	1-F	335	ARG	CA-C	-21.66	1.25	1.52
4	2-F	335	ARG	CA-C	-21.66	1.25	1.52
4	3-F	335	ARG	CA-C	-21.66	1.25	1.52
4	4-F	335	ARG	CA-C	-21.66	1.25	1.52
4	5-F	335	ARG	CA-C	-21.66	1.25	1.52
4	6-F	335	ARG	CA-C	-21.66	1.25	1.52
4	7-F	335	ARG	CA-C	-21.66	1.25	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	335	ARG	CA-C	-21.66	1.25	1.52
4	1-R	335	ARG	CA-C	-21.61	1.25	1.52
4	2-R	335	ARG	CA-C	-21.61	1.25	1.52
4	3-R	335	ARG	CA-C	-21.61	1.25	1.52
4	4-R	335	ARG	CA-C	-21.61	1.25	1.52
4	5-R	335	ARG	CA-C	-21.61	1.25	1.52
4	6-R	335	ARG	CA-C	-21.61	1.25	1.52
4	7-R	335	ARG	CA-C	-21.61	1.25	1.52
4	8-R	335	ARG	CA-C	-21.61	1.25	1.52
4	1-L	453	TYR	C-O	21.35	1.50	1.24
4	2-L	453	TYR	C-O	21.35	1.50	1.24
4	3-L	453	TYR	C-O	21.35	1.50	1.24
4	4-L	453	TYR	C-O	21.35	1.50	1.24
4	5-L	453	TYR	C-O	21.35	1.50	1.24
4	6-L	453	TYR	C-O	21.35	1.50	1.24
4	7-L	453	TYR	C-O	21.35	1.50	1.24
4	8-L	453	TYR	C-O	21.35	1.50	1.24
4	1-R	453	TYR	C-O	21.32	1.50	1.24
4	2-R	453	TYR	C-O	21.32	1.50	1.24
4	3-R	453	TYR	C-O	21.32	1.50	1.24
4	4-R	453	TYR	C-O	21.32	1.50	1.24
4	5-R	453	TYR	C-O	21.32	1.50	1.24
4	6-R	453	TYR	C-O	21.32	1.50	1.24
4	7-R	453	TYR	C-O	21.32	1.50	1.24
4	8-R	453	TYR	C-O	21.32	1.50	1.24
4	1-X	453	TYR	C-O	21.31	1.50	1.24
4	2-X	453	TYR	C-O	21.31	1.50	1.24
4	3-X	453	TYR	C-O	21.31	1.50	1.24
4	4-X	453	TYR	C-O	21.31	1.50	1.24
4	5-X	453	TYR	C-O	21.31	1.50	1.24
4	6-X	453	TYR	C-O	21.31	1.50	1.24
4	7-X	453	TYR	C-O	21.31	1.50	1.24
4	8-X	453	TYR	C-O	21.31	1.50	1.24
4	1-F	453	TYR	C-O	21.27	1.50	1.24
4	2-F	453	TYR	C-O	21.27	1.50	1.24
4	3-F	453	TYR	C-O	21.27	1.50	1.24
4	4-F	453	TYR	C-O	21.27	1.50	1.24
4	5-F	453	TYR	C-O	21.27	1.50	1.24
4	6-F	453	TYR	C-O	21.27	1.50	1.24
4	7-F	453	TYR	C-O	21.27	1.50	1.24
4	8-F	453	TYR	C-O	21.27	1.50	1.24
5	1-G	328	THR	CA-C	-21.22	1.23	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-G	328	THR	CA-C	-21.22	1.23	1.52
5	3-G	328	THR	CA-C	-21.22	1.23	1.52
5	4-G	328	THR	CA-C	-21.22	1.23	1.52
5	5-G	328	THR	CA-C	-21.22	1.23	1.52
5	6-G	328	THR	CA-C	-21.22	1.23	1.52
5	7-G	328	THR	CA-C	-21.22	1.23	1.52
5	8-G	328	THR	CA-C	-21.22	1.23	1.52
5	1-S	328	THR	CA-C	-21.22	1.23	1.52
5	2-S	328	THR	CA-C	-21.22	1.23	1.52
5	3-S	328	THR	CA-C	-21.22	1.23	1.52
5	4-S	328	THR	CA-C	-21.22	1.23	1.52
5	5-S	328	THR	CA-C	-21.22	1.23	1.52
5	6-S	328	THR	CA-C	-21.22	1.23	1.52
5	7-S	328	THR	CA-C	-21.22	1.23	1.52
5	8-S	328	THR	CA-C	-21.22	1.23	1.52
5	1-Y	328	THR	CA-C	-21.21	1.23	1.52
5	2-Y	328	THR	CA-C	-21.21	1.23	1.52
5	3-Y	328	THR	CA-C	-21.21	1.23	1.52
5	4-Y	328	THR	CA-C	-21.21	1.23	1.52
5	5-Y	328	THR	CA-C	-21.21	1.23	1.52
5	6-Y	328	THR	CA-C	-21.21	1.23	1.52
5	7-Y	328	THR	CA-C	-21.21	1.23	1.52
5	8-Y	328	THR	CA-C	-21.21	1.23	1.52
5	1-M	328	THR	CA-C	-21.20	1.23	1.52
5	2-M	328	THR	CA-C	-21.20	1.23	1.52
5	3-M	328	THR	CA-C	-21.20	1.23	1.52
5	4-M	328	THR	CA-C	-21.20	1.23	1.52
5	5-M	328	THR	CA-C	-21.20	1.23	1.52
5	6-M	328	THR	CA-C	-21.20	1.23	1.52
5	7-M	328	THR	CA-C	-21.20	1.23	1.52
5	8-M	328	THR	CA-C	-21.20	1.23	1.52
3	1-J	1517	SER	CA-C	-21.04	1.24	1.52
3	2-J	1517	SER	CA-C	-21.04	1.24	1.52
3	3-J	1517	SER	CA-C	-21.04	1.24	1.52
3	4-J	1517	SER	CA-C	-21.04	1.24	1.52
3	5-J	1517	SER	CA-C	-21.04	1.24	1.52
3	6-J	1517	SER	CA-C	-21.04	1.24	1.52
3	7-J	1517	SER	CA-C	-21.04	1.24	1.52
3	8-J	1517	SER	CA-C	-21.04	1.24	1.52
3	1-D	1517	SER	CA-C	-21.03	1.24	1.52
3	2-D	1517	SER	CA-C	-21.03	1.24	1.52
3	3-D	1517	SER	CA-C	-21.03	1.24	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	1517	SER	CA-C	-21.03	1.24	1.52
3	5-D	1517	SER	CA-C	-21.03	1.24	1.52
3	6-D	1517	SER	CA-C	-21.03	1.24	1.52
3	7-D	1517	SER	CA-C	-21.03	1.24	1.52
3	8-D	1517	SER	CA-C	-21.03	1.24	1.52
3	1-V	1517	SER	CA-C	-21.01	1.24	1.52
3	2-V	1517	SER	CA-C	-21.01	1.24	1.52
3	3-V	1517	SER	CA-C	-21.01	1.24	1.52
3	4-V	1517	SER	CA-C	-21.01	1.24	1.52
3	5-V	1517	SER	CA-C	-21.01	1.24	1.52
3	6-V	1517	SER	CA-C	-21.01	1.24	1.52
3	7-V	1517	SER	CA-C	-21.01	1.24	1.52
3	8-V	1517	SER	CA-C	-21.01	1.24	1.52
3	1-P	1517	SER	CA-C	-20.98	1.24	1.52
3	2-P	1517	SER	CA-C	-20.98	1.24	1.52
3	3-P	1517	SER	CA-C	-20.98	1.24	1.52
3	4-P	1517	SER	CA-C	-20.98	1.24	1.52
3	5-P	1517	SER	CA-C	-20.98	1.24	1.52
3	6-P	1517	SER	CA-C	-20.98	1.24	1.52
3	7-P	1517	SER	CA-C	-20.98	1.24	1.52
3	8-P	1517	SER	CA-C	-20.98	1.24	1.52
5	1-S	331	THR	CA-C	-20.86	1.26	1.52
5	2-S	331	THR	CA-C	-20.86	1.26	1.52
5	3-S	331	THR	CA-C	-20.86	1.26	1.52
5	4-S	331	THR	CA-C	-20.86	1.26	1.52
5	5-S	331	THR	CA-C	-20.86	1.26	1.52
5	6-S	331	THR	CA-C	-20.86	1.26	1.52
5	7-S	331	THR	CA-C	-20.86	1.26	1.52
5	8-S	331	THR	CA-C	-20.86	1.26	1.52
5	1-M	331	THR	CA-C	-20.86	1.26	1.52
5	2-M	331	THR	CA-C	-20.86	1.26	1.52
5	3-M	331	THR	CA-C	-20.86	1.26	1.52
5	4-M	331	THR	CA-C	-20.86	1.26	1.52
5	5-M	331	THR	CA-C	-20.86	1.26	1.52
5	6-M	331	THR	CA-C	-20.86	1.26	1.52
5	7-M	331	THR	CA-C	-20.86	1.26	1.52
5	8-M	331	THR	CA-C	-20.86	1.26	1.52
5	1-Y	331	THR	CA-C	-20.80	1.26	1.52
5	2-Y	331	THR	CA-C	-20.80	1.26	1.52
5	3-Y	331	THR	CA-C	-20.80	1.26	1.52
5	4-Y	331	THR	CA-C	-20.80	1.26	1.52
5	5-Y	331	THR	CA-C	-20.80	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-Y	331	THR	CA-C	-20.80	1.26	1.52
5	7-Y	331	THR	CA-C	-20.80	1.26	1.52
5	8-Y	331	THR	CA-C	-20.80	1.26	1.52
5	1-G	331	THR	CA-C	-20.78	1.26	1.52
5	2-G	331	THR	CA-C	-20.78	1.26	1.52
5	3-G	331	THR	CA-C	-20.78	1.26	1.52
5	4-G	331	THR	CA-C	-20.78	1.26	1.52
5	5-G	331	THR	CA-C	-20.78	1.26	1.52
5	6-G	331	THR	CA-C	-20.78	1.26	1.52
5	7-G	331	THR	CA-C	-20.78	1.26	1.52
5	8-G	331	THR	CA-C	-20.78	1.26	1.52
6	1-H	413	LEU	N-CA	-20.59	1.21	1.46
6	2-H	413	LEU	N-CA	-20.59	1.21	1.46
6	3-H	413	LEU	N-CA	-20.59	1.21	1.46
6	4-H	413	LEU	N-CA	-20.59	1.21	1.46
6	5-H	413	LEU	N-CA	-20.59	1.21	1.46
6	6-H	413	LEU	N-CA	-20.59	1.21	1.46
6	7-H	413	LEU	N-CA	-20.59	1.21	1.46
6	8-H	413	LEU	N-CA	-20.59	1.21	1.46
6	1-N	413	LEU	N-CA	-20.57	1.21	1.46
6	2-N	413	LEU	N-CA	-20.57	1.21	1.46
6	3-N	413	LEU	N-CA	-20.57	1.21	1.46
6	4-N	413	LEU	N-CA	-20.57	1.21	1.46
6	5-N	413	LEU	N-CA	-20.57	1.21	1.46
6	6-N	413	LEU	N-CA	-20.57	1.21	1.46
6	7-N	413	LEU	N-CA	-20.57	1.21	1.46
6	8-N	413	LEU	N-CA	-20.57	1.21	1.46
6	1-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	2-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	3-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	4-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	5-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	6-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	7-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	8-Z	413	LEU	N-CA	-20.56	1.21	1.46
6	1-T	413	LEU	N-CA	-20.51	1.21	1.46
6	2-T	413	LEU	N-CA	-20.51	1.21	1.46
6	3-T	413	LEU	N-CA	-20.51	1.21	1.46
6	4-T	413	LEU	N-CA	-20.51	1.21	1.46
6	5-T	413	LEU	N-CA	-20.51	1.21	1.46
6	6-T	413	LEU	N-CA	-20.51	1.21	1.46
6	7-T	413	LEU	N-CA	-20.51	1.21	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-T	413	LEU	N-CA	-20.51	1.21	1.46
5	1-S	327	ARG	CA-CB	20.12	1.87	1.53
5	2-S	327	ARG	CA-CB	20.12	1.87	1.53
5	3-S	327	ARG	CA-CB	20.12	1.87	1.53
5	4-S	327	ARG	CA-CB	20.12	1.87	1.53
5	5-S	327	ARG	CA-CB	20.12	1.87	1.53
5	6-S	327	ARG	CA-CB	20.12	1.87	1.53
5	7-S	327	ARG	CA-CB	20.12	1.87	1.53
5	8-S	327	ARG	CA-CB	20.12	1.87	1.53
4	1-F	328	VAL	CA-C	20.11	1.75	1.52
4	2-F	328	VAL	CA-C	20.11	1.75	1.52
4	3-F	328	VAL	CA-C	20.11	1.75	1.52
4	4-F	328	VAL	CA-C	20.11	1.75	1.52
4	5-F	328	VAL	CA-C	20.11	1.75	1.52
4	6-F	328	VAL	CA-C	20.11	1.75	1.52
4	7-F	328	VAL	CA-C	20.11	1.75	1.52
4	8-F	328	VAL	CA-C	20.11	1.75	1.52
5	1-G	327	ARG	CA-CB	20.10	1.87	1.53
5	2-G	327	ARG	CA-CB	20.10	1.87	1.53
5	3-G	327	ARG	CA-CB	20.10	1.87	1.53
5	4-G	327	ARG	CA-CB	20.10	1.87	1.53
5	5-G	327	ARG	CA-CB	20.10	1.87	1.53
5	6-G	327	ARG	CA-CB	20.10	1.87	1.53
5	7-G	327	ARG	CA-CB	20.10	1.87	1.53
5	8-G	327	ARG	CA-CB	20.10	1.87	1.53
5	1-M	327	ARG	CA-CB	20.10	1.87	1.53
5	2-M	327	ARG	CA-CB	20.10	1.87	1.53
5	3-M	327	ARG	CA-CB	20.10	1.87	1.53
5	4-M	327	ARG	CA-CB	20.10	1.87	1.53
5	5-M	327	ARG	CA-CB	20.10	1.87	1.53
5	6-M	327	ARG	CA-CB	20.10	1.87	1.53
5	7-M	327	ARG	CA-CB	20.10	1.87	1.53
5	8-M	327	ARG	CA-CB	20.10	1.87	1.53
6	1-N	377	ARG	CA-C	-20.08	1.25	1.52
6	2-N	377	ARG	CA-C	-20.08	1.25	1.52
6	3-N	377	ARG	CA-C	-20.08	1.25	1.52
6	4-N	377	ARG	CA-C	-20.08	1.25	1.52
6	5-N	377	ARG	CA-C	-20.08	1.25	1.52
6	6-N	377	ARG	CA-C	-20.08	1.25	1.52
6	7-N	377	ARG	CA-C	-20.08	1.25	1.52
6	8-N	377	ARG	CA-C	-20.08	1.25	1.52
6	1-Z	377	ARG	CA-C	-20.07	1.25	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	3-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	4-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	5-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	6-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	7-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	8-Z	377	ARG	CA-C	-20.07	1.25	1.52
6	1-H	377	ARG	CA-C	-20.07	1.25	1.52
6	2-H	377	ARG	CA-C	-20.07	1.25	1.52
6	3-H	377	ARG	CA-C	-20.07	1.25	1.52
6	4-H	377	ARG	CA-C	-20.07	1.25	1.52
6	5-H	377	ARG	CA-C	-20.07	1.25	1.52
6	6-H	377	ARG	CA-C	-20.07	1.25	1.52
6	7-H	377	ARG	CA-C	-20.07	1.25	1.52
6	8-H	377	ARG	CA-C	-20.07	1.25	1.52
5	1-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	2-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	3-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	4-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	5-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	6-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	7-Y	327	ARG	CA-CB	20.06	1.87	1.53
5	8-Y	327	ARG	CA-CB	20.06	1.87	1.53
6	1-T	377	ARG	CA-C	-20.05	1.25	1.52
6	2-T	377	ARG	CA-C	-20.05	1.25	1.52
6	3-T	377	ARG	CA-C	-20.05	1.25	1.52
6	4-T	377	ARG	CA-C	-20.05	1.25	1.52
6	5-T	377	ARG	CA-C	-20.05	1.25	1.52
6	6-T	377	ARG	CA-C	-20.05	1.25	1.52
6	7-T	377	ARG	CA-C	-20.05	1.25	1.52
6	8-T	377	ARG	CA-C	-20.05	1.25	1.52
4	1-L	328	VAL	CA-C	20.04	1.75	1.52
4	2-L	328	VAL	CA-C	20.04	1.75	1.52
4	3-L	328	VAL	CA-C	20.04	1.75	1.52
4	4-L	328	VAL	CA-C	20.04	1.75	1.52
4	5-L	328	VAL	CA-C	20.04	1.75	1.52
4	6-L	328	VAL	CA-C	20.04	1.75	1.52
4	7-L	328	VAL	CA-C	20.04	1.75	1.52
4	8-L	328	VAL	CA-C	20.04	1.75	1.52
4	1-X	328	VAL	CA-C	20.00	1.75	1.52
4	2-X	328	VAL	CA-C	20.00	1.75	1.52
4	3-X	328	VAL	CA-C	20.00	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	328	VAL	CA-C	20.00	1.75	1.52
4	5-X	328	VAL	CA-C	20.00	1.75	1.52
4	6-X	328	VAL	CA-C	20.00	1.75	1.52
4	7-X	328	VAL	CA-C	20.00	1.75	1.52
4	8-X	328	VAL	CA-C	20.00	1.75	1.52
4	1-F	464	LYS	CA-C	-19.96	1.26	1.52
4	2-F	464	LYS	CA-C	-19.96	1.26	1.52
4	3-F	464	LYS	CA-C	-19.96	1.26	1.52
4	4-F	464	LYS	CA-C	-19.96	1.26	1.52
4	5-F	464	LYS	CA-C	-19.96	1.26	1.52
4	6-F	464	LYS	CA-C	-19.96	1.26	1.52
4	7-F	464	LYS	CA-C	-19.96	1.26	1.52
4	8-F	464	LYS	CA-C	-19.96	1.26	1.52
4	1-R	328	VAL	CA-C	19.95	1.75	1.52
4	2-R	328	VAL	CA-C	19.95	1.75	1.52
4	3-R	328	VAL	CA-C	19.95	1.75	1.52
4	4-R	328	VAL	CA-C	19.95	1.75	1.52
4	5-R	328	VAL	CA-C	19.95	1.75	1.52
4	6-R	328	VAL	CA-C	19.95	1.75	1.52
4	7-R	328	VAL	CA-C	19.95	1.75	1.52
4	8-R	328	VAL	CA-C	19.95	1.75	1.52
5	1-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	2-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	3-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	4-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	5-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	6-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	7-S	313	ILE	CA-CB	-19.95	1.31	1.54
5	8-S	313	ILE	CA-CB	-19.95	1.31	1.54
6	1-H	381	LYS	N-CA	19.94	1.71	1.46
6	2-H	381	LYS	N-CA	19.94	1.71	1.46
6	3-H	381	LYS	N-CA	19.94	1.71	1.46
6	4-H	381	LYS	N-CA	19.94	1.71	1.46
6	5-H	381	LYS	N-CA	19.94	1.71	1.46
6	6-H	381	LYS	N-CA	19.94	1.71	1.46
6	7-H	381	LYS	N-CA	19.94	1.71	1.46
6	8-H	381	LYS	N-CA	19.94	1.71	1.46
5	1-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	2-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	3-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	4-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	5-M	313	ILE	CA-CB	-19.94	1.31	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	7-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	8-M	313	ILE	CA-CB	-19.94	1.31	1.54
5	1-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	2-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	3-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	4-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	5-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	6-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	7-G	313	ILE	CA-CB	-19.93	1.31	1.54
5	8-G	313	ILE	CA-CB	-19.93	1.31	1.54
4	1-X	447	VAL	CA-CB	19.92	1.78	1.54
4	2-X	447	VAL	CA-CB	19.92	1.78	1.54
4	3-X	447	VAL	CA-CB	19.92	1.78	1.54
4	4-X	447	VAL	CA-CB	19.92	1.78	1.54
4	5-X	447	VAL	CA-CB	19.92	1.78	1.54
4	6-X	447	VAL	CA-CB	19.92	1.78	1.54
4	7-X	447	VAL	CA-CB	19.92	1.78	1.54
4	8-X	447	VAL	CA-CB	19.92	1.78	1.54
4	1-L	447	VAL	CA-CB	19.92	1.78	1.54
4	2-L	447	VAL	CA-CB	19.92	1.78	1.54
4	3-L	447	VAL	CA-CB	19.92	1.78	1.54
4	4-L	447	VAL	CA-CB	19.92	1.78	1.54
4	5-L	447	VAL	CA-CB	19.92	1.78	1.54
4	6-L	447	VAL	CA-CB	19.92	1.78	1.54
4	7-L	447	VAL	CA-CB	19.92	1.78	1.54
4	8-L	447	VAL	CA-CB	19.92	1.78	1.54
4	1-R	464	LYS	CA-C	-19.92	1.26	1.52
6	1-Z	381	LYS	N-CA	19.92	1.71	1.46
4	2-R	464	LYS	CA-C	-19.92	1.26	1.52
6	2-Z	381	LYS	N-CA	19.92	1.71	1.46
4	3-R	464	LYS	CA-C	-19.92	1.26	1.52
6	3-Z	381	LYS	N-CA	19.92	1.71	1.46
4	4-R	464	LYS	CA-C	-19.92	1.26	1.52
6	4-Z	381	LYS	N-CA	19.92	1.71	1.46
4	5-R	464	LYS	CA-C	-19.92	1.26	1.52
6	5-Z	381	LYS	N-CA	19.92	1.71	1.46
4	6-R	464	LYS	CA-C	-19.92	1.26	1.52
6	6-Z	381	LYS	N-CA	19.92	1.71	1.46
4	7-R	464	LYS	CA-C	-19.92	1.26	1.52
6	7-Z	381	LYS	N-CA	19.92	1.71	1.46
4	8-R	464	LYS	CA-C	-19.92	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	381	LYS	N-CA	19.92	1.71	1.46
4	1-X	464	LYS	CA-C	-19.91	1.26	1.52
4	2-X	464	LYS	CA-C	-19.91	1.26	1.52
4	3-X	464	LYS	CA-C	-19.91	1.26	1.52
4	4-X	464	LYS	CA-C	-19.91	1.26	1.52
4	5-X	464	LYS	CA-C	-19.91	1.26	1.52
4	6-X	464	LYS	CA-C	-19.91	1.26	1.52
4	7-X	464	LYS	CA-C	-19.91	1.26	1.52
4	8-X	464	LYS	CA-C	-19.91	1.26	1.52
6	1-T	381	LYS	N-CA	19.91	1.71	1.46
6	2-T	381	LYS	N-CA	19.91	1.71	1.46
6	3-T	381	LYS	N-CA	19.91	1.71	1.46
6	4-T	381	LYS	N-CA	19.91	1.71	1.46
6	5-T	381	LYS	N-CA	19.91	1.71	1.46
6	6-T	381	LYS	N-CA	19.91	1.71	1.46
6	7-T	381	LYS	N-CA	19.91	1.71	1.46
6	8-T	381	LYS	N-CA	19.91	1.71	1.46
5	1-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	2-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	3-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	4-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	5-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	6-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	7-Y	313	ILE	CA-CB	-19.90	1.31	1.54
5	8-Y	313	ILE	CA-CB	-19.90	1.31	1.54
4	1-R	447	VAL	CA-CB	19.90	1.78	1.54
4	2-R	447	VAL	CA-CB	19.90	1.78	1.54
4	3-R	447	VAL	CA-CB	19.90	1.78	1.54
4	4-R	447	VAL	CA-CB	19.90	1.78	1.54
4	5-R	447	VAL	CA-CB	19.90	1.78	1.54
4	6-R	447	VAL	CA-CB	19.90	1.78	1.54
4	7-R	447	VAL	CA-CB	19.90	1.78	1.54
4	8-R	447	VAL	CA-CB	19.90	1.78	1.54
4	1-F	447	VAL	CA-CB	19.89	1.78	1.54
4	2-F	447	VAL	CA-CB	19.89	1.78	1.54
4	3-F	447	VAL	CA-CB	19.89	1.78	1.54
4	4-F	447	VAL	CA-CB	19.89	1.78	1.54
4	5-F	447	VAL	CA-CB	19.89	1.78	1.54
4	6-F	447	VAL	CA-CB	19.89	1.78	1.54
4	7-F	447	VAL	CA-CB	19.89	1.78	1.54
4	8-F	447	VAL	CA-CB	19.89	1.78	1.54
4	1-L	464	LYS	CA-C	-19.89	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	464	LYS	CA-C	-19.89	1.26	1.52
4	3-L	464	LYS	CA-C	-19.89	1.26	1.52
4	4-L	464	LYS	CA-C	-19.89	1.26	1.52
4	5-L	464	LYS	CA-C	-19.89	1.26	1.52
4	6-L	464	LYS	CA-C	-19.89	1.26	1.52
4	7-L	464	LYS	CA-C	-19.89	1.26	1.52
4	8-L	464	LYS	CA-C	-19.89	1.26	1.52
4	1-F	450	GLU	N-CA	19.88	1.71	1.46
4	2-F	450	GLU	N-CA	19.88	1.71	1.46
4	3-F	450	GLU	N-CA	19.88	1.71	1.46
4	4-F	450	GLU	N-CA	19.88	1.71	1.46
4	5-F	450	GLU	N-CA	19.88	1.71	1.46
4	6-F	450	GLU	N-CA	19.88	1.71	1.46
4	7-F	450	GLU	N-CA	19.88	1.71	1.46
4	8-F	450	GLU	N-CA	19.88	1.71	1.46
4	1-L	450	GLU	N-CA	19.87	1.71	1.46
4	2-L	450	GLU	N-CA	19.87	1.71	1.46
4	3-L	450	GLU	N-CA	19.87	1.71	1.46
4	4-L	450	GLU	N-CA	19.87	1.71	1.46
4	5-L	450	GLU	N-CA	19.87	1.71	1.46
4	6-L	450	GLU	N-CA	19.87	1.71	1.46
4	7-L	450	GLU	N-CA	19.87	1.71	1.46
4	8-L	450	GLU	N-CA	19.87	1.71	1.46
4	1-F	458	ASP	CA-CB	19.87	1.87	1.53
4	2-F	458	ASP	CA-CB	19.87	1.87	1.53
4	3-F	458	ASP	CA-CB	19.87	1.87	1.53
4	4-F	458	ASP	CA-CB	19.87	1.87	1.53
4	5-F	458	ASP	CA-CB	19.87	1.87	1.53
4	6-F	458	ASP	CA-CB	19.87	1.87	1.53
4	7-F	458	ASP	CA-CB	19.87	1.87	1.53
4	8-F	458	ASP	CA-CB	19.87	1.87	1.53
6	1-N	381	LYS	N-CA	19.87	1.71	1.46
6	2-N	381	LYS	N-CA	19.87	1.71	1.46
6	3-N	381	LYS	N-CA	19.87	1.71	1.46
6	4-N	381	LYS	N-CA	19.87	1.71	1.46
6	5-N	381	LYS	N-CA	19.87	1.71	1.46
6	6-N	381	LYS	N-CA	19.87	1.71	1.46
6	7-N	381	LYS	N-CA	19.87	1.71	1.46
6	8-N	381	LYS	N-CA	19.87	1.71	1.46
4	1-R	458	ASP	CA-CB	19.87	1.87	1.53
4	2-R	458	ASP	CA-CB	19.87	1.87	1.53
4	3-R	458	ASP	CA-CB	19.87	1.87	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	458	ASP	CA-CB	19.87	1.87	1.53
4	5-R	458	ASP	CA-CB	19.87	1.87	1.53
4	6-R	458	ASP	CA-CB	19.87	1.87	1.53
4	7-R	458	ASP	CA-CB	19.87	1.87	1.53
4	8-R	458	ASP	CA-CB	19.87	1.87	1.53
4	1-L	458	ASP	CA-CB	19.85	1.87	1.53
4	2-L	458	ASP	CA-CB	19.85	1.87	1.53
4	3-L	458	ASP	CA-CB	19.85	1.87	1.53
4	4-L	458	ASP	CA-CB	19.85	1.87	1.53
4	5-L	458	ASP	CA-CB	19.85	1.87	1.53
4	6-L	458	ASP	CA-CB	19.85	1.87	1.53
4	7-L	458	ASP	CA-CB	19.85	1.87	1.53
4	8-L	458	ASP	CA-CB	19.85	1.87	1.53
4	1-X	450	GLU	N-CA	19.84	1.71	1.46
4	1-X	458	ASP	CA-CB	19.84	1.87	1.53
4	2-X	450	GLU	N-CA	19.84	1.71	1.46
4	2-X	458	ASP	CA-CB	19.84	1.87	1.53
4	3-X	450	GLU	N-CA	19.84	1.71	1.46
4	3-X	458	ASP	CA-CB	19.84	1.87	1.53
4	4-X	450	GLU	N-CA	19.84	1.71	1.46
4	4-X	458	ASP	CA-CB	19.84	1.87	1.53
4	5-X	450	GLU	N-CA	19.84	1.71	1.46
4	5-X	458	ASP	CA-CB	19.84	1.87	1.53
4	6-X	450	GLU	N-CA	19.84	1.71	1.46
4	6-X	458	ASP	CA-CB	19.84	1.87	1.53
4	7-X	450	GLU	N-CA	19.84	1.71	1.46
4	7-X	458	ASP	CA-CB	19.84	1.87	1.53
4	8-X	450	GLU	N-CA	19.84	1.71	1.46
4	8-X	458	ASP	CA-CB	19.84	1.87	1.53
4	1-R	450	GLU	N-CA	19.83	1.71	1.46
4	2-R	450	GLU	N-CA	19.83	1.71	1.46
4	3-R	450	GLU	N-CA	19.83	1.71	1.46
4	4-R	450	GLU	N-CA	19.83	1.71	1.46
4	5-R	450	GLU	N-CA	19.83	1.71	1.46
4	6-R	450	GLU	N-CA	19.83	1.71	1.46
4	7-R	450	GLU	N-CA	19.83	1.71	1.46
4	8-R	450	GLU	N-CA	19.83	1.71	1.46
6	1-N	387	LYS	CA-C	-19.78	1.27	1.52
6	2-N	387	LYS	CA-C	-19.78	1.27	1.52
6	3-N	387	LYS	CA-C	-19.78	1.27	1.52
6	4-N	387	LYS	CA-C	-19.78	1.27	1.52
6	5-N	387	LYS	CA-C	-19.78	1.27	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-N	387	LYS	CA-C	-19.78	1.27	1.52
6	7-N	387	LYS	CA-C	-19.78	1.27	1.52
6	8-N	387	LYS	CA-C	-19.78	1.27	1.52
6	1-T	387	LYS	CA-C	-19.75	1.27	1.52
6	2-T	387	LYS	CA-C	-19.75	1.27	1.52
6	3-T	387	LYS	CA-C	-19.75	1.27	1.52
6	4-T	387	LYS	CA-C	-19.75	1.27	1.52
6	5-T	387	LYS	CA-C	-19.75	1.27	1.52
6	6-T	387	LYS	CA-C	-19.75	1.27	1.52
6	7-T	387	LYS	CA-C	-19.75	1.27	1.52
6	8-T	387	LYS	CA-C	-19.75	1.27	1.52
6	1-H	387	LYS	CA-C	-19.74	1.27	1.52
6	2-H	387	LYS	CA-C	-19.74	1.27	1.52
6	3-H	387	LYS	CA-C	-19.74	1.27	1.52
6	4-H	387	LYS	CA-C	-19.74	1.27	1.52
6	5-H	387	LYS	CA-C	-19.74	1.27	1.52
6	6-H	387	LYS	CA-C	-19.74	1.27	1.52
6	7-H	387	LYS	CA-C	-19.74	1.27	1.52
6	8-H	387	LYS	CA-C	-19.74	1.27	1.52
6	1-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	2-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	3-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	4-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	5-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	6-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	7-Z	387	LYS	CA-C	-19.72	1.27	1.52
6	8-Z	387	LYS	CA-C	-19.72	1.27	1.52
5	1-M	326	LEU	CA-C	19.65	1.79	1.52
5	2-M	326	LEU	CA-C	19.65	1.79	1.52
5	3-M	326	LEU	CA-C	19.65	1.79	1.52
5	4-M	326	LEU	CA-C	19.65	1.79	1.52
5	5-M	326	LEU	CA-C	19.65	1.79	1.52
5	6-M	326	LEU	CA-C	19.65	1.79	1.52
5	7-M	326	LEU	CA-C	19.65	1.79	1.52
5	8-M	326	LEU	CA-C	19.65	1.79	1.52
5	1-S	326	LEU	CA-C	19.64	1.79	1.52
5	2-S	326	LEU	CA-C	19.64	1.79	1.52
5	3-S	326	LEU	CA-C	19.64	1.79	1.52
5	4-S	326	LEU	CA-C	19.64	1.79	1.52
5	5-S	326	LEU	CA-C	19.64	1.79	1.52
5	6-S	326	LEU	CA-C	19.64	1.79	1.52
5	7-S	326	LEU	CA-C	19.64	1.79	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	326	LEU	CA-C	19.64	1.79	1.52
5	1-G	326	LEU	CA-C	19.62	1.79	1.52
5	1-Y	326	LEU	CA-C	19.62	1.79	1.52
5	2-G	326	LEU	CA-C	19.62	1.79	1.52
5	2-Y	326	LEU	CA-C	19.62	1.79	1.52
5	3-G	326	LEU	CA-C	19.62	1.79	1.52
5	3-Y	326	LEU	CA-C	19.62	1.79	1.52
5	4-G	326	LEU	CA-C	19.62	1.79	1.52
5	4-Y	326	LEU	CA-C	19.62	1.79	1.52
5	5-G	326	LEU	CA-C	19.62	1.79	1.52
5	5-Y	326	LEU	CA-C	19.62	1.79	1.52
5	6-G	326	LEU	CA-C	19.62	1.79	1.52
5	6-Y	326	LEU	CA-C	19.62	1.79	1.52
5	7-G	326	LEU	CA-C	19.62	1.79	1.52
5	7-Y	326	LEU	CA-C	19.62	1.79	1.52
5	8-G	326	LEU	CA-C	19.62	1.79	1.52
5	8-Y	326	LEU	CA-C	19.62	1.79	1.52
4	1-L	456	ASP	CA-C	19.39	1.76	1.53
4	2-L	456	ASP	CA-C	19.39	1.76	1.53
4	3-L	456	ASP	CA-C	19.39	1.76	1.53
4	4-L	456	ASP	CA-C	19.39	1.76	1.53
4	5-L	456	ASP	CA-C	19.39	1.76	1.53
4	6-L	456	ASP	CA-C	19.39	1.76	1.53
4	7-L	456	ASP	CA-C	19.39	1.76	1.53
4	8-L	456	ASP	CA-C	19.39	1.76	1.53
4	1-X	456	ASP	CA-C	19.39	1.76	1.53
4	2-X	456	ASP	CA-C	19.39	1.76	1.53
4	3-X	456	ASP	CA-C	19.39	1.76	1.53
4	4-X	456	ASP	CA-C	19.39	1.76	1.53
4	5-X	456	ASP	CA-C	19.39	1.76	1.53
4	6-X	456	ASP	CA-C	19.39	1.76	1.53
4	7-X	456	ASP	CA-C	19.39	1.76	1.53
4	8-X	456	ASP	CA-C	19.39	1.76	1.53
5	1-Y	378	SER	C-N	19.36	1.60	1.33
5	2-Y	378	SER	C-N	19.36	1.60	1.33
5	3-Y	378	SER	C-N	19.36	1.60	1.33
5	4-Y	378	SER	C-N	19.36	1.60	1.33
5	5-Y	378	SER	C-N	19.36	1.60	1.33
5	6-Y	378	SER	C-N	19.36	1.60	1.33
5	7-Y	378	SER	C-N	19.36	1.60	1.33
5	8-Y	378	SER	C-N	19.36	1.60	1.33
4	1-R	456	ASP	CA-C	19.36	1.76	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	456	ASP	CA-C	19.36	1.76	1.53
4	3-R	456	ASP	CA-C	19.36	1.76	1.53
4	4-R	456	ASP	CA-C	19.36	1.76	1.53
4	5-R	456	ASP	CA-C	19.36	1.76	1.53
4	6-R	456	ASP	CA-C	19.36	1.76	1.53
4	7-R	456	ASP	CA-C	19.36	1.76	1.53
4	8-R	456	ASP	CA-C	19.36	1.76	1.53
5	1-M	378	SER	C-N	19.34	1.60	1.33
5	2-M	378	SER	C-N	19.34	1.60	1.33
5	3-M	378	SER	C-N	19.34	1.60	1.33
5	4-M	378	SER	C-N	19.34	1.60	1.33
5	5-M	378	SER	C-N	19.34	1.60	1.33
5	6-M	378	SER	C-N	19.34	1.60	1.33
5	7-M	378	SER	C-N	19.34	1.60	1.33
5	8-M	378	SER	C-N	19.34	1.60	1.33
4	1-F	456	ASP	CA-C	19.33	1.76	1.53
4	2-F	456	ASP	CA-C	19.33	1.76	1.53
4	3-F	456	ASP	CA-C	19.33	1.76	1.53
4	4-F	456	ASP	CA-C	19.33	1.76	1.53
4	5-F	456	ASP	CA-C	19.33	1.76	1.53
4	6-F	456	ASP	CA-C	19.33	1.76	1.53
4	7-F	456	ASP	CA-C	19.33	1.76	1.53
4	8-F	456	ASP	CA-C	19.33	1.76	1.53
5	1-S	378	SER	C-N	19.30	1.60	1.33
5	2-S	378	SER	C-N	19.30	1.60	1.33
5	3-S	378	SER	C-N	19.30	1.60	1.33
5	4-S	378	SER	C-N	19.30	1.60	1.33
5	5-S	378	SER	C-N	19.30	1.60	1.33
5	6-S	378	SER	C-N	19.30	1.60	1.33
5	7-S	378	SER	C-N	19.30	1.60	1.33
5	8-S	378	SER	C-N	19.30	1.60	1.33
5	1-G	378	SER	C-N	19.30	1.60	1.33
5	2-G	378	SER	C-N	19.30	1.60	1.33
5	3-G	378	SER	C-N	19.30	1.60	1.33
5	4-G	378	SER	C-N	19.30	1.60	1.33
5	5-G	378	SER	C-N	19.30	1.60	1.33
5	6-G	378	SER	C-N	19.30	1.60	1.33
5	7-G	378	SER	C-N	19.30	1.60	1.33
5	8-G	378	SER	C-N	19.30	1.60	1.33
6	1-T	463	ALA	N-CA	19.15	1.74	1.46
6	2-T	463	ALA	N-CA	19.15	1.74	1.46
6	3-T	463	ALA	N-CA	19.15	1.74	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	463	ALA	N-CA	19.15	1.74	1.46
6	5-T	463	ALA	N-CA	19.15	1.74	1.46
6	6-T	463	ALA	N-CA	19.15	1.74	1.46
6	7-T	463	ALA	N-CA	19.15	1.74	1.46
6	8-T	463	ALA	N-CA	19.15	1.74	1.46
6	1-H	463	ALA	N-CA	19.15	1.74	1.46
6	2-H	463	ALA	N-CA	19.15	1.74	1.46
6	3-H	463	ALA	N-CA	19.15	1.74	1.46
6	4-H	463	ALA	N-CA	19.15	1.74	1.46
6	5-H	463	ALA	N-CA	19.15	1.74	1.46
6	6-H	463	ALA	N-CA	19.15	1.74	1.46
6	7-H	463	ALA	N-CA	19.15	1.74	1.46
6	8-H	463	ALA	N-CA	19.15	1.74	1.46
6	1-Z	463	ALA	N-CA	19.14	1.74	1.46
6	2-Z	463	ALA	N-CA	19.14	1.74	1.46
6	3-Z	463	ALA	N-CA	19.14	1.74	1.46
6	4-Z	463	ALA	N-CA	19.14	1.74	1.46
6	5-Z	463	ALA	N-CA	19.14	1.74	1.46
6	6-Z	463	ALA	N-CA	19.14	1.74	1.46
6	7-Z	463	ALA	N-CA	19.14	1.74	1.46
6	8-Z	463	ALA	N-CA	19.14	1.74	1.46
6	1-N	463	ALA	N-CA	19.09	1.74	1.46
6	2-N	463	ALA	N-CA	19.09	1.74	1.46
6	3-N	463	ALA	N-CA	19.09	1.74	1.46
6	4-N	463	ALA	N-CA	19.09	1.74	1.46
6	5-N	463	ALA	N-CA	19.09	1.74	1.46
6	6-N	463	ALA	N-CA	19.09	1.74	1.46
6	7-N	463	ALA	N-CA	19.09	1.74	1.46
6	8-N	463	ALA	N-CA	19.09	1.74	1.46
5	1-Y	340	ALA	CA-C	18.94	1.72	1.53
5	2-Y	340	ALA	CA-C	18.94	1.72	1.53
5	3-Y	340	ALA	CA-C	18.94	1.72	1.53
5	4-Y	340	ALA	CA-C	18.94	1.72	1.53
5	5-Y	340	ALA	CA-C	18.94	1.72	1.53
5	6-Y	340	ALA	CA-C	18.94	1.72	1.53
5	7-Y	340	ALA	CA-C	18.94	1.72	1.53
5	8-Y	340	ALA	CA-C	18.94	1.72	1.53
5	1-M	340	ALA	CA-C	18.88	1.72	1.53
5	2-M	340	ALA	CA-C	18.88	1.72	1.53
5	3-M	340	ALA	CA-C	18.88	1.72	1.53
5	4-M	340	ALA	CA-C	18.88	1.72	1.53
5	5-M	340	ALA	CA-C	18.88	1.72	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	340	ALA	CA-C	18.88	1.72	1.53
5	7-M	340	ALA	CA-C	18.88	1.72	1.53
5	8-M	340	ALA	CA-C	18.88	1.72	1.53
5	1-S	340	ALA	CA-C	18.88	1.72	1.53
5	2-S	340	ALA	CA-C	18.88	1.72	1.53
5	3-S	340	ALA	CA-C	18.88	1.72	1.53
5	4-S	340	ALA	CA-C	18.88	1.72	1.53
5	5-S	340	ALA	CA-C	18.88	1.72	1.53
5	6-S	340	ALA	CA-C	18.88	1.72	1.53
5	7-S	340	ALA	CA-C	18.88	1.72	1.53
5	8-S	340	ALA	CA-C	18.88	1.72	1.53
5	1-G	340	ALA	CA-C	18.84	1.72	1.53
5	2-G	340	ALA	CA-C	18.84	1.72	1.53
5	3-G	340	ALA	CA-C	18.84	1.72	1.53
5	4-G	340	ALA	CA-C	18.84	1.72	1.53
5	5-G	340	ALA	CA-C	18.84	1.72	1.53
5	6-G	340	ALA	CA-C	18.84	1.72	1.53
5	7-G	340	ALA	CA-C	18.84	1.72	1.53
5	8-G	340	ALA	CA-C	18.84	1.72	1.53
4	1-F	483	ASP	CA-CB	18.74	1.85	1.53
4	2-F	483	ASP	CA-CB	18.74	1.85	1.53
4	3-F	483	ASP	CA-CB	18.74	1.85	1.53
4	4-F	483	ASP	CA-CB	18.74	1.85	1.53
4	5-F	483	ASP	CA-CB	18.74	1.85	1.53
4	6-F	483	ASP	CA-CB	18.74	1.85	1.53
4	7-F	483	ASP	CA-CB	18.74	1.85	1.53
4	8-F	483	ASP	CA-CB	18.74	1.85	1.53
4	1-L	483	ASP	CA-CB	18.73	1.85	1.53
4	1-X	483	ASP	CA-CB	18.73	1.85	1.53
4	2-L	483	ASP	CA-CB	18.73	1.85	1.53
4	2-X	483	ASP	CA-CB	18.73	1.85	1.53
4	3-L	483	ASP	CA-CB	18.73	1.85	1.53
4	3-X	483	ASP	CA-CB	18.73	1.85	1.53
4	4-L	483	ASP	CA-CB	18.73	1.85	1.53
4	4-X	483	ASP	CA-CB	18.73	1.85	1.53
4	5-L	483	ASP	CA-CB	18.73	1.85	1.53
4	5-X	483	ASP	CA-CB	18.73	1.85	1.53
4	6-L	483	ASP	CA-CB	18.73	1.85	1.53
4	6-X	483	ASP	CA-CB	18.73	1.85	1.53
4	7-L	483	ASP	CA-CB	18.73	1.85	1.53
4	7-X	483	ASP	CA-CB	18.73	1.85	1.53
4	8-L	483	ASP	CA-CB	18.73	1.85	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	483	ASP	CA-CB	18.73	1.85	1.53
4	1-R	483	ASP	CA-CB	18.72	1.85	1.53
4	2-R	483	ASP	CA-CB	18.72	1.85	1.53
4	3-R	483	ASP	CA-CB	18.72	1.85	1.53
4	4-R	483	ASP	CA-CB	18.72	1.85	1.53
4	5-R	483	ASP	CA-CB	18.72	1.85	1.53
4	6-R	483	ASP	CA-CB	18.72	1.85	1.53
4	7-R	483	ASP	CA-CB	18.72	1.85	1.53
4	8-R	483	ASP	CA-CB	18.72	1.85	1.53
2	1-I	12	GLN	CA-C	-18.57	1.28	1.52
2	2-I	12	GLN	CA-C	-18.57	1.28	1.52
2	3-I	12	GLN	CA-C	-18.57	1.28	1.52
2	4-I	12	GLN	CA-C	-18.57	1.28	1.52
2	5-I	12	GLN	CA-C	-18.57	1.28	1.52
2	6-I	12	GLN	CA-C	-18.57	1.28	1.52
2	7-I	12	GLN	CA-C	-18.57	1.28	1.52
2	8-I	12	GLN	CA-C	-18.57	1.28	1.52
2	1-C	12	GLN	CA-C	-18.57	1.28	1.52
2	2-C	12	GLN	CA-C	-18.57	1.28	1.52
2	3-C	12	GLN	CA-C	-18.57	1.28	1.52
2	4-C	12	GLN	CA-C	-18.57	1.28	1.52
2	5-C	12	GLN	CA-C	-18.57	1.28	1.52
2	6-C	12	GLN	CA-C	-18.57	1.28	1.52
2	7-C	12	GLN	CA-C	-18.57	1.28	1.52
2	8-C	12	GLN	CA-C	-18.57	1.28	1.52
4	1-X	311	GLN	CA-C	18.55	1.77	1.52
4	2-X	311	GLN	CA-C	18.55	1.77	1.52
4	3-X	311	GLN	CA-C	18.55	1.77	1.52
4	4-X	311	GLN	CA-C	18.55	1.77	1.52
4	5-X	311	GLN	CA-C	18.55	1.77	1.52
4	6-X	311	GLN	CA-C	18.55	1.77	1.52
4	7-X	311	GLN	CA-C	18.55	1.77	1.52
4	8-X	311	GLN	CA-C	18.55	1.77	1.52
2	1-U	12	GLN	CA-C	-18.54	1.28	1.52
2	2-U	12	GLN	CA-C	-18.54	1.28	1.52
2	3-U	12	GLN	CA-C	-18.54	1.28	1.52
2	4-U	12	GLN	CA-C	-18.54	1.28	1.52
2	5-U	12	GLN	CA-C	-18.54	1.28	1.52
2	6-U	12	GLN	CA-C	-18.54	1.28	1.52
2	7-U	12	GLN	CA-C	-18.54	1.28	1.52
2	8-U	12	GLN	CA-C	-18.54	1.28	1.52
4	1-F	311	GLN	CA-C	18.52	1.77	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	311	GLN	CA-C	18.52	1.77	1.52
4	3-F	311	GLN	CA-C	18.52	1.77	1.52
4	4-F	311	GLN	CA-C	18.52	1.77	1.52
4	5-F	311	GLN	CA-C	18.52	1.77	1.52
4	6-F	311	GLN	CA-C	18.52	1.77	1.52
4	7-F	311	GLN	CA-C	18.52	1.77	1.52
4	8-F	311	GLN	CA-C	18.52	1.77	1.52
4	1-L	311	GLN	CA-C	18.50	1.77	1.52
4	2-L	311	GLN	CA-C	18.50	1.77	1.52
4	3-L	311	GLN	CA-C	18.50	1.77	1.52
4	4-L	311	GLN	CA-C	18.50	1.77	1.52
4	5-L	311	GLN	CA-C	18.50	1.77	1.52
4	6-L	311	GLN	CA-C	18.50	1.77	1.52
4	7-L	311	GLN	CA-C	18.50	1.77	1.52
4	8-L	311	GLN	CA-C	18.50	1.77	1.52
2	1-O	12	GLN	CA-C	-18.50	1.28	1.52
2	2-O	12	GLN	CA-C	-18.50	1.28	1.52
2	3-O	12	GLN	CA-C	-18.50	1.28	1.52
2	4-O	12	GLN	CA-C	-18.50	1.28	1.52
2	5-O	12	GLN	CA-C	-18.50	1.28	1.52
2	6-O	12	GLN	CA-C	-18.50	1.28	1.52
2	7-O	12	GLN	CA-C	-18.50	1.28	1.52
2	8-O	12	GLN	CA-C	-18.50	1.28	1.52
4	1-R	311	GLN	CA-C	18.48	1.77	1.52
4	2-R	311	GLN	CA-C	18.48	1.77	1.52
4	3-R	311	GLN	CA-C	18.48	1.77	1.52
4	4-R	311	GLN	CA-C	18.48	1.77	1.52
4	5-R	311	GLN	CA-C	18.48	1.77	1.52
4	6-R	311	GLN	CA-C	18.48	1.77	1.52
4	7-R	311	GLN	CA-C	18.48	1.77	1.52
4	8-R	311	GLN	CA-C	18.48	1.77	1.52
5	1-S	325	ALA	CA-C	18.40	1.78	1.52
5	2-S	325	ALA	CA-C	18.40	1.78	1.52
5	3-S	325	ALA	CA-C	18.40	1.78	1.52
5	4-S	325	ALA	CA-C	18.40	1.78	1.52
5	5-S	325	ALA	CA-C	18.40	1.78	1.52
5	6-S	325	ALA	CA-C	18.40	1.78	1.52
5	7-S	325	ALA	CA-C	18.40	1.78	1.52
5	8-S	325	ALA	CA-C	18.40	1.78	1.52
5	1-G	325	ALA	CA-C	18.39	1.77	1.52
5	2-G	325	ALA	CA-C	18.39	1.77	1.52
5	3-G	325	ALA	CA-C	18.39	1.77	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-G	325	ALA	CA-C	18.39	1.77	1.52
5	5-G	325	ALA	CA-C	18.39	1.77	1.52
5	6-G	325	ALA	CA-C	18.39	1.77	1.52
5	7-G	325	ALA	CA-C	18.39	1.77	1.52
5	8-G	325	ALA	CA-C	18.39	1.77	1.52
5	1-Y	325	ALA	CA-C	18.37	1.77	1.52
5	2-Y	325	ALA	CA-C	18.37	1.77	1.52
5	3-Y	325	ALA	CA-C	18.37	1.77	1.52
5	4-Y	325	ALA	CA-C	18.37	1.77	1.52
5	5-Y	325	ALA	CA-C	18.37	1.77	1.52
5	6-Y	325	ALA	CA-C	18.37	1.77	1.52
5	7-Y	325	ALA	CA-C	18.37	1.77	1.52
5	8-Y	325	ALA	CA-C	18.37	1.77	1.52
5	1-M	325	ALA	CA-C	18.34	1.77	1.52
5	2-M	325	ALA	CA-C	18.34	1.77	1.52
5	3-M	325	ALA	CA-C	18.34	1.77	1.52
5	4-M	325	ALA	CA-C	18.34	1.77	1.52
5	5-M	325	ALA	CA-C	18.34	1.77	1.52
5	6-M	325	ALA	CA-C	18.34	1.77	1.52
5	7-M	325	ALA	CA-C	18.34	1.77	1.52
5	8-M	325	ALA	CA-C	18.34	1.77	1.52
4	1-X	328	VAL	C-N	18.32	1.57	1.33
4	2-X	328	VAL	C-N	18.32	1.57	1.33
4	3-X	328	VAL	C-N	18.32	1.57	1.33
4	4-X	328	VAL	C-N	18.32	1.57	1.33
4	5-X	328	VAL	C-N	18.32	1.57	1.33
4	6-X	328	VAL	C-N	18.32	1.57	1.33
4	7-X	328	VAL	C-N	18.32	1.57	1.33
4	8-X	328	VAL	C-N	18.32	1.57	1.33
4	1-R	328	VAL	C-N	18.30	1.57	1.33
4	2-R	328	VAL	C-N	18.30	1.57	1.33
4	3-R	328	VAL	C-N	18.30	1.57	1.33
4	4-R	328	VAL	C-N	18.30	1.57	1.33
4	5-R	328	VAL	C-N	18.30	1.57	1.33
4	6-R	328	VAL	C-N	18.30	1.57	1.33
4	7-R	328	VAL	C-N	18.30	1.57	1.33
4	8-R	328	VAL	C-N	18.30	1.57	1.33
4	1-L	328	VAL	C-N	18.29	1.57	1.33
4	2-L	328	VAL	C-N	18.29	1.57	1.33
4	3-L	328	VAL	C-N	18.29	1.57	1.33
4	4-L	328	VAL	C-N	18.29	1.57	1.33
4	5-L	328	VAL	C-N	18.29	1.57	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	328	VAL	C-N	18.29	1.57	1.33
4	7-L	328	VAL	C-N	18.29	1.57	1.33
4	8-L	328	VAL	C-N	18.29	1.57	1.33
6	1-N	497	ARG	N-CA	18.27	1.69	1.46
6	2-N	497	ARG	N-CA	18.27	1.69	1.46
6	3-N	497	ARG	N-CA	18.27	1.69	1.46
6	4-N	497	ARG	N-CA	18.27	1.69	1.46
6	5-N	497	ARG	N-CA	18.27	1.69	1.46
6	6-N	497	ARG	N-CA	18.27	1.69	1.46
6	7-N	497	ARG	N-CA	18.27	1.69	1.46
6	8-N	497	ARG	N-CA	18.27	1.69	1.46
6	1-H	497	ARG	N-CA	18.24	1.69	1.46
6	2-H	497	ARG	N-CA	18.24	1.69	1.46
6	3-H	497	ARG	N-CA	18.24	1.69	1.46
6	4-H	497	ARG	N-CA	18.24	1.69	1.46
6	5-H	497	ARG	N-CA	18.24	1.69	1.46
6	6-H	497	ARG	N-CA	18.24	1.69	1.46
6	7-H	497	ARG	N-CA	18.24	1.69	1.46
6	8-H	497	ARG	N-CA	18.24	1.69	1.46
6	1-T	497	ARG	N-CA	18.23	1.69	1.46
6	2-T	497	ARG	N-CA	18.23	1.69	1.46
6	3-T	497	ARG	N-CA	18.23	1.69	1.46
6	4-T	497	ARG	N-CA	18.23	1.69	1.46
6	5-T	497	ARG	N-CA	18.23	1.69	1.46
6	6-T	497	ARG	N-CA	18.23	1.69	1.46
6	7-T	497	ARG	N-CA	18.23	1.69	1.46
6	8-T	497	ARG	N-CA	18.23	1.69	1.46
6	1-Z	497	ARG	N-CA	18.23	1.69	1.46
6	2-Z	497	ARG	N-CA	18.23	1.69	1.46
6	3-Z	497	ARG	N-CA	18.23	1.69	1.46
6	4-Z	497	ARG	N-CA	18.23	1.69	1.46
6	5-Z	497	ARG	N-CA	18.23	1.69	1.46
6	6-Z	497	ARG	N-CA	18.23	1.69	1.46
6	7-Z	497	ARG	N-CA	18.23	1.69	1.46
6	8-Z	497	ARG	N-CA	18.23	1.69	1.46
4	1-F	328	VAL	C-N	18.21	1.57	1.33
4	2-F	328	VAL	C-N	18.21	1.57	1.33
4	3-F	328	VAL	C-N	18.21	1.57	1.33
4	4-F	328	VAL	C-N	18.21	1.57	1.33
4	5-F	328	VAL	C-N	18.21	1.57	1.33
4	6-F	328	VAL	C-N	18.21	1.57	1.33
4	7-F	328	VAL	C-N	18.21	1.57	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	328	VAL	C-N	18.21	1.57	1.33
4	1-R	488	ILE	N-CA	18.15	1.67	1.46
4	2-R	488	ILE	N-CA	18.15	1.67	1.46
4	3-R	488	ILE	N-CA	18.15	1.67	1.46
4	4-R	488	ILE	N-CA	18.15	1.67	1.46
4	5-R	488	ILE	N-CA	18.15	1.67	1.46
4	6-R	488	ILE	N-CA	18.15	1.67	1.46
4	7-R	488	ILE	N-CA	18.15	1.67	1.46
4	8-R	488	ILE	N-CA	18.15	1.67	1.46
4	1-F	488	ILE	N-CA	18.12	1.67	1.46
4	2-F	488	ILE	N-CA	18.12	1.67	1.46
4	3-F	488	ILE	N-CA	18.12	1.67	1.46
4	4-F	488	ILE	N-CA	18.12	1.67	1.46
4	5-F	488	ILE	N-CA	18.12	1.67	1.46
4	6-F	488	ILE	N-CA	18.12	1.67	1.46
4	7-F	488	ILE	N-CA	18.12	1.67	1.46
4	8-F	488	ILE	N-CA	18.12	1.67	1.46
4	1-X	488	ILE	N-CA	18.08	1.67	1.46
4	2-X	488	ILE	N-CA	18.08	1.67	1.46
4	3-X	488	ILE	N-CA	18.08	1.67	1.46
4	4-X	488	ILE	N-CA	18.08	1.67	1.46
4	5-X	488	ILE	N-CA	18.08	1.67	1.46
4	6-X	488	ILE	N-CA	18.08	1.67	1.46
4	7-X	488	ILE	N-CA	18.08	1.67	1.46
4	8-X	488	ILE	N-CA	18.08	1.67	1.46
2	1-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	2-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	3-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	4-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	5-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	6-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	7-I	6	PHE	CA-CB	-18.07	1.21	1.53
2	8-I	6	PHE	CA-CB	-18.07	1.21	1.53
4	1-L	488	ILE	N-CA	18.07	1.67	1.46
4	2-L	488	ILE	N-CA	18.07	1.67	1.46
4	3-L	488	ILE	N-CA	18.07	1.67	1.46
4	4-L	488	ILE	N-CA	18.07	1.67	1.46
4	5-L	488	ILE	N-CA	18.07	1.67	1.46
4	6-L	488	ILE	N-CA	18.07	1.67	1.46
4	7-L	488	ILE	N-CA	18.07	1.67	1.46
4	8-L	488	ILE	N-CA	18.07	1.67	1.46
2	1-O	6	PHE	CA-CB	-18.04	1.21	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	3-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	4-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	5-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	6-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	7-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	8-O	6	PHE	CA-CB	-18.04	1.21	1.53
2	1-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	2-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	3-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	4-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	5-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	6-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	7-C	6	PHE	CA-CB	-18.04	1.21	1.53
2	8-C	6	PHE	CA-CB	-18.04	1.21	1.53
4	1-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	2-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	3-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	4-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	5-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	6-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	7-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	8-X	472	GLU	CA-CB	-18.01	1.24	1.53
4	1-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	2-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	3-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	4-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	5-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	6-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	7-R	472	GLU	CA-CB	-17.99	1.24	1.53
4	8-R	472	GLU	CA-CB	-17.99	1.24	1.53
2	1-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	2-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	3-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	4-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	5-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	6-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	7-U	6	PHE	CA-CB	-17.98	1.21	1.53
2	8-U	6	PHE	CA-CB	-17.98	1.21	1.53
4	1-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	2-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	3-L	472	GLU	CA-CB	-17.98	1.24	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	5-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	6-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	7-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	8-L	472	GLU	CA-CB	-17.98	1.24	1.53
4	1-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	2-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	3-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	4-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	5-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	6-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	7-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	8-F	472	GLU	CA-CB	-17.96	1.24	1.53
4	1-X	471	GLN	CA-C	-17.80	1.29	1.52
4	2-X	471	GLN	CA-C	-17.80	1.29	1.52
4	3-X	471	GLN	CA-C	-17.80	1.29	1.52
4	4-X	471	GLN	CA-C	-17.80	1.29	1.52
4	5-X	471	GLN	CA-C	-17.80	1.29	1.52
4	6-X	471	GLN	CA-C	-17.80	1.29	1.52
4	7-X	471	GLN	CA-C	-17.80	1.29	1.52
4	8-X	471	GLN	CA-C	-17.80	1.29	1.52
4	1-L	471	GLN	CA-C	-17.79	1.29	1.52
4	2-L	471	GLN	CA-C	-17.79	1.29	1.52
4	3-L	471	GLN	CA-C	-17.79	1.29	1.52
4	4-L	471	GLN	CA-C	-17.79	1.29	1.52
4	5-L	471	GLN	CA-C	-17.79	1.29	1.52
4	6-L	471	GLN	CA-C	-17.79	1.29	1.52
4	7-L	471	GLN	CA-C	-17.79	1.29	1.52
4	8-L	471	GLN	CA-C	-17.79	1.29	1.52
4	1-R	471	GLN	CA-C	-17.79	1.29	1.52
4	2-R	471	GLN	CA-C	-17.79	1.29	1.52
4	3-R	471	GLN	CA-C	-17.79	1.29	1.52
4	4-R	471	GLN	CA-C	-17.79	1.29	1.52
4	5-R	471	GLN	CA-C	-17.79	1.29	1.52
4	6-R	471	GLN	CA-C	-17.79	1.29	1.52
4	7-R	471	GLN	CA-C	-17.79	1.29	1.52
4	8-R	471	GLN	CA-C	-17.79	1.29	1.52
4	1-F	471	GLN	CA-C	-17.78	1.29	1.52
4	2-F	471	GLN	CA-C	-17.78	1.29	1.52
4	3-F	471	GLN	CA-C	-17.78	1.29	1.52
4	4-F	471	GLN	CA-C	-17.78	1.29	1.52
4	5-F	471	GLN	CA-C	-17.78	1.29	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	471	GLN	CA-C	-17.78	1.29	1.52
4	7-F	471	GLN	CA-C	-17.78	1.29	1.52
4	8-F	471	GLN	CA-C	-17.78	1.29	1.52
5	1-M	320	LYS	N-CA	-17.70	1.23	1.46
5	2-M	320	LYS	N-CA	-17.70	1.23	1.46
5	3-M	320	LYS	N-CA	-17.70	1.23	1.46
5	4-M	320	LYS	N-CA	-17.70	1.23	1.46
5	5-M	320	LYS	N-CA	-17.70	1.23	1.46
5	6-M	320	LYS	N-CA	-17.70	1.23	1.46
5	7-M	320	LYS	N-CA	-17.70	1.23	1.46
5	8-M	320	LYS	N-CA	-17.70	1.23	1.46
4	1-F	427	PHE	CA-C	-17.51	1.30	1.52
4	2-F	427	PHE	CA-C	-17.51	1.30	1.52
4	3-F	427	PHE	CA-C	-17.51	1.30	1.52
4	4-F	427	PHE	CA-C	-17.51	1.30	1.52
4	5-F	427	PHE	CA-C	-17.51	1.30	1.52
4	6-F	427	PHE	CA-C	-17.51	1.30	1.52
4	7-F	427	PHE	CA-C	-17.51	1.30	1.52
4	8-F	427	PHE	CA-C	-17.51	1.30	1.52
4	1-L	457	ALA	CA-CB	17.50	1.83	1.53
4	2-L	457	ALA	CA-CB	17.50	1.83	1.53
4	3-L	457	ALA	CA-CB	17.50	1.83	1.53
4	4-L	457	ALA	CA-CB	17.50	1.83	1.53
4	5-L	457	ALA	CA-CB	17.50	1.83	1.53
4	6-L	457	ALA	CA-CB	17.50	1.83	1.53
4	7-L	457	ALA	CA-CB	17.50	1.83	1.53
4	8-L	457	ALA	CA-CB	17.50	1.83	1.53
4	1-X	427	PHE	CA-C	-17.49	1.30	1.52
4	2-X	427	PHE	CA-C	-17.49	1.30	1.52
4	3-X	427	PHE	CA-C	-17.49	1.30	1.52
4	4-X	427	PHE	CA-C	-17.49	1.30	1.52
4	5-X	427	PHE	CA-C	-17.49	1.30	1.52
4	6-X	427	PHE	CA-C	-17.49	1.30	1.52
4	7-X	427	PHE	CA-C	-17.49	1.30	1.52
4	8-X	427	PHE	CA-C	-17.49	1.30	1.52
4	1-F	457	ALA	CA-CB	17.48	1.83	1.53
4	1-R	427	PHE	CA-C	-17.48	1.30	1.52
4	2-F	457	ALA	CA-CB	17.48	1.83	1.53
4	2-R	427	PHE	CA-C	-17.48	1.30	1.52
4	3-F	457	ALA	CA-CB	17.48	1.83	1.53
4	3-R	427	PHE	CA-C	-17.48	1.30	1.52
4	4-F	457	ALA	CA-CB	17.48	1.83	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	427	PHE	CA-C	-17.48	1.30	1.52
4	5-F	457	ALA	CA-CB	17.48	1.83	1.53
4	5-R	427	PHE	CA-C	-17.48	1.30	1.52
4	6-F	457	ALA	CA-CB	17.48	1.83	1.53
4	6-R	427	PHE	CA-C	-17.48	1.30	1.52
4	7-F	457	ALA	CA-CB	17.48	1.83	1.53
4	7-R	427	PHE	CA-C	-17.48	1.30	1.52
4	8-F	457	ALA	CA-CB	17.48	1.83	1.53
4	8-R	427	PHE	CA-C	-17.48	1.30	1.52
4	1-X	457	ALA	CA-CB	17.48	1.83	1.53
4	2-X	457	ALA	CA-CB	17.48	1.83	1.53
4	3-X	457	ALA	CA-CB	17.48	1.83	1.53
4	4-X	457	ALA	CA-CB	17.48	1.83	1.53
4	5-X	457	ALA	CA-CB	17.48	1.83	1.53
4	6-X	457	ALA	CA-CB	17.48	1.83	1.53
4	7-X	457	ALA	CA-CB	17.48	1.83	1.53
4	8-X	457	ALA	CA-CB	17.48	1.83	1.53
4	1-L	427	PHE	CA-C	-17.46	1.30	1.52
4	2-L	427	PHE	CA-C	-17.46	1.30	1.52
4	3-L	427	PHE	CA-C	-17.46	1.30	1.52
4	4-L	427	PHE	CA-C	-17.46	1.30	1.52
4	5-L	427	PHE	CA-C	-17.46	1.30	1.52
4	6-L	427	PHE	CA-C	-17.46	1.30	1.52
4	7-L	427	PHE	CA-C	-17.46	1.30	1.52
4	8-L	427	PHE	CA-C	-17.46	1.30	1.52
4	1-R	457	ALA	CA-CB	17.45	1.82	1.53
4	2-R	457	ALA	CA-CB	17.45	1.82	1.53
4	3-R	457	ALA	CA-CB	17.45	1.82	1.53
4	4-R	457	ALA	CA-CB	17.45	1.82	1.53
4	5-R	457	ALA	CA-CB	17.45	1.82	1.53
4	6-R	457	ALA	CA-CB	17.45	1.82	1.53
4	7-R	457	ALA	CA-CB	17.45	1.82	1.53
4	8-R	457	ALA	CA-CB	17.45	1.82	1.53
5	1-G	320	LYS	N-CA	-17.45	1.23	1.46
5	2-G	320	LYS	N-CA	-17.45	1.23	1.46
5	3-G	320	LYS	N-CA	-17.45	1.23	1.46
5	4-G	320	LYS	N-CA	-17.45	1.23	1.46
5	5-G	320	LYS	N-CA	-17.45	1.23	1.46
5	6-G	320	LYS	N-CA	-17.45	1.23	1.46
5	7-G	320	LYS	N-CA	-17.45	1.23	1.46
5	8-G	320	LYS	N-CA	-17.45	1.23	1.46
5	1-S	320	LYS	N-CA	-17.44	1.23	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-S	320	LYS	N-CA	-17.44	1.23	1.46
5	3-S	320	LYS	N-CA	-17.44	1.23	1.46
5	4-S	320	LYS	N-CA	-17.44	1.23	1.46
5	5-S	320	LYS	N-CA	-17.44	1.23	1.46
5	6-S	320	LYS	N-CA	-17.44	1.23	1.46
5	7-S	320	LYS	N-CA	-17.44	1.23	1.46
5	8-S	320	LYS	N-CA	-17.44	1.23	1.46
5	1-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	2-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	3-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	4-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	5-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	6-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	7-Y	320	LYS	N-CA	-17.43	1.23	1.46
5	8-Y	320	LYS	N-CA	-17.43	1.23	1.46
4	1-L	329	GLY	N-CA	17.25	1.71	1.45
4	2-L	329	GLY	N-CA	17.25	1.71	1.45
4	3-L	329	GLY	N-CA	17.25	1.71	1.45
4	4-L	329	GLY	N-CA	17.25	1.71	1.45
4	5-L	329	GLY	N-CA	17.25	1.71	1.45
4	6-L	329	GLY	N-CA	17.25	1.71	1.45
4	7-L	329	GLY	N-CA	17.25	1.71	1.45
4	8-L	329	GLY	N-CA	17.25	1.71	1.45
4	1-F	329	GLY	N-CA	17.23	1.71	1.45
4	2-F	329	GLY	N-CA	17.23	1.71	1.45
4	3-F	329	GLY	N-CA	17.23	1.71	1.45
4	4-F	329	GLY	N-CA	17.23	1.71	1.45
4	5-F	329	GLY	N-CA	17.23	1.71	1.45
4	6-F	329	GLY	N-CA	17.23	1.71	1.45
4	7-F	329	GLY	N-CA	17.23	1.71	1.45
4	8-F	329	GLY	N-CA	17.23	1.71	1.45
4	1-X	329	GLY	N-CA	17.23	1.71	1.45
4	2-X	329	GLY	N-CA	17.23	1.71	1.45
4	3-X	329	GLY	N-CA	17.23	1.71	1.45
4	4-X	329	GLY	N-CA	17.23	1.71	1.45
4	5-X	329	GLY	N-CA	17.23	1.71	1.45
4	6-X	329	GLY	N-CA	17.23	1.71	1.45
4	7-X	329	GLY	N-CA	17.23	1.71	1.45
4	8-X	329	GLY	N-CA	17.23	1.71	1.45
4	1-R	329	GLY	N-CA	17.23	1.71	1.45
4	2-R	329	GLY	N-CA	17.23	1.71	1.45
4	3-R	329	GLY	N-CA	17.23	1.71	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	329	GLY	N-CA	17.23	1.71	1.45
4	5-R	329	GLY	N-CA	17.23	1.71	1.45
4	6-R	329	GLY	N-CA	17.23	1.71	1.45
4	7-R	329	GLY	N-CA	17.23	1.71	1.45
4	8-R	329	GLY	N-CA	17.23	1.71	1.45
4	1-F	468	LYS	CA-C	-17.20	1.29	1.52
4	2-F	468	LYS	CA-C	-17.20	1.29	1.52
4	3-F	468	LYS	CA-C	-17.20	1.29	1.52
4	4-F	468	LYS	CA-C	-17.20	1.29	1.52
4	5-F	468	LYS	CA-C	-17.20	1.29	1.52
4	6-F	468	LYS	CA-C	-17.20	1.29	1.52
4	7-F	468	LYS	CA-C	-17.20	1.29	1.52
4	8-F	468	LYS	CA-C	-17.20	1.29	1.52
6	1-N	374	SER	N-CA	-17.19	1.23	1.46
6	2-N	374	SER	N-CA	-17.19	1.23	1.46
6	3-N	374	SER	N-CA	-17.19	1.23	1.46
6	4-N	374	SER	N-CA	-17.19	1.23	1.46
6	5-N	374	SER	N-CA	-17.19	1.23	1.46
6	6-N	374	SER	N-CA	-17.19	1.23	1.46
6	7-N	374	SER	N-CA	-17.19	1.23	1.46
6	8-N	374	SER	N-CA	-17.19	1.23	1.46
4	1-L	468	LYS	CA-C	-17.17	1.29	1.52
6	1-T	374	SER	N-CA	-17.17	1.23	1.46
4	2-L	468	LYS	CA-C	-17.17	1.29	1.52
6	2-T	374	SER	N-CA	-17.17	1.23	1.46
4	3-L	468	LYS	CA-C	-17.17	1.29	1.52
6	3-T	374	SER	N-CA	-17.17	1.23	1.46
4	4-L	468	LYS	CA-C	-17.17	1.29	1.52
6	4-T	374	SER	N-CA	-17.17	1.23	1.46
4	5-L	468	LYS	CA-C	-17.17	1.29	1.52
6	5-T	374	SER	N-CA	-17.17	1.23	1.46
4	6-L	468	LYS	CA-C	-17.17	1.29	1.52
6	6-T	374	SER	N-CA	-17.17	1.23	1.46
4	7-L	468	LYS	CA-C	-17.17	1.29	1.52
6	7-T	374	SER	N-CA	-17.17	1.23	1.46
4	8-L	468	LYS	CA-C	-17.17	1.29	1.52
6	8-T	374	SER	N-CA	-17.17	1.23	1.46
4	1-X	468	LYS	CA-C	-17.17	1.29	1.52
4	2-X	468	LYS	CA-C	-17.17	1.29	1.52
4	3-X	468	LYS	CA-C	-17.17	1.29	1.52
4	4-X	468	LYS	CA-C	-17.17	1.29	1.52
4	5-X	468	LYS	CA-C	-17.17	1.29	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-X	468	LYS	CA-C	-17.17	1.29	1.52
4	7-X	468	LYS	CA-C	-17.17	1.29	1.52
4	8-X	468	LYS	CA-C	-17.17	1.29	1.52
6	1-Z	374	SER	N-CA	-17.16	1.23	1.46
6	2-Z	374	SER	N-CA	-17.16	1.23	1.46
6	3-Z	374	SER	N-CA	-17.16	1.23	1.46
6	4-Z	374	SER	N-CA	-17.16	1.23	1.46
6	5-Z	374	SER	N-CA	-17.16	1.23	1.46
6	6-Z	374	SER	N-CA	-17.16	1.23	1.46
6	7-Z	374	SER	N-CA	-17.16	1.23	1.46
6	8-Z	374	SER	N-CA	-17.16	1.23	1.46
6	1-H	374	SER	N-CA	-17.16	1.23	1.46
6	2-H	374	SER	N-CA	-17.16	1.23	1.46
6	3-H	374	SER	N-CA	-17.16	1.23	1.46
6	4-H	374	SER	N-CA	-17.16	1.23	1.46
6	5-H	374	SER	N-CA	-17.16	1.23	1.46
6	6-H	374	SER	N-CA	-17.16	1.23	1.46
6	7-H	374	SER	N-CA	-17.16	1.23	1.46
6	8-H	374	SER	N-CA	-17.16	1.23	1.46
4	1-R	468	LYS	CA-C	-17.14	1.29	1.52
4	2-R	468	LYS	CA-C	-17.14	1.29	1.52
4	3-R	468	LYS	CA-C	-17.14	1.29	1.52
4	4-R	468	LYS	CA-C	-17.14	1.29	1.52
4	5-R	468	LYS	CA-C	-17.14	1.29	1.52
4	6-R	468	LYS	CA-C	-17.14	1.29	1.52
4	7-R	468	LYS	CA-C	-17.14	1.29	1.52
4	8-R	468	LYS	CA-C	-17.14	1.29	1.52
5	1-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	2-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	3-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	4-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	5-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	6-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	7-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	8-Y	329	GLN	CA-C	-17.06	1.30	1.53
5	1-M	329	GLN	CA-C	-17.06	1.30	1.53
5	2-M	329	GLN	CA-C	-17.06	1.30	1.53
5	3-M	329	GLN	CA-C	-17.06	1.30	1.53
5	4-M	329	GLN	CA-C	-17.06	1.30	1.53
5	5-M	329	GLN	CA-C	-17.06	1.30	1.53
5	6-M	329	GLN	CA-C	-17.06	1.30	1.53
5	7-M	329	GLN	CA-C	-17.06	1.30	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-M	329	GLN	CA-C	-17.06	1.30	1.53
5	1-S	329	GLN	CA-C	-17.05	1.30	1.53
5	2-S	329	GLN	CA-C	-17.05	1.30	1.53
5	3-S	329	GLN	CA-C	-17.05	1.30	1.53
5	4-S	329	GLN	CA-C	-17.05	1.30	1.53
5	5-S	329	GLN	CA-C	-17.05	1.30	1.53
5	6-S	329	GLN	CA-C	-17.05	1.30	1.53
5	7-S	329	GLN	CA-C	-17.05	1.30	1.53
5	8-S	329	GLN	CA-C	-17.05	1.30	1.53
5	1-G	329	GLN	CA-C	-17.03	1.30	1.53
5	2-G	329	GLN	CA-C	-17.03	1.30	1.53
5	3-G	329	GLN	CA-C	-17.03	1.30	1.53
5	4-G	329	GLN	CA-C	-17.03	1.30	1.53
5	5-G	329	GLN	CA-C	-17.03	1.30	1.53
5	6-G	329	GLN	CA-C	-17.03	1.30	1.53
5	7-G	329	GLN	CA-C	-17.03	1.30	1.53
5	8-G	329	GLN	CA-C	-17.03	1.30	1.53
6	1-T	373	THR	CA-CB	-16.96	1.26	1.53
6	2-T	373	THR	CA-CB	-16.96	1.26	1.53
6	3-T	373	THR	CA-CB	-16.96	1.26	1.53
6	4-T	373	THR	CA-CB	-16.96	1.26	1.53
6	5-T	373	THR	CA-CB	-16.96	1.26	1.53
6	6-T	373	THR	CA-CB	-16.96	1.26	1.53
6	7-T	373	THR	CA-CB	-16.96	1.26	1.53
6	8-T	373	THR	CA-CB	-16.96	1.26	1.53
6	1-H	373	THR	CA-CB	-16.95	1.26	1.53
6	2-H	373	THR	CA-CB	-16.95	1.26	1.53
6	3-H	373	THR	CA-CB	-16.95	1.26	1.53
6	4-H	373	THR	CA-CB	-16.95	1.26	1.53
6	5-H	373	THR	CA-CB	-16.95	1.26	1.53
6	6-H	373	THR	CA-CB	-16.95	1.26	1.53
6	7-H	373	THR	CA-CB	-16.95	1.26	1.53
6	8-H	373	THR	CA-CB	-16.95	1.26	1.53
6	1-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	2-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	3-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	4-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	5-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	6-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	7-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	8-Z	373	THR	CA-CB	-16.93	1.26	1.53
6	1-N	373	THR	CA-CB	-16.91	1.26	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-N	373	THR	CA-CB	-16.91	1.26	1.53
6	3-N	373	THR	CA-CB	-16.91	1.26	1.53
6	4-N	373	THR	CA-CB	-16.91	1.26	1.53
6	5-N	373	THR	CA-CB	-16.91	1.26	1.53
6	6-N	373	THR	CA-CB	-16.91	1.26	1.53
6	7-N	373	THR	CA-CB	-16.91	1.26	1.53
6	8-N	373	THR	CA-CB	-16.91	1.26	1.53
6	1-H	487	TRP	N-CA	-16.91	1.25	1.46
6	2-H	487	TRP	N-CA	-16.91	1.25	1.46
6	3-H	487	TRP	N-CA	-16.91	1.25	1.46
6	4-H	487	TRP	N-CA	-16.91	1.25	1.46
6	5-H	487	TRP	N-CA	-16.91	1.25	1.46
6	6-H	487	TRP	N-CA	-16.91	1.25	1.46
6	7-H	487	TRP	N-CA	-16.91	1.25	1.46
6	8-H	487	TRP	N-CA	-16.91	1.25	1.46
6	1-N	487	TRP	N-CA	-16.89	1.25	1.46
6	2-N	487	TRP	N-CA	-16.89	1.25	1.46
6	3-N	487	TRP	N-CA	-16.89	1.25	1.46
6	4-N	487	TRP	N-CA	-16.89	1.25	1.46
6	5-N	487	TRP	N-CA	-16.89	1.25	1.46
6	6-N	487	TRP	N-CA	-16.89	1.25	1.46
6	7-N	487	TRP	N-CA	-16.89	1.25	1.46
6	8-N	487	TRP	N-CA	-16.89	1.25	1.46
6	1-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	2-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	3-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	4-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	5-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	6-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	7-Z	487	TRP	N-CA	-16.88	1.25	1.46
6	8-Z	487	TRP	N-CA	-16.88	1.25	1.46
4	1-X	463	ILE	CA-C	16.87	1.74	1.52
4	2-X	463	ILE	CA-C	16.87	1.74	1.52
4	3-X	463	ILE	CA-C	16.87	1.74	1.52
4	4-X	463	ILE	CA-C	16.87	1.74	1.52
4	5-X	463	ILE	CA-C	16.87	1.74	1.52
4	6-X	463	ILE	CA-C	16.87	1.74	1.52
4	7-X	463	ILE	CA-C	16.87	1.74	1.52
4	8-X	463	ILE	CA-C	16.87	1.74	1.52
4	1-L	463	ILE	CA-C	16.87	1.74	1.52
4	2-L	463	ILE	CA-C	16.87	1.74	1.52
4	3-L	463	ILE	CA-C	16.87	1.74	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	463	ILE	CA-C	16.87	1.74	1.52
4	5-L	463	ILE	CA-C	16.87	1.74	1.52
4	6-L	463	ILE	CA-C	16.87	1.74	1.52
4	7-L	463	ILE	CA-C	16.87	1.74	1.52
4	8-L	463	ILE	CA-C	16.87	1.74	1.52
6	1-T	487	TRP	N-CA	-16.86	1.25	1.46
6	2-T	487	TRP	N-CA	-16.86	1.25	1.46
6	3-T	487	TRP	N-CA	-16.86	1.25	1.46
6	4-T	487	TRP	N-CA	-16.86	1.25	1.46
6	5-T	487	TRP	N-CA	-16.86	1.25	1.46
6	6-T	487	TRP	N-CA	-16.86	1.25	1.46
6	7-T	487	TRP	N-CA	-16.86	1.25	1.46
6	8-T	487	TRP	N-CA	-16.86	1.25	1.46
4	1-R	463	ILE	CA-C	16.85	1.74	1.52
4	2-R	463	ILE	CA-C	16.85	1.74	1.52
4	3-R	463	ILE	CA-C	16.85	1.74	1.52
4	4-R	463	ILE	CA-C	16.85	1.74	1.52
4	5-R	463	ILE	CA-C	16.85	1.74	1.52
4	6-R	463	ILE	CA-C	16.85	1.74	1.52
4	7-R	463	ILE	CA-C	16.85	1.74	1.52
4	8-R	463	ILE	CA-C	16.85	1.74	1.52
4	1-F	463	ILE	CA-C	16.81	1.74	1.52
4	2-F	463	ILE	CA-C	16.81	1.74	1.52
4	3-F	463	ILE	CA-C	16.81	1.74	1.52
4	4-F	463	ILE	CA-C	16.81	1.74	1.52
4	5-F	463	ILE	CA-C	16.81	1.74	1.52
4	6-F	463	ILE	CA-C	16.81	1.74	1.52
4	7-F	463	ILE	CA-C	16.81	1.74	1.52
4	8-F	463	ILE	CA-C	16.81	1.74	1.52
4	1-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	2-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	3-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	4-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	5-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	6-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	7-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	8-L	402	ALA	CA-CB	-16.76	1.25	1.53
4	1-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	2-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	3-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	4-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	5-F	402	ALA	CA-CB	-16.76	1.25	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	7-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	8-F	402	ALA	CA-CB	-16.76	1.25	1.53
4	1-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	2-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	3-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	4-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	5-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	6-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	7-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	8-X	402	ALA	CA-CB	-16.76	1.25	1.53
4	1-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	2-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	3-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	4-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	5-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	6-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	7-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	8-R	402	ALA	CA-CB	-16.75	1.25	1.53
4	1-R	492	GLU	CA-C	16.61	1.75	1.52
4	2-R	492	GLU	CA-C	16.61	1.75	1.52
4	3-R	492	GLU	CA-C	16.61	1.75	1.52
4	4-R	492	GLU	CA-C	16.61	1.75	1.52
4	5-R	492	GLU	CA-C	16.61	1.75	1.52
4	6-R	492	GLU	CA-C	16.61	1.75	1.52
4	7-R	492	GLU	CA-C	16.61	1.75	1.52
4	8-R	492	GLU	CA-C	16.61	1.75	1.52
4	1-F	492	GLU	CA-C	16.60	1.75	1.52
4	2-F	492	GLU	CA-C	16.60	1.75	1.52
4	3-F	492	GLU	CA-C	16.60	1.75	1.52
4	4-F	492	GLU	CA-C	16.60	1.75	1.52
4	5-F	492	GLU	CA-C	16.60	1.75	1.52
4	6-F	492	GLU	CA-C	16.60	1.75	1.52
4	7-F	492	GLU	CA-C	16.60	1.75	1.52
4	8-F	492	GLU	CA-C	16.60	1.75	1.52
4	1-F	423	ALA	CA-C	-16.60	1.31	1.52
4	1-L	423	ALA	CA-C	-16.60	1.31	1.52
4	2-F	423	ALA	CA-C	-16.60	1.31	1.52
4	2-L	423	ALA	CA-C	-16.60	1.31	1.52
4	3-F	423	ALA	CA-C	-16.60	1.31	1.52
4	3-L	423	ALA	CA-C	-16.60	1.31	1.52
4	4-F	423	ALA	CA-C	-16.60	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	423	ALA	CA-C	-16.60	1.31	1.52
4	5-F	423	ALA	CA-C	-16.60	1.31	1.52
4	5-L	423	ALA	CA-C	-16.60	1.31	1.52
4	6-F	423	ALA	CA-C	-16.60	1.31	1.52
4	6-L	423	ALA	CA-C	-16.60	1.31	1.52
4	7-F	423	ALA	CA-C	-16.60	1.31	1.52
4	7-L	423	ALA	CA-C	-16.60	1.31	1.52
4	8-F	423	ALA	CA-C	-16.60	1.31	1.52
4	8-L	423	ALA	CA-C	-16.60	1.31	1.52
4	1-L	492	GLU	CA-C	16.57	1.75	1.52
4	1-X	492	GLU	CA-C	16.57	1.75	1.52
4	2-L	492	GLU	CA-C	16.57	1.75	1.52
4	2-X	492	GLU	CA-C	16.57	1.75	1.52
4	3-L	492	GLU	CA-C	16.57	1.75	1.52
4	3-X	492	GLU	CA-C	16.57	1.75	1.52
4	4-L	492	GLU	CA-C	16.57	1.75	1.52
4	4-X	492	GLU	CA-C	16.57	1.75	1.52
4	5-L	492	GLU	CA-C	16.57	1.75	1.52
4	5-X	492	GLU	CA-C	16.57	1.75	1.52
4	6-L	492	GLU	CA-C	16.57	1.75	1.52
4	6-X	492	GLU	CA-C	16.57	1.75	1.52
4	7-L	492	GLU	CA-C	16.57	1.75	1.52
4	7-X	492	GLU	CA-C	16.57	1.75	1.52
4	8-L	492	GLU	CA-C	16.57	1.75	1.52
4	8-X	492	GLU	CA-C	16.57	1.75	1.52
4	1-R	423	ALA	CA-C	-16.56	1.31	1.52
4	2-R	423	ALA	CA-C	-16.56	1.31	1.52
4	3-R	423	ALA	CA-C	-16.56	1.31	1.52
4	4-R	423	ALA	CA-C	-16.56	1.31	1.52
4	5-R	423	ALA	CA-C	-16.56	1.31	1.52
4	6-R	423	ALA	CA-C	-16.56	1.31	1.52
4	7-R	423	ALA	CA-C	-16.56	1.31	1.52
4	8-R	423	ALA	CA-C	-16.56	1.31	1.52
4	1-X	423	ALA	CA-C	-16.56	1.31	1.52
4	2-X	423	ALA	CA-C	-16.56	1.31	1.52
4	3-X	423	ALA	CA-C	-16.56	1.31	1.52
4	4-X	423	ALA	CA-C	-16.56	1.31	1.52
4	5-X	423	ALA	CA-C	-16.56	1.31	1.52
4	6-X	423	ALA	CA-C	-16.56	1.31	1.52
4	7-X	423	ALA	CA-C	-16.56	1.31	1.52
4	8-X	423	ALA	CA-C	-16.56	1.31	1.52
4	1-L	484	ASP	CA-C	-16.30	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	484	ASP	CA-C	-16.30	1.32	1.52
4	3-L	484	ASP	CA-C	-16.30	1.32	1.52
4	4-L	484	ASP	CA-C	-16.30	1.32	1.52
4	5-L	484	ASP	CA-C	-16.30	1.32	1.52
4	6-L	484	ASP	CA-C	-16.30	1.32	1.52
4	7-L	484	ASP	CA-C	-16.30	1.32	1.52
4	8-L	484	ASP	CA-C	-16.30	1.32	1.52
4	1-F	484	ASP	CA-C	-16.30	1.32	1.52
4	1-R	484	ASP	CA-C	-16.30	1.32	1.52
4	2-F	484	ASP	CA-C	-16.30	1.32	1.52
4	2-R	484	ASP	CA-C	-16.30	1.32	1.52
4	3-F	484	ASP	CA-C	-16.30	1.32	1.52
4	3-R	484	ASP	CA-C	-16.30	1.32	1.52
4	4-F	484	ASP	CA-C	-16.30	1.32	1.52
4	4-R	484	ASP	CA-C	-16.30	1.32	1.52
4	5-F	484	ASP	CA-C	-16.30	1.32	1.52
4	5-R	484	ASP	CA-C	-16.30	1.32	1.52
4	6-F	484	ASP	CA-C	-16.30	1.32	1.52
4	6-R	484	ASP	CA-C	-16.30	1.32	1.52
4	7-F	484	ASP	CA-C	-16.30	1.32	1.52
4	7-R	484	ASP	CA-C	-16.30	1.32	1.52
4	8-F	484	ASP	CA-C	-16.30	1.32	1.52
4	8-R	484	ASP	CA-C	-16.30	1.32	1.52
4	1-L	456	ASP	N-CA	-16.23	1.23	1.46
4	2-L	456	ASP	N-CA	-16.23	1.23	1.46
4	3-L	456	ASP	N-CA	-16.23	1.23	1.46
4	4-L	456	ASP	N-CA	-16.23	1.23	1.46
4	5-L	456	ASP	N-CA	-16.23	1.23	1.46
4	6-L	456	ASP	N-CA	-16.23	1.23	1.46
4	7-L	456	ASP	N-CA	-16.23	1.23	1.46
4	8-L	456	ASP	N-CA	-16.23	1.23	1.46
4	1-X	484	ASP	CA-C	-16.22	1.32	1.52
4	2-X	484	ASP	CA-C	-16.22	1.32	1.52
4	3-X	484	ASP	CA-C	-16.22	1.32	1.52
4	4-X	484	ASP	CA-C	-16.22	1.32	1.52
4	5-X	484	ASP	CA-C	-16.22	1.32	1.52
4	6-X	484	ASP	CA-C	-16.22	1.32	1.52
4	7-X	484	ASP	CA-C	-16.22	1.32	1.52
4	8-X	484	ASP	CA-C	-16.22	1.32	1.52
4	1-R	456	ASP	N-CA	-16.22	1.23	1.46
4	2-R	456	ASP	N-CA	-16.22	1.23	1.46
4	3-R	456	ASP	N-CA	-16.22	1.23	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	456	ASP	N-CA	-16.22	1.23	1.46
4	5-R	456	ASP	N-CA	-16.22	1.23	1.46
4	6-R	456	ASP	N-CA	-16.22	1.23	1.46
4	7-R	456	ASP	N-CA	-16.22	1.23	1.46
4	8-R	456	ASP	N-CA	-16.22	1.23	1.46
4	1-F	456	ASP	N-CA	-16.20	1.23	1.46
4	2-F	456	ASP	N-CA	-16.20	1.23	1.46
4	3-F	456	ASP	N-CA	-16.20	1.23	1.46
4	4-F	456	ASP	N-CA	-16.20	1.23	1.46
4	5-F	456	ASP	N-CA	-16.20	1.23	1.46
4	6-F	456	ASP	N-CA	-16.20	1.23	1.46
4	7-F	456	ASP	N-CA	-16.20	1.23	1.46
4	8-F	456	ASP	N-CA	-16.20	1.23	1.46
4	1-X	456	ASP	N-CA	-16.19	1.23	1.46
4	2-X	456	ASP	N-CA	-16.19	1.23	1.46
4	3-X	456	ASP	N-CA	-16.19	1.23	1.46
4	4-X	456	ASP	N-CA	-16.19	1.23	1.46
4	5-X	456	ASP	N-CA	-16.19	1.23	1.46
4	6-X	456	ASP	N-CA	-16.19	1.23	1.46
4	7-X	456	ASP	N-CA	-16.19	1.23	1.46
4	8-X	456	ASP	N-CA	-16.19	1.23	1.46
6	1-Z	420	THR	CA-C	-16.16	1.31	1.52
6	2-Z	420	THR	CA-C	-16.16	1.31	1.52
6	3-Z	420	THR	CA-C	-16.16	1.31	1.52
6	4-Z	420	THR	CA-C	-16.16	1.31	1.52
6	5-Z	420	THR	CA-C	-16.16	1.31	1.52
6	6-Z	420	THR	CA-C	-16.16	1.31	1.52
6	7-Z	420	THR	CA-C	-16.16	1.31	1.52
6	8-Z	420	THR	CA-C	-16.16	1.31	1.52
6	1-N	462	GLY	C-N	16.11	1.57	1.34
6	2-N	462	GLY	C-N	16.11	1.57	1.34
6	3-N	462	GLY	C-N	16.11	1.57	1.34
6	4-N	462	GLY	C-N	16.11	1.57	1.34
6	5-N	462	GLY	C-N	16.11	1.57	1.34
6	6-N	462	GLY	C-N	16.11	1.57	1.34
6	7-N	462	GLY	C-N	16.11	1.57	1.34
6	8-N	462	GLY	C-N	16.11	1.57	1.34
6	1-N	420	THR	CA-C	-16.11	1.32	1.52
6	2-N	420	THR	CA-C	-16.11	1.32	1.52
6	3-N	420	THR	CA-C	-16.11	1.32	1.52
6	4-N	420	THR	CA-C	-16.11	1.32	1.52
6	5-N	420	THR	CA-C	-16.11	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-N	420	THR	CA-C	-16.11	1.32	1.52
6	7-N	420	THR	CA-C	-16.11	1.32	1.52
6	8-N	420	THR	CA-C	-16.11	1.32	1.52
6	1-H	462	GLY	C-N	16.09	1.57	1.34
6	2-H	462	GLY	C-N	16.09	1.57	1.34
6	3-H	462	GLY	C-N	16.09	1.57	1.34
6	4-H	462	GLY	C-N	16.09	1.57	1.34
6	5-H	462	GLY	C-N	16.09	1.57	1.34
6	6-H	462	GLY	C-N	16.09	1.57	1.34
6	7-H	462	GLY	C-N	16.09	1.57	1.34
6	8-H	462	GLY	C-N	16.09	1.57	1.34
6	1-Z	462	GLY	C-N	16.09	1.57	1.34
6	2-Z	462	GLY	C-N	16.09	1.57	1.34
6	3-Z	462	GLY	C-N	16.09	1.57	1.34
6	4-Z	462	GLY	C-N	16.09	1.57	1.34
6	5-Z	462	GLY	C-N	16.09	1.57	1.34
6	6-Z	462	GLY	C-N	16.09	1.57	1.34
6	7-Z	462	GLY	C-N	16.09	1.57	1.34
6	8-Z	462	GLY	C-N	16.09	1.57	1.34
6	1-T	462	GLY	C-N	16.08	1.57	1.34
6	2-T	462	GLY	C-N	16.08	1.57	1.34
6	3-T	462	GLY	C-N	16.08	1.57	1.34
6	4-T	462	GLY	C-N	16.08	1.57	1.34
6	5-T	462	GLY	C-N	16.08	1.57	1.34
6	6-T	462	GLY	C-N	16.08	1.57	1.34
6	7-T	462	GLY	C-N	16.08	1.57	1.34
6	8-T	462	GLY	C-N	16.08	1.57	1.34
6	1-T	420	THR	CA-C	-16.06	1.32	1.52
6	2-T	420	THR	CA-C	-16.06	1.32	1.52
6	3-T	420	THR	CA-C	-16.06	1.32	1.52
6	4-T	420	THR	CA-C	-16.06	1.32	1.52
6	5-T	420	THR	CA-C	-16.06	1.32	1.52
6	6-T	420	THR	CA-C	-16.06	1.32	1.52
6	7-T	420	THR	CA-C	-16.06	1.32	1.52
6	8-T	420	THR	CA-C	-16.06	1.32	1.52
6	1-H	420	THR	CA-C	-16.05	1.32	1.52
6	2-H	420	THR	CA-C	-16.05	1.32	1.52
6	3-H	420	THR	CA-C	-16.05	1.32	1.52
6	4-H	420	THR	CA-C	-16.05	1.32	1.52
6	5-H	420	THR	CA-C	-16.05	1.32	1.52
6	6-H	420	THR	CA-C	-16.05	1.32	1.52
6	7-H	420	THR	CA-C	-16.05	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-H	420	THR	CA-C	-16.05	1.32	1.52
6	1-T	385	ASP	CA-C	-16.01	1.32	1.52
6	2-T	385	ASP	CA-C	-16.01	1.32	1.52
6	3-T	385	ASP	CA-C	-16.01	1.32	1.52
6	4-T	385	ASP	CA-C	-16.01	1.32	1.52
6	5-T	385	ASP	CA-C	-16.01	1.32	1.52
6	6-T	385	ASP	CA-C	-16.01	1.32	1.52
6	7-T	385	ASP	CA-C	-16.01	1.32	1.52
6	8-T	385	ASP	CA-C	-16.01	1.32	1.52
6	1-N	385	ASP	CA-C	-16.01	1.32	1.52
6	2-N	385	ASP	CA-C	-16.01	1.32	1.52
6	3-N	385	ASP	CA-C	-16.01	1.32	1.52
6	4-N	385	ASP	CA-C	-16.01	1.32	1.52
6	5-N	385	ASP	CA-C	-16.01	1.32	1.52
6	6-N	385	ASP	CA-C	-16.01	1.32	1.52
6	7-N	385	ASP	CA-C	-16.01	1.32	1.52
6	8-N	385	ASP	CA-C	-16.01	1.32	1.52
6	1-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	2-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	3-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	4-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	5-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	6-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	7-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	8-Z	385	ASP	CA-C	-16.00	1.32	1.52
6	1-H	385	ASP	CA-C	-15.97	1.32	1.52
6	2-H	385	ASP	CA-C	-15.97	1.32	1.52
6	3-H	385	ASP	CA-C	-15.97	1.32	1.52
6	4-H	385	ASP	CA-C	-15.97	1.32	1.52
6	5-H	385	ASP	CA-C	-15.97	1.32	1.52
6	6-H	385	ASP	CA-C	-15.97	1.32	1.52
6	7-H	385	ASP	CA-C	-15.97	1.32	1.52
6	8-H	385	ASP	CA-C	-15.97	1.32	1.52
4	1-X	493	HIS	N-CA	15.96	1.76	1.46
4	2-X	493	HIS	N-CA	15.96	1.76	1.46
4	3-X	493	HIS	N-CA	15.96	1.76	1.46
4	4-X	493	HIS	N-CA	15.96	1.76	1.46
4	5-X	493	HIS	N-CA	15.96	1.76	1.46
4	6-X	493	HIS	N-CA	15.96	1.76	1.46
4	7-X	493	HIS	N-CA	15.96	1.76	1.46
4	8-X	493	HIS	N-CA	15.96	1.76	1.46
4	1-L	493	HIS	N-CA	15.93	1.76	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	493	HIS	N-CA	15.93	1.76	1.46
4	3-L	493	HIS	N-CA	15.93	1.76	1.46
4	4-L	493	HIS	N-CA	15.93	1.76	1.46
4	5-L	493	HIS	N-CA	15.93	1.76	1.46
4	6-L	493	HIS	N-CA	15.93	1.76	1.46
4	7-L	493	HIS	N-CA	15.93	1.76	1.46
4	8-L	493	HIS	N-CA	15.93	1.76	1.46
4	1-R	493	HIS	N-CA	15.92	1.76	1.46
4	2-R	493	HIS	N-CA	15.92	1.76	1.46
4	3-R	493	HIS	N-CA	15.92	1.76	1.46
4	4-R	493	HIS	N-CA	15.92	1.76	1.46
4	5-R	493	HIS	N-CA	15.92	1.76	1.46
4	6-R	493	HIS	N-CA	15.92	1.76	1.46
4	7-R	493	HIS	N-CA	15.92	1.76	1.46
4	8-R	493	HIS	N-CA	15.92	1.76	1.46
4	1-F	493	HIS	N-CA	15.91	1.76	1.46
4	2-F	493	HIS	N-CA	15.91	1.76	1.46
4	3-F	493	HIS	N-CA	15.91	1.76	1.46
4	4-F	493	HIS	N-CA	15.91	1.76	1.46
4	5-F	493	HIS	N-CA	15.91	1.76	1.46
4	6-F	493	HIS	N-CA	15.91	1.76	1.46
4	7-F	493	HIS	N-CA	15.91	1.76	1.46
4	8-F	493	HIS	N-CA	15.91	1.76	1.46
4	1-R	461	ARG	N-CA	15.88	1.66	1.46
4	2-R	461	ARG	N-CA	15.88	1.66	1.46
4	3-R	461	ARG	N-CA	15.88	1.66	1.46
4	4-R	461	ARG	N-CA	15.88	1.66	1.46
4	5-R	461	ARG	N-CA	15.88	1.66	1.46
4	6-R	461	ARG	N-CA	15.88	1.66	1.46
4	7-R	461	ARG	N-CA	15.88	1.66	1.46
4	8-R	461	ARG	N-CA	15.88	1.66	1.46
4	1-L	461	ARG	N-CA	15.86	1.66	1.46
4	2-L	461	ARG	N-CA	15.86	1.66	1.46
4	3-L	461	ARG	N-CA	15.86	1.66	1.46
4	4-L	461	ARG	N-CA	15.86	1.66	1.46
4	5-L	461	ARG	N-CA	15.86	1.66	1.46
4	6-L	461	ARG	N-CA	15.86	1.66	1.46
4	7-L	461	ARG	N-CA	15.86	1.66	1.46
4	8-L	461	ARG	N-CA	15.86	1.66	1.46
4	1-X	461	ARG	N-CA	15.86	1.66	1.46
4	2-X	461	ARG	N-CA	15.86	1.66	1.46
4	3-X	461	ARG	N-CA	15.86	1.66	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	461	ARG	N-CA	15.86	1.66	1.46
4	5-X	461	ARG	N-CA	15.86	1.66	1.46
4	6-X	461	ARG	N-CA	15.86	1.66	1.46
4	7-X	461	ARG	N-CA	15.86	1.66	1.46
4	8-X	461	ARG	N-CA	15.86	1.66	1.46
4	1-F	461	ARG	N-CA	15.85	1.66	1.46
4	2-F	461	ARG	N-CA	15.85	1.66	1.46
4	3-F	461	ARG	N-CA	15.85	1.66	1.46
4	4-F	461	ARG	N-CA	15.85	1.66	1.46
4	5-F	461	ARG	N-CA	15.85	1.66	1.46
4	6-F	461	ARG	N-CA	15.85	1.66	1.46
4	7-F	461	ARG	N-CA	15.85	1.66	1.46
4	8-F	461	ARG	N-CA	15.85	1.66	1.46
3	1-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	2-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	3-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	4-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	5-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	6-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	7-V	1512	TRP	N-CA	-15.83	1.26	1.46
3	8-V	1512	TRP	N-CA	-15.83	1.26	1.46
5	1-S	393	TYR	N-CA	15.81	1.67	1.46
5	2-S	393	TYR	N-CA	15.81	1.67	1.46
5	3-S	393	TYR	N-CA	15.81	1.67	1.46
5	4-S	393	TYR	N-CA	15.81	1.67	1.46
5	5-S	393	TYR	N-CA	15.81	1.67	1.46
5	6-S	393	TYR	N-CA	15.81	1.67	1.46
5	7-S	393	TYR	N-CA	15.81	1.67	1.46
5	8-S	393	TYR	N-CA	15.81	1.67	1.46
5	1-G	393	TYR	N-CA	15.80	1.67	1.46
5	2-G	393	TYR	N-CA	15.80	1.67	1.46
5	3-G	393	TYR	N-CA	15.80	1.67	1.46
5	4-G	393	TYR	N-CA	15.80	1.67	1.46
5	5-G	393	TYR	N-CA	15.80	1.67	1.46
5	6-G	393	TYR	N-CA	15.80	1.67	1.46
5	7-G	393	TYR	N-CA	15.80	1.67	1.46
5	8-G	393	TYR	N-CA	15.80	1.67	1.46
4	1-R	367	THR	C-N	15.79	1.54	1.33
4	2-R	367	THR	C-N	15.79	1.54	1.33
4	3-R	367	THR	C-N	15.79	1.54	1.33
4	4-R	367	THR	C-N	15.79	1.54	1.33
4	5-R	367	THR	C-N	15.79	1.54	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	367	THR	C-N	15.79	1.54	1.33
4	7-R	367	THR	C-N	15.79	1.54	1.33
4	8-R	367	THR	C-N	15.79	1.54	1.33
3	1-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	1-Y	393	TYR	N-CA	15.78	1.67	1.46
3	2-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	2-Y	393	TYR	N-CA	15.78	1.67	1.46
3	3-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	3-Y	393	TYR	N-CA	15.78	1.67	1.46
3	4-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	4-Y	393	TYR	N-CA	15.78	1.67	1.46
3	5-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	5-Y	393	TYR	N-CA	15.78	1.67	1.46
3	6-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	6-Y	393	TYR	N-CA	15.78	1.67	1.46
3	7-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	7-Y	393	TYR	N-CA	15.78	1.67	1.46
3	8-D	1512	TRP	N-CA	-15.78	1.26	1.46
5	8-Y	393	TYR	N-CA	15.78	1.67	1.46
3	1-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	2-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	3-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	4-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	5-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	6-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	7-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	8-J	1512	TRP	N-CA	-15.77	1.26	1.46
3	1-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	2-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	3-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	4-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	5-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	6-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	7-P	1512	TRP	N-CA	-15.76	1.26	1.46
3	8-P	1512	TRP	N-CA	-15.76	1.26	1.46
4	1-X	367	THR	C-N	15.76	1.54	1.33
4	2-X	367	THR	C-N	15.76	1.54	1.33
4	3-X	367	THR	C-N	15.76	1.54	1.33
4	4-X	367	THR	C-N	15.76	1.54	1.33
4	5-X	367	THR	C-N	15.76	1.54	1.33
4	6-X	367	THR	C-N	15.76	1.54	1.33
4	7-X	367	THR	C-N	15.76	1.54	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	367	THR	C-N	15.76	1.54	1.33
4	1-F	367	THR	C-N	15.74	1.54	1.33
4	2-F	367	THR	C-N	15.74	1.54	1.33
4	3-F	367	THR	C-N	15.74	1.54	1.33
4	4-F	367	THR	C-N	15.74	1.54	1.33
4	5-F	367	THR	C-N	15.74	1.54	1.33
4	6-F	367	THR	C-N	15.74	1.54	1.33
4	7-F	367	THR	C-N	15.74	1.54	1.33
4	8-F	367	THR	C-N	15.74	1.54	1.33
5	1-M	393	TYR	N-CA	15.73	1.67	1.46
5	2-M	393	TYR	N-CA	15.73	1.67	1.46
5	3-M	393	TYR	N-CA	15.73	1.67	1.46
5	4-M	393	TYR	N-CA	15.73	1.67	1.46
5	5-M	393	TYR	N-CA	15.73	1.67	1.46
5	6-M	393	TYR	N-CA	15.73	1.67	1.46
5	7-M	393	TYR	N-CA	15.73	1.67	1.46
5	8-M	393	TYR	N-CA	15.73	1.67	1.46
4	1-L	367	THR	C-N	15.71	1.54	1.33
4	2-L	367	THR	C-N	15.71	1.54	1.33
4	3-L	367	THR	C-N	15.71	1.54	1.33
4	4-L	367	THR	C-N	15.71	1.54	1.33
4	5-L	367	THR	C-N	15.71	1.54	1.33
4	6-L	367	THR	C-N	15.71	1.54	1.33
4	7-L	367	THR	C-N	15.71	1.54	1.33
4	8-L	367	THR	C-N	15.71	1.54	1.33
5	1-G	369	ASN	CA-C	-15.60	1.31	1.52
5	2-G	369	ASN	CA-C	-15.60	1.31	1.52
5	3-G	369	ASN	CA-C	-15.60	1.31	1.52
5	4-G	369	ASN	CA-C	-15.60	1.31	1.52
5	5-G	369	ASN	CA-C	-15.60	1.31	1.52
5	6-G	369	ASN	CA-C	-15.60	1.31	1.52
5	7-G	369	ASN	CA-C	-15.60	1.31	1.52
5	8-G	369	ASN	CA-C	-15.60	1.31	1.52
5	1-S	369	ASN	CA-C	-15.55	1.31	1.52
5	2-S	369	ASN	CA-C	-15.55	1.31	1.52
5	3-S	369	ASN	CA-C	-15.55	1.31	1.52
5	4-S	369	ASN	CA-C	-15.55	1.31	1.52
5	5-S	369	ASN	CA-C	-15.55	1.31	1.52
5	6-S	369	ASN	CA-C	-15.55	1.31	1.52
5	7-S	369	ASN	CA-C	-15.55	1.31	1.52
5	8-S	369	ASN	CA-C	-15.55	1.31	1.52
6	1-H	402	GLU	CA-C	-15.55	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-S	341	ALA	CA-C	15.55	1.72	1.52
6	2-H	402	GLU	CA-C	-15.55	1.33	1.52
5	2-S	341	ALA	CA-C	15.55	1.72	1.52
6	3-H	402	GLU	CA-C	-15.55	1.33	1.52
5	3-S	341	ALA	CA-C	15.55	1.72	1.52
6	4-H	402	GLU	CA-C	-15.55	1.33	1.52
5	4-S	341	ALA	CA-C	15.55	1.72	1.52
6	5-H	402	GLU	CA-C	-15.55	1.33	1.52
5	5-S	341	ALA	CA-C	15.55	1.72	1.52
6	6-H	402	GLU	CA-C	-15.55	1.33	1.52
5	6-S	341	ALA	CA-C	15.55	1.72	1.52
6	7-H	402	GLU	CA-C	-15.55	1.33	1.52
5	7-S	341	ALA	CA-C	15.55	1.72	1.52
6	8-H	402	GLU	CA-C	-15.55	1.33	1.52
5	8-S	341	ALA	CA-C	15.55	1.72	1.52
5	1-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	2-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	3-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	4-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	5-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	6-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	7-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	8-Y	369	ASN	CA-C	-15.53	1.31	1.52
5	1-M	369	ASN	CA-C	-15.52	1.31	1.52
5	2-M	369	ASN	CA-C	-15.52	1.31	1.52
5	3-M	369	ASN	CA-C	-15.52	1.31	1.52
5	4-M	369	ASN	CA-C	-15.52	1.31	1.52
5	5-M	369	ASN	CA-C	-15.52	1.31	1.52
5	6-M	369	ASN	CA-C	-15.52	1.31	1.52
5	7-M	369	ASN	CA-C	-15.52	1.31	1.52
5	8-M	369	ASN	CA-C	-15.52	1.31	1.52
5	1-Y	341	ALA	CA-C	15.51	1.72	1.52
5	2-Y	341	ALA	CA-C	15.51	1.72	1.52
5	3-Y	341	ALA	CA-C	15.51	1.72	1.52
5	4-Y	341	ALA	CA-C	15.51	1.72	1.52
5	5-Y	341	ALA	CA-C	15.51	1.72	1.52
5	6-Y	341	ALA	CA-C	15.51	1.72	1.52
5	7-Y	341	ALA	CA-C	15.51	1.72	1.52
5	8-Y	341	ALA	CA-C	15.51	1.72	1.52
6	1-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	2-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	3-Z	487	TRP	CA-C	-15.51	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	5-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	6-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	7-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	8-Z	487	TRP	CA-C	-15.51	1.32	1.52
6	1-H	487	TRP	CA-C	-15.50	1.32	1.52
6	2-H	487	TRP	CA-C	-15.50	1.32	1.52
6	3-H	487	TRP	CA-C	-15.50	1.32	1.52
6	4-H	487	TRP	CA-C	-15.50	1.32	1.52
6	5-H	487	TRP	CA-C	-15.50	1.32	1.52
6	6-H	487	TRP	CA-C	-15.50	1.32	1.52
6	7-H	487	TRP	CA-C	-15.50	1.32	1.52
6	8-H	487	TRP	CA-C	-15.50	1.32	1.52
5	1-G	341	ALA	CA-C	15.50	1.72	1.52
5	2-G	341	ALA	CA-C	15.50	1.72	1.52
5	3-G	341	ALA	CA-C	15.50	1.72	1.52
5	4-G	341	ALA	CA-C	15.50	1.72	1.52
5	5-G	341	ALA	CA-C	15.50	1.72	1.52
5	6-G	341	ALA	CA-C	15.50	1.72	1.52
5	7-G	341	ALA	CA-C	15.50	1.72	1.52
5	8-G	341	ALA	CA-C	15.50	1.72	1.52
6	1-N	402	GLU	CA-C	-15.49	1.33	1.52
6	1-T	402	GLU	CA-C	-15.49	1.33	1.52
6	2-N	402	GLU	CA-C	-15.49	1.33	1.52
6	2-T	402	GLU	CA-C	-15.49	1.33	1.52
6	3-N	402	GLU	CA-C	-15.49	1.33	1.52
6	3-T	402	GLU	CA-C	-15.49	1.33	1.52
6	4-N	402	GLU	CA-C	-15.49	1.33	1.52
6	4-T	402	GLU	CA-C	-15.49	1.33	1.52
6	5-N	402	GLU	CA-C	-15.49	1.33	1.52
6	5-T	402	GLU	CA-C	-15.49	1.33	1.52
6	6-N	402	GLU	CA-C	-15.49	1.33	1.52
6	6-T	402	GLU	CA-C	-15.49	1.33	1.52
6	7-N	402	GLU	CA-C	-15.49	1.33	1.52
6	7-T	402	GLU	CA-C	-15.49	1.33	1.52
6	8-N	402	GLU	CA-C	-15.49	1.33	1.52
6	8-T	402	GLU	CA-C	-15.49	1.33	1.52
5	1-S	346	PHE	CA-C	-15.49	1.33	1.52
5	2-S	346	PHE	CA-C	-15.49	1.33	1.52
5	3-S	346	PHE	CA-C	-15.49	1.33	1.52
5	4-S	346	PHE	CA-C	-15.49	1.33	1.52
5	5-S	346	PHE	CA-C	-15.49	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-S	346	PHE	CA-C	-15.49	1.33	1.52
5	7-S	346	PHE	CA-C	-15.49	1.33	1.52
5	8-S	346	PHE	CA-C	-15.49	1.33	1.52
5	1-M	346	PHE	CA-C	-15.48	1.33	1.52
5	2-M	346	PHE	CA-C	-15.48	1.33	1.52
5	3-M	346	PHE	CA-C	-15.48	1.33	1.52
5	4-M	346	PHE	CA-C	-15.48	1.33	1.52
5	5-M	346	PHE	CA-C	-15.48	1.33	1.52
5	6-M	346	PHE	CA-C	-15.48	1.33	1.52
5	7-M	346	PHE	CA-C	-15.48	1.33	1.52
5	8-M	346	PHE	CA-C	-15.48	1.33	1.52
6	1-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	2-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	3-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	4-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	5-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	6-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	7-Z	402	GLU	CA-C	-15.47	1.33	1.52
6	8-Z	402	GLU	CA-C	-15.47	1.33	1.52
5	1-G	346	PHE	CA-C	-15.46	1.33	1.52
5	2-G	346	PHE	CA-C	-15.46	1.33	1.52
5	3-G	346	PHE	CA-C	-15.46	1.33	1.52
5	4-G	346	PHE	CA-C	-15.46	1.33	1.52
5	5-G	346	PHE	CA-C	-15.46	1.33	1.52
5	6-G	346	PHE	CA-C	-15.46	1.33	1.52
5	7-G	346	PHE	CA-C	-15.46	1.33	1.52
5	8-G	346	PHE	CA-C	-15.46	1.33	1.52
5	1-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	2-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	3-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	4-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	5-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	6-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	7-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	8-S	348	ILE	CA-CB	-15.46	1.34	1.54
5	1-M	341	ALA	CA-C	15.46	1.72	1.52
5	1-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	2-M	341	ALA	CA-C	15.46	1.72	1.52
5	2-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	3-M	341	ALA	CA-C	15.46	1.72	1.52
5	3-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	4-M	341	ALA	CA-C	15.46	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	5-M	341	ALA	CA-C	15.46	1.72	1.52
5	5-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	6-M	341	ALA	CA-C	15.46	1.72	1.52
5	6-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	7-M	341	ALA	CA-C	15.46	1.72	1.52
5	7-Y	346	PHE	CA-C	-15.46	1.33	1.52
5	8-M	341	ALA	CA-C	15.46	1.72	1.52
5	8-Y	346	PHE	CA-C	-15.46	1.33	1.52
6	1-N	411	GLU	C-O	-15.45	1.04	1.24
6	2-N	411	GLU	C-O	-15.45	1.04	1.24
6	3-N	411	GLU	C-O	-15.45	1.04	1.24
6	4-N	411	GLU	C-O	-15.45	1.04	1.24
6	5-N	411	GLU	C-O	-15.45	1.04	1.24
6	6-N	411	GLU	C-O	-15.45	1.04	1.24
6	7-N	411	GLU	C-O	-15.45	1.04	1.24
6	8-N	411	GLU	C-O	-15.45	1.04	1.24
6	1-H	411	GLU	C-O	-15.44	1.04	1.24
6	1-T	487	TRP	CA-C	-15.44	1.32	1.52
6	2-H	411	GLU	C-O	-15.44	1.04	1.24
6	2-T	487	TRP	CA-C	-15.44	1.32	1.52
6	3-H	411	GLU	C-O	-15.44	1.04	1.24
6	3-T	487	TRP	CA-C	-15.44	1.32	1.52
6	4-H	411	GLU	C-O	-15.44	1.04	1.24
6	4-T	487	TRP	CA-C	-15.44	1.32	1.52
6	5-H	411	GLU	C-O	-15.44	1.04	1.24
6	5-T	487	TRP	CA-C	-15.44	1.32	1.52
6	6-H	411	GLU	C-O	-15.44	1.04	1.24
6	6-T	487	TRP	CA-C	-15.44	1.32	1.52
6	7-H	411	GLU	C-O	-15.44	1.04	1.24
6	7-T	487	TRP	CA-C	-15.44	1.32	1.52
6	8-H	411	GLU	C-O	-15.44	1.04	1.24
6	8-T	487	TRP	CA-C	-15.44	1.32	1.52
6	1-N	487	TRP	CA-C	-15.44	1.32	1.52
6	2-N	487	TRP	CA-C	-15.44	1.32	1.52
6	3-N	487	TRP	CA-C	-15.44	1.32	1.52
6	4-N	487	TRP	CA-C	-15.44	1.32	1.52
6	5-N	487	TRP	CA-C	-15.44	1.32	1.52
6	6-N	487	TRP	CA-C	-15.44	1.32	1.52
6	7-N	487	TRP	CA-C	-15.44	1.32	1.52
6	8-N	487	TRP	CA-C	-15.44	1.32	1.52
6	1-T	411	GLU	C-O	-15.43	1.04	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	411	GLU	C-O	-15.43	1.04	1.24
6	3-T	411	GLU	C-O	-15.43	1.04	1.24
6	4-T	411	GLU	C-O	-15.43	1.04	1.24
6	5-T	411	GLU	C-O	-15.43	1.04	1.24
6	6-T	411	GLU	C-O	-15.43	1.04	1.24
6	7-T	411	GLU	C-O	-15.43	1.04	1.24
6	8-T	411	GLU	C-O	-15.43	1.04	1.24
5	1-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	2-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	3-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	4-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	5-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	6-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	7-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	8-M	348	ILE	CA-CB	-15.42	1.34	1.54
5	1-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	2-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	3-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	4-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	5-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	6-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	7-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	8-G	348	ILE	CA-CB	-15.42	1.34	1.54
5	1-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	2-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	3-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	4-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	5-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	6-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	7-Y	348	ILE	CA-CB	-15.41	1.34	1.54
5	8-Y	348	ILE	CA-CB	-15.41	1.34	1.54
6	1-Z	411	GLU	C-O	-15.38	1.04	1.24
6	2-Z	411	GLU	C-O	-15.38	1.04	1.24
6	3-Z	411	GLU	C-O	-15.38	1.04	1.24
6	4-Z	411	GLU	C-O	-15.38	1.04	1.24
6	5-Z	411	GLU	C-O	-15.38	1.04	1.24
6	6-Z	411	GLU	C-O	-15.38	1.04	1.24
6	7-Z	411	GLU	C-O	-15.38	1.04	1.24
6	8-Z	411	GLU	C-O	-15.38	1.04	1.24
4	1-X	452	ARG	CA-C	15.36	1.73	1.52
4	2-X	452	ARG	CA-C	15.36	1.73	1.52
4	3-X	452	ARG	CA-C	15.36	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	452	ARG	CA-C	15.36	1.73	1.52
4	5-X	452	ARG	CA-C	15.36	1.73	1.52
4	6-X	452	ARG	CA-C	15.36	1.73	1.52
4	7-X	452	ARG	CA-C	15.36	1.73	1.52
4	8-X	452	ARG	CA-C	15.36	1.73	1.52
4	1-F	452	ARG	CA-C	15.35	1.73	1.52
4	2-F	452	ARG	CA-C	15.35	1.73	1.52
4	3-F	452	ARG	CA-C	15.35	1.73	1.52
4	4-F	452	ARG	CA-C	15.35	1.73	1.52
4	5-F	452	ARG	CA-C	15.35	1.73	1.52
4	6-F	452	ARG	CA-C	15.35	1.73	1.52
4	7-F	452	ARG	CA-C	15.35	1.73	1.52
4	8-F	452	ARG	CA-C	15.35	1.73	1.52
4	1-L	452	ARG	CA-C	15.34	1.73	1.52
4	2-L	452	ARG	CA-C	15.34	1.73	1.52
4	3-L	452	ARG	CA-C	15.34	1.73	1.52
4	4-L	452	ARG	CA-C	15.34	1.73	1.52
4	5-L	452	ARG	CA-C	15.34	1.73	1.52
4	6-L	452	ARG	CA-C	15.34	1.73	1.52
4	7-L	452	ARG	CA-C	15.34	1.73	1.52
4	8-L	452	ARG	CA-C	15.34	1.73	1.52
4	1-R	452	ARG	CA-C	15.31	1.73	1.52
4	2-R	452	ARG	CA-C	15.31	1.73	1.52
4	3-R	452	ARG	CA-C	15.31	1.73	1.52
4	4-R	452	ARG	CA-C	15.31	1.73	1.52
4	5-R	452	ARG	CA-C	15.31	1.73	1.52
4	6-R	452	ARG	CA-C	15.31	1.73	1.52
4	7-R	452	ARG	CA-C	15.31	1.73	1.52
4	8-R	452	ARG	CA-C	15.31	1.73	1.52
6	1-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	2-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	3-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	4-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	5-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	6-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	7-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	8-Z	341	SER	CA-CB	-15.26	1.29	1.53
6	1-T	341	SER	CA-CB	-15.26	1.29	1.53
6	2-T	341	SER	CA-CB	-15.26	1.29	1.53
6	3-T	341	SER	CA-CB	-15.26	1.29	1.53
6	4-T	341	SER	CA-CB	-15.26	1.29	1.53
6	5-T	341	SER	CA-CB	-15.26	1.29	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-T	341	SER	CA-CB	-15.26	1.29	1.53
6	7-T	341	SER	CA-CB	-15.26	1.29	1.53
6	8-T	341	SER	CA-CB	-15.26	1.29	1.53
6	1-H	341	SER	CA-CB	-15.25	1.29	1.53
6	2-H	341	SER	CA-CB	-15.25	1.29	1.53
6	3-H	341	SER	CA-CB	-15.25	1.29	1.53
6	4-H	341	SER	CA-CB	-15.25	1.29	1.53
6	5-H	341	SER	CA-CB	-15.25	1.29	1.53
6	6-H	341	SER	CA-CB	-15.25	1.29	1.53
6	7-H	341	SER	CA-CB	-15.25	1.29	1.53
6	8-H	341	SER	CA-CB	-15.25	1.29	1.53
6	1-N	341	SER	CA-CB	-15.25	1.29	1.53
4	1-X	445	GLY	N-CA	-15.25	1.26	1.45
6	2-N	341	SER	CA-CB	-15.25	1.29	1.53
4	2-X	445	GLY	N-CA	-15.25	1.26	1.45
6	3-N	341	SER	CA-CB	-15.25	1.29	1.53
4	3-X	445	GLY	N-CA	-15.25	1.26	1.45
6	4-N	341	SER	CA-CB	-15.25	1.29	1.53
4	4-X	445	GLY	N-CA	-15.25	1.26	1.45
6	5-N	341	SER	CA-CB	-15.25	1.29	1.53
4	5-X	445	GLY	N-CA	-15.25	1.26	1.45
6	6-N	341	SER	CA-CB	-15.25	1.29	1.53
4	6-X	445	GLY	N-CA	-15.25	1.26	1.45
6	7-N	341	SER	CA-CB	-15.25	1.29	1.53
4	7-X	445	GLY	N-CA	-15.25	1.26	1.45
6	8-N	341	SER	CA-CB	-15.25	1.29	1.53
4	8-X	445	GLY	N-CA	-15.25	1.26	1.45
4	1-R	445	GLY	N-CA	-15.21	1.26	1.45
4	2-R	445	GLY	N-CA	-15.21	1.26	1.45
4	3-R	445	GLY	N-CA	-15.21	1.26	1.45
4	4-R	445	GLY	N-CA	-15.21	1.26	1.45
4	5-R	445	GLY	N-CA	-15.21	1.26	1.45
4	6-R	445	GLY	N-CA	-15.21	1.26	1.45
4	7-R	445	GLY	N-CA	-15.21	1.26	1.45
4	8-R	445	GLY	N-CA	-15.21	1.26	1.45
4	1-L	420	GLU	CA-C	-15.20	1.33	1.52
4	2-L	420	GLU	CA-C	-15.20	1.33	1.52
4	3-L	420	GLU	CA-C	-15.20	1.33	1.52
4	4-L	420	GLU	CA-C	-15.20	1.33	1.52
4	5-L	420	GLU	CA-C	-15.20	1.33	1.52
4	6-L	420	GLU	CA-C	-15.20	1.33	1.52
4	7-L	420	GLU	CA-C	-15.20	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	420	GLU	CA-C	-15.20	1.33	1.52
4	1-X	420	GLU	CA-C	-15.19	1.33	1.52
4	2-X	420	GLU	CA-C	-15.19	1.33	1.52
4	3-X	420	GLU	CA-C	-15.19	1.33	1.52
4	4-X	420	GLU	CA-C	-15.19	1.33	1.52
4	5-X	420	GLU	CA-C	-15.19	1.33	1.52
4	6-X	420	GLU	CA-C	-15.19	1.33	1.52
4	7-X	420	GLU	CA-C	-15.19	1.33	1.52
4	8-X	420	GLU	CA-C	-15.19	1.33	1.52
4	1-F	420	GLU	CA-C	-15.18	1.33	1.52
4	2-F	420	GLU	CA-C	-15.18	1.33	1.52
4	3-F	420	GLU	CA-C	-15.18	1.33	1.52
4	4-F	420	GLU	CA-C	-15.18	1.33	1.52
4	5-F	420	GLU	CA-C	-15.18	1.33	1.52
4	6-F	420	GLU	CA-C	-15.18	1.33	1.52
4	7-F	420	GLU	CA-C	-15.18	1.33	1.52
4	8-F	420	GLU	CA-C	-15.18	1.33	1.52
4	1-R	420	GLU	CA-C	-15.18	1.33	1.52
4	2-R	420	GLU	CA-C	-15.18	1.33	1.52
4	3-R	420	GLU	CA-C	-15.18	1.33	1.52
4	4-R	420	GLU	CA-C	-15.18	1.33	1.52
4	5-R	420	GLU	CA-C	-15.18	1.33	1.52
4	6-R	420	GLU	CA-C	-15.18	1.33	1.52
4	7-R	420	GLU	CA-C	-15.18	1.33	1.52
4	8-R	420	GLU	CA-C	-15.18	1.33	1.52
4	1-L	445	GLY	N-CA	-15.16	1.26	1.45
4	2-L	445	GLY	N-CA	-15.16	1.26	1.45
4	3-L	445	GLY	N-CA	-15.16	1.26	1.45
4	4-L	445	GLY	N-CA	-15.16	1.26	1.45
4	5-L	445	GLY	N-CA	-15.16	1.26	1.45
4	6-L	445	GLY	N-CA	-15.16	1.26	1.45
4	7-L	445	GLY	N-CA	-15.16	1.26	1.45
4	8-L	445	GLY	N-CA	-15.16	1.26	1.45
4	1-F	445	GLY	N-CA	-15.16	1.26	1.45
4	2-F	445	GLY	N-CA	-15.16	1.26	1.45
4	3-F	445	GLY	N-CA	-15.16	1.26	1.45
4	4-F	445	GLY	N-CA	-15.16	1.26	1.45
4	5-F	445	GLY	N-CA	-15.16	1.26	1.45
4	6-F	445	GLY	N-CA	-15.16	1.26	1.45
4	7-F	445	GLY	N-CA	-15.16	1.26	1.45
4	8-F	445	GLY	N-CA	-15.16	1.26	1.45
4	1-F	368	SER	N-CA	15.12	1.66	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	368	SER	N-CA	15.12	1.66	1.46
4	3-F	368	SER	N-CA	15.12	1.66	1.46
4	4-F	368	SER	N-CA	15.12	1.66	1.46
4	5-F	368	SER	N-CA	15.12	1.66	1.46
4	6-F	368	SER	N-CA	15.12	1.66	1.46
4	7-F	368	SER	N-CA	15.12	1.66	1.46
4	8-F	368	SER	N-CA	15.12	1.66	1.46
4	1-X	368	SER	N-CA	15.09	1.66	1.46
4	2-X	368	SER	N-CA	15.09	1.66	1.46
4	3-X	368	SER	N-CA	15.09	1.66	1.46
4	4-X	368	SER	N-CA	15.09	1.66	1.46
4	5-X	368	SER	N-CA	15.09	1.66	1.46
4	6-X	368	SER	N-CA	15.09	1.66	1.46
4	7-X	368	SER	N-CA	15.09	1.66	1.46
4	8-X	368	SER	N-CA	15.09	1.66	1.46
4	1-L	368	SER	N-CA	15.09	1.66	1.46
4	2-L	368	SER	N-CA	15.09	1.66	1.46
4	3-L	368	SER	N-CA	15.09	1.66	1.46
4	4-L	368	SER	N-CA	15.09	1.66	1.46
4	5-L	368	SER	N-CA	15.09	1.66	1.46
4	6-L	368	SER	N-CA	15.09	1.66	1.46
4	7-L	368	SER	N-CA	15.09	1.66	1.46
4	8-L	368	SER	N-CA	15.09	1.66	1.46
4	1-R	368	SER	N-CA	15.08	1.66	1.46
4	2-R	368	SER	N-CA	15.08	1.66	1.46
4	3-R	368	SER	N-CA	15.08	1.66	1.46
4	4-R	368	SER	N-CA	15.08	1.66	1.46
4	5-R	368	SER	N-CA	15.08	1.66	1.46
4	6-R	368	SER	N-CA	15.08	1.66	1.46
4	7-R	368	SER	N-CA	15.08	1.66	1.46
4	8-R	368	SER	N-CA	15.08	1.66	1.46
5	1-M	327	ARG	C-N	15.07	1.56	1.33
5	2-M	327	ARG	C-N	15.07	1.56	1.33
5	3-M	327	ARG	C-N	15.07	1.56	1.33
5	4-M	327	ARG	C-N	15.07	1.56	1.33
5	5-M	327	ARG	C-N	15.07	1.56	1.33
5	6-M	327	ARG	C-N	15.07	1.56	1.33
5	7-M	327	ARG	C-N	15.07	1.56	1.33
5	8-M	327	ARG	C-N	15.07	1.56	1.33
5	1-G	327	ARG	C-N	15.07	1.56	1.33
5	2-G	327	ARG	C-N	15.07	1.56	1.33
5	3-G	327	ARG	C-N	15.07	1.56	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-G	327	ARG	C-N	15.07	1.56	1.33
5	5-G	327	ARG	C-N	15.07	1.56	1.33
5	6-G	327	ARG	C-N	15.07	1.56	1.33
5	7-G	327	ARG	C-N	15.07	1.56	1.33
5	8-G	327	ARG	C-N	15.07	1.56	1.33
4	1-F	452	ARG	C-N	15.05	1.54	1.33
6	1-H	388	ARG	N-CA	-15.05	1.28	1.46
5	1-Y	327	ARG	C-N	15.04	1.56	1.33
4	2-F	452	ARG	C-N	15.05	1.54	1.33
6	2-H	388	ARG	N-CA	-15.05	1.28	1.46
5	2-Y	327	ARG	C-N	15.04	1.56	1.33
4	3-F	452	ARG	C-N	15.05	1.54	1.33
6	3-H	388	ARG	N-CA	-15.05	1.28	1.46
5	3-Y	327	ARG	C-N	15.04	1.56	1.33
4	4-F	452	ARG	C-N	15.05	1.54	1.33
6	4-H	388	ARG	N-CA	-15.05	1.28	1.46
5	4-Y	327	ARG	C-N	15.04	1.56	1.33
4	5-F	452	ARG	C-N	15.05	1.54	1.33
6	5-H	388	ARG	N-CA	-15.05	1.28	1.46
5	5-Y	327	ARG	C-N	15.04	1.56	1.33
4	6-F	452	ARG	C-N	15.05	1.54	1.33
6	6-H	388	ARG	N-CA	-15.05	1.28	1.46
5	6-Y	327	ARG	C-N	15.04	1.56	1.33
4	7-F	452	ARG	C-N	15.05	1.54	1.33
6	7-H	388	ARG	N-CA	-15.05	1.28	1.46
5	7-Y	327	ARG	C-N	15.04	1.56	1.33
4	8-F	452	ARG	C-N	15.05	1.54	1.33
6	8-H	388	ARG	N-CA	-15.05	1.28	1.46
5	8-Y	327	ARG	C-N	15.04	1.56	1.33
4	1-R	452	ARG	C-N	15.04	1.54	1.33
4	1-X	452	ARG	C-N	15.04	1.54	1.33
4	2-R	452	ARG	C-N	15.04	1.54	1.33
4	2-X	452	ARG	C-N	15.04	1.54	1.33
4	3-R	452	ARG	C-N	15.04	1.54	1.33
4	3-X	452	ARG	C-N	15.04	1.54	1.33
4	4-R	452	ARG	C-N	15.04	1.54	1.33
4	4-X	452	ARG	C-N	15.04	1.54	1.33
4	5-R	452	ARG	C-N	15.04	1.54	1.33
4	5-X	452	ARG	C-N	15.04	1.54	1.33
4	6-R	452	ARG	C-N	15.04	1.54	1.33
4	6-X	452	ARG	C-N	15.04	1.54	1.33
4	7-R	452	ARG	C-N	15.04	1.54	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-X	452	ARG	C-N	15.04	1.54	1.33
4	8-R	452	ARG	C-N	15.04	1.54	1.33
4	8-X	452	ARG	C-N	15.04	1.54	1.33
5	1-S	327	ARG	C-N	15.02	1.56	1.33
5	2-S	327	ARG	C-N	15.02	1.56	1.33
5	3-S	327	ARG	C-N	15.02	1.56	1.33
5	4-S	327	ARG	C-N	15.02	1.56	1.33
5	5-S	327	ARG	C-N	15.02	1.56	1.33
5	6-S	327	ARG	C-N	15.02	1.56	1.33
5	7-S	327	ARG	C-N	15.02	1.56	1.33
5	8-S	327	ARG	C-N	15.02	1.56	1.33
6	1-Z	335	SER	CA-C	-15.00	1.33	1.52
6	2-Z	335	SER	CA-C	-15.00	1.33	1.52
6	3-Z	335	SER	CA-C	-15.00	1.33	1.52
6	4-Z	335	SER	CA-C	-15.00	1.33	1.52
6	5-Z	335	SER	CA-C	-15.00	1.33	1.52
6	6-Z	335	SER	CA-C	-15.00	1.33	1.52
6	7-Z	335	SER	CA-C	-15.00	1.33	1.52
6	8-Z	335	SER	CA-C	-15.00	1.33	1.52
4	1-L	452	ARG	C-N	14.99	1.54	1.33
4	2-L	452	ARG	C-N	14.99	1.54	1.33
4	3-L	452	ARG	C-N	14.99	1.54	1.33
4	4-L	452	ARG	C-N	14.99	1.54	1.33
4	5-L	452	ARG	C-N	14.99	1.54	1.33
4	6-L	452	ARG	C-N	14.99	1.54	1.33
4	7-L	452	ARG	C-N	14.99	1.54	1.33
4	8-L	452	ARG	C-N	14.99	1.54	1.33
6	1-T	335	SER	CA-C	-14.97	1.33	1.52
6	2-T	335	SER	CA-C	-14.97	1.33	1.52
6	3-T	335	SER	CA-C	-14.97	1.33	1.52
6	4-T	335	SER	CA-C	-14.97	1.33	1.52
6	5-T	335	SER	CA-C	-14.97	1.33	1.52
6	6-T	335	SER	CA-C	-14.97	1.33	1.52
6	7-T	335	SER	CA-C	-14.97	1.33	1.52
6	8-T	335	SER	CA-C	-14.97	1.33	1.52
6	1-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	2-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	3-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	4-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	5-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	6-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	7-Z	388	ARG	N-CA	-14.96	1.28	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	388	ARG	N-CA	-14.96	1.28	1.46
6	1-T	388	ARG	N-CA	-14.96	1.28	1.46
6	2-T	388	ARG	N-CA	-14.96	1.28	1.46
6	3-T	388	ARG	N-CA	-14.96	1.28	1.46
6	4-T	388	ARG	N-CA	-14.96	1.28	1.46
6	5-T	388	ARG	N-CA	-14.96	1.28	1.46
6	6-T	388	ARG	N-CA	-14.96	1.28	1.46
6	7-T	388	ARG	N-CA	-14.96	1.28	1.46
6	8-T	388	ARG	N-CA	-14.96	1.28	1.46
6	1-H	335	SER	CA-C	-14.96	1.33	1.52
6	1-N	335	SER	CA-C	-14.96	1.33	1.52
6	2-H	335	SER	CA-C	-14.96	1.33	1.52
6	2-N	335	SER	CA-C	-14.96	1.33	1.52
6	3-H	335	SER	CA-C	-14.96	1.33	1.52
6	3-N	335	SER	CA-C	-14.96	1.33	1.52
6	4-H	335	SER	CA-C	-14.96	1.33	1.52
6	4-N	335	SER	CA-C	-14.96	1.33	1.52
6	5-H	335	SER	CA-C	-14.96	1.33	1.52
6	5-N	335	SER	CA-C	-14.96	1.33	1.52
6	6-H	335	SER	CA-C	-14.96	1.33	1.52
6	6-N	335	SER	CA-C	-14.96	1.33	1.52
6	7-H	335	SER	CA-C	-14.96	1.33	1.52
6	7-N	335	SER	CA-C	-14.96	1.33	1.52
6	8-H	335	SER	CA-C	-14.96	1.33	1.52
6	8-N	335	SER	CA-C	-14.96	1.33	1.52
6	1-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	2-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	3-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	4-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	5-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	6-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	7-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	8-Z	412	GLU	CA-C	-14.94	1.35	1.53
6	1-N	388	ARG	N-CA	-14.93	1.28	1.46
6	2-N	388	ARG	N-CA	-14.93	1.28	1.46
6	3-N	388	ARG	N-CA	-14.93	1.28	1.46
6	4-N	388	ARG	N-CA	-14.93	1.28	1.46
6	5-N	388	ARG	N-CA	-14.93	1.28	1.46
6	6-N	388	ARG	N-CA	-14.93	1.28	1.46
6	7-N	388	ARG	N-CA	-14.93	1.28	1.46
6	8-N	388	ARG	N-CA	-14.93	1.28	1.46
6	1-T	412	GLU	CA-C	-14.91	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	412	GLU	CA-C	-14.91	1.35	1.53
6	3-T	412	GLU	CA-C	-14.91	1.35	1.53
6	4-T	412	GLU	CA-C	-14.91	1.35	1.53
6	5-T	412	GLU	CA-C	-14.91	1.35	1.53
6	6-T	412	GLU	CA-C	-14.91	1.35	1.53
6	7-T	412	GLU	CA-C	-14.91	1.35	1.53
6	8-T	412	GLU	CA-C	-14.91	1.35	1.53
4	1-F	444	PHE	CA-C	14.90	1.72	1.52
4	2-F	444	PHE	CA-C	14.90	1.72	1.52
4	3-F	444	PHE	CA-C	14.90	1.72	1.52
4	4-F	444	PHE	CA-C	14.90	1.72	1.52
4	5-F	444	PHE	CA-C	14.90	1.72	1.52
4	6-F	444	PHE	CA-C	14.90	1.72	1.52
4	7-F	444	PHE	CA-C	14.90	1.72	1.52
4	8-F	444	PHE	CA-C	14.90	1.72	1.52
6	1-N	412	GLU	CA-C	-14.90	1.35	1.53
6	2-N	412	GLU	CA-C	-14.90	1.35	1.53
6	3-N	412	GLU	CA-C	-14.90	1.35	1.53
6	4-N	412	GLU	CA-C	-14.90	1.35	1.53
6	5-N	412	GLU	CA-C	-14.90	1.35	1.53
6	6-N	412	GLU	CA-C	-14.90	1.35	1.53
6	7-N	412	GLU	CA-C	-14.90	1.35	1.53
6	8-N	412	GLU	CA-C	-14.90	1.35	1.53
6	1-H	412	GLU	CA-C	-14.89	1.35	1.53
6	2-H	412	GLU	CA-C	-14.89	1.35	1.53
6	3-H	412	GLU	CA-C	-14.89	1.35	1.53
6	4-H	412	GLU	CA-C	-14.89	1.35	1.53
6	5-H	412	GLU	CA-C	-14.89	1.35	1.53
6	6-H	412	GLU	CA-C	-14.89	1.35	1.53
6	7-H	412	GLU	CA-C	-14.89	1.35	1.53
6	8-H	412	GLU	CA-C	-14.89	1.35	1.53
4	1-X	444	PHE	CA-C	14.88	1.72	1.52
4	2-X	444	PHE	CA-C	14.88	1.72	1.52
4	3-X	444	PHE	CA-C	14.88	1.72	1.52
4	4-X	444	PHE	CA-C	14.88	1.72	1.52
4	5-X	444	PHE	CA-C	14.88	1.72	1.52
4	6-X	444	PHE	CA-C	14.88	1.72	1.52
4	7-X	444	PHE	CA-C	14.88	1.72	1.52
4	8-X	444	PHE	CA-C	14.88	1.72	1.52
4	1-R	444	PHE	CA-C	14.82	1.72	1.52
4	2-R	444	PHE	CA-C	14.82	1.72	1.52
4	3-R	444	PHE	CA-C	14.82	1.72	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	444	PHE	CA-C	14.82	1.72	1.52
4	5-R	444	PHE	CA-C	14.82	1.72	1.52
4	6-R	444	PHE	CA-C	14.82	1.72	1.52
4	7-R	444	PHE	CA-C	14.82	1.72	1.52
4	8-R	444	PHE	CA-C	14.82	1.72	1.52
4	1-L	444	PHE	CA-C	14.81	1.72	1.52
4	2-L	444	PHE	CA-C	14.81	1.72	1.52
4	3-L	444	PHE	CA-C	14.81	1.72	1.52
4	4-L	444	PHE	CA-C	14.81	1.72	1.52
4	5-L	444	PHE	CA-C	14.81	1.72	1.52
4	6-L	444	PHE	CA-C	14.81	1.72	1.52
4	7-L	444	PHE	CA-C	14.81	1.72	1.52
4	8-L	444	PHE	CA-C	14.81	1.72	1.52
3	1-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	2-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	3-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	4-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	5-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	6-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	7-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	8-V	1511	GLN	CA-C	-14.80	1.32	1.52
3	1-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	2-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	3-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	4-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	5-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	6-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	7-J	1511	GLN	CA-C	-14.80	1.32	1.52
3	8-J	1511	GLN	CA-C	-14.80	1.32	1.52
4	1-F	349	THR	CA-C	-14.80	1.33	1.52
4	2-F	349	THR	CA-C	-14.80	1.33	1.52
4	3-F	349	THR	CA-C	-14.80	1.33	1.52
4	4-F	349	THR	CA-C	-14.80	1.33	1.52
4	5-F	349	THR	CA-C	-14.80	1.33	1.52
4	6-F	349	THR	CA-C	-14.80	1.33	1.52
4	7-F	349	THR	CA-C	-14.80	1.33	1.52
4	8-F	349	THR	CA-C	-14.80	1.33	1.52
3	1-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	2-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	3-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	4-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	5-D	1511	GLN	CA-C	-14.78	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	7-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	8-D	1511	GLN	CA-C	-14.78	1.32	1.52
3	1-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	2-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	3-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	4-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	5-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	6-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	7-P	1511	GLN	CA-C	-14.77	1.32	1.52
3	8-P	1511	GLN	CA-C	-14.77	1.32	1.52
4	1-L	349	THR	CA-C	-14.76	1.33	1.52
4	2-L	349	THR	CA-C	-14.76	1.33	1.52
4	3-L	349	THR	CA-C	-14.76	1.33	1.52
4	4-L	349	THR	CA-C	-14.76	1.33	1.52
4	5-L	349	THR	CA-C	-14.76	1.33	1.52
4	6-L	349	THR	CA-C	-14.76	1.33	1.52
4	7-L	349	THR	CA-C	-14.76	1.33	1.52
4	8-L	349	THR	CA-C	-14.76	1.33	1.52
4	1-X	349	THR	CA-C	-14.76	1.33	1.52
4	2-X	349	THR	CA-C	-14.76	1.33	1.52
4	3-X	349	THR	CA-C	-14.76	1.33	1.52
4	4-X	349	THR	CA-C	-14.76	1.33	1.52
4	5-X	349	THR	CA-C	-14.76	1.33	1.52
4	6-X	349	THR	CA-C	-14.76	1.33	1.52
4	7-X	349	THR	CA-C	-14.76	1.33	1.52
4	8-X	349	THR	CA-C	-14.76	1.33	1.52
4	1-R	349	THR	CA-C	-14.72	1.33	1.52
4	2-R	349	THR	CA-C	-14.72	1.33	1.52
4	3-R	349	THR	CA-C	-14.72	1.33	1.52
4	4-R	349	THR	CA-C	-14.72	1.33	1.52
4	5-R	349	THR	CA-C	-14.72	1.33	1.52
4	6-R	349	THR	CA-C	-14.72	1.33	1.52
4	7-R	349	THR	CA-C	-14.72	1.33	1.52
4	8-R	349	THR	CA-C	-14.72	1.33	1.52
6	1-Z	414	VAL	CA-C	14.63	1.71	1.52
6	2-Z	414	VAL	CA-C	14.63	1.71	1.52
6	3-Z	414	VAL	CA-C	14.63	1.71	1.52
6	4-Z	414	VAL	CA-C	14.63	1.71	1.52
6	5-Z	414	VAL	CA-C	14.63	1.71	1.52
6	6-Z	414	VAL	CA-C	14.63	1.71	1.52
6	7-Z	414	VAL	CA-C	14.63	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	414	VAL	CA-C	14.63	1.71	1.52
6	1-N	414	VAL	CA-C	14.62	1.71	1.52
6	2-N	414	VAL	CA-C	14.62	1.71	1.52
6	3-N	414	VAL	CA-C	14.62	1.71	1.52
6	4-N	414	VAL	CA-C	14.62	1.71	1.52
6	5-N	414	VAL	CA-C	14.62	1.71	1.52
6	6-N	414	VAL	CA-C	14.62	1.71	1.52
6	7-N	414	VAL	CA-C	14.62	1.71	1.52
6	8-N	414	VAL	CA-C	14.62	1.71	1.52
4	1-X	331	LYS	CA-C	-14.62	1.32	1.52
4	2-X	331	LYS	CA-C	-14.62	1.32	1.52
4	3-X	331	LYS	CA-C	-14.62	1.32	1.52
4	4-X	331	LYS	CA-C	-14.62	1.32	1.52
4	5-X	331	LYS	CA-C	-14.62	1.32	1.52
4	6-X	331	LYS	CA-C	-14.62	1.32	1.52
4	7-X	331	LYS	CA-C	-14.62	1.32	1.52
4	8-X	331	LYS	CA-C	-14.62	1.32	1.52
4	1-F	331	LYS	CA-C	-14.62	1.32	1.52
4	2-F	331	LYS	CA-C	-14.62	1.32	1.52
4	3-F	331	LYS	CA-C	-14.62	1.32	1.52
4	4-F	331	LYS	CA-C	-14.62	1.32	1.52
4	5-F	331	LYS	CA-C	-14.62	1.32	1.52
4	6-F	331	LYS	CA-C	-14.62	1.32	1.52
4	7-F	331	LYS	CA-C	-14.62	1.32	1.52
4	8-F	331	LYS	CA-C	-14.62	1.32	1.52
4	1-R	331	LYS	CA-C	-14.61	1.32	1.52
4	2-R	331	LYS	CA-C	-14.61	1.32	1.52
4	3-R	331	LYS	CA-C	-14.61	1.32	1.52
4	4-R	331	LYS	CA-C	-14.61	1.32	1.52
4	5-R	331	LYS	CA-C	-14.61	1.32	1.52
4	6-R	331	LYS	CA-C	-14.61	1.32	1.52
4	7-R	331	LYS	CA-C	-14.61	1.32	1.52
4	8-R	331	LYS	CA-C	-14.61	1.32	1.52
6	1-H	414	VAL	CA-C	14.59	1.71	1.52
6	1-T	414	VAL	CA-C	14.59	1.71	1.52
6	2-H	414	VAL	CA-C	14.59	1.71	1.52
6	2-T	414	VAL	CA-C	14.59	1.71	1.52
6	3-H	414	VAL	CA-C	14.59	1.71	1.52
6	3-T	414	VAL	CA-C	14.59	1.71	1.52
6	4-H	414	VAL	CA-C	14.59	1.71	1.52
6	4-T	414	VAL	CA-C	14.59	1.71	1.52
6	5-H	414	VAL	CA-C	14.59	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	5-T	414	VAL	CA-C	14.59	1.71	1.52
6	6-H	414	VAL	CA-C	14.59	1.71	1.52
6	6-T	414	VAL	CA-C	14.59	1.71	1.52
6	7-H	414	VAL	CA-C	14.59	1.71	1.52
6	7-T	414	VAL	CA-C	14.59	1.71	1.52
6	8-H	414	VAL	CA-C	14.59	1.71	1.52
6	8-T	414	VAL	CA-C	14.59	1.71	1.52
4	1-R	435	MET	CA-C	14.56	1.71	1.52
4	2-R	435	MET	CA-C	14.56	1.71	1.52
4	3-R	435	MET	CA-C	14.56	1.71	1.52
4	4-R	435	MET	CA-C	14.56	1.71	1.52
4	5-R	435	MET	CA-C	14.56	1.71	1.52
4	6-R	435	MET	CA-C	14.56	1.71	1.52
4	7-R	435	MET	CA-C	14.56	1.71	1.52
4	8-R	435	MET	CA-C	14.56	1.71	1.52
4	1-L	435	MET	CA-C	14.54	1.71	1.52
4	2-L	435	MET	CA-C	14.54	1.71	1.52
4	3-L	435	MET	CA-C	14.54	1.71	1.52
4	4-L	435	MET	CA-C	14.54	1.71	1.52
4	5-L	435	MET	CA-C	14.54	1.71	1.52
4	6-L	435	MET	CA-C	14.54	1.71	1.52
4	7-L	435	MET	CA-C	14.54	1.71	1.52
4	8-L	435	MET	CA-C	14.54	1.71	1.52
6	1-N	394	ASP	CA-C	-14.53	1.33	1.52
6	2-N	394	ASP	CA-C	-14.53	1.33	1.52
6	3-N	394	ASP	CA-C	-14.53	1.33	1.52
6	4-N	394	ASP	CA-C	-14.53	1.33	1.52
6	5-N	394	ASP	CA-C	-14.53	1.33	1.52
6	6-N	394	ASP	CA-C	-14.53	1.33	1.52
6	7-N	394	ASP	CA-C	-14.53	1.33	1.52
6	8-N	394	ASP	CA-C	-14.53	1.33	1.52
4	1-L	331	LYS	CA-C	-14.53	1.32	1.52
4	2-L	331	LYS	CA-C	-14.53	1.32	1.52
4	3-L	331	LYS	CA-C	-14.53	1.32	1.52
4	4-L	331	LYS	CA-C	-14.53	1.32	1.52
4	5-L	331	LYS	CA-C	-14.53	1.32	1.52
4	6-L	331	LYS	CA-C	-14.53	1.32	1.52
4	7-L	331	LYS	CA-C	-14.53	1.32	1.52
4	8-L	331	LYS	CA-C	-14.53	1.32	1.52
6	1-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	2-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	3-H	497	ARG	CA-CB	-14.52	1.28	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	5-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	6-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	7-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	8-H	497	ARG	CA-CB	-14.52	1.28	1.53
6	1-H	394	ASP	CA-C	-14.52	1.33	1.52
6	2-H	394	ASP	CA-C	-14.52	1.33	1.52
6	3-H	394	ASP	CA-C	-14.52	1.33	1.52
6	4-H	394	ASP	CA-C	-14.52	1.33	1.52
6	5-H	394	ASP	CA-C	-14.52	1.33	1.52
6	6-H	394	ASP	CA-C	-14.52	1.33	1.52
6	7-H	394	ASP	CA-C	-14.52	1.33	1.52
6	8-H	394	ASP	CA-C	-14.52	1.33	1.52
4	1-X	435	MET	CA-C	14.52	1.71	1.52
4	2-X	435	MET	CA-C	14.52	1.71	1.52
4	3-X	435	MET	CA-C	14.52	1.71	1.52
4	4-X	435	MET	CA-C	14.52	1.71	1.52
4	5-X	435	MET	CA-C	14.52	1.71	1.52
4	6-X	435	MET	CA-C	14.52	1.71	1.52
4	7-X	435	MET	CA-C	14.52	1.71	1.52
4	8-X	435	MET	CA-C	14.52	1.71	1.52
6	1-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	2-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	3-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	4-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	5-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	6-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	7-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	8-Z	394	ASP	CA-C	-14.52	1.33	1.52
6	1-T	394	ASP	CA-C	-14.50	1.33	1.52
6	1-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	2-T	394	ASP	CA-C	-14.50	1.33	1.52
6	2-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	3-T	394	ASP	CA-C	-14.50	1.33	1.52
6	3-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	4-T	394	ASP	CA-C	-14.50	1.33	1.52
6	4-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	5-T	394	ASP	CA-C	-14.50	1.33	1.52
6	5-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	6-T	394	ASP	CA-C	-14.50	1.33	1.52
6	6-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	7-T	394	ASP	CA-C	-14.50	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	7-T	497	ARG	CA-CB	-14.50	1.28	1.53
6	8-T	394	ASP	CA-C	-14.50	1.33	1.52
6	8-T	497	ARG	CA-CB	-14.50	1.28	1.53
4	1-F	435	MET	CA-C	14.49	1.71	1.52
4	2-F	435	MET	CA-C	14.49	1.71	1.52
4	3-F	435	MET	CA-C	14.49	1.71	1.52
4	4-F	435	MET	CA-C	14.49	1.71	1.52
4	5-F	435	MET	CA-C	14.49	1.71	1.52
4	6-F	435	MET	CA-C	14.49	1.71	1.52
4	7-F	435	MET	CA-C	14.49	1.71	1.52
4	8-F	435	MET	CA-C	14.49	1.71	1.52
6	1-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	2-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	3-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	4-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	5-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	6-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	7-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	8-Z	497	ARG	CA-CB	-14.48	1.28	1.53
6	1-H	490	GLN	CA-CB	14.48	1.75	1.53
6	2-H	490	GLN	CA-CB	14.48	1.75	1.53
6	3-H	490	GLN	CA-CB	14.48	1.75	1.53
6	4-H	490	GLN	CA-CB	14.48	1.75	1.53
6	5-H	490	GLN	CA-CB	14.48	1.75	1.53
6	6-H	490	GLN	CA-CB	14.48	1.75	1.53
6	7-H	490	GLN	CA-CB	14.48	1.75	1.53
6	8-H	490	GLN	CA-CB	14.48	1.75	1.53
6	1-N	490	GLN	CA-CB	14.47	1.75	1.53
6	2-N	490	GLN	CA-CB	14.47	1.75	1.53
6	3-N	490	GLN	CA-CB	14.47	1.75	1.53
6	4-N	490	GLN	CA-CB	14.47	1.75	1.53
6	5-N	490	GLN	CA-CB	14.47	1.75	1.53
6	6-N	490	GLN	CA-CB	14.47	1.75	1.53
6	7-N	490	GLN	CA-CB	14.47	1.75	1.53
6	8-N	490	GLN	CA-CB	14.47	1.75	1.53
6	1-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	2-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	3-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	4-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	5-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	6-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	7-Z	490	GLN	CA-CB	14.47	1.75	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	490	GLN	CA-CB	14.47	1.75	1.53
6	1-T	490	GLN	CA-CB	14.46	1.75	1.53
6	2-T	490	GLN	CA-CB	14.46	1.75	1.53
6	3-T	490	GLN	CA-CB	14.46	1.75	1.53
6	4-T	490	GLN	CA-CB	14.46	1.75	1.53
6	5-T	490	GLN	CA-CB	14.46	1.75	1.53
6	6-T	490	GLN	CA-CB	14.46	1.75	1.53
6	7-T	490	GLN	CA-CB	14.46	1.75	1.53
6	8-T	490	GLN	CA-CB	14.46	1.75	1.53
6	1-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	2-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	3-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	4-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	5-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	6-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	7-N	497	ARG	CA-CB	-14.45	1.29	1.53
6	8-N	497	ARG	CA-CB	-14.45	1.29	1.53
5	1-G	328	THR	CA-CB	14.33	1.74	1.54
5	1-S	328	THR	CA-CB	14.33	1.74	1.54
5	2-G	328	THR	CA-CB	14.33	1.74	1.54
5	2-S	328	THR	CA-CB	14.33	1.74	1.54
5	3-G	328	THR	CA-CB	14.33	1.74	1.54
5	3-S	328	THR	CA-CB	14.33	1.74	1.54
5	4-G	328	THR	CA-CB	14.33	1.74	1.54
5	4-S	328	THR	CA-CB	14.33	1.74	1.54
5	5-G	328	THR	CA-CB	14.33	1.74	1.54
5	5-S	328	THR	CA-CB	14.33	1.74	1.54
5	6-G	328	THR	CA-CB	14.33	1.74	1.54
5	6-S	328	THR	CA-CB	14.33	1.74	1.54
5	7-G	328	THR	CA-CB	14.33	1.74	1.54
5	7-S	328	THR	CA-CB	14.33	1.74	1.54
5	8-G	328	THR	CA-CB	14.33	1.74	1.54
5	8-S	328	THR	CA-CB	14.33	1.74	1.54
5	1-M	328	THR	CA-CB	14.32	1.74	1.54
5	2-M	328	THR	CA-CB	14.32	1.74	1.54
5	3-M	328	THR	CA-CB	14.32	1.74	1.54
5	4-M	328	THR	CA-CB	14.32	1.74	1.54
5	5-M	328	THR	CA-CB	14.32	1.74	1.54
5	6-M	328	THR	CA-CB	14.32	1.74	1.54
5	7-M	328	THR	CA-CB	14.32	1.74	1.54
5	8-M	328	THR	CA-CB	14.32	1.74	1.54
3	1-D	1542	PRO	N-CA	-14.30	1.29	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-Y	328	THR	CA-CB	14.30	1.73	1.54
3	2-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	2-Y	328	THR	CA-CB	14.30	1.73	1.54
3	3-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	3-Y	328	THR	CA-CB	14.30	1.73	1.54
3	4-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	4-Y	328	THR	CA-CB	14.30	1.73	1.54
3	5-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	5-Y	328	THR	CA-CB	14.30	1.73	1.54
3	6-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	6-Y	328	THR	CA-CB	14.30	1.73	1.54
3	7-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	7-Y	328	THR	CA-CB	14.30	1.73	1.54
3	8-D	1542	PRO	N-CA	-14.30	1.29	1.47
5	8-Y	328	THR	CA-CB	14.30	1.73	1.54
3	1-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	2-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	3-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	4-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	5-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	6-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	7-V	1542	PRO	N-CA	-14.29	1.29	1.47
3	8-V	1542	PRO	N-CA	-14.29	1.29	1.47
4	1-R	454	TYR	CA-CB	14.26	1.77	1.53
4	2-R	454	TYR	CA-CB	14.26	1.77	1.53
4	3-R	454	TYR	CA-CB	14.26	1.77	1.53
4	4-R	454	TYR	CA-CB	14.26	1.77	1.53
4	5-R	454	TYR	CA-CB	14.26	1.77	1.53
4	6-R	454	TYR	CA-CB	14.26	1.77	1.53
4	7-R	454	TYR	CA-CB	14.26	1.77	1.53
4	8-R	454	TYR	CA-CB	14.26	1.77	1.53
3	1-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	2-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	3-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	4-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	5-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	6-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	7-J	1542	PRO	N-CA	-14.25	1.29	1.47
3	8-J	1542	PRO	N-CA	-14.25	1.29	1.47
4	1-R	451	GLU	CA-CB	14.24	1.77	1.53
4	1-X	454	TYR	CA-CB	14.24	1.77	1.53
4	2-R	451	GLU	CA-CB	14.24	1.77	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	454	TYR	CA-CB	14.24	1.77	1.53
4	3-R	451	GLU	CA-CB	14.24	1.77	1.53
4	3-X	454	TYR	CA-CB	14.24	1.77	1.53
4	4-R	451	GLU	CA-CB	14.24	1.77	1.53
4	4-X	454	TYR	CA-CB	14.24	1.77	1.53
4	5-R	451	GLU	CA-CB	14.24	1.77	1.53
4	5-X	454	TYR	CA-CB	14.24	1.77	1.53
4	6-R	451	GLU	CA-CB	14.24	1.77	1.53
4	6-X	454	TYR	CA-CB	14.24	1.77	1.53
4	7-R	451	GLU	CA-CB	14.24	1.77	1.53
4	7-X	454	TYR	CA-CB	14.24	1.77	1.53
4	8-R	451	GLU	CA-CB	14.24	1.77	1.53
4	8-X	454	TYR	CA-CB	14.24	1.77	1.53
3	1-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	2-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	3-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	4-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	5-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	6-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	7-P	1542	PRO	N-CA	-14.24	1.29	1.47
3	8-P	1542	PRO	N-CA	-14.24	1.29	1.47
6	1-T	411	GLU	N-CA	14.23	1.64	1.46
6	2-T	411	GLU	N-CA	14.23	1.64	1.46
6	3-T	411	GLU	N-CA	14.23	1.64	1.46
6	4-T	411	GLU	N-CA	14.23	1.64	1.46
6	5-T	411	GLU	N-CA	14.23	1.64	1.46
6	6-T	411	GLU	N-CA	14.23	1.64	1.46
6	7-T	411	GLU	N-CA	14.23	1.64	1.46
6	8-T	411	GLU	N-CA	14.23	1.64	1.46
4	1-L	454	TYR	CA-CB	14.23	1.77	1.53
3	1-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	2-L	454	TYR	CA-CB	14.23	1.77	1.53
3	2-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	3-L	454	TYR	CA-CB	14.23	1.77	1.53
3	3-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	4-L	454	TYR	CA-CB	14.23	1.77	1.53
3	4-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	5-L	454	TYR	CA-CB	14.23	1.77	1.53
3	5-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	6-L	454	TYR	CA-CB	14.23	1.77	1.53
3	6-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	7-L	454	TYR	CA-CB	14.23	1.77	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	8-L	454	TYR	CA-CB	14.23	1.77	1.53
3	8-P	1521	TYR	N-CA	-14.23	1.28	1.46
4	1-F	454	TYR	CA-CB	14.22	1.77	1.53
4	2-F	454	TYR	CA-CB	14.22	1.77	1.53
4	3-F	454	TYR	CA-CB	14.22	1.77	1.53
4	4-F	454	TYR	CA-CB	14.22	1.77	1.53
4	5-F	454	TYR	CA-CB	14.22	1.77	1.53
4	6-F	454	TYR	CA-CB	14.22	1.77	1.53
4	7-F	454	TYR	CA-CB	14.22	1.77	1.53
4	8-F	454	TYR	CA-CB	14.22	1.77	1.53
6	1-N	411	GLU	N-CA	14.22	1.64	1.46
6	2-N	411	GLU	N-CA	14.22	1.64	1.46
6	3-N	411	GLU	N-CA	14.22	1.64	1.46
6	4-N	411	GLU	N-CA	14.22	1.64	1.46
6	5-N	411	GLU	N-CA	14.22	1.64	1.46
6	6-N	411	GLU	N-CA	14.22	1.64	1.46
6	7-N	411	GLU	N-CA	14.22	1.64	1.46
6	8-N	411	GLU	N-CA	14.22	1.64	1.46
3	1-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	2-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	3-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	4-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	5-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	6-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	7-V	1521	TYR	N-CA	-14.21	1.28	1.46
3	8-V	1521	TYR	N-CA	-14.21	1.28	1.46
4	1-L	451	GLU	CA-CB	14.21	1.77	1.53
4	2-L	451	GLU	CA-CB	14.21	1.77	1.53
4	3-L	451	GLU	CA-CB	14.21	1.77	1.53
4	4-L	451	GLU	CA-CB	14.21	1.77	1.53
4	5-L	451	GLU	CA-CB	14.21	1.77	1.53
4	6-L	451	GLU	CA-CB	14.21	1.77	1.53
4	7-L	451	GLU	CA-CB	14.21	1.77	1.53
4	8-L	451	GLU	CA-CB	14.21	1.77	1.53
4	1-F	451	GLU	CA-CB	14.19	1.77	1.53
4	2-F	451	GLU	CA-CB	14.19	1.77	1.53
4	3-F	451	GLU	CA-CB	14.19	1.77	1.53
4	4-F	451	GLU	CA-CB	14.19	1.77	1.53
4	5-F	451	GLU	CA-CB	14.19	1.77	1.53
4	6-F	451	GLU	CA-CB	14.19	1.77	1.53
4	7-F	451	GLU	CA-CB	14.19	1.77	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	451	GLU	CA-CB	14.19	1.77	1.53
6	1-H	411	GLU	N-CA	14.18	1.64	1.46
6	1-Z	411	GLU	N-CA	14.18	1.64	1.46
6	2-H	411	GLU	N-CA	14.18	1.64	1.46
6	2-Z	411	GLU	N-CA	14.18	1.64	1.46
6	3-H	411	GLU	N-CA	14.18	1.64	1.46
6	3-Z	411	GLU	N-CA	14.18	1.64	1.46
6	4-H	411	GLU	N-CA	14.18	1.64	1.46
6	4-Z	411	GLU	N-CA	14.18	1.64	1.46
6	5-H	411	GLU	N-CA	14.18	1.64	1.46
6	5-Z	411	GLU	N-CA	14.18	1.64	1.46
6	6-H	411	GLU	N-CA	14.18	1.64	1.46
6	6-Z	411	GLU	N-CA	14.18	1.64	1.46
6	7-H	411	GLU	N-CA	14.18	1.64	1.46
6	7-Z	411	GLU	N-CA	14.18	1.64	1.46
6	8-H	411	GLU	N-CA	14.18	1.64	1.46
6	8-Z	411	GLU	N-CA	14.18	1.64	1.46
3	1-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	2-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	3-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	4-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	5-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	6-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	7-J	1521	TYR	N-CA	-14.17	1.28	1.46
3	8-J	1521	TYR	N-CA	-14.17	1.28	1.46
4	1-X	451	GLU	CA-CB	14.15	1.77	1.53
4	2-X	451	GLU	CA-CB	14.15	1.77	1.53
4	3-X	451	GLU	CA-CB	14.15	1.77	1.53
4	4-X	451	GLU	CA-CB	14.15	1.77	1.53
4	5-X	451	GLU	CA-CB	14.15	1.77	1.53
4	6-X	451	GLU	CA-CB	14.15	1.77	1.53
4	7-X	451	GLU	CA-CB	14.15	1.77	1.53
4	8-X	451	GLU	CA-CB	14.15	1.77	1.53
3	1-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	2-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	3-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	4-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	5-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	6-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	7-D	1521	TYR	N-CA	-14.14	1.28	1.46
3	8-D	1521	TYR	N-CA	-14.14	1.28	1.46
4	1-X	403	ILE	CA-CB	-14.13	1.35	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	3-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	4-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	5-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	6-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	7-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	8-X	403	ILE	CA-CB	-14.13	1.35	1.54
4	1-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	1-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	2-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	2-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	3-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	3-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	4-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	4-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	5-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	5-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	6-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	6-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	7-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	7-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	8-L	403	ILE	CA-CB	-14.12	1.35	1.54
4	8-R	403	ILE	CA-CB	-14.12	1.35	1.54
4	1-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	2-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	3-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	4-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	5-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	6-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	7-F	403	ILE	CA-CB	-14.11	1.35	1.54
4	8-F	403	ILE	CA-CB	-14.11	1.35	1.54
6	1-H	356	THR	N-CA	-14.04	1.28	1.46
6	2-H	356	THR	N-CA	-14.04	1.28	1.46
6	3-H	356	THR	N-CA	-14.04	1.28	1.46
6	4-H	356	THR	N-CA	-14.04	1.28	1.46
6	5-H	356	THR	N-CA	-14.04	1.28	1.46
6	6-H	356	THR	N-CA	-14.04	1.28	1.46
6	7-H	356	THR	N-CA	-14.04	1.28	1.46
6	8-H	356	THR	N-CA	-14.04	1.28	1.46
6	1-T	356	THR	N-CA	-14.02	1.28	1.46
6	2-T	356	THR	N-CA	-14.02	1.28	1.46
6	3-T	356	THR	N-CA	-14.02	1.28	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	356	THR	N-CA	-14.02	1.28	1.46
6	5-T	356	THR	N-CA	-14.02	1.28	1.46
6	6-T	356	THR	N-CA	-14.02	1.28	1.46
6	7-T	356	THR	N-CA	-14.02	1.28	1.46
6	8-T	356	THR	N-CA	-14.02	1.28	1.46
6	1-N	356	THR	N-CA	-14.02	1.28	1.46
6	2-N	356	THR	N-CA	-14.02	1.28	1.46
6	3-N	356	THR	N-CA	-14.02	1.28	1.46
6	4-N	356	THR	N-CA	-14.02	1.28	1.46
6	5-N	356	THR	N-CA	-14.02	1.28	1.46
6	6-N	356	THR	N-CA	-14.02	1.28	1.46
6	7-N	356	THR	N-CA	-14.02	1.28	1.46
6	8-N	356	THR	N-CA	-14.02	1.28	1.46
6	1-Z	356	THR	N-CA	-14.01	1.28	1.46
6	2-Z	356	THR	N-CA	-14.01	1.28	1.46
6	3-Z	356	THR	N-CA	-14.01	1.28	1.46
6	4-Z	356	THR	N-CA	-14.01	1.28	1.46
6	5-Z	356	THR	N-CA	-14.01	1.28	1.46
6	6-Z	356	THR	N-CA	-14.01	1.28	1.46
6	7-Z	356	THR	N-CA	-14.01	1.28	1.46
6	8-Z	356	THR	N-CA	-14.01	1.28	1.46
5	1-G	366	GLU	CA-CB	13.99	1.76	1.53
5	2-G	366	GLU	CA-CB	13.99	1.76	1.53
5	3-G	366	GLU	CA-CB	13.99	1.76	1.53
5	4-G	366	GLU	CA-CB	13.99	1.76	1.53
5	5-G	366	GLU	CA-CB	13.99	1.76	1.53
5	6-G	366	GLU	CA-CB	13.99	1.76	1.53
5	7-G	366	GLU	CA-CB	13.99	1.76	1.53
5	8-G	366	GLU	CA-CB	13.99	1.76	1.53
3	1-J	1544	PRO	CA-C	13.98	1.65	1.52
3	2-J	1544	PRO	CA-C	13.98	1.65	1.52
3	3-J	1544	PRO	CA-C	13.98	1.65	1.52
3	4-J	1544	PRO	CA-C	13.98	1.65	1.52
3	5-J	1544	PRO	CA-C	13.98	1.65	1.52
3	6-J	1544	PRO	CA-C	13.98	1.65	1.52
3	7-J	1544	PRO	CA-C	13.98	1.65	1.52
3	8-J	1544	PRO	CA-C	13.98	1.65	1.52
6	1-T	445	LYS	N-CA	-13.97	1.29	1.46
6	2-T	445	LYS	N-CA	-13.97	1.29	1.46
6	3-T	445	LYS	N-CA	-13.97	1.29	1.46
6	4-T	445	LYS	N-CA	-13.97	1.29	1.46
6	5-T	445	LYS	N-CA	-13.97	1.29	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-T	445	LYS	N-CA	-13.97	1.29	1.46
6	7-T	445	LYS	N-CA	-13.97	1.29	1.46
6	8-T	445	LYS	N-CA	-13.97	1.29	1.46
5	1-M	366	GLU	CA-CB	13.96	1.76	1.53
6	1-Z	490	GLN	CA-C	13.96	1.70	1.52
5	2-M	366	GLU	CA-CB	13.96	1.76	1.53
6	2-Z	490	GLN	CA-C	13.96	1.70	1.52
5	3-M	366	GLU	CA-CB	13.96	1.76	1.53
6	3-Z	490	GLN	CA-C	13.96	1.70	1.52
5	4-M	366	GLU	CA-CB	13.96	1.76	1.53
6	4-Z	490	GLN	CA-C	13.96	1.70	1.52
5	5-M	366	GLU	CA-CB	13.96	1.76	1.53
6	5-Z	490	GLN	CA-C	13.96	1.70	1.52
5	6-M	366	GLU	CA-CB	13.96	1.76	1.53
6	6-Z	490	GLN	CA-C	13.96	1.70	1.52
5	7-M	366	GLU	CA-CB	13.96	1.76	1.53
6	7-Z	490	GLN	CA-C	13.96	1.70	1.52
5	8-M	366	GLU	CA-CB	13.96	1.76	1.53
6	8-Z	490	GLN	CA-C	13.96	1.70	1.52
6	1-N	490	GLN	CA-C	13.96	1.70	1.52
6	2-N	490	GLN	CA-C	13.96	1.70	1.52
6	3-N	490	GLN	CA-C	13.96	1.70	1.52
6	4-N	490	GLN	CA-C	13.96	1.70	1.52
6	5-N	490	GLN	CA-C	13.96	1.70	1.52
6	6-N	490	GLN	CA-C	13.96	1.70	1.52
6	7-N	490	GLN	CA-C	13.96	1.70	1.52
6	8-N	490	GLN	CA-C	13.96	1.70	1.52
5	1-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	2-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	3-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	4-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	5-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	6-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	7-Y	329	GLN	N-CA	-13.96	1.32	1.46
5	8-Y	329	GLN	N-CA	-13.96	1.32	1.46
3	1-V	1544	PRO	CA-C	13.95	1.65	1.52
3	2-V	1544	PRO	CA-C	13.95	1.65	1.52
3	3-V	1544	PRO	CA-C	13.95	1.65	1.52
3	4-V	1544	PRO	CA-C	13.95	1.65	1.52
3	5-V	1544	PRO	CA-C	13.95	1.65	1.52
3	6-V	1544	PRO	CA-C	13.95	1.65	1.52
3	7-V	1544	PRO	CA-C	13.95	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-V	1544	PRO	CA-C	13.95	1.65	1.52
6	1-N	445	LYS	N-CA	-13.95	1.29	1.46
6	2-N	445	LYS	N-CA	-13.95	1.29	1.46
6	3-N	445	LYS	N-CA	-13.95	1.29	1.46
6	4-N	445	LYS	N-CA	-13.95	1.29	1.46
6	5-N	445	LYS	N-CA	-13.95	1.29	1.46
6	6-N	445	LYS	N-CA	-13.95	1.29	1.46
6	7-N	445	LYS	N-CA	-13.95	1.29	1.46
6	8-N	445	LYS	N-CA	-13.95	1.29	1.46
5	1-S	366	GLU	CA-CB	13.95	1.76	1.53
5	1-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	2-S	366	GLU	CA-CB	13.95	1.76	1.53
5	2-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	3-S	366	GLU	CA-CB	13.95	1.76	1.53
5	3-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	4-S	366	GLU	CA-CB	13.95	1.76	1.53
5	4-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	5-S	366	GLU	CA-CB	13.95	1.76	1.53
5	5-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	6-S	366	GLU	CA-CB	13.95	1.76	1.53
5	6-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	7-S	366	GLU	CA-CB	13.95	1.76	1.53
5	7-Y	366	GLU	CA-CB	13.95	1.76	1.53
5	8-S	366	GLU	CA-CB	13.95	1.76	1.53
5	8-Y	366	GLU	CA-CB	13.95	1.76	1.53
6	1-H	416	GLU	CA-C	-13.94	1.35	1.52
6	2-H	416	GLU	CA-C	-13.94	1.35	1.52
6	3-H	416	GLU	CA-C	-13.94	1.35	1.52
6	4-H	416	GLU	CA-C	-13.94	1.35	1.52
6	5-H	416	GLU	CA-C	-13.94	1.35	1.52
6	6-H	416	GLU	CA-C	-13.94	1.35	1.52
6	7-H	416	GLU	CA-C	-13.94	1.35	1.52
6	8-H	416	GLU	CA-C	-13.94	1.35	1.52
3	1-P	1544	PRO	CA-C	13.94	1.65	1.52
3	2-P	1544	PRO	CA-C	13.94	1.65	1.52
3	3-P	1544	PRO	CA-C	13.94	1.65	1.52
3	4-P	1544	PRO	CA-C	13.94	1.65	1.52
3	5-P	1544	PRO	CA-C	13.94	1.65	1.52
3	6-P	1544	PRO	CA-C	13.94	1.65	1.52
3	7-P	1544	PRO	CA-C	13.94	1.65	1.52
3	8-P	1544	PRO	CA-C	13.94	1.65	1.52
6	1-T	490	GLN	CA-C	13.94	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	490	GLN	CA-C	13.94	1.70	1.52
6	3-T	490	GLN	CA-C	13.94	1.70	1.52
6	4-T	490	GLN	CA-C	13.94	1.70	1.52
6	5-T	490	GLN	CA-C	13.94	1.70	1.52
6	6-T	490	GLN	CA-C	13.94	1.70	1.52
6	7-T	490	GLN	CA-C	13.94	1.70	1.52
6	8-T	490	GLN	CA-C	13.94	1.70	1.52
6	1-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	2-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	3-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	4-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	5-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	6-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	7-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	8-Z	445	LYS	N-CA	-13.93	1.29	1.46
6	1-H	445	LYS	N-CA	-13.93	1.29	1.46
6	1-N	416	GLU	CA-C	-13.93	1.35	1.52
6	2-H	445	LYS	N-CA	-13.93	1.29	1.46
6	2-N	416	GLU	CA-C	-13.93	1.35	1.52
6	3-H	445	LYS	N-CA	-13.93	1.29	1.46
6	3-N	416	GLU	CA-C	-13.93	1.35	1.52
6	4-H	445	LYS	N-CA	-13.93	1.29	1.46
6	4-N	416	GLU	CA-C	-13.93	1.35	1.52
6	5-H	445	LYS	N-CA	-13.93	1.29	1.46
6	5-N	416	GLU	CA-C	-13.93	1.35	1.52
6	6-H	445	LYS	N-CA	-13.93	1.29	1.46
6	6-N	416	GLU	CA-C	-13.93	1.35	1.52
6	7-H	445	LYS	N-CA	-13.93	1.29	1.46
6	7-N	416	GLU	CA-C	-13.93	1.35	1.52
6	8-H	445	LYS	N-CA	-13.93	1.29	1.46
6	8-N	416	GLU	CA-C	-13.93	1.35	1.52
6	1-H	490	GLN	CA-C	13.93	1.70	1.52
6	2-H	490	GLN	CA-C	13.93	1.70	1.52
6	3-H	490	GLN	CA-C	13.93	1.70	1.52
6	4-H	490	GLN	CA-C	13.93	1.70	1.52
6	5-H	490	GLN	CA-C	13.93	1.70	1.52
6	6-H	490	GLN	CA-C	13.93	1.70	1.52
6	7-H	490	GLN	CA-C	13.93	1.70	1.52
6	8-H	490	GLN	CA-C	13.93	1.70	1.52
6	1-Z	416	GLU	CA-C	-13.92	1.35	1.52
6	2-Z	416	GLU	CA-C	-13.92	1.35	1.52
6	3-Z	416	GLU	CA-C	-13.92	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	416	GLU	CA-C	-13.92	1.35	1.52
6	5-Z	416	GLU	CA-C	-13.92	1.35	1.52
6	6-Z	416	GLU	CA-C	-13.92	1.35	1.52
6	7-Z	416	GLU	CA-C	-13.92	1.35	1.52
6	8-Z	416	GLU	CA-C	-13.92	1.35	1.52
5	1-G	329	GLN	N-CA	-13.90	1.32	1.46
5	2-G	329	GLN	N-CA	-13.90	1.32	1.46
5	3-G	329	GLN	N-CA	-13.90	1.32	1.46
5	4-G	329	GLN	N-CA	-13.90	1.32	1.46
5	5-G	329	GLN	N-CA	-13.90	1.32	1.46
5	6-G	329	GLN	N-CA	-13.90	1.32	1.46
5	7-G	329	GLN	N-CA	-13.90	1.32	1.46
5	8-G	329	GLN	N-CA	-13.90	1.32	1.46
5	1-S	329	GLN	N-CA	-13.90	1.32	1.46
5	2-S	329	GLN	N-CA	-13.90	1.32	1.46
5	3-S	329	GLN	N-CA	-13.90	1.32	1.46
5	4-S	329	GLN	N-CA	-13.90	1.32	1.46
5	5-S	329	GLN	N-CA	-13.90	1.32	1.46
5	6-S	329	GLN	N-CA	-13.90	1.32	1.46
5	7-S	329	GLN	N-CA	-13.90	1.32	1.46
5	8-S	329	GLN	N-CA	-13.90	1.32	1.46
6	1-T	416	GLU	CA-C	-13.88	1.35	1.52
6	2-T	416	GLU	CA-C	-13.88	1.35	1.52
6	3-T	416	GLU	CA-C	-13.88	1.35	1.52
6	4-T	416	GLU	CA-C	-13.88	1.35	1.52
6	5-T	416	GLU	CA-C	-13.88	1.35	1.52
6	6-T	416	GLU	CA-C	-13.88	1.35	1.52
6	7-T	416	GLU	CA-C	-13.88	1.35	1.52
6	8-T	416	GLU	CA-C	-13.88	1.35	1.52
3	1-D	1544	PRO	CA-C	13.88	1.65	1.52
3	2-D	1544	PRO	CA-C	13.88	1.65	1.52
3	3-D	1544	PRO	CA-C	13.88	1.65	1.52
3	4-D	1544	PRO	CA-C	13.88	1.65	1.52
3	5-D	1544	PRO	CA-C	13.88	1.65	1.52
3	6-D	1544	PRO	CA-C	13.88	1.65	1.52
3	7-D	1544	PRO	CA-C	13.88	1.65	1.52
3	8-D	1544	PRO	CA-C	13.88	1.65	1.52
5	1-M	329	GLN	N-CA	-13.86	1.32	1.46
5	2-M	329	GLN	N-CA	-13.86	1.32	1.46
5	3-M	329	GLN	N-CA	-13.86	1.32	1.46
5	4-M	329	GLN	N-CA	-13.86	1.32	1.46
5	5-M	329	GLN	N-CA	-13.86	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	329	GLN	N-CA	-13.86	1.32	1.46
5	7-M	329	GLN	N-CA	-13.86	1.32	1.46
5	8-M	329	GLN	N-CA	-13.86	1.32	1.46
4	1-L	428	LYS	CA-C	-13.84	1.34	1.52
4	2-L	428	LYS	CA-C	-13.84	1.34	1.52
4	3-L	428	LYS	CA-C	-13.84	1.34	1.52
4	4-L	428	LYS	CA-C	-13.84	1.34	1.52
4	5-L	428	LYS	CA-C	-13.84	1.34	1.52
4	6-L	428	LYS	CA-C	-13.84	1.34	1.52
4	7-L	428	LYS	CA-C	-13.84	1.34	1.52
4	8-L	428	LYS	CA-C	-13.84	1.34	1.52
4	1-X	428	LYS	CA-C	-13.83	1.34	1.52
4	2-X	428	LYS	CA-C	-13.83	1.34	1.52
4	3-X	428	LYS	CA-C	-13.83	1.34	1.52
4	4-X	428	LYS	CA-C	-13.83	1.34	1.52
4	5-X	428	LYS	CA-C	-13.83	1.34	1.52
4	6-X	428	LYS	CA-C	-13.83	1.34	1.52
4	7-X	428	LYS	CA-C	-13.83	1.34	1.52
4	8-X	428	LYS	CA-C	-13.83	1.34	1.52
4	1-F	428	LYS	CA-C	-13.80	1.34	1.52
4	2-F	428	LYS	CA-C	-13.80	1.34	1.52
4	3-F	428	LYS	CA-C	-13.80	1.34	1.52
4	4-F	428	LYS	CA-C	-13.80	1.34	1.52
4	5-F	428	LYS	CA-C	-13.80	1.34	1.52
4	6-F	428	LYS	CA-C	-13.80	1.34	1.52
4	7-F	428	LYS	CA-C	-13.80	1.34	1.52
4	8-F	428	LYS	CA-C	-13.80	1.34	1.52
4	1-R	428	LYS	CA-C	-13.80	1.35	1.52
4	2-R	428	LYS	CA-C	-13.80	1.35	1.52
4	3-R	428	LYS	CA-C	-13.80	1.35	1.52
4	4-R	428	LYS	CA-C	-13.80	1.35	1.52
4	5-R	428	LYS	CA-C	-13.80	1.35	1.52
4	6-R	428	LYS	CA-C	-13.80	1.35	1.52
4	7-R	428	LYS	CA-C	-13.80	1.35	1.52
4	8-R	428	LYS	CA-C	-13.80	1.35	1.52
3	1-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	2-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	3-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	4-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	5-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	6-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	7-J	1485	ALA	CA-C	-13.78	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-J	1485	ALA	CA-C	-13.78	1.34	1.52
3	1-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	2-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	3-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	4-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	5-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	6-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	7-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	8-V	1485	ALA	CA-C	-13.73	1.34	1.52
3	1-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	2-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	3-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	4-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	5-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	6-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	7-P	1485	ALA	CA-C	-13.73	1.34	1.52
3	8-P	1485	ALA	CA-C	-13.73	1.34	1.52
2	1-C	7	GLY	C-N	-13.70	1.14	1.33
2	2-C	7	GLY	C-N	-13.70	1.14	1.33
2	3-C	7	GLY	C-N	-13.70	1.14	1.33
2	4-C	7	GLY	C-N	-13.70	1.14	1.33
2	5-C	7	GLY	C-N	-13.70	1.14	1.33
2	6-C	7	GLY	C-N	-13.70	1.14	1.33
2	7-C	7	GLY	C-N	-13.70	1.14	1.33
2	8-C	7	GLY	C-N	-13.70	1.14	1.33
3	1-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	2-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	3-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	4-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	5-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	6-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	7-D	1485	ALA	CA-C	-13.69	1.34	1.52
3	8-D	1485	ALA	CA-C	-13.69	1.34	1.52
2	1-I	7	GLY	C-N	-13.68	1.14	1.33
2	2-I	7	GLY	C-N	-13.68	1.14	1.33
2	3-I	7	GLY	C-N	-13.68	1.14	1.33
2	4-I	7	GLY	C-N	-13.68	1.14	1.33
2	5-I	7	GLY	C-N	-13.68	1.14	1.33
2	6-I	7	GLY	C-N	-13.68	1.14	1.33
2	7-I	7	GLY	C-N	-13.68	1.14	1.33
2	8-I	7	GLY	C-N	-13.68	1.14	1.33
2	1-O	7	GLY	C-N	-13.68	1.14	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-O	7	GLY	C-N	-13.68	1.14	1.33
2	3-O	7	GLY	C-N	-13.68	1.14	1.33
2	4-O	7	GLY	C-N	-13.68	1.14	1.33
2	5-O	7	GLY	C-N	-13.68	1.14	1.33
2	6-O	7	GLY	C-N	-13.68	1.14	1.33
2	7-O	7	GLY	C-N	-13.68	1.14	1.33
2	8-O	7	GLY	C-N	-13.68	1.14	1.33
2	1-U	7	GLY	C-N	-13.66	1.14	1.33
2	2-U	7	GLY	C-N	-13.66	1.14	1.33
2	3-U	7	GLY	C-N	-13.66	1.14	1.33
2	4-U	7	GLY	C-N	-13.66	1.14	1.33
2	5-U	7	GLY	C-N	-13.66	1.14	1.33
2	6-U	7	GLY	C-N	-13.66	1.14	1.33
2	7-U	7	GLY	C-N	-13.66	1.14	1.33
2	8-U	7	GLY	C-N	-13.66	1.14	1.33
4	1-X	457	ALA	CA-C	13.61	1.71	1.52
4	2-X	457	ALA	CA-C	13.61	1.71	1.52
4	3-X	457	ALA	CA-C	13.61	1.71	1.52
4	4-X	457	ALA	CA-C	13.61	1.71	1.52
4	5-X	457	ALA	CA-C	13.61	1.71	1.52
4	6-X	457	ALA	CA-C	13.61	1.71	1.52
4	7-X	457	ALA	CA-C	13.61	1.71	1.52
4	8-X	457	ALA	CA-C	13.61	1.71	1.52
4	1-R	457	ALA	CA-C	13.57	1.71	1.52
4	2-R	457	ALA	CA-C	13.57	1.71	1.52
4	3-R	457	ALA	CA-C	13.57	1.71	1.52
4	4-R	457	ALA	CA-C	13.57	1.71	1.52
4	5-R	457	ALA	CA-C	13.57	1.71	1.52
4	6-R	457	ALA	CA-C	13.57	1.71	1.52
4	7-R	457	ALA	CA-C	13.57	1.71	1.52
4	8-R	457	ALA	CA-C	13.57	1.71	1.52
4	1-L	457	ALA	CA-C	13.56	1.71	1.52
4	2-L	457	ALA	CA-C	13.56	1.71	1.52
4	3-L	457	ALA	CA-C	13.56	1.71	1.52
4	4-L	457	ALA	CA-C	13.56	1.71	1.52
4	5-L	457	ALA	CA-C	13.56	1.71	1.52
4	6-L	457	ALA	CA-C	13.56	1.71	1.52
4	7-L	457	ALA	CA-C	13.56	1.71	1.52
4	8-L	457	ALA	CA-C	13.56	1.71	1.52
4	1-F	457	ALA	CA-C	13.56	1.71	1.52
4	2-F	457	ALA	CA-C	13.56	1.71	1.52
4	3-F	457	ALA	CA-C	13.56	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	457	ALA	CA-C	13.56	1.71	1.52
4	5-F	457	ALA	CA-C	13.56	1.71	1.52
4	6-F	457	ALA	CA-C	13.56	1.71	1.52
4	7-F	457	ALA	CA-C	13.56	1.71	1.52
4	8-F	457	ALA	CA-C	13.56	1.71	1.52
6	1-N	490	GLN	N-CA	-13.54	1.27	1.45
6	2-N	490	GLN	N-CA	-13.54	1.27	1.45
6	3-N	490	GLN	N-CA	-13.54	1.27	1.45
6	4-N	490	GLN	N-CA	-13.54	1.27	1.45
6	5-N	490	GLN	N-CA	-13.54	1.27	1.45
6	6-N	490	GLN	N-CA	-13.54	1.27	1.45
6	7-N	490	GLN	N-CA	-13.54	1.27	1.45
6	8-N	490	GLN	N-CA	-13.54	1.27	1.45
6	1-T	490	GLN	N-CA	-13.51	1.27	1.45
6	2-T	490	GLN	N-CA	-13.51	1.27	1.45
6	3-T	490	GLN	N-CA	-13.51	1.27	1.45
6	4-T	490	GLN	N-CA	-13.51	1.27	1.45
6	5-T	490	GLN	N-CA	-13.51	1.27	1.45
6	6-T	490	GLN	N-CA	-13.51	1.27	1.45
6	7-T	490	GLN	N-CA	-13.51	1.27	1.45
6	8-T	490	GLN	N-CA	-13.51	1.27	1.45
4	1-X	463	ILE	N-CA	-13.51	1.29	1.46
4	2-X	463	ILE	N-CA	-13.51	1.29	1.46
4	3-X	463	ILE	N-CA	-13.51	1.29	1.46
4	4-X	463	ILE	N-CA	-13.51	1.29	1.46
4	5-X	463	ILE	N-CA	-13.51	1.29	1.46
4	6-X	463	ILE	N-CA	-13.51	1.29	1.46
4	7-X	463	ILE	N-CA	-13.51	1.29	1.46
4	8-X	463	ILE	N-CA	-13.51	1.29	1.46
4	1-F	463	ILE	N-CA	-13.50	1.29	1.46
4	1-L	463	ILE	N-CA	-13.50	1.29	1.46
4	2-F	463	ILE	N-CA	-13.50	1.29	1.46
4	2-L	463	ILE	N-CA	-13.50	1.29	1.46
4	3-F	463	ILE	N-CA	-13.50	1.29	1.46
4	3-L	463	ILE	N-CA	-13.50	1.29	1.46
4	4-F	463	ILE	N-CA	-13.50	1.29	1.46
4	4-L	463	ILE	N-CA	-13.50	1.29	1.46
4	5-F	463	ILE	N-CA	-13.50	1.29	1.46
4	5-L	463	ILE	N-CA	-13.50	1.29	1.46
4	6-F	463	ILE	N-CA	-13.50	1.29	1.46
4	6-L	463	ILE	N-CA	-13.50	1.29	1.46
4	7-F	463	ILE	N-CA	-13.50	1.29	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-L	463	ILE	N-CA	-13.50	1.29	1.46
4	8-F	463	ILE	N-CA	-13.50	1.29	1.46
4	8-L	463	ILE	N-CA	-13.50	1.29	1.46
6	1-H	490	GLN	N-CA	-13.47	1.27	1.45
6	2-H	490	GLN	N-CA	-13.47	1.27	1.45
6	3-H	490	GLN	N-CA	-13.47	1.27	1.45
6	4-H	490	GLN	N-CA	-13.47	1.27	1.45
6	5-H	490	GLN	N-CA	-13.47	1.27	1.45
6	6-H	490	GLN	N-CA	-13.47	1.27	1.45
6	7-H	490	GLN	N-CA	-13.47	1.27	1.45
6	8-H	490	GLN	N-CA	-13.47	1.27	1.45
4	1-F	299	ASN	C-N	13.47	1.49	1.33
4	2-F	299	ASN	C-N	13.47	1.49	1.33
4	3-F	299	ASN	C-N	13.47	1.49	1.33
4	4-F	299	ASN	C-N	13.47	1.49	1.33
4	5-F	299	ASN	C-N	13.47	1.49	1.33
4	6-F	299	ASN	C-N	13.47	1.49	1.33
4	7-F	299	ASN	C-N	13.47	1.49	1.33
4	8-F	299	ASN	C-N	13.47	1.49	1.33
4	1-L	299	ASN	C-N	13.46	1.49	1.33
6	1-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	2-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	3-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	4-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	5-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	6-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	7-Z	490	GLN	N-CA	-13.46	1.27	1.45
6	8-Z	490	GLN	N-CA	-13.46	1.27	1.45
4	1-X	487	ASP	N-CA	-13.45	1.28	1.46
4	2-L	299	ASN	C-N	13.46	1.49	1.33
4	2-X	487	ASP	N-CA	-13.45	1.28	1.46
4	3-L	299	ASN	C-N	13.46	1.49	1.33
4	3-X	487	ASP	N-CA	-13.45	1.28	1.46
4	4-L	299	ASN	C-N	13.46	1.49	1.33
4	4-X	487	ASP	N-CA	-13.45	1.28	1.46
4	5-L	299	ASN	C-N	13.46	1.49	1.33
4	5-X	487	ASP	N-CA	-13.45	1.28	1.46
4	6-L	299	ASN	C-N	13.46	1.49	1.33
4	6-X	487	ASP	N-CA	-13.45	1.28	1.46
4	7-L	299	ASN	C-N	13.46	1.49	1.33
4	7-X	487	ASP	N-CA	-13.45	1.28	1.46
4	8-L	299	ASN	C-N	13.46	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	487	ASP	N-CA	-13.45	1.28	1.46
4	1-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	1-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	2-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	2-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	3-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	3-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	4-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	4-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	5-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	5-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	6-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	6-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	7-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	7-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	8-F	486	GLU	CA-CB	-13.45	1.31	1.53
4	8-X	486	GLU	CA-CB	-13.45	1.31	1.53
4	1-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	1-X	299	ASN	C-N	13.45	1.49	1.33
4	2-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	2-X	299	ASN	C-N	13.45	1.49	1.33
4	3-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	3-X	299	ASN	C-N	13.45	1.49	1.33
4	4-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	4-X	299	ASN	C-N	13.45	1.49	1.33
4	5-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	5-X	299	ASN	C-N	13.45	1.49	1.33
4	6-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	6-X	299	ASN	C-N	13.45	1.49	1.33
4	7-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	7-X	299	ASN	C-N	13.45	1.49	1.33
4	8-L	486	GLU	CA-CB	-13.45	1.31	1.53
4	8-X	299	ASN	C-N	13.45	1.49	1.33
4	1-L	487	ASP	N-CA	-13.44	1.28	1.46
4	2-L	487	ASP	N-CA	-13.44	1.28	1.46
4	3-L	487	ASP	N-CA	-13.44	1.28	1.46
4	4-L	487	ASP	N-CA	-13.44	1.28	1.46
4	5-L	487	ASP	N-CA	-13.44	1.28	1.46
4	6-L	487	ASP	N-CA	-13.44	1.28	1.46
4	7-L	487	ASP	N-CA	-13.44	1.28	1.46
4	8-L	487	ASP	N-CA	-13.44	1.28	1.46
4	1-R	463	ILE	N-CA	-13.44	1.29	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	463	ILE	N-CA	-13.44	1.29	1.46
4	3-R	463	ILE	N-CA	-13.44	1.29	1.46
4	4-R	463	ILE	N-CA	-13.44	1.29	1.46
4	5-R	463	ILE	N-CA	-13.44	1.29	1.46
4	6-R	463	ILE	N-CA	-13.44	1.29	1.46
4	7-R	463	ILE	N-CA	-13.44	1.29	1.46
4	8-R	463	ILE	N-CA	-13.44	1.29	1.46
4	1-R	487	ASP	N-CA	-13.43	1.28	1.46
4	2-R	487	ASP	N-CA	-13.43	1.28	1.46
4	3-R	487	ASP	N-CA	-13.43	1.28	1.46
4	4-R	487	ASP	N-CA	-13.43	1.28	1.46
4	5-R	487	ASP	N-CA	-13.43	1.28	1.46
4	6-R	487	ASP	N-CA	-13.43	1.28	1.46
4	7-R	487	ASP	N-CA	-13.43	1.28	1.46
4	8-R	487	ASP	N-CA	-13.43	1.28	1.46
4	1-F	143	GLN	N-CA	13.43	1.63	1.46
4	2-F	143	GLN	N-CA	13.43	1.63	1.46
4	3-F	143	GLN	N-CA	13.43	1.63	1.46
4	4-F	143	GLN	N-CA	13.43	1.63	1.46
4	5-F	143	GLN	N-CA	13.43	1.63	1.46
4	6-F	143	GLN	N-CA	13.43	1.63	1.46
4	7-F	143	GLN	N-CA	13.43	1.63	1.46
4	8-F	143	GLN	N-CA	13.43	1.63	1.46
4	1-F	487	ASP	N-CA	-13.43	1.28	1.46
4	2-F	487	ASP	N-CA	-13.43	1.28	1.46
4	3-F	487	ASP	N-CA	-13.43	1.28	1.46
4	4-F	487	ASP	N-CA	-13.43	1.28	1.46
4	5-F	487	ASP	N-CA	-13.43	1.28	1.46
4	6-F	487	ASP	N-CA	-13.43	1.28	1.46
4	7-F	487	ASP	N-CA	-13.43	1.28	1.46
4	8-F	487	ASP	N-CA	-13.43	1.28	1.46
4	1-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	2-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	3-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	4-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	5-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	6-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	7-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	8-R	486	GLU	CA-CB	-13.42	1.31	1.53
4	1-R	299	ASN	C-N	13.40	1.49	1.33
4	2-R	299	ASN	C-N	13.40	1.49	1.33
4	3-R	299	ASN	C-N	13.40	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	299	ASN	C-N	13.40	1.49	1.33
4	5-R	299	ASN	C-N	13.40	1.49	1.33
4	6-R	299	ASN	C-N	13.40	1.49	1.33
4	7-R	299	ASN	C-N	13.40	1.49	1.33
4	8-R	299	ASN	C-N	13.40	1.49	1.33
4	1-F	458	ASP	N-CA	13.38	1.63	1.46
4	2-F	458	ASP	N-CA	13.38	1.63	1.46
4	3-F	458	ASP	N-CA	13.38	1.63	1.46
4	4-F	458	ASP	N-CA	13.38	1.63	1.46
4	5-F	458	ASP	N-CA	13.38	1.63	1.46
4	6-F	458	ASP	N-CA	13.38	1.63	1.46
4	7-F	458	ASP	N-CA	13.38	1.63	1.46
4	8-F	458	ASP	N-CA	13.38	1.63	1.46
6	1-T	412	GLU	C-N	-13.38	1.16	1.33
6	2-T	412	GLU	C-N	-13.38	1.16	1.33
6	3-T	412	GLU	C-N	-13.38	1.16	1.33
6	4-T	412	GLU	C-N	-13.38	1.16	1.33
6	5-T	412	GLU	C-N	-13.38	1.16	1.33
6	6-T	412	GLU	C-N	-13.38	1.16	1.33
6	7-T	412	GLU	C-N	-13.38	1.16	1.33
6	8-T	412	GLU	C-N	-13.38	1.16	1.33
4	1-L	143	GLN	N-CA	13.38	1.63	1.46
4	1-X	458	ASP	N-CA	13.38	1.63	1.46
4	2-L	143	GLN	N-CA	13.38	1.63	1.46
4	2-X	458	ASP	N-CA	13.38	1.63	1.46
4	3-L	143	GLN	N-CA	13.38	1.63	1.46
4	3-X	458	ASP	N-CA	13.38	1.63	1.46
4	4-L	143	GLN	N-CA	13.38	1.63	1.46
4	4-X	458	ASP	N-CA	13.38	1.63	1.46
4	5-L	143	GLN	N-CA	13.38	1.63	1.46
4	5-X	458	ASP	N-CA	13.38	1.63	1.46
4	6-L	143	GLN	N-CA	13.38	1.63	1.46
4	6-X	458	ASP	N-CA	13.38	1.63	1.46
4	7-L	143	GLN	N-CA	13.38	1.63	1.46
4	7-X	458	ASP	N-CA	13.38	1.63	1.46
4	8-L	143	GLN	N-CA	13.38	1.63	1.46
4	8-X	458	ASP	N-CA	13.38	1.63	1.46
4	1-L	458	ASP	N-CA	13.37	1.63	1.46
4	2-L	458	ASP	N-CA	13.37	1.63	1.46
4	3-L	458	ASP	N-CA	13.37	1.63	1.46
4	4-L	458	ASP	N-CA	13.37	1.63	1.46
4	5-L	458	ASP	N-CA	13.37	1.63	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	458	ASP	N-CA	13.37	1.63	1.46
4	7-L	458	ASP	N-CA	13.37	1.63	1.46
4	8-L	458	ASP	N-CA	13.37	1.63	1.46
6	1-H	412	GLU	C-N	-13.37	1.16	1.33
6	2-H	412	GLU	C-N	-13.37	1.16	1.33
6	3-H	412	GLU	C-N	-13.37	1.16	1.33
6	4-H	412	GLU	C-N	-13.37	1.16	1.33
6	5-H	412	GLU	C-N	-13.37	1.16	1.33
6	6-H	412	GLU	C-N	-13.37	1.16	1.33
6	7-H	412	GLU	C-N	-13.37	1.16	1.33
6	8-H	412	GLU	C-N	-13.37	1.16	1.33
5	1-M	338	GLU	C-N	13.36	1.52	1.33
5	2-M	338	GLU	C-N	13.36	1.52	1.33
5	3-M	338	GLU	C-N	13.36	1.52	1.33
5	4-M	338	GLU	C-N	13.36	1.52	1.33
5	5-M	338	GLU	C-N	13.36	1.52	1.33
5	6-M	338	GLU	C-N	13.36	1.52	1.33
5	7-M	338	GLU	C-N	13.36	1.52	1.33
5	8-M	338	GLU	C-N	13.36	1.52	1.33
4	1-R	458	ASP	N-CA	13.36	1.63	1.46
4	2-R	458	ASP	N-CA	13.36	1.63	1.46
4	3-R	458	ASP	N-CA	13.36	1.63	1.46
4	4-R	458	ASP	N-CA	13.36	1.63	1.46
4	5-R	458	ASP	N-CA	13.36	1.63	1.46
4	6-R	458	ASP	N-CA	13.36	1.63	1.46
4	7-R	458	ASP	N-CA	13.36	1.63	1.46
4	8-R	458	ASP	N-CA	13.36	1.63	1.46
4	1-X	143	GLN	N-CA	13.35	1.63	1.46
4	2-X	143	GLN	N-CA	13.35	1.63	1.46
4	3-X	143	GLN	N-CA	13.35	1.63	1.46
4	4-X	143	GLN	N-CA	13.35	1.63	1.46
4	5-X	143	GLN	N-CA	13.35	1.63	1.46
4	6-X	143	GLN	N-CA	13.35	1.63	1.46
4	7-X	143	GLN	N-CA	13.35	1.63	1.46
4	8-X	143	GLN	N-CA	13.35	1.63	1.46
5	1-G	338	GLU	C-N	13.35	1.52	1.33
5	2-G	338	GLU	C-N	13.35	1.52	1.33
5	3-G	338	GLU	C-N	13.35	1.52	1.33
5	4-G	338	GLU	C-N	13.35	1.52	1.33
5	5-G	338	GLU	C-N	13.35	1.52	1.33
5	6-G	338	GLU	C-N	13.35	1.52	1.33
5	7-G	338	GLU	C-N	13.35	1.52	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-G	338	GLU	C-N	13.35	1.52	1.33
6	1-Z	412	GLU	C-N	-13.34	1.16	1.33
6	2-Z	412	GLU	C-N	-13.34	1.16	1.33
6	3-Z	412	GLU	C-N	-13.34	1.16	1.33
6	4-Z	412	GLU	C-N	-13.34	1.16	1.33
6	5-Z	412	GLU	C-N	-13.34	1.16	1.33
6	6-Z	412	GLU	C-N	-13.34	1.16	1.33
6	7-Z	412	GLU	C-N	-13.34	1.16	1.33
6	8-Z	412	GLU	C-N	-13.34	1.16	1.33
4	1-R	143	GLN	N-CA	13.34	1.63	1.46
4	1-R	424	PRO	CA-C	-13.34	1.33	1.52
4	2-R	143	GLN	N-CA	13.34	1.63	1.46
4	2-R	424	PRO	CA-C	-13.34	1.33	1.52
4	3-R	143	GLN	N-CA	13.34	1.63	1.46
4	3-R	424	PRO	CA-C	-13.34	1.33	1.52
4	4-R	143	GLN	N-CA	13.34	1.63	1.46
4	4-R	424	PRO	CA-C	-13.34	1.33	1.52
4	5-R	143	GLN	N-CA	13.34	1.63	1.46
4	5-R	424	PRO	CA-C	-13.34	1.33	1.52
4	6-R	143	GLN	N-CA	13.34	1.63	1.46
4	6-R	424	PRO	CA-C	-13.34	1.33	1.52
4	7-R	143	GLN	N-CA	13.34	1.63	1.46
4	7-R	424	PRO	CA-C	-13.34	1.33	1.52
4	8-R	143	GLN	N-CA	13.34	1.63	1.46
4	8-R	424	PRO	CA-C	-13.34	1.33	1.52
5	1-Y	338	GLU	C-N	13.33	1.52	1.33
5	2-Y	338	GLU	C-N	13.33	1.52	1.33
5	3-Y	338	GLU	C-N	13.33	1.52	1.33
5	4-Y	338	GLU	C-N	13.33	1.52	1.33
5	5-Y	338	GLU	C-N	13.33	1.52	1.33
5	6-Y	338	GLU	C-N	13.33	1.52	1.33
5	7-Y	338	GLU	C-N	13.33	1.52	1.33
5	8-Y	338	GLU	C-N	13.33	1.52	1.33
6	1-N	412	GLU	C-N	-13.32	1.16	1.33
6	2-N	412	GLU	C-N	-13.32	1.16	1.33
6	3-N	412	GLU	C-N	-13.32	1.16	1.33
6	4-N	412	GLU	C-N	-13.32	1.16	1.33
6	5-N	412	GLU	C-N	-13.32	1.16	1.33
6	6-N	412	GLU	C-N	-13.32	1.16	1.33
6	7-N	412	GLU	C-N	-13.32	1.16	1.33
6	8-N	412	GLU	C-N	-13.32	1.16	1.33
4	1-L	424	PRO	CA-C	-13.32	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	424	PRO	CA-C	-13.32	1.33	1.52
4	3-L	424	PRO	CA-C	-13.32	1.33	1.52
4	4-L	424	PRO	CA-C	-13.32	1.33	1.52
4	5-L	424	PRO	CA-C	-13.32	1.33	1.52
4	6-L	424	PRO	CA-C	-13.32	1.33	1.52
4	7-L	424	PRO	CA-C	-13.32	1.33	1.52
4	8-L	424	PRO	CA-C	-13.32	1.33	1.52
4	1-X	424	PRO	CA-C	-13.32	1.33	1.52
4	2-X	424	PRO	CA-C	-13.32	1.33	1.52
4	3-X	424	PRO	CA-C	-13.32	1.33	1.52
4	4-X	424	PRO	CA-C	-13.32	1.33	1.52
4	5-X	424	PRO	CA-C	-13.32	1.33	1.52
4	6-X	424	PRO	CA-C	-13.32	1.33	1.52
4	7-X	424	PRO	CA-C	-13.32	1.33	1.52
4	8-X	424	PRO	CA-C	-13.32	1.33	1.52
4	1-F	424	PRO	CA-C	-13.31	1.33	1.52
4	2-F	424	PRO	CA-C	-13.31	1.33	1.52
4	3-F	424	PRO	CA-C	-13.31	1.33	1.52
4	4-F	424	PRO	CA-C	-13.31	1.33	1.52
4	5-F	424	PRO	CA-C	-13.31	1.33	1.52
4	6-F	424	PRO	CA-C	-13.31	1.33	1.52
4	7-F	424	PRO	CA-C	-13.31	1.33	1.52
4	8-F	424	PRO	CA-C	-13.31	1.33	1.52
5	1-S	338	GLU	C-N	13.30	1.52	1.33
5	2-S	338	GLU	C-N	13.30	1.52	1.33
5	3-S	338	GLU	C-N	13.30	1.52	1.33
5	4-S	338	GLU	C-N	13.30	1.52	1.33
5	5-S	338	GLU	C-N	13.30	1.52	1.33
5	6-S	338	GLU	C-N	13.30	1.52	1.33
5	7-S	338	GLU	C-N	13.30	1.52	1.33
5	8-S	338	GLU	C-N	13.30	1.52	1.33
3	1-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	1-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	2-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	2-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	3-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	3-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	4-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	4-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	5-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	5-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	6-J	1488	GLY	CA-C	-13.23	1.35	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	7-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	7-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	8-J	1488	GLY	CA-C	-13.23	1.35	1.51
3	8-V	1488	GLY	CA-C	-13.23	1.35	1.51
3	1-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	2-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	3-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	4-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	5-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	6-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	7-D	1488	GLY	CA-C	-13.21	1.35	1.51
3	8-D	1488	GLY	CA-C	-13.21	1.35	1.51
4	1-R	449	SER	C-N	13.20	1.52	1.33
4	2-R	449	SER	C-N	13.20	1.52	1.33
4	3-R	449	SER	C-N	13.20	1.52	1.33
4	4-R	449	SER	C-N	13.20	1.52	1.33
4	5-R	449	SER	C-N	13.20	1.52	1.33
4	6-R	449	SER	C-N	13.20	1.52	1.33
4	7-R	449	SER	C-N	13.20	1.52	1.33
4	8-R	449	SER	C-N	13.20	1.52	1.33
3	1-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	2-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	3-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	4-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	5-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	6-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	7-P	1488	GLY	CA-C	-13.19	1.35	1.51
3	8-P	1488	GLY	CA-C	-13.19	1.35	1.51
4	1-X	449	SER	C-N	13.18	1.52	1.33
4	2-X	449	SER	C-N	13.18	1.52	1.33
4	3-X	449	SER	C-N	13.18	1.52	1.33
4	4-X	449	SER	C-N	13.18	1.52	1.33
4	5-X	449	SER	C-N	13.18	1.52	1.33
4	6-X	449	SER	C-N	13.18	1.52	1.33
4	7-X	449	SER	C-N	13.18	1.52	1.33
4	8-X	449	SER	C-N	13.18	1.52	1.33
4	1-L	449	SER	C-N	13.17	1.52	1.33
4	2-L	449	SER	C-N	13.17	1.52	1.33
4	3-L	449	SER	C-N	13.17	1.52	1.33
4	4-L	449	SER	C-N	13.17	1.52	1.33
4	5-L	449	SER	C-N	13.17	1.52	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	449	SER	C-N	13.17	1.52	1.33
4	7-L	449	SER	C-N	13.17	1.52	1.33
4	8-L	449	SER	C-N	13.17	1.52	1.33
6	1-T	495	LEU	N-CA	-13.17	1.29	1.46
6	2-T	495	LEU	N-CA	-13.17	1.29	1.46
6	3-T	495	LEU	N-CA	-13.17	1.29	1.46
6	4-T	495	LEU	N-CA	-13.17	1.29	1.46
6	5-T	495	LEU	N-CA	-13.17	1.29	1.46
6	6-T	495	LEU	N-CA	-13.17	1.29	1.46
6	7-T	495	LEU	N-CA	-13.17	1.29	1.46
6	8-T	495	LEU	N-CA	-13.17	1.29	1.46
6	1-H	495	LEU	N-CA	-13.16	1.30	1.46
6	2-H	495	LEU	N-CA	-13.16	1.30	1.46
6	3-H	495	LEU	N-CA	-13.16	1.30	1.46
6	4-H	495	LEU	N-CA	-13.16	1.30	1.46
6	5-H	495	LEU	N-CA	-13.16	1.30	1.46
6	6-H	495	LEU	N-CA	-13.16	1.30	1.46
6	7-H	495	LEU	N-CA	-13.16	1.30	1.46
6	8-H	495	LEU	N-CA	-13.16	1.30	1.46
4	1-F	449	SER	C-N	13.16	1.52	1.33
4	2-F	449	SER	C-N	13.16	1.52	1.33
4	3-F	449	SER	C-N	13.16	1.52	1.33
4	4-F	449	SER	C-N	13.16	1.52	1.33
4	5-F	449	SER	C-N	13.16	1.52	1.33
4	6-F	449	SER	C-N	13.16	1.52	1.33
4	7-F	449	SER	C-N	13.16	1.52	1.33
4	8-F	449	SER	C-N	13.16	1.52	1.33
6	1-N	495	LEU	N-CA	-13.14	1.30	1.46
6	1-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	2-N	495	LEU	N-CA	-13.14	1.30	1.46
6	2-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	3-N	495	LEU	N-CA	-13.14	1.30	1.46
6	3-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	4-N	495	LEU	N-CA	-13.14	1.30	1.46
6	4-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	5-N	495	LEU	N-CA	-13.14	1.30	1.46
6	5-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	6-N	495	LEU	N-CA	-13.14	1.30	1.46
6	6-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	7-N	495	LEU	N-CA	-13.14	1.30	1.46
6	7-Z	495	LEU	N-CA	-13.14	1.30	1.46
6	8-N	495	LEU	N-CA	-13.14	1.30	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	495	LEU	N-CA	-13.14	1.30	1.46
5	1-Y	313	ILE	N-CA	13.12	1.61	1.46
5	2-Y	313	ILE	N-CA	13.12	1.61	1.46
5	3-Y	313	ILE	N-CA	13.12	1.61	1.46
5	4-Y	313	ILE	N-CA	13.12	1.61	1.46
5	5-Y	313	ILE	N-CA	13.12	1.61	1.46
5	6-Y	313	ILE	N-CA	13.12	1.61	1.46
5	7-Y	313	ILE	N-CA	13.12	1.61	1.46
5	8-Y	313	ILE	N-CA	13.12	1.61	1.46
5	1-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	2-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	3-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	4-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	5-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	6-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	7-G	339	TYR	CA-CB	-13.12	1.35	1.52
5	8-G	339	TYR	CA-CB	-13.12	1.35	1.52
4	1-F	343	MET	CA-C	13.10	1.69	1.52
6	1-N	370	GLU	CA-C	13.10	1.69	1.52
4	2-F	343	MET	CA-C	13.10	1.69	1.52
6	2-N	370	GLU	CA-C	13.10	1.69	1.52
4	3-F	343	MET	CA-C	13.10	1.69	1.52
6	3-N	370	GLU	CA-C	13.10	1.69	1.52
4	4-F	343	MET	CA-C	13.10	1.69	1.52
6	4-N	370	GLU	CA-C	13.10	1.69	1.52
4	5-F	343	MET	CA-C	13.10	1.69	1.52
6	5-N	370	GLU	CA-C	13.10	1.69	1.52
4	6-F	343	MET	CA-C	13.10	1.69	1.52
6	6-N	370	GLU	CA-C	13.10	1.69	1.52
4	7-F	343	MET	CA-C	13.10	1.69	1.52
6	7-N	370	GLU	CA-C	13.10	1.69	1.52
4	8-F	343	MET	CA-C	13.10	1.69	1.52
6	8-N	370	GLU	CA-C	13.10	1.69	1.52
5	1-G	313	ILE	N-CA	13.09	1.61	1.46
5	1-M	313	ILE	N-CA	13.09	1.61	1.46
5	1-S	339	TYR	CA-CB	-13.09	1.35	1.52
5	2-G	313	ILE	N-CA	13.09	1.61	1.46
5	3-G	313	ILE	N-CA	13.09	1.61	1.46
5	2-M	313	ILE	N-CA	13.09	1.61	1.46
5	2-S	339	TYR	CA-CB	-13.09	1.35	1.52
5	3-M	313	ILE	N-CA	13.09	1.61	1.46
5	3-S	339	TYR	CA-CB	-13.09	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-G	313	ILE	N-CA	13.09	1.61	1.46
5	5-G	313	ILE	N-CA	13.09	1.61	1.46
5	4-M	313	ILE	N-CA	13.09	1.61	1.46
5	4-S	339	TYR	CA-CB	-13.09	1.35	1.52
5	5-M	313	ILE	N-CA	13.09	1.61	1.46
5	5-S	339	TYR	CA-CB	-13.09	1.35	1.52
5	6-G	313	ILE	N-CA	13.09	1.61	1.46
5	7-G	313	ILE	N-CA	13.09	1.61	1.46
5	6-M	313	ILE	N-CA	13.09	1.61	1.46
5	6-S	339	TYR	CA-CB	-13.09	1.35	1.52
5	7-M	313	ILE	N-CA	13.09	1.61	1.46
5	7-S	339	TYR	CA-CB	-13.09	1.35	1.52
5	8-G	313	ILE	N-CA	13.09	1.61	1.46
5	8-M	313	ILE	N-CA	13.09	1.61	1.46
5	8-S	339	TYR	CA-CB	-13.09	1.35	1.52
4	1-R	343	MET	CA-C	13.09	1.69	1.52
4	2-R	343	MET	CA-C	13.09	1.69	1.52
4	3-R	343	MET	CA-C	13.09	1.69	1.52
4	4-R	343	MET	CA-C	13.09	1.69	1.52
4	5-R	343	MET	CA-C	13.09	1.69	1.52
4	6-R	343	MET	CA-C	13.09	1.69	1.52
4	7-R	343	MET	CA-C	13.09	1.69	1.52
4	8-R	343	MET	CA-C	13.09	1.69	1.52
5	1-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	2-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	3-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	4-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	5-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	6-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	7-Y	339	TYR	CA-CB	-13.08	1.35	1.52
5	8-Y	339	TYR	CA-CB	-13.08	1.35	1.52
4	1-L	343	MET	CA-C	13.07	1.69	1.52
4	2-L	343	MET	CA-C	13.07	1.69	1.52
4	3-L	343	MET	CA-C	13.07	1.69	1.52
4	4-L	343	MET	CA-C	13.07	1.69	1.52
4	5-L	343	MET	CA-C	13.07	1.69	1.52
4	6-L	343	MET	CA-C	13.07	1.69	1.52
4	7-L	343	MET	CA-C	13.07	1.69	1.52
4	8-L	343	MET	CA-C	13.07	1.69	1.52
5	1-M	339	TYR	CA-CB	-13.07	1.35	1.52
5	2-M	339	TYR	CA-CB	-13.07	1.35	1.52
5	3-M	339	TYR	CA-CB	-13.07	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	339	TYR	CA-CB	-13.07	1.35	1.52
5	5-M	339	TYR	CA-CB	-13.07	1.35	1.52
5	6-M	339	TYR	CA-CB	-13.07	1.35	1.52
5	7-M	339	TYR	CA-CB	-13.07	1.35	1.52
5	8-M	339	TYR	CA-CB	-13.07	1.35	1.52
4	1-X	343	MET	CA-C	13.06	1.69	1.52
4	2-X	343	MET	CA-C	13.06	1.69	1.52
4	3-X	343	MET	CA-C	13.06	1.69	1.52
4	4-X	343	MET	CA-C	13.06	1.69	1.52
4	5-X	343	MET	CA-C	13.06	1.69	1.52
4	6-X	343	MET	CA-C	13.06	1.69	1.52
4	7-X	343	MET	CA-C	13.06	1.69	1.52
4	8-X	343	MET	CA-C	13.06	1.69	1.52
6	1-T	370	GLU	CA-C	13.05	1.69	1.52
6	2-T	370	GLU	CA-C	13.05	1.69	1.52
6	3-T	370	GLU	CA-C	13.05	1.69	1.52
6	4-T	370	GLU	CA-C	13.05	1.69	1.52
6	5-T	370	GLU	CA-C	13.05	1.69	1.52
6	6-T	370	GLU	CA-C	13.05	1.69	1.52
6	7-T	370	GLU	CA-C	13.05	1.69	1.52
6	8-T	370	GLU	CA-C	13.05	1.69	1.52
6	1-H	370	GLU	CA-C	13.04	1.69	1.52
6	1-Z	370	GLU	CA-C	13.04	1.69	1.52
6	2-H	370	GLU	CA-C	13.04	1.69	1.52
6	2-Z	370	GLU	CA-C	13.04	1.69	1.52
6	3-H	370	GLU	CA-C	13.04	1.69	1.52
6	3-Z	370	GLU	CA-C	13.04	1.69	1.52
6	4-H	370	GLU	CA-C	13.04	1.69	1.52
6	4-Z	370	GLU	CA-C	13.04	1.69	1.52
6	5-H	370	GLU	CA-C	13.04	1.69	1.52
6	5-Z	370	GLU	CA-C	13.04	1.69	1.52
6	6-H	370	GLU	CA-C	13.04	1.69	1.52
6	6-Z	370	GLU	CA-C	13.04	1.69	1.52
6	7-H	370	GLU	CA-C	13.04	1.69	1.52
6	7-Z	370	GLU	CA-C	13.04	1.69	1.52
6	8-H	370	GLU	CA-C	13.04	1.69	1.52
6	8-Z	370	GLU	CA-C	13.04	1.69	1.52
6	1-Z	414	VAL	CA-CB	13.03	1.71	1.54
6	2-Z	414	VAL	CA-CB	13.03	1.71	1.54
6	3-Z	414	VAL	CA-CB	13.03	1.71	1.54
6	4-Z	414	VAL	CA-CB	13.03	1.71	1.54
6	5-Z	414	VAL	CA-CB	13.03	1.71	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-Z	414	VAL	CA-CB	13.03	1.71	1.54
6	7-Z	414	VAL	CA-CB	13.03	1.71	1.54
6	8-Z	414	VAL	CA-CB	13.03	1.71	1.54
4	1-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	2-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	3-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	4-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	5-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	6-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	7-R	461	ARG	CA-CB	-13.03	1.31	1.53
4	8-R	461	ARG	CA-CB	-13.03	1.31	1.53
5	1-S	313	ILE	N-CA	13.02	1.61	1.46
5	2-S	313	ILE	N-CA	13.02	1.61	1.46
5	3-S	313	ILE	N-CA	13.02	1.61	1.46
5	4-S	313	ILE	N-CA	13.02	1.61	1.46
5	5-S	313	ILE	N-CA	13.02	1.61	1.46
5	6-S	313	ILE	N-CA	13.02	1.61	1.46
5	7-S	313	ILE	N-CA	13.02	1.61	1.46
5	8-S	313	ILE	N-CA	13.02	1.61	1.46
4	1-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	2-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	3-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	4-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	5-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	6-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	7-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	8-F	461	ARG	CA-CB	-13.01	1.31	1.53
4	1-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	2-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	3-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	4-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	5-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	6-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	7-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	8-X	461	ARG	CA-CB	-13.00	1.31	1.53
4	1-L	452	ARG	C-O	12.98	1.40	1.24
4	2-L	452	ARG	C-O	12.98	1.40	1.24
4	3-L	452	ARG	C-O	12.98	1.40	1.24
4	4-L	452	ARG	C-O	12.98	1.40	1.24
4	5-L	452	ARG	C-O	12.98	1.40	1.24
4	6-L	452	ARG	C-O	12.98	1.40	1.24
4	7-L	452	ARG	C-O	12.98	1.40	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	452	ARG	C-O	12.98	1.40	1.24
6	1-H	414	VAL	CA-CB	12.98	1.71	1.54
6	2-H	414	VAL	CA-CB	12.98	1.71	1.54
6	3-H	414	VAL	CA-CB	12.98	1.71	1.54
6	4-H	414	VAL	CA-CB	12.98	1.71	1.54
6	5-H	414	VAL	CA-CB	12.98	1.71	1.54
6	6-H	414	VAL	CA-CB	12.98	1.71	1.54
6	7-H	414	VAL	CA-CB	12.98	1.71	1.54
6	8-H	414	VAL	CA-CB	12.98	1.71	1.54
4	1-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	2-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	3-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	4-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	5-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	6-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	7-L	461	ARG	CA-CB	-12.97	1.31	1.53
4	8-L	461	ARG	CA-CB	-12.97	1.31	1.53
6	1-T	414	VAL	CA-CB	12.96	1.71	1.54
4	1-X	452	ARG	C-O	12.96	1.40	1.24
6	2-T	414	VAL	CA-CB	12.96	1.71	1.54
4	2-X	452	ARG	C-O	12.96	1.40	1.24
6	3-T	414	VAL	CA-CB	12.96	1.71	1.54
4	3-X	452	ARG	C-O	12.96	1.40	1.24
6	4-T	414	VAL	CA-CB	12.96	1.71	1.54
4	4-X	452	ARG	C-O	12.96	1.40	1.24
6	5-T	414	VAL	CA-CB	12.96	1.71	1.54
4	5-X	452	ARG	C-O	12.96	1.40	1.24
6	6-T	414	VAL	CA-CB	12.96	1.71	1.54
4	6-X	452	ARG	C-O	12.96	1.40	1.24
6	7-T	414	VAL	CA-CB	12.96	1.71	1.54
4	7-X	452	ARG	C-O	12.96	1.40	1.24
6	8-T	414	VAL	CA-CB	12.96	1.71	1.54
4	8-X	452	ARG	C-O	12.96	1.40	1.24
6	1-N	414	VAL	CA-CB	12.95	1.71	1.54
6	2-N	414	VAL	CA-CB	12.95	1.71	1.54
6	3-N	414	VAL	CA-CB	12.95	1.71	1.54
6	4-N	414	VAL	CA-CB	12.95	1.71	1.54
6	5-N	414	VAL	CA-CB	12.95	1.71	1.54
6	6-N	414	VAL	CA-CB	12.95	1.71	1.54
6	7-N	414	VAL	CA-CB	12.95	1.71	1.54
6	8-N	414	VAL	CA-CB	12.95	1.71	1.54
4	1-L	432	ASN	N-CA	-12.94	1.29	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	432	ASN	N-CA	-12.94	1.29	1.46
4	3-L	432	ASN	N-CA	-12.94	1.29	1.46
4	4-L	432	ASN	N-CA	-12.94	1.29	1.46
4	5-L	432	ASN	N-CA	-12.94	1.29	1.46
4	6-L	432	ASN	N-CA	-12.94	1.29	1.46
4	7-L	432	ASN	N-CA	-12.94	1.29	1.46
4	8-L	432	ASN	N-CA	-12.94	1.29	1.46
4	1-F	452	ARG	C-O	12.94	1.40	1.24
4	2-F	452	ARG	C-O	12.94	1.40	1.24
4	3-F	452	ARG	C-O	12.94	1.40	1.24
4	4-F	452	ARG	C-O	12.94	1.40	1.24
4	5-F	452	ARG	C-O	12.94	1.40	1.24
4	6-F	452	ARG	C-O	12.94	1.40	1.24
4	7-F	452	ARG	C-O	12.94	1.40	1.24
4	8-F	452	ARG	C-O	12.94	1.40	1.24
4	1-R	452	ARG	C-O	12.94	1.40	1.24
4	2-R	452	ARG	C-O	12.94	1.40	1.24
4	3-R	452	ARG	C-O	12.94	1.40	1.24
4	4-R	452	ARG	C-O	12.94	1.40	1.24
4	5-R	452	ARG	C-O	12.94	1.40	1.24
4	6-R	452	ARG	C-O	12.94	1.40	1.24
4	7-R	452	ARG	C-O	12.94	1.40	1.24
4	8-R	452	ARG	C-O	12.94	1.40	1.24
6	1-N	410	LEU	C-N	12.91	1.51	1.33
6	2-N	410	LEU	C-N	12.91	1.51	1.33
6	3-N	410	LEU	C-N	12.91	1.51	1.33
6	4-N	410	LEU	C-N	12.91	1.51	1.33
6	5-N	410	LEU	C-N	12.91	1.51	1.33
6	6-N	410	LEU	C-N	12.91	1.51	1.33
6	7-N	410	LEU	C-N	12.91	1.51	1.33
6	8-N	410	LEU	C-N	12.91	1.51	1.33
6	1-H	410	LEU	C-N	12.91	1.51	1.33
6	2-H	410	LEU	C-N	12.91	1.51	1.33
6	3-H	410	LEU	C-N	12.91	1.51	1.33
6	4-H	410	LEU	C-N	12.91	1.51	1.33
6	5-H	410	LEU	C-N	12.91	1.51	1.33
6	6-H	410	LEU	C-N	12.91	1.51	1.33
6	7-H	410	LEU	C-N	12.91	1.51	1.33
6	8-H	410	LEU	C-N	12.91	1.51	1.33
4	1-F	432	ASN	N-CA	-12.91	1.29	1.46
4	2-F	432	ASN	N-CA	-12.91	1.29	1.46
4	3-F	432	ASN	N-CA	-12.91	1.29	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	432	ASN	N-CA	-12.91	1.29	1.46
4	5-F	432	ASN	N-CA	-12.91	1.29	1.46
4	6-F	432	ASN	N-CA	-12.91	1.29	1.46
4	7-F	432	ASN	N-CA	-12.91	1.29	1.46
4	8-F	432	ASN	N-CA	-12.91	1.29	1.46
4	1-X	432	ASN	N-CA	-12.89	1.29	1.46
4	2-X	432	ASN	N-CA	-12.89	1.29	1.46
4	3-X	432	ASN	N-CA	-12.89	1.29	1.46
4	4-X	432	ASN	N-CA	-12.89	1.29	1.46
4	5-X	432	ASN	N-CA	-12.89	1.29	1.46
4	6-X	432	ASN	N-CA	-12.89	1.29	1.46
4	7-X	432	ASN	N-CA	-12.89	1.29	1.46
4	8-X	432	ASN	N-CA	-12.89	1.29	1.46
4	1-R	432	ASN	N-CA	-12.89	1.29	1.46
4	2-R	432	ASN	N-CA	-12.89	1.29	1.46
4	3-R	432	ASN	N-CA	-12.89	1.29	1.46
4	4-R	432	ASN	N-CA	-12.89	1.29	1.46
4	5-R	432	ASN	N-CA	-12.89	1.29	1.46
4	6-R	432	ASN	N-CA	-12.89	1.29	1.46
4	7-R	432	ASN	N-CA	-12.89	1.29	1.46
4	8-R	432	ASN	N-CA	-12.89	1.29	1.46
6	1-T	410	LEU	C-N	12.87	1.51	1.33
6	2-T	410	LEU	C-N	12.87	1.51	1.33
6	3-T	410	LEU	C-N	12.87	1.51	1.33
6	4-T	410	LEU	C-N	12.87	1.51	1.33
6	5-T	410	LEU	C-N	12.87	1.51	1.33
6	6-T	410	LEU	C-N	12.87	1.51	1.33
6	7-T	410	LEU	C-N	12.87	1.51	1.33
6	8-T	410	LEU	C-N	12.87	1.51	1.33
6	1-Z	410	LEU	C-N	12.86	1.51	1.33
6	2-Z	410	LEU	C-N	12.86	1.51	1.33
6	3-Z	410	LEU	C-N	12.86	1.51	1.33
6	4-Z	410	LEU	C-N	12.86	1.51	1.33
6	5-Z	410	LEU	C-N	12.86	1.51	1.33
6	6-Z	410	LEU	C-N	12.86	1.51	1.33
6	7-Z	410	LEU	C-N	12.86	1.51	1.33
6	8-Z	410	LEU	C-N	12.86	1.51	1.33
4	1-F	426	GLN	CA-C	-12.85	1.36	1.52
4	2-F	426	GLN	CA-C	-12.85	1.36	1.52
4	3-F	426	GLN	CA-C	-12.85	1.36	1.52
4	4-F	426	GLN	CA-C	-12.85	1.36	1.52
4	5-F	426	GLN	CA-C	-12.85	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	426	GLN	CA-C	-12.85	1.36	1.52
4	7-F	426	GLN	CA-C	-12.85	1.36	1.52
4	8-F	426	GLN	CA-C	-12.85	1.36	1.52
3	1-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	2-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	3-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	4-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	5-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	6-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	7-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	8-D	1546	LEU	CA-C	-12.84	1.35	1.52
3	1-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	2-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	3-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	4-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	5-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	6-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	7-J	1546	LEU	CA-C	-12.83	1.35	1.52
3	8-J	1546	LEU	CA-C	-12.83	1.35	1.52
4	1-R	426	GLN	CA-C	-12.82	1.36	1.52
3	1-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	2-R	426	GLN	CA-C	-12.82	1.36	1.52
3	2-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	3-R	426	GLN	CA-C	-12.82	1.36	1.52
3	3-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	4-R	426	GLN	CA-C	-12.82	1.36	1.52
3	4-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	5-R	426	GLN	CA-C	-12.82	1.36	1.52
3	5-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	6-R	426	GLN	CA-C	-12.82	1.36	1.52
3	6-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	7-R	426	GLN	CA-C	-12.82	1.36	1.52
3	7-V	1546	LEU	CA-C	-12.82	1.35	1.52
4	8-R	426	GLN	CA-C	-12.82	1.36	1.52
3	8-V	1546	LEU	CA-C	-12.82	1.35	1.52
3	1-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	1-X	426	GLN	CA-C	-12.81	1.36	1.52
3	2-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	2-X	426	GLN	CA-C	-12.81	1.36	1.52
3	3-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	3-X	426	GLN	CA-C	-12.81	1.36	1.52
3	4-P	1546	LEU	CA-C	-12.81	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	426	GLN	CA-C	-12.81	1.36	1.52
3	5-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	5-X	426	GLN	CA-C	-12.81	1.36	1.52
3	6-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	6-X	426	GLN	CA-C	-12.81	1.36	1.52
3	7-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	7-X	426	GLN	CA-C	-12.81	1.36	1.52
3	8-P	1546	LEU	CA-C	-12.81	1.35	1.52
4	8-X	426	GLN	CA-C	-12.81	1.36	1.52
4	1-L	426	GLN	CA-C	-12.80	1.36	1.52
4	2-L	426	GLN	CA-C	-12.80	1.36	1.52
4	3-L	426	GLN	CA-C	-12.80	1.36	1.52
4	4-L	426	GLN	CA-C	-12.80	1.36	1.52
4	5-L	426	GLN	CA-C	-12.80	1.36	1.52
4	6-L	426	GLN	CA-C	-12.80	1.36	1.52
4	7-L	426	GLN	CA-C	-12.80	1.36	1.52
4	8-L	426	GLN	CA-C	-12.80	1.36	1.52
3	1-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	2-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	3-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	4-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	5-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	6-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	7-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	8-D	1520	GLY	CA-C	-12.77	1.33	1.51
3	1-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	2-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	3-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	4-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	5-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	6-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	7-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	8-V	1520	GLY	CA-C	-12.76	1.33	1.51
3	1-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	2-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	3-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	4-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	5-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	6-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	7-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	8-P	1520	GLY	CA-C	-12.75	1.33	1.51
3	1-J	1520	GLY	CA-C	-12.75	1.33	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	2-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	2-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	3-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	3-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	4-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	4-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	5-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	5-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	6-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	6-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	7-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	7-T	409	PRO	CA-CB	-12.75	1.35	1.53
3	8-J	1520	GLY	CA-C	-12.75	1.33	1.51
6	8-T	409	PRO	CA-CB	-12.75	1.35	1.53
4	1-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	2-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	3-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	4-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	5-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	6-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	7-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	8-R	311	GLN	CA-CB	-12.74	1.32	1.53
4	1-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	1-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	2-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	2-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	3-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	3-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	4-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	4-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	5-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	5-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	6-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	6-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	7-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	7-H	409	PRO	CA-CB	-12.74	1.35	1.53
4	8-F	311	GLN	CA-CB	-12.74	1.32	1.53
6	8-H	409	PRO	CA-CB	-12.74	1.35	1.53
6	1-N	409	PRO	CA-CB	-12.72	1.35	1.53
6	2-N	409	PRO	CA-CB	-12.72	1.35	1.53
6	3-N	409	PRO	CA-CB	-12.72	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-N	409	PRO	CA-CB	-12.72	1.35	1.53
6	5-N	409	PRO	CA-CB	-12.72	1.35	1.53
6	6-N	409	PRO	CA-CB	-12.72	1.35	1.53
6	7-N	409	PRO	CA-CB	-12.72	1.35	1.53
6	8-N	409	PRO	CA-CB	-12.72	1.35	1.53
4	1-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	2-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	3-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	4-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	5-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	6-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	7-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	8-X	311	GLN	CA-CB	-12.72	1.32	1.53
4	1-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	2-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	3-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	4-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	5-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	6-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	7-L	311	GLN	CA-CB	-12.71	1.32	1.53
4	8-L	311	GLN	CA-CB	-12.71	1.32	1.53
6	1-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	2-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	3-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	4-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	5-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	6-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	7-Z	409	PRO	CA-CB	-12.71	1.35	1.53
6	8-Z	409	PRO	CA-CB	-12.71	1.35	1.53
3	1-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	2-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	3-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	4-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	5-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	6-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	7-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	8-J	1507	ASP	N-CA	-12.66	1.30	1.46
3	1-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	2-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	3-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	4-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	5-D	1507	ASP	N-CA	-12.61	1.30	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	7-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	8-D	1507	ASP	N-CA	-12.61	1.30	1.46
3	1-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	2-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	3-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	4-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	5-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	6-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	7-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	8-V	1507	ASP	N-CA	-12.61	1.30	1.46
3	1-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	2-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	3-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	4-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	5-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	6-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	7-P	1507	ASP	N-CA	-12.60	1.30	1.46
3	8-P	1507	ASP	N-CA	-12.60	1.30	1.46
5	1-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	2-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	3-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	4-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	5-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	6-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	7-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	8-Y	366	GLU	CA-C	-12.54	1.35	1.52
5	1-M	366	GLU	CA-C	-12.54	1.35	1.52
5	2-M	366	GLU	CA-C	-12.54	1.35	1.52
5	3-M	366	GLU	CA-C	-12.54	1.35	1.52
5	4-M	366	GLU	CA-C	-12.54	1.35	1.52
5	5-M	366	GLU	CA-C	-12.54	1.35	1.52
5	6-M	366	GLU	CA-C	-12.54	1.35	1.52
5	7-M	366	GLU	CA-C	-12.54	1.35	1.52
5	8-M	366	GLU	CA-C	-12.54	1.35	1.52
5	1-S	366	GLU	CA-C	-12.51	1.35	1.52
5	2-S	366	GLU	CA-C	-12.51	1.35	1.52
5	3-S	366	GLU	CA-C	-12.51	1.35	1.52
5	4-S	366	GLU	CA-C	-12.51	1.35	1.52
5	5-S	366	GLU	CA-C	-12.51	1.35	1.52
5	6-S	366	GLU	CA-C	-12.51	1.35	1.52
5	7-S	366	GLU	CA-C	-12.51	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	366	GLU	CA-C	-12.51	1.35	1.52
3	1-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	2-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	3-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	4-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	5-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	6-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	7-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	8-J	1474	GLY	CA-C	-12.50	1.37	1.51
3	1-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	1-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	2-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	2-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	3-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	3-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	4-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	4-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	5-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	5-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	6-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	6-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	7-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	7-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	8-V	1474	GLY	CA-C	-12.46	1.37	1.51
3	8-V	1512	TRP	CA-C	-12.46	1.36	1.52
3	1-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	2-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	3-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	4-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	5-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	6-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	7-D	1474	GLY	CA-C	-12.45	1.37	1.51
3	8-D	1474	GLY	CA-C	-12.45	1.37	1.51
5	1-G	366	GLU	CA-C	-12.45	1.35	1.52
5	2-G	366	GLU	CA-C	-12.45	1.35	1.52
5	3-G	366	GLU	CA-C	-12.45	1.35	1.52
5	4-G	366	GLU	CA-C	-12.45	1.35	1.52
5	5-G	366	GLU	CA-C	-12.45	1.35	1.52
5	6-G	366	GLU	CA-C	-12.45	1.35	1.52
5	7-G	366	GLU	CA-C	-12.45	1.35	1.52
5	8-G	366	GLU	CA-C	-12.45	1.35	1.52
3	1-V	1516	LEU	CA-C	-12.44	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-V	1516	LEU	CA-C	-12.44	1.36	1.52
3	3-V	1516	LEU	CA-C	-12.44	1.36	1.52
3	4-V	1516	LEU	CA-C	-12.44	1.36	1.52
3	5-V	1516	LEU	CA-C	-12.44	1.36	1.52
3	6-V	1516	LEU	CA-C	-12.44	1.36	1.52
3	7-V	1516	LEU	CA-C	-12.44	1.36	1.52
3	8-V	1516	LEU	CA-C	-12.44	1.36	1.52
6	1-H	493	ALA	CA-C	12.44	1.70	1.52
6	2-H	493	ALA	CA-C	12.44	1.70	1.52
6	3-H	493	ALA	CA-C	12.44	1.70	1.52
6	4-H	493	ALA	CA-C	12.44	1.70	1.52
6	5-H	493	ALA	CA-C	12.44	1.70	1.52
6	6-H	493	ALA	CA-C	12.44	1.70	1.52
6	7-H	493	ALA	CA-C	12.44	1.70	1.52
6	8-H	493	ALA	CA-C	12.44	1.70	1.52
3	1-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	2-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	3-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	4-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	5-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	6-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	7-P	1516	LEU	CA-C	-12.43	1.36	1.52
3	8-P	1516	LEU	CA-C	-12.43	1.36	1.52
6	1-N	493	ALA	CA-C	12.41	1.70	1.52
6	2-N	493	ALA	CA-C	12.41	1.70	1.52
6	3-N	493	ALA	CA-C	12.41	1.70	1.52
6	4-N	493	ALA	CA-C	12.41	1.70	1.52
6	5-N	493	ALA	CA-C	12.41	1.70	1.52
6	6-N	493	ALA	CA-C	12.41	1.70	1.52
6	7-N	493	ALA	CA-C	12.41	1.70	1.52
6	8-N	493	ALA	CA-C	12.41	1.70	1.52
3	1-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	1-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	2-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	2-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	3-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	3-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	4-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	4-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	5-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	5-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	6-D	1512	TRP	CA-C	-12.41	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	7-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	7-P	1474	GLY	CA-C	-12.41	1.37	1.51
3	8-D	1512	TRP	CA-C	-12.41	1.36	1.52
3	8-P	1474	GLY	CA-C	-12.41	1.37	1.51
6	1-H	408	SER	N-CA	-12.40	1.28	1.46
3	1-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	2-H	408	SER	N-CA	-12.40	1.28	1.46
3	2-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	3-H	408	SER	N-CA	-12.40	1.28	1.46
3	3-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	4-H	408	SER	N-CA	-12.40	1.28	1.46
3	4-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	5-H	408	SER	N-CA	-12.40	1.28	1.46
3	5-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	6-H	408	SER	N-CA	-12.40	1.28	1.46
3	6-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	7-H	408	SER	N-CA	-12.40	1.28	1.46
3	7-J	1516	LEU	CA-C	-12.40	1.36	1.52
6	8-H	408	SER	N-CA	-12.40	1.28	1.46
3	8-J	1516	LEU	CA-C	-12.40	1.36	1.52
3	1-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	1-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	2-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	2-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	3-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	3-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	4-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	4-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	5-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	5-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	6-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	6-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	7-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	7-J	1512	TRP	CA-C	-12.38	1.36	1.52
3	8-D	1516	LEU	CA-C	-12.38	1.36	1.52
3	8-J	1512	TRP	CA-C	-12.38	1.36	1.52
6	1-N	408	SER	N-CA	-12.38	1.28	1.46
6	2-N	408	SER	N-CA	-12.38	1.28	1.46
6	3-N	408	SER	N-CA	-12.38	1.28	1.46
6	4-N	408	SER	N-CA	-12.38	1.28	1.46
6	5-N	408	SER	N-CA	-12.38	1.28	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-N	408	SER	N-CA	-12.38	1.28	1.46
6	7-N	408	SER	N-CA	-12.38	1.28	1.46
6	8-N	408	SER	N-CA	-12.38	1.28	1.46
6	1-T	493	ALA	CA-C	12.37	1.70	1.52
6	2-T	493	ALA	CA-C	12.37	1.70	1.52
6	3-T	493	ALA	CA-C	12.37	1.70	1.52
6	4-T	493	ALA	CA-C	12.37	1.70	1.52
6	5-T	493	ALA	CA-C	12.37	1.70	1.52
6	6-T	493	ALA	CA-C	12.37	1.70	1.52
6	7-T	493	ALA	CA-C	12.37	1.70	1.52
6	8-T	493	ALA	CA-C	12.37	1.70	1.52
3	1-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	1-T	408	SER	N-CA	-12.37	1.28	1.46
3	2-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	2-T	408	SER	N-CA	-12.37	1.28	1.46
3	3-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	3-T	408	SER	N-CA	-12.37	1.28	1.46
3	4-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	4-T	408	SER	N-CA	-12.37	1.28	1.46
3	5-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	5-T	408	SER	N-CA	-12.37	1.28	1.46
3	6-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	6-T	408	SER	N-CA	-12.37	1.28	1.46
3	7-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	7-T	408	SER	N-CA	-12.37	1.28	1.46
3	8-P	1512	TRP	CA-C	-12.37	1.36	1.52
6	8-T	408	SER	N-CA	-12.37	1.28	1.46
6	1-Z	493	ALA	CA-C	12.36	1.70	1.52
6	2-Z	493	ALA	CA-C	12.36	1.70	1.52
6	3-Z	493	ALA	CA-C	12.36	1.70	1.52
6	4-Z	493	ALA	CA-C	12.36	1.70	1.52
6	5-Z	493	ALA	CA-C	12.36	1.70	1.52
6	6-Z	493	ALA	CA-C	12.36	1.70	1.52
6	7-Z	493	ALA	CA-C	12.36	1.70	1.52
6	8-Z	493	ALA	CA-C	12.36	1.70	1.52
6	1-Z	408	SER	N-CA	-12.36	1.28	1.46
6	2-Z	408	SER	N-CA	-12.36	1.28	1.46
6	3-Z	408	SER	N-CA	-12.36	1.28	1.46
6	4-Z	408	SER	N-CA	-12.36	1.28	1.46
6	5-Z	408	SER	N-CA	-12.36	1.28	1.46
6	6-Z	408	SER	N-CA	-12.36	1.28	1.46
6	7-Z	408	SER	N-CA	-12.36	1.28	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	408	SER	N-CA	-12.36	1.28	1.46
5	1-M	405	SER	CA-CB	-12.31	1.34	1.53
5	2-M	405	SER	CA-CB	-12.31	1.34	1.53
5	3-M	405	SER	CA-CB	-12.31	1.34	1.53
5	4-M	405	SER	CA-CB	-12.31	1.34	1.53
5	5-M	405	SER	CA-CB	-12.31	1.34	1.53
5	6-M	405	SER	CA-CB	-12.31	1.34	1.53
5	7-M	405	SER	CA-CB	-12.31	1.34	1.53
5	8-M	405	SER	CA-CB	-12.31	1.34	1.53
5	1-G	405	SER	CA-CB	-12.29	1.34	1.53
5	2-G	405	SER	CA-CB	-12.29	1.34	1.53
5	3-G	405	SER	CA-CB	-12.29	1.34	1.53
5	4-G	405	SER	CA-CB	-12.29	1.34	1.53
5	5-G	405	SER	CA-CB	-12.29	1.34	1.53
5	6-G	405	SER	CA-CB	-12.29	1.34	1.53
5	7-G	405	SER	CA-CB	-12.29	1.34	1.53
5	8-G	405	SER	CA-CB	-12.29	1.34	1.53
5	1-S	405	SER	CA-CB	-12.27	1.34	1.53
5	2-S	405	SER	CA-CB	-12.27	1.34	1.53
5	3-S	405	SER	CA-CB	-12.27	1.34	1.53
5	4-S	405	SER	CA-CB	-12.27	1.34	1.53
5	5-S	405	SER	CA-CB	-12.27	1.34	1.53
5	6-S	405	SER	CA-CB	-12.27	1.34	1.53
5	7-S	405	SER	CA-CB	-12.27	1.34	1.53
5	8-S	405	SER	CA-CB	-12.27	1.34	1.53
5	1-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	2-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	3-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	4-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	5-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	6-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	7-Y	405	SER	CA-CB	-12.26	1.34	1.53
5	8-Y	405	SER	CA-CB	-12.26	1.34	1.53
4	1-L	422	ASN	CA-C	-12.20	1.36	1.52
4	2-L	422	ASN	CA-C	-12.20	1.36	1.52
4	3-L	422	ASN	CA-C	-12.20	1.36	1.52
4	4-L	422	ASN	CA-C	-12.20	1.36	1.52
4	5-L	422	ASN	CA-C	-12.20	1.36	1.52
4	6-L	422	ASN	CA-C	-12.20	1.36	1.52
4	7-L	422	ASN	CA-C	-12.20	1.36	1.52
4	8-L	422	ASN	CA-C	-12.20	1.36	1.52
4	1-R	422	ASN	CA-C	-12.18	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	422	ASN	CA-C	-12.18	1.36	1.52
4	3-R	422	ASN	CA-C	-12.18	1.36	1.52
4	4-R	422	ASN	CA-C	-12.18	1.36	1.52
4	5-R	422	ASN	CA-C	-12.18	1.36	1.52
4	6-R	422	ASN	CA-C	-12.18	1.36	1.52
4	7-R	422	ASN	CA-C	-12.18	1.36	1.52
4	8-R	422	ASN	CA-C	-12.18	1.36	1.52
4	1-X	422	ASN	CA-C	-12.17	1.36	1.52
4	2-X	422	ASN	CA-C	-12.17	1.36	1.52
4	3-X	422	ASN	CA-C	-12.17	1.36	1.52
4	4-X	422	ASN	CA-C	-12.17	1.36	1.52
4	5-X	422	ASN	CA-C	-12.17	1.36	1.52
4	6-X	422	ASN	CA-C	-12.17	1.36	1.52
4	7-X	422	ASN	CA-C	-12.17	1.36	1.52
4	8-X	422	ASN	CA-C	-12.17	1.36	1.52
4	1-F	422	ASN	CA-C	-12.16	1.36	1.52
4	2-F	422	ASN	CA-C	-12.16	1.36	1.52
4	3-F	422	ASN	CA-C	-12.16	1.36	1.52
4	4-F	422	ASN	CA-C	-12.16	1.36	1.52
4	5-F	422	ASN	CA-C	-12.16	1.36	1.52
4	6-F	422	ASN	CA-C	-12.16	1.36	1.52
4	7-F	422	ASN	CA-C	-12.16	1.36	1.52
4	8-F	422	ASN	CA-C	-12.16	1.36	1.52
6	1-T	392	GLU	N-CA	12.11	1.61	1.46
6	2-T	392	GLU	N-CA	12.11	1.61	1.46
6	3-T	392	GLU	N-CA	12.11	1.61	1.46
6	4-T	392	GLU	N-CA	12.11	1.61	1.46
6	5-T	392	GLU	N-CA	12.11	1.61	1.46
6	6-T	392	GLU	N-CA	12.11	1.61	1.46
6	7-T	392	GLU	N-CA	12.11	1.61	1.46
6	8-T	392	GLU	N-CA	12.11	1.61	1.46
5	1-M	277	SER	N-CA	12.10	1.60	1.46
5	2-M	277	SER	N-CA	12.10	1.60	1.46
5	3-M	277	SER	N-CA	12.10	1.60	1.46
5	4-M	277	SER	N-CA	12.10	1.60	1.46
5	5-M	277	SER	N-CA	12.10	1.60	1.46
5	6-M	277	SER	N-CA	12.10	1.60	1.46
5	7-M	277	SER	N-CA	12.10	1.60	1.46
5	8-M	277	SER	N-CA	12.10	1.60	1.46
5	1-G	277	SER	N-CA	12.09	1.60	1.46
5	2-G	277	SER	N-CA	12.09	1.60	1.46
5	3-G	277	SER	N-CA	12.09	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-G	277	SER	N-CA	12.09	1.60	1.46
5	5-G	277	SER	N-CA	12.09	1.60	1.46
5	6-G	277	SER	N-CA	12.09	1.60	1.46
5	7-G	277	SER	N-CA	12.09	1.60	1.46
5	8-G	277	SER	N-CA	12.09	1.60	1.46
6	1-N	392	GLU	N-CA	12.08	1.60	1.46
6	2-N	392	GLU	N-CA	12.08	1.60	1.46
6	3-N	392	GLU	N-CA	12.08	1.60	1.46
6	4-N	392	GLU	N-CA	12.08	1.60	1.46
6	5-N	392	GLU	N-CA	12.08	1.60	1.46
6	6-N	392	GLU	N-CA	12.08	1.60	1.46
6	7-N	392	GLU	N-CA	12.08	1.60	1.46
6	8-N	392	GLU	N-CA	12.08	1.60	1.46
6	1-H	392	GLU	N-CA	12.08	1.60	1.46
6	2-H	392	GLU	N-CA	12.08	1.60	1.46
6	3-H	392	GLU	N-CA	12.08	1.60	1.46
6	4-H	392	GLU	N-CA	12.08	1.60	1.46
6	5-H	392	GLU	N-CA	12.08	1.60	1.46
6	6-H	392	GLU	N-CA	12.08	1.60	1.46
6	7-H	392	GLU	N-CA	12.08	1.60	1.46
6	8-H	392	GLU	N-CA	12.08	1.60	1.46
5	1-S	380	ILE	CA-C	12.07	1.66	1.52
5	2-S	380	ILE	CA-C	12.07	1.66	1.52
5	3-S	380	ILE	CA-C	12.07	1.66	1.52
5	4-S	380	ILE	CA-C	12.07	1.66	1.52
5	5-S	380	ILE	CA-C	12.07	1.66	1.52
5	6-S	380	ILE	CA-C	12.07	1.66	1.52
5	7-S	380	ILE	CA-C	12.07	1.66	1.52
5	8-S	380	ILE	CA-C	12.07	1.66	1.52
5	1-Y	380	ILE	CA-C	12.07	1.66	1.52
5	2-Y	380	ILE	CA-C	12.07	1.66	1.52
5	3-Y	380	ILE	CA-C	12.07	1.66	1.52
5	4-Y	380	ILE	CA-C	12.07	1.66	1.52
5	5-Y	380	ILE	CA-C	12.07	1.66	1.52
5	6-Y	380	ILE	CA-C	12.07	1.66	1.52
5	7-Y	380	ILE	CA-C	12.07	1.66	1.52
5	8-Y	380	ILE	CA-C	12.07	1.66	1.52
4	1-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	1-Y	277	SER	N-CA	12.07	1.60	1.46
4	2-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	2-Y	277	SER	N-CA	12.07	1.60	1.46
4	3-L	305	ASP	CA-CB	-12.07	1.29	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-Y	277	SER	N-CA	12.07	1.60	1.46
4	4-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	4-Y	277	SER	N-CA	12.07	1.60	1.46
4	5-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	5-Y	277	SER	N-CA	12.07	1.60	1.46
4	6-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	6-Y	277	SER	N-CA	12.07	1.60	1.46
4	7-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	7-Y	277	SER	N-CA	12.07	1.60	1.46
4	8-L	305	ASP	CA-CB	-12.07	1.29	1.53
5	8-Y	277	SER	N-CA	12.07	1.60	1.46
4	1-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	1-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	2-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	2-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	3-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	3-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	4-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	4-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	5-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	5-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	6-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	6-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	7-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	7-Y	343	ALA	N-CA	-12.07	1.30	1.46
4	8-R	305	ASP	CA-CB	-12.07	1.29	1.53
5	8-Y	343	ALA	N-CA	-12.07	1.30	1.46
5	1-S	277	SER	N-CA	12.06	1.60	1.46
5	2-S	277	SER	N-CA	12.06	1.60	1.46
5	3-S	277	SER	N-CA	12.06	1.60	1.46
5	4-S	277	SER	N-CA	12.06	1.60	1.46
5	5-S	277	SER	N-CA	12.06	1.60	1.46
5	6-S	277	SER	N-CA	12.06	1.60	1.46
5	7-S	277	SER	N-CA	12.06	1.60	1.46
5	8-S	277	SER	N-CA	12.06	1.60	1.46
4	1-X	305	ASP	CA-CB	-12.06	1.29	1.53
4	2-X	305	ASP	CA-CB	-12.06	1.29	1.53
4	3-X	305	ASP	CA-CB	-12.06	1.29	1.53
4	4-X	305	ASP	CA-CB	-12.06	1.29	1.53
4	5-X	305	ASP	CA-CB	-12.06	1.29	1.53
4	6-X	305	ASP	CA-CB	-12.06	1.29	1.53
4	7-X	305	ASP	CA-CB	-12.06	1.29	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	305	ASP	CA-CB	-12.06	1.29	1.53
6	1-Z	392	GLU	N-CA	12.05	1.60	1.46
6	2-Z	392	GLU	N-CA	12.05	1.60	1.46
6	3-Z	392	GLU	N-CA	12.05	1.60	1.46
6	4-Z	392	GLU	N-CA	12.05	1.60	1.46
6	5-Z	392	GLU	N-CA	12.05	1.60	1.46
6	6-Z	392	GLU	N-CA	12.05	1.60	1.46
6	7-Z	392	GLU	N-CA	12.05	1.60	1.46
6	8-Z	392	GLU	N-CA	12.05	1.60	1.46
4	1-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	1-M	380	ILE	CA-C	12.04	1.66	1.52
4	1-X	485	LEU	N-CA	12.04	1.63	1.46
4	2-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	2-M	380	ILE	CA-C	12.04	1.66	1.52
4	2-X	485	LEU	N-CA	12.04	1.63	1.46
4	3-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	3-M	380	ILE	CA-C	12.04	1.66	1.52
4	3-X	485	LEU	N-CA	12.04	1.63	1.46
4	4-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	4-M	380	ILE	CA-C	12.04	1.66	1.52
4	4-X	485	LEU	N-CA	12.04	1.63	1.46
4	5-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	5-M	380	ILE	CA-C	12.04	1.66	1.52
4	5-X	485	LEU	N-CA	12.04	1.63	1.46
4	6-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	6-M	380	ILE	CA-C	12.04	1.66	1.52
4	6-X	485	LEU	N-CA	12.04	1.63	1.46
4	7-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	7-M	380	ILE	CA-C	12.04	1.66	1.52
4	7-X	485	LEU	N-CA	12.04	1.63	1.46
4	8-F	305	ASP	CA-CB	-12.04	1.29	1.53
5	8-M	380	ILE	CA-C	12.04	1.66	1.52
4	8-X	485	LEU	N-CA	12.04	1.63	1.46
5	1-S	343	ALA	N-CA	-12.04	1.30	1.46
5	2-S	343	ALA	N-CA	-12.04	1.30	1.46
5	3-S	343	ALA	N-CA	-12.04	1.30	1.46
5	4-S	343	ALA	N-CA	-12.04	1.30	1.46
5	5-S	343	ALA	N-CA	-12.04	1.30	1.46
5	6-S	343	ALA	N-CA	-12.04	1.30	1.46
5	7-S	343	ALA	N-CA	-12.04	1.30	1.46
5	8-S	343	ALA	N-CA	-12.04	1.30	1.46
5	1-G	343	ALA	N-CA	-12.04	1.30	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-H	388	ARG	CA-C	-12.04	1.37	1.52
5	2-G	343	ALA	N-CA	-12.04	1.30	1.46
6	2-H	388	ARG	CA-C	-12.04	1.37	1.52
5	3-G	343	ALA	N-CA	-12.04	1.30	1.46
6	3-H	388	ARG	CA-C	-12.04	1.37	1.52
5	4-G	343	ALA	N-CA	-12.04	1.30	1.46
6	4-H	388	ARG	CA-C	-12.04	1.37	1.52
5	5-G	343	ALA	N-CA	-12.04	1.30	1.46
6	5-H	388	ARG	CA-C	-12.04	1.37	1.52
5	6-G	343	ALA	N-CA	-12.04	1.30	1.46
6	6-H	388	ARG	CA-C	-12.04	1.37	1.52
5	7-G	343	ALA	N-CA	-12.04	1.30	1.46
6	7-H	388	ARG	CA-C	-12.04	1.37	1.52
5	8-G	343	ALA	N-CA	-12.04	1.30	1.46
6	8-H	388	ARG	CA-C	-12.04	1.37	1.52
6	1-N	388	ARG	CA-C	-12.02	1.37	1.52
6	2-N	388	ARG	CA-C	-12.02	1.37	1.52
6	3-N	388	ARG	CA-C	-12.02	1.37	1.52
6	4-N	388	ARG	CA-C	-12.02	1.37	1.52
6	5-N	388	ARG	CA-C	-12.02	1.37	1.52
6	6-N	388	ARG	CA-C	-12.02	1.37	1.52
6	7-N	388	ARG	CA-C	-12.02	1.37	1.52
6	8-N	388	ARG	CA-C	-12.02	1.37	1.52
4	1-R	485	LEU	N-CA	12.01	1.63	1.46
4	2-R	485	LEU	N-CA	12.01	1.63	1.46
4	3-R	485	LEU	N-CA	12.01	1.63	1.46
4	4-R	485	LEU	N-CA	12.01	1.63	1.46
4	5-R	485	LEU	N-CA	12.01	1.63	1.46
4	6-R	485	LEU	N-CA	12.01	1.63	1.46
4	7-R	485	LEU	N-CA	12.01	1.63	1.46
4	8-R	485	LEU	N-CA	12.01	1.63	1.46
5	1-M	343	ALA	N-CA	-12.01	1.30	1.46
5	2-M	343	ALA	N-CA	-12.01	1.30	1.46
5	3-M	343	ALA	N-CA	-12.01	1.30	1.46
5	4-M	343	ALA	N-CA	-12.01	1.30	1.46
5	5-M	343	ALA	N-CA	-12.01	1.30	1.46
5	6-M	343	ALA	N-CA	-12.01	1.30	1.46
5	7-M	343	ALA	N-CA	-12.01	1.30	1.46
5	8-M	343	ALA	N-CA	-12.01	1.30	1.46
6	1-T	388	ARG	CA-C	-12.01	1.37	1.52
6	2-T	388	ARG	CA-C	-12.01	1.37	1.52
6	3-T	388	ARG	CA-C	-12.01	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	388	ARG	CA-C	-12.01	1.37	1.52
6	5-T	388	ARG	CA-C	-12.01	1.37	1.52
6	6-T	388	ARG	CA-C	-12.01	1.37	1.52
6	7-T	388	ARG	CA-C	-12.01	1.37	1.52
6	8-T	388	ARG	CA-C	-12.01	1.37	1.52
4	1-L	485	LEU	N-CA	11.99	1.63	1.46
6	1-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	2-L	485	LEU	N-CA	11.99	1.63	1.46
6	2-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	3-L	485	LEU	N-CA	11.99	1.63	1.46
6	3-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	4-L	485	LEU	N-CA	11.99	1.63	1.46
6	4-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	5-L	485	LEU	N-CA	11.99	1.63	1.46
6	5-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	6-L	485	LEU	N-CA	11.99	1.63	1.46
6	6-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	7-L	485	LEU	N-CA	11.99	1.63	1.46
6	7-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	8-L	485	LEU	N-CA	11.99	1.63	1.46
6	8-Z	388	ARG	CA-C	-11.99	1.37	1.52
4	1-F	485	LEU	N-CA	11.98	1.63	1.46
4	2-F	485	LEU	N-CA	11.98	1.63	1.46
4	3-F	485	LEU	N-CA	11.98	1.63	1.46
4	4-F	485	LEU	N-CA	11.98	1.63	1.46
4	5-F	485	LEU	N-CA	11.98	1.63	1.46
4	6-F	485	LEU	N-CA	11.98	1.63	1.46
4	7-F	485	LEU	N-CA	11.98	1.63	1.46
4	8-F	485	LEU	N-CA	11.98	1.63	1.46
4	1-R	144	LEU	CA-CB	11.94	1.73	1.53
4	2-R	144	LEU	CA-CB	11.94	1.73	1.53
4	3-R	144	LEU	CA-CB	11.94	1.73	1.53
4	4-R	144	LEU	CA-CB	11.94	1.73	1.53
4	5-R	144	LEU	CA-CB	11.94	1.73	1.53
4	6-R	144	LEU	CA-CB	11.94	1.73	1.53
4	7-R	144	LEU	CA-CB	11.94	1.73	1.53
4	8-R	144	LEU	CA-CB	11.94	1.73	1.53
4	1-L	144	LEU	CA-CB	11.92	1.73	1.53
4	2-L	144	LEU	CA-CB	11.92	1.73	1.53
4	3-L	144	LEU	CA-CB	11.92	1.73	1.53
4	4-L	144	LEU	CA-CB	11.92	1.73	1.53
4	5-L	144	LEU	CA-CB	11.92	1.73	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	144	LEU	CA-CB	11.92	1.73	1.53
4	7-L	144	LEU	CA-CB	11.92	1.73	1.53
4	8-L	144	LEU	CA-CB	11.92	1.73	1.53
4	1-F	144	LEU	CA-CB	11.92	1.73	1.53
4	1-X	144	LEU	CA-CB	11.92	1.73	1.53
4	2-F	144	LEU	CA-CB	11.92	1.73	1.53
4	2-X	144	LEU	CA-CB	11.92	1.73	1.53
4	3-F	144	LEU	CA-CB	11.92	1.73	1.53
4	3-X	144	LEU	CA-CB	11.92	1.73	1.53
4	4-F	144	LEU	CA-CB	11.92	1.73	1.53
4	4-X	144	LEU	CA-CB	11.92	1.73	1.53
4	5-F	144	LEU	CA-CB	11.92	1.73	1.53
4	5-X	144	LEU	CA-CB	11.92	1.73	1.53
4	6-F	144	LEU	CA-CB	11.92	1.73	1.53
4	6-X	144	LEU	CA-CB	11.92	1.73	1.53
4	7-F	144	LEU	CA-CB	11.92	1.73	1.53
4	7-X	144	LEU	CA-CB	11.92	1.73	1.53
4	8-F	144	LEU	CA-CB	11.92	1.73	1.53
4	8-X	144	LEU	CA-CB	11.92	1.73	1.53
2	1-C	15	GLN	N-CA	-11.89	1.31	1.46
2	2-C	15	GLN	N-CA	-11.89	1.31	1.46
2	3-C	15	GLN	N-CA	-11.89	1.31	1.46
2	4-C	15	GLN	N-CA	-11.89	1.31	1.46
2	5-C	15	GLN	N-CA	-11.89	1.31	1.46
2	6-C	15	GLN	N-CA	-11.89	1.31	1.46
2	7-C	15	GLN	N-CA	-11.89	1.31	1.46
2	8-C	15	GLN	N-CA	-11.89	1.31	1.46
3	1-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	1-U	15	GLN	N-CA	-11.88	1.31	1.46
3	2-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	2-U	15	GLN	N-CA	-11.88	1.31	1.46
3	3-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	3-U	15	GLN	N-CA	-11.88	1.31	1.46
3	4-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	4-U	15	GLN	N-CA	-11.88	1.31	1.46
3	5-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	5-U	15	GLN	N-CA	-11.88	1.31	1.46
3	6-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	6-U	15	GLN	N-CA	-11.88	1.31	1.46
3	7-P	1521	TYR	CA-C	-11.88	1.37	1.52
2	7-U	15	GLN	N-CA	-11.88	1.31	1.46
3	8-P	1521	TYR	CA-C	-11.88	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-U	15	GLN	N-CA	-11.88	1.31	1.46
3	1-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	2-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	3-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	4-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	5-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	6-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	7-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	8-V	1521	TYR	CA-C	-11.87	1.37	1.52
3	1-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	2-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	3-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	4-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	5-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	6-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	7-J	1521	TYR	CA-C	-11.86	1.37	1.52
3	8-J	1521	TYR	CA-C	-11.86	1.37	1.52
5	1-S	340	ALA	C-O	-11.85	1.09	1.23
5	2-S	340	ALA	C-O	-11.85	1.09	1.23
5	3-S	340	ALA	C-O	-11.85	1.09	1.23
5	4-S	340	ALA	C-O	-11.85	1.09	1.23
5	5-S	340	ALA	C-O	-11.85	1.09	1.23
5	6-S	340	ALA	C-O	-11.85	1.09	1.23
5	7-S	340	ALA	C-O	-11.85	1.09	1.23
5	8-S	340	ALA	C-O	-11.85	1.09	1.23
4	1-L	440	MET	CA-CB	-11.85	1.34	1.53
2	1-O	15	GLN	N-CA	-11.85	1.31	1.46
4	2-L	440	MET	CA-CB	-11.85	1.34	1.53
2	2-O	15	GLN	N-CA	-11.85	1.31	1.46
4	3-L	440	MET	CA-CB	-11.85	1.34	1.53
2	3-O	15	GLN	N-CA	-11.85	1.31	1.46
4	4-L	440	MET	CA-CB	-11.85	1.34	1.53
2	4-O	15	GLN	N-CA	-11.85	1.31	1.46
4	5-L	440	MET	CA-CB	-11.85	1.34	1.53
2	5-O	15	GLN	N-CA	-11.85	1.31	1.46
4	6-L	440	MET	CA-CB	-11.85	1.34	1.53
2	6-O	15	GLN	N-CA	-11.85	1.31	1.46
4	7-L	440	MET	CA-CB	-11.85	1.34	1.53
2	7-O	15	GLN	N-CA	-11.85	1.31	1.46
4	8-L	440	MET	CA-CB	-11.85	1.34	1.53
2	8-O	15	GLN	N-CA	-11.85	1.31	1.46
2	1-I	15	GLN	N-CA	-11.84	1.31	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-T	497	ARG	CA-C	-11.84	1.36	1.52
2	2-I	15	GLN	N-CA	-11.84	1.31	1.46
6	2-T	497	ARG	CA-C	-11.84	1.36	1.52
2	3-I	15	GLN	N-CA	-11.84	1.31	1.46
6	3-T	497	ARG	CA-C	-11.84	1.36	1.52
2	4-I	15	GLN	N-CA	-11.84	1.31	1.46
6	4-T	497	ARG	CA-C	-11.84	1.36	1.52
2	5-I	15	GLN	N-CA	-11.84	1.31	1.46
6	5-T	497	ARG	CA-C	-11.84	1.36	1.52
2	6-I	15	GLN	N-CA	-11.84	1.31	1.46
6	6-T	497	ARG	CA-C	-11.84	1.36	1.52
2	7-I	15	GLN	N-CA	-11.84	1.31	1.46
6	7-T	497	ARG	CA-C	-11.84	1.36	1.52
2	8-I	15	GLN	N-CA	-11.84	1.31	1.46
6	8-T	497	ARG	CA-C	-11.84	1.36	1.52
6	1-H	497	ARG	CA-C	-11.84	1.36	1.52
6	2-H	497	ARG	CA-C	-11.84	1.36	1.52
6	3-H	497	ARG	CA-C	-11.84	1.36	1.52
6	4-H	497	ARG	CA-C	-11.84	1.36	1.52
6	5-H	497	ARG	CA-C	-11.84	1.36	1.52
6	6-H	497	ARG	CA-C	-11.84	1.36	1.52
6	7-H	497	ARG	CA-C	-11.84	1.36	1.52
6	8-H	497	ARG	CA-C	-11.84	1.36	1.52
5	1-M	340	ALA	C-O	-11.84	1.09	1.23
5	2-M	340	ALA	C-O	-11.84	1.09	1.23
5	3-M	340	ALA	C-O	-11.84	1.09	1.23
5	4-M	340	ALA	C-O	-11.84	1.09	1.23
5	5-M	340	ALA	C-O	-11.84	1.09	1.23
5	6-M	340	ALA	C-O	-11.84	1.09	1.23
5	7-M	340	ALA	C-O	-11.84	1.09	1.23
5	8-M	340	ALA	C-O	-11.84	1.09	1.23
5	1-G	393	TYR	CA-C	11.84	1.69	1.52
5	2-G	393	TYR	CA-C	11.84	1.69	1.52
5	3-G	393	TYR	CA-C	11.84	1.69	1.52
5	4-G	393	TYR	CA-C	11.84	1.69	1.52
5	5-G	393	TYR	CA-C	11.84	1.69	1.52
5	6-G	393	TYR	CA-C	11.84	1.69	1.52
5	7-G	393	TYR	CA-C	11.84	1.69	1.52
5	8-G	393	TYR	CA-C	11.84	1.69	1.52
4	1-X	440	MET	CA-CB	-11.84	1.35	1.53
4	2-X	440	MET	CA-CB	-11.84	1.35	1.53
4	3-X	440	MET	CA-CB	-11.84	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	440	MET	CA-CB	-11.84	1.35	1.53
4	5-X	440	MET	CA-CB	-11.84	1.35	1.53
4	6-X	440	MET	CA-CB	-11.84	1.35	1.53
4	7-X	440	MET	CA-CB	-11.84	1.35	1.53
4	8-X	440	MET	CA-CB	-11.84	1.35	1.53
3	1-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	1-M	393	TYR	CA-C	11.84	1.69	1.52
6	1-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	2-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	2-M	393	TYR	CA-C	11.84	1.69	1.52
6	2-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	3-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	3-M	393	TYR	CA-C	11.84	1.69	1.52
6	3-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	4-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	4-M	393	TYR	CA-C	11.84	1.69	1.52
6	4-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	5-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	5-M	393	TYR	CA-C	11.84	1.69	1.52
6	5-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	6-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	6-M	393	TYR	CA-C	11.84	1.69	1.52
6	6-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	7-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	7-M	393	TYR	CA-C	11.84	1.69	1.52
6	7-Z	497	ARG	CA-C	-11.84	1.36	1.52
3	8-D	1521	TYR	CA-C	-11.84	1.37	1.52
5	8-M	393	TYR	CA-C	11.84	1.69	1.52
6	8-Z	497	ARG	CA-C	-11.84	1.36	1.52
5	1-Y	340	ALA	C-O	-11.83	1.09	1.23
5	2-Y	340	ALA	C-O	-11.83	1.09	1.23
5	3-Y	340	ALA	C-O	-11.83	1.09	1.23
5	4-Y	340	ALA	C-O	-11.83	1.09	1.23
5	5-Y	340	ALA	C-O	-11.83	1.09	1.23
5	6-Y	340	ALA	C-O	-11.83	1.09	1.23
5	7-Y	340	ALA	C-O	-11.83	1.09	1.23
5	8-Y	340	ALA	C-O	-11.83	1.09	1.23
6	1-N	497	ARG	CA-C	-11.83	1.36	1.52
6	2-N	497	ARG	CA-C	-11.83	1.36	1.52
6	3-N	497	ARG	CA-C	-11.83	1.36	1.52
6	4-N	497	ARG	CA-C	-11.83	1.36	1.52
6	5-N	497	ARG	CA-C	-11.83	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-N	497	ARG	CA-C	-11.83	1.36	1.52
6	7-N	497	ARG	CA-C	-11.83	1.36	1.52
6	8-N	497	ARG	CA-C	-11.83	1.36	1.52
5	1-G	340	ALA	C-O	-11.82	1.09	1.23
5	2-G	340	ALA	C-O	-11.82	1.09	1.23
5	3-G	340	ALA	C-O	-11.82	1.09	1.23
5	4-G	340	ALA	C-O	-11.82	1.09	1.23
5	5-G	340	ALA	C-O	-11.82	1.09	1.23
5	6-G	340	ALA	C-O	-11.82	1.09	1.23
5	7-G	340	ALA	C-O	-11.82	1.09	1.23
5	8-G	340	ALA	C-O	-11.82	1.09	1.23
5	1-Y	393	TYR	CA-C	11.82	1.69	1.52
5	2-Y	393	TYR	CA-C	11.82	1.69	1.52
5	3-Y	393	TYR	CA-C	11.82	1.69	1.52
5	4-Y	393	TYR	CA-C	11.82	1.69	1.52
5	5-Y	393	TYR	CA-C	11.82	1.69	1.52
5	6-Y	393	TYR	CA-C	11.82	1.69	1.52
5	7-Y	393	TYR	CA-C	11.82	1.69	1.52
5	8-Y	393	TYR	CA-C	11.82	1.69	1.52
4	1-F	440	MET	CA-CB	-11.81	1.35	1.53
5	1-S	393	TYR	CA-C	11.81	1.69	1.52
4	2-F	440	MET	CA-CB	-11.81	1.35	1.53
5	2-S	393	TYR	CA-C	11.81	1.69	1.52
4	3-F	440	MET	CA-CB	-11.81	1.35	1.53
5	3-S	393	TYR	CA-C	11.81	1.69	1.52
4	4-F	440	MET	CA-CB	-11.81	1.35	1.53
5	4-S	393	TYR	CA-C	11.81	1.69	1.52
4	5-F	440	MET	CA-CB	-11.81	1.35	1.53
5	5-S	393	TYR	CA-C	11.81	1.69	1.52
4	6-F	440	MET	CA-CB	-11.81	1.35	1.53
5	6-S	393	TYR	CA-C	11.81	1.69	1.52
4	7-F	440	MET	CA-CB	-11.81	1.35	1.53
5	7-S	393	TYR	CA-C	11.81	1.69	1.52
4	8-F	440	MET	CA-CB	-11.81	1.35	1.53
5	8-S	393	TYR	CA-C	11.81	1.69	1.52
4	1-R	440	MET	CA-CB	-11.81	1.35	1.53
4	2-R	440	MET	CA-CB	-11.81	1.35	1.53
4	3-R	440	MET	CA-CB	-11.81	1.35	1.53
4	4-R	440	MET	CA-CB	-11.81	1.35	1.53
4	5-R	440	MET	CA-CB	-11.81	1.35	1.53
4	6-R	440	MET	CA-CB	-11.81	1.35	1.53
4	7-R	440	MET	CA-CB	-11.81	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	440	MET	CA-CB	-11.81	1.35	1.53
6	1-T	391	GLN	C-N	11.80	1.49	1.33
6	2-T	391	GLN	C-N	11.80	1.49	1.33
6	3-T	391	GLN	C-N	11.80	1.49	1.33
6	4-T	391	GLN	C-N	11.80	1.49	1.33
6	5-T	391	GLN	C-N	11.80	1.49	1.33
6	6-T	391	GLN	C-N	11.80	1.49	1.33
6	7-T	391	GLN	C-N	11.80	1.49	1.33
6	8-T	391	GLN	C-N	11.80	1.49	1.33
6	1-N	391	GLN	C-N	11.76	1.49	1.33
6	2-N	391	GLN	C-N	11.76	1.49	1.33
6	3-N	391	GLN	C-N	11.76	1.49	1.33
6	4-N	391	GLN	C-N	11.76	1.49	1.33
6	5-N	391	GLN	C-N	11.76	1.49	1.33
6	6-N	391	GLN	C-N	11.76	1.49	1.33
6	7-N	391	GLN	C-N	11.76	1.49	1.33
6	8-N	391	GLN	C-N	11.76	1.49	1.33
6	1-Z	391	GLN	C-N	11.75	1.49	1.33
6	2-Z	391	GLN	C-N	11.75	1.49	1.33
6	3-Z	391	GLN	C-N	11.75	1.49	1.33
6	4-Z	391	GLN	C-N	11.75	1.49	1.33
6	5-Z	391	GLN	C-N	11.75	1.49	1.33
6	6-Z	391	GLN	C-N	11.75	1.49	1.33
6	7-Z	391	GLN	C-N	11.75	1.49	1.33
6	8-Z	391	GLN	C-N	11.75	1.49	1.33
5	1-G	332	PRO	CA-C	-11.72	1.41	1.52
5	2-G	332	PRO	CA-C	-11.72	1.41	1.52
5	3-G	332	PRO	CA-C	-11.72	1.41	1.52
5	4-G	332	PRO	CA-C	-11.72	1.41	1.52
5	5-G	332	PRO	CA-C	-11.72	1.41	1.52
5	6-G	332	PRO	CA-C	-11.72	1.41	1.52
5	7-G	332	PRO	CA-C	-11.72	1.41	1.52
5	8-G	332	PRO	CA-C	-11.72	1.41	1.52
6	1-H	391	GLN	C-N	11.72	1.49	1.33
5	1-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	2-H	391	GLN	C-N	11.72	1.49	1.33
5	2-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	3-H	391	GLN	C-N	11.72	1.49	1.33
5	3-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	4-H	391	GLN	C-N	11.72	1.49	1.33
5	4-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	5-H	391	GLN	C-N	11.72	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	6-H	391	GLN	C-N	11.72	1.49	1.33
5	6-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	7-H	391	GLN	C-N	11.72	1.49	1.33
5	7-Y	332	PRO	CA-C	-11.72	1.41	1.52
6	8-H	391	GLN	C-N	11.72	1.49	1.33
5	8-Y	332	PRO	CA-C	-11.72	1.41	1.52
5	1-M	332	PRO	CA-C	-11.71	1.41	1.52
5	2-M	332	PRO	CA-C	-11.71	1.41	1.52
5	3-M	332	PRO	CA-C	-11.71	1.41	1.52
5	4-M	332	PRO	CA-C	-11.71	1.41	1.52
5	5-M	332	PRO	CA-C	-11.71	1.41	1.52
5	6-M	332	PRO	CA-C	-11.71	1.41	1.52
5	7-M	332	PRO	CA-C	-11.71	1.41	1.52
5	8-M	332	PRO	CA-C	-11.71	1.41	1.52
5	1-S	332	PRO	CA-C	-11.68	1.41	1.52
5	2-S	332	PRO	CA-C	-11.68	1.41	1.52
5	3-S	332	PRO	CA-C	-11.68	1.41	1.52
5	4-S	332	PRO	CA-C	-11.68	1.41	1.52
5	5-S	332	PRO	CA-C	-11.68	1.41	1.52
5	6-S	332	PRO	CA-C	-11.68	1.41	1.52
5	7-S	332	PRO	CA-C	-11.68	1.41	1.52
5	8-S	332	PRO	CA-C	-11.68	1.41	1.52
6	1-Z	391	GLN	CA-C	11.65	1.68	1.52
6	2-Z	391	GLN	CA-C	11.65	1.68	1.52
6	3-Z	391	GLN	CA-C	11.65	1.68	1.52
6	4-Z	391	GLN	CA-C	11.65	1.68	1.52
6	5-Z	391	GLN	CA-C	11.65	1.68	1.52
6	6-Z	391	GLN	CA-C	11.65	1.68	1.52
6	7-Z	391	GLN	CA-C	11.65	1.68	1.52
6	8-Z	391	GLN	CA-C	11.65	1.68	1.52
6	1-N	391	GLN	CA-C	11.64	1.68	1.52
6	2-N	391	GLN	CA-C	11.64	1.68	1.52
6	3-N	391	GLN	CA-C	11.64	1.68	1.52
6	4-N	391	GLN	CA-C	11.64	1.68	1.52
6	5-N	391	GLN	CA-C	11.64	1.68	1.52
6	6-N	391	GLN	CA-C	11.64	1.68	1.52
6	7-N	391	GLN	CA-C	11.64	1.68	1.52
6	8-N	391	GLN	CA-C	11.64	1.68	1.52
6	1-H	391	GLN	CA-C	11.63	1.68	1.52
6	2-H	391	GLN	CA-C	11.63	1.68	1.52
6	3-H	391	GLN	CA-C	11.63	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	391	GLN	CA-C	11.63	1.68	1.52
6	5-H	391	GLN	CA-C	11.63	1.68	1.52
6	6-H	391	GLN	CA-C	11.63	1.68	1.52
6	7-H	391	GLN	CA-C	11.63	1.68	1.52
6	8-H	391	GLN	CA-C	11.63	1.68	1.52
5	1-S	352	GLN	CA-CB	11.61	1.71	1.53
5	2-S	352	GLN	CA-CB	11.61	1.71	1.53
5	3-S	352	GLN	CA-CB	11.61	1.71	1.53
5	4-S	352	GLN	CA-CB	11.61	1.71	1.53
5	5-S	352	GLN	CA-CB	11.61	1.71	1.53
5	6-S	352	GLN	CA-CB	11.61	1.71	1.53
5	7-S	352	GLN	CA-CB	11.61	1.71	1.53
5	8-S	352	GLN	CA-CB	11.61	1.71	1.53
3	1-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	2-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	3-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	4-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	5-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	6-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	7-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	8-P	1451	ARG	CA-C	-11.60	1.37	1.52
3	1-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	2-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	3-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	4-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	5-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	6-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	7-D	1451	ARG	CA-C	-11.60	1.37	1.52
3	8-D	1451	ARG	CA-C	-11.60	1.37	1.52
6	1-T	391	GLN	CA-C	11.59	1.68	1.52
6	2-T	391	GLN	CA-C	11.59	1.68	1.52
6	3-T	391	GLN	CA-C	11.59	1.68	1.52
6	4-T	391	GLN	CA-C	11.59	1.68	1.52
6	5-T	391	GLN	CA-C	11.59	1.68	1.52
6	6-T	391	GLN	CA-C	11.59	1.68	1.52
6	7-T	391	GLN	CA-C	11.59	1.68	1.52
6	8-T	391	GLN	CA-C	11.59	1.68	1.52
3	1-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	2-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	3-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	4-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	5-V	1451	ARG	CA-C	-11.59	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	7-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	8-V	1451	ARG	CA-C	-11.59	1.37	1.52
3	1-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	2-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	3-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	4-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	5-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	6-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	7-J	1451	ARG	CA-C	-11.59	1.37	1.52
3	8-J	1451	ARG	CA-C	-11.59	1.37	1.52
5	1-G	352	GLN	CA-CB	11.57	1.71	1.53
5	2-G	352	GLN	CA-CB	11.57	1.71	1.53
5	3-G	352	GLN	CA-CB	11.57	1.71	1.53
5	4-G	352	GLN	CA-CB	11.57	1.71	1.53
5	5-G	352	GLN	CA-CB	11.57	1.71	1.53
5	6-G	352	GLN	CA-CB	11.57	1.71	1.53
5	7-G	352	GLN	CA-CB	11.57	1.71	1.53
5	8-G	352	GLN	CA-CB	11.57	1.71	1.53
5	1-M	352	GLN	CA-CB	11.56	1.71	1.53
5	2-M	352	GLN	CA-CB	11.56	1.71	1.53
5	3-M	352	GLN	CA-CB	11.56	1.71	1.53
5	4-M	352	GLN	CA-CB	11.56	1.71	1.53
5	5-M	352	GLN	CA-CB	11.56	1.71	1.53
5	6-M	352	GLN	CA-CB	11.56	1.71	1.53
5	7-M	352	GLN	CA-CB	11.56	1.71	1.53
5	8-M	352	GLN	CA-CB	11.56	1.71	1.53
5	1-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	2-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	3-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	4-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	5-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	6-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	7-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	8-Y	352	GLN	CA-CB	11.55	1.71	1.53
5	1-G	377	ASN	N-CA	-11.52	1.31	1.46
5	2-G	377	ASN	N-CA	-11.52	1.31	1.46
5	3-G	377	ASN	N-CA	-11.52	1.31	1.46
5	4-G	377	ASN	N-CA	-11.52	1.31	1.46
5	5-G	377	ASN	N-CA	-11.52	1.31	1.46
5	6-G	377	ASN	N-CA	-11.52	1.31	1.46
5	7-G	377	ASN	N-CA	-11.52	1.31	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-G	377	ASN	N-CA	-11.52	1.31	1.46
6	1-T	380	GLU	CA-CB	11.52	1.72	1.53
6	2-T	380	GLU	CA-CB	11.52	1.72	1.53
6	3-T	380	GLU	CA-CB	11.52	1.72	1.53
6	4-T	380	GLU	CA-CB	11.52	1.72	1.53
6	5-T	380	GLU	CA-CB	11.52	1.72	1.53
6	6-T	380	GLU	CA-CB	11.52	1.72	1.53
6	7-T	380	GLU	CA-CB	11.52	1.72	1.53
6	8-T	380	GLU	CA-CB	11.52	1.72	1.53
6	1-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	2-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	3-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	4-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	5-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	6-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	7-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	8-Z	380	GLU	CA-CB	11.49	1.72	1.53
6	1-N	380	GLU	CA-CB	11.48	1.72	1.53
6	2-N	380	GLU	CA-CB	11.48	1.72	1.53
6	3-N	380	GLU	CA-CB	11.48	1.72	1.53
6	4-N	380	GLU	CA-CB	11.48	1.72	1.53
6	5-N	380	GLU	CA-CB	11.48	1.72	1.53
6	6-N	380	GLU	CA-CB	11.48	1.72	1.53
6	7-N	380	GLU	CA-CB	11.48	1.72	1.53
6	8-N	380	GLU	CA-CB	11.48	1.72	1.53
5	1-M	377	ASN	N-CA	-11.48	1.31	1.46
5	2-M	377	ASN	N-CA	-11.48	1.31	1.46
5	3-M	377	ASN	N-CA	-11.48	1.31	1.46
5	4-M	377	ASN	N-CA	-11.48	1.31	1.46
5	5-M	377	ASN	N-CA	-11.48	1.31	1.46
5	6-M	377	ASN	N-CA	-11.48	1.31	1.46
5	7-M	377	ASN	N-CA	-11.48	1.31	1.46
5	8-M	377	ASN	N-CA	-11.48	1.31	1.46
4	1-R	144	LEU	N-CA	-11.47	1.30	1.46
4	2-R	144	LEU	N-CA	-11.47	1.30	1.46
4	3-R	144	LEU	N-CA	-11.47	1.30	1.46
4	4-R	144	LEU	N-CA	-11.47	1.30	1.46
4	5-R	144	LEU	N-CA	-11.47	1.30	1.46
4	6-R	144	LEU	N-CA	-11.47	1.30	1.46
4	7-R	144	LEU	N-CA	-11.47	1.30	1.46
4	8-R	144	LEU	N-CA	-11.47	1.30	1.46
4	1-F	144	LEU	N-CA	-11.47	1.30	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	144	LEU	N-CA	-11.47	1.30	1.46
4	3-F	144	LEU	N-CA	-11.47	1.30	1.46
4	4-F	144	LEU	N-CA	-11.47	1.30	1.46
4	5-F	144	LEU	N-CA	-11.47	1.30	1.46
4	6-F	144	LEU	N-CA	-11.47	1.30	1.46
4	7-F	144	LEU	N-CA	-11.47	1.30	1.46
4	8-F	144	LEU	N-CA	-11.47	1.30	1.46
5	1-S	377	ASN	N-CA	-11.47	1.31	1.46
5	2-S	377	ASN	N-CA	-11.47	1.31	1.46
5	3-S	377	ASN	N-CA	-11.47	1.31	1.46
5	4-S	377	ASN	N-CA	-11.47	1.31	1.46
5	5-S	377	ASN	N-CA	-11.47	1.31	1.46
5	6-S	377	ASN	N-CA	-11.47	1.31	1.46
5	7-S	377	ASN	N-CA	-11.47	1.31	1.46
5	8-S	377	ASN	N-CA	-11.47	1.31	1.46
4	1-X	144	LEU	N-CA	-11.46	1.30	1.46
4	2-X	144	LEU	N-CA	-11.46	1.30	1.46
4	3-X	144	LEU	N-CA	-11.46	1.30	1.46
4	4-X	144	LEU	N-CA	-11.46	1.30	1.46
4	5-X	144	LEU	N-CA	-11.46	1.30	1.46
4	6-X	144	LEU	N-CA	-11.46	1.30	1.46
4	7-X	144	LEU	N-CA	-11.46	1.30	1.46
4	8-X	144	LEU	N-CA	-11.46	1.30	1.46
5	1-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	2-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	3-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	4-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	5-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	6-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	7-Y	377	ASN	N-CA	-11.46	1.31	1.46
5	8-Y	377	ASN	N-CA	-11.46	1.31	1.46
4	1-L	144	LEU	N-CA	-11.42	1.30	1.46
4	2-L	144	LEU	N-CA	-11.42	1.30	1.46
4	3-L	144	LEU	N-CA	-11.42	1.30	1.46
4	4-L	144	LEU	N-CA	-11.42	1.30	1.46
4	5-L	144	LEU	N-CA	-11.42	1.30	1.46
4	6-L	144	LEU	N-CA	-11.42	1.30	1.46
4	7-L	144	LEU	N-CA	-11.42	1.30	1.46
4	8-L	144	LEU	N-CA	-11.42	1.30	1.46
5	1-Y	361	ARG	N-CA	11.42	1.60	1.46
5	2-Y	361	ARG	N-CA	11.42	1.60	1.46
5	3-Y	361	ARG	N-CA	11.42	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-Y	361	ARG	N-CA	11.42	1.60	1.46
5	5-Y	361	ARG	N-CA	11.42	1.60	1.46
5	6-Y	361	ARG	N-CA	11.42	1.60	1.46
5	7-Y	361	ARG	N-CA	11.42	1.60	1.46
5	8-Y	361	ARG	N-CA	11.42	1.60	1.46
4	1-F	448	ARG	N-CA	11.39	1.61	1.46
4	2-F	448	ARG	N-CA	11.39	1.61	1.46
4	3-F	448	ARG	N-CA	11.39	1.61	1.46
4	4-F	448	ARG	N-CA	11.39	1.61	1.46
4	5-F	448	ARG	N-CA	11.39	1.61	1.46
4	6-F	448	ARG	N-CA	11.39	1.61	1.46
4	7-F	448	ARG	N-CA	11.39	1.61	1.46
4	8-F	448	ARG	N-CA	11.39	1.61	1.46
5	1-G	361	ARG	N-CA	11.38	1.60	1.46
5	2-G	361	ARG	N-CA	11.38	1.60	1.46
5	3-G	361	ARG	N-CA	11.38	1.60	1.46
5	4-G	361	ARG	N-CA	11.38	1.60	1.46
5	5-G	361	ARG	N-CA	11.38	1.60	1.46
5	6-G	361	ARG	N-CA	11.38	1.60	1.46
5	7-G	361	ARG	N-CA	11.38	1.60	1.46
5	8-G	361	ARG	N-CA	11.38	1.60	1.46
5	1-M	361	ARG	N-CA	11.37	1.60	1.46
5	2-M	361	ARG	N-CA	11.37	1.60	1.46
5	3-M	361	ARG	N-CA	11.37	1.60	1.46
5	4-M	361	ARG	N-CA	11.37	1.60	1.46
5	5-M	361	ARG	N-CA	11.37	1.60	1.46
5	6-M	361	ARG	N-CA	11.37	1.60	1.46
5	7-M	361	ARG	N-CA	11.37	1.60	1.46
5	8-M	361	ARG	N-CA	11.37	1.60	1.46
4	1-L	448	ARG	N-CA	11.37	1.61	1.46
4	2-L	448	ARG	N-CA	11.37	1.61	1.46
4	3-L	448	ARG	N-CA	11.37	1.61	1.46
4	4-L	448	ARG	N-CA	11.37	1.61	1.46
4	5-L	448	ARG	N-CA	11.37	1.61	1.46
4	6-L	448	ARG	N-CA	11.37	1.61	1.46
4	7-L	448	ARG	N-CA	11.37	1.61	1.46
4	8-L	448	ARG	N-CA	11.37	1.61	1.46
4	1-X	448	ARG	N-CA	11.36	1.61	1.46
4	2-X	448	ARG	N-CA	11.36	1.61	1.46
4	3-X	448	ARG	N-CA	11.36	1.61	1.46
4	4-X	448	ARG	N-CA	11.36	1.61	1.46
4	5-X	448	ARG	N-CA	11.36	1.61	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-X	448	ARG	N-CA	11.36	1.61	1.46
4	7-X	448	ARG	N-CA	11.36	1.61	1.46
4	8-X	448	ARG	N-CA	11.36	1.61	1.46
5	1-S	361	ARG	N-CA	11.35	1.60	1.46
5	2-S	361	ARG	N-CA	11.35	1.60	1.46
5	3-S	361	ARG	N-CA	11.35	1.60	1.46
5	4-S	361	ARG	N-CA	11.35	1.60	1.46
5	5-S	361	ARG	N-CA	11.35	1.60	1.46
5	6-S	361	ARG	N-CA	11.35	1.60	1.46
5	7-S	361	ARG	N-CA	11.35	1.60	1.46
5	8-S	361	ARG	N-CA	11.35	1.60	1.46
4	1-R	448	ARG	N-CA	11.35	1.61	1.46
4	2-R	448	ARG	N-CA	11.35	1.61	1.46
4	3-R	448	ARG	N-CA	11.35	1.61	1.46
4	4-R	448	ARG	N-CA	11.35	1.61	1.46
4	5-R	448	ARG	N-CA	11.35	1.61	1.46
4	6-R	448	ARG	N-CA	11.35	1.61	1.46
4	7-R	448	ARG	N-CA	11.35	1.61	1.46
4	8-R	448	ARG	N-CA	11.35	1.61	1.46
4	1-F	450	GLU	C-N	11.30	1.49	1.33
4	2-F	450	GLU	C-N	11.30	1.49	1.33
4	3-F	450	GLU	C-N	11.30	1.49	1.33
4	4-F	450	GLU	C-N	11.30	1.49	1.33
4	5-F	450	GLU	C-N	11.30	1.49	1.33
4	6-F	450	GLU	C-N	11.30	1.49	1.33
4	7-F	450	GLU	C-N	11.30	1.49	1.33
4	8-F	450	GLU	C-N	11.30	1.49	1.33
4	1-X	450	GLU	C-N	11.30	1.49	1.33
4	2-X	450	GLU	C-N	11.30	1.49	1.33
4	3-X	450	GLU	C-N	11.30	1.49	1.33
4	4-X	450	GLU	C-N	11.30	1.49	1.33
4	5-X	450	GLU	C-N	11.30	1.49	1.33
4	6-X	450	GLU	C-N	11.30	1.49	1.33
4	7-X	450	GLU	C-N	11.30	1.49	1.33
4	8-X	450	GLU	C-N	11.30	1.49	1.33
4	1-L	450	GLU	C-N	11.29	1.49	1.33
4	2-L	450	GLU	C-N	11.29	1.49	1.33
4	3-L	450	GLU	C-N	11.29	1.49	1.33
4	4-L	450	GLU	C-N	11.29	1.49	1.33
4	5-L	450	GLU	C-N	11.29	1.49	1.33
4	6-L	450	GLU	C-N	11.29	1.49	1.33
4	7-L	450	GLU	C-N	11.29	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	450	GLU	C-N	11.29	1.49	1.33
4	1-R	450	GLU	C-N	11.29	1.49	1.33
4	2-R	450	GLU	C-N	11.29	1.49	1.33
4	3-R	450	GLU	C-N	11.29	1.49	1.33
4	4-R	450	GLU	C-N	11.29	1.49	1.33
4	5-R	450	GLU	C-N	11.29	1.49	1.33
4	6-R	450	GLU	C-N	11.29	1.49	1.33
4	7-R	450	GLU	C-N	11.29	1.49	1.33
4	8-R	450	GLU	C-N	11.29	1.49	1.33
2	1-O	28	HIS	N-CA	11.27	1.59	1.45
4	1-R	439	ARG	N-CA	-11.27	1.31	1.46
2	2-O	28	HIS	N-CA	11.27	1.59	1.45
4	2-R	439	ARG	N-CA	-11.27	1.31	1.46
2	3-O	28	HIS	N-CA	11.27	1.59	1.45
4	3-R	439	ARG	N-CA	-11.27	1.31	1.46
2	4-O	28	HIS	N-CA	11.27	1.59	1.45
4	4-R	439	ARG	N-CA	-11.27	1.31	1.46
2	5-O	28	HIS	N-CA	11.27	1.59	1.45
4	5-R	439	ARG	N-CA	-11.27	1.31	1.46
2	6-O	28	HIS	N-CA	11.27	1.59	1.45
4	6-R	439	ARG	N-CA	-11.27	1.31	1.46
2	7-O	28	HIS	N-CA	11.27	1.59	1.45
4	7-R	439	ARG	N-CA	-11.27	1.31	1.46
2	8-O	28	HIS	N-CA	11.27	1.59	1.45
4	8-R	439	ARG	N-CA	-11.27	1.31	1.46
6	1-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	2-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	3-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	4-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	5-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	6-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	7-H	366	ILE	CA-CB	-11.26	1.41	1.54
6	8-H	366	ILE	CA-CB	-11.26	1.41	1.54
4	1-F	439	ARG	N-CA	-11.26	1.31	1.46
4	2-F	439	ARG	N-CA	-11.26	1.31	1.46
4	3-F	439	ARG	N-CA	-11.26	1.31	1.46
4	4-F	439	ARG	N-CA	-11.26	1.31	1.46
4	5-F	439	ARG	N-CA	-11.26	1.31	1.46
4	6-F	439	ARG	N-CA	-11.26	1.31	1.46
4	7-F	439	ARG	N-CA	-11.26	1.31	1.46
4	8-F	439	ARG	N-CA	-11.26	1.31	1.46
6	1-T	366	ILE	CA-CB	-11.25	1.41	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	3-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	4-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	5-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	6-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	7-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	8-T	366	ILE	CA-CB	-11.25	1.41	1.54
6	1-N	491	ASN	N-CA	-11.25	1.32	1.46
6	2-N	491	ASN	N-CA	-11.25	1.32	1.46
6	3-N	491	ASN	N-CA	-11.25	1.32	1.46
6	4-N	491	ASN	N-CA	-11.25	1.32	1.46
6	5-N	491	ASN	N-CA	-11.25	1.32	1.46
6	6-N	491	ASN	N-CA	-11.25	1.32	1.46
6	7-N	491	ASN	N-CA	-11.25	1.32	1.46
6	8-N	491	ASN	N-CA	-11.25	1.32	1.46
6	1-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	1-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	2-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	2-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	3-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	3-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	4-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	4-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	5-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	5-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	6-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	6-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	7-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	7-Z	491	ASN	N-CA	-11.25	1.32	1.46
6	8-Z	366	ILE	CA-CB	-11.25	1.41	1.54
6	8-Z	491	ASN	N-CA	-11.25	1.32	1.46
5	1-M	264	GLU	N-CA	11.24	1.59	1.46
5	2-M	264	GLU	N-CA	11.24	1.59	1.46
5	3-M	264	GLU	N-CA	11.24	1.59	1.46
5	4-M	264	GLU	N-CA	11.24	1.59	1.46
5	5-M	264	GLU	N-CA	11.24	1.59	1.46
5	6-M	264	GLU	N-CA	11.24	1.59	1.46
5	7-M	264	GLU	N-CA	11.24	1.59	1.46
5	8-M	264	GLU	N-CA	11.24	1.59	1.46
6	1-H	491	ASN	N-CA	-11.24	1.32	1.46
6	2-H	491	ASN	N-CA	-11.24	1.32	1.46
6	3-H	491	ASN	N-CA	-11.24	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	491	ASN	N-CA	-11.24	1.32	1.46
6	5-H	491	ASN	N-CA	-11.24	1.32	1.46
6	6-H	491	ASN	N-CA	-11.24	1.32	1.46
6	7-H	491	ASN	N-CA	-11.24	1.32	1.46
6	8-H	491	ASN	N-CA	-11.24	1.32	1.46
4	1-F	400	GLY	CA-C	-11.23	1.36	1.51
2	1-U	28	HIS	N-CA	11.23	1.59	1.45
4	2-F	400	GLY	CA-C	-11.23	1.36	1.51
2	2-U	28	HIS	N-CA	11.23	1.59	1.45
4	3-F	400	GLY	CA-C	-11.23	1.36	1.51
2	3-U	28	HIS	N-CA	11.23	1.59	1.45
4	4-F	400	GLY	CA-C	-11.23	1.36	1.51
2	4-U	28	HIS	N-CA	11.23	1.59	1.45
4	5-F	400	GLY	CA-C	-11.23	1.36	1.51
2	5-U	28	HIS	N-CA	11.23	1.59	1.45
4	6-F	400	GLY	CA-C	-11.23	1.36	1.51
2	6-U	28	HIS	N-CA	11.23	1.59	1.45
4	7-F	400	GLY	CA-C	-11.23	1.36	1.51
2	7-U	28	HIS	N-CA	11.23	1.59	1.45
4	8-F	400	GLY	CA-C	-11.23	1.36	1.51
2	8-U	28	HIS	N-CA	11.23	1.59	1.45
5	1-S	264	GLU	N-CA	11.23	1.59	1.46
5	2-S	264	GLU	N-CA	11.23	1.59	1.46
5	3-S	264	GLU	N-CA	11.23	1.59	1.46
5	4-S	264	GLU	N-CA	11.23	1.59	1.46
5	5-S	264	GLU	N-CA	11.23	1.59	1.46
5	6-S	264	GLU	N-CA	11.23	1.59	1.46
5	7-S	264	GLU	N-CA	11.23	1.59	1.46
5	8-S	264	GLU	N-CA	11.23	1.59	1.46
4	1-X	400	GLY	CA-C	-11.22	1.36	1.51
4	2-X	400	GLY	CA-C	-11.22	1.36	1.51
4	3-X	400	GLY	CA-C	-11.22	1.36	1.51
4	4-X	400	GLY	CA-C	-11.22	1.36	1.51
4	5-X	400	GLY	CA-C	-11.22	1.36	1.51
4	6-X	400	GLY	CA-C	-11.22	1.36	1.51
4	7-X	400	GLY	CA-C	-11.22	1.36	1.51
4	8-X	400	GLY	CA-C	-11.22	1.36	1.51
4	1-F	321	LYS	N-CA	-11.22	1.31	1.46
4	2-F	321	LYS	N-CA	-11.22	1.31	1.46
4	3-F	321	LYS	N-CA	-11.22	1.31	1.46
4	4-F	321	LYS	N-CA	-11.22	1.31	1.46
4	5-F	321	LYS	N-CA	-11.22	1.31	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	321	LYS	N-CA	-11.22	1.31	1.46
4	7-F	321	LYS	N-CA	-11.22	1.31	1.46
4	8-F	321	LYS	N-CA	-11.22	1.31	1.46
4	1-R	400	GLY	CA-C	-11.21	1.36	1.51
4	2-R	400	GLY	CA-C	-11.21	1.36	1.51
4	3-R	400	GLY	CA-C	-11.21	1.36	1.51
4	4-R	400	GLY	CA-C	-11.21	1.36	1.51
4	5-R	400	GLY	CA-C	-11.21	1.36	1.51
4	6-R	400	GLY	CA-C	-11.21	1.36	1.51
4	7-R	400	GLY	CA-C	-11.21	1.36	1.51
4	8-R	400	GLY	CA-C	-11.21	1.36	1.51
4	1-L	321	LYS	N-CA	-11.21	1.31	1.46
4	1-R	321	LYS	N-CA	-11.21	1.31	1.46
5	1-Y	264	GLU	N-CA	11.21	1.59	1.46
4	2-L	321	LYS	N-CA	-11.21	1.31	1.46
4	2-R	321	LYS	N-CA	-11.21	1.31	1.46
5	2-Y	264	GLU	N-CA	11.21	1.59	1.46
4	3-L	321	LYS	N-CA	-11.21	1.31	1.46
4	3-R	321	LYS	N-CA	-11.21	1.31	1.46
5	3-Y	264	GLU	N-CA	11.21	1.59	1.46
4	4-L	321	LYS	N-CA	-11.21	1.31	1.46
4	4-R	321	LYS	N-CA	-11.21	1.31	1.46
5	4-Y	264	GLU	N-CA	11.21	1.59	1.46
4	5-L	321	LYS	N-CA	-11.21	1.31	1.46
4	5-R	321	LYS	N-CA	-11.21	1.31	1.46
5	5-Y	264	GLU	N-CA	11.21	1.59	1.46
4	6-L	321	LYS	N-CA	-11.21	1.31	1.46
4	6-R	321	LYS	N-CA	-11.21	1.31	1.46
5	6-Y	264	GLU	N-CA	11.21	1.59	1.46
4	7-L	321	LYS	N-CA	-11.21	1.31	1.46
4	7-R	321	LYS	N-CA	-11.21	1.31	1.46
5	7-Y	264	GLU	N-CA	11.21	1.59	1.46
4	8-L	321	LYS	N-CA	-11.21	1.31	1.46
4	8-R	321	LYS	N-CA	-11.21	1.31	1.46
5	8-Y	264	GLU	N-CA	11.21	1.59	1.46
6	1-T	491	ASN	N-CA	-11.21	1.32	1.46
6	2-T	491	ASN	N-CA	-11.21	1.32	1.46
6	3-T	491	ASN	N-CA	-11.21	1.32	1.46
6	4-T	491	ASN	N-CA	-11.21	1.32	1.46
6	5-T	491	ASN	N-CA	-11.21	1.32	1.46
6	6-T	491	ASN	N-CA	-11.21	1.32	1.46
6	7-T	491	ASN	N-CA	-11.21	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-T	491	ASN	N-CA	-11.21	1.32	1.46
4	1-F	487	ASP	CA-CB	11.20	1.73	1.53
4	1-R	487	ASP	CA-CB	11.20	1.73	1.53
4	2-F	487	ASP	CA-CB	11.20	1.73	1.53
4	2-R	487	ASP	CA-CB	11.20	1.73	1.53
4	3-F	487	ASP	CA-CB	11.20	1.73	1.53
4	3-R	487	ASP	CA-CB	11.20	1.73	1.53
4	4-F	487	ASP	CA-CB	11.20	1.73	1.53
4	4-R	487	ASP	CA-CB	11.20	1.73	1.53
4	5-F	487	ASP	CA-CB	11.20	1.73	1.53
4	5-R	487	ASP	CA-CB	11.20	1.73	1.53
4	6-F	487	ASP	CA-CB	11.20	1.73	1.53
4	6-R	487	ASP	CA-CB	11.20	1.73	1.53
4	7-F	487	ASP	CA-CB	11.20	1.73	1.53
4	7-R	487	ASP	CA-CB	11.20	1.73	1.53
4	8-F	487	ASP	CA-CB	11.20	1.73	1.53
4	8-R	487	ASP	CA-CB	11.20	1.73	1.53
2	1-I	28	HIS	N-CA	11.19	1.59	1.45
4	1-X	321	LYS	N-CA	-11.19	1.31	1.46
2	2-I	28	HIS	N-CA	11.19	1.59	1.45
4	2-X	321	LYS	N-CA	-11.19	1.31	1.46
2	3-I	28	HIS	N-CA	11.19	1.59	1.45
4	3-X	321	LYS	N-CA	-11.19	1.31	1.46
2	4-I	28	HIS	N-CA	11.19	1.59	1.45
4	4-X	321	LYS	N-CA	-11.19	1.31	1.46
2	5-I	28	HIS	N-CA	11.19	1.59	1.45
4	5-X	321	LYS	N-CA	-11.19	1.31	1.46
2	6-I	28	HIS	N-CA	11.19	1.59	1.45
4	6-X	321	LYS	N-CA	-11.19	1.31	1.46
2	7-I	28	HIS	N-CA	11.19	1.59	1.45
4	7-X	321	LYS	N-CA	-11.19	1.31	1.46
2	8-I	28	HIS	N-CA	11.19	1.59	1.45
4	8-X	321	LYS	N-CA	-11.19	1.31	1.46
2	1-C	28	HIS	N-CA	11.19	1.59	1.45
2	2-C	28	HIS	N-CA	11.19	1.59	1.45
2	3-C	28	HIS	N-CA	11.19	1.59	1.45
2	4-C	28	HIS	N-CA	11.19	1.59	1.45
2	5-C	28	HIS	N-CA	11.19	1.59	1.45
2	6-C	28	HIS	N-CA	11.19	1.59	1.45
2	7-C	28	HIS	N-CA	11.19	1.59	1.45
2	8-C	28	HIS	N-CA	11.19	1.59	1.45
4	1-L	400	GLY	CA-C	-11.19	1.36	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	400	GLY	CA-C	-11.19	1.36	1.51
4	3-L	400	GLY	CA-C	-11.19	1.36	1.51
4	4-L	400	GLY	CA-C	-11.19	1.36	1.51
4	5-L	400	GLY	CA-C	-11.19	1.36	1.51
4	6-L	400	GLY	CA-C	-11.19	1.36	1.51
4	7-L	400	GLY	CA-C	-11.19	1.36	1.51
4	8-L	400	GLY	CA-C	-11.19	1.36	1.51
4	1-X	439	ARG	N-CA	-11.18	1.31	1.46
4	2-X	439	ARG	N-CA	-11.18	1.31	1.46
4	3-X	439	ARG	N-CA	-11.18	1.31	1.46
4	4-X	439	ARG	N-CA	-11.18	1.31	1.46
4	5-X	439	ARG	N-CA	-11.18	1.31	1.46
4	6-X	439	ARG	N-CA	-11.18	1.31	1.46
4	7-X	439	ARG	N-CA	-11.18	1.31	1.46
4	8-X	439	ARG	N-CA	-11.18	1.31	1.46
5	1-G	264	GLU	N-CA	11.18	1.59	1.46
4	1-X	487	ASP	CA-CB	11.18	1.73	1.53
5	2-G	264	GLU	N-CA	11.18	1.59	1.46
4	2-X	487	ASP	CA-CB	11.18	1.73	1.53
5	3-G	264	GLU	N-CA	11.18	1.59	1.46
4	3-X	487	ASP	CA-CB	11.18	1.73	1.53
5	4-G	264	GLU	N-CA	11.18	1.59	1.46
4	4-X	487	ASP	CA-CB	11.18	1.73	1.53
5	5-G	264	GLU	N-CA	11.18	1.59	1.46
4	5-X	487	ASP	CA-CB	11.18	1.73	1.53
5	6-G	264	GLU	N-CA	11.18	1.59	1.46
4	6-X	487	ASP	CA-CB	11.18	1.73	1.53
5	7-G	264	GLU	N-CA	11.18	1.59	1.46
4	7-X	487	ASP	CA-CB	11.18	1.73	1.53
5	8-G	264	GLU	N-CA	11.18	1.59	1.46
4	8-X	487	ASP	CA-CB	11.18	1.73	1.53
4	1-L	487	ASP	CA-CB	11.16	1.73	1.53
4	2-L	487	ASP	CA-CB	11.16	1.73	1.53
4	3-L	487	ASP	CA-CB	11.16	1.73	1.53
4	4-L	487	ASP	CA-CB	11.16	1.73	1.53
4	5-L	487	ASP	CA-CB	11.16	1.73	1.53
4	6-L	487	ASP	CA-CB	11.16	1.73	1.53
4	7-L	487	ASP	CA-CB	11.16	1.73	1.53
4	8-L	487	ASP	CA-CB	11.16	1.73	1.53
5	1-Y	404	GLN	CA-C	-11.16	1.37	1.52
5	2-Y	404	GLN	CA-C	-11.16	1.37	1.52
5	3-Y	404	GLN	CA-C	-11.16	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-Y	404	GLN	CA-C	-11.16	1.37	1.52
5	5-Y	404	GLN	CA-C	-11.16	1.37	1.52
5	6-Y	404	GLN	CA-C	-11.16	1.37	1.52
5	7-Y	404	GLN	CA-C	-11.16	1.37	1.52
5	8-Y	404	GLN	CA-C	-11.16	1.37	1.52
6	1-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	2-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	3-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	4-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	5-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	6-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	7-N	366	ILE	CA-CB	-11.16	1.41	1.54
6	8-N	366	ILE	CA-CB	-11.16	1.41	1.54
5	1-G	404	GLN	CA-C	-11.15	1.37	1.52
4	1-L	439	ARG	N-CA	-11.15	1.32	1.46
5	2-G	404	GLN	CA-C	-11.15	1.37	1.52
4	2-L	439	ARG	N-CA	-11.15	1.32	1.46
5	3-G	404	GLN	CA-C	-11.15	1.37	1.52
4	3-L	439	ARG	N-CA	-11.15	1.32	1.46
5	4-G	404	GLN	CA-C	-11.15	1.37	1.52
4	4-L	439	ARG	N-CA	-11.15	1.32	1.46
5	5-G	404	GLN	CA-C	-11.15	1.37	1.52
4	5-L	439	ARG	N-CA	-11.15	1.32	1.46
5	6-G	404	GLN	CA-C	-11.15	1.37	1.52
4	6-L	439	ARG	N-CA	-11.15	1.32	1.46
5	7-G	404	GLN	CA-C	-11.15	1.37	1.52
4	7-L	439	ARG	N-CA	-11.15	1.32	1.46
5	8-G	404	GLN	CA-C	-11.15	1.37	1.52
4	8-L	439	ARG	N-CA	-11.15	1.32	1.46
5	1-M	404	GLN	CA-C	-11.15	1.37	1.52
5	2-M	404	GLN	CA-C	-11.15	1.37	1.52
5	3-M	404	GLN	CA-C	-11.15	1.37	1.52
5	4-M	404	GLN	CA-C	-11.15	1.37	1.52
5	5-M	404	GLN	CA-C	-11.15	1.37	1.52
5	6-M	404	GLN	CA-C	-11.15	1.37	1.52
5	7-M	404	GLN	CA-C	-11.15	1.37	1.52
5	8-M	404	GLN	CA-C	-11.15	1.37	1.52
5	1-S	404	GLN	CA-C	-11.14	1.37	1.52
5	2-S	404	GLN	CA-C	-11.14	1.37	1.52
5	3-S	404	GLN	CA-C	-11.14	1.37	1.52
5	4-S	404	GLN	CA-C	-11.14	1.37	1.52
5	5-S	404	GLN	CA-C	-11.14	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-S	404	GLN	CA-C	-11.14	1.37	1.52
5	7-S	404	GLN	CA-C	-11.14	1.37	1.52
5	8-S	404	GLN	CA-C	-11.14	1.37	1.52
4	1-F	429	GLY	CA-C	-11.13	1.40	1.52
4	2-F	429	GLY	CA-C	-11.13	1.40	1.52
4	3-F	429	GLY	CA-C	-11.13	1.40	1.52
4	4-F	429	GLY	CA-C	-11.13	1.40	1.52
4	5-F	429	GLY	CA-C	-11.13	1.40	1.52
4	6-F	429	GLY	CA-C	-11.13	1.40	1.52
4	7-F	429	GLY	CA-C	-11.13	1.40	1.52
4	8-F	429	GLY	CA-C	-11.13	1.40	1.52
4	1-R	429	GLY	CA-C	-11.09	1.40	1.52
4	2-R	429	GLY	CA-C	-11.09	1.40	1.52
4	3-R	429	GLY	CA-C	-11.09	1.40	1.52
4	4-R	429	GLY	CA-C	-11.09	1.40	1.52
4	5-R	429	GLY	CA-C	-11.09	1.40	1.52
4	6-R	429	GLY	CA-C	-11.09	1.40	1.52
4	7-R	429	GLY	CA-C	-11.09	1.40	1.52
4	8-R	429	GLY	CA-C	-11.09	1.40	1.52
4	1-L	429	GLY	CA-C	-11.05	1.40	1.52
4	2-L	429	GLY	CA-C	-11.05	1.40	1.52
4	3-L	429	GLY	CA-C	-11.05	1.40	1.52
4	4-L	429	GLY	CA-C	-11.05	1.40	1.52
4	5-L	429	GLY	CA-C	-11.05	1.40	1.52
4	6-L	429	GLY	CA-C	-11.05	1.40	1.52
4	7-L	429	GLY	CA-C	-11.05	1.40	1.52
4	8-L	429	GLY	CA-C	-11.05	1.40	1.52
3	1-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	2-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	3-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	4-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	5-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	6-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	7-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	8-J	1520	GLY	N-CA	-11.01	1.29	1.45
3	1-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	2-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	3-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	4-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	5-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	6-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	7-V	1520	GLY	N-CA	-11.01	1.29	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-V	1520	GLY	N-CA	-11.01	1.29	1.45
3	1-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	2-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	3-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	4-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	5-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	6-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	7-P	1520	GLY	N-CA	-11.00	1.29	1.45
3	8-P	1520	GLY	N-CA	-11.00	1.29	1.45
4	1-X	429	GLY	CA-C	-10.99	1.40	1.52
4	2-X	429	GLY	CA-C	-10.99	1.40	1.52
4	3-X	429	GLY	CA-C	-10.99	1.40	1.52
4	4-X	429	GLY	CA-C	-10.99	1.40	1.52
4	5-X	429	GLY	CA-C	-10.99	1.40	1.52
4	6-X	429	GLY	CA-C	-10.99	1.40	1.52
4	7-X	429	GLY	CA-C	-10.99	1.40	1.52
4	8-X	429	GLY	CA-C	-10.99	1.40	1.52
3	1-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	2-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	3-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	4-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	5-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	6-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	7-D	1520	GLY	N-CA	-10.98	1.29	1.45
3	8-D	1520	GLY	N-CA	-10.98	1.29	1.45
6	1-H	380	GLU	CA-CB	10.96	1.72	1.53
6	2-H	380	GLU	CA-CB	10.96	1.72	1.53
6	3-H	380	GLU	CA-CB	10.96	1.72	1.53
6	4-H	380	GLU	CA-CB	10.96	1.72	1.53
6	5-H	380	GLU	CA-CB	10.96	1.72	1.53
6	6-H	380	GLU	CA-CB	10.96	1.72	1.53
6	7-H	380	GLU	CA-CB	10.96	1.72	1.53
6	8-H	380	GLU	CA-CB	10.96	1.72	1.53
5	1-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	2-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	3-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	4-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	5-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	6-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	7-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	8-Y	338	GLU	CA-C	-10.95	1.37	1.52
5	1-G	338	GLU	CA-C	-10.92	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-G	338	GLU	CA-C	-10.92	1.37	1.52
5	3-G	338	GLU	CA-C	-10.92	1.37	1.52
5	4-G	338	GLU	CA-C	-10.92	1.37	1.52
5	5-G	338	GLU	CA-C	-10.92	1.37	1.52
5	6-G	338	GLU	CA-C	-10.92	1.37	1.52
5	7-G	338	GLU	CA-C	-10.92	1.37	1.52
5	8-G	338	GLU	CA-C	-10.92	1.37	1.52
5	1-M	338	GLU	CA-C	-10.91	1.37	1.52
5	2-M	338	GLU	CA-C	-10.91	1.37	1.52
5	3-M	338	GLU	CA-C	-10.91	1.37	1.52
5	4-M	338	GLU	CA-C	-10.91	1.37	1.52
5	5-M	338	GLU	CA-C	-10.91	1.37	1.52
5	6-M	338	GLU	CA-C	-10.91	1.37	1.52
5	7-M	338	GLU	CA-C	-10.91	1.37	1.52
5	8-M	338	GLU	CA-C	-10.91	1.37	1.52
3	1-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	2-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	3-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	4-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	5-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	6-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	7-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	8-D	1489	HIS	N-CA	-10.90	1.31	1.46
3	1-P	1542	PRO	CA-C	10.90	1.67	1.52
3	2-P	1542	PRO	CA-C	10.90	1.67	1.52
3	3-P	1542	PRO	CA-C	10.90	1.67	1.52
3	4-P	1542	PRO	CA-C	10.90	1.67	1.52
3	5-P	1542	PRO	CA-C	10.90	1.67	1.52
3	6-P	1542	PRO	CA-C	10.90	1.67	1.52
3	7-P	1542	PRO	CA-C	10.90	1.67	1.52
3	8-P	1542	PRO	CA-C	10.90	1.67	1.52
3	1-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	2-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	3-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	4-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	5-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	6-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	7-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	8-V	1489	HIS	N-CA	-10.89	1.31	1.46
3	1-J	1511	GLN	N-CA	-10.89	1.32	1.46
3	2-J	1511	GLN	N-CA	-10.89	1.32	1.46
3	3-J	1511	GLN	N-CA	-10.89	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-J	1511	GLN	N-CA	-10.89	1.32	1.46
3	5-J	1511	GLN	N-CA	-10.89	1.32	1.46
3	6-J	1511	GLN	N-CA	-10.89	1.32	1.46
3	7-J	1511	GLN	N-CA	-10.89	1.32	1.46
3	8-J	1511	GLN	N-CA	-10.89	1.32	1.46
5	1-S	338	GLU	CA-C	-10.88	1.37	1.52
5	2-S	338	GLU	CA-C	-10.88	1.37	1.52
5	3-S	338	GLU	CA-C	-10.88	1.37	1.52
5	4-S	338	GLU	CA-C	-10.88	1.37	1.52
5	5-S	338	GLU	CA-C	-10.88	1.37	1.52
5	6-S	338	GLU	CA-C	-10.88	1.37	1.52
5	7-S	338	GLU	CA-C	-10.88	1.37	1.52
5	8-S	338	GLU	CA-C	-10.88	1.37	1.52
3	1-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	2-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	3-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	4-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	5-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	6-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	7-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	8-J	1489	HIS	N-CA	-10.88	1.31	1.46
3	1-V	1542	PRO	CA-C	10.87	1.67	1.52
3	2-V	1542	PRO	CA-C	10.87	1.67	1.52
3	3-V	1542	PRO	CA-C	10.87	1.67	1.52
3	4-V	1542	PRO	CA-C	10.87	1.67	1.52
3	5-V	1542	PRO	CA-C	10.87	1.67	1.52
3	6-V	1542	PRO	CA-C	10.87	1.67	1.52
3	7-V	1542	PRO	CA-C	10.87	1.67	1.52
3	8-V	1542	PRO	CA-C	10.87	1.67	1.52
3	1-J	1542	PRO	CA-C	10.86	1.67	1.52
3	1-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	2-J	1542	PRO	CA-C	10.86	1.67	1.52
3	2-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	3-J	1542	PRO	CA-C	10.86	1.67	1.52
3	3-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	4-J	1542	PRO	CA-C	10.86	1.67	1.52
3	4-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	5-J	1542	PRO	CA-C	10.86	1.67	1.52
3	5-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	6-J	1542	PRO	CA-C	10.86	1.67	1.52
3	6-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	7-J	1542	PRO	CA-C	10.86	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	8-J	1542	PRO	CA-C	10.86	1.67	1.52
3	8-P	1511	GLN	N-CA	-10.86	1.32	1.46
3	1-D	1542	PRO	CA-C	10.85	1.67	1.52
3	1-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	2-D	1542	PRO	CA-C	10.85	1.67	1.52
3	2-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	3-D	1542	PRO	CA-C	10.85	1.67	1.52
3	3-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	4-D	1542	PRO	CA-C	10.85	1.67	1.52
3	4-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	5-D	1542	PRO	CA-C	10.85	1.67	1.52
3	5-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	6-D	1542	PRO	CA-C	10.85	1.67	1.52
3	6-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	7-D	1542	PRO	CA-C	10.85	1.67	1.52
3	7-P	1489	HIS	N-CA	-10.85	1.31	1.46
3	8-D	1542	PRO	CA-C	10.85	1.67	1.52
3	8-P	1489	HIS	N-CA	-10.85	1.31	1.46
6	1-T	409	PRO	C-N	10.85	1.49	1.33
6	2-T	409	PRO	C-N	10.85	1.49	1.33
6	3-T	409	PRO	C-N	10.85	1.49	1.33
6	4-T	409	PRO	C-N	10.85	1.49	1.33
6	5-T	409	PRO	C-N	10.85	1.49	1.33
6	6-T	409	PRO	C-N	10.85	1.49	1.33
6	7-T	409	PRO	C-N	10.85	1.49	1.33
6	8-T	409	PRO	C-N	10.85	1.49	1.33
4	1-X	306	PRO	CA-C	10.84	1.68	1.52
4	2-X	306	PRO	CA-C	10.84	1.68	1.52
4	3-X	306	PRO	CA-C	10.84	1.68	1.52
4	4-X	306	PRO	CA-C	10.84	1.68	1.52
4	5-X	306	PRO	CA-C	10.84	1.68	1.52
4	6-X	306	PRO	CA-C	10.84	1.68	1.52
4	7-X	306	PRO	CA-C	10.84	1.68	1.52
4	8-X	306	PRO	CA-C	10.84	1.68	1.52
6	1-N	409	PRO	C-N	10.83	1.48	1.33
6	2-N	409	PRO	C-N	10.83	1.48	1.33
6	3-N	409	PRO	C-N	10.83	1.48	1.33
6	4-N	409	PRO	C-N	10.83	1.48	1.33
6	5-N	409	PRO	C-N	10.83	1.48	1.33
6	6-N	409	PRO	C-N	10.83	1.48	1.33
6	7-N	409	PRO	C-N	10.83	1.48	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-N	409	PRO	C-N	10.83	1.48	1.33
4	1-R	306	PRO	CA-C	10.83	1.68	1.52
4	2-R	306	PRO	CA-C	10.83	1.68	1.52
4	3-R	306	PRO	CA-C	10.83	1.68	1.52
4	4-R	306	PRO	CA-C	10.83	1.68	1.52
4	5-R	306	PRO	CA-C	10.83	1.68	1.52
4	6-R	306	PRO	CA-C	10.83	1.68	1.52
4	7-R	306	PRO	CA-C	10.83	1.68	1.52
4	8-R	306	PRO	CA-C	10.83	1.68	1.52
3	1-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	2-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	3-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	4-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	5-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	6-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	7-V	1511	GLN	N-CA	-10.82	1.32	1.46
3	8-V	1511	GLN	N-CA	-10.82	1.32	1.46
6	1-H	409	PRO	C-N	10.82	1.48	1.33
6	2-H	409	PRO	C-N	10.82	1.48	1.33
6	3-H	409	PRO	C-N	10.82	1.48	1.33
6	4-H	409	PRO	C-N	10.82	1.48	1.33
6	5-H	409	PRO	C-N	10.82	1.48	1.33
6	6-H	409	PRO	C-N	10.82	1.48	1.33
6	7-H	409	PRO	C-N	10.82	1.48	1.33
6	8-H	409	PRO	C-N	10.82	1.48	1.33
6	1-Z	409	PRO	C-N	10.82	1.48	1.33
6	2-Z	409	PRO	C-N	10.82	1.48	1.33
6	3-Z	409	PRO	C-N	10.82	1.48	1.33
6	4-Z	409	PRO	C-N	10.82	1.48	1.33
6	5-Z	409	PRO	C-N	10.82	1.48	1.33
6	6-Z	409	PRO	C-N	10.82	1.48	1.33
6	7-Z	409	PRO	C-N	10.82	1.48	1.33
6	8-Z	409	PRO	C-N	10.82	1.48	1.33
4	1-F	306	PRO	CA-C	10.81	1.68	1.52
4	2-F	306	PRO	CA-C	10.81	1.68	1.52
4	3-F	306	PRO	CA-C	10.81	1.68	1.52
4	4-F	306	PRO	CA-C	10.81	1.68	1.52
4	5-F	306	PRO	CA-C	10.81	1.68	1.52
4	6-F	306	PRO	CA-C	10.81	1.68	1.52
4	7-F	306	PRO	CA-C	10.81	1.68	1.52
4	8-F	306	PRO	CA-C	10.81	1.68	1.52
3	1-D	1511	GLN	N-CA	-10.80	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-D	1511	GLN	N-CA	-10.80	1.32	1.46
3	3-D	1511	GLN	N-CA	-10.80	1.32	1.46
3	4-D	1511	GLN	N-CA	-10.80	1.32	1.46
3	5-D	1511	GLN	N-CA	-10.80	1.32	1.46
3	6-D	1511	GLN	N-CA	-10.80	1.32	1.46
3	7-D	1511	GLN	N-CA	-10.80	1.32	1.46
3	8-D	1511	GLN	N-CA	-10.80	1.32	1.46
4	1-X	456	ASP	C-N	10.79	1.48	1.33
4	2-X	456	ASP	C-N	10.79	1.48	1.33
4	3-X	456	ASP	C-N	10.79	1.48	1.33
4	4-X	456	ASP	C-N	10.79	1.48	1.33
4	5-X	456	ASP	C-N	10.79	1.48	1.33
4	6-X	456	ASP	C-N	10.79	1.48	1.33
4	7-X	456	ASP	C-N	10.79	1.48	1.33
4	8-X	456	ASP	C-N	10.79	1.48	1.33
6	1-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	2-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	3-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	4-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	5-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	6-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	7-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	8-Z	381	LYS	CA-CB	10.78	1.71	1.53
6	1-N	381	LYS	CA-CB	10.77	1.71	1.53
6	2-N	381	LYS	CA-CB	10.77	1.71	1.53
6	3-N	381	LYS	CA-CB	10.77	1.71	1.53
6	4-N	381	LYS	CA-CB	10.77	1.71	1.53
6	5-N	381	LYS	CA-CB	10.77	1.71	1.53
6	6-N	381	LYS	CA-CB	10.77	1.71	1.53
6	7-N	381	LYS	CA-CB	10.77	1.71	1.53
6	8-N	381	LYS	CA-CB	10.77	1.71	1.53
4	1-L	306	PRO	CA-C	10.77	1.68	1.52
4	2-L	306	PRO	CA-C	10.77	1.68	1.52
4	3-L	306	PRO	CA-C	10.77	1.68	1.52
4	4-L	306	PRO	CA-C	10.77	1.68	1.52
4	5-L	306	PRO	CA-C	10.77	1.68	1.52
4	6-L	306	PRO	CA-C	10.77	1.68	1.52
4	7-L	306	PRO	CA-C	10.77	1.68	1.52
4	8-L	306	PRO	CA-C	10.77	1.68	1.52
4	1-L	456	ASP	C-N	10.76	1.48	1.33
4	2-L	456	ASP	C-N	10.76	1.48	1.33
4	3-L	456	ASP	C-N	10.76	1.48	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	456	ASP	C-N	10.76	1.48	1.33
4	5-L	456	ASP	C-N	10.76	1.48	1.33
4	6-L	456	ASP	C-N	10.76	1.48	1.33
4	7-L	456	ASP	C-N	10.76	1.48	1.33
4	8-L	456	ASP	C-N	10.76	1.48	1.33
5	1-M	341	ALA	C-O	-10.75	1.10	1.24
5	2-M	341	ALA	C-O	-10.75	1.10	1.24
5	3-M	341	ALA	C-O	-10.75	1.10	1.24
5	4-M	341	ALA	C-O	-10.75	1.10	1.24
5	5-M	341	ALA	C-O	-10.75	1.10	1.24
5	6-M	341	ALA	C-O	-10.75	1.10	1.24
5	7-M	341	ALA	C-O	-10.75	1.10	1.24
5	8-M	341	ALA	C-O	-10.75	1.10	1.24
4	1-F	456	ASP	C-N	10.74	1.48	1.33
5	1-S	341	ALA	C-O	-10.74	1.10	1.24
4	2-F	456	ASP	C-N	10.74	1.48	1.33
5	2-S	341	ALA	C-O	-10.74	1.10	1.24
4	3-F	456	ASP	C-N	10.74	1.48	1.33
5	3-S	341	ALA	C-O	-10.74	1.10	1.24
4	4-F	456	ASP	C-N	10.74	1.48	1.33
5	4-S	341	ALA	C-O	-10.74	1.10	1.24
4	5-F	456	ASP	C-N	10.74	1.48	1.33
5	5-S	341	ALA	C-O	-10.74	1.10	1.24
4	6-F	456	ASP	C-N	10.74	1.48	1.33
5	6-S	341	ALA	C-O	-10.74	1.10	1.24
4	7-F	456	ASP	C-N	10.74	1.48	1.33
5	7-S	341	ALA	C-O	-10.74	1.10	1.24
4	8-F	456	ASP	C-N	10.74	1.48	1.33
5	8-S	341	ALA	C-O	-10.74	1.10	1.24
6	1-H	381	LYS	CA-CB	10.73	1.71	1.53
5	1-Y	341	ALA	C-O	-10.73	1.10	1.24
6	2-H	381	LYS	CA-CB	10.73	1.71	1.53
5	2-Y	341	ALA	C-O	-10.73	1.10	1.24
6	3-H	381	LYS	CA-CB	10.73	1.71	1.53
5	3-Y	341	ALA	C-O	-10.73	1.10	1.24
6	4-H	381	LYS	CA-CB	10.73	1.71	1.53
5	4-Y	341	ALA	C-O	-10.73	1.10	1.24
6	5-H	381	LYS	CA-CB	10.73	1.71	1.53
5	5-Y	341	ALA	C-O	-10.73	1.10	1.24
6	6-H	381	LYS	CA-CB	10.73	1.71	1.53
5	6-Y	341	ALA	C-O	-10.73	1.10	1.24
6	7-H	381	LYS	CA-CB	10.73	1.71	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-Y	341	ALA	C-O	-10.73	1.10	1.24
6	8-H	381	LYS	CA-CB	10.73	1.71	1.53
5	8-Y	341	ALA	C-O	-10.73	1.10	1.24
5	1-G	333	PRO	N-CA	-10.72	1.33	1.47
5	1-S	333	PRO	N-CA	-10.72	1.33	1.47
5	2-G	333	PRO	N-CA	-10.72	1.33	1.47
5	2-S	333	PRO	N-CA	-10.72	1.33	1.47
5	3-G	333	PRO	N-CA	-10.72	1.33	1.47
5	3-S	333	PRO	N-CA	-10.72	1.33	1.47
5	4-G	333	PRO	N-CA	-10.72	1.33	1.47
5	4-S	333	PRO	N-CA	-10.72	1.33	1.47
5	5-G	333	PRO	N-CA	-10.72	1.33	1.47
5	5-S	333	PRO	N-CA	-10.72	1.33	1.47
5	6-G	333	PRO	N-CA	-10.72	1.33	1.47
5	6-S	333	PRO	N-CA	-10.72	1.33	1.47
5	7-G	333	PRO	N-CA	-10.72	1.33	1.47
5	7-S	333	PRO	N-CA	-10.72	1.33	1.47
5	8-G	333	PRO	N-CA	-10.72	1.33	1.47
5	8-S	333	PRO	N-CA	-10.72	1.33	1.47
4	1-R	456	ASP	C-N	10.72	1.48	1.33
4	2-R	456	ASP	C-N	10.72	1.48	1.33
4	3-R	456	ASP	C-N	10.72	1.48	1.33
4	4-R	456	ASP	C-N	10.72	1.48	1.33
4	5-R	456	ASP	C-N	10.72	1.48	1.33
4	6-R	456	ASP	C-N	10.72	1.48	1.33
4	7-R	456	ASP	C-N	10.72	1.48	1.33
4	8-R	456	ASP	C-N	10.72	1.48	1.33
6	1-T	381	LYS	CA-CB	10.71	1.71	1.53
6	2-T	381	LYS	CA-CB	10.71	1.71	1.53
6	3-T	381	LYS	CA-CB	10.71	1.71	1.53
6	4-T	381	LYS	CA-CB	10.71	1.71	1.53
6	5-T	381	LYS	CA-CB	10.71	1.71	1.53
6	6-T	381	LYS	CA-CB	10.71	1.71	1.53
6	7-T	381	LYS	CA-CB	10.71	1.71	1.53
6	8-T	381	LYS	CA-CB	10.71	1.71	1.53
5	1-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	2-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	3-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	4-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	5-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	6-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	7-M	401	ALA	CA-CB	-10.71	1.36	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-M	401	ALA	CA-CB	-10.71	1.36	1.53
5	1-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	2-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	3-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	4-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	5-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	6-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	7-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	8-Y	333	PRO	N-CA	-10.70	1.33	1.47
5	1-M	333	PRO	N-CA	-10.69	1.33	1.47
5	1-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	2-M	333	PRO	N-CA	-10.69	1.33	1.47
5	2-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	3-M	333	PRO	N-CA	-10.69	1.33	1.47
5	3-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	4-M	333	PRO	N-CA	-10.69	1.33	1.47
5	4-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	5-M	333	PRO	N-CA	-10.69	1.33	1.47
5	5-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	6-M	333	PRO	N-CA	-10.69	1.33	1.47
5	6-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	7-M	333	PRO	N-CA	-10.69	1.33	1.47
5	7-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	8-M	333	PRO	N-CA	-10.69	1.33	1.47
5	8-Y	401	ALA	CA-CB	-10.69	1.36	1.53
5	1-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	2-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	3-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	4-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	5-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	6-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	7-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	8-S	401	ALA	CA-CB	-10.68	1.36	1.53
5	1-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	2-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	3-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	4-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	5-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	6-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	7-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	8-S	343	ALA	CA-CB	-10.68	1.35	1.53
5	1-G	341	ALA	C-O	-10.67	1.10	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-G	341	ALA	C-O	-10.67	1.10	1.24
5	3-G	341	ALA	C-O	-10.67	1.10	1.24
5	4-G	341	ALA	C-O	-10.67	1.10	1.24
5	5-G	341	ALA	C-O	-10.67	1.10	1.24
5	6-G	341	ALA	C-O	-10.67	1.10	1.24
5	7-G	341	ALA	C-O	-10.67	1.10	1.24
5	8-G	341	ALA	C-O	-10.67	1.10	1.24
5	1-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	2-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	3-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	4-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	5-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	6-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	7-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	8-G	401	ALA	CA-CB	-10.66	1.36	1.53
5	1-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	2-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	3-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	4-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	5-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	6-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	7-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	8-G	343	ALA	CA-CB	-10.66	1.35	1.53
5	1-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	2-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	3-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	4-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	5-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	6-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	7-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	8-Y	343	ALA	CA-CB	-10.66	1.35	1.53
5	1-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	2-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	3-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	4-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	5-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	6-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	7-M	343	ALA	CA-CB	-10.65	1.35	1.53
5	8-M	343	ALA	CA-CB	-10.65	1.35	1.53
3	1-J	1509	GLN	N-CA	-10.65	1.33	1.46
3	2-J	1509	GLN	N-CA	-10.65	1.33	1.46
3	3-J	1509	GLN	N-CA	-10.65	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-J	1509	GLN	N-CA	-10.65	1.33	1.46
3	5-J	1509	GLN	N-CA	-10.65	1.33	1.46
3	6-J	1509	GLN	N-CA	-10.65	1.33	1.46
3	7-J	1509	GLN	N-CA	-10.65	1.33	1.46
3	8-J	1509	GLN	N-CA	-10.65	1.33	1.46
5	1-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	2-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	3-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	4-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	5-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	6-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	7-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	8-Y	254	ASP	N-CA	-10.63	1.33	1.46
5	1-M	254	ASP	N-CA	-10.62	1.33	1.46
5	2-M	254	ASP	N-CA	-10.62	1.33	1.46
5	3-M	254	ASP	N-CA	-10.62	1.33	1.46
5	4-M	254	ASP	N-CA	-10.62	1.33	1.46
5	5-M	254	ASP	N-CA	-10.62	1.33	1.46
5	6-M	254	ASP	N-CA	-10.62	1.33	1.46
5	7-M	254	ASP	N-CA	-10.62	1.33	1.46
5	8-M	254	ASP	N-CA	-10.62	1.33	1.46
3	1-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	2-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	3-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	4-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	5-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	6-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	7-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	8-P	1509	GLN	N-CA	-10.62	1.33	1.46
3	1-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	2-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	3-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	4-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	5-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	6-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	7-D	1509	GLN	N-CA	-10.61	1.33	1.46
3	8-D	1509	GLN	N-CA	-10.61	1.33	1.46
5	1-G	254	ASP	N-CA	-10.60	1.33	1.46
5	2-G	254	ASP	N-CA	-10.60	1.33	1.46
5	3-G	254	ASP	N-CA	-10.60	1.33	1.46
5	4-G	254	ASP	N-CA	-10.60	1.33	1.46
5	5-G	254	ASP	N-CA	-10.60	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-G	254	ASP	N-CA	-10.60	1.33	1.46
5	7-G	254	ASP	N-CA	-10.60	1.33	1.46
5	8-G	254	ASP	N-CA	-10.60	1.33	1.46
4	1-X	435	MET	C-N	10.60	1.46	1.33
4	2-X	435	MET	C-N	10.60	1.46	1.33
4	3-X	435	MET	C-N	10.60	1.46	1.33
4	4-X	435	MET	C-N	10.60	1.46	1.33
4	5-X	435	MET	C-N	10.60	1.46	1.33
4	6-X	435	MET	C-N	10.60	1.46	1.33
4	7-X	435	MET	C-N	10.60	1.46	1.33
4	8-X	435	MET	C-N	10.60	1.46	1.33
3	1-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	2-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	3-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	4-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	5-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	6-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	7-J	1450	GLU	N-CA	-10.58	1.32	1.46
3	8-J	1450	GLU	N-CA	-10.58	1.32	1.46
4	1-F	435	MET	C-N	10.57	1.46	1.33
4	2-F	435	MET	C-N	10.57	1.46	1.33
4	3-F	435	MET	C-N	10.57	1.46	1.33
4	4-F	435	MET	C-N	10.57	1.46	1.33
4	5-F	435	MET	C-N	10.57	1.46	1.33
4	6-F	435	MET	C-N	10.57	1.46	1.33
4	7-F	435	MET	C-N	10.57	1.46	1.33
4	8-F	435	MET	C-N	10.57	1.46	1.33
5	1-S	254	ASP	N-CA	-10.57	1.33	1.46
5	2-S	254	ASP	N-CA	-10.57	1.33	1.46
5	3-S	254	ASP	N-CA	-10.57	1.33	1.46
5	4-S	254	ASP	N-CA	-10.57	1.33	1.46
5	5-S	254	ASP	N-CA	-10.57	1.33	1.46
5	6-S	254	ASP	N-CA	-10.57	1.33	1.46
5	7-S	254	ASP	N-CA	-10.57	1.33	1.46
5	8-S	254	ASP	N-CA	-10.57	1.33	1.46
3	1-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	2-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	3-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	4-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	5-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	6-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	7-D	1450	GLU	N-CA	-10.56	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-D	1450	GLU	N-CA	-10.56	1.32	1.46
3	1-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	2-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	3-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	4-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	5-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	6-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	7-V	1509	GLN	N-CA	-10.54	1.33	1.46
3	8-V	1509	GLN	N-CA	-10.54	1.33	1.46
4	1-R	435	MET	C-N	10.53	1.46	1.33
4	2-R	435	MET	C-N	10.53	1.46	1.33
4	3-R	435	MET	C-N	10.53	1.46	1.33
4	4-R	435	MET	C-N	10.53	1.46	1.33
4	5-R	435	MET	C-N	10.53	1.46	1.33
4	6-R	435	MET	C-N	10.53	1.46	1.33
4	7-R	435	MET	C-N	10.53	1.46	1.33
4	8-R	435	MET	C-N	10.53	1.46	1.33
3	1-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	2-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	3-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	4-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	5-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	6-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	7-P	1450	GLU	N-CA	-10.53	1.32	1.46
3	8-P	1450	GLU	N-CA	-10.53	1.32	1.46
4	1-F	408	GLU	CA-C	-10.53	1.38	1.52
4	2-F	408	GLU	CA-C	-10.53	1.38	1.52
4	3-F	408	GLU	CA-C	-10.53	1.38	1.52
4	4-F	408	GLU	CA-C	-10.53	1.38	1.52
4	5-F	408	GLU	CA-C	-10.53	1.38	1.52
4	6-F	408	GLU	CA-C	-10.53	1.38	1.52
4	7-F	408	GLU	CA-C	-10.53	1.38	1.52
4	8-F	408	GLU	CA-C	-10.53	1.38	1.52
4	1-L	435	MET	C-N	10.52	1.46	1.33
4	2-L	435	MET	C-N	10.52	1.46	1.33
4	3-L	435	MET	C-N	10.52	1.46	1.33
4	4-L	435	MET	C-N	10.52	1.46	1.33
4	5-L	435	MET	C-N	10.52	1.46	1.33
4	6-L	435	MET	C-N	10.52	1.46	1.33
4	7-L	435	MET	C-N	10.52	1.46	1.33
4	8-L	435	MET	C-N	10.52	1.46	1.33
3	1-V	1450	GLU	N-CA	-10.51	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-V	1450	GLU	N-CA	-10.51	1.32	1.46
3	3-V	1450	GLU	N-CA	-10.51	1.32	1.46
3	4-V	1450	GLU	N-CA	-10.51	1.32	1.46
3	5-V	1450	GLU	N-CA	-10.51	1.32	1.46
3	6-V	1450	GLU	N-CA	-10.51	1.32	1.46
3	7-V	1450	GLU	N-CA	-10.51	1.32	1.46
3	8-V	1450	GLU	N-CA	-10.51	1.32	1.46
6	1-T	410	LEU	CA-C	10.50	1.67	1.52
6	2-T	410	LEU	CA-C	10.50	1.67	1.52
6	3-T	410	LEU	CA-C	10.50	1.67	1.52
6	4-T	410	LEU	CA-C	10.50	1.67	1.52
6	5-T	410	LEU	CA-C	10.50	1.67	1.52
6	6-T	410	LEU	CA-C	10.50	1.67	1.52
6	7-T	410	LEU	CA-C	10.50	1.67	1.52
6	8-T	410	LEU	CA-C	10.50	1.67	1.52
4	1-L	466	HIS	CA-C	-10.49	1.38	1.52
4	2-L	466	HIS	CA-C	-10.49	1.38	1.52
4	3-L	466	HIS	CA-C	-10.49	1.38	1.52
4	4-L	466	HIS	CA-C	-10.49	1.38	1.52
4	5-L	466	HIS	CA-C	-10.49	1.38	1.52
4	6-L	466	HIS	CA-C	-10.49	1.38	1.52
4	7-L	466	HIS	CA-C	-10.49	1.38	1.52
4	8-L	466	HIS	CA-C	-10.49	1.38	1.52
4	1-F	466	HIS	CA-C	-10.48	1.38	1.52
6	1-H	410	LEU	CA-C	10.48	1.67	1.52
4	1-R	466	HIS	CA-C	-10.48	1.38	1.52
4	1-X	466	HIS	CA-C	-10.48	1.38	1.52
4	2-F	466	HIS	CA-C	-10.48	1.38	1.52
6	2-H	410	LEU	CA-C	10.48	1.67	1.52
4	2-R	466	HIS	CA-C	-10.48	1.38	1.52
4	2-X	466	HIS	CA-C	-10.48	1.38	1.52
4	3-F	466	HIS	CA-C	-10.48	1.38	1.52
6	3-H	410	LEU	CA-C	10.48	1.67	1.52
4	3-R	466	HIS	CA-C	-10.48	1.38	1.52
4	3-X	466	HIS	CA-C	-10.48	1.38	1.52
4	4-F	466	HIS	CA-C	-10.48	1.38	1.52
6	4-H	410	LEU	CA-C	10.48	1.67	1.52
4	4-R	466	HIS	CA-C	-10.48	1.38	1.52
4	4-X	466	HIS	CA-C	-10.48	1.38	1.52
4	5-F	466	HIS	CA-C	-10.48	1.38	1.52
6	5-H	410	LEU	CA-C	10.48	1.67	1.52
4	5-R	466	HIS	CA-C	-10.48	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-X	466	HIS	CA-C	-10.48	1.38	1.52
4	6-F	466	HIS	CA-C	-10.48	1.38	1.52
6	6-H	410	LEU	CA-C	10.48	1.67	1.52
4	6-R	466	HIS	CA-C	-10.48	1.38	1.52
4	6-X	466	HIS	CA-C	-10.48	1.38	1.52
4	7-F	466	HIS	CA-C	-10.48	1.38	1.52
6	7-H	410	LEU	CA-C	10.48	1.67	1.52
4	7-R	466	HIS	CA-C	-10.48	1.38	1.52
4	7-X	466	HIS	CA-C	-10.48	1.38	1.52
4	8-F	466	HIS	CA-C	-10.48	1.38	1.52
6	8-H	410	LEU	CA-C	10.48	1.67	1.52
4	8-R	466	HIS	CA-C	-10.48	1.38	1.52
4	8-X	466	HIS	CA-C	-10.48	1.38	1.52
4	1-L	408	GLU	CA-C	-10.47	1.38	1.52
4	2-L	408	GLU	CA-C	-10.47	1.38	1.52
4	3-L	408	GLU	CA-C	-10.47	1.38	1.52
4	4-L	408	GLU	CA-C	-10.47	1.38	1.52
4	5-L	408	GLU	CA-C	-10.47	1.38	1.52
4	6-L	408	GLU	CA-C	-10.47	1.38	1.52
4	7-L	408	GLU	CA-C	-10.47	1.38	1.52
4	8-L	408	GLU	CA-C	-10.47	1.38	1.52
4	1-X	408	GLU	CA-C	-10.46	1.38	1.52
4	2-X	408	GLU	CA-C	-10.46	1.38	1.52
4	3-X	408	GLU	CA-C	-10.46	1.38	1.52
4	4-X	408	GLU	CA-C	-10.46	1.38	1.52
4	5-X	408	GLU	CA-C	-10.46	1.38	1.52
4	6-X	408	GLU	CA-C	-10.46	1.38	1.52
4	7-X	408	GLU	CA-C	-10.46	1.38	1.52
4	8-X	408	GLU	CA-C	-10.46	1.38	1.52
5	1-G	274	ARG	CA-C	-10.45	1.39	1.52
5	2-G	274	ARG	CA-C	-10.45	1.39	1.52
5	3-G	274	ARG	CA-C	-10.45	1.39	1.52
5	4-G	274	ARG	CA-C	-10.45	1.39	1.52
5	5-G	274	ARG	CA-C	-10.45	1.39	1.52
5	6-G	274	ARG	CA-C	-10.45	1.39	1.52
5	7-G	274	ARG	CA-C	-10.45	1.39	1.52
5	8-G	274	ARG	CA-C	-10.45	1.39	1.52
4	1-F	419	GLY	C-N	10.45	1.46	1.33
4	2-F	419	GLY	C-N	10.45	1.46	1.33
4	3-F	419	GLY	C-N	10.45	1.46	1.33
4	4-F	419	GLY	C-N	10.45	1.46	1.33
4	5-F	419	GLY	C-N	10.45	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	419	GLY	C-N	10.45	1.46	1.33
4	7-F	419	GLY	C-N	10.45	1.46	1.33
4	8-F	419	GLY	C-N	10.45	1.46	1.33
6	1-N	410	LEU	CA-C	10.44	1.67	1.52
6	2-N	410	LEU	CA-C	10.44	1.67	1.52
6	3-N	410	LEU	CA-C	10.44	1.67	1.52
6	4-N	410	LEU	CA-C	10.44	1.67	1.52
6	5-N	410	LEU	CA-C	10.44	1.67	1.52
6	6-N	410	LEU	CA-C	10.44	1.67	1.52
6	7-N	410	LEU	CA-C	10.44	1.67	1.52
6	8-N	410	LEU	CA-C	10.44	1.67	1.52
5	1-M	249	PRO	N-CA	10.44	1.60	1.47
6	1-Z	410	LEU	CA-C	10.44	1.67	1.52
6	2-Z	410	LEU	CA-C	10.44	1.67	1.52
6	3-Z	410	LEU	CA-C	10.44	1.67	1.52
6	4-Z	410	LEU	CA-C	10.44	1.67	1.52
6	5-Z	410	LEU	CA-C	10.44	1.67	1.52
6	6-Z	410	LEU	CA-C	10.44	1.67	1.52
6	7-Z	410	LEU	CA-C	10.44	1.67	1.52
6	8-Z	410	LEU	CA-C	10.44	1.67	1.52
4	1-R	408	GLU	CA-C	-10.44	1.38	1.52
5	2-M	249	PRO	N-CA	10.44	1.60	1.47
4	2-R	408	GLU	CA-C	-10.44	1.38	1.52
5	3-M	249	PRO	N-CA	10.44	1.60	1.47
4	3-R	408	GLU	CA-C	-10.44	1.38	1.52
5	4-M	249	PRO	N-CA	10.44	1.60	1.47
4	4-R	408	GLU	CA-C	-10.44	1.38	1.52
5	5-M	249	PRO	N-CA	10.44	1.60	1.47
4	5-R	408	GLU	CA-C	-10.44	1.38	1.52
5	6-M	249	PRO	N-CA	10.44	1.60	1.47
4	6-R	408	GLU	CA-C	-10.44	1.38	1.52
5	7-M	249	PRO	N-CA	10.44	1.60	1.47
4	7-R	408	GLU	CA-C	-10.44	1.38	1.52
5	8-M	249	PRO	N-CA	10.44	1.60	1.47
4	8-R	408	GLU	CA-C	-10.44	1.38	1.52
4	1-L	394	GLU	CA-C	10.44	1.67	1.52
4	2-L	394	GLU	CA-C	10.44	1.67	1.52
4	3-L	394	GLU	CA-C	10.44	1.67	1.52
4	4-L	394	GLU	CA-C	10.44	1.67	1.52
4	5-L	394	GLU	CA-C	10.44	1.67	1.52
4	6-L	394	GLU	CA-C	10.44	1.67	1.52
4	7-L	394	GLU	CA-C	10.44	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	394	GLU	CA-C	10.44	1.67	1.52
4	1-X	394	GLU	CA-C	10.44	1.67	1.52
4	2-X	394	GLU	CA-C	10.44	1.67	1.52
4	3-X	394	GLU	CA-C	10.44	1.67	1.52
4	4-X	394	GLU	CA-C	10.44	1.67	1.52
4	5-X	394	GLU	CA-C	10.44	1.67	1.52
4	6-X	394	GLU	CA-C	10.44	1.67	1.52
4	7-X	394	GLU	CA-C	10.44	1.67	1.52
4	8-X	394	GLU	CA-C	10.44	1.67	1.52
5	1-G	249	PRO	N-CA	10.43	1.60	1.47
5	2-G	249	PRO	N-CA	10.43	1.60	1.47
5	3-G	249	PRO	N-CA	10.43	1.60	1.47
5	4-G	249	PRO	N-CA	10.43	1.60	1.47
5	5-G	249	PRO	N-CA	10.43	1.60	1.47
5	6-G	249	PRO	N-CA	10.43	1.60	1.47
5	7-G	249	PRO	N-CA	10.43	1.60	1.47
5	8-G	249	PRO	N-CA	10.43	1.60	1.47
4	1-R	394	GLU	CA-C	10.43	1.67	1.52
4	2-R	394	GLU	CA-C	10.43	1.67	1.52
4	3-R	394	GLU	CA-C	10.43	1.67	1.52
4	4-R	394	GLU	CA-C	10.43	1.67	1.52
4	5-R	394	GLU	CA-C	10.43	1.67	1.52
4	6-R	394	GLU	CA-C	10.43	1.67	1.52
4	7-R	394	GLU	CA-C	10.43	1.67	1.52
4	8-R	394	GLU	CA-C	10.43	1.67	1.52
5	1-S	249	PRO	N-CA	10.42	1.60	1.47
5	2-S	249	PRO	N-CA	10.42	1.60	1.47
5	3-S	249	PRO	N-CA	10.42	1.60	1.47
5	4-S	249	PRO	N-CA	10.42	1.60	1.47
5	5-S	249	PRO	N-CA	10.42	1.60	1.47
5	6-S	249	PRO	N-CA	10.42	1.60	1.47
5	7-S	249	PRO	N-CA	10.42	1.60	1.47
5	8-S	249	PRO	N-CA	10.42	1.60	1.47
5	1-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	2-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	3-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	4-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	5-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	6-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	7-Y	274	ARG	CA-C	-10.42	1.39	1.52
5	8-Y	274	ARG	CA-C	-10.42	1.39	1.52
4	1-F	394	GLU	CA-C	10.41	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	394	GLU	CA-C	10.41	1.67	1.52
4	3-F	394	GLU	CA-C	10.41	1.67	1.52
4	4-F	394	GLU	CA-C	10.41	1.67	1.52
4	5-F	394	GLU	CA-C	10.41	1.67	1.52
4	6-F	394	GLU	CA-C	10.41	1.67	1.52
4	7-F	394	GLU	CA-C	10.41	1.67	1.52
4	8-F	394	GLU	CA-C	10.41	1.67	1.52
2	1-C	7	GLY	N-CA	-10.41	1.30	1.45
4	1-X	419	GLY	C-N	10.41	1.46	1.33
5	1-Y	249	PRO	N-CA	10.41	1.60	1.47
2	2-C	7	GLY	N-CA	-10.41	1.30	1.45
4	2-X	419	GLY	C-N	10.41	1.46	1.33
5	2-Y	249	PRO	N-CA	10.41	1.60	1.47
2	3-C	7	GLY	N-CA	-10.41	1.30	1.45
4	3-X	419	GLY	C-N	10.41	1.46	1.33
5	3-Y	249	PRO	N-CA	10.41	1.60	1.47
2	4-C	7	GLY	N-CA	-10.41	1.30	1.45
4	4-X	419	GLY	C-N	10.41	1.46	1.33
5	4-Y	249	PRO	N-CA	10.41	1.60	1.47
2	5-C	7	GLY	N-CA	-10.41	1.30	1.45
4	5-X	419	GLY	C-N	10.41	1.46	1.33
5	5-Y	249	PRO	N-CA	10.41	1.60	1.47
2	6-C	7	GLY	N-CA	-10.41	1.30	1.45
4	6-X	419	GLY	C-N	10.41	1.46	1.33
5	6-Y	249	PRO	N-CA	10.41	1.60	1.47
2	7-C	7	GLY	N-CA	-10.41	1.30	1.45
4	7-X	419	GLY	C-N	10.41	1.46	1.33
5	7-Y	249	PRO	N-CA	10.41	1.60	1.47
2	8-C	7	GLY	N-CA	-10.41	1.30	1.45
4	8-X	419	GLY	C-N	10.41	1.46	1.33
5	8-Y	249	PRO	N-CA	10.41	1.60	1.47
5	1-M	274	ARG	CA-C	-10.41	1.39	1.52
5	2-M	274	ARG	CA-C	-10.41	1.39	1.52
5	3-M	274	ARG	CA-C	-10.41	1.39	1.52
5	4-M	274	ARG	CA-C	-10.41	1.39	1.52
5	5-M	274	ARG	CA-C	-10.41	1.39	1.52
5	6-M	274	ARG	CA-C	-10.41	1.39	1.52
5	7-M	274	ARG	CA-C	-10.41	1.39	1.52
5	8-M	274	ARG	CA-C	-10.41	1.39	1.52
6	1-N	366	ILE	N-CA	-10.40	1.34	1.46
6	2-N	366	ILE	N-CA	-10.40	1.34	1.46
6	3-N	366	ILE	N-CA	-10.40	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-N	366	ILE	N-CA	-10.40	1.34	1.46
6	5-N	366	ILE	N-CA	-10.40	1.34	1.46
6	6-N	366	ILE	N-CA	-10.40	1.34	1.46
6	7-N	366	ILE	N-CA	-10.40	1.34	1.46
6	8-N	366	ILE	N-CA	-10.40	1.34	1.46
3	1-V	1519	SER	N-CA	-10.40	1.32	1.46
3	2-V	1519	SER	N-CA	-10.40	1.32	1.46
3	3-V	1519	SER	N-CA	-10.40	1.32	1.46
3	4-V	1519	SER	N-CA	-10.40	1.32	1.46
3	5-V	1519	SER	N-CA	-10.40	1.32	1.46
3	6-V	1519	SER	N-CA	-10.40	1.32	1.46
3	7-V	1519	SER	N-CA	-10.40	1.32	1.46
3	8-V	1519	SER	N-CA	-10.40	1.32	1.46
6	1-N	357	GLN	CA-C	-10.40	1.39	1.52
6	2-N	357	GLN	CA-C	-10.40	1.39	1.52
6	3-N	357	GLN	CA-C	-10.40	1.39	1.52
6	4-N	357	GLN	CA-C	-10.40	1.39	1.52
6	5-N	357	GLN	CA-C	-10.40	1.39	1.52
6	6-N	357	GLN	CA-C	-10.40	1.39	1.52
6	7-N	357	GLN	CA-C	-10.40	1.39	1.52
6	8-N	357	GLN	CA-C	-10.40	1.39	1.52
4	1-L	419	GLY	C-N	10.39	1.46	1.33
5	1-S	274	ARG	CA-C	-10.39	1.39	1.52
4	2-L	419	GLY	C-N	10.39	1.46	1.33
5	2-S	274	ARG	CA-C	-10.39	1.39	1.52
4	3-L	419	GLY	C-N	10.39	1.46	1.33
5	3-S	274	ARG	CA-C	-10.39	1.39	1.52
4	4-L	419	GLY	C-N	10.39	1.46	1.33
5	4-S	274	ARG	CA-C	-10.39	1.39	1.52
4	5-L	419	GLY	C-N	10.39	1.46	1.33
5	5-S	274	ARG	CA-C	-10.39	1.39	1.52
4	6-L	419	GLY	C-N	10.39	1.46	1.33
5	6-S	274	ARG	CA-C	-10.39	1.39	1.52
4	7-L	419	GLY	C-N	10.39	1.46	1.33
5	7-S	274	ARG	CA-C	-10.39	1.39	1.52
4	8-L	419	GLY	C-N	10.39	1.46	1.33
5	8-S	274	ARG	CA-C	-10.39	1.39	1.52
2	1-I	7	GLY	N-CA	-10.38	1.30	1.45
2	1-O	7	GLY	N-CA	-10.38	1.30	1.45
2	2-I	7	GLY	N-CA	-10.38	1.30	1.45
2	2-O	7	GLY	N-CA	-10.38	1.30	1.45
2	3-I	7	GLY	N-CA	-10.38	1.30	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-O	7	GLY	N-CA	-10.38	1.30	1.45
2	4-I	7	GLY	N-CA	-10.38	1.30	1.45
2	4-O	7	GLY	N-CA	-10.38	1.30	1.45
2	5-I	7	GLY	N-CA	-10.38	1.30	1.45
2	5-O	7	GLY	N-CA	-10.38	1.30	1.45
2	6-I	7	GLY	N-CA	-10.38	1.30	1.45
2	6-O	7	GLY	N-CA	-10.38	1.30	1.45
2	7-I	7	GLY	N-CA	-10.38	1.30	1.45
2	7-O	7	GLY	N-CA	-10.38	1.30	1.45
2	8-I	7	GLY	N-CA	-10.38	1.30	1.45
2	8-O	7	GLY	N-CA	-10.38	1.30	1.45
4	1-R	419	GLY	C-N	10.37	1.46	1.33
4	2-R	419	GLY	C-N	10.37	1.46	1.33
4	3-R	419	GLY	C-N	10.37	1.46	1.33
4	4-R	419	GLY	C-N	10.37	1.46	1.33
4	5-R	419	GLY	C-N	10.37	1.46	1.33
4	6-R	419	GLY	C-N	10.37	1.46	1.33
4	7-R	419	GLY	C-N	10.37	1.46	1.33
4	8-R	419	GLY	C-N	10.37	1.46	1.33
6	1-T	357	GLN	CA-C	-10.37	1.39	1.52
2	1-U	7	GLY	N-CA	-10.37	1.30	1.45
6	2-T	357	GLN	CA-C	-10.37	1.39	1.52
2	2-U	7	GLY	N-CA	-10.37	1.30	1.45
6	3-T	357	GLN	CA-C	-10.37	1.39	1.52
2	3-U	7	GLY	N-CA	-10.37	1.30	1.45
6	4-T	357	GLN	CA-C	-10.37	1.39	1.52
2	4-U	7	GLY	N-CA	-10.37	1.30	1.45
6	5-T	357	GLN	CA-C	-10.37	1.39	1.52
2	5-U	7	GLY	N-CA	-10.37	1.30	1.45
6	6-T	357	GLN	CA-C	-10.37	1.39	1.52
2	6-U	7	GLY	N-CA	-10.37	1.30	1.45
6	7-T	357	GLN	CA-C	-10.37	1.39	1.52
2	7-U	7	GLY	N-CA	-10.37	1.30	1.45
6	8-T	357	GLN	CA-C	-10.37	1.39	1.52
2	8-U	7	GLY	N-CA	-10.37	1.30	1.45
6	1-Z	366	ILE	N-CA	-10.36	1.34	1.46
6	2-Z	366	ILE	N-CA	-10.36	1.34	1.46
6	3-Z	366	ILE	N-CA	-10.36	1.34	1.46
6	4-Z	366	ILE	N-CA	-10.36	1.34	1.46
6	5-Z	366	ILE	N-CA	-10.36	1.34	1.46
6	6-Z	366	ILE	N-CA	-10.36	1.34	1.46
6	7-Z	366	ILE	N-CA	-10.36	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	366	ILE	N-CA	-10.36	1.34	1.46
3	1-P	1519	SER	N-CA	-10.36	1.32	1.46
3	2-P	1519	SER	N-CA	-10.36	1.32	1.46
3	3-P	1519	SER	N-CA	-10.36	1.32	1.46
3	4-P	1519	SER	N-CA	-10.36	1.32	1.46
3	5-P	1519	SER	N-CA	-10.36	1.32	1.46
3	6-P	1519	SER	N-CA	-10.36	1.32	1.46
3	7-P	1519	SER	N-CA	-10.36	1.32	1.46
3	8-P	1519	SER	N-CA	-10.36	1.32	1.46
4	1-F	307	ILE	N-CA	10.35	1.58	1.46
4	2-F	307	ILE	N-CA	10.35	1.58	1.46
4	3-F	307	ILE	N-CA	10.35	1.58	1.46
4	4-F	307	ILE	N-CA	10.35	1.58	1.46
4	5-F	307	ILE	N-CA	10.35	1.58	1.46
4	6-F	307	ILE	N-CA	10.35	1.58	1.46
4	7-F	307	ILE	N-CA	10.35	1.58	1.46
4	8-F	307	ILE	N-CA	10.35	1.58	1.46
6	1-H	357	GLN	CA-C	-10.35	1.39	1.52
4	1-L	320	GLU	N-CA	10.35	1.59	1.46
6	2-H	357	GLN	CA-C	-10.35	1.39	1.52
4	2-L	320	GLU	N-CA	10.35	1.59	1.46
6	3-H	357	GLN	CA-C	-10.35	1.39	1.52
4	3-L	320	GLU	N-CA	10.35	1.59	1.46
6	4-H	357	GLN	CA-C	-10.35	1.39	1.52
4	4-L	320	GLU	N-CA	10.35	1.59	1.46
6	5-H	357	GLN	CA-C	-10.35	1.39	1.52
4	5-L	320	GLU	N-CA	10.35	1.59	1.46
6	6-H	357	GLN	CA-C	-10.35	1.39	1.52
4	6-L	320	GLU	N-CA	10.35	1.59	1.46
6	7-H	357	GLN	CA-C	-10.35	1.39	1.52
4	7-L	320	GLU	N-CA	10.35	1.59	1.46
6	8-H	357	GLN	CA-C	-10.35	1.39	1.52
4	8-L	320	GLU	N-CA	10.35	1.59	1.46
6	1-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	2-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	3-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	4-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	5-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	6-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	7-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	8-Z	357	GLN	CA-C	-10.34	1.39	1.52
6	1-T	366	ILE	N-CA	-10.34	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-X	320	GLU	N-CA	10.34	1.59	1.46
6	2-T	366	ILE	N-CA	-10.34	1.34	1.46
4	2-X	320	GLU	N-CA	10.34	1.59	1.46
6	3-T	366	ILE	N-CA	-10.34	1.34	1.46
4	3-X	320	GLU	N-CA	10.34	1.59	1.46
6	4-T	366	ILE	N-CA	-10.34	1.34	1.46
4	4-X	320	GLU	N-CA	10.34	1.59	1.46
6	5-T	366	ILE	N-CA	-10.34	1.34	1.46
4	5-X	320	GLU	N-CA	10.34	1.59	1.46
6	6-T	366	ILE	N-CA	-10.34	1.34	1.46
4	6-X	320	GLU	N-CA	10.34	1.59	1.46
6	7-T	366	ILE	N-CA	-10.34	1.34	1.46
4	7-X	320	GLU	N-CA	10.34	1.59	1.46
6	8-T	366	ILE	N-CA	-10.34	1.34	1.46
4	8-X	320	GLU	N-CA	10.34	1.59	1.46
4	1-R	320	GLU	N-CA	10.33	1.59	1.46
4	1-X	307	ILE	N-CA	10.33	1.58	1.46
4	2-R	320	GLU	N-CA	10.33	1.59	1.46
4	2-X	307	ILE	N-CA	10.33	1.58	1.46
4	3-R	320	GLU	N-CA	10.33	1.59	1.46
4	3-X	307	ILE	N-CA	10.33	1.58	1.46
4	4-R	320	GLU	N-CA	10.33	1.59	1.46
4	4-X	307	ILE	N-CA	10.33	1.58	1.46
4	5-R	320	GLU	N-CA	10.33	1.59	1.46
4	5-X	307	ILE	N-CA	10.33	1.58	1.46
4	6-R	320	GLU	N-CA	10.33	1.59	1.46
4	6-X	307	ILE	N-CA	10.33	1.58	1.46
4	7-R	320	GLU	N-CA	10.33	1.59	1.46
4	7-X	307	ILE	N-CA	10.33	1.58	1.46
4	8-R	320	GLU	N-CA	10.33	1.59	1.46
4	8-X	307	ILE	N-CA	10.33	1.58	1.46
3	1-J	1519	SER	N-CA	-10.32	1.32	1.46
3	2-J	1519	SER	N-CA	-10.32	1.32	1.46
3	3-J	1519	SER	N-CA	-10.32	1.32	1.46
3	4-J	1519	SER	N-CA	-10.32	1.32	1.46
3	5-J	1519	SER	N-CA	-10.32	1.32	1.46
3	6-J	1519	SER	N-CA	-10.32	1.32	1.46
3	7-J	1519	SER	N-CA	-10.32	1.32	1.46
3	8-J	1519	SER	N-CA	-10.32	1.32	1.46
4	1-R	307	ILE	N-CA	10.32	1.58	1.46
4	2-R	307	ILE	N-CA	10.32	1.58	1.46
4	3-R	307	ILE	N-CA	10.32	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	307	ILE	N-CA	10.32	1.58	1.46
4	5-R	307	ILE	N-CA	10.32	1.58	1.46
4	6-R	307	ILE	N-CA	10.32	1.58	1.46
4	7-R	307	ILE	N-CA	10.32	1.58	1.46
4	8-R	307	ILE	N-CA	10.32	1.58	1.46
3	1-D	1519	SER	N-CA	-10.32	1.32	1.46
3	2-D	1519	SER	N-CA	-10.32	1.32	1.46
3	3-D	1519	SER	N-CA	-10.32	1.32	1.46
3	4-D	1519	SER	N-CA	-10.32	1.32	1.46
3	5-D	1519	SER	N-CA	-10.32	1.32	1.46
3	6-D	1519	SER	N-CA	-10.32	1.32	1.46
3	7-D	1519	SER	N-CA	-10.32	1.32	1.46
3	8-D	1519	SER	N-CA	-10.32	1.32	1.46
6	1-H	366	ILE	N-CA	-10.31	1.34	1.46
6	2-H	366	ILE	N-CA	-10.31	1.34	1.46
6	3-H	366	ILE	N-CA	-10.31	1.34	1.46
6	4-H	366	ILE	N-CA	-10.31	1.34	1.46
6	5-H	366	ILE	N-CA	-10.31	1.34	1.46
6	6-H	366	ILE	N-CA	-10.31	1.34	1.46
6	7-H	366	ILE	N-CA	-10.31	1.34	1.46
6	8-H	366	ILE	N-CA	-10.31	1.34	1.46
4	1-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	2-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	3-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	4-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	5-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	6-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	7-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	8-L	485	LEU	CA-CB	-10.30	1.35	1.53
4	1-F	320	GLU	N-CA	10.30	1.59	1.46
4	1-L	307	ILE	N-CA	10.30	1.58	1.46
4	2-F	320	GLU	N-CA	10.30	1.59	1.46
4	2-L	307	ILE	N-CA	10.30	1.58	1.46
4	3-F	320	GLU	N-CA	10.30	1.59	1.46
4	3-L	307	ILE	N-CA	10.30	1.58	1.46
4	4-F	320	GLU	N-CA	10.30	1.59	1.46
4	4-L	307	ILE	N-CA	10.30	1.58	1.46
4	5-F	320	GLU	N-CA	10.30	1.59	1.46
4	5-L	307	ILE	N-CA	10.30	1.58	1.46
4	6-F	320	GLU	N-CA	10.30	1.59	1.46
4	6-L	307	ILE	N-CA	10.30	1.58	1.46
4	7-F	320	GLU	N-CA	10.30	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-L	307	ILE	N-CA	10.30	1.58	1.46
4	8-F	320	GLU	N-CA	10.30	1.59	1.46
4	8-L	307	ILE	N-CA	10.30	1.58	1.46
4	1-F	443	HIS	CA-C	10.29	1.66	1.52
4	1-L	443	HIS	CA-C	10.29	1.66	1.52
4	2-F	443	HIS	CA-C	10.29	1.66	1.52
4	2-L	443	HIS	CA-C	10.29	1.66	1.52
4	3-F	443	HIS	CA-C	10.29	1.66	1.52
4	3-L	443	HIS	CA-C	10.29	1.66	1.52
4	4-F	443	HIS	CA-C	10.29	1.66	1.52
4	4-L	443	HIS	CA-C	10.29	1.66	1.52
4	5-F	443	HIS	CA-C	10.29	1.66	1.52
4	5-L	443	HIS	CA-C	10.29	1.66	1.52
4	6-F	443	HIS	CA-C	10.29	1.66	1.52
4	6-L	443	HIS	CA-C	10.29	1.66	1.52
4	7-F	443	HIS	CA-C	10.29	1.66	1.52
4	7-L	443	HIS	CA-C	10.29	1.66	1.52
4	8-F	443	HIS	CA-C	10.29	1.66	1.52
4	8-L	443	HIS	CA-C	10.29	1.66	1.52
4	1-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	2-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	3-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	4-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	5-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	6-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	7-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	8-F	485	LEU	CA-CB	-10.28	1.36	1.53
4	1-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	2-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	3-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	4-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	5-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	6-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	7-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	8-R	485	LEU	CA-CB	-10.27	1.36	1.53
4	1-X	443	HIS	CA-C	10.27	1.66	1.52
4	2-X	443	HIS	CA-C	10.27	1.66	1.52
4	3-X	443	HIS	CA-C	10.27	1.66	1.52
4	4-X	443	HIS	CA-C	10.27	1.66	1.52
4	5-X	443	HIS	CA-C	10.27	1.66	1.52
4	6-X	443	HIS	CA-C	10.27	1.66	1.52
4	7-X	443	HIS	CA-C	10.27	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	443	HIS	CA-C	10.27	1.66	1.52
4	1-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	2-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	3-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	4-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	5-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	6-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	7-X	485	LEU	CA-CB	-10.26	1.36	1.53
4	8-X	485	LEU	CA-CB	-10.26	1.36	1.53
5	1-M	252	CYS	CA-CB	10.26	1.68	1.53
5	2-M	252	CYS	CA-CB	10.26	1.68	1.53
5	3-M	252	CYS	CA-CB	10.26	1.68	1.53
5	4-M	252	CYS	CA-CB	10.26	1.68	1.53
5	5-M	252	CYS	CA-CB	10.26	1.68	1.53
5	6-M	252	CYS	CA-CB	10.26	1.68	1.53
5	7-M	252	CYS	CA-CB	10.26	1.68	1.53
5	8-M	252	CYS	CA-CB	10.26	1.68	1.53
5	1-G	380	ILE	CA-C	10.26	1.66	1.52
5	2-G	380	ILE	CA-C	10.26	1.66	1.52
5	3-G	380	ILE	CA-C	10.26	1.66	1.52
5	4-G	380	ILE	CA-C	10.26	1.66	1.52
5	5-G	380	ILE	CA-C	10.26	1.66	1.52
5	6-G	380	ILE	CA-C	10.26	1.66	1.52
5	7-G	380	ILE	CA-C	10.26	1.66	1.52
5	8-G	380	ILE	CA-C	10.26	1.66	1.52
5	1-S	252	CYS	CA-CB	10.24	1.68	1.53
5	2-S	252	CYS	CA-CB	10.24	1.68	1.53
5	3-S	252	CYS	CA-CB	10.24	1.68	1.53
5	4-S	252	CYS	CA-CB	10.24	1.68	1.53
5	5-S	252	CYS	CA-CB	10.24	1.68	1.53
5	6-S	252	CYS	CA-CB	10.24	1.68	1.53
5	7-S	252	CYS	CA-CB	10.24	1.68	1.53
5	8-S	252	CYS	CA-CB	10.24	1.68	1.53
5	1-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	2-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	3-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	4-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	5-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	6-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	7-Y	252	CYS	CA-CB	10.22	1.68	1.53
5	8-Y	252	CYS	CA-CB	10.22	1.68	1.53
4	1-R	443	HIS	CA-C	10.22	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	443	HIS	CA-C	10.22	1.66	1.52
4	3-R	443	HIS	CA-C	10.22	1.66	1.52
4	4-R	443	HIS	CA-C	10.22	1.66	1.52
4	5-R	443	HIS	CA-C	10.22	1.66	1.52
4	6-R	443	HIS	CA-C	10.22	1.66	1.52
4	7-R	443	HIS	CA-C	10.22	1.66	1.52
4	8-R	443	HIS	CA-C	10.22	1.66	1.52
3	1-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	2-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	3-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	4-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	5-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	6-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	7-V	1510	GLN	N-CA	-10.21	1.33	1.46
3	8-V	1510	GLN	N-CA	-10.21	1.33	1.46
5	1-G	334	GLY	CA-C	10.19	1.63	1.52
5	2-G	334	GLY	CA-C	10.19	1.63	1.52
5	3-G	334	GLY	CA-C	10.19	1.63	1.52
5	4-G	334	GLY	CA-C	10.19	1.63	1.52
5	5-G	334	GLY	CA-C	10.19	1.63	1.52
5	6-G	334	GLY	CA-C	10.19	1.63	1.52
5	7-G	334	GLY	CA-C	10.19	1.63	1.52
5	8-G	334	GLY	CA-C	10.19	1.63	1.52
3	1-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	1-N	488	ILE	N-CA	-10.16	1.33	1.46
3	2-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	2-N	488	ILE	N-CA	-10.16	1.33	1.46
3	3-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	3-N	488	ILE	N-CA	-10.16	1.33	1.46
3	4-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	4-N	488	ILE	N-CA	-10.16	1.33	1.46
3	5-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	5-N	488	ILE	N-CA	-10.16	1.33	1.46
3	6-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	6-N	488	ILE	N-CA	-10.16	1.33	1.46
3	7-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	7-N	488	ILE	N-CA	-10.16	1.33	1.46
3	8-J	1510	GLN	N-CA	-10.16	1.33	1.46
6	8-N	488	ILE	N-CA	-10.16	1.33	1.46
6	1-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	2-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	3-H	370	GLU	CA-CB	-10.16	1.37	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	5-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	6-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	7-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	8-H	370	GLU	CA-CB	-10.16	1.37	1.53
6	1-H	488	ILE	N-CA	-10.16	1.33	1.46
6	2-H	488	ILE	N-CA	-10.16	1.33	1.46
6	3-H	488	ILE	N-CA	-10.16	1.33	1.46
6	4-H	488	ILE	N-CA	-10.16	1.33	1.46
6	5-H	488	ILE	N-CA	-10.16	1.33	1.46
6	6-H	488	ILE	N-CA	-10.16	1.33	1.46
6	7-H	488	ILE	N-CA	-10.16	1.33	1.46
6	8-H	488	ILE	N-CA	-10.16	1.33	1.46
6	1-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	2-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	3-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	4-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	5-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	6-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	7-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	8-N	370	GLU	CA-CB	-10.15	1.37	1.53
6	1-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	1-X	394	GLU	C-N	10.15	1.46	1.33
6	2-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	2-X	394	GLU	C-N	10.15	1.46	1.33
6	3-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	3-X	394	GLU	C-N	10.15	1.46	1.33
6	4-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	4-X	394	GLU	C-N	10.15	1.46	1.33
6	5-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	5-X	394	GLU	C-N	10.15	1.46	1.33
6	6-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	6-X	394	GLU	C-N	10.15	1.46	1.33
6	7-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	7-X	394	GLU	C-N	10.15	1.46	1.33
6	8-N	446	ARG	CA-CB	-10.15	1.37	1.53
4	8-X	394	GLU	C-N	10.15	1.46	1.33
5	1-G	252	CYS	CA-CB	10.15	1.68	1.53
5	1-S	334	GLY	CA-C	10.15	1.63	1.52
5	2-G	252	CYS	CA-CB	10.15	1.68	1.53
5	2-S	334	GLY	CA-C	10.15	1.63	1.52
5	3-G	252	CYS	CA-CB	10.15	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-S	334	GLY	CA-C	10.15	1.63	1.52
5	4-G	252	CYS	CA-CB	10.15	1.68	1.53
5	4-S	334	GLY	CA-C	10.15	1.63	1.52
5	5-G	252	CYS	CA-CB	10.15	1.68	1.53
5	5-S	334	GLY	CA-C	10.15	1.63	1.52
5	6-G	252	CYS	CA-CB	10.15	1.68	1.53
5	6-S	334	GLY	CA-C	10.15	1.63	1.52
5	7-G	252	CYS	CA-CB	10.15	1.68	1.53
5	7-S	334	GLY	CA-C	10.15	1.63	1.52
5	8-G	252	CYS	CA-CB	10.15	1.68	1.53
5	8-S	334	GLY	CA-C	10.15	1.63	1.52
5	1-M	334	GLY	CA-C	10.14	1.63	1.52
5	2-M	334	GLY	CA-C	10.14	1.63	1.52
5	3-M	334	GLY	CA-C	10.14	1.63	1.52
5	4-M	334	GLY	CA-C	10.14	1.63	1.52
5	5-M	334	GLY	CA-C	10.14	1.63	1.52
5	6-M	334	GLY	CA-C	10.14	1.63	1.52
5	7-M	334	GLY	CA-C	10.14	1.63	1.52
5	8-M	334	GLY	CA-C	10.14	1.63	1.52
6	1-T	488	ILE	N-CA	-10.13	1.33	1.46
6	2-T	488	ILE	N-CA	-10.13	1.33	1.46
6	3-T	488	ILE	N-CA	-10.13	1.33	1.46
6	4-T	488	ILE	N-CA	-10.13	1.33	1.46
6	5-T	488	ILE	N-CA	-10.13	1.33	1.46
6	6-T	488	ILE	N-CA	-10.13	1.33	1.46
6	7-T	488	ILE	N-CA	-10.13	1.33	1.46
6	8-T	488	ILE	N-CA	-10.13	1.33	1.46
6	1-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	1-P	1510	GLN	N-CA	-10.13	1.33	1.46
5	1-Y	334	GLY	CA-C	10.13	1.63	1.52
5	2-Y	334	GLY	CA-C	10.13	1.63	1.52
6	2-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	2-P	1510	GLN	N-CA	-10.13	1.33	1.46
6	3-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	3-P	1510	GLN	N-CA	-10.13	1.33	1.46
5	3-Y	334	GLY	CA-C	10.13	1.63	1.52
5	4-Y	334	GLY	CA-C	10.13	1.63	1.52
6	4-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	4-P	1510	GLN	N-CA	-10.13	1.33	1.46
6	5-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	5-P	1510	GLN	N-CA	-10.13	1.33	1.46
5	5-Y	334	GLY	CA-C	10.13	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-Y	334	GLY	CA-C	10.13	1.63	1.52
6	6-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	6-P	1510	GLN	N-CA	-10.13	1.33	1.46
6	7-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	7-P	1510	GLN	N-CA	-10.13	1.33	1.46
5	7-Y	334	GLY	CA-C	10.13	1.63	1.52
5	8-Y	334	GLY	CA-C	10.13	1.63	1.52
6	8-H	446	ARG	CA-CB	-10.13	1.37	1.53
3	8-P	1510	GLN	N-CA	-10.13	1.33	1.46
4	1-L	404	GLN	CA-CB	10.13	1.67	1.53
6	1-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	2-L	404	GLN	CA-CB	10.13	1.67	1.53
6	2-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	3-L	404	GLN	CA-CB	10.13	1.67	1.53
6	3-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	4-L	404	GLN	CA-CB	10.13	1.67	1.53
6	4-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	5-L	404	GLN	CA-CB	10.13	1.67	1.53
6	5-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	6-L	404	GLN	CA-CB	10.13	1.67	1.53
6	6-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	7-L	404	GLN	CA-CB	10.13	1.67	1.53
6	7-T	370	GLU	CA-CB	-10.13	1.37	1.53
4	8-L	404	GLN	CA-CB	10.13	1.67	1.53
6	8-T	370	GLU	CA-CB	-10.13	1.37	1.53
6	1-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	2-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	3-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	4-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	5-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	6-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	7-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	8-T	446	ARG	CA-CB	-10.12	1.37	1.53
6	1-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	2-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	3-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	4-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	5-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	6-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	7-Z	446	ARG	CA-CB	-10.12	1.37	1.53
6	8-Z	446	ARG	CA-CB	-10.12	1.37	1.53
3	1-D	1510	GLN	N-CA	-10.12	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-D	1510	GLN	N-CA	-10.12	1.33	1.46
3	3-D	1510	GLN	N-CA	-10.12	1.33	1.46
3	4-D	1510	GLN	N-CA	-10.12	1.33	1.46
3	5-D	1510	GLN	N-CA	-10.12	1.33	1.46
3	6-D	1510	GLN	N-CA	-10.12	1.33	1.46
3	7-D	1510	GLN	N-CA	-10.12	1.33	1.46
3	8-D	1510	GLN	N-CA	-10.12	1.33	1.46
6	1-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	2-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	3-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	4-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	5-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	6-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	7-Z	488	ILE	N-CA	-10.11	1.33	1.46
6	8-Z	488	ILE	N-CA	-10.11	1.33	1.46
4	1-R	394	GLU	C-N	10.09	1.46	1.33
6	1-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	2-R	394	GLU	C-N	10.09	1.46	1.33
6	2-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	3-R	394	GLU	C-N	10.09	1.46	1.33
6	3-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	4-R	394	GLU	C-N	10.09	1.46	1.33
6	4-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	5-R	394	GLU	C-N	10.09	1.46	1.33
6	5-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	6-R	394	GLU	C-N	10.09	1.46	1.33
6	6-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	7-R	394	GLU	C-N	10.09	1.46	1.33
6	7-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	8-R	394	GLU	C-N	10.09	1.46	1.33
6	8-Z	370	GLU	CA-CB	-10.09	1.37	1.53
4	1-L	394	GLU	C-N	10.08	1.46	1.33
4	2-L	394	GLU	C-N	10.08	1.46	1.33
4	3-L	394	GLU	C-N	10.08	1.46	1.33
4	4-L	394	GLU	C-N	10.08	1.46	1.33
4	5-L	394	GLU	C-N	10.08	1.46	1.33
4	6-L	394	GLU	C-N	10.08	1.46	1.33
4	7-L	394	GLU	C-N	10.08	1.46	1.33
4	8-L	394	GLU	C-N	10.08	1.46	1.33
4	1-R	404	GLN	CA-CB	10.08	1.67	1.53
4	2-R	404	GLN	CA-CB	10.08	1.67	1.53
4	3-R	404	GLN	CA-CB	10.08	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	404	GLN	CA-CB	10.08	1.67	1.53
4	5-R	404	GLN	CA-CB	10.08	1.67	1.53
4	6-R	404	GLN	CA-CB	10.08	1.67	1.53
4	7-R	404	GLN	CA-CB	10.08	1.67	1.53
4	8-R	404	GLN	CA-CB	10.08	1.67	1.53
4	1-F	404	GLN	CA-CB	10.07	1.67	1.53
4	2-F	404	GLN	CA-CB	10.07	1.67	1.53
4	3-F	404	GLN	CA-CB	10.07	1.67	1.53
4	4-F	404	GLN	CA-CB	10.07	1.67	1.53
4	5-F	404	GLN	CA-CB	10.07	1.67	1.53
4	6-F	404	GLN	CA-CB	10.07	1.67	1.53
4	7-F	404	GLN	CA-CB	10.07	1.67	1.53
4	8-F	404	GLN	CA-CB	10.07	1.67	1.53
4	1-F	394	GLU	C-N	10.07	1.46	1.33
4	2-F	394	GLU	C-N	10.07	1.46	1.33
4	3-F	394	GLU	C-N	10.07	1.46	1.33
4	4-F	394	GLU	C-N	10.07	1.46	1.33
4	5-F	394	GLU	C-N	10.07	1.46	1.33
4	6-F	394	GLU	C-N	10.07	1.46	1.33
4	7-F	394	GLU	C-N	10.07	1.46	1.33
4	8-F	394	GLU	C-N	10.07	1.46	1.33
6	1-T	467	THR	CA-C	-10.06	1.39	1.52
6	2-T	467	THR	CA-C	-10.06	1.39	1.52
6	3-T	467	THR	CA-C	-10.06	1.39	1.52
6	4-T	467	THR	CA-C	-10.06	1.39	1.52
6	5-T	467	THR	CA-C	-10.06	1.39	1.52
6	6-T	467	THR	CA-C	-10.06	1.39	1.52
6	7-T	467	THR	CA-C	-10.06	1.39	1.52
6	8-T	467	THR	CA-C	-10.06	1.39	1.52
4	1-X	404	GLN	CA-CB	10.06	1.67	1.53
4	2-X	404	GLN	CA-CB	10.06	1.67	1.53
4	3-X	404	GLN	CA-CB	10.06	1.67	1.53
4	4-X	404	GLN	CA-CB	10.06	1.67	1.53
4	5-X	404	GLN	CA-CB	10.06	1.67	1.53
4	6-X	404	GLN	CA-CB	10.06	1.67	1.53
4	7-X	404	GLN	CA-CB	10.06	1.67	1.53
4	8-X	404	GLN	CA-CB	10.06	1.67	1.53
3	1-D	1475	ALA	N-CA	-10.04	1.34	1.46
3	2-D	1475	ALA	N-CA	-10.04	1.34	1.46
3	3-D	1475	ALA	N-CA	-10.04	1.34	1.46
3	4-D	1475	ALA	N-CA	-10.04	1.34	1.46
3	5-D	1475	ALA	N-CA	-10.04	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-D	1475	ALA	N-CA	-10.04	1.34	1.46
3	7-D	1475	ALA	N-CA	-10.04	1.34	1.46
3	8-D	1475	ALA	N-CA	-10.04	1.34	1.46
6	1-N	403	LEU	CA-C	-10.04	1.38	1.52
6	2-N	403	LEU	CA-C	-10.04	1.38	1.52
6	3-N	403	LEU	CA-C	-10.04	1.38	1.52
6	4-N	403	LEU	CA-C	-10.04	1.38	1.52
6	5-N	403	LEU	CA-C	-10.04	1.38	1.52
6	6-N	403	LEU	CA-C	-10.04	1.38	1.52
6	7-N	403	LEU	CA-C	-10.04	1.38	1.52
6	8-N	403	LEU	CA-C	-10.04	1.38	1.52
3	1-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	2-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	3-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	4-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	5-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	6-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	7-J	1475	ALA	N-CA	-10.02	1.34	1.46
3	8-J	1475	ALA	N-CA	-10.02	1.34	1.46
6	1-T	403	LEU	CA-C	-10.01	1.38	1.52
6	2-T	403	LEU	CA-C	-10.01	1.38	1.52
6	3-T	403	LEU	CA-C	-10.01	1.38	1.52
6	4-T	403	LEU	CA-C	-10.01	1.38	1.52
6	5-T	403	LEU	CA-C	-10.01	1.38	1.52
6	6-T	403	LEU	CA-C	-10.01	1.38	1.52
6	7-T	403	LEU	CA-C	-10.01	1.38	1.52
6	8-T	403	LEU	CA-C	-10.01	1.38	1.52
3	1-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	2-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	3-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	4-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	5-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	6-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	7-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	8-P	1475	ALA	N-CA	-10.01	1.34	1.46
3	1-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	1-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	2-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	2-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	3-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	3-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	4-J	1547	LEU	N-CA	-10.00	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	5-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	5-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	6-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	6-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	7-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	7-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	8-J	1547	LEU	N-CA	-10.00	1.33	1.46
6	8-Z	403	LEU	CA-C	-10.00	1.38	1.52
3	1-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	2-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	3-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	4-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	5-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	6-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	7-D	1547	LEU	N-CA	-9.99	1.33	1.46
3	8-D	1547	LEU	N-CA	-9.99	1.33	1.46
6	1-N	467	THR	CA-C	-9.98	1.39	1.52
6	1-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	2-N	467	THR	CA-C	-9.98	1.39	1.52
6	2-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	3-N	467	THR	CA-C	-9.98	1.39	1.52
6	3-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	4-N	467	THR	CA-C	-9.98	1.39	1.52
6	4-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	5-N	467	THR	CA-C	-9.98	1.39	1.52
6	5-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	6-N	467	THR	CA-C	-9.98	1.39	1.52
6	6-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	7-N	467	THR	CA-C	-9.98	1.39	1.52
6	7-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	8-N	467	THR	CA-C	-9.98	1.39	1.52
6	8-Z	487	TRP	CA-CB	9.98	1.68	1.53
6	1-H	467	THR	CA-C	-9.98	1.39	1.52
6	2-H	467	THR	CA-C	-9.98	1.39	1.52
6	3-H	467	THR	CA-C	-9.98	1.39	1.52
6	4-H	467	THR	CA-C	-9.98	1.39	1.52
6	5-H	467	THR	CA-C	-9.98	1.39	1.52
6	6-H	467	THR	CA-C	-9.98	1.39	1.52
6	7-H	467	THR	CA-C	-9.98	1.39	1.52
6	8-H	467	THR	CA-C	-9.98	1.39	1.52
6	1-H	403	LEU	CA-C	-9.97	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-H	403	LEU	CA-C	-9.97	1.38	1.52
6	3-H	403	LEU	CA-C	-9.97	1.38	1.52
6	4-H	403	LEU	CA-C	-9.97	1.38	1.52
6	5-H	403	LEU	CA-C	-9.97	1.38	1.52
6	6-H	403	LEU	CA-C	-9.97	1.38	1.52
6	7-H	403	LEU	CA-C	-9.97	1.38	1.52
6	8-H	403	LEU	CA-C	-9.97	1.38	1.52
3	1-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	2-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	3-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	4-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	5-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	6-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	7-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	8-V	1475	ALA	N-CA	-9.96	1.34	1.46
3	1-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	2-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	3-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	4-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	5-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	6-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	7-P	1547	LEU	N-CA	-9.96	1.33	1.46
3	8-P	1547	LEU	N-CA	-9.96	1.33	1.46
6	1-Z	467	THR	CA-C	-9.96	1.39	1.52
6	2-Z	467	THR	CA-C	-9.96	1.39	1.52
6	3-Z	467	THR	CA-C	-9.96	1.39	1.52
6	4-Z	467	THR	CA-C	-9.96	1.39	1.52
6	5-Z	467	THR	CA-C	-9.96	1.39	1.52
6	6-Z	467	THR	CA-C	-9.96	1.39	1.52
6	7-Z	467	THR	CA-C	-9.96	1.39	1.52
6	8-Z	467	THR	CA-C	-9.96	1.39	1.52
6	1-H	487	TRP	CA-CB	9.96	1.68	1.53
6	2-H	487	TRP	CA-CB	9.96	1.68	1.53
6	3-H	487	TRP	CA-CB	9.96	1.68	1.53
6	4-H	487	TRP	CA-CB	9.96	1.68	1.53
6	5-H	487	TRP	CA-CB	9.96	1.68	1.53
6	6-H	487	TRP	CA-CB	9.96	1.68	1.53
6	7-H	487	TRP	CA-CB	9.96	1.68	1.53
6	8-H	487	TRP	CA-CB	9.96	1.68	1.53
3	1-V	1518	ASN	N-CA	-9.95	1.34	1.46
3	2-V	1518	ASN	N-CA	-9.95	1.34	1.46
3	3-V	1518	ASN	N-CA	-9.95	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-V	1518	ASN	N-CA	-9.95	1.34	1.46
3	5-V	1518	ASN	N-CA	-9.95	1.34	1.46
3	6-V	1518	ASN	N-CA	-9.95	1.34	1.46
3	7-V	1518	ASN	N-CA	-9.95	1.34	1.46
3	8-V	1518	ASN	N-CA	-9.95	1.34	1.46
6	1-T	487	TRP	CA-CB	9.94	1.68	1.53
6	2-T	487	TRP	CA-CB	9.94	1.68	1.53
6	3-T	487	TRP	CA-CB	9.94	1.68	1.53
6	4-T	487	TRP	CA-CB	9.94	1.68	1.53
6	5-T	487	TRP	CA-CB	9.94	1.68	1.53
6	6-T	487	TRP	CA-CB	9.94	1.68	1.53
6	7-T	487	TRP	CA-CB	9.94	1.68	1.53
6	8-T	487	TRP	CA-CB	9.94	1.68	1.53
3	1-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	2-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	3-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	4-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	5-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	6-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	7-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	8-V	1547	LEU	N-CA	-9.93	1.33	1.46
3	1-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	2-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	3-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	4-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	5-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	6-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	7-D	1518	ASN	N-CA	-9.92	1.34	1.46
3	8-D	1518	ASN	N-CA	-9.92	1.34	1.46
6	1-N	487	TRP	CA-CB	9.91	1.68	1.53
6	2-N	487	TRP	CA-CB	9.91	1.68	1.53
6	3-N	487	TRP	CA-CB	9.91	1.68	1.53
6	4-N	487	TRP	CA-CB	9.91	1.68	1.53
6	5-N	487	TRP	CA-CB	9.91	1.68	1.53
6	6-N	487	TRP	CA-CB	9.91	1.68	1.53
6	7-N	487	TRP	CA-CB	9.91	1.68	1.53
6	8-N	487	TRP	CA-CB	9.91	1.68	1.53
3	1-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	2-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	3-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	4-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	5-J	1518	ASN	N-CA	-9.90	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	7-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	8-J	1518	ASN	N-CA	-9.90	1.34	1.46
3	1-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	2-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	3-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	4-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	5-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	6-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	7-P	1518	ASN	N-CA	-9.89	1.34	1.46
3	8-P	1518	ASN	N-CA	-9.89	1.34	1.46
6	1-N	371	LYS	N-CA	-9.84	1.34	1.46
6	2-N	371	LYS	N-CA	-9.84	1.34	1.46
6	3-N	371	LYS	N-CA	-9.84	1.34	1.46
6	4-N	371	LYS	N-CA	-9.84	1.34	1.46
6	5-N	371	LYS	N-CA	-9.84	1.34	1.46
6	6-N	371	LYS	N-CA	-9.84	1.34	1.46
6	7-N	371	LYS	N-CA	-9.84	1.34	1.46
6	8-N	371	LYS	N-CA	-9.84	1.34	1.46
4	1-L	454	TYR	C-O	9.84	1.36	1.24
4	2-L	454	TYR	C-O	9.84	1.36	1.24
4	3-L	454	TYR	C-O	9.84	1.36	1.24
4	4-L	454	TYR	C-O	9.84	1.36	1.24
4	5-L	454	TYR	C-O	9.84	1.36	1.24
4	6-L	454	TYR	C-O	9.84	1.36	1.24
4	7-L	454	TYR	C-O	9.84	1.36	1.24
4	8-L	454	TYR	C-O	9.84	1.36	1.24
4	1-F	454	TYR	C-O	9.82	1.36	1.24
4	2-F	454	TYR	C-O	9.82	1.36	1.24
4	3-F	454	TYR	C-O	9.82	1.36	1.24
4	4-F	454	TYR	C-O	9.82	1.36	1.24
4	5-F	454	TYR	C-O	9.82	1.36	1.24
4	6-F	454	TYR	C-O	9.82	1.36	1.24
4	7-F	454	TYR	C-O	9.82	1.36	1.24
4	8-F	454	TYR	C-O	9.82	1.36	1.24
4	1-R	454	TYR	C-O	9.82	1.36	1.24
4	2-R	454	TYR	C-O	9.82	1.36	1.24
4	3-R	454	TYR	C-O	9.82	1.36	1.24
4	4-R	454	TYR	C-O	9.82	1.36	1.24
4	5-R	454	TYR	C-O	9.82	1.36	1.24
4	6-R	454	TYR	C-O	9.82	1.36	1.24
4	7-R	454	TYR	C-O	9.82	1.36	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	454	TYR	C-O	9.82	1.36	1.24
6	1-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	2-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	3-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	4-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	5-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	6-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	7-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	8-Z	371	LYS	N-CA	-9.81	1.34	1.46
6	1-T	371	LYS	N-CA	-9.80	1.34	1.46
6	2-T	371	LYS	N-CA	-9.80	1.34	1.46
6	3-T	371	LYS	N-CA	-9.80	1.34	1.46
6	4-T	371	LYS	N-CA	-9.80	1.34	1.46
6	5-T	371	LYS	N-CA	-9.80	1.34	1.46
6	6-T	371	LYS	N-CA	-9.80	1.34	1.46
6	7-T	371	LYS	N-CA	-9.80	1.34	1.46
6	8-T	371	LYS	N-CA	-9.80	1.34	1.46
4	1-X	454	TYR	C-O	9.79	1.36	1.24
4	2-X	454	TYR	C-O	9.79	1.36	1.24
4	3-X	454	TYR	C-O	9.79	1.36	1.24
4	4-X	454	TYR	C-O	9.79	1.36	1.24
4	5-X	454	TYR	C-O	9.79	1.36	1.24
4	6-X	454	TYR	C-O	9.79	1.36	1.24
4	7-X	454	TYR	C-O	9.79	1.36	1.24
4	8-X	454	TYR	C-O	9.79	1.36	1.24
6	1-H	371	LYS	N-CA	-9.79	1.34	1.46
4	1-L	482	LYS	N-CA	-9.79	1.34	1.46
6	2-H	371	LYS	N-CA	-9.79	1.34	1.46
4	2-L	482	LYS	N-CA	-9.79	1.34	1.46
6	3-H	371	LYS	N-CA	-9.79	1.34	1.46
4	3-L	482	LYS	N-CA	-9.79	1.34	1.46
6	4-H	371	LYS	N-CA	-9.79	1.34	1.46
4	4-L	482	LYS	N-CA	-9.79	1.34	1.46
6	5-H	371	LYS	N-CA	-9.79	1.34	1.46
4	5-L	482	LYS	N-CA	-9.79	1.34	1.46
6	6-H	371	LYS	N-CA	-9.79	1.34	1.46
4	6-L	482	LYS	N-CA	-9.79	1.34	1.46
6	7-H	371	LYS	N-CA	-9.79	1.34	1.46
4	7-L	482	LYS	N-CA	-9.79	1.34	1.46
6	8-H	371	LYS	N-CA	-9.79	1.34	1.46
4	8-L	482	LYS	N-CA	-9.79	1.34	1.46
3	1-D	1493	ARG	CA-C	-9.78	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	3-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	4-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	5-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	6-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	7-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	8-D	1493	ARG	CA-C	-9.78	1.39	1.52
3	1-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	2-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	3-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	4-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	5-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	6-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	7-V	1493	ARG	CA-C	-9.77	1.39	1.52
3	8-V	1493	ARG	CA-C	-9.77	1.39	1.52
4	1-X	449	SER	N-CA	9.77	1.58	1.46
4	2-X	449	SER	N-CA	9.77	1.58	1.46
4	3-X	449	SER	N-CA	9.77	1.58	1.46
4	4-X	449	SER	N-CA	9.77	1.58	1.46
4	5-X	449	SER	N-CA	9.77	1.58	1.46
4	6-X	449	SER	N-CA	9.77	1.58	1.46
4	7-X	449	SER	N-CA	9.77	1.58	1.46
4	8-X	449	SER	N-CA	9.77	1.58	1.46
4	1-R	482	LYS	N-CA	-9.77	1.34	1.46
4	2-R	482	LYS	N-CA	-9.77	1.34	1.46
4	3-R	482	LYS	N-CA	-9.77	1.34	1.46
4	4-R	482	LYS	N-CA	-9.77	1.34	1.46
4	5-R	482	LYS	N-CA	-9.77	1.34	1.46
4	6-R	482	LYS	N-CA	-9.77	1.34	1.46
4	7-R	482	LYS	N-CA	-9.77	1.34	1.46
4	8-R	482	LYS	N-CA	-9.77	1.34	1.46
4	1-F	483	ASP	N-CA	-9.75	1.33	1.46
4	2-F	483	ASP	N-CA	-9.75	1.33	1.46
4	3-F	483	ASP	N-CA	-9.75	1.33	1.46
4	4-F	483	ASP	N-CA	-9.75	1.33	1.46
4	5-F	483	ASP	N-CA	-9.75	1.33	1.46
4	6-F	483	ASP	N-CA	-9.75	1.33	1.46
4	7-F	483	ASP	N-CA	-9.75	1.33	1.46
4	8-F	483	ASP	N-CA	-9.75	1.33	1.46
5	1-M	332	PRO	CA-CB	9.74	1.67	1.54
5	1-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	2-M	332	PRO	CA-CB	9.74	1.67	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	3-M	332	PRO	CA-CB	9.74	1.67	1.54
5	3-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	4-M	332	PRO	CA-CB	9.74	1.67	1.54
5	4-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	5-M	332	PRO	CA-CB	9.74	1.67	1.54
5	5-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	6-M	332	PRO	CA-CB	9.74	1.67	1.54
5	6-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	7-M	332	PRO	CA-CB	9.74	1.67	1.54
5	7-Y	332	PRO	CA-CB	9.74	1.67	1.54
5	8-M	332	PRO	CA-CB	9.74	1.67	1.54
5	8-Y	332	PRO	CA-CB	9.74	1.67	1.54
4	1-F	482	LYS	N-CA	-9.74	1.34	1.46
4	1-X	482	LYS	N-CA	-9.74	1.34	1.46
4	2-F	482	LYS	N-CA	-9.74	1.34	1.46
4	2-X	482	LYS	N-CA	-9.74	1.34	1.46
4	3-F	482	LYS	N-CA	-9.74	1.34	1.46
4	3-X	482	LYS	N-CA	-9.74	1.34	1.46
4	4-F	482	LYS	N-CA	-9.74	1.34	1.46
4	4-X	482	LYS	N-CA	-9.74	1.34	1.46
4	5-F	482	LYS	N-CA	-9.74	1.34	1.46
4	5-X	482	LYS	N-CA	-9.74	1.34	1.46
4	6-F	482	LYS	N-CA	-9.74	1.34	1.46
4	6-X	482	LYS	N-CA	-9.74	1.34	1.46
4	7-F	482	LYS	N-CA	-9.74	1.34	1.46
4	7-X	482	LYS	N-CA	-9.74	1.34	1.46
4	8-F	482	LYS	N-CA	-9.74	1.34	1.46
4	8-X	482	LYS	N-CA	-9.74	1.34	1.46
4	1-R	449	SER	N-CA	9.74	1.58	1.46
4	2-R	449	SER	N-CA	9.74	1.58	1.46
4	3-R	449	SER	N-CA	9.74	1.58	1.46
4	4-R	449	SER	N-CA	9.74	1.58	1.46
4	5-R	449	SER	N-CA	9.74	1.58	1.46
4	6-R	449	SER	N-CA	9.74	1.58	1.46
4	7-R	449	SER	N-CA	9.74	1.58	1.46
4	8-R	449	SER	N-CA	9.74	1.58	1.46
5	1-G	312	LYS	CA-C	-9.74	1.40	1.52
5	2-G	312	LYS	CA-C	-9.74	1.40	1.52
5	3-G	312	LYS	CA-C	-9.74	1.40	1.52
5	4-G	312	LYS	CA-C	-9.74	1.40	1.52
5	5-G	312	LYS	CA-C	-9.74	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-G	312	LYS	CA-C	-9.74	1.40	1.52
5	7-G	312	LYS	CA-C	-9.74	1.40	1.52
5	8-G	312	LYS	CA-C	-9.74	1.40	1.52
3	1-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	1-S	312	LYS	CA-C	-9.72	1.40	1.52
3	2-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	2-S	312	LYS	CA-C	-9.72	1.40	1.52
3	3-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	3-S	312	LYS	CA-C	-9.72	1.40	1.52
3	4-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	4-S	312	LYS	CA-C	-9.72	1.40	1.52
3	5-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	5-S	312	LYS	CA-C	-9.72	1.40	1.52
3	6-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	6-S	312	LYS	CA-C	-9.72	1.40	1.52
3	7-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	7-S	312	LYS	CA-C	-9.72	1.40	1.52
3	8-J	1493	ARG	CA-C	-9.72	1.39	1.52
5	8-S	312	LYS	CA-C	-9.72	1.40	1.52
4	1-L	449	SER	N-CA	9.71	1.58	1.46
4	1-L	483	ASP	N-CA	-9.71	1.33	1.46
4	2-L	449	SER	N-CA	9.71	1.58	1.46
4	2-L	483	ASP	N-CA	-9.71	1.33	1.46
4	3-L	449	SER	N-CA	9.71	1.58	1.46
4	3-L	483	ASP	N-CA	-9.71	1.33	1.46
4	4-L	449	SER	N-CA	9.71	1.58	1.46
4	4-L	483	ASP	N-CA	-9.71	1.33	1.46
4	5-L	449	SER	N-CA	9.71	1.58	1.46
4	5-L	483	ASP	N-CA	-9.71	1.33	1.46
4	6-L	449	SER	N-CA	9.71	1.58	1.46
4	6-L	483	ASP	N-CA	-9.71	1.33	1.46
4	7-L	449	SER	N-CA	9.71	1.58	1.46
4	7-L	483	ASP	N-CA	-9.71	1.33	1.46
4	8-L	449	SER	N-CA	9.71	1.58	1.46
4	8-L	483	ASP	N-CA	-9.71	1.33	1.46
5	1-G	332	PRO	CA-CB	9.71	1.67	1.54
4	1-X	483	ASP	N-CA	-9.71	1.33	1.46
5	2-G	332	PRO	CA-CB	9.71	1.67	1.54
4	2-X	483	ASP	N-CA	-9.71	1.33	1.46
5	3-G	332	PRO	CA-CB	9.71	1.67	1.54
4	3-X	483	ASP	N-CA	-9.71	1.33	1.46
5	4-G	332	PRO	CA-CB	9.71	1.67	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	483	ASP	N-CA	-9.71	1.33	1.46
5	5-G	332	PRO	CA-CB	9.71	1.67	1.54
4	5-X	483	ASP	N-CA	-9.71	1.33	1.46
5	6-G	332	PRO	CA-CB	9.71	1.67	1.54
4	6-X	483	ASP	N-CA	-9.71	1.33	1.46
5	7-G	332	PRO	CA-CB	9.71	1.67	1.54
4	7-X	483	ASP	N-CA	-9.71	1.33	1.46
5	8-G	332	PRO	CA-CB	9.71	1.67	1.54
4	8-X	483	ASP	N-CA	-9.71	1.33	1.46
4	1-F	449	SER	N-CA	9.71	1.58	1.46
4	2-F	449	SER	N-CA	9.71	1.58	1.46
4	3-F	449	SER	N-CA	9.71	1.58	1.46
4	4-F	449	SER	N-CA	9.71	1.58	1.46
4	5-F	449	SER	N-CA	9.71	1.58	1.46
4	6-F	449	SER	N-CA	9.71	1.58	1.46
4	7-F	449	SER	N-CA	9.71	1.58	1.46
4	8-F	449	SER	N-CA	9.71	1.58	1.46
4	1-R	483	ASP	N-CA	-9.70	1.33	1.46
5	1-S	332	PRO	CA-CB	9.70	1.67	1.54
4	2-R	483	ASP	N-CA	-9.70	1.33	1.46
5	2-S	332	PRO	CA-CB	9.70	1.67	1.54
4	3-R	483	ASP	N-CA	-9.70	1.33	1.46
5	3-S	332	PRO	CA-CB	9.70	1.67	1.54
4	4-R	483	ASP	N-CA	-9.70	1.33	1.46
5	4-S	332	PRO	CA-CB	9.70	1.67	1.54
4	5-R	483	ASP	N-CA	-9.70	1.33	1.46
5	5-S	332	PRO	CA-CB	9.70	1.67	1.54
4	6-R	483	ASP	N-CA	-9.70	1.33	1.46
5	6-S	332	PRO	CA-CB	9.70	1.67	1.54
4	7-R	483	ASP	N-CA	-9.70	1.33	1.46
5	7-S	332	PRO	CA-CB	9.70	1.67	1.54
4	8-R	483	ASP	N-CA	-9.70	1.33	1.46
5	8-S	332	PRO	CA-CB	9.70	1.67	1.54
5	1-G	276	SER	C-N	9.69	1.46	1.33
4	1-R	132	ASP	CA-C	-9.69	1.39	1.52
5	2-G	276	SER	C-N	9.69	1.46	1.33
4	2-R	132	ASP	CA-C	-9.69	1.39	1.52
5	3-G	276	SER	C-N	9.69	1.46	1.33
4	3-R	132	ASP	CA-C	-9.69	1.39	1.52
5	4-G	276	SER	C-N	9.69	1.46	1.33
4	4-R	132	ASP	CA-C	-9.69	1.39	1.52
5	5-G	276	SER	C-N	9.69	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-R	132	ASP	CA-C	-9.69	1.39	1.52
5	6-G	276	SER	C-N	9.69	1.46	1.33
4	6-R	132	ASP	CA-C	-9.69	1.39	1.52
5	7-G	276	SER	C-N	9.69	1.46	1.33
4	7-R	132	ASP	CA-C	-9.69	1.39	1.52
5	8-G	276	SER	C-N	9.69	1.46	1.33
4	8-R	132	ASP	CA-C	-9.69	1.39	1.52
4	1-L	335	ARG	CA-CB	9.68	1.68	1.53
5	1-Y	276	SER	C-N	9.68	1.46	1.33
4	2-L	335	ARG	CA-CB	9.68	1.68	1.53
5	2-Y	276	SER	C-N	9.68	1.46	1.33
4	3-L	335	ARG	CA-CB	9.68	1.68	1.53
5	3-Y	276	SER	C-N	9.68	1.46	1.33
4	4-L	335	ARG	CA-CB	9.68	1.68	1.53
5	4-Y	276	SER	C-N	9.68	1.46	1.33
4	5-L	335	ARG	CA-CB	9.68	1.68	1.53
5	5-Y	276	SER	C-N	9.68	1.46	1.33
4	6-L	335	ARG	CA-CB	9.68	1.68	1.53
5	6-Y	276	SER	C-N	9.68	1.46	1.33
4	7-L	335	ARG	CA-CB	9.68	1.68	1.53
5	7-Y	276	SER	C-N	9.68	1.46	1.33
4	8-L	335	ARG	CA-CB	9.68	1.68	1.53
5	8-Y	276	SER	C-N	9.68	1.46	1.33
4	1-L	428	LYS	N-CA	-9.68	1.34	1.46
4	1-R	428	LYS	N-CA	-9.68	1.34	1.46
4	2-L	428	LYS	N-CA	-9.68	1.34	1.46
4	2-R	428	LYS	N-CA	-9.68	1.34	1.46
4	3-L	428	LYS	N-CA	-9.68	1.34	1.46
4	3-R	428	LYS	N-CA	-9.68	1.34	1.46
4	4-L	428	LYS	N-CA	-9.68	1.34	1.46
4	4-R	428	LYS	N-CA	-9.68	1.34	1.46
4	5-L	428	LYS	N-CA	-9.68	1.34	1.46
4	5-R	428	LYS	N-CA	-9.68	1.34	1.46
4	6-L	428	LYS	N-CA	-9.68	1.34	1.46
4	6-R	428	LYS	N-CA	-9.68	1.34	1.46
4	7-L	428	LYS	N-CA	-9.68	1.34	1.46
4	7-R	428	LYS	N-CA	-9.68	1.34	1.46
4	8-L	428	LYS	N-CA	-9.68	1.34	1.46
4	8-R	428	LYS	N-CA	-9.68	1.34	1.46
3	1-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	1-S	276	SER	C-N	9.67	1.46	1.33
3	2-P	1493	ARG	CA-C	-9.67	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-S	276	SER	C-N	9.67	1.46	1.33
3	3-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	3-S	276	SER	C-N	9.67	1.46	1.33
3	4-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	4-S	276	SER	C-N	9.67	1.46	1.33
3	5-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	5-S	276	SER	C-N	9.67	1.46	1.33
3	6-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	6-S	276	SER	C-N	9.67	1.46	1.33
3	7-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	7-S	276	SER	C-N	9.67	1.46	1.33
3	8-P	1493	ARG	CA-C	-9.67	1.39	1.52
5	8-S	276	SER	C-N	9.67	1.46	1.33
4	1-F	335	ARG	CA-CB	9.66	1.68	1.53
4	2-F	335	ARG	CA-CB	9.66	1.68	1.53
4	3-F	335	ARG	CA-CB	9.66	1.68	1.53
4	4-F	335	ARG	CA-CB	9.66	1.68	1.53
4	5-F	335	ARG	CA-CB	9.66	1.68	1.53
4	6-F	335	ARG	CA-CB	9.66	1.68	1.53
4	7-F	335	ARG	CA-CB	9.66	1.68	1.53
4	8-F	335	ARG	CA-CB	9.66	1.68	1.53
5	1-M	312	LYS	CA-C	-9.66	1.40	1.52
4	1-X	335	ARG	CA-CB	9.66	1.68	1.53
5	2-M	312	LYS	CA-C	-9.66	1.40	1.52
4	2-X	335	ARG	CA-CB	9.66	1.68	1.53
5	3-M	312	LYS	CA-C	-9.66	1.40	1.52
4	3-X	335	ARG	CA-CB	9.66	1.68	1.53
5	4-M	312	LYS	CA-C	-9.66	1.40	1.52
4	4-X	335	ARG	CA-CB	9.66	1.68	1.53
5	5-M	312	LYS	CA-C	-9.66	1.40	1.52
4	5-X	335	ARG	CA-CB	9.66	1.68	1.53
5	6-M	312	LYS	CA-C	-9.66	1.40	1.52
4	6-X	335	ARG	CA-CB	9.66	1.68	1.53
5	7-M	312	LYS	CA-C	-9.66	1.40	1.52
4	7-X	335	ARG	CA-CB	9.66	1.68	1.53
5	8-M	312	LYS	CA-C	-9.66	1.40	1.52
4	8-X	335	ARG	CA-CB	9.66	1.68	1.53
4	1-R	335	ARG	CA-CB	9.65	1.68	1.53
4	2-R	335	ARG	CA-CB	9.65	1.68	1.53
4	3-R	335	ARG	CA-CB	9.65	1.68	1.53
4	4-R	335	ARG	CA-CB	9.65	1.68	1.53
4	5-R	335	ARG	CA-CB	9.65	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	335	ARG	CA-CB	9.65	1.68	1.53
4	7-R	335	ARG	CA-CB	9.65	1.68	1.53
4	8-R	335	ARG	CA-CB	9.65	1.68	1.53
5	1-M	276	SER	C-N	9.65	1.46	1.33
5	2-M	276	SER	C-N	9.65	1.46	1.33
5	3-M	276	SER	C-N	9.65	1.46	1.33
5	4-M	276	SER	C-N	9.65	1.46	1.33
5	5-M	276	SER	C-N	9.65	1.46	1.33
5	6-M	276	SER	C-N	9.65	1.46	1.33
5	7-M	276	SER	C-N	9.65	1.46	1.33
5	8-M	276	SER	C-N	9.65	1.46	1.33
4	1-F	428	LYS	N-CA	-9.64	1.34	1.46
4	1-L	132	ASP	CA-C	-9.64	1.39	1.52
4	2-F	428	LYS	N-CA	-9.64	1.34	1.46
4	2-L	132	ASP	CA-C	-9.64	1.39	1.52
4	3-F	428	LYS	N-CA	-9.64	1.34	1.46
4	3-L	132	ASP	CA-C	-9.64	1.39	1.52
4	4-F	428	LYS	N-CA	-9.64	1.34	1.46
4	4-L	132	ASP	CA-C	-9.64	1.39	1.52
4	5-F	428	LYS	N-CA	-9.64	1.34	1.46
4	5-L	132	ASP	CA-C	-9.64	1.39	1.52
4	6-F	428	LYS	N-CA	-9.64	1.34	1.46
4	6-L	132	ASP	CA-C	-9.64	1.39	1.52
4	7-F	428	LYS	N-CA	-9.64	1.34	1.46
4	7-L	132	ASP	CA-C	-9.64	1.39	1.52
4	8-F	428	LYS	N-CA	-9.64	1.34	1.46
4	8-L	132	ASP	CA-C	-9.64	1.39	1.52
4	1-F	132	ASP	CA-C	-9.64	1.39	1.52
4	1-X	132	ASP	CA-C	-9.63	1.39	1.52
4	2-F	132	ASP	CA-C	-9.64	1.39	1.52
4	2-X	132	ASP	CA-C	-9.63	1.39	1.52
4	3-F	132	ASP	CA-C	-9.64	1.39	1.52
4	3-X	132	ASP	CA-C	-9.63	1.39	1.52
4	4-F	132	ASP	CA-C	-9.64	1.39	1.52
4	4-X	132	ASP	CA-C	-9.63	1.39	1.52
4	5-F	132	ASP	CA-C	-9.64	1.39	1.52
4	5-X	132	ASP	CA-C	-9.63	1.39	1.52
4	6-F	132	ASP	CA-C	-9.64	1.39	1.52
4	6-X	132	ASP	CA-C	-9.63	1.39	1.52
4	7-F	132	ASP	CA-C	-9.64	1.39	1.52
4	7-X	132	ASP	CA-C	-9.63	1.39	1.52
4	8-F	132	ASP	CA-C	-9.64	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	132	ASP	CA-C	-9.63	1.39	1.52
6	1-H	353	GLN	CA-C	-9.62	1.40	1.52
6	2-H	353	GLN	CA-C	-9.62	1.40	1.52
6	3-H	353	GLN	CA-C	-9.62	1.40	1.52
6	4-H	353	GLN	CA-C	-9.62	1.40	1.52
6	5-H	353	GLN	CA-C	-9.62	1.40	1.52
6	6-H	353	GLN	CA-C	-9.62	1.40	1.52
6	7-H	353	GLN	CA-C	-9.62	1.40	1.52
6	8-H	353	GLN	CA-C	-9.62	1.40	1.52
4	1-X	428	LYS	N-CA	-9.62	1.34	1.46
4	2-X	428	LYS	N-CA	-9.62	1.34	1.46
4	3-X	428	LYS	N-CA	-9.62	1.34	1.46
4	4-X	428	LYS	N-CA	-9.62	1.34	1.46
4	5-X	428	LYS	N-CA	-9.62	1.34	1.46
4	6-X	428	LYS	N-CA	-9.62	1.34	1.46
4	7-X	428	LYS	N-CA	-9.62	1.34	1.46
4	8-X	428	LYS	N-CA	-9.62	1.34	1.46
6	1-T	353	GLN	CA-C	-9.61	1.40	1.52
6	2-T	353	GLN	CA-C	-9.61	1.40	1.52
6	3-T	353	GLN	CA-C	-9.61	1.40	1.52
6	4-T	353	GLN	CA-C	-9.61	1.40	1.52
6	5-T	353	GLN	CA-C	-9.61	1.40	1.52
6	6-T	353	GLN	CA-C	-9.61	1.40	1.52
6	7-T	353	GLN	CA-C	-9.61	1.40	1.52
6	8-T	353	GLN	CA-C	-9.61	1.40	1.52
5	1-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	2-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	3-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	4-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	5-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	6-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	7-Y	312	LYS	CA-C	-9.61	1.40	1.52
5	8-Y	312	LYS	CA-C	-9.61	1.40	1.52
6	1-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	2-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	3-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	4-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	5-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	6-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	7-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	8-Z	353	GLN	CA-C	-9.58	1.40	1.52
6	1-N	353	GLN	CA-C	-9.57	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-N	353	GLN	CA-C	-9.57	1.40	1.52
6	3-N	353	GLN	CA-C	-9.57	1.40	1.52
6	4-N	353	GLN	CA-C	-9.57	1.40	1.52
6	5-N	353	GLN	CA-C	-9.57	1.40	1.52
6	6-N	353	GLN	CA-C	-9.57	1.40	1.52
6	7-N	353	GLN	CA-C	-9.57	1.40	1.52
6	8-N	353	GLN	CA-C	-9.57	1.40	1.52
2	1-O	233	VAL	CA-C	-9.56	1.40	1.52
2	2-O	233	VAL	CA-C	-9.56	1.40	1.52
2	3-O	233	VAL	CA-C	-9.56	1.40	1.52
2	4-O	233	VAL	CA-C	-9.56	1.40	1.52
2	5-O	233	VAL	CA-C	-9.56	1.40	1.52
2	6-O	233	VAL	CA-C	-9.56	1.40	1.52
2	7-O	233	VAL	CA-C	-9.56	1.40	1.52
2	8-O	233	VAL	CA-C	-9.56	1.40	1.52
2	1-C	233	VAL	CA-C	-9.56	1.40	1.52
2	2-C	233	VAL	CA-C	-9.56	1.40	1.52
2	3-C	233	VAL	CA-C	-9.56	1.40	1.52
2	4-C	233	VAL	CA-C	-9.56	1.40	1.52
2	5-C	233	VAL	CA-C	-9.56	1.40	1.52
2	6-C	233	VAL	CA-C	-9.56	1.40	1.52
2	7-C	233	VAL	CA-C	-9.56	1.40	1.52
2	8-C	233	VAL	CA-C	-9.56	1.40	1.52
2	1-U	233	VAL	CA-C	-9.55	1.40	1.52
2	2-U	233	VAL	CA-C	-9.55	1.40	1.52
2	3-U	233	VAL	CA-C	-9.55	1.40	1.52
2	4-U	233	VAL	CA-C	-9.55	1.40	1.52
2	5-U	233	VAL	CA-C	-9.55	1.40	1.52
2	6-U	233	VAL	CA-C	-9.55	1.40	1.52
2	7-U	233	VAL	CA-C	-9.55	1.40	1.52
2	8-U	233	VAL	CA-C	-9.55	1.40	1.52
6	1-H	453	ASP	CA-CB	9.55	1.68	1.53
6	2-H	453	ASP	CA-CB	9.55	1.68	1.53
6	3-H	453	ASP	CA-CB	9.55	1.68	1.53
6	4-H	453	ASP	CA-CB	9.55	1.68	1.53
6	5-H	453	ASP	CA-CB	9.55	1.68	1.53
6	6-H	453	ASP	CA-CB	9.55	1.68	1.53
6	7-H	453	ASP	CA-CB	9.55	1.68	1.53
6	8-H	453	ASP	CA-CB	9.55	1.68	1.53
3	1-D	1484	ASP	N-CA	-9.54	1.34	1.46
3	2-D	1484	ASP	N-CA	-9.54	1.34	1.46
3	3-D	1484	ASP	N-CA	-9.54	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	1484	ASP	N-CA	-9.54	1.34	1.46
3	5-D	1484	ASP	N-CA	-9.54	1.34	1.46
3	6-D	1484	ASP	N-CA	-9.54	1.34	1.46
3	7-D	1484	ASP	N-CA	-9.54	1.34	1.46
3	8-D	1484	ASP	N-CA	-9.54	1.34	1.46
2	1-I	233	VAL	CA-C	-9.54	1.40	1.52
6	1-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	2-I	233	VAL	CA-C	-9.54	1.40	1.52
6	2-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	3-I	233	VAL	CA-C	-9.54	1.40	1.52
6	3-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	4-I	233	VAL	CA-C	-9.54	1.40	1.52
6	4-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	5-I	233	VAL	CA-C	-9.54	1.40	1.52
6	5-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	6-I	233	VAL	CA-C	-9.54	1.40	1.52
6	6-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	7-I	233	VAL	CA-C	-9.54	1.40	1.52
6	7-Z	453	ASP	CA-CB	9.54	1.68	1.53
2	8-I	233	VAL	CA-C	-9.54	1.40	1.52
6	8-Z	453	ASP	CA-CB	9.54	1.68	1.53
5	1-M	252	CYS	CA-C	-9.54	1.38	1.52
3	1-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	2-M	252	CYS	CA-C	-9.54	1.38	1.52
3	2-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	3-M	252	CYS	CA-C	-9.54	1.38	1.52
3	3-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	4-M	252	CYS	CA-C	-9.54	1.38	1.52
3	4-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	5-M	252	CYS	CA-C	-9.54	1.38	1.52
3	5-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	6-M	252	CYS	CA-C	-9.54	1.38	1.52
3	6-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	7-M	252	CYS	CA-C	-9.54	1.38	1.52
3	7-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	8-M	252	CYS	CA-C	-9.54	1.38	1.52
3	8-V	1484	ASP	N-CA	-9.54	1.34	1.46
5	1-G	252	CYS	CA-C	-9.53	1.38	1.52
5	2-G	252	CYS	CA-C	-9.53	1.38	1.52
5	3-G	252	CYS	CA-C	-9.53	1.38	1.52
5	4-G	252	CYS	CA-C	-9.53	1.38	1.52
5	5-G	252	CYS	CA-C	-9.53	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-G	252	CYS	CA-C	-9.53	1.38	1.52
5	7-G	252	CYS	CA-C	-9.53	1.38	1.52
5	8-G	252	CYS	CA-C	-9.53	1.38	1.52
6	1-N	453	ASP	CA-CB	9.53	1.68	1.53
6	2-N	453	ASP	CA-CB	9.53	1.68	1.53
6	3-N	453	ASP	CA-CB	9.53	1.68	1.53
6	4-N	453	ASP	CA-CB	9.53	1.68	1.53
6	5-N	453	ASP	CA-CB	9.53	1.68	1.53
6	6-N	453	ASP	CA-CB	9.53	1.68	1.53
6	7-N	453	ASP	CA-CB	9.53	1.68	1.53
6	8-N	453	ASP	CA-CB	9.53	1.68	1.53
3	1-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	2-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	3-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	4-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	5-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	6-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	7-P	1484	ASP	N-CA	-9.53	1.34	1.46
3	8-P	1484	ASP	N-CA	-9.53	1.34	1.46
5	1-Y	321	ASN	C-N	9.52	1.46	1.33
3	1-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	1-X	425	THR	N-CA	-9.52	1.33	1.46
3	2-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	2-X	425	THR	N-CA	-9.52	1.33	1.46
5	2-Y	321	ASN	C-N	9.52	1.46	1.33
5	3-Y	321	ASN	C-N	9.52	1.46	1.33
3	3-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	3-X	425	THR	N-CA	-9.52	1.33	1.46
3	4-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	4-X	425	THR	N-CA	-9.52	1.33	1.46
5	4-Y	321	ASN	C-N	9.52	1.46	1.33
5	5-Y	321	ASN	C-N	9.52	1.46	1.33
3	5-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	5-X	425	THR	N-CA	-9.52	1.33	1.46
3	6-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	6-X	425	THR	N-CA	-9.52	1.33	1.46
5	6-Y	321	ASN	C-N	9.52	1.46	1.33
5	7-Y	321	ASN	C-N	9.52	1.46	1.33
3	7-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	7-X	425	THR	N-CA	-9.52	1.33	1.46
3	8-J	1484	ASP	N-CA	-9.52	1.34	1.46
4	8-X	425	THR	N-CA	-9.52	1.33	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-Y	321	ASN	C-N	9.52	1.46	1.33
5	1-G	321	ASN	C-N	9.51	1.46	1.33
5	1-M	321	ASN	C-N	9.51	1.46	1.33
5	1-S	252	CYS	CA-C	-9.51	1.38	1.52
5	2-G	321	ASN	C-N	9.51	1.46	1.33
5	2-M	321	ASN	C-N	9.51	1.46	1.33
5	2-S	252	CYS	CA-C	-9.51	1.38	1.52
5	3-G	321	ASN	C-N	9.51	1.46	1.33
5	3-M	321	ASN	C-N	9.51	1.46	1.33
5	3-S	252	CYS	CA-C	-9.51	1.38	1.52
5	4-G	321	ASN	C-N	9.51	1.46	1.33
5	4-M	321	ASN	C-N	9.51	1.46	1.33
5	4-S	252	CYS	CA-C	-9.51	1.38	1.52
5	5-G	321	ASN	C-N	9.51	1.46	1.33
5	5-M	321	ASN	C-N	9.51	1.46	1.33
5	5-S	252	CYS	CA-C	-9.51	1.38	1.52
5	6-G	321	ASN	C-N	9.51	1.46	1.33
5	6-M	321	ASN	C-N	9.51	1.46	1.33
5	6-S	252	CYS	CA-C	-9.51	1.38	1.52
5	7-G	321	ASN	C-N	9.51	1.46	1.33
5	7-M	321	ASN	C-N	9.51	1.46	1.33
5	7-S	252	CYS	CA-C	-9.51	1.38	1.52
5	8-G	321	ASN	C-N	9.51	1.46	1.33
5	8-M	321	ASN	C-N	9.51	1.46	1.33
5	8-S	252	CYS	CA-C	-9.51	1.38	1.52
4	1-R	420	GLU	N-CA	9.51	1.57	1.46
5	1-S	321	ASN	C-N	9.51	1.46	1.33
4	2-R	420	GLU	N-CA	9.51	1.57	1.46
5	2-S	321	ASN	C-N	9.51	1.46	1.33
4	3-R	420	GLU	N-CA	9.51	1.57	1.46
5	3-S	321	ASN	C-N	9.51	1.46	1.33
4	4-R	420	GLU	N-CA	9.51	1.57	1.46
5	4-S	321	ASN	C-N	9.51	1.46	1.33
4	5-R	420	GLU	N-CA	9.51	1.57	1.46
5	5-S	321	ASN	C-N	9.51	1.46	1.33
4	6-R	420	GLU	N-CA	9.51	1.57	1.46
5	6-S	321	ASN	C-N	9.51	1.46	1.33
4	7-R	420	GLU	N-CA	9.51	1.57	1.46
5	7-S	321	ASN	C-N	9.51	1.46	1.33
4	8-R	420	GLU	N-CA	9.51	1.57	1.46
5	8-S	321	ASN	C-N	9.51	1.46	1.33
4	1-X	420	GLU	N-CA	9.50	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	2-X	420	GLU	N-CA	9.50	1.57	1.46
5	2-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	3-X	420	GLU	N-CA	9.50	1.57	1.46
5	3-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	4-X	420	GLU	N-CA	9.50	1.57	1.46
5	4-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	5-X	420	GLU	N-CA	9.50	1.57	1.46
5	5-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	6-X	420	GLU	N-CA	9.50	1.57	1.46
5	6-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	7-X	420	GLU	N-CA	9.50	1.57	1.46
5	7-Y	252	CYS	CA-C	-9.50	1.38	1.52
4	8-X	420	GLU	N-CA	9.50	1.57	1.46
5	8-Y	252	CYS	CA-C	-9.50	1.38	1.52
6	1-T	453	ASP	CA-CB	9.50	1.68	1.53
6	2-T	453	ASP	CA-CB	9.50	1.68	1.53
6	3-T	453	ASP	CA-CB	9.50	1.68	1.53
6	4-T	453	ASP	CA-CB	9.50	1.68	1.53
6	5-T	453	ASP	CA-CB	9.50	1.68	1.53
6	6-T	453	ASP	CA-CB	9.50	1.68	1.53
6	7-T	453	ASP	CA-CB	9.50	1.68	1.53
6	8-T	453	ASP	CA-CB	9.50	1.68	1.53
4	1-F	425	THR	N-CA	-9.48	1.33	1.46
4	2-F	425	THR	N-CA	-9.48	1.33	1.46
4	3-F	425	THR	N-CA	-9.48	1.33	1.46
4	4-F	425	THR	N-CA	-9.48	1.33	1.46
4	5-F	425	THR	N-CA	-9.48	1.33	1.46
4	6-F	425	THR	N-CA	-9.48	1.33	1.46
4	7-F	425	THR	N-CA	-9.48	1.33	1.46
4	8-F	425	THR	N-CA	-9.48	1.33	1.46
6	1-H	415	LYS	N-CA	9.48	1.59	1.46
6	2-H	415	LYS	N-CA	9.48	1.59	1.46
6	3-H	415	LYS	N-CA	9.48	1.59	1.46
6	4-H	415	LYS	N-CA	9.48	1.59	1.46
6	5-H	415	LYS	N-CA	9.48	1.59	1.46
6	6-H	415	LYS	N-CA	9.48	1.59	1.46
6	7-H	415	LYS	N-CA	9.48	1.59	1.46
6	8-H	415	LYS	N-CA	9.48	1.59	1.46
4	1-L	420	GLU	N-CA	9.47	1.57	1.46
4	2-L	420	GLU	N-CA	9.47	1.57	1.46
4	3-L	420	GLU	N-CA	9.47	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	420	GLU	N-CA	9.47	1.57	1.46
4	5-L	420	GLU	N-CA	9.47	1.57	1.46
4	6-L	420	GLU	N-CA	9.47	1.57	1.46
4	7-L	420	GLU	N-CA	9.47	1.57	1.46
4	8-L	420	GLU	N-CA	9.47	1.57	1.46
3	1-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	2-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	3-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	4-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	5-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	6-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	7-D	1484	ASP	CA-C	-9.46	1.40	1.52
3	8-D	1484	ASP	CA-C	-9.46	1.40	1.52
4	1-L	425	THR	N-CA	-9.46	1.33	1.46
4	2-L	425	THR	N-CA	-9.46	1.33	1.46
4	3-L	425	THR	N-CA	-9.46	1.33	1.46
4	4-L	425	THR	N-CA	-9.46	1.33	1.46
4	5-L	425	THR	N-CA	-9.46	1.33	1.46
4	6-L	425	THR	N-CA	-9.46	1.33	1.46
4	7-L	425	THR	N-CA	-9.46	1.33	1.46
4	8-L	425	THR	N-CA	-9.46	1.33	1.46
4	1-F	420	GLU	N-CA	9.46	1.57	1.46
4	2-F	420	GLU	N-CA	9.46	1.57	1.46
4	3-F	420	GLU	N-CA	9.46	1.57	1.46
4	4-F	420	GLU	N-CA	9.46	1.57	1.46
4	5-F	420	GLU	N-CA	9.46	1.57	1.46
4	6-F	420	GLU	N-CA	9.46	1.57	1.46
4	7-F	420	GLU	N-CA	9.46	1.57	1.46
4	8-F	420	GLU	N-CA	9.46	1.57	1.46
3	1-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	1-Z	415	LYS	N-CA	9.44	1.59	1.46
3	2-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	2-Z	415	LYS	N-CA	9.44	1.59	1.46
3	3-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	3-Z	415	LYS	N-CA	9.44	1.59	1.46
3	4-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	4-Z	415	LYS	N-CA	9.44	1.59	1.46
3	5-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	5-Z	415	LYS	N-CA	9.44	1.59	1.46
3	6-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	6-Z	415	LYS	N-CA	9.44	1.59	1.46
3	7-J	1484	ASP	CA-C	-9.44	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	7-Z	415	LYS	N-CA	9.44	1.59	1.46
3	8-J	1484	ASP	CA-C	-9.44	1.40	1.52
6	8-Z	415	LYS	N-CA	9.44	1.59	1.46
6	1-N	415	LYS	N-CA	9.43	1.59	1.46
6	2-N	415	LYS	N-CA	9.43	1.59	1.46
6	3-N	415	LYS	N-CA	9.43	1.59	1.46
6	4-N	415	LYS	N-CA	9.43	1.59	1.46
6	5-N	415	LYS	N-CA	9.43	1.59	1.46
6	6-N	415	LYS	N-CA	9.43	1.59	1.46
6	7-N	415	LYS	N-CA	9.43	1.59	1.46
6	8-N	415	LYS	N-CA	9.43	1.59	1.46
4	1-R	425	THR	N-CA	-9.43	1.33	1.46
4	2-R	425	THR	N-CA	-9.43	1.33	1.46
4	3-R	425	THR	N-CA	-9.43	1.33	1.46
4	4-R	425	THR	N-CA	-9.43	1.33	1.46
4	5-R	425	THR	N-CA	-9.43	1.33	1.46
4	6-R	425	THR	N-CA	-9.43	1.33	1.46
4	7-R	425	THR	N-CA	-9.43	1.33	1.46
4	8-R	425	THR	N-CA	-9.43	1.33	1.46
4	1-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	1-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	2-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	2-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	3-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	3-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	4-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	4-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	5-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	5-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	6-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	6-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	7-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	7-L	450	GLU	CA-CB	-9.42	1.37	1.53
4	8-F	450	GLU	CA-CB	-9.42	1.37	1.53
4	8-L	450	GLU	CA-CB	-9.42	1.37	1.53
3	1-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	1-T	415	LYS	N-CA	9.42	1.59	1.46
3	2-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	2-T	415	LYS	N-CA	9.42	1.59	1.46
3	3-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	3-T	415	LYS	N-CA	9.42	1.59	1.46
3	4-P	1484	ASP	CA-C	-9.42	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	415	LYS	N-CA	9.42	1.59	1.46
3	5-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	5-T	415	LYS	N-CA	9.42	1.59	1.46
3	6-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	6-T	415	LYS	N-CA	9.42	1.59	1.46
3	7-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	7-T	415	LYS	N-CA	9.42	1.59	1.46
3	8-P	1484	ASP	CA-C	-9.42	1.40	1.52
6	8-T	415	LYS	N-CA	9.42	1.59	1.46
5	1-G	276	SER	N-CA	9.41	1.58	1.46
3	1-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	1-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	2-G	276	SER	N-CA	9.41	1.58	1.46
3	2-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	2-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	3-G	276	SER	N-CA	9.41	1.58	1.46
3	3-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	3-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	4-G	276	SER	N-CA	9.41	1.58	1.46
3	4-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	4-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	5-G	276	SER	N-CA	9.41	1.58	1.46
3	5-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	5-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	6-G	276	SER	N-CA	9.41	1.58	1.46
3	6-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	6-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	7-G	276	SER	N-CA	9.41	1.58	1.46
3	7-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	7-X	450	GLU	CA-CB	-9.41	1.37	1.53
5	8-G	276	SER	N-CA	9.41	1.58	1.46
3	8-V	1484	ASP	CA-C	-9.41	1.40	1.52
4	8-X	450	GLU	CA-CB	-9.41	1.37	1.53
3	1-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	2-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	3-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	4-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	5-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	6-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	7-J	1488	GLY	N-CA	-9.40	1.33	1.45
3	8-J	1488	GLY	N-CA	-9.40	1.33	1.45
5	1-Y	276	SER	N-CA	9.40	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-Y	276	SER	N-CA	9.40	1.58	1.46
5	3-Y	276	SER	N-CA	9.40	1.58	1.46
5	4-Y	276	SER	N-CA	9.40	1.58	1.46
5	5-Y	276	SER	N-CA	9.40	1.58	1.46
5	6-Y	276	SER	N-CA	9.40	1.58	1.46
5	7-Y	276	SER	N-CA	9.40	1.58	1.46
5	8-Y	276	SER	N-CA	9.40	1.58	1.46
5	1-M	276	SER	N-CA	9.39	1.58	1.46
5	2-M	276	SER	N-CA	9.39	1.58	1.46
5	3-M	276	SER	N-CA	9.39	1.58	1.46
5	4-M	276	SER	N-CA	9.39	1.58	1.46
5	5-M	276	SER	N-CA	9.39	1.58	1.46
5	6-M	276	SER	N-CA	9.39	1.58	1.46
5	7-M	276	SER	N-CA	9.39	1.58	1.46
5	8-M	276	SER	N-CA	9.39	1.58	1.46
6	1-T	402	GLU	N-CA	9.39	1.57	1.46
6	2-T	402	GLU	N-CA	9.39	1.57	1.46
6	3-T	402	GLU	N-CA	9.39	1.57	1.46
6	4-T	402	GLU	N-CA	9.39	1.57	1.46
6	5-T	402	GLU	N-CA	9.39	1.57	1.46
6	6-T	402	GLU	N-CA	9.39	1.57	1.46
6	7-T	402	GLU	N-CA	9.39	1.57	1.46
6	8-T	402	GLU	N-CA	9.39	1.57	1.46
4	1-R	459	LEU	CA-CB	9.38	1.69	1.53
4	2-R	459	LEU	CA-CB	9.38	1.69	1.53
4	3-R	459	LEU	CA-CB	9.38	1.69	1.53
4	4-R	459	LEU	CA-CB	9.38	1.69	1.53
4	5-R	459	LEU	CA-CB	9.38	1.69	1.53
4	6-R	459	LEU	CA-CB	9.38	1.69	1.53
4	7-R	459	LEU	CA-CB	9.38	1.69	1.53
4	8-R	459	LEU	CA-CB	9.38	1.69	1.53
4	1-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	2-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	3-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	4-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	5-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	6-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	7-R	450	GLU	CA-CB	-9.38	1.37	1.53
4	8-R	450	GLU	CA-CB	-9.38	1.37	1.53
6	1-Z	402	GLU	N-CA	9.37	1.57	1.46
6	2-Z	402	GLU	N-CA	9.37	1.57	1.46
6	3-Z	402	GLU	N-CA	9.37	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	402	GLU	N-CA	9.37	1.57	1.46
6	5-Z	402	GLU	N-CA	9.37	1.57	1.46
6	6-Z	402	GLU	N-CA	9.37	1.57	1.46
6	7-Z	402	GLU	N-CA	9.37	1.57	1.46
6	8-Z	402	GLU	N-CA	9.37	1.57	1.46
4	1-F	459	LEU	CA-CB	9.37	1.69	1.53
4	2-F	459	LEU	CA-CB	9.37	1.69	1.53
4	3-F	459	LEU	CA-CB	9.37	1.69	1.53
4	4-F	459	LEU	CA-CB	9.37	1.69	1.53
4	5-F	459	LEU	CA-CB	9.37	1.69	1.53
4	6-F	459	LEU	CA-CB	9.37	1.69	1.53
4	7-F	459	LEU	CA-CB	9.37	1.69	1.53
4	8-F	459	LEU	CA-CB	9.37	1.69	1.53
3	1-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	1-L	144	LEU	CA-C	9.37	1.65	1.52
3	2-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	2-L	144	LEU	CA-C	9.37	1.65	1.52
3	3-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	3-L	144	LEU	CA-C	9.37	1.65	1.52
3	4-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	4-L	144	LEU	CA-C	9.37	1.65	1.52
3	5-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	5-L	144	LEU	CA-C	9.37	1.65	1.52
3	6-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	6-L	144	LEU	CA-C	9.37	1.65	1.52
3	7-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	7-L	144	LEU	CA-C	9.37	1.65	1.52
3	8-D	1488	GLY	N-CA	-9.37	1.33	1.45
4	8-L	144	LEU	CA-C	9.37	1.65	1.52
3	1-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	2-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	3-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	4-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	5-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	6-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	7-V	1488	GLY	N-CA	-9.36	1.33	1.45
3	8-V	1488	GLY	N-CA	-9.36	1.33	1.45
4	1-L	459	LEU	CA-CB	9.36	1.69	1.53
3	1-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	2-L	459	LEU	CA-CB	9.36	1.69	1.53
3	2-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	3-L	459	LEU	CA-CB	9.36	1.69	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	4-L	459	LEU	CA-CB	9.36	1.69	1.53
3	4-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	5-L	459	LEU	CA-CB	9.36	1.69	1.53
3	5-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	6-L	459	LEU	CA-CB	9.36	1.69	1.53
3	6-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	7-L	459	LEU	CA-CB	9.36	1.69	1.53
3	7-P	1488	GLY	N-CA	-9.36	1.33	1.45
4	8-L	459	LEU	CA-CB	9.36	1.69	1.53
3	8-P	1488	GLY	N-CA	-9.36	1.33	1.45
6	1-Z	384	LEU	CA-C	9.36	1.65	1.52
6	2-Z	384	LEU	CA-C	9.36	1.65	1.52
6	3-Z	384	LEU	CA-C	9.36	1.65	1.52
6	4-Z	384	LEU	CA-C	9.36	1.65	1.52
6	5-Z	384	LEU	CA-C	9.36	1.65	1.52
6	6-Z	384	LEU	CA-C	9.36	1.65	1.52
6	7-Z	384	LEU	CA-C	9.36	1.65	1.52
6	8-Z	384	LEU	CA-C	9.36	1.65	1.52
6	1-N	402	GLU	N-CA	9.35	1.57	1.46
6	2-N	402	GLU	N-CA	9.35	1.57	1.46
6	3-N	402	GLU	N-CA	9.35	1.57	1.46
6	4-N	402	GLU	N-CA	9.35	1.57	1.46
6	5-N	402	GLU	N-CA	9.35	1.57	1.46
6	6-N	402	GLU	N-CA	9.35	1.57	1.46
6	7-N	402	GLU	N-CA	9.35	1.57	1.46
6	8-N	402	GLU	N-CA	9.35	1.57	1.46
4	1-L	334	LEU	CA-C	-9.35	1.40	1.52
4	1-R	144	LEU	CA-C	9.35	1.65	1.52
4	1-X	339	VAL	CA-C	-9.35	1.40	1.52
4	1-X	459	LEU	CA-CB	9.35	1.69	1.53
4	2-L	334	LEU	CA-C	-9.35	1.40	1.52
4	2-R	144	LEU	CA-C	9.35	1.65	1.52
4	2-X	339	VAL	CA-C	-9.35	1.40	1.52
4	2-X	459	LEU	CA-CB	9.35	1.69	1.53
4	3-L	334	LEU	CA-C	-9.35	1.40	1.52
4	3-R	144	LEU	CA-C	9.35	1.65	1.52
4	3-X	339	VAL	CA-C	-9.35	1.40	1.52
4	3-X	459	LEU	CA-CB	9.35	1.69	1.53
4	4-L	334	LEU	CA-C	-9.35	1.40	1.52
4	4-R	144	LEU	CA-C	9.35	1.65	1.52
4	4-X	339	VAL	CA-C	-9.35	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	459	LEU	CA-CB	9.35	1.69	1.53
4	5-L	334	LEU	CA-C	-9.35	1.40	1.52
4	5-R	144	LEU	CA-C	9.35	1.65	1.52
4	5-X	339	VAL	CA-C	-9.35	1.40	1.52
4	5-X	459	LEU	CA-CB	9.35	1.69	1.53
4	6-L	334	LEU	CA-C	-9.35	1.40	1.52
4	6-R	144	LEU	CA-C	9.35	1.65	1.52
4	6-X	339	VAL	CA-C	-9.35	1.40	1.52
4	6-X	459	LEU	CA-CB	9.35	1.69	1.53
4	7-L	334	LEU	CA-C	-9.35	1.40	1.52
4	7-R	144	LEU	CA-C	9.35	1.65	1.52
4	7-X	339	VAL	CA-C	-9.35	1.40	1.52
4	7-X	459	LEU	CA-CB	9.35	1.69	1.53
4	8-L	334	LEU	CA-C	-9.35	1.40	1.52
4	8-R	144	LEU	CA-C	9.35	1.65	1.52
4	8-X	339	VAL	CA-C	-9.35	1.40	1.52
4	8-X	459	LEU	CA-CB	9.35	1.69	1.53
4	1-R	334	LEU	CA-C	-9.34	1.40	1.52
4	2-R	334	LEU	CA-C	-9.34	1.40	1.52
4	3-R	334	LEU	CA-C	-9.34	1.40	1.52
4	4-R	334	LEU	CA-C	-9.34	1.40	1.52
4	5-R	334	LEU	CA-C	-9.34	1.40	1.52
4	6-R	334	LEU	CA-C	-9.34	1.40	1.52
4	7-R	334	LEU	CA-C	-9.34	1.40	1.52
4	8-R	334	LEU	CA-C	-9.34	1.40	1.52
4	1-F	144	LEU	CA-C	9.33	1.65	1.52
6	1-H	402	GLU	N-CA	9.33	1.57	1.46
5	1-S	276	SER	N-CA	9.33	1.58	1.46
4	2-F	144	LEU	CA-C	9.33	1.65	1.52
6	2-H	402	GLU	N-CA	9.33	1.57	1.46
5	2-S	276	SER	N-CA	9.33	1.58	1.46
4	3-F	144	LEU	CA-C	9.33	1.65	1.52
6	3-H	402	GLU	N-CA	9.33	1.57	1.46
5	3-S	276	SER	N-CA	9.33	1.58	1.46
4	4-F	144	LEU	CA-C	9.33	1.65	1.52
6	4-H	402	GLU	N-CA	9.33	1.57	1.46
5	4-S	276	SER	N-CA	9.33	1.58	1.46
4	5-F	144	LEU	CA-C	9.33	1.65	1.52
6	5-H	402	GLU	N-CA	9.33	1.57	1.46
5	5-S	276	SER	N-CA	9.33	1.58	1.46
4	6-F	144	LEU	CA-C	9.33	1.65	1.52
6	6-H	402	GLU	N-CA	9.33	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-S	276	SER	N-CA	9.33	1.58	1.46
4	7-F	144	LEU	CA-C	9.33	1.65	1.52
6	7-H	402	GLU	N-CA	9.33	1.57	1.46
5	7-S	276	SER	N-CA	9.33	1.58	1.46
4	8-F	144	LEU	CA-C	9.33	1.65	1.52
6	8-H	402	GLU	N-CA	9.33	1.57	1.46
5	8-S	276	SER	N-CA	9.33	1.58	1.46
4	1-F	334	LEU	CA-C	-9.33	1.40	1.52
4	2-F	334	LEU	CA-C	-9.33	1.40	1.52
4	3-F	334	LEU	CA-C	-9.33	1.40	1.52
4	4-F	334	LEU	CA-C	-9.33	1.40	1.52
4	5-F	334	LEU	CA-C	-9.33	1.40	1.52
4	6-F	334	LEU	CA-C	-9.33	1.40	1.52
4	7-F	334	LEU	CA-C	-9.33	1.40	1.52
4	8-F	334	LEU	CA-C	-9.33	1.40	1.52
4	1-X	144	LEU	CA-C	9.33	1.65	1.52
4	2-X	144	LEU	CA-C	9.33	1.65	1.52
4	3-X	144	LEU	CA-C	9.33	1.65	1.52
4	4-X	144	LEU	CA-C	9.33	1.65	1.52
4	5-X	144	LEU	CA-C	9.33	1.65	1.52
4	6-X	144	LEU	CA-C	9.33	1.65	1.52
4	7-X	144	LEU	CA-C	9.33	1.65	1.52
4	8-X	144	LEU	CA-C	9.33	1.65	1.52
4	1-X	452	ARG	CA-CB	9.32	1.69	1.53
4	2-X	452	ARG	CA-CB	9.32	1.69	1.53
4	3-X	452	ARG	CA-CB	9.32	1.69	1.53
4	4-X	452	ARG	CA-CB	9.32	1.69	1.53
4	5-X	452	ARG	CA-CB	9.32	1.69	1.53
4	6-X	452	ARG	CA-CB	9.32	1.69	1.53
4	7-X	452	ARG	CA-CB	9.32	1.69	1.53
4	8-X	452	ARG	CA-CB	9.32	1.69	1.53
6	1-T	384	LEU	CA-C	9.31	1.64	1.52
6	2-T	384	LEU	CA-C	9.31	1.64	1.52
6	3-T	384	LEU	CA-C	9.31	1.64	1.52
6	4-T	384	LEU	CA-C	9.31	1.64	1.52
6	5-T	384	LEU	CA-C	9.31	1.64	1.52
6	6-T	384	LEU	CA-C	9.31	1.64	1.52
6	7-T	384	LEU	CA-C	9.31	1.64	1.52
6	8-T	384	LEU	CA-C	9.31	1.64	1.52
4	1-F	339	VAL	CA-C	-9.31	1.40	1.52
4	2-F	339	VAL	CA-C	-9.31	1.40	1.52
4	3-F	339	VAL	CA-C	-9.31	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	339	VAL	CA-C	-9.31	1.40	1.52
4	5-F	339	VAL	CA-C	-9.31	1.40	1.52
4	6-F	339	VAL	CA-C	-9.31	1.40	1.52
4	7-F	339	VAL	CA-C	-9.31	1.40	1.52
4	8-F	339	VAL	CA-C	-9.31	1.40	1.52
6	1-H	384	LEU	CA-C	9.31	1.64	1.52
6	1-N	384	LEU	CA-C	9.31	1.64	1.52
4	1-X	334	LEU	CA-C	-9.31	1.40	1.52
6	2-H	384	LEU	CA-C	9.31	1.64	1.52
6	2-N	384	LEU	CA-C	9.31	1.64	1.52
4	2-X	334	LEU	CA-C	-9.31	1.40	1.52
6	3-H	384	LEU	CA-C	9.31	1.64	1.52
6	3-N	384	LEU	CA-C	9.31	1.64	1.52
4	3-X	334	LEU	CA-C	-9.31	1.40	1.52
6	4-H	384	LEU	CA-C	9.31	1.64	1.52
6	4-N	384	LEU	CA-C	9.31	1.64	1.52
4	4-X	334	LEU	CA-C	-9.31	1.40	1.52
6	5-H	384	LEU	CA-C	9.31	1.64	1.52
6	5-N	384	LEU	CA-C	9.31	1.64	1.52
4	5-X	334	LEU	CA-C	-9.31	1.40	1.52
6	6-H	384	LEU	CA-C	9.31	1.64	1.52
6	6-N	384	LEU	CA-C	9.31	1.64	1.52
4	6-X	334	LEU	CA-C	-9.31	1.40	1.52
6	7-H	384	LEU	CA-C	9.31	1.64	1.52
6	7-N	384	LEU	CA-C	9.31	1.64	1.52
4	7-X	334	LEU	CA-C	-9.31	1.40	1.52
6	8-H	384	LEU	CA-C	9.31	1.64	1.52
6	8-N	384	LEU	CA-C	9.31	1.64	1.52
4	8-X	334	LEU	CA-C	-9.31	1.40	1.52
4	1-F	452	ARG	CA-CB	9.30	1.69	1.53
4	2-F	452	ARG	CA-CB	9.30	1.69	1.53
4	3-F	452	ARG	CA-CB	9.30	1.69	1.53
4	4-F	452	ARG	CA-CB	9.30	1.69	1.53
4	5-F	452	ARG	CA-CB	9.30	1.69	1.53
4	6-F	452	ARG	CA-CB	9.30	1.69	1.53
4	7-F	452	ARG	CA-CB	9.30	1.69	1.53
4	8-F	452	ARG	CA-CB	9.30	1.69	1.53
4	1-R	339	VAL	CA-C	-9.30	1.40	1.52
4	2-R	339	VAL	CA-C	-9.30	1.40	1.52
4	3-R	339	VAL	CA-C	-9.30	1.40	1.52
4	4-R	339	VAL	CA-C	-9.30	1.40	1.52
4	5-R	339	VAL	CA-C	-9.30	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	339	VAL	CA-C	-9.30	1.40	1.52
4	7-R	339	VAL	CA-C	-9.30	1.40	1.52
4	8-R	339	VAL	CA-C	-9.30	1.40	1.52
4	1-R	452	ARG	CA-CB	9.29	1.69	1.53
4	2-R	452	ARG	CA-CB	9.29	1.69	1.53
4	3-R	452	ARG	CA-CB	9.29	1.69	1.53
4	4-R	452	ARG	CA-CB	9.29	1.69	1.53
4	5-R	452	ARG	CA-CB	9.29	1.69	1.53
4	6-R	452	ARG	CA-CB	9.29	1.69	1.53
4	7-R	452	ARG	CA-CB	9.29	1.69	1.53
4	8-R	452	ARG	CA-CB	9.29	1.69	1.53
4	1-F	446	ALA	CA-CB	9.28	1.67	1.53
4	2-F	446	ALA	CA-CB	9.28	1.67	1.53
4	3-F	446	ALA	CA-CB	9.28	1.67	1.53
4	4-F	446	ALA	CA-CB	9.28	1.67	1.53
4	5-F	446	ALA	CA-CB	9.28	1.67	1.53
4	6-F	446	ALA	CA-CB	9.28	1.67	1.53
4	7-F	446	ALA	CA-CB	9.28	1.67	1.53
4	8-F	446	ALA	CA-CB	9.28	1.67	1.53
4	1-L	339	VAL	CA-C	-9.28	1.40	1.52
4	2-L	339	VAL	CA-C	-9.28	1.40	1.52
4	3-L	339	VAL	CA-C	-9.28	1.40	1.52
4	4-L	339	VAL	CA-C	-9.28	1.40	1.52
4	5-L	339	VAL	CA-C	-9.28	1.40	1.52
4	6-L	339	VAL	CA-C	-9.28	1.40	1.52
4	7-L	339	VAL	CA-C	-9.28	1.40	1.52
4	8-L	339	VAL	CA-C	-9.28	1.40	1.52
4	1-L	446	ALA	CA-CB	9.27	1.67	1.53
4	2-L	446	ALA	CA-CB	9.27	1.67	1.53
4	3-L	446	ALA	CA-CB	9.27	1.67	1.53
4	4-L	446	ALA	CA-CB	9.27	1.67	1.53
4	5-L	446	ALA	CA-CB	9.27	1.67	1.53
4	6-L	446	ALA	CA-CB	9.27	1.67	1.53
4	7-L	446	ALA	CA-CB	9.27	1.67	1.53
4	8-L	446	ALA	CA-CB	9.27	1.67	1.53
4	1-R	446	ALA	CA-CB	9.27	1.67	1.53
4	2-R	446	ALA	CA-CB	9.27	1.67	1.53
4	3-R	446	ALA	CA-CB	9.27	1.67	1.53
4	4-R	446	ALA	CA-CB	9.27	1.67	1.53
4	5-R	446	ALA	CA-CB	9.27	1.67	1.53
4	6-R	446	ALA	CA-CB	9.27	1.67	1.53
4	7-R	446	ALA	CA-CB	9.27	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	446	ALA	CA-CB	9.27	1.67	1.53
4	1-L	452	ARG	CA-CB	9.26	1.69	1.53
4	2-L	452	ARG	CA-CB	9.26	1.69	1.53
4	3-L	452	ARG	CA-CB	9.26	1.69	1.53
4	4-L	452	ARG	CA-CB	9.26	1.69	1.53
4	5-L	452	ARG	CA-CB	9.26	1.69	1.53
4	6-L	452	ARG	CA-CB	9.26	1.69	1.53
4	7-L	452	ARG	CA-CB	9.26	1.69	1.53
4	8-L	452	ARG	CA-CB	9.26	1.69	1.53
4	1-X	446	ALA	CA-CB	9.26	1.67	1.53
4	2-X	446	ALA	CA-CB	9.26	1.67	1.53
4	3-X	446	ALA	CA-CB	9.26	1.67	1.53
4	4-X	446	ALA	CA-CB	9.26	1.67	1.53
4	5-X	446	ALA	CA-CB	9.26	1.67	1.53
4	6-X	446	ALA	CA-CB	9.26	1.67	1.53
4	7-X	446	ALA	CA-CB	9.26	1.67	1.53
4	8-X	446	ALA	CA-CB	9.26	1.67	1.53
4	1-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	2-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	3-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	4-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	5-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	6-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	7-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	8-X	320	GLU	CA-CB	-9.25	1.38	1.53
4	1-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	2-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	3-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	4-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	5-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	6-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	7-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	8-L	320	GLU	CA-CB	-9.22	1.38	1.53
4	1-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	2-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	3-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	4-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	5-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	6-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	7-R	320	GLU	CA-CB	-9.21	1.38	1.53
4	8-R	320	GLU	CA-CB	-9.21	1.38	1.53
3	1-D	1507	ASP	C-N	9.21	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-D	1507	ASP	C-N	9.21	1.46	1.33
3	3-D	1507	ASP	C-N	9.21	1.46	1.33
3	4-D	1507	ASP	C-N	9.21	1.46	1.33
3	5-D	1507	ASP	C-N	9.21	1.46	1.33
3	6-D	1507	ASP	C-N	9.21	1.46	1.33
3	7-D	1507	ASP	C-N	9.21	1.46	1.33
3	8-D	1507	ASP	C-N	9.21	1.46	1.33
3	1-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	1-R	405	ALA	N-CA	-9.21	1.34	1.46
3	2-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	2-R	405	ALA	N-CA	-9.21	1.34	1.46
3	3-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	3-R	405	ALA	N-CA	-9.21	1.34	1.46
3	4-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	4-R	405	ALA	N-CA	-9.21	1.34	1.46
3	5-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	5-R	405	ALA	N-CA	-9.21	1.34	1.46
3	6-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	6-R	405	ALA	N-CA	-9.21	1.34	1.46
3	7-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	7-R	405	ALA	N-CA	-9.21	1.34	1.46
3	8-P	1513	LEU	CA-C	-9.21	1.40	1.52
4	8-R	405	ALA	N-CA	-9.21	1.34	1.46
3	1-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	2-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	3-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	4-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	5-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	6-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	7-J	1513	LEU	CA-C	-9.21	1.40	1.52
3	8-J	1513	LEU	CA-C	-9.21	1.40	1.52
4	1-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	2-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	3-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	4-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	5-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	6-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	7-F	320	GLU	CA-CB	-9.19	1.38	1.53
4	8-F	320	GLU	CA-CB	-9.19	1.38	1.53
3	1-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	2-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	3-D	1513	LEU	CA-C	-9.19	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	5-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	6-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	7-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	8-D	1513	LEU	CA-C	-9.19	1.40	1.52
3	1-J	1507	ASP	C-N	9.19	1.46	1.33
3	2-J	1507	ASP	C-N	9.19	1.46	1.33
3	3-J	1507	ASP	C-N	9.19	1.46	1.33
3	4-J	1507	ASP	C-N	9.19	1.46	1.33
3	5-J	1507	ASP	C-N	9.19	1.46	1.33
3	6-J	1507	ASP	C-N	9.19	1.46	1.33
3	7-J	1507	ASP	C-N	9.19	1.46	1.33
3	8-J	1507	ASP	C-N	9.19	1.46	1.33
4	1-L	405	ALA	N-CA	-9.19	1.34	1.46
4	2-L	405	ALA	N-CA	-9.19	1.34	1.46
4	3-L	405	ALA	N-CA	-9.19	1.34	1.46
4	4-L	405	ALA	N-CA	-9.19	1.34	1.46
4	5-L	405	ALA	N-CA	-9.19	1.34	1.46
4	6-L	405	ALA	N-CA	-9.19	1.34	1.46
4	7-L	405	ALA	N-CA	-9.19	1.34	1.46
4	8-L	405	ALA	N-CA	-9.19	1.34	1.46
4	1-F	405	ALA	N-CA	-9.18	1.34	1.46
4	2-F	405	ALA	N-CA	-9.18	1.34	1.46
4	3-F	405	ALA	N-CA	-9.18	1.34	1.46
4	4-F	405	ALA	N-CA	-9.18	1.34	1.46
4	5-F	405	ALA	N-CA	-9.18	1.34	1.46
4	6-F	405	ALA	N-CA	-9.18	1.34	1.46
4	7-F	405	ALA	N-CA	-9.18	1.34	1.46
4	8-F	405	ALA	N-CA	-9.18	1.34	1.46
4	1-X	405	ALA	N-CA	-9.17	1.34	1.46
4	2-X	405	ALA	N-CA	-9.17	1.34	1.46
4	3-X	405	ALA	N-CA	-9.17	1.34	1.46
4	4-X	405	ALA	N-CA	-9.17	1.34	1.46
4	5-X	405	ALA	N-CA	-9.17	1.34	1.46
4	6-X	405	ALA	N-CA	-9.17	1.34	1.46
4	7-X	405	ALA	N-CA	-9.17	1.34	1.46
4	8-X	405	ALA	N-CA	-9.17	1.34	1.46
3	1-P	1507	ASP	C-N	9.16	1.46	1.33
3	2-P	1507	ASP	C-N	9.16	1.46	1.33
3	3-P	1507	ASP	C-N	9.16	1.46	1.33
3	4-P	1507	ASP	C-N	9.16	1.46	1.33
3	5-P	1507	ASP	C-N	9.16	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-P	1507	ASP	C-N	9.16	1.46	1.33
3	7-P	1507	ASP	C-N	9.16	1.46	1.33
3	8-P	1507	ASP	C-N	9.16	1.46	1.33
3	1-V	1507	ASP	C-N	9.14	1.46	1.33
3	2-V	1507	ASP	C-N	9.14	1.46	1.33
3	3-V	1507	ASP	C-N	9.14	1.46	1.33
3	4-V	1507	ASP	C-N	9.14	1.46	1.33
3	5-V	1507	ASP	C-N	9.14	1.46	1.33
3	6-V	1507	ASP	C-N	9.14	1.46	1.33
3	7-V	1507	ASP	C-N	9.14	1.46	1.33
3	8-V	1507	ASP	C-N	9.14	1.46	1.33
3	1-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	2-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	3-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	4-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	5-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	6-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	7-V	1513	LEU	CA-C	-9.14	1.40	1.52
3	8-V	1513	LEU	CA-C	-9.14	1.40	1.52
4	1-R	449	SER	C-O	9.13	1.35	1.24
4	2-R	449	SER	C-O	9.13	1.35	1.24
4	3-R	449	SER	C-O	9.13	1.35	1.24
4	4-R	449	SER	C-O	9.13	1.35	1.24
4	5-R	449	SER	C-O	9.13	1.35	1.24
4	6-R	449	SER	C-O	9.13	1.35	1.24
4	7-R	449	SER	C-O	9.13	1.35	1.24
4	8-R	449	SER	C-O	9.13	1.35	1.24
6	1-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	2-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	3-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	4-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	5-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	6-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	7-T	402	GLU	CA-CB	-9.13	1.39	1.53
6	8-T	402	GLU	CA-CB	-9.13	1.39	1.53
5	1-S	342	PRO	CA-CB	9.13	1.66	1.53
5	2-S	342	PRO	CA-CB	9.13	1.66	1.53
5	3-S	342	PRO	CA-CB	9.13	1.66	1.53
5	4-S	342	PRO	CA-CB	9.13	1.66	1.53
5	5-S	342	PRO	CA-CB	9.13	1.66	1.53
5	6-S	342	PRO	CA-CB	9.13	1.66	1.53
5	7-S	342	PRO	CA-CB	9.13	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	342	PRO	CA-CB	9.13	1.66	1.53
3	1-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	2-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	3-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	4-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	5-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	6-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	7-J	1516	LEU	N-CA	-9.12	1.35	1.46
3	8-J	1516	LEU	N-CA	-9.12	1.35	1.46
4	1-X	449	SER	C-O	9.12	1.35	1.24
4	2-X	449	SER	C-O	9.12	1.35	1.24
4	3-X	449	SER	C-O	9.12	1.35	1.24
4	4-X	449	SER	C-O	9.12	1.35	1.24
4	5-X	449	SER	C-O	9.12	1.35	1.24
4	6-X	449	SER	C-O	9.12	1.35	1.24
4	7-X	449	SER	C-O	9.12	1.35	1.24
4	8-X	449	SER	C-O	9.12	1.35	1.24
4	1-F	449	SER	C-O	9.11	1.35	1.24
4	1-L	449	SER	C-O	9.12	1.35	1.24
3	1-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	2-F	449	SER	C-O	9.11	1.35	1.24
4	2-L	449	SER	C-O	9.12	1.35	1.24
3	2-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	3-F	449	SER	C-O	9.11	1.35	1.24
4	3-L	449	SER	C-O	9.12	1.35	1.24
3	3-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	4-F	449	SER	C-O	9.11	1.35	1.24
4	4-L	449	SER	C-O	9.12	1.35	1.24
3	4-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	5-F	449	SER	C-O	9.11	1.35	1.24
4	5-L	449	SER	C-O	9.12	1.35	1.24
3	5-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	6-F	449	SER	C-O	9.11	1.35	1.24
4	6-L	449	SER	C-O	9.12	1.35	1.24
3	6-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	7-F	449	SER	C-O	9.11	1.35	1.24
4	7-L	449	SER	C-O	9.12	1.35	1.24
3	7-V	1516	LEU	N-CA	-9.12	1.35	1.46
4	8-F	449	SER	C-O	9.11	1.35	1.24
4	8-L	449	SER	C-O	9.12	1.35	1.24
3	8-V	1516	LEU	N-CA	-9.12	1.35	1.46
6	1-Z	402	GLU	CA-CB	-9.11	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-Z	402	GLU	CA-CB	-9.11	1.39	1.53
6	3-Z	402	GLU	CA-CB	-9.11	1.39	1.53
6	4-Z	402	GLU	CA-CB	-9.11	1.39	1.53
6	5-Z	402	GLU	CA-CB	-9.11	1.39	1.53
6	6-Z	402	GLU	CA-CB	-9.11	1.39	1.53
6	7-Z	402	GLU	CA-CB	-9.11	1.39	1.53
6	8-Z	402	GLU	CA-CB	-9.11	1.39	1.53
5	1-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	2-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	3-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	4-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	5-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	6-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	7-Y	342	PRO	CA-CB	9.11	1.66	1.53
5	8-Y	342	PRO	CA-CB	9.11	1.66	1.53
6	1-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	2-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	3-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	4-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	5-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	6-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	7-N	402	GLU	CA-CB	-9.10	1.39	1.53
6	8-N	402	GLU	CA-CB	-9.10	1.39	1.53
3	1-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	2-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	3-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	4-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	5-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	6-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	7-J	1539	LEU	CA-C	-9.09	1.40	1.52
3	8-J	1539	LEU	CA-C	-9.09	1.40	1.52
6	1-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	1-M	342	PRO	CA-CB	9.09	1.66	1.53
6	2-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	2-M	342	PRO	CA-CB	9.09	1.66	1.53
6	3-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	3-M	342	PRO	CA-CB	9.09	1.66	1.53
6	4-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	4-M	342	PRO	CA-CB	9.09	1.66	1.53
6	5-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	5-M	342	PRO	CA-CB	9.09	1.66	1.53
6	6-H	402	GLU	CA-CB	-9.09	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	342	PRO	CA-CB	9.09	1.66	1.53
6	7-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	7-M	342	PRO	CA-CB	9.09	1.66	1.53
6	8-H	402	GLU	CA-CB	-9.09	1.39	1.53
5	8-M	342	PRO	CA-CB	9.09	1.66	1.53
5	1-G	342	PRO	CA-CB	9.08	1.66	1.53
5	2-G	342	PRO	CA-CB	9.08	1.66	1.53
5	3-G	342	PRO	CA-CB	9.08	1.66	1.53
5	4-G	342	PRO	CA-CB	9.08	1.66	1.53
5	5-G	342	PRO	CA-CB	9.08	1.66	1.53
5	6-G	342	PRO	CA-CB	9.08	1.66	1.53
5	7-G	342	PRO	CA-CB	9.08	1.66	1.53
5	8-G	342	PRO	CA-CB	9.08	1.66	1.53
6	1-H	373	THR	CA-C	9.07	1.64	1.52
6	2-H	373	THR	CA-C	9.07	1.64	1.52
6	3-H	373	THR	CA-C	9.07	1.64	1.52
6	4-H	373	THR	CA-C	9.07	1.64	1.52
6	5-H	373	THR	CA-C	9.07	1.64	1.52
6	6-H	373	THR	CA-C	9.07	1.64	1.52
6	7-H	373	THR	CA-C	9.07	1.64	1.52
6	8-H	373	THR	CA-C	9.07	1.64	1.52
3	1-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	2-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	3-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	4-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	5-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	6-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	7-V	1539	LEU	CA-C	-9.06	1.40	1.52
3	8-V	1539	LEU	CA-C	-9.06	1.40	1.52
4	1-F	436	SER	C-O	9.06	1.35	1.24
3	1-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	2-F	436	SER	C-O	9.06	1.35	1.24
3	2-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	3-F	436	SER	C-O	9.06	1.35	1.24
3	3-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	4-F	436	SER	C-O	9.06	1.35	1.24
3	4-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	5-F	436	SER	C-O	9.06	1.35	1.24
3	5-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	6-F	436	SER	C-O	9.06	1.35	1.24
3	6-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	7-F	436	SER	C-O	9.06	1.35	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-P	1516	LEU	N-CA	-9.06	1.35	1.46
4	8-F	436	SER	C-O	9.06	1.35	1.24
3	8-P	1516	LEU	N-CA	-9.06	1.35	1.46
3	1-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	2-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	3-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	4-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	5-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	6-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	7-D	1516	LEU	N-CA	-9.05	1.35	1.46
3	8-D	1516	LEU	N-CA	-9.05	1.35	1.46
4	1-R	436	SER	C-O	9.04	1.35	1.24
4	2-R	436	SER	C-O	9.04	1.35	1.24
4	3-R	436	SER	C-O	9.04	1.35	1.24
4	4-R	436	SER	C-O	9.04	1.35	1.24
4	5-R	436	SER	C-O	9.04	1.35	1.24
4	6-R	436	SER	C-O	9.04	1.35	1.24
4	7-R	436	SER	C-O	9.04	1.35	1.24
4	8-R	436	SER	C-O	9.04	1.35	1.24
3	1-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	1-M	324	ILE	C-O	9.04	1.36	1.24
3	1-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	2-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	2-M	324	ILE	C-O	9.04	1.36	1.24
3	2-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	3-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	3-M	324	ILE	C-O	9.04	1.36	1.24
3	3-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	4-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	4-M	324	ILE	C-O	9.04	1.36	1.24
3	4-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	5-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	5-M	324	ILE	C-O	9.04	1.36	1.24
3	5-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	6-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	6-M	324	ILE	C-O	9.04	1.36	1.24
3	6-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	7-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	7-M	324	ILE	C-O	9.04	1.36	1.24
3	7-P	1539	LEU	CA-C	-9.04	1.40	1.52
3	8-D	1539	LEU	CA-C	-9.04	1.40	1.52
5	8-M	324	ILE	C-O	9.04	1.36	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-P	1539	LEU	CA-C	-9.04	1.40	1.52
4	1-X	436	SER	C-O	9.04	1.35	1.24
4	2-X	436	SER	C-O	9.04	1.35	1.24
4	3-X	436	SER	C-O	9.04	1.35	1.24
4	4-X	436	SER	C-O	9.04	1.35	1.24
4	5-X	436	SER	C-O	9.04	1.35	1.24
4	6-X	436	SER	C-O	9.04	1.35	1.24
4	7-X	436	SER	C-O	9.04	1.35	1.24
4	8-X	436	SER	C-O	9.04	1.35	1.24
5	1-G	324	ILE	C-O	9.03	1.36	1.24
5	2-G	324	ILE	C-O	9.03	1.36	1.24
5	3-G	324	ILE	C-O	9.03	1.36	1.24
5	4-G	324	ILE	C-O	9.03	1.36	1.24
5	5-G	324	ILE	C-O	9.03	1.36	1.24
5	6-G	324	ILE	C-O	9.03	1.36	1.24
5	7-G	324	ILE	C-O	9.03	1.36	1.24
5	8-G	324	ILE	C-O	9.03	1.36	1.24
4	1-L	436	SER	C-O	9.03	1.34	1.24
6	1-Z	373	THR	CA-C	9.03	1.64	1.52
4	2-L	436	SER	C-O	9.03	1.34	1.24
6	2-Z	373	THR	CA-C	9.03	1.64	1.52
4	3-L	436	SER	C-O	9.03	1.34	1.24
6	3-Z	373	THR	CA-C	9.03	1.64	1.52
4	4-L	436	SER	C-O	9.03	1.34	1.24
6	4-Z	373	THR	CA-C	9.03	1.64	1.52
4	5-L	436	SER	C-O	9.03	1.34	1.24
6	5-Z	373	THR	CA-C	9.03	1.64	1.52
4	6-L	436	SER	C-O	9.03	1.34	1.24
6	6-Z	373	THR	CA-C	9.03	1.64	1.52
4	7-L	436	SER	C-O	9.03	1.34	1.24
6	7-Z	373	THR	CA-C	9.03	1.64	1.52
4	8-L	436	SER	C-O	9.03	1.34	1.24
6	8-Z	373	THR	CA-C	9.03	1.64	1.52
4	1-F	416	THR	CA-C	-9.03	1.41	1.52
4	1-X	416	THR	CA-C	-9.03	1.41	1.52
4	2-F	416	THR	CA-C	-9.03	1.41	1.52
4	2-X	416	THR	CA-C	-9.03	1.41	1.52
4	3-F	416	THR	CA-C	-9.03	1.41	1.52
4	3-X	416	THR	CA-C	-9.03	1.41	1.52
4	4-F	416	THR	CA-C	-9.03	1.41	1.52
4	4-X	416	THR	CA-C	-9.03	1.41	1.52
4	5-F	416	THR	CA-C	-9.03	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-X	416	THR	CA-C	-9.03	1.41	1.52
4	6-F	416	THR	CA-C	-9.03	1.41	1.52
4	6-X	416	THR	CA-C	-9.03	1.41	1.52
4	7-F	416	THR	CA-C	-9.03	1.41	1.52
4	7-X	416	THR	CA-C	-9.03	1.41	1.52
4	8-F	416	THR	CA-C	-9.03	1.41	1.52
4	8-X	416	THR	CA-C	-9.03	1.41	1.52
6	1-N	373	THR	CA-C	9.02	1.64	1.52
6	2-N	373	THR	CA-C	9.02	1.64	1.52
6	3-N	373	THR	CA-C	9.02	1.64	1.52
6	4-N	373	THR	CA-C	9.02	1.64	1.52
6	5-N	373	THR	CA-C	9.02	1.64	1.52
6	6-N	373	THR	CA-C	9.02	1.64	1.52
6	7-N	373	THR	CA-C	9.02	1.64	1.52
6	8-N	373	THR	CA-C	9.02	1.64	1.52
4	1-X	460	LEU	N-CA	-9.01	1.34	1.46
4	2-X	460	LEU	N-CA	-9.01	1.34	1.46
4	3-X	460	LEU	N-CA	-9.01	1.34	1.46
4	4-X	460	LEU	N-CA	-9.01	1.34	1.46
4	5-X	460	LEU	N-CA	-9.01	1.34	1.46
4	6-X	460	LEU	N-CA	-9.01	1.34	1.46
4	7-X	460	LEU	N-CA	-9.01	1.34	1.46
4	8-X	460	LEU	N-CA	-9.01	1.34	1.46
5	1-Y	324	ILE	C-O	9.01	1.36	1.24
5	2-Y	324	ILE	C-O	9.01	1.36	1.24
5	3-Y	324	ILE	C-O	9.01	1.36	1.24
5	4-Y	324	ILE	C-O	9.01	1.36	1.24
5	5-Y	324	ILE	C-O	9.01	1.36	1.24
5	6-Y	324	ILE	C-O	9.01	1.36	1.24
5	7-Y	324	ILE	C-O	9.01	1.36	1.24
5	8-Y	324	ILE	C-O	9.01	1.36	1.24
6	1-T	373	THR	CA-C	9.00	1.64	1.52
6	2-T	373	THR	CA-C	9.00	1.64	1.52
6	3-T	373	THR	CA-C	9.00	1.64	1.52
6	4-T	373	THR	CA-C	9.00	1.64	1.52
6	5-T	373	THR	CA-C	9.00	1.64	1.52
6	6-T	373	THR	CA-C	9.00	1.64	1.52
6	7-T	373	THR	CA-C	9.00	1.64	1.52
6	8-T	373	THR	CA-C	9.00	1.64	1.52
4	1-X	491	VAL	CA-CB	9.00	1.66	1.54
4	2-X	491	VAL	CA-CB	9.00	1.66	1.54
4	3-X	491	VAL	CA-CB	9.00	1.66	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	491	VAL	CA-CB	9.00	1.66	1.54
4	5-X	491	VAL	CA-CB	9.00	1.66	1.54
4	6-X	491	VAL	CA-CB	9.00	1.66	1.54
4	7-X	491	VAL	CA-CB	9.00	1.66	1.54
4	8-X	491	VAL	CA-CB	9.00	1.66	1.54
4	1-L	416	THR	CA-C	-8.99	1.41	1.52
4	2-L	416	THR	CA-C	-8.99	1.41	1.52
4	3-L	416	THR	CA-C	-8.99	1.41	1.52
4	4-L	416	THR	CA-C	-8.99	1.41	1.52
4	5-L	416	THR	CA-C	-8.99	1.41	1.52
4	6-L	416	THR	CA-C	-8.99	1.41	1.52
4	7-L	416	THR	CA-C	-8.99	1.41	1.52
4	8-L	416	THR	CA-C	-8.99	1.41	1.52
5	1-S	324	ILE	C-O	8.98	1.36	1.24
5	2-S	324	ILE	C-O	8.98	1.36	1.24
5	3-S	324	ILE	C-O	8.98	1.36	1.24
5	4-S	324	ILE	C-O	8.98	1.36	1.24
5	5-S	324	ILE	C-O	8.98	1.36	1.24
5	6-S	324	ILE	C-O	8.98	1.36	1.24
5	7-S	324	ILE	C-O	8.98	1.36	1.24
5	8-S	324	ILE	C-O	8.98	1.36	1.24
4	1-F	460	LEU	N-CA	-8.98	1.34	1.46
4	1-L	491	VAL	CA-CB	8.98	1.66	1.54
5	1-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	2-F	460	LEU	N-CA	-8.98	1.34	1.46
4	2-L	491	VAL	CA-CB	8.98	1.66	1.54
5	2-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	3-F	460	LEU	N-CA	-8.98	1.34	1.46
4	3-L	491	VAL	CA-CB	8.98	1.66	1.54
5	3-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	4-F	460	LEU	N-CA	-8.98	1.34	1.46
4	4-L	491	VAL	CA-CB	8.98	1.66	1.54
5	4-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	5-F	460	LEU	N-CA	-8.98	1.34	1.46
4	5-L	491	VAL	CA-CB	8.98	1.66	1.54
5	5-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	6-F	460	LEU	N-CA	-8.98	1.34	1.46
4	6-L	491	VAL	CA-CB	8.98	1.66	1.54
5	6-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	7-F	460	LEU	N-CA	-8.98	1.34	1.46
4	7-L	491	VAL	CA-CB	8.98	1.66	1.54
5	7-S	330	LYS	CA-CB	-8.98	1.38	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	460	LEU	N-CA	-8.98	1.34	1.46
4	8-L	491	VAL	CA-CB	8.98	1.66	1.54
5	8-S	330	LYS	CA-CB	-8.98	1.38	1.54
4	1-R	491	VAL	CA-CB	8.97	1.66	1.54
4	2-R	491	VAL	CA-CB	8.97	1.66	1.54
4	3-R	491	VAL	CA-CB	8.97	1.66	1.54
4	4-R	491	VAL	CA-CB	8.97	1.66	1.54
4	5-R	491	VAL	CA-CB	8.97	1.66	1.54
4	6-R	491	VAL	CA-CB	8.97	1.66	1.54
4	7-R	491	VAL	CA-CB	8.97	1.66	1.54
4	8-R	491	VAL	CA-CB	8.97	1.66	1.54
4	1-L	460	LEU	N-CA	-8.96	1.34	1.46
4	2-L	460	LEU	N-CA	-8.96	1.34	1.46
4	3-L	460	LEU	N-CA	-8.96	1.34	1.46
4	4-L	460	LEU	N-CA	-8.96	1.34	1.46
4	5-L	460	LEU	N-CA	-8.96	1.34	1.46
4	6-L	460	LEU	N-CA	-8.96	1.34	1.46
4	7-L	460	LEU	N-CA	-8.96	1.34	1.46
4	8-L	460	LEU	N-CA	-8.96	1.34	1.46
5	1-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	1-T	412	GLU	CA-CB	8.96	1.66	1.53
5	2-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	2-T	412	GLU	CA-CB	8.96	1.66	1.53
5	3-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	3-T	412	GLU	CA-CB	8.96	1.66	1.53
5	4-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	4-T	412	GLU	CA-CB	8.96	1.66	1.53
5	5-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	5-T	412	GLU	CA-CB	8.96	1.66	1.53
5	6-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	6-T	412	GLU	CA-CB	8.96	1.66	1.53
5	7-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	7-T	412	GLU	CA-CB	8.96	1.66	1.53
5	8-G	330	LYS	CA-CB	-8.96	1.38	1.54
6	8-T	412	GLU	CA-CB	8.96	1.66	1.53
4	1-R	416	THR	CA-C	-8.95	1.41	1.52
4	2-R	416	THR	CA-C	-8.95	1.41	1.52
4	3-R	416	THR	CA-C	-8.95	1.41	1.52
4	4-R	416	THR	CA-C	-8.95	1.41	1.52
4	5-R	416	THR	CA-C	-8.95	1.41	1.52
4	6-R	416	THR	CA-C	-8.95	1.41	1.52
4	7-R	416	THR	CA-C	-8.95	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	416	THR	CA-C	-8.95	1.41	1.52
6	1-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	2-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	3-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	4-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	5-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	6-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	7-Z	412	GLU	CA-CB	8.94	1.66	1.53
6	8-Z	412	GLU	CA-CB	8.94	1.66	1.53
4	1-L	402	ALA	N-CA	8.93	1.57	1.46
4	2-L	402	ALA	N-CA	8.93	1.57	1.46
4	3-L	402	ALA	N-CA	8.93	1.57	1.46
4	4-L	402	ALA	N-CA	8.93	1.57	1.46
4	5-L	402	ALA	N-CA	8.93	1.57	1.46
4	6-L	402	ALA	N-CA	8.93	1.57	1.46
4	7-L	402	ALA	N-CA	8.93	1.57	1.46
4	8-L	402	ALA	N-CA	8.93	1.57	1.46
4	1-F	402	ALA	N-CA	8.93	1.57	1.46
5	1-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	2-F	402	ALA	N-CA	8.93	1.57	1.46
5	2-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	3-F	402	ALA	N-CA	8.93	1.57	1.46
5	3-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	4-F	402	ALA	N-CA	8.93	1.57	1.46
5	4-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	5-F	402	ALA	N-CA	8.93	1.57	1.46
5	5-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	6-F	402	ALA	N-CA	8.93	1.57	1.46
5	6-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	7-F	402	ALA	N-CA	8.93	1.57	1.46
5	7-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	8-F	402	ALA	N-CA	8.93	1.57	1.46
5	8-M	330	LYS	CA-CB	-8.93	1.38	1.54
4	1-R	460	LEU	N-CA	-8.93	1.34	1.46
4	2-R	460	LEU	N-CA	-8.93	1.34	1.46
4	3-R	460	LEU	N-CA	-8.93	1.34	1.46
4	4-R	460	LEU	N-CA	-8.93	1.34	1.46
4	5-R	460	LEU	N-CA	-8.93	1.34	1.46
4	6-R	460	LEU	N-CA	-8.93	1.34	1.46
4	7-R	460	LEU	N-CA	-8.93	1.34	1.46
4	8-R	460	LEU	N-CA	-8.93	1.34	1.46
6	1-N	412	GLU	CA-CB	8.92	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-N	412	GLU	CA-CB	8.92	1.66	1.53
6	3-N	412	GLU	CA-CB	8.92	1.66	1.53
6	4-N	412	GLU	CA-CB	8.92	1.66	1.53
6	5-N	412	GLU	CA-CB	8.92	1.66	1.53
6	6-N	412	GLU	CA-CB	8.92	1.66	1.53
6	7-N	412	GLU	CA-CB	8.92	1.66	1.53
6	8-N	412	GLU	CA-CB	8.92	1.66	1.53
3	1-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	1-X	402	ALA	N-CA	8.92	1.57	1.46
3	2-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	2-X	402	ALA	N-CA	8.92	1.57	1.46
3	3-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	3-X	402	ALA	N-CA	8.92	1.57	1.46
3	4-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	4-X	402	ALA	N-CA	8.92	1.57	1.46
3	5-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	5-X	402	ALA	N-CA	8.92	1.57	1.46
3	6-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	6-X	402	ALA	N-CA	8.92	1.57	1.46
3	7-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	7-X	402	ALA	N-CA	8.92	1.57	1.46
3	8-J	1506	VAL	CA-C	-8.92	1.41	1.52
4	8-X	402	ALA	N-CA	8.92	1.57	1.46
6	1-H	412	GLU	CA-CB	8.91	1.66	1.53
6	2-H	412	GLU	CA-CB	8.91	1.66	1.53
6	3-H	412	GLU	CA-CB	8.91	1.66	1.53
6	4-H	412	GLU	CA-CB	8.91	1.66	1.53
6	5-H	412	GLU	CA-CB	8.91	1.66	1.53
6	6-H	412	GLU	CA-CB	8.91	1.66	1.53
6	7-H	412	GLU	CA-CB	8.91	1.66	1.53
6	8-H	412	GLU	CA-CB	8.91	1.66	1.53
5	1-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	2-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	3-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	4-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	5-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	6-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	7-Y	330	LYS	CA-CB	-8.91	1.38	1.54
5	8-Y	330	LYS	CA-CB	-8.91	1.38	1.54
4	1-F	491	VAL	CA-CB	8.90	1.66	1.54
4	2-F	491	VAL	CA-CB	8.90	1.66	1.54
4	3-F	491	VAL	CA-CB	8.90	1.66	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	491	VAL	CA-CB	8.90	1.66	1.54
4	5-F	491	VAL	CA-CB	8.90	1.66	1.54
4	6-F	491	VAL	CA-CB	8.90	1.66	1.54
4	7-F	491	VAL	CA-CB	8.90	1.66	1.54
4	8-F	491	VAL	CA-CB	8.90	1.66	1.54
4	1-R	402	ALA	N-CA	8.90	1.57	1.46
4	1-R	423	ALA	N-CA	-8.90	1.33	1.46
4	1-X	423	ALA	N-CA	-8.90	1.33	1.46
4	2-R	402	ALA	N-CA	8.90	1.57	1.46
4	2-R	423	ALA	N-CA	-8.90	1.33	1.46
4	2-X	423	ALA	N-CA	-8.90	1.33	1.46
4	3-R	402	ALA	N-CA	8.90	1.57	1.46
4	3-R	423	ALA	N-CA	-8.90	1.33	1.46
4	3-X	423	ALA	N-CA	-8.90	1.33	1.46
4	4-R	402	ALA	N-CA	8.90	1.57	1.46
4	4-R	423	ALA	N-CA	-8.90	1.33	1.46
4	4-X	423	ALA	N-CA	-8.90	1.33	1.46
4	5-R	402	ALA	N-CA	8.90	1.57	1.46
4	5-R	423	ALA	N-CA	-8.90	1.33	1.46
4	5-X	423	ALA	N-CA	-8.90	1.33	1.46
4	6-R	402	ALA	N-CA	8.90	1.57	1.46
4	6-R	423	ALA	N-CA	-8.90	1.33	1.46
4	6-X	423	ALA	N-CA	-8.90	1.33	1.46
4	7-R	402	ALA	N-CA	8.90	1.57	1.46
4	7-R	423	ALA	N-CA	-8.90	1.33	1.46
4	7-X	423	ALA	N-CA	-8.90	1.33	1.46
4	8-R	402	ALA	N-CA	8.90	1.57	1.46
4	8-R	423	ALA	N-CA	-8.90	1.33	1.46
4	8-X	423	ALA	N-CA	-8.90	1.33	1.46
3	1-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	2-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	3-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	4-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	5-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	6-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	7-P	1506	VAL	CA-C	-8.90	1.41	1.52
3	8-P	1506	VAL	CA-C	-8.90	1.41	1.52
2	1-C	9	LEU	N-CA	-8.90	1.35	1.46
4	1-L	423	ALA	N-CA	-8.90	1.33	1.46
2	2-C	9	LEU	N-CA	-8.90	1.35	1.46
4	2-L	423	ALA	N-CA	-8.90	1.33	1.46
2	3-C	9	LEU	N-CA	-8.90	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	3-L	423	ALA	N-CA	-8.90	1.33	1.46
2	4-C	9	LEU	N-CA	-8.90	1.35	1.46
4	4-L	423	ALA	N-CA	-8.90	1.33	1.46
2	5-C	9	LEU	N-CA	-8.90	1.35	1.46
4	5-L	423	ALA	N-CA	-8.90	1.33	1.46
2	6-C	9	LEU	N-CA	-8.90	1.35	1.46
4	6-L	423	ALA	N-CA	-8.90	1.33	1.46
2	7-C	9	LEU	N-CA	-8.90	1.35	1.46
4	7-L	423	ALA	N-CA	-8.90	1.33	1.46
2	8-C	9	LEU	N-CA	-8.90	1.35	1.46
4	8-L	423	ALA	N-CA	-8.90	1.33	1.46
2	1-I	9	LEU	N-CA	-8.89	1.35	1.46
2	2-I	9	LEU	N-CA	-8.89	1.35	1.46
2	3-I	9	LEU	N-CA	-8.89	1.35	1.46
2	4-I	9	LEU	N-CA	-8.89	1.35	1.46
2	5-I	9	LEU	N-CA	-8.89	1.35	1.46
2	6-I	9	LEU	N-CA	-8.89	1.35	1.46
2	7-I	9	LEU	N-CA	-8.89	1.35	1.46
2	8-I	9	LEU	N-CA	-8.89	1.35	1.46
3	1-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	2-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	3-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	4-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	5-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	6-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	7-V	1506	VAL	CA-C	-8.88	1.41	1.52
3	8-V	1506	VAL	CA-C	-8.88	1.41	1.52
4	1-F	423	ALA	N-CA	-8.88	1.33	1.46
4	2-F	423	ALA	N-CA	-8.88	1.33	1.46
4	3-F	423	ALA	N-CA	-8.88	1.33	1.46
4	4-F	423	ALA	N-CA	-8.88	1.33	1.46
4	5-F	423	ALA	N-CA	-8.88	1.33	1.46
4	6-F	423	ALA	N-CA	-8.88	1.33	1.46
4	7-F	423	ALA	N-CA	-8.88	1.33	1.46
4	8-F	423	ALA	N-CA	-8.88	1.33	1.46
2	1-U	9	LEU	N-CA	-8.88	1.35	1.46
2	2-U	9	LEU	N-CA	-8.88	1.35	1.46
2	3-U	9	LEU	N-CA	-8.88	1.35	1.46
2	4-U	9	LEU	N-CA	-8.88	1.35	1.46
2	5-U	9	LEU	N-CA	-8.88	1.35	1.46
2	6-U	9	LEU	N-CA	-8.88	1.35	1.46
2	7-U	9	LEU	N-CA	-8.88	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-U	9	LEU	N-CA	-8.88	1.35	1.46
4	1-L	465	GLN	CA-CB	8.87	1.67	1.53
4	2-L	465	GLN	CA-CB	8.87	1.67	1.53
4	3-L	465	GLN	CA-CB	8.87	1.67	1.53
4	4-L	465	GLN	CA-CB	8.87	1.67	1.53
4	5-L	465	GLN	CA-CB	8.87	1.67	1.53
4	6-L	465	GLN	CA-CB	8.87	1.67	1.53
4	7-L	465	GLN	CA-CB	8.87	1.67	1.53
4	8-L	465	GLN	CA-CB	8.87	1.67	1.53
4	1-F	465	GLN	CA-CB	8.87	1.67	1.53
4	2-F	465	GLN	CA-CB	8.87	1.67	1.53
4	3-F	465	GLN	CA-CB	8.87	1.67	1.53
4	4-F	465	GLN	CA-CB	8.87	1.67	1.53
4	5-F	465	GLN	CA-CB	8.87	1.67	1.53
4	6-F	465	GLN	CA-CB	8.87	1.67	1.53
4	7-F	465	GLN	CA-CB	8.87	1.67	1.53
4	8-F	465	GLN	CA-CB	8.87	1.67	1.53
3	1-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	1-R	465	GLN	CA-CB	8.87	1.67	1.53
3	2-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	2-R	465	GLN	CA-CB	8.87	1.67	1.53
3	3-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	3-R	465	GLN	CA-CB	8.87	1.67	1.53
3	4-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	4-R	465	GLN	CA-CB	8.87	1.67	1.53
3	5-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	5-R	465	GLN	CA-CB	8.87	1.67	1.53
3	6-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	6-R	465	GLN	CA-CB	8.87	1.67	1.53
3	7-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	7-R	465	GLN	CA-CB	8.87	1.67	1.53
3	8-D	1506	VAL	CA-C	-8.87	1.41	1.52
4	8-R	465	GLN	CA-CB	8.87	1.67	1.53
2	1-O	9	LEU	N-CA	-8.87	1.35	1.46
2	2-O	9	LEU	N-CA	-8.87	1.35	1.46
2	3-O	9	LEU	N-CA	-8.87	1.35	1.46
2	4-O	9	LEU	N-CA	-8.87	1.35	1.46
2	5-O	9	LEU	N-CA	-8.87	1.35	1.46
2	6-O	9	LEU	N-CA	-8.87	1.35	1.46
2	7-O	9	LEU	N-CA	-8.87	1.35	1.46
2	8-O	9	LEU	N-CA	-8.87	1.35	1.46
3	1-J	1515	TYR	CA-C	-8.86	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-J	1515	TYR	CA-C	-8.86	1.41	1.52
3	3-J	1515	TYR	CA-C	-8.86	1.41	1.52
3	4-J	1515	TYR	CA-C	-8.86	1.41	1.52
3	5-J	1515	TYR	CA-C	-8.86	1.41	1.52
3	6-J	1515	TYR	CA-C	-8.86	1.41	1.52
3	7-J	1515	TYR	CA-C	-8.86	1.41	1.52
3	8-J	1515	TYR	CA-C	-8.86	1.41	1.52
4	1-X	465	GLN	CA-CB	8.86	1.67	1.53
4	2-X	465	GLN	CA-CB	8.86	1.67	1.53
4	3-X	465	GLN	CA-CB	8.86	1.67	1.53
4	4-X	465	GLN	CA-CB	8.86	1.67	1.53
4	5-X	465	GLN	CA-CB	8.86	1.67	1.53
4	6-X	465	GLN	CA-CB	8.86	1.67	1.53
4	7-X	465	GLN	CA-CB	8.86	1.67	1.53
4	8-X	465	GLN	CA-CB	8.86	1.67	1.53
6	1-N	353	GLN	CA-CB	8.85	1.67	1.53
6	2-N	353	GLN	CA-CB	8.85	1.67	1.53
6	3-N	353	GLN	CA-CB	8.85	1.67	1.53
6	4-N	353	GLN	CA-CB	8.85	1.67	1.53
6	5-N	353	GLN	CA-CB	8.85	1.67	1.53
6	6-N	353	GLN	CA-CB	8.85	1.67	1.53
6	7-N	353	GLN	CA-CB	8.85	1.67	1.53
6	8-N	353	GLN	CA-CB	8.85	1.67	1.53
6	1-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	2-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	3-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	4-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	5-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	6-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	7-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	8-Z	353	GLN	CA-CB	8.84	1.67	1.53
6	1-H	353	GLN	CA-CB	8.84	1.67	1.53
6	2-H	353	GLN	CA-CB	8.84	1.67	1.53
6	3-H	353	GLN	CA-CB	8.84	1.67	1.53
6	4-H	353	GLN	CA-CB	8.84	1.67	1.53
6	5-H	353	GLN	CA-CB	8.84	1.67	1.53
6	6-H	353	GLN	CA-CB	8.84	1.67	1.53
6	7-H	353	GLN	CA-CB	8.84	1.67	1.53
6	8-H	353	GLN	CA-CB	8.84	1.67	1.53
4	1-F	400	GLY	C-N	-8.83	1.21	1.33
6	1-T	353	GLN	CA-CB	8.83	1.67	1.53
4	2-F	400	GLY	C-N	-8.83	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	353	GLN	CA-CB	8.83	1.67	1.53
4	3-F	400	GLY	C-N	-8.83	1.21	1.33
6	3-T	353	GLN	CA-CB	8.83	1.67	1.53
4	4-F	400	GLY	C-N	-8.83	1.21	1.33
6	4-T	353	GLN	CA-CB	8.83	1.67	1.53
4	5-F	400	GLY	C-N	-8.83	1.21	1.33
6	5-T	353	GLN	CA-CB	8.83	1.67	1.53
4	6-F	400	GLY	C-N	-8.83	1.21	1.33
6	6-T	353	GLN	CA-CB	8.83	1.67	1.53
4	7-F	400	GLY	C-N	-8.83	1.21	1.33
6	7-T	353	GLN	CA-CB	8.83	1.67	1.53
4	8-F	400	GLY	C-N	-8.83	1.21	1.33
6	8-T	353	GLN	CA-CB	8.83	1.67	1.53
4	1-R	400	GLY	C-N	-8.82	1.21	1.33
4	2-R	400	GLY	C-N	-8.82	1.21	1.33
4	3-R	400	GLY	C-N	-8.82	1.21	1.33
4	4-R	400	GLY	C-N	-8.82	1.21	1.33
4	5-R	400	GLY	C-N	-8.82	1.21	1.33
4	6-R	400	GLY	C-N	-8.82	1.21	1.33
4	7-R	400	GLY	C-N	-8.82	1.21	1.33
4	8-R	400	GLY	C-N	-8.82	1.21	1.33
3	1-V	1543	GLN	C-N	-8.81	1.23	1.33
3	2-V	1543	GLN	C-N	-8.81	1.23	1.33
3	3-V	1543	GLN	C-N	-8.81	1.23	1.33
3	4-V	1543	GLN	C-N	-8.81	1.23	1.33
3	5-V	1543	GLN	C-N	-8.81	1.23	1.33
3	6-V	1543	GLN	C-N	-8.81	1.23	1.33
3	7-V	1543	GLN	C-N	-8.81	1.23	1.33
3	8-V	1543	GLN	C-N	-8.81	1.23	1.33
3	1-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	2-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	3-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	4-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	5-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	6-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	7-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	8-P	1515	TYR	CA-C	-8.81	1.41	1.52
3	1-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	2-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	3-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	4-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	5-V	1515	TYR	CA-C	-8.79	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	7-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	8-V	1515	TYR	CA-C	-8.79	1.41	1.52
3	1-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	1-X	400	GLY	C-N	-8.79	1.21	1.33
3	2-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	2-X	400	GLY	C-N	-8.79	1.21	1.33
3	3-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	3-X	400	GLY	C-N	-8.79	1.21	1.33
3	4-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	4-X	400	GLY	C-N	-8.79	1.21	1.33
3	5-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	5-X	400	GLY	C-N	-8.79	1.21	1.33
3	6-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	6-X	400	GLY	C-N	-8.79	1.21	1.33
3	7-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	7-X	400	GLY	C-N	-8.79	1.21	1.33
3	8-D	1515	TYR	CA-C	-8.79	1.41	1.52
4	8-X	400	GLY	C-N	-8.79	1.21	1.33
4	1-L	400	GLY	C-N	-8.79	1.21	1.33
3	1-P	1543	GLN	C-N	-8.79	1.23	1.33
4	2-L	400	GLY	C-N	-8.79	1.21	1.33
3	2-P	1543	GLN	C-N	-8.79	1.23	1.33
4	3-L	400	GLY	C-N	-8.79	1.21	1.33
3	3-P	1543	GLN	C-N	-8.79	1.23	1.33
4	4-L	400	GLY	C-N	-8.79	1.21	1.33
3	4-P	1543	GLN	C-N	-8.79	1.23	1.33
4	5-L	400	GLY	C-N	-8.79	1.21	1.33
3	5-P	1543	GLN	C-N	-8.79	1.23	1.33
4	6-L	400	GLY	C-N	-8.79	1.21	1.33
3	6-P	1543	GLN	C-N	-8.79	1.23	1.33
4	7-L	400	GLY	C-N	-8.79	1.21	1.33
3	7-P	1543	GLN	C-N	-8.79	1.23	1.33
4	8-L	400	GLY	C-N	-8.79	1.21	1.33
3	8-P	1543	GLN	C-N	-8.79	1.23	1.33
5	1-S	372	ALA	CA-C	-8.78	1.41	1.52
5	2-S	372	ALA	CA-C	-8.78	1.41	1.52
5	3-S	372	ALA	CA-C	-8.78	1.41	1.52
5	4-S	372	ALA	CA-C	-8.78	1.41	1.52
5	5-S	372	ALA	CA-C	-8.78	1.41	1.52
5	6-S	372	ALA	CA-C	-8.78	1.41	1.52
5	7-S	372	ALA	CA-C	-8.78	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	372	ALA	CA-C	-8.78	1.41	1.52
5	1-G	372	ALA	CA-C	-8.78	1.41	1.52
3	1-J	1543	GLN	C-N	-8.78	1.23	1.33
5	2-G	372	ALA	CA-C	-8.78	1.41	1.52
3	2-J	1543	GLN	C-N	-8.78	1.23	1.33
5	3-G	372	ALA	CA-C	-8.78	1.41	1.52
3	3-J	1543	GLN	C-N	-8.78	1.23	1.33
5	4-G	372	ALA	CA-C	-8.78	1.41	1.52
3	4-J	1543	GLN	C-N	-8.78	1.23	1.33
5	5-G	372	ALA	CA-C	-8.78	1.41	1.52
3	5-J	1543	GLN	C-N	-8.78	1.23	1.33
5	6-G	372	ALA	CA-C	-8.78	1.41	1.52
3	6-J	1543	GLN	C-N	-8.78	1.23	1.33
5	7-G	372	ALA	CA-C	-8.78	1.41	1.52
3	7-J	1543	GLN	C-N	-8.78	1.23	1.33
5	8-G	372	ALA	CA-C	-8.78	1.41	1.52
3	8-J	1543	GLN	C-N	-8.78	1.23	1.33
5	1-M	372	ALA	CA-C	-8.77	1.41	1.52
5	2-M	372	ALA	CA-C	-8.77	1.41	1.52
5	3-M	372	ALA	CA-C	-8.77	1.41	1.52
5	4-M	372	ALA	CA-C	-8.77	1.41	1.52
5	5-M	372	ALA	CA-C	-8.77	1.41	1.52
5	6-M	372	ALA	CA-C	-8.77	1.41	1.52
5	7-M	372	ALA	CA-C	-8.77	1.41	1.52
5	8-M	372	ALA	CA-C	-8.77	1.41	1.52
3	1-D	1543	GLN	C-N	-8.77	1.23	1.33
3	2-D	1543	GLN	C-N	-8.77	1.23	1.33
3	3-D	1543	GLN	C-N	-8.77	1.23	1.33
3	4-D	1543	GLN	C-N	-8.77	1.23	1.33
3	5-D	1543	GLN	C-N	-8.77	1.23	1.33
3	6-D	1543	GLN	C-N	-8.77	1.23	1.33
3	7-D	1543	GLN	C-N	-8.77	1.23	1.33
3	8-D	1543	GLN	C-N	-8.77	1.23	1.33
6	1-H	349	ARG	CA-C	-8.75	1.40	1.52
5	1-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	2-H	349	ARG	CA-C	-8.75	1.40	1.52
5	2-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	3-H	349	ARG	CA-C	-8.75	1.40	1.52
5	3-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	4-H	349	ARG	CA-C	-8.75	1.40	1.52
5	4-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	5-H	349	ARG	CA-C	-8.75	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	6-H	349	ARG	CA-C	-8.75	1.40	1.52
5	6-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	7-H	349	ARG	CA-C	-8.75	1.40	1.52
5	7-Y	372	ALA	CA-C	-8.75	1.41	1.52
6	8-H	349	ARG	CA-C	-8.75	1.40	1.52
5	8-Y	372	ALA	CA-C	-8.75	1.41	1.52
5	1-G	322	ALA	CA-CB	8.74	1.67	1.53
5	2-G	322	ALA	CA-CB	8.74	1.67	1.53
5	3-G	322	ALA	CA-CB	8.74	1.67	1.53
5	4-G	322	ALA	CA-CB	8.74	1.67	1.53
5	5-G	322	ALA	CA-CB	8.74	1.67	1.53
5	6-G	322	ALA	CA-CB	8.74	1.67	1.53
5	7-G	322	ALA	CA-CB	8.74	1.67	1.53
5	8-G	322	ALA	CA-CB	8.74	1.67	1.53
6	1-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	2-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	3-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	4-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	5-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	6-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	7-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	8-Z	349	ARG	CA-C	-8.74	1.40	1.52
6	1-T	349	ARG	CA-C	-8.74	1.40	1.52
6	2-T	349	ARG	CA-C	-8.74	1.40	1.52
6	3-T	349	ARG	CA-C	-8.74	1.40	1.52
6	4-T	349	ARG	CA-C	-8.74	1.40	1.52
6	5-T	349	ARG	CA-C	-8.74	1.40	1.52
6	6-T	349	ARG	CA-C	-8.74	1.40	1.52
6	7-T	349	ARG	CA-C	-8.74	1.40	1.52
6	8-T	349	ARG	CA-C	-8.74	1.40	1.52
5	1-M	322	ALA	CA-CB	8.73	1.67	1.53
5	2-M	322	ALA	CA-CB	8.73	1.67	1.53
5	3-M	322	ALA	CA-CB	8.73	1.67	1.53
5	4-M	322	ALA	CA-CB	8.73	1.67	1.53
5	5-M	322	ALA	CA-CB	8.73	1.67	1.53
5	6-M	322	ALA	CA-CB	8.73	1.67	1.53
5	7-M	322	ALA	CA-CB	8.73	1.67	1.53
5	8-M	322	ALA	CA-CB	8.73	1.67	1.53
5	1-Y	322	ALA	CA-CB	8.72	1.67	1.53
5	2-Y	322	ALA	CA-CB	8.72	1.67	1.53
5	3-Y	322	ALA	CA-CB	8.72	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-Y	322	ALA	CA-CB	8.72	1.67	1.53
5	5-Y	322	ALA	CA-CB	8.72	1.67	1.53
5	6-Y	322	ALA	CA-CB	8.72	1.67	1.53
5	7-Y	322	ALA	CA-CB	8.72	1.67	1.53
5	8-Y	322	ALA	CA-CB	8.72	1.67	1.53
6	1-N	494	LEU	C-N	-8.72	1.21	1.33
6	2-N	494	LEU	C-N	-8.72	1.21	1.33
6	3-N	494	LEU	C-N	-8.72	1.21	1.33
6	4-N	494	LEU	C-N	-8.72	1.21	1.33
6	5-N	494	LEU	C-N	-8.72	1.21	1.33
6	6-N	494	LEU	C-N	-8.72	1.21	1.33
6	7-N	494	LEU	C-N	-8.72	1.21	1.33
6	8-N	494	LEU	C-N	-8.72	1.21	1.33
6	1-T	408	SER	C-N	-8.71	1.13	1.33
6	2-T	408	SER	C-N	-8.71	1.13	1.33
6	3-T	408	SER	C-N	-8.71	1.13	1.33
6	4-T	408	SER	C-N	-8.71	1.13	1.33
6	5-T	408	SER	C-N	-8.71	1.13	1.33
6	6-T	408	SER	C-N	-8.71	1.13	1.33
6	7-T	408	SER	C-N	-8.71	1.13	1.33
6	8-T	408	SER	C-N	-8.71	1.13	1.33
6	1-N	349	ARG	CA-C	-8.71	1.40	1.52
5	1-S	322	ALA	CA-CB	8.71	1.66	1.53
6	2-N	349	ARG	CA-C	-8.71	1.40	1.52
5	2-S	322	ALA	CA-CB	8.71	1.66	1.53
6	3-N	349	ARG	CA-C	-8.71	1.40	1.52
5	3-S	322	ALA	CA-CB	8.71	1.66	1.53
6	4-N	349	ARG	CA-C	-8.71	1.40	1.52
5	4-S	322	ALA	CA-CB	8.71	1.66	1.53
6	5-N	349	ARG	CA-C	-8.71	1.40	1.52
5	5-S	322	ALA	CA-CB	8.71	1.66	1.53
6	6-N	349	ARG	CA-C	-8.71	1.40	1.52
5	6-S	322	ALA	CA-CB	8.71	1.66	1.53
6	7-N	349	ARG	CA-C	-8.71	1.40	1.52
5	7-S	322	ALA	CA-CB	8.71	1.66	1.53
6	8-N	349	ARG	CA-C	-8.71	1.40	1.52
5	8-S	322	ALA	CA-CB	8.71	1.66	1.53
6	1-Z	408	SER	C-N	-8.70	1.13	1.33
6	2-Z	408	SER	C-N	-8.70	1.13	1.33
6	3-Z	408	SER	C-N	-8.70	1.13	1.33
6	4-Z	408	SER	C-N	-8.70	1.13	1.33
6	5-Z	408	SER	C-N	-8.70	1.13	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-Z	408	SER	C-N	-8.70	1.13	1.33
6	7-Z	408	SER	C-N	-8.70	1.13	1.33
6	8-Z	408	SER	C-N	-8.70	1.13	1.33
6	1-N	408	SER	C-N	-8.70	1.13	1.33
6	2-N	408	SER	C-N	-8.70	1.13	1.33
6	3-N	408	SER	C-N	-8.70	1.13	1.33
6	4-N	408	SER	C-N	-8.70	1.13	1.33
6	5-N	408	SER	C-N	-8.70	1.13	1.33
6	6-N	408	SER	C-N	-8.70	1.13	1.33
6	7-N	408	SER	C-N	-8.70	1.13	1.33
6	8-N	408	SER	C-N	-8.70	1.13	1.33
6	1-H	408	SER	C-N	-8.69	1.13	1.33
6	2-H	408	SER	C-N	-8.69	1.13	1.33
6	3-H	408	SER	C-N	-8.69	1.13	1.33
6	4-H	408	SER	C-N	-8.69	1.13	1.33
6	5-H	408	SER	C-N	-8.69	1.13	1.33
6	6-H	408	SER	C-N	-8.69	1.13	1.33
6	7-H	408	SER	C-N	-8.69	1.13	1.33
6	8-H	408	SER	C-N	-8.69	1.13	1.33
6	1-H	494	LEU	C-N	-8.69	1.21	1.33
6	2-H	494	LEU	C-N	-8.69	1.21	1.33
6	3-H	494	LEU	C-N	-8.69	1.21	1.33
6	4-H	494	LEU	C-N	-8.69	1.21	1.33
6	5-H	494	LEU	C-N	-8.69	1.21	1.33
6	6-H	494	LEU	C-N	-8.69	1.21	1.33
6	7-H	494	LEU	C-N	-8.69	1.21	1.33
6	8-H	494	LEU	C-N	-8.69	1.21	1.33
6	1-T	494	LEU	C-N	-8.68	1.21	1.33
6	1-Z	494	LEU	C-N	-8.68	1.21	1.33
6	2-T	494	LEU	C-N	-8.68	1.21	1.33
6	2-Z	494	LEU	C-N	-8.68	1.21	1.33
6	3-T	494	LEU	C-N	-8.68	1.21	1.33
6	3-Z	494	LEU	C-N	-8.68	1.21	1.33
6	4-T	494	LEU	C-N	-8.68	1.21	1.33
6	4-Z	494	LEU	C-N	-8.68	1.21	1.33
6	5-T	494	LEU	C-N	-8.68	1.21	1.33
6	5-Z	494	LEU	C-N	-8.68	1.21	1.33
6	6-T	494	LEU	C-N	-8.68	1.21	1.33
6	6-Z	494	LEU	C-N	-8.68	1.21	1.33
6	7-T	494	LEU	C-N	-8.68	1.21	1.33
6	7-Z	494	LEU	C-N	-8.68	1.21	1.33
6	8-T	494	LEU	C-N	-8.68	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	494	LEU	C-N	-8.68	1.21	1.33
4	1-R	436	SER	CA-CB	8.64	1.67	1.53
4	2-R	436	SER	CA-CB	8.64	1.67	1.53
4	3-R	436	SER	CA-CB	8.64	1.67	1.53
4	4-R	436	SER	CA-CB	8.64	1.67	1.53
4	5-R	436	SER	CA-CB	8.64	1.67	1.53
4	6-R	436	SER	CA-CB	8.64	1.67	1.53
4	7-R	436	SER	CA-CB	8.64	1.67	1.53
4	8-R	436	SER	CA-CB	8.64	1.67	1.53
4	1-X	436	SER	CA-CB	8.63	1.67	1.53
4	2-X	436	SER	CA-CB	8.63	1.67	1.53
4	3-X	436	SER	CA-CB	8.63	1.67	1.53
4	4-X	436	SER	CA-CB	8.63	1.67	1.53
4	5-X	436	SER	CA-CB	8.63	1.67	1.53
4	6-X	436	SER	CA-CB	8.63	1.67	1.53
4	7-X	436	SER	CA-CB	8.63	1.67	1.53
4	8-X	436	SER	CA-CB	8.63	1.67	1.53
4	1-L	436	SER	CA-CB	8.62	1.67	1.53
4	2-L	436	SER	CA-CB	8.62	1.67	1.53
4	3-L	436	SER	CA-CB	8.62	1.67	1.53
4	4-L	436	SER	CA-CB	8.62	1.67	1.53
4	5-L	436	SER	CA-CB	8.62	1.67	1.53
4	6-L	436	SER	CA-CB	8.62	1.67	1.53
4	7-L	436	SER	CA-CB	8.62	1.67	1.53
4	8-L	436	SER	CA-CB	8.62	1.67	1.53
4	1-F	436	SER	CA-CB	8.61	1.67	1.53
4	2-F	436	SER	CA-CB	8.61	1.67	1.53
4	3-F	436	SER	CA-CB	8.61	1.67	1.53
4	4-F	436	SER	CA-CB	8.61	1.67	1.53
4	5-F	436	SER	CA-CB	8.61	1.67	1.53
4	6-F	436	SER	CA-CB	8.61	1.67	1.53
4	7-F	436	SER	CA-CB	8.61	1.67	1.53
4	8-F	436	SER	CA-CB	8.61	1.67	1.53
4	1-R	421	LEU	N-CA	-8.58	1.36	1.46
4	2-R	421	LEU	N-CA	-8.58	1.36	1.46
4	3-R	421	LEU	N-CA	-8.58	1.36	1.46
4	4-R	421	LEU	N-CA	-8.58	1.36	1.46
4	5-R	421	LEU	N-CA	-8.58	1.36	1.46
4	6-R	421	LEU	N-CA	-8.58	1.36	1.46
4	7-R	421	LEU	N-CA	-8.58	1.36	1.46
4	8-R	421	LEU	N-CA	-8.58	1.36	1.46
6	1-T	467	THR	C-N	8.57	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	467	THR	C-N	8.57	1.46	1.33
6	3-T	467	THR	C-N	8.57	1.46	1.33
6	4-T	467	THR	C-N	8.57	1.46	1.33
6	5-T	467	THR	C-N	8.57	1.46	1.33
6	6-T	467	THR	C-N	8.57	1.46	1.33
6	7-T	467	THR	C-N	8.57	1.46	1.33
6	8-T	467	THR	C-N	8.57	1.46	1.33
4	1-F	421	LEU	N-CA	-8.54	1.36	1.46
4	2-F	421	LEU	N-CA	-8.54	1.36	1.46
4	3-F	421	LEU	N-CA	-8.54	1.36	1.46
4	4-F	421	LEU	N-CA	-8.54	1.36	1.46
4	5-F	421	LEU	N-CA	-8.54	1.36	1.46
4	6-F	421	LEU	N-CA	-8.54	1.36	1.46
4	7-F	421	LEU	N-CA	-8.54	1.36	1.46
4	8-F	421	LEU	N-CA	-8.54	1.36	1.46
4	1-X	421	LEU	N-CA	-8.54	1.36	1.46
4	2-X	421	LEU	N-CA	-8.54	1.36	1.46
4	3-X	421	LEU	N-CA	-8.54	1.36	1.46
4	4-X	421	LEU	N-CA	-8.54	1.36	1.46
4	5-X	421	LEU	N-CA	-8.54	1.36	1.46
4	6-X	421	LEU	N-CA	-8.54	1.36	1.46
4	7-X	421	LEU	N-CA	-8.54	1.36	1.46
4	8-X	421	LEU	N-CA	-8.54	1.36	1.46
4	1-L	421	LEU	N-CA	-8.52	1.36	1.46
3	1-V	1448	MET	C-N	8.52	1.45	1.33
4	2-L	421	LEU	N-CA	-8.52	1.36	1.46
3	2-V	1448	MET	C-N	8.52	1.45	1.33
4	3-L	421	LEU	N-CA	-8.52	1.36	1.46
3	3-V	1448	MET	C-N	8.52	1.45	1.33
4	4-L	421	LEU	N-CA	-8.52	1.36	1.46
3	4-V	1448	MET	C-N	8.52	1.45	1.33
4	5-L	421	LEU	N-CA	-8.52	1.36	1.46
3	5-V	1448	MET	C-N	8.52	1.45	1.33
4	6-L	421	LEU	N-CA	-8.52	1.36	1.46
3	6-V	1448	MET	C-N	8.52	1.45	1.33
4	7-L	421	LEU	N-CA	-8.52	1.36	1.46
3	7-V	1448	MET	C-N	8.52	1.45	1.33
4	8-L	421	LEU	N-CA	-8.52	1.36	1.46
3	8-V	1448	MET	C-N	8.52	1.45	1.33
6	1-H	467	THR	C-N	8.52	1.46	1.33
6	2-H	467	THR	C-N	8.52	1.46	1.33
6	3-H	467	THR	C-N	8.52	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	467	THR	C-N	8.52	1.46	1.33
6	5-H	467	THR	C-N	8.52	1.46	1.33
6	6-H	467	THR	C-N	8.52	1.46	1.33
6	7-H	467	THR	C-N	8.52	1.46	1.33
6	8-H	467	THR	C-N	8.52	1.46	1.33
3	1-D	1448	MET	C-N	8.51	1.45	1.33
3	1-P	1448	MET	C-N	8.51	1.45	1.33
3	2-D	1448	MET	C-N	8.51	1.45	1.33
3	2-P	1448	MET	C-N	8.51	1.45	1.33
3	3-D	1448	MET	C-N	8.51	1.45	1.33
3	3-P	1448	MET	C-N	8.51	1.45	1.33
3	4-D	1448	MET	C-N	8.51	1.45	1.33
3	4-P	1448	MET	C-N	8.51	1.45	1.33
3	5-D	1448	MET	C-N	8.51	1.45	1.33
3	5-P	1448	MET	C-N	8.51	1.45	1.33
3	6-D	1448	MET	C-N	8.51	1.45	1.33
3	6-P	1448	MET	C-N	8.51	1.45	1.33
3	7-D	1448	MET	C-N	8.51	1.45	1.33
3	7-P	1448	MET	C-N	8.51	1.45	1.33
3	8-D	1448	MET	C-N	8.51	1.45	1.33
3	8-P	1448	MET	C-N	8.51	1.45	1.33
3	1-J	1448	MET	C-N	8.51	1.45	1.33
6	1-Z	467	THR	C-N	8.51	1.46	1.33
3	2-J	1448	MET	C-N	8.51	1.45	1.33
6	2-Z	467	THR	C-N	8.51	1.46	1.33
3	3-J	1448	MET	C-N	8.51	1.45	1.33
6	3-Z	467	THR	C-N	8.51	1.46	1.33
3	4-J	1448	MET	C-N	8.51	1.45	1.33
6	4-Z	467	THR	C-N	8.51	1.46	1.33
3	5-J	1448	MET	C-N	8.51	1.45	1.33
6	5-Z	467	THR	C-N	8.51	1.46	1.33
3	6-J	1448	MET	C-N	8.51	1.45	1.33
6	6-Z	467	THR	C-N	8.51	1.46	1.33
3	7-J	1448	MET	C-N	8.51	1.45	1.33
6	7-Z	467	THR	C-N	8.51	1.46	1.33
3	8-J	1448	MET	C-N	8.51	1.45	1.33
6	8-Z	467	THR	C-N	8.51	1.46	1.33
6	1-N	381	LYS	C-N	8.50	1.44	1.34
6	2-N	381	LYS	C-N	8.50	1.44	1.34
6	3-N	381	LYS	C-N	8.50	1.44	1.34
6	4-N	381	LYS	C-N	8.50	1.44	1.34
6	5-N	381	LYS	C-N	8.50	1.44	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-N	381	LYS	C-N	8.50	1.44	1.34
6	7-N	381	LYS	C-N	8.50	1.44	1.34
6	8-N	381	LYS	C-N	8.50	1.44	1.34
6	1-T	381	LYS	C-N	8.49	1.44	1.34
6	2-T	381	LYS	C-N	8.49	1.44	1.34
6	3-T	381	LYS	C-N	8.49	1.44	1.34
6	4-T	381	LYS	C-N	8.49	1.44	1.34
6	5-T	381	LYS	C-N	8.49	1.44	1.34
6	6-T	381	LYS	C-N	8.49	1.44	1.34
6	7-T	381	LYS	C-N	8.49	1.44	1.34
6	8-T	381	LYS	C-N	8.49	1.44	1.34
6	1-N	467	THR	C-N	8.49	1.46	1.33
6	2-N	467	THR	C-N	8.49	1.46	1.33
6	3-N	467	THR	C-N	8.49	1.46	1.33
6	4-N	467	THR	C-N	8.49	1.46	1.33
6	5-N	467	THR	C-N	8.49	1.46	1.33
6	6-N	467	THR	C-N	8.49	1.46	1.33
6	7-N	467	THR	C-N	8.49	1.46	1.33
6	8-N	467	THR	C-N	8.49	1.46	1.33
4	1-R	401	TYR	CA-C	8.48	1.64	1.52
6	1-Z	381	LYS	C-N	8.48	1.44	1.34
4	2-R	401	TYR	CA-C	8.48	1.64	1.52
6	2-Z	381	LYS	C-N	8.48	1.44	1.34
4	3-R	401	TYR	CA-C	8.48	1.64	1.52
6	3-Z	381	LYS	C-N	8.48	1.44	1.34
4	4-R	401	TYR	CA-C	8.48	1.64	1.52
6	4-Z	381	LYS	C-N	8.48	1.44	1.34
4	5-R	401	TYR	CA-C	8.48	1.64	1.52
6	5-Z	381	LYS	C-N	8.48	1.44	1.34
4	6-R	401	TYR	CA-C	8.48	1.64	1.52
6	6-Z	381	LYS	C-N	8.48	1.44	1.34
4	7-R	401	TYR	CA-C	8.48	1.64	1.52
6	7-Z	381	LYS	C-N	8.48	1.44	1.34
4	8-R	401	TYR	CA-C	8.48	1.64	1.52
6	8-Z	381	LYS	C-N	8.48	1.44	1.34
5	1-G	325	ALA	C-N	8.47	1.45	1.33
5	2-G	325	ALA	C-N	8.47	1.45	1.33
5	3-G	325	ALA	C-N	8.47	1.45	1.33
5	4-G	325	ALA	C-N	8.47	1.45	1.33
5	5-G	325	ALA	C-N	8.47	1.45	1.33
5	6-G	325	ALA	C-N	8.47	1.45	1.33
5	7-G	325	ALA	C-N	8.47	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-G	325	ALA	C-N	8.47	1.45	1.33
4	1-X	401	TYR	CA-C	8.47	1.64	1.52
4	2-X	401	TYR	CA-C	8.47	1.64	1.52
4	3-X	401	TYR	CA-C	8.47	1.64	1.52
4	4-X	401	TYR	CA-C	8.47	1.64	1.52
4	5-X	401	TYR	CA-C	8.47	1.64	1.52
4	6-X	401	TYR	CA-C	8.47	1.64	1.52
4	7-X	401	TYR	CA-C	8.47	1.64	1.52
4	8-X	401	TYR	CA-C	8.47	1.64	1.52
3	1-J	1484	ASP	C-N	8.47	1.45	1.33
4	1-R	405	ALA	CA-CB	8.47	1.67	1.53
3	2-J	1484	ASP	C-N	8.47	1.45	1.33
4	2-R	405	ALA	CA-CB	8.47	1.67	1.53
3	3-J	1484	ASP	C-N	8.47	1.45	1.33
4	3-R	405	ALA	CA-CB	8.47	1.67	1.53
3	4-J	1484	ASP	C-N	8.47	1.45	1.33
4	4-R	405	ALA	CA-CB	8.47	1.67	1.53
3	5-J	1484	ASP	C-N	8.47	1.45	1.33
4	5-R	405	ALA	CA-CB	8.47	1.67	1.53
3	6-J	1484	ASP	C-N	8.47	1.45	1.33
4	6-R	405	ALA	CA-CB	8.47	1.67	1.53
3	7-J	1484	ASP	C-N	8.47	1.45	1.33
4	7-R	405	ALA	CA-CB	8.47	1.67	1.53
3	8-J	1484	ASP	C-N	8.47	1.45	1.33
4	8-R	405	ALA	CA-CB	8.47	1.67	1.53
5	1-M	325	ALA	C-N	8.46	1.45	1.33
5	1-M	343	ALA	C-N	8.47	1.45	1.33
5	2-M	325	ALA	C-N	8.46	1.45	1.33
5	2-M	343	ALA	C-N	8.47	1.45	1.33
5	3-M	325	ALA	C-N	8.46	1.45	1.33
5	3-M	343	ALA	C-N	8.47	1.45	1.33
5	4-M	325	ALA	C-N	8.46	1.45	1.33
5	4-M	343	ALA	C-N	8.47	1.45	1.33
5	5-M	325	ALA	C-N	8.46	1.45	1.33
5	5-M	343	ALA	C-N	8.47	1.45	1.33
5	6-M	325	ALA	C-N	8.46	1.45	1.33
5	6-M	343	ALA	C-N	8.47	1.45	1.33
5	7-M	325	ALA	C-N	8.46	1.45	1.33
5	7-M	343	ALA	C-N	8.47	1.45	1.33
5	8-M	325	ALA	C-N	8.46	1.45	1.33
5	8-M	343	ALA	C-N	8.47	1.45	1.33
6	1-H	381	LYS	C-N	8.46	1.44	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-H	381	LYS	C-N	8.46	1.44	1.34
6	3-H	381	LYS	C-N	8.46	1.44	1.34
6	4-H	381	LYS	C-N	8.46	1.44	1.34
6	5-H	381	LYS	C-N	8.46	1.44	1.34
6	6-H	381	LYS	C-N	8.46	1.44	1.34
6	7-H	381	LYS	C-N	8.46	1.44	1.34
6	8-H	381	LYS	C-N	8.46	1.44	1.34
6	1-H	494	LEU	CA-CB	8.46	1.67	1.53
6	2-H	494	LEU	CA-CB	8.46	1.67	1.53
6	3-H	494	LEU	CA-CB	8.46	1.67	1.53
6	4-H	494	LEU	CA-CB	8.46	1.67	1.53
6	5-H	494	LEU	CA-CB	8.46	1.67	1.53
6	6-H	494	LEU	CA-CB	8.46	1.67	1.53
6	7-H	494	LEU	CA-CB	8.46	1.67	1.53
6	8-H	494	LEU	CA-CB	8.46	1.67	1.53
4	1-F	405	ALA	CA-CB	8.45	1.67	1.53
4	2-F	405	ALA	CA-CB	8.45	1.67	1.53
4	3-F	405	ALA	CA-CB	8.45	1.67	1.53
4	4-F	405	ALA	CA-CB	8.45	1.67	1.53
4	5-F	405	ALA	CA-CB	8.45	1.67	1.53
4	6-F	405	ALA	CA-CB	8.45	1.67	1.53
4	7-F	405	ALA	CA-CB	8.45	1.67	1.53
4	8-F	405	ALA	CA-CB	8.45	1.67	1.53
6	1-H	386	GLN	N-CA	-8.45	1.35	1.46
5	1-S	325	ALA	C-N	8.45	1.45	1.33
6	2-H	386	GLN	N-CA	-8.45	1.35	1.46
5	2-S	325	ALA	C-N	8.45	1.45	1.33
6	3-H	386	GLN	N-CA	-8.45	1.35	1.46
5	3-S	325	ALA	C-N	8.45	1.45	1.33
6	4-H	386	GLN	N-CA	-8.45	1.35	1.46
5	4-S	325	ALA	C-N	8.45	1.45	1.33
6	5-H	386	GLN	N-CA	-8.45	1.35	1.46
5	5-S	325	ALA	C-N	8.45	1.45	1.33
6	6-H	386	GLN	N-CA	-8.45	1.35	1.46
5	6-S	325	ALA	C-N	8.45	1.45	1.33
6	7-H	386	GLN	N-CA	-8.45	1.35	1.46
5	7-S	325	ALA	C-N	8.45	1.45	1.33
6	8-H	386	GLN	N-CA	-8.45	1.35	1.46
5	8-S	325	ALA	C-N	8.45	1.45	1.33
5	1-Y	325	ALA	C-N	8.44	1.45	1.33
5	2-Y	325	ALA	C-N	8.44	1.45	1.33
5	3-Y	325	ALA	C-N	8.44	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-Y	325	ALA	C-N	8.44	1.45	1.33
5	5-Y	325	ALA	C-N	8.44	1.45	1.33
5	6-Y	325	ALA	C-N	8.44	1.45	1.33
5	7-Y	325	ALA	C-N	8.44	1.45	1.33
5	8-Y	325	ALA	C-N	8.44	1.45	1.33
4	1-F	401	TYR	CA-C	8.44	1.64	1.52
3	1-P	1484	ASP	C-N	8.44	1.45	1.33
4	2-F	401	TYR	CA-C	8.44	1.64	1.52
3	2-P	1484	ASP	C-N	8.44	1.45	1.33
4	3-F	401	TYR	CA-C	8.44	1.64	1.52
3	3-P	1484	ASP	C-N	8.44	1.45	1.33
4	4-F	401	TYR	CA-C	8.44	1.64	1.52
3	4-P	1484	ASP	C-N	8.44	1.45	1.33
4	5-F	401	TYR	CA-C	8.44	1.64	1.52
3	5-P	1484	ASP	C-N	8.44	1.45	1.33
4	6-F	401	TYR	CA-C	8.44	1.64	1.52
3	6-P	1484	ASP	C-N	8.44	1.45	1.33
4	7-F	401	TYR	CA-C	8.44	1.64	1.52
3	7-P	1484	ASP	C-N	8.44	1.45	1.33
4	8-F	401	TYR	CA-C	8.44	1.64	1.52
3	8-P	1484	ASP	C-N	8.44	1.45	1.33
5	1-Y	343	ALA	C-N	8.44	1.45	1.33
5	2-Y	343	ALA	C-N	8.44	1.45	1.33
5	3-Y	343	ALA	C-N	8.44	1.45	1.33
5	4-Y	343	ALA	C-N	8.44	1.45	1.33
5	5-Y	343	ALA	C-N	8.44	1.45	1.33
5	6-Y	343	ALA	C-N	8.44	1.45	1.33
5	7-Y	343	ALA	C-N	8.44	1.45	1.33
5	8-Y	343	ALA	C-N	8.44	1.45	1.33
3	1-D	1484	ASP	C-N	8.43	1.45	1.33
4	1-L	449	SER	CA-C	8.43	1.64	1.52
4	1-X	449	SER	CA-C	8.43	1.64	1.52
3	2-D	1484	ASP	C-N	8.43	1.45	1.33
4	2-L	449	SER	CA-C	8.43	1.64	1.52
4	2-X	449	SER	CA-C	8.43	1.64	1.52
3	3-D	1484	ASP	C-N	8.43	1.45	1.33
4	3-L	449	SER	CA-C	8.43	1.64	1.52
4	3-X	449	SER	CA-C	8.43	1.64	1.52
3	4-D	1484	ASP	C-N	8.43	1.45	1.33
4	4-L	449	SER	CA-C	8.43	1.64	1.52
4	4-X	449	SER	CA-C	8.43	1.64	1.52
3	5-D	1484	ASP	C-N	8.43	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-L	449	SER	CA-C	8.43	1.64	1.52
4	5-X	449	SER	CA-C	8.43	1.64	1.52
3	6-D	1484	ASP	C-N	8.43	1.45	1.33
4	6-L	449	SER	CA-C	8.43	1.64	1.52
4	6-X	449	SER	CA-C	8.43	1.64	1.52
3	7-D	1484	ASP	C-N	8.43	1.45	1.33
4	7-L	449	SER	CA-C	8.43	1.64	1.52
4	7-X	449	SER	CA-C	8.43	1.64	1.52
3	8-D	1484	ASP	C-N	8.43	1.45	1.33
4	8-L	449	SER	CA-C	8.43	1.64	1.52
4	8-X	449	SER	CA-C	8.43	1.64	1.52
6	1-N	494	LEU	CA-CB	8.43	1.67	1.53
4	1-X	405	ALA	CA-CB	8.43	1.67	1.53
6	2-N	494	LEU	CA-CB	8.43	1.67	1.53
4	2-X	405	ALA	CA-CB	8.43	1.67	1.53
6	3-N	494	LEU	CA-CB	8.43	1.67	1.53
4	3-X	405	ALA	CA-CB	8.43	1.67	1.53
6	4-N	494	LEU	CA-CB	8.43	1.67	1.53
4	4-X	405	ALA	CA-CB	8.43	1.67	1.53
6	5-N	494	LEU	CA-CB	8.43	1.67	1.53
4	5-X	405	ALA	CA-CB	8.43	1.67	1.53
6	6-N	494	LEU	CA-CB	8.43	1.67	1.53
4	6-X	405	ALA	CA-CB	8.43	1.67	1.53
6	7-N	494	LEU	CA-CB	8.43	1.67	1.53
4	7-X	405	ALA	CA-CB	8.43	1.67	1.53
6	8-N	494	LEU	CA-CB	8.43	1.67	1.53
4	8-X	405	ALA	CA-CB	8.43	1.67	1.53
4	1-F	449	SER	CA-C	8.42	1.64	1.52
4	1-X	403	ILE	C-N	8.42	1.43	1.33
4	2-F	449	SER	CA-C	8.42	1.64	1.52
4	2-X	403	ILE	C-N	8.42	1.43	1.33
4	3-F	449	SER	CA-C	8.42	1.64	1.52
4	3-X	403	ILE	C-N	8.42	1.43	1.33
4	4-F	449	SER	CA-C	8.42	1.64	1.52
4	4-X	403	ILE	C-N	8.42	1.43	1.33
4	5-F	449	SER	CA-C	8.42	1.64	1.52
4	5-X	403	ILE	C-N	8.42	1.43	1.33
4	6-F	449	SER	CA-C	8.42	1.64	1.52
4	6-X	403	ILE	C-N	8.42	1.43	1.33
4	7-F	449	SER	CA-C	8.42	1.64	1.52
4	7-X	403	ILE	C-N	8.42	1.43	1.33
4	8-F	449	SER	CA-C	8.42	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	403	ILE	C-N	8.42	1.43	1.33
4	1-L	405	ALA	CA-CB	8.42	1.67	1.53
6	1-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	2-L	405	ALA	CA-CB	8.42	1.67	1.53
6	2-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	3-L	405	ALA	CA-CB	8.42	1.67	1.53
6	3-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	4-L	405	ALA	CA-CB	8.42	1.67	1.53
6	4-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	5-L	405	ALA	CA-CB	8.42	1.67	1.53
6	5-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	6-L	405	ALA	CA-CB	8.42	1.67	1.53
6	6-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	7-L	405	ALA	CA-CB	8.42	1.67	1.53
6	7-Z	386	GLN	N-CA	-8.42	1.35	1.46
4	8-L	405	ALA	CA-CB	8.42	1.67	1.53
6	8-Z	386	GLN	N-CA	-8.42	1.35	1.46
3	1-V	1484	ASP	C-N	8.41	1.45	1.33
3	2-V	1484	ASP	C-N	8.41	1.45	1.33
3	3-V	1484	ASP	C-N	8.41	1.45	1.33
3	4-V	1484	ASP	C-N	8.41	1.45	1.33
3	5-V	1484	ASP	C-N	8.41	1.45	1.33
3	6-V	1484	ASP	C-N	8.41	1.45	1.33
3	7-V	1484	ASP	C-N	8.41	1.45	1.33
3	8-V	1484	ASP	C-N	8.41	1.45	1.33
4	1-L	401	TYR	CA-C	8.40	1.64	1.52
4	2-L	401	TYR	CA-C	8.40	1.64	1.52
4	3-L	401	TYR	CA-C	8.40	1.64	1.52
4	4-L	401	TYR	CA-C	8.40	1.64	1.52
4	5-L	401	TYR	CA-C	8.40	1.64	1.52
4	6-L	401	TYR	CA-C	8.40	1.64	1.52
4	7-L	401	TYR	CA-C	8.40	1.64	1.52
4	8-L	401	TYR	CA-C	8.40	1.64	1.52
4	1-R	449	SER	CA-C	8.40	1.64	1.52
4	2-R	449	SER	CA-C	8.40	1.64	1.52
4	3-R	449	SER	CA-C	8.40	1.64	1.52
4	4-R	449	SER	CA-C	8.40	1.64	1.52
4	5-R	449	SER	CA-C	8.40	1.64	1.52
4	6-R	449	SER	CA-C	8.40	1.64	1.52
4	7-R	449	SER	CA-C	8.40	1.64	1.52
4	8-R	449	SER	CA-C	8.40	1.64	1.52
5	1-S	343	ALA	C-N	8.40	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-S	343	ALA	C-N	8.40	1.45	1.33
5	3-S	343	ALA	C-N	8.40	1.45	1.33
5	4-S	343	ALA	C-N	8.40	1.45	1.33
5	5-S	343	ALA	C-N	8.40	1.45	1.33
5	6-S	343	ALA	C-N	8.40	1.45	1.33
5	7-S	343	ALA	C-N	8.40	1.45	1.33
5	8-S	343	ALA	C-N	8.40	1.45	1.33
6	1-T	386	GLN	N-CA	-8.39	1.35	1.46
6	1-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	2-T	386	GLN	N-CA	-8.39	1.35	1.46
6	2-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	3-T	386	GLN	N-CA	-8.39	1.35	1.46
6	3-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	4-T	386	GLN	N-CA	-8.39	1.35	1.46
6	4-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	5-T	386	GLN	N-CA	-8.39	1.35	1.46
6	5-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	6-T	386	GLN	N-CA	-8.39	1.35	1.46
6	6-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	7-T	386	GLN	N-CA	-8.39	1.35	1.46
6	7-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	8-T	386	GLN	N-CA	-8.39	1.35	1.46
6	8-Z	494	LEU	CA-CB	8.39	1.67	1.53
6	1-T	494	LEU	CA-CB	8.39	1.67	1.53
6	2-T	494	LEU	CA-CB	8.39	1.67	1.53
6	3-T	494	LEU	CA-CB	8.39	1.67	1.53
6	4-T	494	LEU	CA-CB	8.39	1.67	1.53
6	5-T	494	LEU	CA-CB	8.39	1.67	1.53
6	6-T	494	LEU	CA-CB	8.39	1.67	1.53
6	7-T	494	LEU	CA-CB	8.39	1.67	1.53
6	8-T	494	LEU	CA-CB	8.39	1.67	1.53
5	1-Y	381	THR	N-CA	8.38	1.57	1.46
5	2-Y	381	THR	N-CA	8.38	1.57	1.46
5	3-Y	381	THR	N-CA	8.38	1.57	1.46
5	4-Y	381	THR	N-CA	8.38	1.57	1.46
5	5-Y	381	THR	N-CA	8.38	1.57	1.46
5	6-Y	381	THR	N-CA	8.38	1.57	1.46
5	7-Y	381	THR	N-CA	8.38	1.57	1.46
5	8-Y	381	THR	N-CA	8.38	1.57	1.46
5	1-G	381	THR	N-CA	8.38	1.57	1.46
5	2-G	381	THR	N-CA	8.38	1.57	1.46
5	3-G	381	THR	N-CA	8.38	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-G	381	THR	N-CA	8.38	1.57	1.46
5	5-G	381	THR	N-CA	8.38	1.57	1.46
5	6-G	381	THR	N-CA	8.38	1.57	1.46
5	7-G	381	THR	N-CA	8.38	1.57	1.46
5	8-G	381	THR	N-CA	8.38	1.57	1.46
4	1-F	403	ILE	C-N	8.38	1.43	1.33
3	1-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	2-F	403	ILE	C-N	8.38	1.43	1.33
3	2-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	3-F	403	ILE	C-N	8.38	1.43	1.33
3	3-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	4-F	403	ILE	C-N	8.38	1.43	1.33
3	4-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	5-F	403	ILE	C-N	8.38	1.43	1.33
3	5-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	6-F	403	ILE	C-N	8.38	1.43	1.33
3	6-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	7-F	403	ILE	C-N	8.38	1.43	1.33
3	7-V	1510	GLN	CA-C	-8.38	1.42	1.53
4	8-F	403	ILE	C-N	8.38	1.43	1.33
3	8-V	1510	GLN	CA-C	-8.38	1.42	1.53
5	1-G	343	ALA	C-N	8.38	1.45	1.33
5	2-G	343	ALA	C-N	8.38	1.45	1.33
5	3-G	343	ALA	C-N	8.38	1.45	1.33
5	4-G	343	ALA	C-N	8.38	1.45	1.33
5	5-G	343	ALA	C-N	8.38	1.45	1.33
5	6-G	343	ALA	C-N	8.38	1.45	1.33
5	7-G	343	ALA	C-N	8.38	1.45	1.33
5	8-G	343	ALA	C-N	8.38	1.45	1.33
5	1-S	381	THR	N-CA	8.37	1.57	1.46
4	1-X	408	GLU	CA-CB	8.37	1.67	1.53
5	2-S	381	THR	N-CA	8.37	1.57	1.46
4	2-X	408	GLU	CA-CB	8.37	1.67	1.53
5	3-S	381	THR	N-CA	8.37	1.57	1.46
4	3-X	408	GLU	CA-CB	8.37	1.67	1.53
5	4-S	381	THR	N-CA	8.37	1.57	1.46
4	4-X	408	GLU	CA-CB	8.37	1.67	1.53
5	5-S	381	THR	N-CA	8.37	1.57	1.46
4	5-X	408	GLU	CA-CB	8.37	1.67	1.53
5	6-S	381	THR	N-CA	8.37	1.57	1.46
4	6-X	408	GLU	CA-CB	8.37	1.67	1.53
5	7-S	381	THR	N-CA	8.37	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-X	408	GLU	CA-CB	8.37	1.67	1.53
5	8-S	381	THR	N-CA	8.37	1.57	1.46
4	8-X	408	GLU	CA-CB	8.37	1.67	1.53
5	1-Y	325	ALA	N-CA	8.37	1.56	1.46
5	2-Y	325	ALA	N-CA	8.37	1.56	1.46
5	3-Y	325	ALA	N-CA	8.37	1.56	1.46
5	4-Y	325	ALA	N-CA	8.37	1.56	1.46
5	5-Y	325	ALA	N-CA	8.37	1.56	1.46
5	6-Y	325	ALA	N-CA	8.37	1.56	1.46
5	7-Y	325	ALA	N-CA	8.37	1.56	1.46
5	8-Y	325	ALA	N-CA	8.37	1.56	1.46
6	1-N	386	GLN	N-CA	-8.37	1.35	1.46
6	2-N	386	GLN	N-CA	-8.37	1.35	1.46
6	3-N	386	GLN	N-CA	-8.37	1.35	1.46
6	4-N	386	GLN	N-CA	-8.37	1.35	1.46
6	5-N	386	GLN	N-CA	-8.37	1.35	1.46
6	6-N	386	GLN	N-CA	-8.37	1.35	1.46
6	7-N	386	GLN	N-CA	-8.37	1.35	1.46
6	8-N	386	GLN	N-CA	-8.37	1.35	1.46
4	1-L	408	GLU	CA-CB	8.36	1.67	1.53
4	2-L	408	GLU	CA-CB	8.36	1.67	1.53
4	3-L	408	GLU	CA-CB	8.36	1.67	1.53
4	4-L	408	GLU	CA-CB	8.36	1.67	1.53
4	5-L	408	GLU	CA-CB	8.36	1.67	1.53
4	6-L	408	GLU	CA-CB	8.36	1.67	1.53
4	7-L	408	GLU	CA-CB	8.36	1.67	1.53
4	8-L	408	GLU	CA-CB	8.36	1.67	1.53
4	1-R	403	ILE	C-N	8.36	1.43	1.33
4	2-R	403	ILE	C-N	8.36	1.43	1.33
4	3-R	403	ILE	C-N	8.36	1.43	1.33
4	4-R	403	ILE	C-N	8.36	1.43	1.33
4	5-R	403	ILE	C-N	8.36	1.43	1.33
4	6-R	403	ILE	C-N	8.36	1.43	1.33
4	7-R	403	ILE	C-N	8.36	1.43	1.33
4	8-R	403	ILE	C-N	8.36	1.43	1.33
3	1-V	1550	LEU	CA-C	-8.36	1.42	1.52
3	2-V	1550	LEU	CA-C	-8.36	1.42	1.52
3	3-V	1550	LEU	CA-C	-8.36	1.42	1.52
3	4-V	1550	LEU	CA-C	-8.36	1.42	1.52
3	5-V	1550	LEU	CA-C	-8.36	1.42	1.52
3	6-V	1550	LEU	CA-C	-8.36	1.42	1.52
3	7-V	1550	LEU	CA-C	-8.36	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-V	1550	LEU	CA-C	-8.36	1.42	1.52
4	1-L	403	ILE	C-N	8.35	1.43	1.33
5	1-M	381	THR	N-CA	8.35	1.57	1.46
4	2-L	403	ILE	C-N	8.35	1.43	1.33
5	2-M	381	THR	N-CA	8.35	1.57	1.46
4	3-L	403	ILE	C-N	8.35	1.43	1.33
5	3-M	381	THR	N-CA	8.35	1.57	1.46
4	4-L	403	ILE	C-N	8.35	1.43	1.33
5	4-M	381	THR	N-CA	8.35	1.57	1.46
4	5-L	403	ILE	C-N	8.35	1.43	1.33
5	5-M	381	THR	N-CA	8.35	1.57	1.46
4	6-L	403	ILE	C-N	8.35	1.43	1.33
5	6-M	381	THR	N-CA	8.35	1.57	1.46
4	7-L	403	ILE	C-N	8.35	1.43	1.33
5	7-M	381	THR	N-CA	8.35	1.57	1.46
4	8-L	403	ILE	C-N	8.35	1.43	1.33
5	8-M	381	THR	N-CA	8.35	1.57	1.46
5	1-M	325	ALA	N-CA	8.35	1.56	1.46
5	2-M	325	ALA	N-CA	8.35	1.56	1.46
5	3-M	325	ALA	N-CA	8.35	1.56	1.46
5	4-M	325	ALA	N-CA	8.35	1.56	1.46
5	5-M	325	ALA	N-CA	8.35	1.56	1.46
5	6-M	325	ALA	N-CA	8.35	1.56	1.46
5	7-M	325	ALA	N-CA	8.35	1.56	1.46
5	8-M	325	ALA	N-CA	8.35	1.56	1.46
4	1-R	408	GLU	CA-CB	8.35	1.67	1.53
4	2-R	408	GLU	CA-CB	8.35	1.67	1.53
4	3-R	408	GLU	CA-CB	8.35	1.67	1.53
4	4-R	408	GLU	CA-CB	8.35	1.67	1.53
4	5-R	408	GLU	CA-CB	8.35	1.67	1.53
4	6-R	408	GLU	CA-CB	8.35	1.67	1.53
4	7-R	408	GLU	CA-CB	8.35	1.67	1.53
4	8-R	408	GLU	CA-CB	8.35	1.67	1.53
4	1-R	293	ILE	CA-C	-8.34	1.42	1.52
4	2-R	293	ILE	CA-C	-8.34	1.42	1.52
4	3-R	293	ILE	CA-C	-8.34	1.42	1.52
4	4-R	293	ILE	CA-C	-8.34	1.42	1.52
4	5-R	293	ILE	CA-C	-8.34	1.42	1.52
4	6-R	293	ILE	CA-C	-8.34	1.42	1.52
4	7-R	293	ILE	CA-C	-8.34	1.42	1.52
4	8-R	293	ILE	CA-C	-8.34	1.42	1.52
3	1-D	1550	LEU	CA-C	-8.34	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-D	1550	LEU	CA-C	-8.34	1.42	1.52
3	3-D	1550	LEU	CA-C	-8.34	1.42	1.52
3	4-D	1550	LEU	CA-C	-8.34	1.42	1.52
3	5-D	1550	LEU	CA-C	-8.34	1.42	1.52
3	6-D	1550	LEU	CA-C	-8.34	1.42	1.52
3	7-D	1550	LEU	CA-C	-8.34	1.42	1.52
3	8-D	1550	LEU	CA-C	-8.34	1.42	1.52
5	1-S	372	ALA	N-CA	-8.33	1.36	1.46
5	2-S	372	ALA	N-CA	-8.33	1.36	1.46
5	3-S	372	ALA	N-CA	-8.33	1.36	1.46
5	4-S	372	ALA	N-CA	-8.33	1.36	1.46
5	5-S	372	ALA	N-CA	-8.33	1.36	1.46
5	6-S	372	ALA	N-CA	-8.33	1.36	1.46
5	7-S	372	ALA	N-CA	-8.33	1.36	1.46
5	8-S	372	ALA	N-CA	-8.33	1.36	1.46
4	1-X	293	ILE	CA-C	-8.33	1.42	1.52
4	2-X	293	ILE	CA-C	-8.33	1.42	1.52
4	3-X	293	ILE	CA-C	-8.33	1.42	1.52
4	4-X	293	ILE	CA-C	-8.33	1.42	1.52
4	5-X	293	ILE	CA-C	-8.33	1.42	1.52
4	6-X	293	ILE	CA-C	-8.33	1.42	1.52
4	7-X	293	ILE	CA-C	-8.33	1.42	1.52
4	8-X	293	ILE	CA-C	-8.33	1.42	1.52
4	1-F	408	GLU	CA-CB	8.32	1.67	1.53
4	1-L	482	LYS	CA-C	8.32	1.63	1.52
4	2-F	408	GLU	CA-CB	8.32	1.67	1.53
4	2-L	482	LYS	CA-C	8.32	1.63	1.52
4	3-F	408	GLU	CA-CB	8.32	1.67	1.53
4	3-L	482	LYS	CA-C	8.32	1.63	1.52
4	4-F	408	GLU	CA-CB	8.32	1.67	1.53
4	4-L	482	LYS	CA-C	8.32	1.63	1.52
4	5-F	408	GLU	CA-CB	8.32	1.67	1.53
4	5-L	482	LYS	CA-C	8.32	1.63	1.52
4	6-F	408	GLU	CA-CB	8.32	1.67	1.53
4	6-L	482	LYS	CA-C	8.32	1.63	1.52
4	7-F	408	GLU	CA-CB	8.32	1.67	1.53
4	7-L	482	LYS	CA-C	8.32	1.63	1.52
4	8-F	408	GLU	CA-CB	8.32	1.67	1.53
4	8-L	482	LYS	CA-C	8.32	1.63	1.52
5	1-G	361	ARG	CA-C	8.32	1.63	1.52
5	5-G	361	ARG	CA-C	8.32	1.63	1.52
5	1-G	372	ALA	N-CA	-8.32	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	2-G	361	ARG	CA-C	8.32	1.63	1.52
5	2-G	372	ALA	N-CA	-8.32	1.36	1.46
3	2-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	3-G	361	ARG	CA-C	8.32	1.63	1.52
5	3-G	372	ALA	N-CA	-8.32	1.36	1.46
3	3-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	4-G	361	ARG	CA-C	8.32	1.63	1.52
5	4-G	372	ALA	N-CA	-8.32	1.36	1.46
3	4-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	5-G	372	ALA	N-CA	-8.32	1.36	1.46
3	5-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	6-G	361	ARG	CA-C	8.32	1.63	1.52
5	6-G	372	ALA	N-CA	-8.32	1.36	1.46
3	6-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	7-G	361	ARG	CA-C	8.32	1.63	1.52
5	7-G	372	ALA	N-CA	-8.32	1.36	1.46
3	7-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	8-G	361	ARG	CA-C	8.32	1.63	1.52
5	8-G	372	ALA	N-CA	-8.32	1.36	1.46
3	8-P	1550	LEU	CA-C	-8.32	1.42	1.52
5	1-M	361	ARG	CA-C	8.31	1.63	1.52
5	1-S	371	LEU	CA-C	-8.31	1.42	1.52
4	1-X	426	GLN	N-CA	-8.31	1.36	1.46
5	1-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	2-M	361	ARG	CA-C	8.31	1.63	1.52
5	2-S	371	LEU	CA-C	-8.31	1.42	1.52
4	2-X	426	GLN	N-CA	-8.31	1.36	1.46
5	2-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	3-M	361	ARG	CA-C	8.31	1.63	1.52
5	3-S	371	LEU	CA-C	-8.31	1.42	1.52
4	3-X	426	GLN	N-CA	-8.31	1.36	1.46
5	3-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	4-M	361	ARG	CA-C	8.31	1.63	1.52
5	4-S	371	LEU	CA-C	-8.31	1.42	1.52
4	4-X	426	GLN	N-CA	-8.31	1.36	1.46
5	4-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	5-M	361	ARG	CA-C	8.31	1.63	1.52
5	5-S	371	LEU	CA-C	-8.31	1.42	1.52
4	5-X	426	GLN	N-CA	-8.31	1.36	1.46
5	5-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	6-M	361	ARG	CA-C	8.31	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-S	371	LEU	CA-C	-8.31	1.42	1.52
4	6-X	426	GLN	N-CA	-8.31	1.36	1.46
5	6-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	7-M	361	ARG	CA-C	8.31	1.63	1.52
5	7-S	371	LEU	CA-C	-8.31	1.42	1.52
4	7-X	426	GLN	N-CA	-8.31	1.36	1.46
5	7-Y	372	ALA	N-CA	-8.31	1.36	1.46
5	8-M	361	ARG	CA-C	8.31	1.63	1.52
5	8-S	371	LEU	CA-C	-8.31	1.42	1.52
4	8-X	426	GLN	N-CA	-8.31	1.36	1.46
5	8-Y	372	ALA	N-CA	-8.31	1.36	1.46
4	1-F	426	GLN	N-CA	-8.31	1.36	1.46
5	1-M	372	ALA	N-CA	-8.31	1.36	1.46
4	2-F	426	GLN	N-CA	-8.31	1.36	1.46
5	2-M	372	ALA	N-CA	-8.31	1.36	1.46
4	3-F	426	GLN	N-CA	-8.31	1.36	1.46
5	3-M	372	ALA	N-CA	-8.31	1.36	1.46
4	4-F	426	GLN	N-CA	-8.31	1.36	1.46
5	4-M	372	ALA	N-CA	-8.31	1.36	1.46
4	5-F	426	GLN	N-CA	-8.31	1.36	1.46
5	5-M	372	ALA	N-CA	-8.31	1.36	1.46
4	6-F	426	GLN	N-CA	-8.31	1.36	1.46
5	6-M	372	ALA	N-CA	-8.31	1.36	1.46
4	7-F	426	GLN	N-CA	-8.31	1.36	1.46
5	7-M	372	ALA	N-CA	-8.31	1.36	1.46
4	8-F	426	GLN	N-CA	-8.31	1.36	1.46
5	8-M	372	ALA	N-CA	-8.31	1.36	1.46
3	1-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	2-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	3-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	4-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	5-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	6-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	7-J	1550	LEU	CA-C	-8.31	1.42	1.52
3	8-J	1550	LEU	CA-C	-8.31	1.42	1.52
5	1-Y	361	ARG	CA-C	8.30	1.63	1.52
5	2-Y	361	ARG	CA-C	8.30	1.63	1.52
5	3-Y	361	ARG	CA-C	8.30	1.63	1.52
5	4-Y	361	ARG	CA-C	8.30	1.63	1.52
5	5-Y	361	ARG	CA-C	8.30	1.63	1.52
5	6-Y	361	ARG	CA-C	8.30	1.63	1.52
5	7-Y	361	ARG	CA-C	8.30	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-Y	361	ARG	CA-C	8.30	1.63	1.52
4	1-F	482	LYS	CA-C	8.30	1.63	1.52
4	2-F	482	LYS	CA-C	8.30	1.63	1.52
4	3-F	482	LYS	CA-C	8.30	1.63	1.52
4	4-F	482	LYS	CA-C	8.30	1.63	1.52
4	5-F	482	LYS	CA-C	8.30	1.63	1.52
4	6-F	482	LYS	CA-C	8.30	1.63	1.52
4	7-F	482	LYS	CA-C	8.30	1.63	1.52
4	8-F	482	LYS	CA-C	8.30	1.63	1.52
5	1-G	325	ALA	N-CA	8.29	1.56	1.46
4	1-X	482	LYS	CA-C	8.29	1.63	1.52
5	2-G	325	ALA	N-CA	8.29	1.56	1.46
4	2-X	482	LYS	CA-C	8.29	1.63	1.52
5	3-G	325	ALA	N-CA	8.29	1.56	1.46
4	3-X	482	LYS	CA-C	8.29	1.63	1.52
5	4-G	325	ALA	N-CA	8.29	1.56	1.46
4	4-X	482	LYS	CA-C	8.29	1.63	1.52
5	5-G	325	ALA	N-CA	8.29	1.56	1.46
4	5-X	482	LYS	CA-C	8.29	1.63	1.52
5	6-G	325	ALA	N-CA	8.29	1.56	1.46
4	6-X	482	LYS	CA-C	8.29	1.63	1.52
5	7-G	325	ALA	N-CA	8.29	1.56	1.46
4	7-X	482	LYS	CA-C	8.29	1.63	1.52
5	8-G	325	ALA	N-CA	8.29	1.56	1.46
4	8-X	482	LYS	CA-C	8.29	1.63	1.52
4	1-R	490	LEU	CA-C	8.29	1.64	1.52
4	2-R	490	LEU	CA-C	8.29	1.64	1.52
4	3-R	490	LEU	CA-C	8.29	1.64	1.52
4	4-R	490	LEU	CA-C	8.29	1.64	1.52
4	5-R	490	LEU	CA-C	8.29	1.64	1.52
4	6-R	490	LEU	CA-C	8.29	1.64	1.52
4	7-R	490	LEU	CA-C	8.29	1.64	1.52
4	8-R	490	LEU	CA-C	8.29	1.64	1.52
4	1-F	293	ILE	CA-C	-8.29	1.42	1.52
4	2-F	293	ILE	CA-C	-8.29	1.42	1.52
4	3-F	293	ILE	CA-C	-8.29	1.42	1.52
4	4-F	293	ILE	CA-C	-8.29	1.42	1.52
4	5-F	293	ILE	CA-C	-8.29	1.42	1.52
4	6-F	293	ILE	CA-C	-8.29	1.42	1.52
4	7-F	293	ILE	CA-C	-8.29	1.42	1.52
4	8-F	293	ILE	CA-C	-8.29	1.42	1.52
4	1-L	426	GLN	N-CA	-8.28	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	2-L	426	GLN	N-CA	-8.28	1.36	1.46
5	2-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	3-L	426	GLN	N-CA	-8.28	1.36	1.46
5	3-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	4-L	426	GLN	N-CA	-8.28	1.36	1.46
5	4-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	5-L	426	GLN	N-CA	-8.28	1.36	1.46
5	5-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	6-L	426	GLN	N-CA	-8.28	1.36	1.46
5	6-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	7-L	426	GLN	N-CA	-8.28	1.36	1.46
5	7-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	8-L	426	GLN	N-CA	-8.28	1.36	1.46
5	8-Y	371	LEU	CA-C	-8.28	1.42	1.52
4	1-R	482	LYS	CA-C	8.27	1.63	1.52
4	2-R	482	LYS	CA-C	8.27	1.63	1.52
4	3-R	482	LYS	CA-C	8.27	1.63	1.52
4	4-R	482	LYS	CA-C	8.27	1.63	1.52
4	5-R	482	LYS	CA-C	8.27	1.63	1.52
4	6-R	482	LYS	CA-C	8.27	1.63	1.52
4	7-R	482	LYS	CA-C	8.27	1.63	1.52
4	8-R	482	LYS	CA-C	8.27	1.63	1.52
5	1-M	371	LEU	CA-C	-8.27	1.42	1.52
5	2-M	371	LEU	CA-C	-8.27	1.42	1.52
5	3-M	371	LEU	CA-C	-8.27	1.42	1.52
5	4-M	371	LEU	CA-C	-8.27	1.42	1.52
5	5-M	371	LEU	CA-C	-8.27	1.42	1.52
5	6-M	371	LEU	CA-C	-8.27	1.42	1.52
5	7-M	371	LEU	CA-C	-8.27	1.42	1.52
5	8-M	371	LEU	CA-C	-8.27	1.42	1.52
5	1-G	401	ALA	CA-C	-8.27	1.42	1.52
5	1-S	325	ALA	N-CA	8.27	1.56	1.46
5	2-G	401	ALA	CA-C	-8.27	1.42	1.52
5	2-S	325	ALA	N-CA	8.27	1.56	1.46
5	3-G	401	ALA	CA-C	-8.27	1.42	1.52
5	3-S	325	ALA	N-CA	8.27	1.56	1.46
5	4-G	401	ALA	CA-C	-8.27	1.42	1.52
5	4-S	325	ALA	N-CA	8.27	1.56	1.46
5	5-G	401	ALA	CA-C	-8.27	1.42	1.52
5	5-S	325	ALA	N-CA	8.27	1.56	1.46
5	6-G	401	ALA	CA-C	-8.27	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-S	325	ALA	N-CA	8.27	1.56	1.46
5	7-G	401	ALA	CA-C	-8.27	1.42	1.52
5	7-S	325	ALA	N-CA	8.27	1.56	1.46
5	8-G	401	ALA	CA-C	-8.27	1.42	1.52
5	8-S	325	ALA	N-CA	8.27	1.56	1.46
4	1-L	293	ILE	CA-C	-8.26	1.42	1.52
4	1-R	426	GLN	N-CA	-8.26	1.36	1.46
4	2-L	293	ILE	CA-C	-8.26	1.42	1.52
4	2-R	426	GLN	N-CA	-8.26	1.36	1.46
4	3-L	293	ILE	CA-C	-8.26	1.42	1.52
4	3-R	426	GLN	N-CA	-8.26	1.36	1.46
4	4-L	293	ILE	CA-C	-8.26	1.42	1.52
4	4-R	426	GLN	N-CA	-8.26	1.36	1.46
4	5-L	293	ILE	CA-C	-8.26	1.42	1.52
4	5-R	426	GLN	N-CA	-8.26	1.36	1.46
4	6-L	293	ILE	CA-C	-8.26	1.42	1.52
4	6-R	426	GLN	N-CA	-8.26	1.36	1.46
4	7-L	293	ILE	CA-C	-8.26	1.42	1.52
4	7-R	426	GLN	N-CA	-8.26	1.36	1.46
4	8-L	293	ILE	CA-C	-8.26	1.42	1.52
4	8-R	426	GLN	N-CA	-8.26	1.36	1.46
5	1-M	401	ALA	CA-C	-8.26	1.42	1.52
5	2-M	401	ALA	CA-C	-8.26	1.42	1.52
5	3-M	401	ALA	CA-C	-8.26	1.42	1.52
5	4-M	401	ALA	CA-C	-8.26	1.42	1.52
5	5-M	401	ALA	CA-C	-8.26	1.42	1.52
5	6-M	401	ALA	CA-C	-8.26	1.42	1.52
5	7-M	401	ALA	CA-C	-8.26	1.42	1.52
5	8-M	401	ALA	CA-C	-8.26	1.42	1.52
4	1-X	490	LEU	CA-C	8.25	1.63	1.52
4	2-X	490	LEU	CA-C	8.25	1.63	1.52
4	3-X	490	LEU	CA-C	8.25	1.63	1.52
4	4-X	490	LEU	CA-C	8.25	1.63	1.52
4	5-X	490	LEU	CA-C	8.25	1.63	1.52
4	6-X	490	LEU	CA-C	8.25	1.63	1.52
4	7-X	490	LEU	CA-C	8.25	1.63	1.52
4	8-X	490	LEU	CA-C	8.25	1.63	1.52
4	1-L	490	LEU	CA-C	8.25	1.63	1.52
4	2-L	490	LEU	CA-C	8.25	1.63	1.52
4	3-L	490	LEU	CA-C	8.25	1.63	1.52
4	4-L	490	LEU	CA-C	8.25	1.63	1.52
4	5-L	490	LEU	CA-C	8.25	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	490	LEU	CA-C	8.25	1.63	1.52
4	7-L	490	LEU	CA-C	8.25	1.63	1.52
4	8-L	490	LEU	CA-C	8.25	1.63	1.52
4	1-X	463	ILE	CA-CB	8.24	1.65	1.54
4	2-X	463	ILE	CA-CB	8.24	1.65	1.54
4	3-X	463	ILE	CA-CB	8.24	1.65	1.54
4	4-X	463	ILE	CA-CB	8.24	1.65	1.54
4	5-X	463	ILE	CA-CB	8.24	1.65	1.54
4	6-X	463	ILE	CA-CB	8.24	1.65	1.54
4	7-X	463	ILE	CA-CB	8.24	1.65	1.54
4	8-X	463	ILE	CA-CB	8.24	1.65	1.54
5	1-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	2-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	3-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	4-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	5-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	6-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	7-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	8-Y	401	ALA	CA-C	-8.24	1.42	1.52
5	1-S	401	ALA	CA-C	-8.23	1.42	1.52
5	2-S	401	ALA	CA-C	-8.23	1.42	1.52
5	3-S	401	ALA	CA-C	-8.23	1.42	1.52
5	4-S	401	ALA	CA-C	-8.23	1.42	1.52
5	5-S	401	ALA	CA-C	-8.23	1.42	1.52
5	6-S	401	ALA	CA-C	-8.23	1.42	1.52
5	7-S	401	ALA	CA-C	-8.23	1.42	1.52
5	8-S	401	ALA	CA-C	-8.23	1.42	1.52
5	1-G	371	LEU	CA-C	-8.23	1.42	1.52
5	2-G	371	LEU	CA-C	-8.23	1.42	1.52
5	3-G	371	LEU	CA-C	-8.23	1.42	1.52
5	4-G	371	LEU	CA-C	-8.23	1.42	1.52
5	5-G	371	LEU	CA-C	-8.23	1.42	1.52
5	6-G	371	LEU	CA-C	-8.23	1.42	1.52
5	7-G	371	LEU	CA-C	-8.23	1.42	1.52
5	8-G	371	LEU	CA-C	-8.23	1.42	1.52
4	1-F	490	LEU	CA-C	8.22	1.63	1.52
4	2-F	490	LEU	CA-C	8.22	1.63	1.52
4	3-F	490	LEU	CA-C	8.22	1.63	1.52
4	4-F	490	LEU	CA-C	8.22	1.63	1.52
4	5-F	490	LEU	CA-C	8.22	1.63	1.52
4	6-F	490	LEU	CA-C	8.22	1.63	1.52
4	7-F	490	LEU	CA-C	8.22	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	490	LEU	CA-C	8.22	1.63	1.52
3	1-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	2-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	3-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	4-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	5-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	6-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	7-P	1548	LYS	CA-C	-8.22	1.42	1.52
3	8-P	1548	LYS	CA-C	-8.22	1.42	1.52
4	1-L	463	ILE	CA-CB	8.21	1.65	1.54
4	2-L	463	ILE	CA-CB	8.21	1.65	1.54
4	3-L	463	ILE	CA-CB	8.21	1.65	1.54
4	4-L	463	ILE	CA-CB	8.21	1.65	1.54
4	5-L	463	ILE	CA-CB	8.21	1.65	1.54
4	6-L	463	ILE	CA-CB	8.21	1.65	1.54
4	7-L	463	ILE	CA-CB	8.21	1.65	1.54
4	8-L	463	ILE	CA-CB	8.21	1.65	1.54
3	1-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	2-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	3-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	4-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	5-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	6-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	7-V	1548	LYS	CA-C	-8.21	1.42	1.52
3	8-V	1548	LYS	CA-C	-8.21	1.42	1.52
5	1-S	361	ARG	CA-C	8.21	1.63	1.52
5	2-S	361	ARG	CA-C	8.21	1.63	1.52
5	3-S	361	ARG	CA-C	8.21	1.63	1.52
5	4-S	361	ARG	CA-C	8.21	1.63	1.52
5	5-S	361	ARG	CA-C	8.21	1.63	1.52
5	6-S	361	ARG	CA-C	8.21	1.63	1.52
5	7-S	361	ARG	CA-C	8.21	1.63	1.52
5	8-S	361	ARG	CA-C	8.21	1.63	1.52
3	1-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	1-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	2-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	2-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	3-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	3-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	4-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	4-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	5-D	1518	ASN	CA-C	-8.20	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	5-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	6-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	6-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	7-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	7-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	8-D	1518	ASN	CA-C	-8.20	1.42	1.52
3	8-J	1518	ASN	CA-C	-8.20	1.42	1.52
3	1-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	2-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	3-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	4-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	5-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	6-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	7-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	8-D	1548	LYS	CA-C	-8.20	1.42	1.52
3	1-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	2-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	3-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	4-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	5-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	6-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	7-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	8-J	1548	LYS	CA-C	-8.19	1.42	1.52
3	1-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	2-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	3-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	4-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	5-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	6-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	7-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	8-V	1518	ASN	CA-C	-8.18	1.42	1.52
3	1-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	2-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	3-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	4-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	5-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	6-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	7-P	1518	ASN	CA-C	-8.18	1.42	1.52
3	8-P	1518	ASN	CA-C	-8.18	1.42	1.52
4	1-F	463	ILE	CA-CB	8.18	1.65	1.54
4	2-F	463	ILE	CA-CB	8.18	1.65	1.54
4	3-F	463	ILE	CA-CB	8.18	1.65	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	463	ILE	CA-CB	8.18	1.65	1.54
4	5-F	463	ILE	CA-CB	8.18	1.65	1.54
4	6-F	463	ILE	CA-CB	8.18	1.65	1.54
4	7-F	463	ILE	CA-CB	8.18	1.65	1.54
4	8-F	463	ILE	CA-CB	8.18	1.65	1.54
4	1-L	429	GLY	N-CA	-8.16	1.35	1.45
4	1-R	463	ILE	CA-CB	8.16	1.65	1.54
4	2-L	429	GLY	N-CA	-8.16	1.35	1.45
4	2-R	463	ILE	CA-CB	8.16	1.65	1.54
4	3-L	429	GLY	N-CA	-8.16	1.35	1.45
4	3-R	463	ILE	CA-CB	8.16	1.65	1.54
4	4-L	429	GLY	N-CA	-8.16	1.35	1.45
4	4-R	463	ILE	CA-CB	8.16	1.65	1.54
4	5-L	429	GLY	N-CA	-8.16	1.35	1.45
4	5-R	463	ILE	CA-CB	8.16	1.65	1.54
4	6-L	429	GLY	N-CA	-8.16	1.35	1.45
4	6-R	463	ILE	CA-CB	8.16	1.65	1.54
4	7-L	429	GLY	N-CA	-8.16	1.35	1.45
4	7-R	463	ILE	CA-CB	8.16	1.65	1.54
4	8-L	429	GLY	N-CA	-8.16	1.35	1.45
4	8-R	463	ILE	CA-CB	8.16	1.65	1.54
6	1-N	403	LEU	N-CA	8.16	1.56	1.46
5	1-S	398	ALA	N-CA	8.16	1.56	1.46
6	2-N	403	LEU	N-CA	8.16	1.56	1.46
5	2-S	398	ALA	N-CA	8.16	1.56	1.46
6	3-N	403	LEU	N-CA	8.16	1.56	1.46
5	3-S	398	ALA	N-CA	8.16	1.56	1.46
6	4-N	403	LEU	N-CA	8.16	1.56	1.46
5	4-S	398	ALA	N-CA	8.16	1.56	1.46
6	5-N	403	LEU	N-CA	8.16	1.56	1.46
5	5-S	398	ALA	N-CA	8.16	1.56	1.46
6	6-N	403	LEU	N-CA	8.16	1.56	1.46
5	6-S	398	ALA	N-CA	8.16	1.56	1.46
6	7-N	403	LEU	N-CA	8.16	1.56	1.46
5	7-S	398	ALA	N-CA	8.16	1.56	1.46
6	8-N	403	LEU	N-CA	8.16	1.56	1.46
5	8-S	398	ALA	N-CA	8.16	1.56	1.46
6	1-T	467	THR	N-CA	8.14	1.56	1.46
6	2-T	467	THR	N-CA	8.14	1.56	1.46
6	3-T	467	THR	N-CA	8.14	1.56	1.46
6	4-T	467	THR	N-CA	8.14	1.56	1.46
6	5-T	467	THR	N-CA	8.14	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-T	467	THR	N-CA	8.14	1.56	1.46
6	7-T	467	THR	N-CA	8.14	1.56	1.46
6	8-T	467	THR	N-CA	8.14	1.56	1.46
6	1-H	467	THR	N-CA	8.14	1.56	1.46
6	2-H	467	THR	N-CA	8.14	1.56	1.46
6	3-H	467	THR	N-CA	8.14	1.56	1.46
6	4-H	467	THR	N-CA	8.14	1.56	1.46
6	5-H	467	THR	N-CA	8.14	1.56	1.46
6	6-H	467	THR	N-CA	8.14	1.56	1.46
6	7-H	467	THR	N-CA	8.14	1.56	1.46
6	8-H	467	THR	N-CA	8.14	1.56	1.46
6	1-N	467	THR	N-CA	8.13	1.56	1.46
4	1-X	429	GLY	N-CA	-8.13	1.35	1.45
6	2-N	467	THR	N-CA	8.13	1.56	1.46
4	2-X	429	GLY	N-CA	-8.13	1.35	1.45
6	3-N	467	THR	N-CA	8.13	1.56	1.46
4	3-X	429	GLY	N-CA	-8.13	1.35	1.45
6	4-N	467	THR	N-CA	8.13	1.56	1.46
4	4-X	429	GLY	N-CA	-8.13	1.35	1.45
6	5-N	467	THR	N-CA	8.13	1.56	1.46
4	5-X	429	GLY	N-CA	-8.13	1.35	1.45
6	6-N	467	THR	N-CA	8.13	1.56	1.46
4	6-X	429	GLY	N-CA	-8.13	1.35	1.45
6	7-N	467	THR	N-CA	8.13	1.56	1.46
4	7-X	429	GLY	N-CA	-8.13	1.35	1.45
6	8-N	467	THR	N-CA	8.13	1.56	1.46
4	8-X	429	GLY	N-CA	-8.13	1.35	1.45
5	1-G	398	ALA	N-CA	8.12	1.56	1.46
5	2-G	398	ALA	N-CA	8.12	1.56	1.46
5	3-G	398	ALA	N-CA	8.12	1.56	1.46
5	4-G	398	ALA	N-CA	8.12	1.56	1.46
5	5-G	398	ALA	N-CA	8.12	1.56	1.46
5	6-G	398	ALA	N-CA	8.12	1.56	1.46
5	7-G	398	ALA	N-CA	8.12	1.56	1.46
5	8-G	398	ALA	N-CA	8.12	1.56	1.46
4	1-R	132	ASP	CA-CB	8.12	1.66	1.53
4	2-R	132	ASP	CA-CB	8.12	1.66	1.53
4	3-R	132	ASP	CA-CB	8.12	1.66	1.53
4	4-R	132	ASP	CA-CB	8.12	1.66	1.53
4	5-R	132	ASP	CA-CB	8.12	1.66	1.53
4	6-R	132	ASP	CA-CB	8.12	1.66	1.53
4	7-R	132	ASP	CA-CB	8.12	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	132	ASP	CA-CB	8.12	1.66	1.53
6	1-T	403	LEU	N-CA	8.12	1.56	1.46
6	2-T	403	LEU	N-CA	8.12	1.56	1.46
6	3-T	403	LEU	N-CA	8.12	1.56	1.46
6	4-T	403	LEU	N-CA	8.12	1.56	1.46
6	5-T	403	LEU	N-CA	8.12	1.56	1.46
6	6-T	403	LEU	N-CA	8.12	1.56	1.46
6	7-T	403	LEU	N-CA	8.12	1.56	1.46
6	8-T	403	LEU	N-CA	8.12	1.56	1.46
5	1-Y	398	ALA	N-CA	8.12	1.56	1.46
5	2-Y	398	ALA	N-CA	8.12	1.56	1.46
5	3-Y	398	ALA	N-CA	8.12	1.56	1.46
5	4-Y	398	ALA	N-CA	8.12	1.56	1.46
5	5-Y	398	ALA	N-CA	8.12	1.56	1.46
5	6-Y	398	ALA	N-CA	8.12	1.56	1.46
5	7-Y	398	ALA	N-CA	8.12	1.56	1.46
5	8-Y	398	ALA	N-CA	8.12	1.56	1.46
6	1-H	403	LEU	N-CA	8.11	1.56	1.46
6	2-H	403	LEU	N-CA	8.11	1.56	1.46
6	3-H	403	LEU	N-CA	8.11	1.56	1.46
6	4-H	403	LEU	N-CA	8.11	1.56	1.46
6	5-H	403	LEU	N-CA	8.11	1.56	1.46
6	6-H	403	LEU	N-CA	8.11	1.56	1.46
6	7-H	403	LEU	N-CA	8.11	1.56	1.46
6	8-H	403	LEU	N-CA	8.11	1.56	1.46
6	1-Z	467	THR	N-CA	8.11	1.56	1.46
6	2-Z	467	THR	N-CA	8.11	1.56	1.46
6	3-Z	467	THR	N-CA	8.11	1.56	1.46
6	4-Z	467	THR	N-CA	8.11	1.56	1.46
6	5-Z	467	THR	N-CA	8.11	1.56	1.46
6	6-Z	467	THR	N-CA	8.11	1.56	1.46
6	7-Z	467	THR	N-CA	8.11	1.56	1.46
6	8-Z	467	THR	N-CA	8.11	1.56	1.46
4	1-R	320	GLU	CA-C	-8.11	1.41	1.52
4	2-R	320	GLU	CA-C	-8.11	1.41	1.52
4	3-R	320	GLU	CA-C	-8.11	1.41	1.52
4	4-R	320	GLU	CA-C	-8.11	1.41	1.52
4	5-R	320	GLU	CA-C	-8.11	1.41	1.52
4	6-R	320	GLU	CA-C	-8.11	1.41	1.52
4	7-R	320	GLU	CA-C	-8.11	1.41	1.52
4	8-R	320	GLU	CA-C	-8.11	1.41	1.52
4	1-R	328	VAL	CA-CB	-8.11	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	3-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	4-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	5-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	6-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	7-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	8-R	328	VAL	CA-CB	-8.11	1.43	1.53
4	1-F	320	GLU	CA-C	-8.10	1.41	1.52
4	1-F	483	ASP	C-N	8.10	1.44	1.33
4	2-F	320	GLU	CA-C	-8.10	1.41	1.52
4	2-F	483	ASP	C-N	8.10	1.44	1.33
4	3-F	320	GLU	CA-C	-8.10	1.41	1.52
4	3-F	483	ASP	C-N	8.10	1.44	1.33
4	4-F	320	GLU	CA-C	-8.10	1.41	1.52
4	4-F	483	ASP	C-N	8.10	1.44	1.33
4	5-F	320	GLU	CA-C	-8.10	1.41	1.52
4	5-F	483	ASP	C-N	8.10	1.44	1.33
4	6-F	320	GLU	CA-C	-8.10	1.41	1.52
4	6-F	483	ASP	C-N	8.10	1.44	1.33
4	7-F	320	GLU	CA-C	-8.10	1.41	1.52
4	7-F	483	ASP	C-N	8.10	1.44	1.33
4	8-F	320	GLU	CA-C	-8.10	1.41	1.52
4	8-F	483	ASP	C-N	8.10	1.44	1.33
6	1-Z	500	GLU	CA-C	8.10	1.63	1.52
6	2-Z	500	GLU	CA-C	8.10	1.63	1.52
6	3-Z	500	GLU	CA-C	8.10	1.63	1.52
6	4-Z	500	GLU	CA-C	8.10	1.63	1.52
6	5-Z	500	GLU	CA-C	8.10	1.63	1.52
6	6-Z	500	GLU	CA-C	8.10	1.63	1.52
6	7-Z	500	GLU	CA-C	8.10	1.63	1.52
6	8-Z	500	GLU	CA-C	8.10	1.63	1.52
4	1-X	320	GLU	CA-C	-8.10	1.41	1.52
4	2-X	320	GLU	CA-C	-8.10	1.41	1.52
4	3-X	320	GLU	CA-C	-8.10	1.41	1.52
4	4-X	320	GLU	CA-C	-8.10	1.41	1.52
4	5-X	320	GLU	CA-C	-8.10	1.41	1.52
4	6-X	320	GLU	CA-C	-8.10	1.41	1.52
4	7-X	320	GLU	CA-C	-8.10	1.41	1.52
4	8-X	320	GLU	CA-C	-8.10	1.41	1.52
4	1-F	429	GLY	N-CA	-8.10	1.35	1.45
4	2-F	429	GLY	N-CA	-8.10	1.35	1.45
4	3-F	429	GLY	N-CA	-8.10	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	429	GLY	N-CA	-8.10	1.35	1.45
4	5-F	429	GLY	N-CA	-8.10	1.35	1.45
4	6-F	429	GLY	N-CA	-8.10	1.35	1.45
4	7-F	429	GLY	N-CA	-8.10	1.35	1.45
4	8-F	429	GLY	N-CA	-8.10	1.35	1.45
4	1-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	2-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	3-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	4-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	5-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	6-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	7-L	328	VAL	CA-CB	-8.09	1.43	1.53
4	8-L	328	VAL	CA-CB	-8.09	1.43	1.53
5	1-M	398	ALA	N-CA	8.09	1.56	1.46
5	2-M	398	ALA	N-CA	8.09	1.56	1.46
5	3-M	398	ALA	N-CA	8.09	1.56	1.46
5	4-M	398	ALA	N-CA	8.09	1.56	1.46
5	5-M	398	ALA	N-CA	8.09	1.56	1.46
5	6-M	398	ALA	N-CA	8.09	1.56	1.46
5	7-M	398	ALA	N-CA	8.09	1.56	1.46
5	8-M	398	ALA	N-CA	8.09	1.56	1.46
6	1-Z	466	ASP	C-N	8.09	1.44	1.34
6	2-Z	466	ASP	C-N	8.09	1.44	1.34
6	3-Z	466	ASP	C-N	8.09	1.44	1.34
6	4-Z	466	ASP	C-N	8.09	1.44	1.34
6	5-Z	466	ASP	C-N	8.09	1.44	1.34
6	6-Z	466	ASP	C-N	8.09	1.44	1.34
6	7-Z	466	ASP	C-N	8.09	1.44	1.34
6	8-Z	466	ASP	C-N	8.09	1.44	1.34
4	1-F	132	ASP	CA-CB	8.09	1.66	1.53
4	1-X	132	ASP	CA-CB	8.09	1.66	1.53
4	2-F	132	ASP	CA-CB	8.09	1.66	1.53
4	2-X	132	ASP	CA-CB	8.09	1.66	1.53
4	3-F	132	ASP	CA-CB	8.09	1.66	1.53
4	3-X	132	ASP	CA-CB	8.09	1.66	1.53
4	4-F	132	ASP	CA-CB	8.09	1.66	1.53
4	4-X	132	ASP	CA-CB	8.09	1.66	1.53
4	5-F	132	ASP	CA-CB	8.09	1.66	1.53
4	5-X	132	ASP	CA-CB	8.09	1.66	1.53
4	6-F	132	ASP	CA-CB	8.09	1.66	1.53
4	6-X	132	ASP	CA-CB	8.09	1.66	1.53
4	7-F	132	ASP	CA-CB	8.09	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-X	132	ASP	CA-CB	8.09	1.66	1.53
4	8-F	132	ASP	CA-CB	8.09	1.66	1.53
4	8-X	132	ASP	CA-CB	8.09	1.66	1.53
4	1-L	305	ASP	C-N	-8.08	1.22	1.33
4	1-X	483	ASP	C-N	8.08	1.44	1.33
4	2-L	305	ASP	C-N	-8.08	1.22	1.33
4	2-X	483	ASP	C-N	8.08	1.44	1.33
4	3-L	305	ASP	C-N	-8.08	1.22	1.33
4	3-X	483	ASP	C-N	8.08	1.44	1.33
4	4-L	305	ASP	C-N	-8.08	1.22	1.33
4	4-X	483	ASP	C-N	8.08	1.44	1.33
4	5-L	305	ASP	C-N	-8.08	1.22	1.33
4	5-X	483	ASP	C-N	8.08	1.44	1.33
4	6-L	305	ASP	C-N	-8.08	1.22	1.33
4	6-X	483	ASP	C-N	8.08	1.44	1.33
4	7-L	305	ASP	C-N	-8.08	1.22	1.33
4	7-X	483	ASP	C-N	8.08	1.44	1.33
4	8-L	305	ASP	C-N	-8.08	1.22	1.33
4	8-X	483	ASP	C-N	8.08	1.44	1.33
4	1-L	320	GLU	CA-C	-8.07	1.41	1.52
4	1-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	1-Z	403	LEU	N-CA	8.07	1.56	1.46
4	2-L	320	GLU	CA-C	-8.07	1.41	1.52
4	2-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	2-Z	403	LEU	N-CA	8.07	1.56	1.46
4	3-L	320	GLU	CA-C	-8.07	1.41	1.52
4	3-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	3-Z	403	LEU	N-CA	8.07	1.56	1.46
4	4-L	320	GLU	CA-C	-8.07	1.41	1.52
4	4-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	4-Z	403	LEU	N-CA	8.07	1.56	1.46
4	5-L	320	GLU	CA-C	-8.07	1.41	1.52
4	5-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	5-Z	403	LEU	N-CA	8.07	1.56	1.46
4	6-L	320	GLU	CA-C	-8.07	1.41	1.52
4	6-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	6-Z	403	LEU	N-CA	8.07	1.56	1.46
4	7-L	320	GLU	CA-C	-8.07	1.41	1.52
4	7-X	328	VAL	CA-CB	-8.07	1.43	1.53
6	7-Z	403	LEU	N-CA	8.07	1.56	1.46
4	8-L	320	GLU	CA-C	-8.07	1.41	1.52
4	8-X	328	VAL	CA-CB	-8.07	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	403	LEU	N-CA	8.07	1.56	1.46
4	1-R	440	MET	N-CA	8.07	1.55	1.46
4	2-R	440	MET	N-CA	8.07	1.55	1.46
4	3-R	440	MET	N-CA	8.07	1.55	1.46
4	4-R	440	MET	N-CA	8.07	1.55	1.46
4	5-R	440	MET	N-CA	8.07	1.55	1.46
4	8-R	440	MET	N-CA	8.07	1.55	1.46
6	1-H	500	GLU	CA-C	8.07	1.63	1.52
4	1-L	132	ASP	CA-CB	8.07	1.66	1.53
6	2-H	500	GLU	CA-C	8.07	1.63	1.52
4	2-L	132	ASP	CA-CB	8.07	1.66	1.53
6	3-H	500	GLU	CA-C	8.07	1.63	1.52
4	3-L	132	ASP	CA-CB	8.07	1.66	1.53
6	4-H	500	GLU	CA-C	8.07	1.63	1.52
4	4-L	132	ASP	CA-CB	8.07	1.66	1.53
6	5-H	500	GLU	CA-C	8.07	1.63	1.52
4	5-L	132	ASP	CA-CB	8.07	1.66	1.53
6	6-H	500	GLU	CA-C	8.07	1.63	1.52
4	6-L	132	ASP	CA-CB	8.07	1.66	1.53
4	6-R	440	MET	N-CA	8.07	1.55	1.46
4	7-R	440	MET	N-CA	8.07	1.55	1.46
6	7-H	500	GLU	CA-C	8.07	1.63	1.52
4	7-L	132	ASP	CA-CB	8.07	1.66	1.53
6	8-H	500	GLU	CA-C	8.07	1.63	1.52
4	8-L	132	ASP	CA-CB	8.07	1.66	1.53
4	1-R	483	ASP	C-N	8.07	1.44	1.33
4	1-X	305	ASP	C-N	-8.07	1.22	1.33
4	2-R	483	ASP	C-N	8.07	1.44	1.33
4	2-X	305	ASP	C-N	-8.07	1.22	1.33
4	3-R	483	ASP	C-N	8.07	1.44	1.33
4	3-X	305	ASP	C-N	-8.07	1.22	1.33
4	4-R	483	ASP	C-N	8.07	1.44	1.33
4	4-X	305	ASP	C-N	-8.07	1.22	1.33
4	5-R	483	ASP	C-N	8.07	1.44	1.33
4	5-X	305	ASP	C-N	-8.07	1.22	1.33
4	6-R	483	ASP	C-N	8.07	1.44	1.33
4	6-X	305	ASP	C-N	-8.07	1.22	1.33
4	7-R	483	ASP	C-N	8.07	1.44	1.33
4	7-X	305	ASP	C-N	-8.07	1.22	1.33
4	8-R	483	ASP	C-N	8.07	1.44	1.33
4	8-X	305	ASP	C-N	-8.07	1.22	1.33
4	1-F	328	VAL	CA-CB	-8.06	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	328	VAL	CA-CB	-8.06	1.43	1.53
4	3-F	328	VAL	CA-CB	-8.06	1.43	1.53
4	4-F	328	VAL	CA-CB	-8.06	1.43	1.53
4	5-F	328	VAL	CA-CB	-8.06	1.43	1.53
4	6-F	328	VAL	CA-CB	-8.06	1.43	1.53
4	7-F	328	VAL	CA-CB	-8.06	1.43	1.53
4	8-F	328	VAL	CA-CB	-8.06	1.43	1.53
6	1-H	466	ASP	C-N	8.06	1.44	1.34
6	2-H	466	ASP	C-N	8.06	1.44	1.34
6	3-H	466	ASP	C-N	8.06	1.44	1.34
6	4-H	466	ASP	C-N	8.06	1.44	1.34
6	5-H	466	ASP	C-N	8.06	1.44	1.34
6	6-H	466	ASP	C-N	8.06	1.44	1.34
6	7-H	466	ASP	C-N	8.06	1.44	1.34
6	8-H	466	ASP	C-N	8.06	1.44	1.34
6	1-N	466	ASP	C-N	8.05	1.44	1.34
4	1-X	440	MET	N-CA	8.05	1.55	1.46
6	2-N	466	ASP	C-N	8.05	1.44	1.34
4	2-X	440	MET	N-CA	8.05	1.55	1.46
6	3-N	466	ASP	C-N	8.05	1.44	1.34
4	3-X	440	MET	N-CA	8.05	1.55	1.46
6	4-N	466	ASP	C-N	8.05	1.44	1.34
4	4-X	440	MET	N-CA	8.05	1.55	1.46
6	5-N	466	ASP	C-N	8.05	1.44	1.34
4	5-X	440	MET	N-CA	8.05	1.55	1.46
6	6-N	466	ASP	C-N	8.05	1.44	1.34
4	6-X	440	MET	N-CA	8.05	1.55	1.46
6	7-N	466	ASP	C-N	8.05	1.44	1.34
4	7-X	440	MET	N-CA	8.05	1.55	1.46
6	8-N	466	ASP	C-N	8.05	1.44	1.34
4	8-X	440	MET	N-CA	8.05	1.55	1.46
2	1-O	4	GLU	CA-C	8.05	1.64	1.52
2	1-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	2-O	4	GLU	CA-C	8.05	1.64	1.52
2	2-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	3-O	4	GLU	CA-C	8.05	1.64	1.52
2	3-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	4-O	4	GLU	CA-C	8.05	1.64	1.52
2	4-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	5-O	4	GLU	CA-C	8.05	1.64	1.52
2	5-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	6-O	4	GLU	CA-C	8.05	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	7-O	4	GLU	CA-C	8.05	1.64	1.52
2	7-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	8-O	4	GLU	CA-C	8.05	1.64	1.52
2	8-U	11	GLN	CA-CB	-8.05	1.40	1.53
2	1-C	4	GLU	CA-C	8.05	1.64	1.52
6	1-T	407	LEU	CA-C	-8.05	1.41	1.52
2	2-C	4	GLU	CA-C	8.05	1.64	1.52
6	2-T	407	LEU	CA-C	-8.05	1.41	1.52
2	3-C	4	GLU	CA-C	8.05	1.64	1.52
6	3-T	407	LEU	CA-C	-8.05	1.41	1.52
2	4-C	4	GLU	CA-C	8.05	1.64	1.52
6	4-T	407	LEU	CA-C	-8.05	1.41	1.52
2	5-C	4	GLU	CA-C	8.05	1.64	1.52
6	5-T	407	LEU	CA-C	-8.05	1.41	1.52
2	6-C	4	GLU	CA-C	8.05	1.64	1.52
6	6-T	407	LEU	CA-C	-8.05	1.41	1.52
2	7-C	4	GLU	CA-C	8.05	1.64	1.52
6	7-T	407	LEU	CA-C	-8.05	1.41	1.52
2	8-C	4	GLU	CA-C	8.05	1.64	1.52
6	8-T	407	LEU	CA-C	-8.05	1.41	1.52
4	1-R	305	ASP	C-N	-8.04	1.22	1.33
4	2-R	305	ASP	C-N	-8.04	1.22	1.33
4	3-R	305	ASP	C-N	-8.04	1.22	1.33
4	4-R	305	ASP	C-N	-8.04	1.22	1.33
4	5-R	305	ASP	C-N	-8.04	1.22	1.33
4	6-R	305	ASP	C-N	-8.04	1.22	1.33
4	7-R	305	ASP	C-N	-8.04	1.22	1.33
4	8-R	305	ASP	C-N	-8.04	1.22	1.33
4	1-L	477	LEU	CA-C	-8.04	1.42	1.52
4	1-R	465	GLN	N-CA	8.04	1.55	1.46
4	2-L	477	LEU	CA-C	-8.04	1.42	1.52
4	2-R	465	GLN	N-CA	8.04	1.55	1.46
4	3-L	477	LEU	CA-C	-8.04	1.42	1.52
4	3-R	465	GLN	N-CA	8.04	1.55	1.46
4	4-L	477	LEU	CA-C	-8.04	1.42	1.52
4	4-R	465	GLN	N-CA	8.04	1.55	1.46
4	5-L	477	LEU	CA-C	-8.04	1.42	1.52
4	5-R	465	GLN	N-CA	8.04	1.55	1.46
4	6-L	477	LEU	CA-C	-8.04	1.42	1.52
4	6-R	465	GLN	N-CA	8.04	1.55	1.46
4	7-L	477	LEU	CA-C	-8.04	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-R	465	GLN	N-CA	8.04	1.55	1.46
4	8-L	477	LEU	CA-C	-8.04	1.42	1.52
4	8-R	465	GLN	N-CA	8.04	1.55	1.46
4	1-L	401	TYR	CA-CB	8.03	1.67	1.53
6	1-T	493	ALA	C-N	8.03	1.45	1.33
2	1-U	4	GLU	CA-C	8.03	1.64	1.52
4	2-L	401	TYR	CA-CB	8.03	1.67	1.53
6	2-T	493	ALA	C-N	8.03	1.45	1.33
6	3-T	493	ALA	C-N	8.03	1.45	1.33
6	6-T	493	ALA	C-N	8.03	1.45	1.33
6	8-T	493	ALA	C-N	8.03	1.45	1.33
2	2-U	4	GLU	CA-C	8.03	1.64	1.52
4	3-L	401	TYR	CA-CB	8.03	1.67	1.53
2	3-U	4	GLU	CA-C	8.03	1.64	1.52
4	4-L	401	TYR	CA-CB	8.03	1.67	1.53
6	4-T	493	ALA	C-N	8.03	1.45	1.33
2	4-U	4	GLU	CA-C	8.03	1.64	1.52
4	5-L	401	TYR	CA-CB	8.03	1.67	1.53
6	5-T	493	ALA	C-N	8.03	1.45	1.33
2	5-U	4	GLU	CA-C	8.03	1.64	1.52
4	6-L	401	TYR	CA-CB	8.03	1.67	1.53
2	6-U	4	GLU	CA-C	8.03	1.64	1.52
4	7-L	401	TYR	CA-CB	8.03	1.67	1.53
6	7-T	493	ALA	C-N	8.03	1.45	1.33
2	7-U	4	GLU	CA-C	8.03	1.64	1.52
4	8-L	401	TYR	CA-CB	8.03	1.67	1.53
2	8-U	4	GLU	CA-C	8.03	1.64	1.52
4	1-R	429	GLY	N-CA	-8.03	1.35	1.45
4	2-R	429	GLY	N-CA	-8.03	1.35	1.45
4	3-R	429	GLY	N-CA	-8.03	1.35	1.45
4	4-R	429	GLY	N-CA	-8.03	1.35	1.45
4	5-R	429	GLY	N-CA	-8.03	1.35	1.45
4	6-R	429	GLY	N-CA	-8.03	1.35	1.45
4	7-R	429	GLY	N-CA	-8.03	1.35	1.45
4	8-R	429	GLY	N-CA	-8.03	1.35	1.45
4	1-L	483	ASP	C-N	8.02	1.44	1.33
4	2-L	483	ASP	C-N	8.02	1.44	1.33
4	3-L	483	ASP	C-N	8.02	1.44	1.33
4	4-L	483	ASP	C-N	8.02	1.44	1.33
4	5-L	483	ASP	C-N	8.02	1.44	1.33
4	6-L	483	ASP	C-N	8.02	1.44	1.33
4	7-L	483	ASP	C-N	8.02	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	483	ASP	C-N	8.02	1.44	1.33
2	1-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	1-F	477	LEU	CA-C	-8.02	1.42	1.52
6	1-N	493	ALA	C-N	8.02	1.45	1.33
4	1-X	465	GLN	N-CA	8.02	1.55	1.46
2	2-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	2-F	477	LEU	CA-C	-8.02	1.42	1.52
6	2-N	493	ALA	C-N	8.02	1.45	1.33
4	2-X	465	GLN	N-CA	8.02	1.55	1.46
2	3-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	3-F	477	LEU	CA-C	-8.02	1.42	1.52
6	3-N	493	ALA	C-N	8.02	1.45	1.33
4	3-X	465	GLN	N-CA	8.02	1.55	1.46
2	4-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	4-F	477	LEU	CA-C	-8.02	1.42	1.52
6	4-N	493	ALA	C-N	8.02	1.45	1.33
4	4-X	465	GLN	N-CA	8.02	1.55	1.46
2	5-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	5-F	477	LEU	CA-C	-8.02	1.42	1.52
6	5-N	493	ALA	C-N	8.02	1.45	1.33
4	5-X	465	GLN	N-CA	8.02	1.55	1.46
2	6-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	6-F	477	LEU	CA-C	-8.02	1.42	1.52
6	6-N	493	ALA	C-N	8.02	1.45	1.33
4	6-X	465	GLN	N-CA	8.02	1.55	1.46
2	7-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	7-F	477	LEU	CA-C	-8.02	1.42	1.52
6	7-N	493	ALA	C-N	8.02	1.45	1.33
4	7-X	465	GLN	N-CA	8.02	1.55	1.46
2	8-C	11	GLN	CA-CB	-8.02	1.40	1.53
4	8-F	477	LEU	CA-C	-8.02	1.42	1.52
6	8-N	493	ALA	C-N	8.02	1.45	1.33
4	8-X	465	GLN	N-CA	8.02	1.55	1.46
4	1-F	401	TYR	CA-CB	8.02	1.67	1.53
4	1-X	477	LEU	CA-C	-8.02	1.42	1.52
4	2-F	401	TYR	CA-CB	8.02	1.67	1.53
4	2-X	477	LEU	CA-C	-8.02	1.42	1.52
4	3-F	401	TYR	CA-CB	8.02	1.67	1.53
4	3-X	477	LEU	CA-C	-8.02	1.42	1.52
4	4-F	401	TYR	CA-CB	8.02	1.67	1.53
4	4-X	477	LEU	CA-C	-8.02	1.42	1.52
4	5-F	401	TYR	CA-CB	8.02	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-X	477	LEU	CA-C	-8.02	1.42	1.52
4	6-F	401	TYR	CA-CB	8.02	1.67	1.53
4	6-X	477	LEU	CA-C	-8.02	1.42	1.52
4	7-F	401	TYR	CA-CB	8.02	1.67	1.53
4	7-X	477	LEU	CA-C	-8.02	1.42	1.52
4	8-F	401	TYR	CA-CB	8.02	1.67	1.53
4	8-X	477	LEU	CA-C	-8.02	1.42	1.52
4	1-F	440	MET	N-CA	8.02	1.55	1.46
4	2-F	440	MET	N-CA	8.02	1.55	1.46
4	3-F	440	MET	N-CA	8.02	1.55	1.46
4	4-F	440	MET	N-CA	8.02	1.55	1.46
4	5-F	440	MET	N-CA	8.02	1.55	1.46
4	6-F	440	MET	N-CA	8.02	1.55	1.46
4	7-F	440	MET	N-CA	8.02	1.55	1.46
4	8-F	440	MET	N-CA	8.02	1.55	1.46
4	1-F	305	ASP	C-N	-8.02	1.22	1.33
6	1-T	500	GLU	CA-C	8.02	1.63	1.52
4	2-F	305	ASP	C-N	-8.02	1.22	1.33
6	2-T	500	GLU	CA-C	8.02	1.63	1.52
4	3-F	305	ASP	C-N	-8.02	1.22	1.33
6	3-T	500	GLU	CA-C	8.02	1.63	1.52
4	4-F	305	ASP	C-N	-8.02	1.22	1.33
6	4-T	500	GLU	CA-C	8.02	1.63	1.52
4	5-F	305	ASP	C-N	-8.02	1.22	1.33
6	5-T	500	GLU	CA-C	8.02	1.63	1.52
4	6-F	305	ASP	C-N	-8.02	1.22	1.33
6	6-T	500	GLU	CA-C	8.02	1.63	1.52
4	7-F	305	ASP	C-N	-8.02	1.22	1.33
6	7-T	500	GLU	CA-C	8.02	1.63	1.52
4	8-F	305	ASP	C-N	-8.02	1.22	1.33
6	8-T	500	GLU	CA-C	8.02	1.63	1.52
2	1-I	4	GLU	CA-C	8.02	1.64	1.52
2	2-I	4	GLU	CA-C	8.02	1.64	1.52
2	3-I	4	GLU	CA-C	8.02	1.64	1.52
2	4-I	4	GLU	CA-C	8.02	1.64	1.52
2	5-I	4	GLU	CA-C	8.02	1.64	1.52
2	6-I	4	GLU	CA-C	8.02	1.64	1.52
2	7-I	4	GLU	CA-C	8.02	1.64	1.52
2	8-I	4	GLU	CA-C	8.02	1.64	1.52
4	1-R	477	LEU	CA-C	-8.01	1.42	1.52
4	2-R	477	LEU	CA-C	-8.01	1.42	1.52
4	3-R	477	LEU	CA-C	-8.01	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	477	LEU	CA-C	-8.01	1.42	1.52
4	5-R	477	LEU	CA-C	-8.01	1.42	1.52
4	6-R	477	LEU	CA-C	-8.01	1.42	1.52
4	7-R	477	LEU	CA-C	-8.01	1.42	1.52
4	8-R	477	LEU	CA-C	-8.01	1.42	1.52
4	1-L	465	GLN	N-CA	8.01	1.55	1.46
6	1-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	2-L	465	GLN	N-CA	8.01	1.55	1.46
6	2-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	3-L	465	GLN	N-CA	8.01	1.55	1.46
6	3-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	4-L	465	GLN	N-CA	8.01	1.55	1.46
6	4-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	5-L	465	GLN	N-CA	8.01	1.55	1.46
6	5-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	6-L	465	GLN	N-CA	8.01	1.55	1.46
6	6-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	7-L	465	GLN	N-CA	8.01	1.55	1.46
6	7-Z	468	SER	CA-CB	-8.01	1.40	1.53
4	8-L	465	GLN	N-CA	8.01	1.55	1.46
6	8-Z	468	SER	CA-CB	-8.01	1.40	1.53
3	1-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	1-Z	493	ALA	C-N	8.00	1.44	1.33
6	2-Z	493	ALA	C-N	8.00	1.44	1.33
6	3-Z	493	ALA	C-N	8.00	1.44	1.33
6	4-Z	493	ALA	C-N	8.00	1.44	1.33
6	5-Z	493	ALA	C-N	8.00	1.44	1.33
6	1-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	2-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	2-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	3-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	3-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	4-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	4-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	5-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	5-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	6-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	6-Z	493	ALA	C-N	8.00	1.44	1.33
6	7-Z	493	ALA	C-N	8.00	1.44	1.33
6	8-Z	493	ALA	C-N	8.00	1.44	1.33
6	6-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	7-D	1522	LEU	CA-C	-8.00	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	7-Z	407	LEU	CA-C	-8.00	1.41	1.52
3	8-D	1522	LEU	CA-C	-8.00	1.42	1.52
6	8-Z	407	LEU	CA-C	-8.00	1.41	1.52
6	1-H	407	LEU	CA-C	-8.00	1.41	1.52
3	1-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	2-H	407	LEU	CA-C	-8.00	1.41	1.52
3	2-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	3-H	407	LEU	CA-C	-8.00	1.41	1.52
3	3-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	4-H	407	LEU	CA-C	-8.00	1.41	1.52
3	4-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	5-H	407	LEU	CA-C	-8.00	1.41	1.52
3	5-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	6-H	407	LEU	CA-C	-8.00	1.41	1.52
3	6-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	7-H	407	LEU	CA-C	-8.00	1.41	1.52
3	7-V	1522	LEU	CA-C	-8.00	1.42	1.52
6	8-H	407	LEU	CA-C	-8.00	1.41	1.52
3	8-V	1522	LEU	CA-C	-8.00	1.42	1.52
4	1-R	401	TYR	CA-CB	8.00	1.67	1.53
4	2-R	401	TYR	CA-CB	8.00	1.67	1.53
4	3-R	401	TYR	CA-CB	8.00	1.67	1.53
4	4-R	401	TYR	CA-CB	8.00	1.67	1.53
4	5-R	401	TYR	CA-CB	8.00	1.67	1.53
4	6-R	401	TYR	CA-CB	8.00	1.67	1.53
4	7-R	401	TYR	CA-CB	8.00	1.67	1.53
4	8-R	401	TYR	CA-CB	8.00	1.67	1.53
4	1-F	465	GLN	N-CA	7.99	1.55	1.46
3	1-P	1662	CYS	C-N	7.99	1.43	1.33
6	1-T	466	ASP	C-N	7.99	1.44	1.34
4	2-F	465	GLN	N-CA	7.99	1.55	1.46
3	2-P	1662	CYS	C-N	7.99	1.43	1.33
6	2-T	466	ASP	C-N	7.99	1.44	1.34
4	3-F	465	GLN	N-CA	7.99	1.55	1.46
3	3-P	1662	CYS	C-N	7.99	1.43	1.33
6	3-T	466	ASP	C-N	7.99	1.44	1.34
4	4-F	465	GLN	N-CA	7.99	1.55	1.46
3	4-P	1662	CYS	C-N	7.99	1.43	1.33
6	4-T	466	ASP	C-N	7.99	1.44	1.34
4	5-F	465	GLN	N-CA	7.99	1.55	1.46
3	5-P	1662	CYS	C-N	7.99	1.43	1.33
6	5-T	466	ASP	C-N	7.99	1.44	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	465	GLN	N-CA	7.99	1.55	1.46
3	6-P	1662	CYS	C-N	7.99	1.43	1.33
6	6-T	466	ASP	C-N	7.99	1.44	1.34
4	7-F	465	GLN	N-CA	7.99	1.55	1.46
3	7-P	1662	CYS	C-N	7.99	1.43	1.33
6	7-T	466	ASP	C-N	7.99	1.44	1.34
4	8-F	465	GLN	N-CA	7.99	1.55	1.46
3	8-P	1662	CYS	C-N	7.99	1.43	1.33
6	8-T	466	ASP	C-N	7.99	1.44	1.34
6	1-N	500	GLU	CA-C	7.99	1.63	1.52
6	2-N	500	GLU	CA-C	7.99	1.63	1.52
6	3-N	500	GLU	CA-C	7.99	1.63	1.52
6	4-N	500	GLU	CA-C	7.99	1.63	1.52
6	5-N	500	GLU	CA-C	7.99	1.63	1.52
6	6-N	500	GLU	CA-C	7.99	1.63	1.52
6	7-N	500	GLU	CA-C	7.99	1.63	1.52
6	8-N	500	GLU	CA-C	7.99	1.63	1.52
3	1-J	1662	CYS	C-N	7.99	1.43	1.33
3	2-J	1662	CYS	C-N	7.99	1.43	1.33
3	3-J	1662	CYS	C-N	7.99	1.43	1.33
3	4-J	1662	CYS	C-N	7.99	1.43	1.33
3	5-J	1662	CYS	C-N	7.99	1.43	1.33
3	6-J	1662	CYS	C-N	7.99	1.43	1.33
3	7-J	1662	CYS	C-N	7.99	1.43	1.33
3	8-J	1662	CYS	C-N	7.99	1.43	1.33
4	1-L	440	MET	N-CA	7.98	1.55	1.46
6	1-N	468	SER	CA-CB	-7.98	1.40	1.53
4	2-L	440	MET	N-CA	7.98	1.55	1.46
6	2-N	468	SER	CA-CB	-7.98	1.40	1.53
4	3-L	440	MET	N-CA	7.98	1.55	1.46
6	3-N	468	SER	CA-CB	-7.98	1.40	1.53
4	4-L	440	MET	N-CA	7.98	1.55	1.46
6	4-N	468	SER	CA-CB	-7.98	1.40	1.53
4	5-L	440	MET	N-CA	7.98	1.55	1.46
6	5-N	468	SER	CA-CB	-7.98	1.40	1.53
4	6-L	440	MET	N-CA	7.98	1.55	1.46
6	6-N	468	SER	CA-CB	-7.98	1.40	1.53
4	7-L	440	MET	N-CA	7.98	1.55	1.46
6	7-N	468	SER	CA-CB	-7.98	1.40	1.53
4	8-L	440	MET	N-CA	7.98	1.55	1.46
6	8-N	468	SER	CA-CB	-7.98	1.40	1.53
6	1-T	468	SER	CA-CB	-7.98	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-X	401	TYR	CA-CB	7.98	1.67	1.53
6	2-T	468	SER	CA-CB	-7.98	1.40	1.53
4	2-X	401	TYR	CA-CB	7.98	1.67	1.53
6	3-T	468	SER	CA-CB	-7.98	1.40	1.53
4	3-X	401	TYR	CA-CB	7.98	1.67	1.53
6	4-T	468	SER	CA-CB	-7.98	1.40	1.53
4	4-X	401	TYR	CA-CB	7.98	1.67	1.53
6	5-T	468	SER	CA-CB	-7.98	1.40	1.53
4	5-X	401	TYR	CA-CB	7.98	1.67	1.53
6	6-T	468	SER	CA-CB	-7.98	1.40	1.53
4	6-X	401	TYR	CA-CB	7.98	1.67	1.53
6	7-T	468	SER	CA-CB	-7.98	1.40	1.53
4	7-X	401	TYR	CA-CB	7.98	1.67	1.53
6	8-T	468	SER	CA-CB	-7.98	1.40	1.53
4	8-X	401	TYR	CA-CB	7.98	1.67	1.53
4	1-F	475	SER	CA-C	-7.98	1.42	1.52
4	2-F	475	SER	CA-C	-7.98	1.42	1.52
4	3-F	475	SER	CA-C	-7.98	1.42	1.52
4	4-F	475	SER	CA-C	-7.98	1.42	1.52
4	5-F	475	SER	CA-C	-7.98	1.42	1.52
4	6-F	475	SER	CA-C	-7.98	1.42	1.52
4	7-F	475	SER	CA-C	-7.98	1.42	1.52
4	8-F	475	SER	CA-C	-7.98	1.42	1.52
6	1-H	493	ALA	C-N	7.97	1.44	1.33
2	1-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	2-H	493	ALA	C-N	7.97	1.44	1.33
2	2-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	3-H	493	ALA	C-N	7.97	1.44	1.33
2	3-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	4-H	493	ALA	C-N	7.97	1.44	1.33
2	4-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	5-H	493	ALA	C-N	7.97	1.44	1.33
2	5-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	6-H	493	ALA	C-N	7.97	1.44	1.33
2	6-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	7-H	493	ALA	C-N	7.97	1.44	1.33
2	7-O	11	GLN	CA-CB	-7.97	1.41	1.53
6	8-H	493	ALA	C-N	7.97	1.44	1.33
2	8-O	11	GLN	CA-CB	-7.97	1.41	1.53
4	1-X	475	SER	CA-C	-7.97	1.42	1.52
4	2-X	475	SER	CA-C	-7.97	1.42	1.52
4	3-X	475	SER	CA-C	-7.97	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	475	SER	CA-C	-7.97	1.42	1.52
4	5-X	475	SER	CA-C	-7.97	1.42	1.52
4	6-X	475	SER	CA-C	-7.97	1.42	1.52
4	7-X	475	SER	CA-C	-7.97	1.42	1.52
4	8-X	475	SER	CA-C	-7.97	1.42	1.52
3	1-D	1662	CYS	C-N	7.96	1.43	1.33
4	1-F	449	SER	CA-CB	-7.96	1.40	1.53
3	1-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	2-D	1662	CYS	C-N	7.96	1.43	1.33
4	2-F	449	SER	CA-CB	-7.96	1.40	1.53
3	2-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	3-D	1662	CYS	C-N	7.96	1.43	1.33
4	3-F	449	SER	CA-CB	-7.96	1.40	1.53
3	3-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	4-D	1662	CYS	C-N	7.96	1.43	1.33
4	4-F	449	SER	CA-CB	-7.96	1.40	1.53
3	4-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	5-D	1662	CYS	C-N	7.96	1.43	1.33
4	5-F	449	SER	CA-CB	-7.96	1.40	1.53
3	5-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	6-D	1662	CYS	C-N	7.96	1.43	1.33
4	6-F	449	SER	CA-CB	-7.96	1.40	1.53
3	6-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	7-D	1662	CYS	C-N	7.96	1.43	1.33
4	7-F	449	SER	CA-CB	-7.96	1.40	1.53
3	7-P	1522	LEU	CA-C	-7.96	1.42	1.52
3	8-D	1662	CYS	C-N	7.96	1.43	1.33
4	8-F	449	SER	CA-CB	-7.96	1.40	1.53
3	8-P	1522	LEU	CA-C	-7.96	1.42	1.52
6	1-N	407	LEU	CA-C	-7.96	1.41	1.52
6	2-N	407	LEU	CA-C	-7.96	1.41	1.52
6	3-N	407	LEU	CA-C	-7.96	1.41	1.52
6	4-N	407	LEU	CA-C	-7.96	1.41	1.52
6	5-N	407	LEU	CA-C	-7.96	1.41	1.52
6	6-N	407	LEU	CA-C	-7.96	1.41	1.52
6	7-N	407	LEU	CA-C	-7.96	1.41	1.52
6	8-N	407	LEU	CA-C	-7.96	1.41	1.52
3	1-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	1-V	1662	CYS	C-N	7.95	1.43	1.33
3	2-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	2-V	1662	CYS	C-N	7.95	1.43	1.33
3	3-J	1522	LEU	CA-C	-7.95	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-V	1662	CYS	C-N	7.95	1.43	1.33
3	4-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	4-V	1662	CYS	C-N	7.95	1.43	1.33
3	5-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	5-V	1662	CYS	C-N	7.95	1.43	1.33
3	6-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	6-V	1662	CYS	C-N	7.95	1.43	1.33
3	7-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	7-V	1662	CYS	C-N	7.95	1.43	1.33
3	8-J	1522	LEU	CA-C	-7.95	1.42	1.52
3	8-V	1662	CYS	C-N	7.95	1.43	1.33
6	1-H	468	SER	CA-CB	-7.95	1.40	1.53
5	1-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	2-H	468	SER	CA-CB	-7.95	1.40	1.53
5	2-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	3-H	468	SER	CA-CB	-7.95	1.40	1.53
5	3-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	4-H	468	SER	CA-CB	-7.95	1.40	1.53
5	4-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	5-H	468	SER	CA-CB	-7.95	1.40	1.53
5	5-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	6-H	468	SER	CA-CB	-7.95	1.40	1.53
5	6-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	7-H	468	SER	CA-CB	-7.95	1.40	1.53
5	7-Y	317	GLN	CA-CB	7.95	1.66	1.53
6	8-H	468	SER	CA-CB	-7.95	1.40	1.53
5	8-Y	317	GLN	CA-CB	7.95	1.66	1.53
4	1-R	475	SER	CA-C	-7.95	1.42	1.52
4	2-R	475	SER	CA-C	-7.95	1.42	1.52
4	3-R	475	SER	CA-C	-7.95	1.42	1.52
4	4-R	475	SER	CA-C	-7.95	1.42	1.52
4	5-R	475	SER	CA-C	-7.95	1.42	1.52
4	6-R	475	SER	CA-C	-7.95	1.42	1.52
4	7-R	475	SER	CA-C	-7.95	1.42	1.52
4	8-R	475	SER	CA-C	-7.95	1.42	1.52
2	1-I	11	GLN	CA-CB	-7.95	1.41	1.53
2	2-I	11	GLN	CA-CB	-7.95	1.41	1.53
2	3-I	11	GLN	CA-CB	-7.95	1.41	1.53
2	4-I	11	GLN	CA-CB	-7.95	1.41	1.53
2	5-I	11	GLN	CA-CB	-7.95	1.41	1.53
2	6-I	11	GLN	CA-CB	-7.95	1.41	1.53
2	7-I	11	GLN	CA-CB	-7.95	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-I	11	GLN	CA-CB	-7.95	1.41	1.53
6	1-N	472	GLN	N-CA	-7.94	1.35	1.46
6	2-N	472	GLN	N-CA	-7.94	1.35	1.46
6	3-N	472	GLN	N-CA	-7.94	1.35	1.46
6	4-N	472	GLN	N-CA	-7.94	1.35	1.46
6	5-N	472	GLN	N-CA	-7.94	1.35	1.46
6	6-N	472	GLN	N-CA	-7.94	1.35	1.46
6	7-N	472	GLN	N-CA	-7.94	1.35	1.46
6	8-N	472	GLN	N-CA	-7.94	1.35	1.46
5	1-M	317	GLN	CA-CB	7.92	1.65	1.53
4	1-R	449	SER	CA-CB	-7.92	1.40	1.53
5	2-M	317	GLN	CA-CB	7.92	1.65	1.53
4	2-R	449	SER	CA-CB	-7.92	1.40	1.53
5	3-M	317	GLN	CA-CB	7.92	1.65	1.53
4	3-R	449	SER	CA-CB	-7.92	1.40	1.53
5	4-M	317	GLN	CA-CB	7.92	1.65	1.53
4	4-R	449	SER	CA-CB	-7.92	1.40	1.53
5	5-M	317	GLN	CA-CB	7.92	1.65	1.53
4	5-R	449	SER	CA-CB	-7.92	1.40	1.53
5	6-M	317	GLN	CA-CB	7.92	1.65	1.53
4	6-R	449	SER	CA-CB	-7.92	1.40	1.53
5	7-M	317	GLN	CA-CB	7.92	1.65	1.53
4	7-R	449	SER	CA-CB	-7.92	1.40	1.53
5	8-M	317	GLN	CA-CB	7.92	1.65	1.53
4	8-R	449	SER	CA-CB	-7.92	1.40	1.53
5	1-G	317	GLN	CA-CB	7.92	1.65	1.53
5	2-G	317	GLN	CA-CB	7.92	1.65	1.53
5	3-G	317	GLN	CA-CB	7.92	1.65	1.53
5	4-G	317	GLN	CA-CB	7.92	1.65	1.53
5	5-G	317	GLN	CA-CB	7.92	1.65	1.53
5	6-G	317	GLN	CA-CB	7.92	1.65	1.53
5	7-G	317	GLN	CA-CB	7.92	1.65	1.53
5	8-G	317	GLN	CA-CB	7.92	1.65	1.53
4	1-L	475	SER	CA-C	-7.92	1.42	1.52
4	2-L	475	SER	CA-C	-7.92	1.42	1.52
4	3-L	475	SER	CA-C	-7.92	1.42	1.52
4	4-L	475	SER	CA-C	-7.92	1.42	1.52
4	5-L	475	SER	CA-C	-7.92	1.42	1.52
4	6-L	475	SER	CA-C	-7.92	1.42	1.52
4	7-L	475	SER	CA-C	-7.92	1.42	1.52
4	8-L	475	SER	CA-C	-7.92	1.42	1.52
4	1-F	443	HIS	CA-CB	-7.92	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-S	317	GLN	CA-CB	7.92	1.65	1.53
4	2-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	2-S	317	GLN	CA-CB	7.92	1.65	1.53
4	3-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	3-S	317	GLN	CA-CB	7.92	1.65	1.53
4	4-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	4-S	317	GLN	CA-CB	7.92	1.65	1.53
4	5-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	5-S	317	GLN	CA-CB	7.92	1.65	1.53
4	6-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	6-S	317	GLN	CA-CB	7.92	1.65	1.53
4	7-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	7-S	317	GLN	CA-CB	7.92	1.65	1.53
4	8-F	443	HIS	CA-CB	-7.92	1.40	1.53
5	8-S	317	GLN	CA-CB	7.92	1.65	1.53
6	1-T	472	GLN	N-CA	-7.91	1.35	1.46
6	2-T	472	GLN	N-CA	-7.91	1.35	1.46
6	3-T	472	GLN	N-CA	-7.91	1.35	1.46
6	4-T	472	GLN	N-CA	-7.91	1.35	1.46
6	5-T	472	GLN	N-CA	-7.91	1.35	1.46
6	6-T	472	GLN	N-CA	-7.91	1.35	1.46
6	7-T	472	GLN	N-CA	-7.91	1.35	1.46
6	8-T	472	GLN	N-CA	-7.91	1.35	1.46
6	1-H	472	GLN	N-CA	-7.91	1.35	1.46
6	2-H	472	GLN	N-CA	-7.91	1.35	1.46
6	3-H	472	GLN	N-CA	-7.91	1.35	1.46
6	4-H	472	GLN	N-CA	-7.91	1.35	1.46
6	5-H	472	GLN	N-CA	-7.91	1.35	1.46
6	6-H	472	GLN	N-CA	-7.91	1.35	1.46
6	7-H	472	GLN	N-CA	-7.91	1.35	1.46
6	8-H	472	GLN	N-CA	-7.91	1.35	1.46
4	1-F	473	GLY	CA-C	-7.90	1.43	1.52
4	2-F	473	GLY	CA-C	-7.90	1.43	1.52
4	3-F	473	GLY	CA-C	-7.90	1.43	1.52
4	4-F	473	GLY	CA-C	-7.90	1.43	1.52
4	5-F	473	GLY	CA-C	-7.90	1.43	1.52
4	6-F	473	GLY	CA-C	-7.90	1.43	1.52
4	7-F	473	GLY	CA-C	-7.90	1.43	1.52
4	8-F	473	GLY	CA-C	-7.90	1.43	1.52
4	1-X	473	GLY	CA-C	-7.90	1.43	1.52
4	2-X	473	GLY	CA-C	-7.90	1.43	1.52
4	3-X	473	GLY	CA-C	-7.90	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	473	GLY	CA-C	-7.90	1.43	1.52
4	5-X	473	GLY	CA-C	-7.90	1.43	1.52
4	6-X	473	GLY	CA-C	-7.90	1.43	1.52
4	7-X	473	GLY	CA-C	-7.90	1.43	1.52
4	8-X	473	GLY	CA-C	-7.90	1.43	1.52
3	1-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	2-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	3-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	4-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	5-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	6-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	7-P	1473	TYR	N-CA	-7.90	1.36	1.46
3	8-P	1473	TYR	N-CA	-7.90	1.36	1.46
4	1-X	449	SER	CA-CB	-7.90	1.40	1.53
4	2-X	449	SER	CA-CB	-7.90	1.40	1.53
4	3-X	449	SER	CA-CB	-7.90	1.40	1.53
4	4-X	449	SER	CA-CB	-7.90	1.40	1.53
4	5-X	449	SER	CA-CB	-7.90	1.40	1.53
4	6-X	449	SER	CA-CB	-7.90	1.40	1.53
4	7-X	449	SER	CA-CB	-7.90	1.40	1.53
4	8-X	449	SER	CA-CB	-7.90	1.40	1.53
3	1-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	1-L	449	SER	CA-CB	-7.90	1.40	1.53
3	1-P	1449	TRP	N-CA	7.90	1.56	1.46
6	1-T	371	LYS	CA-C	-7.90	1.42	1.52
4	1-X	487	ASP	C-N	7.90	1.43	1.33
3	2-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	2-L	449	SER	CA-CB	-7.90	1.40	1.53
3	2-P	1449	TRP	N-CA	7.90	1.56	1.46
6	2-T	371	LYS	CA-C	-7.90	1.42	1.52
4	2-X	487	ASP	C-N	7.90	1.43	1.33
3	3-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	3-L	449	SER	CA-CB	-7.90	1.40	1.53
3	3-P	1449	TRP	N-CA	7.90	1.56	1.46
6	3-T	371	LYS	CA-C	-7.90	1.42	1.52
4	3-X	487	ASP	C-N	7.90	1.43	1.33
3	4-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	4-L	449	SER	CA-CB	-7.90	1.40	1.53
3	4-P	1449	TRP	N-CA	7.90	1.56	1.46
6	4-T	371	LYS	CA-C	-7.90	1.42	1.52
4	4-X	487	ASP	C-N	7.90	1.43	1.33
3	5-J	1473	TYR	N-CA	-7.90	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-L	449	SER	CA-CB	-7.90	1.40	1.53
3	5-P	1449	TRP	N-CA	7.90	1.56	1.46
6	5-T	371	LYS	CA-C	-7.90	1.42	1.52
4	5-X	487	ASP	C-N	7.90	1.43	1.33
3	6-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	6-L	449	SER	CA-CB	-7.90	1.40	1.53
3	6-P	1449	TRP	N-CA	7.90	1.56	1.46
6	6-T	371	LYS	CA-C	-7.90	1.42	1.52
4	6-X	487	ASP	C-N	7.90	1.43	1.33
3	7-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	7-L	449	SER	CA-CB	-7.90	1.40	1.53
3	7-P	1449	TRP	N-CA	7.90	1.56	1.46
6	7-T	371	LYS	CA-C	-7.90	1.42	1.52
4	7-X	487	ASP	C-N	7.90	1.43	1.33
3	8-J	1473	TYR	N-CA	-7.90	1.36	1.46
4	8-L	449	SER	CA-CB	-7.90	1.40	1.53
3	8-P	1449	TRP	N-CA	7.90	1.56	1.46
6	8-T	371	LYS	CA-C	-7.90	1.42	1.52
4	8-X	487	ASP	C-N	7.90	1.43	1.33
4	1-L	487	ASP	C-N	7.90	1.43	1.33
4	2-L	487	ASP	C-N	7.90	1.43	1.33
4	3-L	487	ASP	C-N	7.90	1.43	1.33
4	4-L	487	ASP	C-N	7.90	1.43	1.33
4	5-L	487	ASP	C-N	7.90	1.43	1.33
4	6-L	487	ASP	C-N	7.90	1.43	1.33
4	7-L	487	ASP	C-N	7.90	1.43	1.33
4	8-L	487	ASP	C-N	7.90	1.43	1.33
3	1-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	1-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	2-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	2-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	3-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	3-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	4-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	4-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	5-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	5-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	6-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	6-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	7-V	1473	TYR	N-CA	-7.89	1.36	1.46
6	7-Z	472	GLN	N-CA	-7.89	1.35	1.46
3	8-V	1473	TYR	N-CA	-7.89	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	472	GLN	N-CA	-7.89	1.35	1.46
6	1-H	371	LYS	CA-C	-7.89	1.42	1.52
4	1-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	1-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	2-H	371	LYS	CA-C	-7.89	1.42	1.52
4	2-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	2-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	3-H	371	LYS	CA-C	-7.89	1.42	1.52
4	3-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	3-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	4-H	371	LYS	CA-C	-7.89	1.42	1.52
4	4-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	4-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	5-H	371	LYS	CA-C	-7.89	1.42	1.52
4	5-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	5-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	6-H	371	LYS	CA-C	-7.89	1.42	1.52
4	6-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	6-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	7-H	371	LYS	CA-C	-7.89	1.42	1.52
4	7-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	7-R	443	HIS	CA-CB	-7.89	1.40	1.53
6	8-H	371	LYS	CA-C	-7.89	1.42	1.52
4	8-L	443	HIS	CA-CB	-7.89	1.40	1.53
4	8-R	443	HIS	CA-CB	-7.89	1.40	1.53
5	1-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	2-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	3-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	4-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	5-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	6-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	7-Y	302	GLN	N-CA	-7.88	1.36	1.46
5	8-Y	302	GLN	N-CA	-7.88	1.36	1.46
4	1-L	473	GLY	CA-C	-7.88	1.43	1.52
4	2-L	473	GLY	CA-C	-7.88	1.43	1.52
4	3-L	473	GLY	CA-C	-7.88	1.43	1.52
4	4-L	473	GLY	CA-C	-7.88	1.43	1.52
4	5-L	473	GLY	CA-C	-7.88	1.43	1.52
4	6-L	473	GLY	CA-C	-7.88	1.43	1.52
4	7-L	473	GLY	CA-C	-7.88	1.43	1.52
4	8-L	473	GLY	CA-C	-7.88	1.43	1.52
4	1-X	443	HIS	CA-CB	-7.88	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	443	HIS	CA-CB	-7.88	1.40	1.53
4	3-X	443	HIS	CA-CB	-7.88	1.40	1.53
4	4-X	443	HIS	CA-CB	-7.88	1.40	1.53
4	5-X	443	HIS	CA-CB	-7.88	1.40	1.53
4	6-X	443	HIS	CA-CB	-7.88	1.40	1.53
4	7-X	443	HIS	CA-CB	-7.88	1.40	1.53
4	8-X	443	HIS	CA-CB	-7.88	1.40	1.53
3	1-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	2-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	3-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	4-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	5-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	6-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	7-D	1473	TYR	N-CA	-7.87	1.36	1.46
3	8-D	1473	TYR	N-CA	-7.87	1.36	1.46
4	1-R	473	GLY	CA-C	-7.87	1.43	1.52
4	2-R	473	GLY	CA-C	-7.87	1.43	1.52
4	3-R	473	GLY	CA-C	-7.87	1.43	1.52
4	4-R	473	GLY	CA-C	-7.87	1.43	1.52
4	5-R	473	GLY	CA-C	-7.87	1.43	1.52
4	6-R	473	GLY	CA-C	-7.87	1.43	1.52
4	7-R	473	GLY	CA-C	-7.87	1.43	1.52
4	8-R	473	GLY	CA-C	-7.87	1.43	1.52
4	1-F	323	ILE	N-CA	-7.87	1.39	1.46
4	1-F	487	ASP	C-N	7.87	1.43	1.33
4	2-F	323	ILE	N-CA	-7.87	1.39	1.46
4	2-F	487	ASP	C-N	7.87	1.43	1.33
4	3-F	323	ILE	N-CA	-7.87	1.39	1.46
4	3-F	487	ASP	C-N	7.87	1.43	1.33
4	4-F	323	ILE	N-CA	-7.87	1.39	1.46
4	4-F	487	ASP	C-N	7.87	1.43	1.33
4	5-F	323	ILE	N-CA	-7.87	1.39	1.46
4	5-F	487	ASP	C-N	7.87	1.43	1.33
4	6-F	323	ILE	N-CA	-7.87	1.39	1.46
4	6-F	487	ASP	C-N	7.87	1.43	1.33
4	7-F	323	ILE	N-CA	-7.87	1.39	1.46
4	7-F	487	ASP	C-N	7.87	1.43	1.33
4	8-F	323	ILE	N-CA	-7.87	1.39	1.46
4	8-F	487	ASP	C-N	7.87	1.43	1.33
5	1-M	302	GLN	N-CA	-7.86	1.36	1.46
5	2-M	302	GLN	N-CA	-7.86	1.36	1.46
5	3-M	302	GLN	N-CA	-7.86	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	302	GLN	N-CA	-7.86	1.36	1.46
5	5-M	302	GLN	N-CA	-7.86	1.36	1.46
5	6-M	302	GLN	N-CA	-7.86	1.36	1.46
5	7-M	302	GLN	N-CA	-7.86	1.36	1.46
5	8-M	302	GLN	N-CA	-7.86	1.36	1.46
4	1-R	323	ILE	N-CA	-7.86	1.39	1.46
4	2-R	323	ILE	N-CA	-7.86	1.39	1.46
4	3-R	323	ILE	N-CA	-7.86	1.39	1.46
4	4-R	323	ILE	N-CA	-7.86	1.39	1.46
4	5-R	323	ILE	N-CA	-7.86	1.39	1.46
4	6-R	323	ILE	N-CA	-7.86	1.39	1.46
4	7-R	323	ILE	N-CA	-7.86	1.39	1.46
4	8-R	323	ILE	N-CA	-7.86	1.39	1.46
3	1-D	1449	TRP	N-CA	7.86	1.56	1.46
3	2-D	1449	TRP	N-CA	7.86	1.56	1.46
3	3-D	1449	TRP	N-CA	7.86	1.56	1.46
3	4-D	1449	TRP	N-CA	7.86	1.56	1.46
3	5-D	1449	TRP	N-CA	7.86	1.56	1.46
3	6-D	1449	TRP	N-CA	7.86	1.56	1.46
3	7-D	1449	TRP	N-CA	7.86	1.56	1.46
3	8-D	1449	TRP	N-CA	7.86	1.56	1.46
5	1-S	377	ASN	CA-C	-7.85	1.42	1.52
5	2-S	377	ASN	CA-C	-7.85	1.42	1.52
5	3-S	377	ASN	CA-C	-7.85	1.42	1.52
5	4-S	377	ASN	CA-C	-7.85	1.42	1.52
5	5-S	377	ASN	CA-C	-7.85	1.42	1.52
5	6-S	377	ASN	CA-C	-7.85	1.42	1.52
5	7-S	377	ASN	CA-C	-7.85	1.42	1.52
5	8-S	377	ASN	CA-C	-7.85	1.42	1.52
4	1-L	323	ILE	N-CA	-7.85	1.39	1.46
3	1-V	1449	TRP	N-CA	7.85	1.56	1.46
4	2-L	323	ILE	N-CA	-7.85	1.39	1.46
3	2-V	1449	TRP	N-CA	7.85	1.56	1.46
4	3-L	323	ILE	N-CA	-7.85	1.39	1.46
3	3-V	1449	TRP	N-CA	7.85	1.56	1.46
4	4-L	323	ILE	N-CA	-7.85	1.39	1.46
3	4-V	1449	TRP	N-CA	7.85	1.56	1.46
4	5-L	323	ILE	N-CA	-7.85	1.39	1.46
3	5-V	1449	TRP	N-CA	7.85	1.56	1.46
4	6-L	323	ILE	N-CA	-7.85	1.39	1.46
3	6-V	1449	TRP	N-CA	7.85	1.56	1.46
4	7-L	323	ILE	N-CA	-7.85	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-V	1449	TRP	N-CA	7.85	1.56	1.46
4	8-L	323	ILE	N-CA	-7.85	1.39	1.46
3	8-V	1449	TRP	N-CA	7.85	1.56	1.46
4	1-R	487	ASP	C-N	7.85	1.43	1.33
4	2-R	487	ASP	C-N	7.85	1.43	1.33
4	3-R	487	ASP	C-N	7.85	1.43	1.33
4	4-R	487	ASP	C-N	7.85	1.43	1.33
4	5-R	487	ASP	C-N	7.85	1.43	1.33
4	6-R	487	ASP	C-N	7.85	1.43	1.33
4	7-R	487	ASP	C-N	7.85	1.43	1.33
4	8-R	487	ASP	C-N	7.85	1.43	1.33
6	1-N	371	LYS	CA-C	-7.84	1.42	1.52
6	2-N	371	LYS	CA-C	-7.84	1.42	1.52
6	3-N	371	LYS	CA-C	-7.84	1.42	1.52
6	4-N	371	LYS	CA-C	-7.84	1.42	1.52
6	5-N	371	LYS	CA-C	-7.84	1.42	1.52
6	6-N	371	LYS	CA-C	-7.84	1.42	1.52
6	7-N	371	LYS	CA-C	-7.84	1.42	1.52
6	8-N	371	LYS	CA-C	-7.84	1.42	1.52
4	1-X	323	ILE	N-CA	-7.84	1.39	1.46
4	2-X	323	ILE	N-CA	-7.84	1.39	1.46
4	3-X	323	ILE	N-CA	-7.84	1.39	1.46
4	4-X	323	ILE	N-CA	-7.84	1.39	1.46
4	5-X	323	ILE	N-CA	-7.84	1.39	1.46
4	6-X	323	ILE	N-CA	-7.84	1.39	1.46
4	7-X	323	ILE	N-CA	-7.84	1.39	1.46
4	8-X	323	ILE	N-CA	-7.84	1.39	1.46
5	1-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	2-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	3-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	4-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	5-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	6-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	7-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	8-Y	377	ASN	CA-C	-7.84	1.42	1.52
5	1-S	302	GLN	N-CA	-7.83	1.36	1.46
5	2-S	302	GLN	N-CA	-7.83	1.36	1.46
5	3-S	302	GLN	N-CA	-7.83	1.36	1.46
5	4-S	302	GLN	N-CA	-7.83	1.36	1.46
5	5-S	302	GLN	N-CA	-7.83	1.36	1.46
5	6-S	302	GLN	N-CA	-7.83	1.36	1.46
5	7-S	302	GLN	N-CA	-7.83	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	302	GLN	N-CA	-7.83	1.36	1.46
6	1-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	2-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	3-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	4-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	5-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	6-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	7-Z	371	LYS	CA-C	-7.83	1.42	1.52
6	8-Z	371	LYS	CA-C	-7.83	1.42	1.52
3	1-J	1449	TRP	N-CA	7.82	1.56	1.46
3	2-J	1449	TRP	N-CA	7.82	1.56	1.46
3	3-J	1449	TRP	N-CA	7.82	1.56	1.46
3	4-J	1449	TRP	N-CA	7.82	1.56	1.46
3	5-J	1449	TRP	N-CA	7.82	1.56	1.46
3	6-J	1449	TRP	N-CA	7.82	1.56	1.46
3	7-J	1449	TRP	N-CA	7.82	1.56	1.46
3	8-J	1449	TRP	N-CA	7.82	1.56	1.46
5	1-M	377	ASN	CA-C	-7.81	1.42	1.52
5	2-M	377	ASN	CA-C	-7.81	1.42	1.52
5	3-M	377	ASN	CA-C	-7.81	1.42	1.52
5	4-M	377	ASN	CA-C	-7.81	1.42	1.52
5	5-M	377	ASN	CA-C	-7.81	1.42	1.52
5	6-M	377	ASN	CA-C	-7.81	1.42	1.52
5	7-M	377	ASN	CA-C	-7.81	1.42	1.52
5	8-M	377	ASN	CA-C	-7.81	1.42	1.52
5	1-G	377	ASN	CA-C	-7.80	1.42	1.52
6	1-H	408	SER	CA-CB	7.80	1.65	1.53
5	2-G	377	ASN	CA-C	-7.80	1.42	1.52
6	2-H	408	SER	CA-CB	7.80	1.65	1.53
5	3-G	377	ASN	CA-C	-7.80	1.42	1.52
6	3-H	408	SER	CA-CB	7.80	1.65	1.53
5	4-G	377	ASN	CA-C	-7.80	1.42	1.52
6	4-H	408	SER	CA-CB	7.80	1.65	1.53
5	5-G	377	ASN	CA-C	-7.80	1.42	1.52
6	5-H	408	SER	CA-CB	7.80	1.65	1.53
5	6-G	377	ASN	CA-C	-7.80	1.42	1.52
6	6-H	408	SER	CA-CB	7.80	1.65	1.53
5	7-G	377	ASN	CA-C	-7.80	1.42	1.52
6	7-H	408	SER	CA-CB	7.80	1.65	1.53
5	8-G	377	ASN	CA-C	-7.80	1.42	1.52
6	8-H	408	SER	CA-CB	7.80	1.65	1.53
3	1-D	1510	GLN	CA-C	-7.80	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-G	302	GLN	N-CA	-7.80	1.37	1.46
3	2-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	2-G	302	GLN	N-CA	-7.80	1.37	1.46
3	3-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	3-G	302	GLN	N-CA	-7.80	1.37	1.46
3	4-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	4-G	302	GLN	N-CA	-7.80	1.37	1.46
3	5-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	5-G	302	GLN	N-CA	-7.80	1.37	1.46
3	6-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	6-G	302	GLN	N-CA	-7.80	1.37	1.46
3	7-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	7-G	302	GLN	N-CA	-7.80	1.37	1.46
3	8-D	1510	GLN	CA-C	-7.80	1.42	1.52
5	8-G	302	GLN	N-CA	-7.80	1.37	1.46
6	1-T	408	SER	CA-CB	7.80	1.65	1.53
6	2-T	408	SER	CA-CB	7.80	1.65	1.53
6	3-T	408	SER	CA-CB	7.80	1.65	1.53
6	4-T	408	SER	CA-CB	7.80	1.65	1.53
6	5-T	408	SER	CA-CB	7.80	1.65	1.53
6	6-T	408	SER	CA-CB	7.80	1.65	1.53
6	7-T	408	SER	CA-CB	7.80	1.65	1.53
6	8-T	408	SER	CA-CB	7.80	1.65	1.53
5	1-Y	322	ALA	CA-C	7.79	1.62	1.52
5	2-Y	322	ALA	CA-C	7.79	1.62	1.52
5	3-Y	322	ALA	CA-C	7.79	1.62	1.52
5	4-Y	322	ALA	CA-C	7.79	1.62	1.52
5	5-Y	322	ALA	CA-C	7.79	1.62	1.52
5	6-Y	322	ALA	CA-C	7.79	1.62	1.52
5	7-Y	322	ALA	CA-C	7.79	1.62	1.52
5	8-Y	322	ALA	CA-C	7.79	1.62	1.52
6	1-N	408	SER	CA-CB	7.78	1.65	1.53
6	2-N	408	SER	CA-CB	7.78	1.65	1.53
6	3-N	408	SER	CA-CB	7.78	1.65	1.53
6	4-N	408	SER	CA-CB	7.78	1.65	1.53
6	5-N	408	SER	CA-CB	7.78	1.65	1.53
6	6-N	408	SER	CA-CB	7.78	1.65	1.53
6	7-N	408	SER	CA-CB	7.78	1.65	1.53
6	8-N	408	SER	CA-CB	7.78	1.65	1.53
6	1-Z	408	SER	CA-CB	7.78	1.65	1.53
6	2-Z	408	SER	CA-CB	7.78	1.65	1.53
6	3-Z	408	SER	CA-CB	7.78	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	408	SER	CA-CB	7.78	1.65	1.53
6	5-Z	408	SER	CA-CB	7.78	1.65	1.53
6	6-Z	408	SER	CA-CB	7.78	1.65	1.53
6	7-Z	408	SER	CA-CB	7.78	1.65	1.53
6	8-Z	408	SER	CA-CB	7.78	1.65	1.53
5	1-G	322	ALA	CA-C	7.77	1.62	1.52
5	2-G	322	ALA	CA-C	7.77	1.62	1.52
5	3-G	322	ALA	CA-C	7.77	1.62	1.52
5	4-G	322	ALA	CA-C	7.77	1.62	1.52
5	5-G	322	ALA	CA-C	7.77	1.62	1.52
5	6-G	322	ALA	CA-C	7.77	1.62	1.52
5	7-G	322	ALA	CA-C	7.77	1.62	1.52
5	8-G	322	ALA	CA-C	7.77	1.62	1.52
3	1-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	2-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	3-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	4-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	5-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	6-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	7-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	8-J	1510	GLN	CA-C	-7.76	1.42	1.52
3	1-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	2-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	3-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	4-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	5-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	6-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	7-P	1510	GLN	CA-C	-7.76	1.42	1.52
3	8-P	1510	GLN	CA-C	-7.76	1.42	1.52
5	1-S	322	ALA	CA-C	7.74	1.62	1.52
5	2-S	322	ALA	CA-C	7.74	1.62	1.52
5	3-S	322	ALA	CA-C	7.74	1.62	1.52
5	4-S	322	ALA	CA-C	7.74	1.62	1.52
5	5-S	322	ALA	CA-C	7.74	1.62	1.52
5	6-S	322	ALA	CA-C	7.74	1.62	1.52
5	7-S	322	ALA	CA-C	7.74	1.62	1.52
5	8-S	322	ALA	CA-C	7.74	1.62	1.52
5	1-M	322	ALA	CA-C	7.73	1.62	1.52
5	2-M	322	ALA	CA-C	7.73	1.62	1.52
5	3-M	322	ALA	CA-C	7.73	1.62	1.52
5	4-M	322	ALA	CA-C	7.73	1.62	1.52
5	5-M	322	ALA	CA-C	7.73	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	322	ALA	CA-C	7.73	1.62	1.52
5	7-M	322	ALA	CA-C	7.73	1.62	1.52
5	8-M	322	ALA	CA-C	7.73	1.62	1.52
4	1-L	460	LEU	CA-CB	7.71	1.66	1.53
4	2-L	460	LEU	CA-CB	7.71	1.66	1.53
4	3-L	460	LEU	CA-CB	7.71	1.66	1.53
4	4-L	460	LEU	CA-CB	7.71	1.66	1.53
4	5-L	460	LEU	CA-CB	7.71	1.66	1.53
4	6-L	460	LEU	CA-CB	7.71	1.66	1.53
4	7-L	460	LEU	CA-CB	7.71	1.66	1.53
4	8-L	460	LEU	CA-CB	7.71	1.66	1.53
5	1-S	342	PRO	C-N	7.69	1.44	1.33
5	1-S	348	ILE	N-CA	7.69	1.55	1.46
5	2-S	342	PRO	C-N	7.69	1.44	1.33
5	2-S	348	ILE	N-CA	7.69	1.55	1.46
5	3-S	342	PRO	C-N	7.69	1.44	1.33
5	3-S	348	ILE	N-CA	7.69	1.55	1.46
5	4-S	342	PRO	C-N	7.69	1.44	1.33
5	4-S	348	ILE	N-CA	7.69	1.55	1.46
5	5-S	342	PRO	C-N	7.69	1.44	1.33
5	5-S	348	ILE	N-CA	7.69	1.55	1.46
5	6-S	342	PRO	C-N	7.69	1.44	1.33
5	6-S	348	ILE	N-CA	7.69	1.55	1.46
5	7-S	342	PRO	C-N	7.69	1.44	1.33
5	7-S	348	ILE	N-CA	7.69	1.55	1.46
5	8-S	342	PRO	C-N	7.69	1.44	1.33
5	8-S	348	ILE	N-CA	7.69	1.55	1.46
5	1-M	342	PRO	C-N	7.69	1.44	1.33
5	2-M	342	PRO	C-N	7.69	1.44	1.33
5	3-M	342	PRO	C-N	7.69	1.44	1.33
5	4-M	342	PRO	C-N	7.69	1.44	1.33
5	5-M	342	PRO	C-N	7.69	1.44	1.33
5	6-M	342	PRO	C-N	7.69	1.44	1.33
5	7-M	342	PRO	C-N	7.69	1.44	1.33
5	8-M	342	PRO	C-N	7.69	1.44	1.33
4	1-X	460	LEU	CA-CB	7.68	1.66	1.53
4	2-X	460	LEU	CA-CB	7.68	1.66	1.53
4	3-X	460	LEU	CA-CB	7.68	1.66	1.53
4	4-X	460	LEU	CA-CB	7.68	1.66	1.53
4	5-X	460	LEU	CA-CB	7.68	1.66	1.53
4	6-X	460	LEU	CA-CB	7.68	1.66	1.53
4	7-X	460	LEU	CA-CB	7.68	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	460	LEU	CA-CB	7.68	1.66	1.53
4	1-F	460	LEU	CA-CB	7.68	1.66	1.53
4	2-F	460	LEU	CA-CB	7.68	1.66	1.53
4	3-F	460	LEU	CA-CB	7.68	1.66	1.53
4	4-F	460	LEU	CA-CB	7.68	1.66	1.53
4	5-F	460	LEU	CA-CB	7.68	1.66	1.53
4	6-F	460	LEU	CA-CB	7.68	1.66	1.53
4	7-F	460	LEU	CA-CB	7.68	1.66	1.53
4	8-F	460	LEU	CA-CB	7.68	1.66	1.53
5	1-G	348	ILE	N-CA	7.68	1.55	1.46
5	2-G	348	ILE	N-CA	7.68	1.55	1.46
5	3-G	348	ILE	N-CA	7.68	1.55	1.46
5	4-G	348	ILE	N-CA	7.68	1.55	1.46
5	5-G	348	ILE	N-CA	7.68	1.55	1.46
5	6-G	348	ILE	N-CA	7.68	1.55	1.46
5	7-G	348	ILE	N-CA	7.68	1.55	1.46
5	8-G	348	ILE	N-CA	7.68	1.55	1.46
5	1-M	348	ILE	N-CA	7.67	1.55	1.46
5	2-M	348	ILE	N-CA	7.67	1.55	1.46
5	3-M	348	ILE	N-CA	7.67	1.55	1.46
5	4-M	348	ILE	N-CA	7.67	1.55	1.46
5	5-M	348	ILE	N-CA	7.67	1.55	1.46
5	6-M	348	ILE	N-CA	7.67	1.55	1.46
5	7-M	348	ILE	N-CA	7.67	1.55	1.46
5	8-M	348	ILE	N-CA	7.67	1.55	1.46
5	1-Y	342	PRO	C-N	7.66	1.44	1.33
5	2-Y	342	PRO	C-N	7.66	1.44	1.33
5	3-Y	342	PRO	C-N	7.66	1.44	1.33
5	4-Y	342	PRO	C-N	7.66	1.44	1.33
5	5-Y	342	PRO	C-N	7.66	1.44	1.33
5	6-Y	342	PRO	C-N	7.66	1.44	1.33
5	7-Y	342	PRO	C-N	7.66	1.44	1.33
5	8-Y	342	PRO	C-N	7.66	1.44	1.33
5	1-G	342	PRO	C-N	7.66	1.44	1.33
5	2-G	342	PRO	C-N	7.66	1.44	1.33
5	3-G	342	PRO	C-N	7.66	1.44	1.33
5	4-G	342	PRO	C-N	7.66	1.44	1.33
5	5-G	342	PRO	C-N	7.66	1.44	1.33
5	6-G	342	PRO	C-N	7.66	1.44	1.33
5	7-G	342	PRO	C-N	7.66	1.44	1.33
5	8-G	342	PRO	C-N	7.66	1.44	1.33
4	1-X	486	GLU	CA-C	7.65	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	486	GLU	CA-C	7.65	1.62	1.52
4	3-X	486	GLU	CA-C	7.65	1.62	1.52
4	4-X	486	GLU	CA-C	7.65	1.62	1.52
4	5-X	486	GLU	CA-C	7.65	1.62	1.52
4	6-X	486	GLU	CA-C	7.65	1.62	1.52
4	7-X	486	GLU	CA-C	7.65	1.62	1.52
4	8-X	486	GLU	CA-C	7.65	1.62	1.52
4	1-L	486	GLU	CA-C	7.65	1.62	1.52
4	2-L	486	GLU	CA-C	7.65	1.62	1.52
4	3-L	486	GLU	CA-C	7.65	1.62	1.52
4	4-L	486	GLU	CA-C	7.65	1.62	1.52
4	5-L	486	GLU	CA-C	7.65	1.62	1.52
4	6-L	486	GLU	CA-C	7.65	1.62	1.52
4	7-L	486	GLU	CA-C	7.65	1.62	1.52
4	8-L	486	GLU	CA-C	7.65	1.62	1.52
3	1-P	1491	ILE	C-O	7.64	1.32	1.24
5	1-Y	348	ILE	N-CA	7.64	1.55	1.46
3	2-P	1491	ILE	C-O	7.64	1.32	1.24
5	2-Y	348	ILE	N-CA	7.64	1.55	1.46
3	3-P	1491	ILE	C-O	7.64	1.32	1.24
5	3-Y	348	ILE	N-CA	7.64	1.55	1.46
3	4-P	1491	ILE	C-O	7.64	1.32	1.24
5	4-Y	348	ILE	N-CA	7.64	1.55	1.46
3	5-P	1491	ILE	C-O	7.64	1.32	1.24
5	5-Y	348	ILE	N-CA	7.64	1.55	1.46
3	6-P	1491	ILE	C-O	7.64	1.32	1.24
5	6-Y	348	ILE	N-CA	7.64	1.55	1.46
3	7-P	1491	ILE	C-O	7.64	1.32	1.24
5	7-Y	348	ILE	N-CA	7.64	1.55	1.46
3	8-P	1491	ILE	C-O	7.64	1.32	1.24
5	8-Y	348	ILE	N-CA	7.64	1.55	1.46
4	1-R	460	LEU	CA-CB	7.64	1.66	1.53
4	2-R	460	LEU	CA-CB	7.64	1.66	1.53
4	3-R	460	LEU	CA-CB	7.64	1.66	1.53
4	4-R	460	LEU	CA-CB	7.64	1.66	1.53
4	5-R	460	LEU	CA-CB	7.64	1.66	1.53
4	6-R	460	LEU	CA-CB	7.64	1.66	1.53
4	7-R	460	LEU	CA-CB	7.64	1.66	1.53
4	8-R	460	LEU	CA-CB	7.64	1.66	1.53
4	1-L	434	LEU	N-CA	-7.63	1.37	1.46
4	1-X	434	LEU	N-CA	-7.63	1.37	1.46
4	2-L	434	LEU	N-CA	-7.63	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	434	LEU	N-CA	-7.63	1.37	1.46
4	3-L	434	LEU	N-CA	-7.63	1.37	1.46
4	3-X	434	LEU	N-CA	-7.63	1.37	1.46
4	4-L	434	LEU	N-CA	-7.63	1.37	1.46
4	4-X	434	LEU	N-CA	-7.63	1.37	1.46
4	5-L	434	LEU	N-CA	-7.63	1.37	1.46
4	5-X	434	LEU	N-CA	-7.63	1.37	1.46
4	6-L	434	LEU	N-CA	-7.63	1.37	1.46
4	6-X	434	LEU	N-CA	-7.63	1.37	1.46
4	7-L	434	LEU	N-CA	-7.63	1.37	1.46
4	7-X	434	LEU	N-CA	-7.63	1.37	1.46
4	8-L	434	LEU	N-CA	-7.63	1.37	1.46
4	8-X	434	LEU	N-CA	-7.63	1.37	1.46
4	1-F	434	LEU	N-CA	-7.63	1.37	1.46
3	1-J	1491	ILE	C-O	7.63	1.32	1.24
4	2-F	434	LEU	N-CA	-7.63	1.37	1.46
3	2-J	1491	ILE	C-O	7.63	1.32	1.24
4	3-F	434	LEU	N-CA	-7.63	1.37	1.46
3	3-J	1491	ILE	C-O	7.63	1.32	1.24
4	4-F	434	LEU	N-CA	-7.63	1.37	1.46
3	4-J	1491	ILE	C-O	7.63	1.32	1.24
4	5-F	434	LEU	N-CA	-7.63	1.37	1.46
3	5-J	1491	ILE	C-O	7.63	1.32	1.24
4	6-F	434	LEU	N-CA	-7.63	1.37	1.46
3	6-J	1491	ILE	C-O	7.63	1.32	1.24
4	7-F	434	LEU	N-CA	-7.63	1.37	1.46
3	7-J	1491	ILE	C-O	7.63	1.32	1.24
4	8-F	434	LEU	N-CA	-7.63	1.37	1.46
3	8-J	1491	ILE	C-O	7.63	1.32	1.24
4	1-F	486	GLU	CA-C	7.62	1.62	1.52
4	2-F	486	GLU	CA-C	7.62	1.62	1.52
4	3-F	486	GLU	CA-C	7.62	1.62	1.52
4	4-F	486	GLU	CA-C	7.62	1.62	1.52
4	5-F	486	GLU	CA-C	7.62	1.62	1.52
4	6-F	486	GLU	CA-C	7.62	1.62	1.52
4	7-F	486	GLU	CA-C	7.62	1.62	1.52
4	8-F	486	GLU	CA-C	7.62	1.62	1.52
4	1-R	434	LEU	N-CA	-7.61	1.37	1.46
4	2-R	434	LEU	N-CA	-7.61	1.37	1.46
4	3-R	434	LEU	N-CA	-7.61	1.37	1.46
4	4-R	434	LEU	N-CA	-7.61	1.37	1.46
4	5-R	434	LEU	N-CA	-7.61	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	434	LEU	N-CA	-7.61	1.37	1.46
4	7-R	434	LEU	N-CA	-7.61	1.37	1.46
4	8-R	434	LEU	N-CA	-7.61	1.37	1.46
3	1-V	1491	ILE	C-O	7.61	1.32	1.24
3	2-V	1491	ILE	C-O	7.61	1.32	1.24
3	3-V	1491	ILE	C-O	7.61	1.32	1.24
3	4-V	1491	ILE	C-O	7.61	1.32	1.24
3	5-V	1491	ILE	C-O	7.61	1.32	1.24
3	6-V	1491	ILE	C-O	7.61	1.32	1.24
3	7-V	1491	ILE	C-O	7.61	1.32	1.24
3	8-V	1491	ILE	C-O	7.61	1.32	1.24
6	1-Z	468	SER	N-CA	7.59	1.56	1.46
6	2-Z	468	SER	N-CA	7.59	1.56	1.46
6	3-Z	468	SER	N-CA	7.59	1.56	1.46
6	4-Z	468	SER	N-CA	7.59	1.56	1.46
6	5-Z	468	SER	N-CA	7.59	1.56	1.46
6	6-Z	468	SER	N-CA	7.59	1.56	1.46
6	7-Z	468	SER	N-CA	7.59	1.56	1.46
6	8-Z	468	SER	N-CA	7.59	1.56	1.46
6	1-N	468	SER	N-CA	7.58	1.56	1.46
4	1-R	486	GLU	CA-C	7.58	1.62	1.52
6	2-N	468	SER	N-CA	7.58	1.56	1.46
4	2-R	486	GLU	CA-C	7.58	1.62	1.52
6	3-N	468	SER	N-CA	7.58	1.56	1.46
4	3-R	486	GLU	CA-C	7.58	1.62	1.52
6	4-N	468	SER	N-CA	7.58	1.56	1.46
4	4-R	486	GLU	CA-C	7.58	1.62	1.52
6	5-N	468	SER	N-CA	7.58	1.56	1.46
4	5-R	486	GLU	CA-C	7.58	1.62	1.52
6	6-N	468	SER	N-CA	7.58	1.56	1.46
4	6-R	486	GLU	CA-C	7.58	1.62	1.52
6	7-N	468	SER	N-CA	7.58	1.56	1.46
4	7-R	486	GLU	CA-C	7.58	1.62	1.52
6	8-N	468	SER	N-CA	7.58	1.56	1.46
4	8-R	486	GLU	CA-C	7.58	1.62	1.52
4	1-R	398	LYS	C-O	-7.57	1.13	1.24
4	2-R	398	LYS	C-O	-7.57	1.13	1.24
4	3-R	398	LYS	C-O	-7.57	1.13	1.24
4	4-R	398	LYS	C-O	-7.57	1.13	1.24
4	5-R	398	LYS	C-O	-7.57	1.13	1.24
4	6-R	398	LYS	C-O	-7.57	1.13	1.24
4	7-R	398	LYS	C-O	-7.57	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	398	LYS	C-O	-7.57	1.13	1.24
4	1-F	348	GLN	CA-C	-7.57	1.43	1.52
4	2-F	348	GLN	CA-C	-7.57	1.43	1.52
4	3-F	348	GLN	CA-C	-7.57	1.43	1.52
4	4-F	348	GLN	CA-C	-7.57	1.43	1.52
4	5-F	348	GLN	CA-C	-7.57	1.43	1.52
4	6-F	348	GLN	CA-C	-7.57	1.43	1.52
4	7-F	348	GLN	CA-C	-7.57	1.43	1.52
4	8-F	348	GLN	CA-C	-7.57	1.43	1.52
3	1-D	1491	ILE	C-O	7.56	1.32	1.24
3	2-D	1491	ILE	C-O	7.56	1.32	1.24
3	3-D	1491	ILE	C-O	7.56	1.32	1.24
3	4-D	1491	ILE	C-O	7.56	1.32	1.24
3	5-D	1491	ILE	C-O	7.56	1.32	1.24
3	6-D	1491	ILE	C-O	7.56	1.32	1.24
3	7-D	1491	ILE	C-O	7.56	1.32	1.24
3	8-D	1491	ILE	C-O	7.56	1.32	1.24
4	1-F	398	LYS	C-O	-7.56	1.13	1.24
4	2-F	398	LYS	C-O	-7.56	1.13	1.24
4	3-F	398	LYS	C-O	-7.56	1.13	1.24
4	4-F	398	LYS	C-O	-7.56	1.13	1.24
4	5-F	398	LYS	C-O	-7.56	1.13	1.24
4	6-F	398	LYS	C-O	-7.56	1.13	1.24
4	7-F	398	LYS	C-O	-7.56	1.13	1.24
4	8-F	398	LYS	C-O	-7.56	1.13	1.24
4	1-L	348	GLN	CA-C	-7.55	1.43	1.52
4	1-X	398	LYS	C-O	-7.55	1.13	1.24
4	2-L	348	GLN	CA-C	-7.55	1.43	1.52
4	2-X	398	LYS	C-O	-7.55	1.13	1.24
4	3-L	348	GLN	CA-C	-7.55	1.43	1.52
4	3-X	398	LYS	C-O	-7.55	1.13	1.24
4	4-L	348	GLN	CA-C	-7.55	1.43	1.52
4	4-X	398	LYS	C-O	-7.55	1.13	1.24
4	5-L	348	GLN	CA-C	-7.55	1.43	1.52
4	5-X	398	LYS	C-O	-7.55	1.13	1.24
4	6-L	348	GLN	CA-C	-7.55	1.43	1.52
4	6-X	398	LYS	C-O	-7.55	1.13	1.24
4	7-L	348	GLN	CA-C	-7.55	1.43	1.52
4	7-X	398	LYS	C-O	-7.55	1.13	1.24
4	8-L	348	GLN	CA-C	-7.55	1.43	1.52
4	8-X	398	LYS	C-O	-7.55	1.13	1.24
4	1-L	398	LYS	C-O	-7.55	1.13	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	398	LYS	C-O	-7.55	1.13	1.24
4	3-L	398	LYS	C-O	-7.55	1.13	1.24
4	4-L	398	LYS	C-O	-7.55	1.13	1.24
4	5-L	398	LYS	C-O	-7.55	1.13	1.24
4	6-L	398	LYS	C-O	-7.55	1.13	1.24
4	7-L	398	LYS	C-O	-7.55	1.13	1.24
4	8-L	398	LYS	C-O	-7.55	1.13	1.24
4	1-X	348	GLN	CA-C	-7.54	1.43	1.52
4	2-X	348	GLN	CA-C	-7.54	1.43	1.52
4	3-X	348	GLN	CA-C	-7.54	1.43	1.52
4	4-X	348	GLN	CA-C	-7.54	1.43	1.52
4	5-X	348	GLN	CA-C	-7.54	1.43	1.52
4	6-X	348	GLN	CA-C	-7.54	1.43	1.52
4	7-X	348	GLN	CA-C	-7.54	1.43	1.52
4	8-X	348	GLN	CA-C	-7.54	1.43	1.52
5	1-G	331	THR	N-CA	7.53	1.54	1.46
6	1-H	468	SER	N-CA	7.53	1.56	1.46
5	2-G	331	THR	N-CA	7.53	1.54	1.46
6	2-H	468	SER	N-CA	7.53	1.56	1.46
5	3-G	331	THR	N-CA	7.53	1.54	1.46
6	3-H	468	SER	N-CA	7.53	1.56	1.46
5	4-G	331	THR	N-CA	7.53	1.54	1.46
6	4-H	468	SER	N-CA	7.53	1.56	1.46
5	5-G	331	THR	N-CA	7.53	1.54	1.46
6	5-H	468	SER	N-CA	7.53	1.56	1.46
5	6-G	331	THR	N-CA	7.53	1.54	1.46
6	6-H	468	SER	N-CA	7.53	1.56	1.46
5	7-G	331	THR	N-CA	7.53	1.54	1.46
6	7-H	468	SER	N-CA	7.53	1.56	1.46
5	8-G	331	THR	N-CA	7.53	1.54	1.46
6	8-H	468	SER	N-CA	7.53	1.56	1.46
6	1-T	468	SER	N-CA	7.52	1.56	1.46
6	2-T	468	SER	N-CA	7.52	1.56	1.46
6	3-T	468	SER	N-CA	7.52	1.56	1.46
6	4-T	468	SER	N-CA	7.52	1.56	1.46
6	5-T	468	SER	N-CA	7.52	1.56	1.46
6	6-T	468	SER	N-CA	7.52	1.56	1.46
6	7-T	468	SER	N-CA	7.52	1.56	1.46
6	8-T	468	SER	N-CA	7.52	1.56	1.46
4	1-R	348	GLN	CA-C	-7.52	1.43	1.52
5	1-S	325	ALA	C-O	7.52	1.33	1.24
4	2-R	348	GLN	CA-C	-7.52	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-S	325	ALA	C-O	7.52	1.33	1.24
4	3-R	348	GLN	CA-C	-7.52	1.43	1.52
5	3-S	325	ALA	C-O	7.52	1.33	1.24
4	4-R	348	GLN	CA-C	-7.52	1.43	1.52
5	4-S	325	ALA	C-O	7.52	1.33	1.24
4	5-R	348	GLN	CA-C	-7.52	1.43	1.52
5	5-S	325	ALA	C-O	7.52	1.33	1.24
4	6-R	348	GLN	CA-C	-7.52	1.43	1.52
5	6-S	325	ALA	C-O	7.52	1.33	1.24
4	7-R	348	GLN	CA-C	-7.52	1.43	1.52
5	7-S	325	ALA	C-O	7.52	1.33	1.24
4	8-R	348	GLN	CA-C	-7.52	1.43	1.52
5	8-S	325	ALA	C-O	7.52	1.33	1.24
5	1-G	376	ASN	CA-C	-7.51	1.43	1.52
5	2-G	376	ASN	CA-C	-7.51	1.43	1.52
5	3-G	376	ASN	CA-C	-7.51	1.43	1.52
5	4-G	376	ASN	CA-C	-7.51	1.43	1.52
5	5-G	376	ASN	CA-C	-7.51	1.43	1.52
5	6-G	376	ASN	CA-C	-7.51	1.43	1.52
5	7-G	376	ASN	CA-C	-7.51	1.43	1.52
5	8-G	376	ASN	CA-C	-7.51	1.43	1.52
5	1-S	253	GLN	CA-C	-7.50	1.43	1.52
5	2-S	253	GLN	CA-C	-7.50	1.43	1.52
5	3-S	253	GLN	CA-C	-7.50	1.43	1.52
5	4-S	253	GLN	CA-C	-7.50	1.43	1.52
5	5-S	253	GLN	CA-C	-7.50	1.43	1.52
5	6-S	253	GLN	CA-C	-7.50	1.43	1.52
5	7-S	253	GLN	CA-C	-7.50	1.43	1.52
5	8-S	253	GLN	CA-C	-7.50	1.43	1.52
5	1-M	331	THR	N-CA	7.50	1.54	1.46
4	1-X	303	GLY	CA-C	7.50	1.62	1.51
5	2-M	331	THR	N-CA	7.50	1.54	1.46
4	2-X	303	GLY	CA-C	7.50	1.62	1.51
5	3-M	331	THR	N-CA	7.50	1.54	1.46
4	3-X	303	GLY	CA-C	7.50	1.62	1.51
5	4-M	331	THR	N-CA	7.50	1.54	1.46
4	4-X	303	GLY	CA-C	7.50	1.62	1.51
5	5-M	331	THR	N-CA	7.50	1.54	1.46
4	5-X	303	GLY	CA-C	7.50	1.62	1.51
5	6-M	331	THR	N-CA	7.50	1.54	1.46
4	6-X	303	GLY	CA-C	7.50	1.62	1.51
5	7-M	331	THR	N-CA	7.50	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-X	303	GLY	CA-C	7.50	1.62	1.51
5	8-M	331	THR	N-CA	7.50	1.54	1.46
4	8-X	303	GLY	CA-C	7.50	1.62	1.51
5	1-G	325	ALA	C-O	7.50	1.33	1.24
5	2-G	325	ALA	C-O	7.50	1.33	1.24
5	3-G	325	ALA	C-O	7.50	1.33	1.24
5	4-G	325	ALA	C-O	7.50	1.33	1.24
5	5-G	325	ALA	C-O	7.50	1.33	1.24
5	6-G	325	ALA	C-O	7.50	1.33	1.24
5	7-G	325	ALA	C-O	7.50	1.33	1.24
5	8-G	325	ALA	C-O	7.50	1.33	1.24
5	1-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	2-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	3-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	4-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	5-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	6-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	7-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	8-Y	297	ALA	CA-C	-7.49	1.43	1.52
5	1-M	253	GLN	CA-C	-7.49	1.43	1.52
5	2-M	253	GLN	CA-C	-7.49	1.43	1.52
5	3-M	253	GLN	CA-C	-7.49	1.43	1.52
5	4-M	253	GLN	CA-C	-7.49	1.43	1.52
5	5-M	253	GLN	CA-C	-7.49	1.43	1.52
5	6-M	253	GLN	CA-C	-7.49	1.43	1.52
5	7-M	253	GLN	CA-C	-7.49	1.43	1.52
5	8-M	253	GLN	CA-C	-7.49	1.43	1.52
5	1-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	2-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	3-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	4-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	5-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	6-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	7-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	8-Y	366	GLU	N-CA	-7.49	1.36	1.46
5	1-G	253	GLN	CA-C	-7.49	1.43	1.52
5	1-M	325	ALA	C-O	7.49	1.33	1.24
5	2-G	253	GLN	CA-C	-7.49	1.43	1.52
5	2-M	325	ALA	C-O	7.49	1.33	1.24
5	3-G	253	GLN	CA-C	-7.49	1.43	1.52
5	3-M	325	ALA	C-O	7.49	1.33	1.24
5	4-G	253	GLN	CA-C	-7.49	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	325	ALA	C-O	7.49	1.33	1.24
5	5-G	253	GLN	CA-C	-7.49	1.43	1.52
5	5-M	325	ALA	C-O	7.49	1.33	1.24
5	6-G	253	GLN	CA-C	-7.49	1.43	1.52
5	6-M	325	ALA	C-O	7.49	1.33	1.24
5	7-G	253	GLN	CA-C	-7.49	1.43	1.52
5	7-M	325	ALA	C-O	7.49	1.33	1.24
5	8-G	253	GLN	CA-C	-7.49	1.43	1.52
5	8-M	325	ALA	C-O	7.49	1.33	1.24
3	1-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	1-S	331	THR	N-CA	7.48	1.54	1.46
3	2-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	2-S	331	THR	N-CA	7.48	1.54	1.46
3	3-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	3-S	331	THR	N-CA	7.48	1.54	1.46
3	4-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	4-S	331	THR	N-CA	7.48	1.54	1.46
3	5-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	5-S	331	THR	N-CA	7.48	1.54	1.46
3	6-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	6-S	331	THR	N-CA	7.48	1.54	1.46
3	7-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	7-S	331	THR	N-CA	7.48	1.54	1.46
3	8-P	1543	GLN	CA-C	-7.48	1.43	1.52
5	8-S	331	THR	N-CA	7.48	1.54	1.46
5	1-G	261	PHE	CA-C	7.48	1.62	1.52
6	1-Z	466	ASP	CA-C	7.48	1.62	1.52
5	2-G	261	PHE	CA-C	7.48	1.62	1.52
6	2-Z	466	ASP	CA-C	7.48	1.62	1.52
5	3-G	261	PHE	CA-C	7.48	1.62	1.52
6	3-Z	466	ASP	CA-C	7.48	1.62	1.52
5	4-G	261	PHE	CA-C	7.48	1.62	1.52
6	4-Z	466	ASP	CA-C	7.48	1.62	1.52
5	5-G	261	PHE	CA-C	7.48	1.62	1.52
6	5-Z	466	ASP	CA-C	7.48	1.62	1.52
5	6-G	261	PHE	CA-C	7.48	1.62	1.52
6	6-Z	466	ASP	CA-C	7.48	1.62	1.52
5	7-G	261	PHE	CA-C	7.48	1.62	1.52
6	7-Z	466	ASP	CA-C	7.48	1.62	1.52
5	8-G	261	PHE	CA-C	7.48	1.62	1.52
6	8-Z	466	ASP	CA-C	7.48	1.62	1.52
5	1-G	366	GLU	N-CA	-7.47	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-G	366	GLU	N-CA	-7.47	1.36	1.46
5	3-G	366	GLU	N-CA	-7.47	1.36	1.46
5	4-G	366	GLU	N-CA	-7.47	1.36	1.46
5	5-G	366	GLU	N-CA	-7.47	1.36	1.46
5	6-G	366	GLU	N-CA	-7.47	1.36	1.46
5	7-G	366	GLU	N-CA	-7.47	1.36	1.46
5	8-G	366	GLU	N-CA	-7.47	1.36	1.46
3	1-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	1-M	297	ALA	CA-C	-7.47	1.43	1.52
5	1-S	366	GLU	N-CA	-7.47	1.36	1.46
5	1-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	2-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	2-M	297	ALA	CA-C	-7.47	1.43	1.52
5	2-S	366	GLU	N-CA	-7.47	1.36	1.46
5	2-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	3-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	3-M	297	ALA	CA-C	-7.47	1.43	1.52
5	3-S	366	GLU	N-CA	-7.47	1.36	1.46
5	3-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	4-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	4-M	297	ALA	CA-C	-7.47	1.43	1.52
5	4-S	366	GLU	N-CA	-7.47	1.36	1.46
5	4-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	5-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	5-M	297	ALA	CA-C	-7.47	1.43	1.52
5	5-S	366	GLU	N-CA	-7.47	1.36	1.46
5	5-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	6-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	6-M	297	ALA	CA-C	-7.47	1.43	1.52
5	6-S	366	GLU	N-CA	-7.47	1.36	1.46
5	6-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	7-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	7-M	297	ALA	CA-C	-7.47	1.43	1.52
5	7-S	366	GLU	N-CA	-7.47	1.36	1.46
5	7-Y	376	ASN	CA-C	-7.47	1.43	1.52
3	8-J	1543	GLN	CA-C	-7.47	1.43	1.52
5	8-M	297	ALA	CA-C	-7.47	1.43	1.52
5	8-S	366	GLU	N-CA	-7.47	1.36	1.46
5	8-Y	376	ASN	CA-C	-7.47	1.43	1.52
6	1-H	489	ASP	CA-C	7.47	1.62	1.52
4	1-L	365	GLN	CA-C	-7.47	1.43	1.52
6	1-T	466	ASP	CA-C	7.47	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-H	489	ASP	CA-C	7.47	1.62	1.52
4	2-L	365	GLN	CA-C	-7.47	1.43	1.52
6	2-T	466	ASP	CA-C	7.47	1.62	1.52
6	3-H	489	ASP	CA-C	7.47	1.62	1.52
4	3-L	365	GLN	CA-C	-7.47	1.43	1.52
6	3-T	466	ASP	CA-C	7.47	1.62	1.52
6	4-H	489	ASP	CA-C	7.47	1.62	1.52
4	4-L	365	GLN	CA-C	-7.47	1.43	1.52
6	4-T	466	ASP	CA-C	7.47	1.62	1.52
6	5-H	489	ASP	CA-C	7.47	1.62	1.52
4	5-L	365	GLN	CA-C	-7.47	1.43	1.52
6	5-T	466	ASP	CA-C	7.47	1.62	1.52
6	6-H	489	ASP	CA-C	7.47	1.62	1.52
4	6-L	365	GLN	CA-C	-7.47	1.43	1.52
6	6-T	466	ASP	CA-C	7.47	1.62	1.52
6	7-H	489	ASP	CA-C	7.47	1.62	1.52
4	7-L	365	GLN	CA-C	-7.47	1.43	1.52
6	7-T	466	ASP	CA-C	7.47	1.62	1.52
6	8-H	489	ASP	CA-C	7.47	1.62	1.52
4	8-L	365	GLN	CA-C	-7.47	1.43	1.52
6	8-T	466	ASP	CA-C	7.47	1.62	1.52
5	1-Y	331	THR	N-CA	7.46	1.54	1.46
5	2-Y	331	THR	N-CA	7.46	1.54	1.46
5	3-Y	331	THR	N-CA	7.46	1.54	1.46
5	4-Y	331	THR	N-CA	7.46	1.54	1.46
5	5-Y	331	THR	N-CA	7.46	1.54	1.46
5	6-Y	331	THR	N-CA	7.46	1.54	1.46
5	7-Y	331	THR	N-CA	7.46	1.54	1.46
5	8-Y	331	THR	N-CA	7.46	1.54	1.46
5	1-M	376	ASN	CA-C	-7.46	1.43	1.52
5	1-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	2-M	376	ASN	CA-C	-7.46	1.43	1.52
5	2-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	3-M	376	ASN	CA-C	-7.46	1.43	1.52
5	3-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	4-M	376	ASN	CA-C	-7.46	1.43	1.52
5	4-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	5-M	376	ASN	CA-C	-7.46	1.43	1.52
5	5-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	6-M	376	ASN	CA-C	-7.46	1.43	1.52
5	6-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	7-M	376	ASN	CA-C	-7.46	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-Y	253	GLN	CA-C	-7.46	1.43	1.52
5	8-M	376	ASN	CA-C	-7.46	1.43	1.52
5	8-Y	253	GLN	CA-C	-7.46	1.43	1.52
6	1-H	466	ASP	CA-C	7.45	1.62	1.52
6	2-H	466	ASP	CA-C	7.45	1.62	1.52
6	3-H	466	ASP	CA-C	7.45	1.62	1.52
6	4-H	466	ASP	CA-C	7.45	1.62	1.52
6	5-H	466	ASP	CA-C	7.45	1.62	1.52
6	6-H	466	ASP	CA-C	7.45	1.62	1.52
6	7-H	466	ASP	CA-C	7.45	1.62	1.52
6	8-H	466	ASP	CA-C	7.45	1.62	1.52
3	1-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	2-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	3-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	4-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	5-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	6-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	7-V	1504	VAL	CA-C	-7.45	1.42	1.52
3	8-V	1504	VAL	CA-C	-7.45	1.42	1.52
5	1-M	261	PHE	CA-C	7.45	1.62	1.52
5	2-M	261	PHE	CA-C	7.45	1.62	1.52
5	3-M	261	PHE	CA-C	7.45	1.62	1.52
5	4-M	261	PHE	CA-C	7.45	1.62	1.52
5	5-M	261	PHE	CA-C	7.45	1.62	1.52
5	6-M	261	PHE	CA-C	7.45	1.62	1.52
5	7-M	261	PHE	CA-C	7.45	1.62	1.52
5	8-M	261	PHE	CA-C	7.45	1.62	1.52
5	1-Y	325	ALA	C-O	7.45	1.33	1.24
5	2-Y	325	ALA	C-O	7.45	1.33	1.24
5	3-Y	325	ALA	C-O	7.45	1.33	1.24
5	4-Y	325	ALA	C-O	7.45	1.33	1.24
5	5-Y	325	ALA	C-O	7.45	1.33	1.24
5	6-Y	325	ALA	C-O	7.45	1.33	1.24
5	7-Y	325	ALA	C-O	7.45	1.33	1.24
5	8-Y	325	ALA	C-O	7.45	1.33	1.24
4	1-L	303	GLY	CA-C	7.45	1.62	1.51
4	2-L	303	GLY	CA-C	7.45	1.62	1.51
4	3-L	303	GLY	CA-C	7.45	1.62	1.51
4	4-L	303	GLY	CA-C	7.45	1.62	1.51
4	5-L	303	GLY	CA-C	7.45	1.62	1.51
4	6-L	303	GLY	CA-C	7.45	1.62	1.51
4	7-L	303	GLY	CA-C	7.45	1.62	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	303	GLY	CA-C	7.45	1.62	1.51
4	1-F	365	GLN	CA-C	-7.45	1.43	1.52
4	2-F	365	GLN	CA-C	-7.45	1.43	1.52
4	3-F	365	GLN	CA-C	-7.45	1.43	1.52
4	4-F	365	GLN	CA-C	-7.45	1.43	1.52
4	5-F	365	GLN	CA-C	-7.45	1.43	1.52
4	6-F	365	GLN	CA-C	-7.45	1.43	1.52
4	7-F	365	GLN	CA-C	-7.45	1.43	1.52
4	8-F	365	GLN	CA-C	-7.45	1.43	1.52
3	1-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	1-R	492	GLU	CA-CB	7.44	1.66	1.53
3	2-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	2-R	492	GLU	CA-CB	7.44	1.66	1.53
3	3-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	3-R	492	GLU	CA-CB	7.44	1.66	1.53
3	4-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	4-R	492	GLU	CA-CB	7.44	1.66	1.53
3	5-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	5-R	492	GLU	CA-CB	7.44	1.66	1.53
3	6-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	6-R	492	GLU	CA-CB	7.44	1.66	1.53
3	7-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	7-R	492	GLU	CA-CB	7.44	1.66	1.53
3	8-D	1543	GLN	CA-C	-7.44	1.43	1.52
4	8-R	492	GLU	CA-CB	7.44	1.66	1.53
3	1-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	1-M	366	GLU	N-CA	-7.44	1.36	1.46
3	1-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	1-S	326	LEU	CA-CB	7.44	1.66	1.53
3	2-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	2-M	366	GLU	N-CA	-7.44	1.36	1.46
3	2-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	2-S	326	LEU	CA-CB	7.44	1.66	1.53
3	3-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	3-M	366	GLU	N-CA	-7.44	1.36	1.46
3	3-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	3-S	326	LEU	CA-CB	7.44	1.66	1.53
3	4-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	4-M	366	GLU	N-CA	-7.44	1.36	1.46
3	4-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	4-S	326	LEU	CA-CB	7.44	1.66	1.53
3	5-J	1504	VAL	CA-C	-7.44	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-M	366	GLU	N-CA	-7.44	1.36	1.46
3	5-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	5-S	326	LEU	CA-CB	7.44	1.66	1.53
3	6-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	6-M	366	GLU	N-CA	-7.44	1.36	1.46
3	6-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	6-S	326	LEU	CA-CB	7.44	1.66	1.53
3	7-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	7-M	366	GLU	N-CA	-7.44	1.36	1.46
3	7-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	7-S	326	LEU	CA-CB	7.44	1.66	1.53
3	8-J	1504	VAL	CA-C	-7.44	1.42	1.52
5	8-M	366	GLU	N-CA	-7.44	1.36	1.46
3	8-P	1504	VAL	CA-C	-7.44	1.42	1.52
5	8-S	326	LEU	CA-CB	7.44	1.66	1.53
5	1-Y	261	PHE	CA-C	7.43	1.62	1.52
5	2-Y	261	PHE	CA-C	7.43	1.62	1.52
5	3-Y	261	PHE	CA-C	7.43	1.62	1.52
5	4-Y	261	PHE	CA-C	7.43	1.62	1.52
5	5-Y	261	PHE	CA-C	7.43	1.62	1.52
5	6-Y	261	PHE	CA-C	7.43	1.62	1.52
5	7-Y	261	PHE	CA-C	7.43	1.62	1.52
5	8-Y	261	PHE	CA-C	7.43	1.62	1.52
3	1-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	1-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	2-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	2-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	3-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	3-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	4-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	4-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	5-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	5-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	6-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	6-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	7-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	7-V	1543	GLN	CA-C	-7.43	1.43	1.52
3	8-D	1504	VAL	CA-C	-7.43	1.42	1.52
3	8-V	1543	GLN	CA-C	-7.43	1.43	1.52
5	1-M	326	LEU	CA-CB	7.43	1.66	1.53
5	2-M	326	LEU	CA-CB	7.43	1.66	1.53
5	3-M	326	LEU	CA-CB	7.43	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-M	326	LEU	CA-CB	7.43	1.66	1.53
5	5-M	326	LEU	CA-CB	7.43	1.66	1.53
5	6-M	326	LEU	CA-CB	7.43	1.66	1.53
5	7-M	326	LEU	CA-CB	7.43	1.66	1.53
5	8-M	326	LEU	CA-CB	7.43	1.66	1.53
4	1-F	303	GLY	CA-C	7.43	1.62	1.51
4	2-F	303	GLY	CA-C	7.43	1.62	1.51
4	3-F	303	GLY	CA-C	7.43	1.62	1.51
4	4-F	303	GLY	CA-C	7.43	1.62	1.51
4	5-F	303	GLY	CA-C	7.43	1.62	1.51
4	6-F	303	GLY	CA-C	7.43	1.62	1.51
4	7-F	303	GLY	CA-C	7.43	1.62	1.51
4	8-F	303	GLY	CA-C	7.43	1.62	1.51
5	1-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	2-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	3-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	4-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	5-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	6-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	7-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	8-Y	326	LEU	CA-CB	7.43	1.66	1.53
5	1-S	376	ASN	CA-C	-7.42	1.43	1.52
5	2-S	376	ASN	CA-C	-7.42	1.43	1.52
5	3-S	376	ASN	CA-C	-7.42	1.43	1.52
5	4-S	376	ASN	CA-C	-7.42	1.43	1.52
5	5-S	376	ASN	CA-C	-7.42	1.43	1.52
5	6-S	376	ASN	CA-C	-7.42	1.43	1.52
5	7-S	376	ASN	CA-C	-7.42	1.43	1.52
5	8-S	376	ASN	CA-C	-7.42	1.43	1.52
6	1-N	390	ASP	CA-C	-7.42	1.43	1.52
5	1-S	261	PHE	CA-C	7.42	1.62	1.52
6	2-N	390	ASP	CA-C	-7.42	1.43	1.52
5	2-S	261	PHE	CA-C	7.42	1.62	1.52
6	3-N	390	ASP	CA-C	-7.42	1.43	1.52
5	3-S	261	PHE	CA-C	7.42	1.62	1.52
6	4-N	390	ASP	CA-C	-7.42	1.43	1.52
5	4-S	261	PHE	CA-C	7.42	1.62	1.52
6	5-N	390	ASP	CA-C	-7.42	1.43	1.52
5	5-S	261	PHE	CA-C	7.42	1.62	1.52
6	6-N	390	ASP	CA-C	-7.42	1.43	1.52
5	6-S	261	PHE	CA-C	7.42	1.62	1.52
6	7-N	390	ASP	CA-C	-7.42	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-S	261	PHE	CA-C	7.42	1.62	1.52
6	8-N	390	ASP	CA-C	-7.42	1.43	1.52
5	8-S	261	PHE	CA-C	7.42	1.62	1.52
4	1-X	365	GLN	CA-C	-7.42	1.43	1.52
4	2-X	365	GLN	CA-C	-7.42	1.43	1.52
4	3-X	365	GLN	CA-C	-7.42	1.43	1.52
4	4-X	365	GLN	CA-C	-7.42	1.43	1.52
4	5-X	365	GLN	CA-C	-7.42	1.43	1.52
4	6-X	365	GLN	CA-C	-7.42	1.43	1.52
4	7-X	365	GLN	CA-C	-7.42	1.43	1.52
4	8-X	365	GLN	CA-C	-7.42	1.43	1.52
4	1-R	365	GLN	CA-C	-7.42	1.43	1.52
4	2-R	365	GLN	CA-C	-7.42	1.43	1.52
4	3-R	365	GLN	CA-C	-7.42	1.43	1.52
4	4-R	365	GLN	CA-C	-7.42	1.43	1.52
4	5-R	365	GLN	CA-C	-7.42	1.43	1.52
4	6-R	365	GLN	CA-C	-7.42	1.43	1.52
4	7-R	365	GLN	CA-C	-7.42	1.43	1.52
4	8-R	365	GLN	CA-C	-7.42	1.43	1.52
4	1-R	303	GLY	CA-C	7.41	1.62	1.51
4	2-R	303	GLY	CA-C	7.41	1.62	1.51
4	3-R	303	GLY	CA-C	7.41	1.62	1.51
4	4-R	303	GLY	CA-C	7.41	1.62	1.51
4	5-R	303	GLY	CA-C	7.41	1.62	1.51
4	6-R	303	GLY	CA-C	7.41	1.62	1.51
4	7-R	303	GLY	CA-C	7.41	1.62	1.51
4	8-R	303	GLY	CA-C	7.41	1.62	1.51
5	1-G	297	ALA	CA-C	-7.41	1.43	1.52
5	2-G	297	ALA	CA-C	-7.41	1.43	1.52
5	3-G	297	ALA	CA-C	-7.41	1.43	1.52
5	4-G	297	ALA	CA-C	-7.41	1.43	1.52
5	5-G	297	ALA	CA-C	-7.41	1.43	1.52
5	6-G	297	ALA	CA-C	-7.41	1.43	1.52
5	7-G	297	ALA	CA-C	-7.41	1.43	1.52
5	8-G	297	ALA	CA-C	-7.41	1.43	1.52
6	1-N	466	ASP	CA-C	7.41	1.62	1.52
6	1-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	2-N	466	ASP	CA-C	7.41	1.62	1.52
6	2-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	3-N	466	ASP	CA-C	7.41	1.62	1.52
6	3-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	4-N	466	ASP	CA-C	7.41	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	5-N	466	ASP	CA-C	7.41	1.62	1.52
6	5-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	6-N	466	ASP	CA-C	7.41	1.62	1.52
6	6-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	7-N	466	ASP	CA-C	7.41	1.62	1.52
6	7-Z	390	ASP	CA-C	-7.41	1.43	1.52
6	8-N	466	ASP	CA-C	7.41	1.62	1.52
6	8-Z	390	ASP	CA-C	-7.41	1.43	1.52
4	1-F	492	GLU	CA-CB	7.40	1.66	1.53
2	1-O	11	GLN	CA-C	-7.40	1.43	1.52
4	1-X	492	GLU	CA-CB	7.40	1.66	1.53
4	2-F	492	GLU	CA-CB	7.40	1.66	1.53
2	2-O	11	GLN	CA-C	-7.40	1.43	1.52
4	2-X	492	GLU	CA-CB	7.40	1.66	1.53
4	3-F	492	GLU	CA-CB	7.40	1.66	1.53
2	3-O	11	GLN	CA-C	-7.40	1.43	1.52
4	3-X	492	GLU	CA-CB	7.40	1.66	1.53
4	4-F	492	GLU	CA-CB	7.40	1.66	1.53
2	4-O	11	GLN	CA-C	-7.40	1.43	1.52
4	4-X	492	GLU	CA-CB	7.40	1.66	1.53
4	5-F	492	GLU	CA-CB	7.40	1.66	1.53
2	5-O	11	GLN	CA-C	-7.40	1.43	1.52
4	5-X	492	GLU	CA-CB	7.40	1.66	1.53
4	6-F	492	GLU	CA-CB	7.40	1.66	1.53
2	6-O	11	GLN	CA-C	-7.40	1.43	1.52
4	6-X	492	GLU	CA-CB	7.40	1.66	1.53
4	7-F	492	GLU	CA-CB	7.40	1.66	1.53
2	7-O	11	GLN	CA-C	-7.40	1.43	1.52
4	7-X	492	GLU	CA-CB	7.40	1.66	1.53
4	8-F	492	GLU	CA-CB	7.40	1.66	1.53
2	8-O	11	GLN	CA-C	-7.40	1.43	1.52
4	8-X	492	GLU	CA-CB	7.40	1.66	1.53
5	1-S	297	ALA	CA-C	-7.40	1.43	1.52
6	1-T	390	ASP	CA-C	-7.40	1.43	1.52
5	2-S	297	ALA	CA-C	-7.40	1.43	1.52
6	2-T	390	ASP	CA-C	-7.40	1.43	1.52
5	3-S	297	ALA	CA-C	-7.40	1.43	1.52
6	3-T	390	ASP	CA-C	-7.40	1.43	1.52
5	4-S	297	ALA	CA-C	-7.40	1.43	1.52
6	4-T	390	ASP	CA-C	-7.40	1.43	1.52
5	5-S	297	ALA	CA-C	-7.40	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	5-T	390	ASP	CA-C	-7.40	1.43	1.52
5	6-S	297	ALA	CA-C	-7.40	1.43	1.52
6	6-T	390	ASP	CA-C	-7.40	1.43	1.52
5	7-S	297	ALA	CA-C	-7.40	1.43	1.52
6	7-T	390	ASP	CA-C	-7.40	1.43	1.52
5	8-S	297	ALA	CA-C	-7.40	1.43	1.52
6	8-T	390	ASP	CA-C	-7.40	1.43	1.52
5	1-G	326	LEU	CA-CB	7.39	1.66	1.53
6	1-H	390	ASP	CA-C	-7.39	1.43	1.52
5	2-G	326	LEU	CA-CB	7.39	1.66	1.53
6	2-H	390	ASP	CA-C	-7.39	1.43	1.52
5	3-G	326	LEU	CA-CB	7.39	1.66	1.53
6	3-H	390	ASP	CA-C	-7.39	1.43	1.52
5	4-G	326	LEU	CA-CB	7.39	1.66	1.53
6	4-H	390	ASP	CA-C	-7.39	1.43	1.52
5	5-G	326	LEU	CA-CB	7.39	1.66	1.53
6	5-H	390	ASP	CA-C	-7.39	1.43	1.52
5	6-G	326	LEU	CA-CB	7.39	1.66	1.53
6	6-H	390	ASP	CA-C	-7.39	1.43	1.52
5	7-G	326	LEU	CA-CB	7.39	1.66	1.53
6	7-H	390	ASP	CA-C	-7.39	1.43	1.52
5	8-G	326	LEU	CA-CB	7.39	1.66	1.53
6	8-H	390	ASP	CA-C	-7.39	1.43	1.52
5	1-G	327	ARG	C-O	7.37	1.33	1.24
6	1-T	412	GLU	N-CA	7.37	1.55	1.46
5	2-G	327	ARG	C-O	7.37	1.33	1.24
6	2-T	412	GLU	N-CA	7.37	1.55	1.46
5	3-G	327	ARG	C-O	7.37	1.33	1.24
6	3-T	412	GLU	N-CA	7.37	1.55	1.46
5	4-G	327	ARG	C-O	7.37	1.33	1.24
6	4-T	412	GLU	N-CA	7.37	1.55	1.46
5	5-G	327	ARG	C-O	7.37	1.33	1.24
6	5-T	412	GLU	N-CA	7.37	1.55	1.46
5	6-G	327	ARG	C-O	7.37	1.33	1.24
6	6-T	412	GLU	N-CA	7.37	1.55	1.46
5	7-G	327	ARG	C-O	7.37	1.33	1.24
6	7-T	412	GLU	N-CA	7.37	1.55	1.46
5	8-G	327	ARG	C-O	7.37	1.33	1.24
6	8-T	412	GLU	N-CA	7.37	1.55	1.46
4	1-F	415	ASP	CA-C	-7.36	1.43	1.52
6	1-N	412	GLU	N-CA	7.36	1.55	1.46
4	1-R	425	THR	CA-C	-7.36	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-F	415	ASP	CA-C	-7.36	1.43	1.52
6	2-N	412	GLU	N-CA	7.36	1.55	1.46
4	2-R	425	THR	CA-C	-7.36	1.42	1.52
4	3-F	415	ASP	CA-C	-7.36	1.43	1.52
6	3-N	412	GLU	N-CA	7.36	1.55	1.46
4	3-R	425	THR	CA-C	-7.36	1.42	1.52
4	4-F	415	ASP	CA-C	-7.36	1.43	1.52
6	4-N	412	GLU	N-CA	7.36	1.55	1.46
4	4-R	425	THR	CA-C	-7.36	1.42	1.52
4	5-F	415	ASP	CA-C	-7.36	1.43	1.52
6	5-N	412	GLU	N-CA	7.36	1.55	1.46
4	5-R	425	THR	CA-C	-7.36	1.42	1.52
4	6-F	415	ASP	CA-C	-7.36	1.43	1.52
6	6-N	412	GLU	N-CA	7.36	1.55	1.46
4	6-R	425	THR	CA-C	-7.36	1.42	1.52
4	7-F	415	ASP	CA-C	-7.36	1.43	1.52
6	7-N	412	GLU	N-CA	7.36	1.55	1.46
4	7-R	425	THR	CA-C	-7.36	1.42	1.52
4	8-F	415	ASP	CA-C	-7.36	1.43	1.52
6	8-N	412	GLU	N-CA	7.36	1.55	1.46
4	8-R	425	THR	CA-C	-7.36	1.42	1.52
2	1-I	11	GLN	CA-C	-7.36	1.43	1.52
4	1-L	492	GLU	CA-CB	7.36	1.66	1.53
5	1-M	327	ARG	C-O	7.36	1.33	1.24
6	1-Z	412	GLU	N-CA	7.36	1.55	1.46
2	2-I	11	GLN	CA-C	-7.36	1.43	1.52
4	2-L	492	GLU	CA-CB	7.36	1.66	1.53
5	2-M	327	ARG	C-O	7.36	1.33	1.24
6	2-Z	412	GLU	N-CA	7.36	1.55	1.46
2	3-I	11	GLN	CA-C	-7.36	1.43	1.52
4	3-L	492	GLU	CA-CB	7.36	1.66	1.53
5	3-M	327	ARG	C-O	7.36	1.33	1.24
6	3-Z	412	GLU	N-CA	7.36	1.55	1.46
2	4-I	11	GLN	CA-C	-7.36	1.43	1.52
4	4-L	492	GLU	CA-CB	7.36	1.66	1.53
5	4-M	327	ARG	C-O	7.36	1.33	1.24
6	4-Z	412	GLU	N-CA	7.36	1.55	1.46
2	5-I	11	GLN	CA-C	-7.36	1.43	1.52
4	5-L	492	GLU	CA-CB	7.36	1.66	1.53
5	5-M	327	ARG	C-O	7.36	1.33	1.24
6	5-Z	412	GLU	N-CA	7.36	1.55	1.46
2	6-I	11	GLN	CA-C	-7.36	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	492	GLU	CA-CB	7.36	1.66	1.53
5	6-M	327	ARG	C-O	7.36	1.33	1.24
6	6-Z	412	GLU	N-CA	7.36	1.55	1.46
2	7-I	11	GLN	CA-C	-7.36	1.43	1.52
4	7-L	492	GLU	CA-CB	7.36	1.66	1.53
5	7-M	327	ARG	C-O	7.36	1.33	1.24
6	7-Z	412	GLU	N-CA	7.36	1.55	1.46
2	8-I	11	GLN	CA-C	-7.36	1.43	1.52
4	8-L	492	GLU	CA-CB	7.36	1.66	1.53
5	8-M	327	ARG	C-O	7.36	1.33	1.24
6	8-Z	412	GLU	N-CA	7.36	1.55	1.46
4	1-R	464	LYS	C-N	7.35	1.42	1.33
4	2-R	464	LYS	C-N	7.35	1.42	1.33
4	3-R	464	LYS	C-N	7.35	1.42	1.33
4	4-R	464	LYS	C-N	7.35	1.42	1.33
4	5-R	464	LYS	C-N	7.35	1.42	1.33
4	6-R	464	LYS	C-N	7.35	1.42	1.33
4	7-R	464	LYS	C-N	7.35	1.42	1.33
4	8-R	464	LYS	C-N	7.35	1.42	1.33
3	1-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	2-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	3-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	4-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	5-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	6-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	7-V	1469	ILE	CA-C	-7.35	1.43	1.52
3	8-V	1469	ILE	CA-C	-7.35	1.43	1.52
6	1-H	468	SER	CA-C	7.34	1.62	1.52
4	1-X	464	LYS	C-N	7.34	1.42	1.33
6	2-H	468	SER	CA-C	7.34	1.62	1.52
4	2-X	464	LYS	C-N	7.34	1.42	1.33
6	3-H	468	SER	CA-C	7.34	1.62	1.52
4	3-X	464	LYS	C-N	7.34	1.42	1.33
6	4-H	468	SER	CA-C	7.34	1.62	1.52
4	4-X	464	LYS	C-N	7.34	1.42	1.33
6	5-H	468	SER	CA-C	7.34	1.62	1.52
4	5-X	464	LYS	C-N	7.34	1.42	1.33
6	6-H	468	SER	CA-C	7.34	1.62	1.52
4	6-X	464	LYS	C-N	7.34	1.42	1.33
6	7-H	468	SER	CA-C	7.34	1.62	1.52
4	7-X	464	LYS	C-N	7.34	1.42	1.33
6	8-H	468	SER	CA-C	7.34	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	464	LYS	C-N	7.34	1.42	1.33
3	1-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	1-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	2-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	2-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	3-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	3-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	4-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	4-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	5-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	5-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	6-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	6-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	7-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	7-V	1503	ILE	N-CA	-7.33	1.37	1.46
3	8-D	1469	ILE	CA-C	-7.33	1.43	1.52
3	8-V	1503	ILE	N-CA	-7.33	1.37	1.46
5	1-Y	327	ARG	C-O	7.33	1.33	1.24
5	2-Y	327	ARG	C-O	7.33	1.33	1.24
5	3-Y	327	ARG	C-O	7.33	1.33	1.24
5	4-Y	327	ARG	C-O	7.33	1.33	1.24
5	5-Y	327	ARG	C-O	7.33	1.33	1.24
5	6-Y	327	ARG	C-O	7.33	1.33	1.24
5	7-Y	327	ARG	C-O	7.33	1.33	1.24
5	8-Y	327	ARG	C-O	7.33	1.33	1.24
6	1-Z	468	SER	CA-C	7.33	1.62	1.52
6	2-Z	468	SER	CA-C	7.33	1.62	1.52
6	3-Z	468	SER	CA-C	7.33	1.62	1.52
6	4-Z	468	SER	CA-C	7.33	1.62	1.52
6	5-Z	468	SER	CA-C	7.33	1.62	1.52
6	6-Z	468	SER	CA-C	7.33	1.62	1.52
6	7-Z	468	SER	CA-C	7.33	1.62	1.52
6	8-Z	468	SER	CA-C	7.33	1.62	1.52
3	1-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	1-X	425	THR	CA-C	-7.33	1.42	1.52
3	2-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	2-X	425	THR	CA-C	-7.33	1.42	1.52
3	3-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	3-X	425	THR	CA-C	-7.33	1.42	1.52
3	4-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	4-X	425	THR	CA-C	-7.33	1.42	1.52
3	5-J	1503	ILE	N-CA	-7.33	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-X	425	THR	CA-C	-7.33	1.42	1.52
3	6-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	6-X	425	THR	CA-C	-7.33	1.42	1.52
3	7-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	7-X	425	THR	CA-C	-7.33	1.42	1.52
3	8-J	1503	ILE	N-CA	-7.33	1.37	1.46
4	8-X	425	THR	CA-C	-7.33	1.42	1.52
3	1-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	1-X	415	ASP	CA-C	-7.33	1.43	1.52
3	2-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	2-X	415	ASP	CA-C	-7.33	1.43	1.52
3	3-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	3-X	415	ASP	CA-C	-7.33	1.43	1.52
3	4-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	4-X	415	ASP	CA-C	-7.33	1.43	1.52
3	5-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	5-X	415	ASP	CA-C	-7.33	1.43	1.52
3	6-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	6-X	415	ASP	CA-C	-7.33	1.43	1.52
3	7-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	7-X	415	ASP	CA-C	-7.33	1.43	1.52
3	8-D	1503	ILE	N-CA	-7.33	1.37	1.46
4	8-X	415	ASP	CA-C	-7.33	1.43	1.52
4	1-F	425	THR	CA-C	-7.33	1.42	1.52
4	2-F	425	THR	CA-C	-7.33	1.42	1.52
4	3-F	425	THR	CA-C	-7.33	1.42	1.52
4	4-F	425	THR	CA-C	-7.33	1.42	1.52
4	5-F	425	THR	CA-C	-7.33	1.42	1.52
4	6-F	425	THR	CA-C	-7.33	1.42	1.52
4	7-F	425	THR	CA-C	-7.33	1.42	1.52
4	8-F	425	THR	CA-C	-7.33	1.42	1.52
4	1-R	472	GLU	CA-C	7.32	1.62	1.52
4	2-R	472	GLU	CA-C	7.32	1.62	1.52
4	3-R	472	GLU	CA-C	7.32	1.62	1.52
4	4-R	472	GLU	CA-C	7.32	1.62	1.52
4	5-R	472	GLU	CA-C	7.32	1.62	1.52
4	6-R	472	GLU	CA-C	7.32	1.62	1.52
4	7-R	472	GLU	CA-C	7.32	1.62	1.52
4	8-R	472	GLU	CA-C	7.32	1.62	1.52
6	1-H	412	GLU	N-CA	7.32	1.55	1.46
6	2-H	412	GLU	N-CA	7.32	1.55	1.46
6	3-H	412	GLU	N-CA	7.32	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	412	GLU	N-CA	7.32	1.55	1.46
6	5-H	412	GLU	N-CA	7.32	1.55	1.46
6	6-H	412	GLU	N-CA	7.32	1.55	1.46
6	7-H	412	GLU	N-CA	7.32	1.55	1.46
6	8-H	412	GLU	N-CA	7.32	1.55	1.46
3	1-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	1-R	415	ASP	CA-C	-7.32	1.43	1.52
3	2-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	2-R	415	ASP	CA-C	-7.32	1.43	1.52
3	3-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	3-R	415	ASP	CA-C	-7.32	1.43	1.52
3	4-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	4-R	415	ASP	CA-C	-7.32	1.43	1.52
3	5-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	5-R	415	ASP	CA-C	-7.32	1.43	1.52
3	6-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	6-R	415	ASP	CA-C	-7.32	1.43	1.52
3	7-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	7-R	415	ASP	CA-C	-7.32	1.43	1.52
3	8-P	1503	ILE	N-CA	-7.32	1.37	1.46
4	8-R	415	ASP	CA-C	-7.32	1.43	1.52
2	1-C	11	GLN	CA-C	-7.32	1.43	1.52
3	1-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	2-C	11	GLN	CA-C	-7.32	1.43	1.52
3	2-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	3-C	11	GLN	CA-C	-7.32	1.43	1.52
3	3-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	4-C	11	GLN	CA-C	-7.32	1.43	1.52
3	4-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	5-C	11	GLN	CA-C	-7.32	1.43	1.52
3	5-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	6-C	11	GLN	CA-C	-7.32	1.43	1.52
3	6-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	7-C	11	GLN	CA-C	-7.32	1.43	1.52
3	7-J	1469	ILE	CA-C	-7.32	1.44	1.52
2	8-C	11	GLN	CA-C	-7.32	1.43	1.52
3	8-J	1469	ILE	CA-C	-7.32	1.44	1.52
4	1-L	442	ASN	C-N	7.31	1.44	1.33
4	2-L	442	ASN	C-N	7.31	1.44	1.33
4	3-L	442	ASN	C-N	7.31	1.44	1.33
4	4-L	442	ASN	C-N	7.31	1.44	1.33
4	5-L	442	ASN	C-N	7.31	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	442	ASN	C-N	7.31	1.44	1.33
4	7-L	442	ASN	C-N	7.31	1.44	1.33
4	8-L	442	ASN	C-N	7.31	1.44	1.33
4	1-F	472	GLU	CA-C	7.31	1.62	1.52
4	1-X	298	GLN	CA-C	-7.31	1.42	1.53
4	1-X	472	GLU	CA-C	7.31	1.62	1.52
4	2-F	472	GLU	CA-C	7.31	1.62	1.52
4	2-X	298	GLN	CA-C	-7.31	1.42	1.53
4	2-X	472	GLU	CA-C	7.31	1.62	1.52
4	3-F	472	GLU	CA-C	7.31	1.62	1.52
4	3-X	298	GLN	CA-C	-7.31	1.42	1.53
4	3-X	472	GLU	CA-C	7.31	1.62	1.52
4	4-F	472	GLU	CA-C	7.31	1.62	1.52
4	4-X	298	GLN	CA-C	-7.31	1.42	1.53
4	4-X	472	GLU	CA-C	7.31	1.62	1.52
4	5-F	472	GLU	CA-C	7.31	1.62	1.52
4	5-X	298	GLN	CA-C	-7.31	1.42	1.53
4	5-X	472	GLU	CA-C	7.31	1.62	1.52
4	6-F	472	GLU	CA-C	7.31	1.62	1.52
4	6-X	298	GLN	CA-C	-7.31	1.42	1.53
4	6-X	472	GLU	CA-C	7.31	1.62	1.52
4	7-F	472	GLU	CA-C	7.31	1.62	1.52
4	7-X	298	GLN	CA-C	-7.31	1.42	1.53
4	7-X	472	GLU	CA-C	7.31	1.62	1.52
4	8-F	472	GLU	CA-C	7.31	1.62	1.52
4	8-X	298	GLN	CA-C	-7.31	1.42	1.53
4	8-X	472	GLU	CA-C	7.31	1.62	1.52
3	1-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	2-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	3-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	4-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	5-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	6-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	7-P	1469	ILE	CA-C	-7.31	1.44	1.52
3	8-P	1469	ILE	CA-C	-7.31	1.44	1.52
2	1-U	11	GLN	CA-C	-7.31	1.43	1.52
2	2-U	11	GLN	CA-C	-7.31	1.43	1.52
2	3-U	11	GLN	CA-C	-7.31	1.43	1.52
2	4-U	11	GLN	CA-C	-7.31	1.43	1.52
2	5-U	11	GLN	CA-C	-7.31	1.43	1.52
2	6-U	11	GLN	CA-C	-7.31	1.43	1.52
2	7-U	11	GLN	CA-C	-7.31	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-U	11	GLN	CA-C	-7.31	1.43	1.52
4	1-X	442	ASN	C-N	7.30	1.44	1.33
4	2-X	442	ASN	C-N	7.30	1.44	1.33
4	3-X	442	ASN	C-N	7.30	1.44	1.33
4	4-X	442	ASN	C-N	7.30	1.44	1.33
4	5-X	442	ASN	C-N	7.30	1.44	1.33
4	6-X	442	ASN	C-N	7.30	1.44	1.33
4	7-X	442	ASN	C-N	7.30	1.44	1.33
4	8-X	442	ASN	C-N	7.30	1.44	1.33
6	1-N	468	SER	CA-C	7.30	1.62	1.52
6	2-N	468	SER	CA-C	7.30	1.62	1.52
6	3-N	468	SER	CA-C	7.30	1.62	1.52
6	4-N	468	SER	CA-C	7.30	1.62	1.52
6	5-N	468	SER	CA-C	7.30	1.62	1.52
6	6-N	468	SER	CA-C	7.30	1.62	1.52
6	7-N	468	SER	CA-C	7.30	1.62	1.52
6	8-N	468	SER	CA-C	7.30	1.62	1.52
4	1-L	464	LYS	C-N	7.30	1.42	1.33
4	2-L	464	LYS	C-N	7.30	1.42	1.33
4	3-L	464	LYS	C-N	7.30	1.42	1.33
4	4-L	464	LYS	C-N	7.30	1.42	1.33
4	5-L	464	LYS	C-N	7.30	1.42	1.33
4	6-L	464	LYS	C-N	7.30	1.42	1.33
4	7-L	464	LYS	C-N	7.30	1.42	1.33
4	8-L	464	LYS	C-N	7.30	1.42	1.33
4	1-L	415	ASP	CA-C	-7.29	1.43	1.52
4	1-L	472	GLU	CA-C	7.29	1.62	1.52
4	2-L	415	ASP	CA-C	-7.29	1.43	1.52
4	2-L	472	GLU	CA-C	7.29	1.62	1.52
4	3-L	415	ASP	CA-C	-7.29	1.43	1.52
4	3-L	472	GLU	CA-C	7.29	1.62	1.52
4	4-L	415	ASP	CA-C	-7.29	1.43	1.52
4	4-L	472	GLU	CA-C	7.29	1.62	1.52
4	5-L	415	ASP	CA-C	-7.29	1.43	1.52
4	5-L	472	GLU	CA-C	7.29	1.62	1.52
4	6-L	415	ASP	CA-C	-7.29	1.43	1.52
4	6-L	472	GLU	CA-C	7.29	1.62	1.52
4	7-L	415	ASP	CA-C	-7.29	1.43	1.52
4	7-L	472	GLU	CA-C	7.29	1.62	1.52
4	8-L	415	ASP	CA-C	-7.29	1.43	1.52
4	8-L	472	GLU	CA-C	7.29	1.62	1.52
4	1-L	425	THR	CA-C	-7.29	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	425	THR	CA-C	-7.29	1.42	1.52
4	3-L	425	THR	CA-C	-7.29	1.42	1.52
4	4-L	425	THR	CA-C	-7.29	1.42	1.52
4	5-L	425	THR	CA-C	-7.29	1.42	1.52
4	6-L	425	THR	CA-C	-7.29	1.42	1.52
4	7-L	425	THR	CA-C	-7.29	1.42	1.52
4	8-L	425	THR	CA-C	-7.29	1.42	1.52
5	1-G	248	PRO	CA-CB	7.28	1.68	1.53
5	1-M	248	PRO	CA-CB	7.28	1.68	1.53
5	2-G	248	PRO	CA-CB	7.28	1.68	1.53
5	2-M	248	PRO	CA-CB	7.28	1.68	1.53
5	3-G	248	PRO	CA-CB	7.28	1.68	1.53
5	3-M	248	PRO	CA-CB	7.28	1.68	1.53
5	4-G	248	PRO	CA-CB	7.28	1.68	1.53
5	4-M	248	PRO	CA-CB	7.28	1.68	1.53
5	5-G	248	PRO	CA-CB	7.28	1.68	1.53
5	5-M	248	PRO	CA-CB	7.28	1.68	1.53
5	6-G	248	PRO	CA-CB	7.28	1.68	1.53
5	6-M	248	PRO	CA-CB	7.28	1.68	1.53
5	7-G	248	PRO	CA-CB	7.28	1.68	1.53
5	7-M	248	PRO	CA-CB	7.28	1.68	1.53
5	8-G	248	PRO	CA-CB	7.28	1.68	1.53
5	8-M	248	PRO	CA-CB	7.28	1.68	1.53
6	1-T	468	SER	CA-C	7.28	1.62	1.52
2	1-U	5	GLY	CA-C	-7.28	1.41	1.51
6	2-T	468	SER	CA-C	7.28	1.62	1.52
2	2-U	5	GLY	CA-C	-7.28	1.41	1.51
6	3-T	468	SER	CA-C	7.28	1.62	1.52
2	3-U	5	GLY	CA-C	-7.28	1.41	1.51
6	4-T	468	SER	CA-C	7.28	1.62	1.52
2	4-U	5	GLY	CA-C	-7.28	1.41	1.51
6	5-T	468	SER	CA-C	7.28	1.62	1.52
2	5-U	5	GLY	CA-C	-7.28	1.41	1.51
6	6-T	468	SER	CA-C	7.28	1.62	1.52
2	6-U	5	GLY	CA-C	-7.28	1.41	1.51
6	7-T	468	SER	CA-C	7.28	1.62	1.52
2	7-U	5	GLY	CA-C	-7.28	1.41	1.51
6	8-T	468	SER	CA-C	7.28	1.62	1.52
2	8-U	5	GLY	CA-C	-7.28	1.41	1.51
2	1-O	5	GLY	CA-C	-7.27	1.41	1.51
2	2-O	5	GLY	CA-C	-7.27	1.41	1.51
2	3-O	5	GLY	CA-C	-7.27	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4-O	5	GLY	CA-C	-7.27	1.41	1.51
2	5-O	5	GLY	CA-C	-7.27	1.41	1.51
2	6-O	5	GLY	CA-C	-7.27	1.41	1.51
2	7-O	5	GLY	CA-C	-7.27	1.41	1.51
2	8-O	5	GLY	CA-C	-7.27	1.41	1.51
4	1-R	298	GLN	CA-C	-7.26	1.42	1.53
5	1-S	248	PRO	CA-CB	7.26	1.68	1.53
4	2-R	298	GLN	CA-C	-7.26	1.42	1.53
5	2-S	248	PRO	CA-CB	7.26	1.68	1.53
4	3-R	298	GLN	CA-C	-7.26	1.42	1.53
5	3-S	248	PRO	CA-CB	7.26	1.68	1.53
4	4-R	298	GLN	CA-C	-7.26	1.42	1.53
5	4-S	248	PRO	CA-CB	7.26	1.68	1.53
4	5-R	298	GLN	CA-C	-7.26	1.42	1.53
5	5-S	248	PRO	CA-CB	7.26	1.68	1.53
4	6-R	298	GLN	CA-C	-7.26	1.42	1.53
5	6-S	248	PRO	CA-CB	7.26	1.68	1.53
4	7-R	298	GLN	CA-C	-7.26	1.42	1.53
5	7-S	248	PRO	CA-CB	7.26	1.68	1.53
4	8-R	298	GLN	CA-C	-7.26	1.42	1.53
5	8-S	248	PRO	CA-CB	7.26	1.68	1.53
4	1-R	442	ASN	C-N	7.26	1.43	1.33
4	2-R	442	ASN	C-N	7.26	1.43	1.33
4	3-R	442	ASN	C-N	7.26	1.43	1.33
4	4-R	442	ASN	C-N	7.26	1.43	1.33
4	5-R	442	ASN	C-N	7.26	1.43	1.33
4	6-R	442	ASN	C-N	7.26	1.43	1.33
4	7-R	442	ASN	C-N	7.26	1.43	1.33
4	8-R	442	ASN	C-N	7.26	1.43	1.33
4	1-F	298	GLN	CA-C	-7.26	1.42	1.53
6	1-Z	378	GLU	C-N	7.26	1.42	1.33
4	2-F	298	GLN	CA-C	-7.26	1.42	1.53
6	2-Z	378	GLU	C-N	7.26	1.42	1.33
4	3-F	298	GLN	CA-C	-7.26	1.42	1.53
6	3-Z	378	GLU	C-N	7.26	1.42	1.33
4	4-F	298	GLN	CA-C	-7.26	1.42	1.53
6	4-Z	378	GLU	C-N	7.26	1.42	1.33
4	5-F	298	GLN	CA-C	-7.26	1.42	1.53
6	5-Z	378	GLU	C-N	7.26	1.42	1.33
4	6-F	298	GLN	CA-C	-7.26	1.42	1.53
6	6-Z	378	GLU	C-N	7.26	1.42	1.33
4	7-F	298	GLN	CA-C	-7.26	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	7-Z	378	GLU	C-N	7.26	1.42	1.33
4	8-F	298	GLN	CA-C	-7.26	1.42	1.53
6	8-Z	378	GLU	C-N	7.26	1.42	1.33
5	1-S	327	ARG	C-O	7.26	1.33	1.24
5	2-S	327	ARG	C-O	7.26	1.33	1.24
5	3-S	327	ARG	C-O	7.26	1.33	1.24
5	4-S	327	ARG	C-O	7.26	1.33	1.24
5	5-S	327	ARG	C-O	7.26	1.33	1.24
5	6-S	327	ARG	C-O	7.26	1.33	1.24
5	7-S	327	ARG	C-O	7.26	1.33	1.24
5	8-S	327	ARG	C-O	7.26	1.33	1.24
2	1-I	5	GLY	CA-C	-7.25	1.41	1.51
2	2-I	5	GLY	CA-C	-7.25	1.41	1.51
2	3-I	5	GLY	CA-C	-7.25	1.41	1.51
2	4-I	5	GLY	CA-C	-7.25	1.41	1.51
2	5-I	5	GLY	CA-C	-7.25	1.41	1.51
2	6-I	5	GLY	CA-C	-7.25	1.41	1.51
2	7-I	5	GLY	CA-C	-7.25	1.41	1.51
2	8-I	5	GLY	CA-C	-7.25	1.41	1.51
2	1-C	5	GLY	CA-C	-7.25	1.41	1.51
2	2-C	5	GLY	CA-C	-7.25	1.41	1.51
2	3-C	5	GLY	CA-C	-7.25	1.41	1.51
2	4-C	5	GLY	CA-C	-7.25	1.41	1.51
2	5-C	5	GLY	CA-C	-7.25	1.41	1.51
2	6-C	5	GLY	CA-C	-7.25	1.41	1.51
2	7-C	5	GLY	CA-C	-7.25	1.41	1.51
2	8-C	5	GLY	CA-C	-7.25	1.41	1.51
4	1-F	442	ASN	C-N	7.24	1.43	1.33
4	2-F	442	ASN	C-N	7.24	1.43	1.33
4	3-F	442	ASN	C-N	7.24	1.43	1.33
4	4-F	442	ASN	C-N	7.24	1.43	1.33
4	5-F	442	ASN	C-N	7.24	1.43	1.33
4	6-F	442	ASN	C-N	7.24	1.43	1.33
4	7-F	442	ASN	C-N	7.24	1.43	1.33
4	8-F	442	ASN	C-N	7.24	1.43	1.33
6	1-T	418	SER	N-CA	-7.23	1.38	1.46
6	2-T	418	SER	N-CA	-7.23	1.38	1.46
6	3-T	418	SER	N-CA	-7.23	1.38	1.46
6	4-T	418	SER	N-CA	-7.23	1.38	1.46
6	5-T	418	SER	N-CA	-7.23	1.38	1.46
6	6-T	418	SER	N-CA	-7.23	1.38	1.46
6	7-T	418	SER	N-CA	-7.23	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-T	418	SER	N-CA	-7.23	1.38	1.46
6	1-H	378	GLU	C-N	7.23	1.42	1.33
6	2-H	378	GLU	C-N	7.23	1.42	1.33
6	3-H	378	GLU	C-N	7.23	1.42	1.33
6	4-H	378	GLU	C-N	7.23	1.42	1.33
6	5-H	378	GLU	C-N	7.23	1.42	1.33
6	6-H	378	GLU	C-N	7.23	1.42	1.33
6	7-H	378	GLU	C-N	7.23	1.42	1.33
6	8-H	378	GLU	C-N	7.23	1.42	1.33
4	1-L	298	GLN	CA-C	-7.23	1.42	1.53
5	1-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	2-L	298	GLN	CA-C	-7.23	1.42	1.53
5	2-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	3-L	298	GLN	CA-C	-7.23	1.42	1.53
5	3-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	4-L	298	GLN	CA-C	-7.23	1.42	1.53
5	4-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	5-L	298	GLN	CA-C	-7.23	1.42	1.53
5	5-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	6-L	298	GLN	CA-C	-7.23	1.42	1.53
5	6-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	7-L	298	GLN	CA-C	-7.23	1.42	1.53
5	7-Y	248	PRO	CA-CB	7.23	1.68	1.53
4	8-L	298	GLN	CA-C	-7.23	1.42	1.53
5	8-Y	248	PRO	CA-CB	7.23	1.68	1.53
6	1-T	378	GLU	C-N	7.22	1.42	1.33
6	2-T	378	GLU	C-N	7.22	1.42	1.33
6	3-T	378	GLU	C-N	7.22	1.42	1.33
6	4-T	378	GLU	C-N	7.22	1.42	1.33
6	5-T	378	GLU	C-N	7.22	1.42	1.33
6	6-T	378	GLU	C-N	7.22	1.42	1.33
6	7-T	378	GLU	C-N	7.22	1.42	1.33
6	8-T	378	GLU	C-N	7.22	1.42	1.33
6	1-N	489	ASP	CA-C	7.22	1.62	1.52
6	2-N	489	ASP	CA-C	7.22	1.62	1.52
6	3-N	489	ASP	CA-C	7.22	1.62	1.52
6	4-N	489	ASP	CA-C	7.22	1.62	1.52
6	5-N	489	ASP	CA-C	7.22	1.62	1.52
6	6-N	489	ASP	CA-C	7.22	1.62	1.52
6	7-N	489	ASP	CA-C	7.22	1.62	1.52
6	8-N	489	ASP	CA-C	7.22	1.62	1.52
4	1-F	464	LYS	C-N	7.22	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-N	378	GLU	C-N	7.22	1.42	1.33
4	2-F	464	LYS	C-N	7.22	1.42	1.33
6	2-N	378	GLU	C-N	7.22	1.42	1.33
4	3-F	464	LYS	C-N	7.22	1.42	1.33
6	3-N	378	GLU	C-N	7.22	1.42	1.33
4	4-F	464	LYS	C-N	7.22	1.42	1.33
6	4-N	378	GLU	C-N	7.22	1.42	1.33
4	5-F	464	LYS	C-N	7.22	1.42	1.33
6	5-N	378	GLU	C-N	7.22	1.42	1.33
4	6-F	464	LYS	C-N	7.22	1.42	1.33
6	6-N	378	GLU	C-N	7.22	1.42	1.33
4	7-F	464	LYS	C-N	7.22	1.42	1.33
6	7-N	378	GLU	C-N	7.22	1.42	1.33
4	8-F	464	LYS	C-N	7.22	1.42	1.33
6	8-N	378	GLU	C-N	7.22	1.42	1.33
5	1-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	2-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	3-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	4-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	5-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	6-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	7-G	302	GLN	CA-CB	-7.21	1.42	1.53
5	8-G	302	GLN	CA-CB	-7.21	1.42	1.53
6	1-Z	418	SER	N-CA	-7.21	1.38	1.46
6	2-Z	418	SER	N-CA	-7.21	1.38	1.46
6	3-Z	418	SER	N-CA	-7.21	1.38	1.46
6	4-Z	418	SER	N-CA	-7.21	1.38	1.46
6	5-Z	418	SER	N-CA	-7.21	1.38	1.46
6	6-Z	418	SER	N-CA	-7.21	1.38	1.46
6	7-Z	418	SER	N-CA	-7.21	1.38	1.46
6	8-Z	418	SER	N-CA	-7.21	1.38	1.46
5	1-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	2-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	3-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	4-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	5-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	6-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	7-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	8-M	302	GLN	CA-CB	-7.21	1.42	1.53
5	1-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	2-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	3-S	302	GLN	CA-CB	-7.19	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	5-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	6-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	7-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	8-S	302	GLN	CA-CB	-7.19	1.42	1.53
5	1-M	340	ALA	C-N	7.19	1.48	1.33
5	2-M	340	ALA	C-N	7.19	1.48	1.33
5	3-M	340	ALA	C-N	7.19	1.48	1.33
5	4-M	340	ALA	C-N	7.19	1.48	1.33
5	5-M	340	ALA	C-N	7.19	1.48	1.33
5	6-M	340	ALA	C-N	7.19	1.48	1.33
5	7-M	340	ALA	C-N	7.19	1.48	1.33
5	8-M	340	ALA	C-N	7.19	1.48	1.33
5	1-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	2-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	3-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	4-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	5-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	6-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	7-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	8-Y	302	GLN	CA-CB	-7.18	1.42	1.53
5	1-G	340	ALA	C-N	7.18	1.48	1.33
5	2-G	340	ALA	C-N	7.18	1.48	1.33
5	3-G	340	ALA	C-N	7.18	1.48	1.33
5	4-G	340	ALA	C-N	7.18	1.48	1.33
5	5-G	340	ALA	C-N	7.18	1.48	1.33
5	6-G	340	ALA	C-N	7.18	1.48	1.33
5	7-G	340	ALA	C-N	7.18	1.48	1.33
5	8-G	340	ALA	C-N	7.18	1.48	1.33
5	1-S	302	GLN	CA-C	-7.18	1.43	1.52
5	2-S	302	GLN	CA-C	-7.18	1.43	1.52
5	3-S	302	GLN	CA-C	-7.18	1.43	1.52
5	4-S	302	GLN	CA-C	-7.18	1.43	1.52
5	5-S	302	GLN	CA-C	-7.18	1.43	1.52
5	6-S	302	GLN	CA-C	-7.18	1.43	1.52
5	7-S	302	GLN	CA-C	-7.18	1.43	1.52
5	8-S	302	GLN	CA-C	-7.18	1.43	1.52
5	1-G	321	ASN	N-CA	-7.18	1.36	1.46
3	1-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	2-G	321	ASN	N-CA	-7.18	1.36	1.46
3	2-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	3-G	321	ASN	N-CA	-7.18	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	4-G	321	ASN	N-CA	-7.18	1.36	1.46
3	4-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	5-G	321	ASN	N-CA	-7.18	1.36	1.46
3	5-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	6-G	321	ASN	N-CA	-7.18	1.36	1.46
3	6-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	7-G	321	ASN	N-CA	-7.18	1.36	1.46
3	7-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	8-G	321	ASN	N-CA	-7.18	1.36	1.46
3	8-J	1483	ARG	CA-C	-7.18	1.43	1.52
5	1-S	340	ALA	C-N	7.17	1.48	1.33
5	2-S	340	ALA	C-N	7.17	1.48	1.33
5	3-S	340	ALA	C-N	7.17	1.48	1.33
5	4-S	340	ALA	C-N	7.17	1.48	1.33
5	5-S	340	ALA	C-N	7.17	1.48	1.33
5	6-S	340	ALA	C-N	7.17	1.48	1.33
5	7-S	340	ALA	C-N	7.17	1.48	1.33
5	8-S	340	ALA	C-N	7.17	1.48	1.33
6	1-Z	489	ASP	CA-C	7.17	1.62	1.52
6	2-Z	489	ASP	CA-C	7.17	1.62	1.52
6	3-Z	489	ASP	CA-C	7.17	1.62	1.52
6	4-Z	489	ASP	CA-C	7.17	1.62	1.52
6	5-Z	489	ASP	CA-C	7.17	1.62	1.52
6	6-Z	489	ASP	CA-C	7.17	1.62	1.52
6	7-Z	489	ASP	CA-C	7.17	1.62	1.52
6	8-Z	489	ASP	CA-C	7.17	1.62	1.52
3	1-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	2-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	3-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	4-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	5-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	6-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	7-V	1483	ARG	CA-C	-7.17	1.43	1.52
3	8-V	1483	ARG	CA-C	-7.17	1.43	1.52
5	1-G	347	ARG	CA-C	-7.16	1.42	1.52
6	1-T	489	ASP	CA-C	7.16	1.62	1.52
5	2-G	347	ARG	CA-C	-7.16	1.42	1.52
6	2-T	489	ASP	CA-C	7.16	1.62	1.52
5	3-G	347	ARG	CA-C	-7.16	1.42	1.52
6	3-T	489	ASP	CA-C	7.16	1.62	1.52
5	4-G	347	ARG	CA-C	-7.16	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	489	ASP	CA-C	7.16	1.62	1.52
5	5-G	347	ARG	CA-C	-7.16	1.42	1.52
6	5-T	489	ASP	CA-C	7.16	1.62	1.52
5	6-G	347	ARG	CA-C	-7.16	1.42	1.52
6	6-T	489	ASP	CA-C	7.16	1.62	1.52
5	7-G	347	ARG	CA-C	-7.16	1.42	1.52
6	7-T	489	ASP	CA-C	7.16	1.62	1.52
5	8-G	347	ARG	CA-C	-7.16	1.42	1.52
6	8-T	489	ASP	CA-C	7.16	1.62	1.52
6	1-H	418	SER	N-CA	-7.15	1.38	1.46
6	2-H	418	SER	N-CA	-7.15	1.38	1.46
6	3-H	418	SER	N-CA	-7.15	1.38	1.46
6	4-H	418	SER	N-CA	-7.15	1.38	1.46
6	5-H	418	SER	N-CA	-7.15	1.38	1.46
6	6-H	418	SER	N-CA	-7.15	1.38	1.46
6	7-H	418	SER	N-CA	-7.15	1.38	1.46
6	8-H	418	SER	N-CA	-7.15	1.38	1.46
6	1-H	471	LEU	CA-CB	7.15	1.64	1.53
5	1-M	347	ARG	CA-C	-7.15	1.42	1.52
6	2-H	471	LEU	CA-CB	7.15	1.64	1.53
5	2-M	347	ARG	CA-C	-7.15	1.42	1.52
6	3-H	471	LEU	CA-CB	7.15	1.64	1.53
5	3-M	347	ARG	CA-C	-7.15	1.42	1.52
6	4-H	471	LEU	CA-CB	7.15	1.64	1.53
5	4-M	347	ARG	CA-C	-7.15	1.42	1.52
6	5-H	471	LEU	CA-CB	7.15	1.64	1.53
5	5-M	347	ARG	CA-C	-7.15	1.42	1.52
6	6-H	471	LEU	CA-CB	7.15	1.64	1.53
5	6-M	347	ARG	CA-C	-7.15	1.42	1.52
6	7-H	471	LEU	CA-CB	7.15	1.64	1.53
5	7-M	347	ARG	CA-C	-7.15	1.42	1.52
6	8-H	471	LEU	CA-CB	7.15	1.64	1.53
5	8-M	347	ARG	CA-C	-7.15	1.42	1.52
6	1-T	471	LEU	CA-CB	7.15	1.64	1.53
6	2-T	471	LEU	CA-CB	7.15	1.64	1.53
6	3-T	471	LEU	CA-CB	7.15	1.64	1.53
6	4-T	471	LEU	CA-CB	7.15	1.64	1.53
6	5-T	471	LEU	CA-CB	7.15	1.64	1.53
6	6-T	471	LEU	CA-CB	7.15	1.64	1.53
6	7-T	471	LEU	CA-CB	7.15	1.64	1.53
6	8-T	471	LEU	CA-CB	7.15	1.64	1.53
5	1-M	302	GLN	CA-C	-7.15	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-N	471	LEU	CA-CB	7.15	1.64	1.53
3	1-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	2-M	302	GLN	CA-C	-7.15	1.43	1.52
6	2-N	471	LEU	CA-CB	7.15	1.64	1.53
3	2-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	3-M	302	GLN	CA-C	-7.15	1.43	1.52
6	3-N	471	LEU	CA-CB	7.15	1.64	1.53
3	3-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	4-M	302	GLN	CA-C	-7.15	1.43	1.52
6	4-N	471	LEU	CA-CB	7.15	1.64	1.53
3	4-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	5-M	302	GLN	CA-C	-7.15	1.43	1.52
6	5-N	471	LEU	CA-CB	7.15	1.64	1.53
3	5-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	6-M	302	GLN	CA-C	-7.15	1.43	1.52
6	6-N	471	LEU	CA-CB	7.15	1.64	1.53
3	6-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	7-M	302	GLN	CA-C	-7.15	1.43	1.52
6	7-N	471	LEU	CA-CB	7.15	1.64	1.53
3	7-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	8-M	302	GLN	CA-C	-7.15	1.43	1.52
6	8-N	471	LEU	CA-CB	7.15	1.64	1.53
3	8-P	1483	ARG	CA-C	-7.15	1.43	1.52
5	1-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	2-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	3-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	4-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	5-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	6-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	7-Y	302	GLN	CA-C	-7.15	1.43	1.52
5	8-Y	302	GLN	CA-C	-7.15	1.43	1.52
4	1-F	491	VAL	C-N	-7.14	1.23	1.33
4	1-R	491	VAL	C-N	-7.14	1.23	1.33
5	1-S	347	ARG	CA-C	-7.14	1.42	1.52
6	1-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	2-F	491	VAL	C-N	-7.14	1.23	1.33
4	2-R	491	VAL	C-N	-7.14	1.23	1.33
5	2-S	347	ARG	CA-C	-7.14	1.42	1.52
6	2-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	3-F	491	VAL	C-N	-7.14	1.23	1.33
4	3-R	491	VAL	C-N	-7.14	1.23	1.33
5	3-S	347	ARG	CA-C	-7.14	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	4-F	491	VAL	C-N	-7.14	1.23	1.33
4	4-R	491	VAL	C-N	-7.14	1.23	1.33
5	4-S	347	ARG	CA-C	-7.14	1.42	1.52
6	4-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	5-F	491	VAL	C-N	-7.14	1.23	1.33
4	5-R	491	VAL	C-N	-7.14	1.23	1.33
5	5-S	347	ARG	CA-C	-7.14	1.42	1.52
6	5-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	6-F	491	VAL	C-N	-7.14	1.23	1.33
4	6-R	491	VAL	C-N	-7.14	1.23	1.33
5	6-S	347	ARG	CA-C	-7.14	1.42	1.52
6	6-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	7-F	491	VAL	C-N	-7.14	1.23	1.33
4	7-R	491	VAL	C-N	-7.14	1.23	1.33
5	7-S	347	ARG	CA-C	-7.14	1.42	1.52
6	7-Z	471	LEU	CA-CB	7.14	1.64	1.53
4	8-F	491	VAL	C-N	-7.14	1.23	1.33
4	8-R	491	VAL	C-N	-7.14	1.23	1.33
5	8-S	347	ARG	CA-C	-7.14	1.42	1.52
6	8-Z	471	LEU	CA-CB	7.14	1.64	1.53
6	1-N	418	SER	N-CA	-7.14	1.38	1.46
4	1-R	410	LEU	CA-C	-7.14	1.43	1.52
6	2-N	418	SER	N-CA	-7.14	1.38	1.46
4	2-R	410	LEU	CA-C	-7.14	1.43	1.52
6	3-N	418	SER	N-CA	-7.14	1.38	1.46
4	3-R	410	LEU	CA-C	-7.14	1.43	1.52
6	4-N	418	SER	N-CA	-7.14	1.38	1.46
4	4-R	410	LEU	CA-C	-7.14	1.43	1.52
6	5-N	418	SER	N-CA	-7.14	1.38	1.46
4	5-R	410	LEU	CA-C	-7.14	1.43	1.52
6	6-N	418	SER	N-CA	-7.14	1.38	1.46
4	6-R	410	LEU	CA-C	-7.14	1.43	1.52
6	7-N	418	SER	N-CA	-7.14	1.38	1.46
4	7-R	410	LEU	CA-C	-7.14	1.43	1.52
6	8-N	418	SER	N-CA	-7.14	1.38	1.46
4	8-R	410	LEU	CA-C	-7.14	1.43	1.52
5	1-M	321	ASN	N-CA	-7.14	1.36	1.46
5	2-M	321	ASN	N-CA	-7.14	1.36	1.46
5	3-M	321	ASN	N-CA	-7.14	1.36	1.46
5	4-M	321	ASN	N-CA	-7.14	1.36	1.46
5	5-M	321	ASN	N-CA	-7.14	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	321	ASN	N-CA	-7.14	1.36	1.46
5	7-M	321	ASN	N-CA	-7.14	1.36	1.46
5	8-M	321	ASN	N-CA	-7.14	1.36	1.46
4	1-L	410	LEU	CA-C	-7.14	1.43	1.52
5	1-Y	340	ALA	C-N	7.14	1.48	1.33
4	2-L	410	LEU	CA-C	-7.14	1.43	1.52
5	2-Y	340	ALA	C-N	7.14	1.48	1.33
4	3-L	410	LEU	CA-C	-7.14	1.43	1.52
5	3-Y	340	ALA	C-N	7.14	1.48	1.33
4	4-L	410	LEU	CA-C	-7.14	1.43	1.52
5	4-Y	340	ALA	C-N	7.14	1.48	1.33
4	5-L	410	LEU	CA-C	-7.14	1.43	1.52
5	5-Y	340	ALA	C-N	7.14	1.48	1.33
4	6-L	410	LEU	CA-C	-7.14	1.43	1.52
5	6-Y	340	ALA	C-N	7.14	1.48	1.33
4	7-L	410	LEU	CA-C	-7.14	1.43	1.52
5	7-Y	340	ALA	C-N	7.14	1.48	1.33
4	8-L	410	LEU	CA-C	-7.14	1.43	1.52
5	8-Y	340	ALA	C-N	7.14	1.48	1.33
4	1-F	410	LEU	CA-C	-7.13	1.43	1.52
4	2-F	410	LEU	CA-C	-7.13	1.43	1.52
4	3-F	410	LEU	CA-C	-7.13	1.43	1.52
4	4-F	410	LEU	CA-C	-7.13	1.43	1.52
4	5-F	410	LEU	CA-C	-7.13	1.43	1.52
4	6-F	410	LEU	CA-C	-7.13	1.43	1.52
4	7-F	410	LEU	CA-C	-7.13	1.43	1.52
4	8-F	410	LEU	CA-C	-7.13	1.43	1.52
3	1-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	1-X	491	VAL	C-N	-7.13	1.23	1.33
3	2-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	2-X	491	VAL	C-N	-7.13	1.23	1.33
3	3-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	3-X	491	VAL	C-N	-7.13	1.23	1.33
3	4-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	4-X	491	VAL	C-N	-7.13	1.23	1.33
3	5-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	5-X	491	VAL	C-N	-7.13	1.23	1.33
3	6-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	6-X	491	VAL	C-N	-7.13	1.23	1.33
3	7-D	1549	ALA	N-CA	-7.13	1.37	1.46
4	7-X	491	VAL	C-N	-7.13	1.23	1.33
3	8-D	1549	ALA	N-CA	-7.13	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	491	VAL	C-N	-7.13	1.23	1.33
3	1-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	1-L	491	VAL	C-N	-7.12	1.23	1.33
3	2-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	2-L	491	VAL	C-N	-7.12	1.23	1.33
3	3-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	3-L	491	VAL	C-N	-7.12	1.23	1.33
3	4-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	4-L	491	VAL	C-N	-7.12	1.23	1.33
3	5-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	5-L	491	VAL	C-N	-7.12	1.23	1.33
3	6-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	6-L	491	VAL	C-N	-7.12	1.23	1.33
3	7-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	7-L	491	VAL	C-N	-7.12	1.23	1.33
3	8-D	1483	ARG	CA-C	-7.12	1.43	1.52
4	8-L	491	VAL	C-N	-7.12	1.23	1.33
5	1-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	2-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	3-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	4-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	5-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	6-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	7-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	8-Y	347	ARG	CA-C	-7.12	1.42	1.52
5	1-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	2-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	3-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	4-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	5-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	6-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	7-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	8-Y	321	ASN	N-CA	-7.12	1.36	1.46
5	1-G	302	GLN	CA-C	-7.12	1.43	1.52
4	1-R	310	GLU	CA-C	-7.12	1.43	1.52
5	2-G	302	GLN	CA-C	-7.12	1.43	1.52
4	2-R	310	GLU	CA-C	-7.12	1.43	1.52
5	3-G	302	GLN	CA-C	-7.12	1.43	1.52
4	3-R	310	GLU	CA-C	-7.12	1.43	1.52
5	4-G	302	GLN	CA-C	-7.12	1.43	1.52
4	4-R	310	GLU	CA-C	-7.12	1.43	1.52
5	5-G	302	GLN	CA-C	-7.12	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-R	310	GLU	CA-C	-7.12	1.43	1.52
5	6-G	302	GLN	CA-C	-7.12	1.43	1.52
4	6-R	310	GLU	CA-C	-7.12	1.43	1.52
5	7-G	302	GLN	CA-C	-7.12	1.43	1.52
4	7-R	310	GLU	CA-C	-7.12	1.43	1.52
5	8-G	302	GLN	CA-C	-7.12	1.43	1.52
4	8-R	310	GLU	CA-C	-7.12	1.43	1.52
4	1-X	460	LEU	C-O	7.11	1.32	1.24
4	2-X	460	LEU	C-O	7.11	1.32	1.24
4	3-X	460	LEU	C-O	7.11	1.32	1.24
4	4-X	460	LEU	C-O	7.11	1.32	1.24
4	5-X	460	LEU	C-O	7.11	1.32	1.24
4	6-X	460	LEU	C-O	7.11	1.32	1.24
4	7-X	460	LEU	C-O	7.11	1.32	1.24
4	8-X	460	LEU	C-O	7.11	1.32	1.24
5	1-S	321	ASN	N-CA	-7.11	1.36	1.46
5	2-S	321	ASN	N-CA	-7.11	1.36	1.46
5	3-S	321	ASN	N-CA	-7.11	1.36	1.46
5	4-S	321	ASN	N-CA	-7.11	1.36	1.46
5	5-S	321	ASN	N-CA	-7.11	1.36	1.46
5	6-S	321	ASN	N-CA	-7.11	1.36	1.46
5	7-S	321	ASN	N-CA	-7.11	1.36	1.46
5	8-S	321	ASN	N-CA	-7.11	1.36	1.46
4	1-R	460	LEU	C-O	7.11	1.32	1.24
4	2-R	460	LEU	C-O	7.11	1.32	1.24
4	3-R	460	LEU	C-O	7.11	1.32	1.24
4	4-R	460	LEU	C-O	7.11	1.32	1.24
4	5-R	460	LEU	C-O	7.11	1.32	1.24
4	6-R	460	LEU	C-O	7.11	1.32	1.24
4	7-R	460	LEU	C-O	7.11	1.32	1.24
4	8-R	460	LEU	C-O	7.11	1.32	1.24
4	1-L	460	LEU	C-O	7.10	1.32	1.24
4	2-L	460	LEU	C-O	7.10	1.32	1.24
4	3-L	460	LEU	C-O	7.10	1.32	1.24
4	4-L	460	LEU	C-O	7.10	1.32	1.24
4	5-L	460	LEU	C-O	7.10	1.32	1.24
4	6-L	460	LEU	C-O	7.10	1.32	1.24
4	7-L	460	LEU	C-O	7.10	1.32	1.24
4	8-L	460	LEU	C-O	7.10	1.32	1.24
3	1-V	1549	ALA	N-CA	-7.10	1.37	1.46
3	2-V	1549	ALA	N-CA	-7.10	1.37	1.46
3	3-V	1549	ALA	N-CA	-7.10	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-V	1549	ALA	N-CA	-7.10	1.37	1.46
3	5-V	1549	ALA	N-CA	-7.10	1.37	1.46
3	6-V	1549	ALA	N-CA	-7.10	1.37	1.46
3	7-V	1549	ALA	N-CA	-7.10	1.37	1.46
3	8-V	1549	ALA	N-CA	-7.10	1.37	1.46
4	1-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	2-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	3-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	4-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	5-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	6-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	7-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	8-F	306	PRO	CA-CB	-7.10	1.42	1.53
4	1-X	410	LEU	CA-C	-7.10	1.43	1.52
4	2-X	410	LEU	CA-C	-7.10	1.43	1.52
4	3-X	410	LEU	CA-C	-7.10	1.43	1.52
4	4-X	410	LEU	CA-C	-7.10	1.43	1.52
4	5-X	410	LEU	CA-C	-7.10	1.43	1.52
4	6-X	410	LEU	CA-C	-7.10	1.43	1.52
4	7-X	410	LEU	CA-C	-7.10	1.43	1.52
4	8-X	410	LEU	CA-C	-7.10	1.43	1.52
4	1-F	460	LEU	C-O	7.09	1.32	1.24
4	2-F	460	LEU	C-O	7.09	1.32	1.24
4	3-F	460	LEU	C-O	7.09	1.32	1.24
4	4-F	460	LEU	C-O	7.09	1.32	1.24
4	5-F	460	LEU	C-O	7.09	1.32	1.24
4	6-F	460	LEU	C-O	7.09	1.32	1.24
4	7-F	460	LEU	C-O	7.09	1.32	1.24
4	8-F	460	LEU	C-O	7.09	1.32	1.24
3	1-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	2-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	3-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	4-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	5-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	6-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	7-P	1549	ALA	N-CA	-7.09	1.37	1.46
3	8-P	1549	ALA	N-CA	-7.09	1.37	1.46
4	1-X	306	PRO	CA-CB	-7.08	1.42	1.53
4	2-X	306	PRO	CA-CB	-7.08	1.42	1.53
4	3-X	306	PRO	CA-CB	-7.08	1.42	1.53
4	4-X	306	PRO	CA-CB	-7.08	1.42	1.53
4	5-X	306	PRO	CA-CB	-7.08	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-X	306	PRO	CA-CB	-7.08	1.42	1.53
4	7-X	306	PRO	CA-CB	-7.08	1.42	1.53
4	8-X	306	PRO	CA-CB	-7.08	1.42	1.53
3	1-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	2-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	3-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	4-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	5-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	6-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	7-J	1549	ALA	N-CA	-7.08	1.37	1.46
3	8-J	1549	ALA	N-CA	-7.08	1.37	1.46
4	1-F	310	GLU	CA-C	-7.08	1.43	1.52
4	2-F	310	GLU	CA-C	-7.08	1.43	1.52
4	3-F	310	GLU	CA-C	-7.08	1.43	1.52
4	4-F	310	GLU	CA-C	-7.08	1.43	1.52
4	5-F	310	GLU	CA-C	-7.08	1.43	1.52
4	6-F	310	GLU	CA-C	-7.08	1.43	1.52
4	7-F	310	GLU	CA-C	-7.08	1.43	1.52
4	8-F	310	GLU	CA-C	-7.08	1.43	1.52
4	1-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	2-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	3-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	4-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	5-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	6-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	7-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	8-F	339	VAL	CA-CB	-7.07	1.45	1.54
4	1-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	2-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	3-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	4-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	5-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	6-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	7-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	8-R	339	VAL	CA-CB	-7.07	1.45	1.54
4	1-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	2-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	3-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	4-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	5-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	6-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	7-L	306	PRO	CA-CB	-7.07	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	306	PRO	CA-CB	-7.07	1.42	1.53
4	1-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	2-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	3-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	4-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	5-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	6-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	7-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	8-R	306	PRO	CA-CB	-7.06	1.42	1.53
4	1-L	310	GLU	CA-C	-7.05	1.43	1.52
4	2-L	310	GLU	CA-C	-7.05	1.43	1.52
4	3-L	310	GLU	CA-C	-7.05	1.43	1.52
4	4-L	310	GLU	CA-C	-7.05	1.43	1.52
4	5-L	310	GLU	CA-C	-7.05	1.43	1.52
4	6-L	310	GLU	CA-C	-7.05	1.43	1.52
4	7-L	310	GLU	CA-C	-7.05	1.43	1.52
4	8-L	310	GLU	CA-C	-7.05	1.43	1.52
4	1-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	1-L	421	LEU	C-N	7.05	1.42	1.33
4	2-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	2-L	421	LEU	C-N	7.05	1.42	1.33
4	3-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	3-L	421	LEU	C-N	7.05	1.42	1.33
4	4-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	4-L	421	LEU	C-N	7.05	1.42	1.33
4	5-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	5-L	421	LEU	C-N	7.05	1.42	1.33
4	6-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	6-L	421	LEU	C-N	7.05	1.42	1.33
4	7-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	7-L	421	LEU	C-N	7.05	1.42	1.33
4	8-L	339	VAL	CA-CB	-7.05	1.45	1.54
4	8-L	421	LEU	C-N	7.05	1.42	1.33
4	1-X	310	GLU	CA-C	-7.05	1.43	1.52
6	1-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	2-X	310	GLU	CA-C	-7.05	1.43	1.52
6	2-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	3-X	310	GLU	CA-C	-7.05	1.43	1.52
6	3-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	4-X	310	GLU	CA-C	-7.05	1.43	1.52
6	4-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	5-X	310	GLU	CA-C	-7.05	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	5-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	6-X	310	GLU	CA-C	-7.05	1.43	1.52
6	6-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	7-X	310	GLU	CA-C	-7.05	1.43	1.52
6	7-Z	386	GLN	CA-C	-7.05	1.43	1.52
4	8-X	310	GLU	CA-C	-7.05	1.43	1.52
6	8-Z	386	GLN	CA-C	-7.05	1.43	1.52
6	1-N	386	GLN	CA-C	-7.04	1.43	1.52
6	2-N	386	GLN	CA-C	-7.04	1.43	1.52
6	3-N	386	GLN	CA-C	-7.04	1.43	1.52
6	4-N	386	GLN	CA-C	-7.04	1.43	1.52
6	5-N	386	GLN	CA-C	-7.04	1.43	1.52
6	6-N	386	GLN	CA-C	-7.04	1.43	1.52
6	7-N	386	GLN	CA-C	-7.04	1.43	1.52
6	8-N	386	GLN	CA-C	-7.04	1.43	1.52
5	1-M	380	ILE	C-N	7.03	1.48	1.33
5	2-M	380	ILE	C-N	7.03	1.48	1.33
5	3-M	380	ILE	C-N	7.03	1.48	1.33
5	4-M	380	ILE	C-N	7.03	1.48	1.33
5	5-M	380	ILE	C-N	7.03	1.48	1.33
5	6-M	380	ILE	C-N	7.03	1.48	1.33
5	7-M	380	ILE	C-N	7.03	1.48	1.33
5	8-M	380	ILE	C-N	7.03	1.48	1.33
4	1-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	2-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	3-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	4-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	5-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	6-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	7-X	339	VAL	CA-CB	-7.03	1.45	1.54
4	8-X	339	VAL	CA-CB	-7.03	1.45	1.54
5	1-S	380	ILE	C-N	7.03	1.48	1.33
5	2-S	380	ILE	C-N	7.03	1.48	1.33
5	3-S	380	ILE	C-N	7.03	1.48	1.33
5	4-S	380	ILE	C-N	7.03	1.48	1.33
5	5-S	380	ILE	C-N	7.03	1.48	1.33
5	6-S	380	ILE	C-N	7.03	1.48	1.33
5	7-S	380	ILE	C-N	7.03	1.48	1.33
5	8-S	380	ILE	C-N	7.03	1.48	1.33
4	1-F	421	LEU	C-N	7.03	1.42	1.33
4	2-F	421	LEU	C-N	7.03	1.42	1.33
4	3-F	421	LEU	C-N	7.03	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	421	LEU	C-N	7.03	1.42	1.33
4	5-F	421	LEU	C-N	7.03	1.42	1.33
4	6-F	421	LEU	C-N	7.03	1.42	1.33
4	7-F	421	LEU	C-N	7.03	1.42	1.33
4	8-F	421	LEU	C-N	7.03	1.42	1.33
4	1-R	421	LEU	C-N	7.02	1.42	1.33
4	2-R	421	LEU	C-N	7.02	1.42	1.33
4	3-R	421	LEU	C-N	7.02	1.42	1.33
4	4-R	421	LEU	C-N	7.02	1.42	1.33
4	5-R	421	LEU	C-N	7.02	1.42	1.33
4	6-R	421	LEU	C-N	7.02	1.42	1.33
4	7-R	421	LEU	C-N	7.02	1.42	1.33
4	8-R	421	LEU	C-N	7.02	1.42	1.33
5	1-Y	380	ILE	C-N	7.02	1.48	1.33
5	2-Y	380	ILE	C-N	7.02	1.48	1.33
5	3-Y	380	ILE	C-N	7.02	1.48	1.33
5	4-Y	380	ILE	C-N	7.02	1.48	1.33
5	5-Y	380	ILE	C-N	7.02	1.48	1.33
5	6-Y	380	ILE	C-N	7.02	1.48	1.33
5	7-Y	380	ILE	C-N	7.02	1.48	1.33
5	8-Y	380	ILE	C-N	7.02	1.48	1.33
6	1-H	386	GLN	CA-C	-7.01	1.43	1.52
6	2-H	386	GLN	CA-C	-7.01	1.43	1.52
6	3-H	386	GLN	CA-C	-7.01	1.43	1.52
6	4-H	386	GLN	CA-C	-7.01	1.43	1.52
6	5-H	386	GLN	CA-C	-7.01	1.43	1.52
6	6-H	386	GLN	CA-C	-7.01	1.43	1.52
6	7-H	386	GLN	CA-C	-7.01	1.43	1.52
6	8-H	386	GLN	CA-C	-7.01	1.43	1.52
5	1-G	380	ILE	C-N	7.01	1.48	1.33
6	1-T	386	GLN	CA-C	-7.01	1.43	1.52
5	2-G	380	ILE	C-N	7.01	1.48	1.33
6	2-T	386	GLN	CA-C	-7.01	1.43	1.52
5	3-G	380	ILE	C-N	7.01	1.48	1.33
6	3-T	386	GLN	CA-C	-7.01	1.43	1.52
5	4-G	380	ILE	C-N	7.01	1.48	1.33
6	4-T	386	GLN	CA-C	-7.01	1.43	1.52
5	5-G	380	ILE	C-N	7.01	1.48	1.33
6	5-T	386	GLN	CA-C	-7.01	1.43	1.52
5	6-G	380	ILE	C-N	7.01	1.48	1.33
6	6-T	386	GLN	CA-C	-7.01	1.43	1.52
5	7-G	380	ILE	C-N	7.01	1.48	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	7-T	386	GLN	CA-C	-7.01	1.43	1.52
5	8-G	380	ILE	C-N	7.01	1.48	1.33
6	8-T	386	GLN	CA-C	-7.01	1.43	1.52
6	1-T	414	VAL	N-CA	6.98	1.54	1.46
6	1-Z	414	VAL	N-CA	6.98	1.54	1.46
6	2-T	414	VAL	N-CA	6.98	1.54	1.46
6	2-Z	414	VAL	N-CA	6.98	1.54	1.46
6	3-T	414	VAL	N-CA	6.98	1.54	1.46
6	3-Z	414	VAL	N-CA	6.98	1.54	1.46
6	4-T	414	VAL	N-CA	6.98	1.54	1.46
6	4-Z	414	VAL	N-CA	6.98	1.54	1.46
6	5-T	414	VAL	N-CA	6.98	1.54	1.46
6	5-Z	414	VAL	N-CA	6.98	1.54	1.46
6	6-T	414	VAL	N-CA	6.98	1.54	1.46
6	6-Z	414	VAL	N-CA	6.98	1.54	1.46
6	7-T	414	VAL	N-CA	6.98	1.54	1.46
6	7-Z	414	VAL	N-CA	6.98	1.54	1.46
6	8-T	414	VAL	N-CA	6.98	1.54	1.46
6	8-Z	414	VAL	N-CA	6.98	1.54	1.46
4	1-X	421	LEU	C-N	6.98	1.42	1.33
4	2-X	421	LEU	C-N	6.98	1.42	1.33
4	3-X	421	LEU	C-N	6.98	1.42	1.33
4	4-X	421	LEU	C-N	6.98	1.42	1.33
4	5-X	421	LEU	C-N	6.98	1.42	1.33
4	6-X	421	LEU	C-N	6.98	1.42	1.33
4	7-X	421	LEU	C-N	6.98	1.42	1.33
4	8-X	421	LEU	C-N	6.98	1.42	1.33
4	1-F	397	ARG	N-CA	-6.97	1.37	1.46
6	1-H	414	VAL	N-CA	6.97	1.54	1.46
6	1-N	414	VAL	N-CA	6.97	1.54	1.46
4	2-F	397	ARG	N-CA	-6.97	1.37	1.46
6	2-H	414	VAL	N-CA	6.97	1.54	1.46
6	2-N	414	VAL	N-CA	6.97	1.54	1.46
4	3-F	397	ARG	N-CA	-6.97	1.37	1.46
6	3-H	414	VAL	N-CA	6.97	1.54	1.46
6	3-N	414	VAL	N-CA	6.97	1.54	1.46
4	4-F	397	ARG	N-CA	-6.97	1.37	1.46
6	4-H	414	VAL	N-CA	6.97	1.54	1.46
6	4-N	414	VAL	N-CA	6.97	1.54	1.46
4	5-F	397	ARG	N-CA	-6.97	1.37	1.46
6	5-H	414	VAL	N-CA	6.97	1.54	1.46
6	5-N	414	VAL	N-CA	6.97	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	397	ARG	N-CA	-6.97	1.37	1.46
6	6-H	414	VAL	N-CA	6.97	1.54	1.46
6	6-N	414	VAL	N-CA	6.97	1.54	1.46
4	7-F	397	ARG	N-CA	-6.97	1.37	1.46
6	7-H	414	VAL	N-CA	6.97	1.54	1.46
6	7-N	414	VAL	N-CA	6.97	1.54	1.46
4	8-F	397	ARG	N-CA	-6.97	1.37	1.46
6	8-H	414	VAL	N-CA	6.97	1.54	1.46
6	8-N	414	VAL	N-CA	6.97	1.54	1.46
5	1-Y	323	GLU	N-CA	6.97	1.55	1.46
5	2-Y	323	GLU	N-CA	6.97	1.55	1.46
5	3-Y	323	GLU	N-CA	6.97	1.55	1.46
5	4-Y	323	GLU	N-CA	6.97	1.55	1.46
5	5-Y	323	GLU	N-CA	6.97	1.55	1.46
5	6-Y	323	GLU	N-CA	6.97	1.55	1.46
5	7-Y	323	GLU	N-CA	6.97	1.55	1.46
5	8-Y	323	GLU	N-CA	6.97	1.55	1.46
4	1-R	397	ARG	N-CA	-6.97	1.37	1.46
4	2-R	397	ARG	N-CA	-6.97	1.37	1.46
4	3-R	397	ARG	N-CA	-6.97	1.37	1.46
4	4-R	397	ARG	N-CA	-6.97	1.37	1.46
4	5-R	397	ARG	N-CA	-6.97	1.37	1.46
4	6-R	397	ARG	N-CA	-6.97	1.37	1.46
4	7-R	397	ARG	N-CA	-6.97	1.37	1.46
4	8-R	397	ARG	N-CA	-6.97	1.37	1.46
5	1-S	323	GLU	N-CA	6.96	1.55	1.46
5	2-S	323	GLU	N-CA	6.96	1.55	1.46
5	3-S	323	GLU	N-CA	6.96	1.55	1.46
5	4-S	323	GLU	N-CA	6.96	1.55	1.46
5	5-S	323	GLU	N-CA	6.96	1.55	1.46
5	6-S	323	GLU	N-CA	6.96	1.55	1.46
5	7-S	323	GLU	N-CA	6.96	1.55	1.46
5	8-S	323	GLU	N-CA	6.96	1.55	1.46
3	1-J	1494	MET	N-CA	-6.96	1.37	1.46
3	2-J	1494	MET	N-CA	-6.96	1.37	1.46
3	3-J	1494	MET	N-CA	-6.96	1.37	1.46
3	4-J	1494	MET	N-CA	-6.96	1.37	1.46
3	5-J	1494	MET	N-CA	-6.96	1.37	1.46
3	6-J	1494	MET	N-CA	-6.96	1.37	1.46
3	7-J	1494	MET	N-CA	-6.96	1.37	1.46
3	8-J	1494	MET	N-CA	-6.96	1.37	1.46
4	1-X	460	LEU	C-N	6.96	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	460	LEU	C-N	6.96	1.43	1.33
4	3-X	460	LEU	C-N	6.96	1.43	1.33
4	4-X	460	LEU	C-N	6.96	1.43	1.33
4	5-X	460	LEU	C-N	6.96	1.43	1.33
4	6-X	460	LEU	C-N	6.96	1.43	1.33
4	7-X	460	LEU	C-N	6.96	1.43	1.33
4	8-X	460	LEU	C-N	6.96	1.43	1.33
4	1-X	397	ARG	N-CA	-6.95	1.37	1.46
4	2-X	397	ARG	N-CA	-6.95	1.37	1.46
4	3-X	397	ARG	N-CA	-6.95	1.37	1.46
4	4-X	397	ARG	N-CA	-6.95	1.37	1.46
4	5-X	397	ARG	N-CA	-6.95	1.37	1.46
4	6-X	397	ARG	N-CA	-6.95	1.37	1.46
4	7-X	397	ARG	N-CA	-6.95	1.37	1.46
4	8-X	397	ARG	N-CA	-6.95	1.37	1.46
5	1-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	2-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	3-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	4-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	5-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	6-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	7-Y	406	ILE	CA-C	-6.95	1.44	1.52
5	8-Y	406	ILE	CA-C	-6.95	1.44	1.52
4	1-L	397	ARG	N-CA	-6.95	1.37	1.46
4	2-L	397	ARG	N-CA	-6.95	1.37	1.46
4	3-L	397	ARG	N-CA	-6.95	1.37	1.46
4	4-L	397	ARG	N-CA	-6.95	1.37	1.46
4	5-L	397	ARG	N-CA	-6.95	1.37	1.46
4	6-L	397	ARG	N-CA	-6.95	1.37	1.46
4	7-L	397	ARG	N-CA	-6.95	1.37	1.46
4	8-L	397	ARG	N-CA	-6.95	1.37	1.46
5	1-M	323	GLU	N-CA	6.94	1.55	1.46
5	2-M	323	GLU	N-CA	6.94	1.55	1.46
5	3-M	323	GLU	N-CA	6.94	1.55	1.46
5	4-M	323	GLU	N-CA	6.94	1.55	1.46
5	5-M	323	GLU	N-CA	6.94	1.55	1.46
5	6-M	323	GLU	N-CA	6.94	1.55	1.46
5	7-M	323	GLU	N-CA	6.94	1.55	1.46
5	8-M	323	GLU	N-CA	6.94	1.55	1.46
4	1-L	460	LEU	C-N	6.94	1.43	1.33
4	2-L	460	LEU	C-N	6.94	1.43	1.33
4	3-L	460	LEU	C-N	6.94	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	460	LEU	C-N	6.94	1.43	1.33
4	5-L	460	LEU	C-N	6.94	1.43	1.33
4	6-L	460	LEU	C-N	6.94	1.43	1.33
4	7-L	460	LEU	C-N	6.94	1.43	1.33
4	8-L	460	LEU	C-N	6.94	1.43	1.33
5	1-S	406	ILE	CA-C	-6.94	1.44	1.52
5	2-S	406	ILE	CA-C	-6.94	1.44	1.52
5	3-S	406	ILE	CA-C	-6.94	1.44	1.52
5	4-S	406	ILE	CA-C	-6.94	1.44	1.52
5	5-S	406	ILE	CA-C	-6.94	1.44	1.52
5	6-S	406	ILE	CA-C	-6.94	1.44	1.52
5	7-S	406	ILE	CA-C	-6.94	1.44	1.52
5	8-S	406	ILE	CA-C	-6.94	1.44	1.52
4	1-R	460	LEU	C-N	6.94	1.43	1.33
4	2-R	460	LEU	C-N	6.94	1.43	1.33
4	3-R	460	LEU	C-N	6.94	1.43	1.33
4	4-R	460	LEU	C-N	6.94	1.43	1.33
4	5-R	460	LEU	C-N	6.94	1.43	1.33
4	6-R	460	LEU	C-N	6.94	1.43	1.33
4	7-R	460	LEU	C-N	6.94	1.43	1.33
4	8-R	460	LEU	C-N	6.94	1.43	1.33
3	1-P	1494	MET	N-CA	-6.93	1.37	1.46
6	1-T	363	ARG	CA-CB	6.93	1.64	1.53
3	2-P	1494	MET	N-CA	-6.93	1.37	1.46
6	2-T	363	ARG	CA-CB	6.93	1.64	1.53
3	3-P	1494	MET	N-CA	-6.93	1.37	1.46
6	3-T	363	ARG	CA-CB	6.93	1.64	1.53
3	4-P	1494	MET	N-CA	-6.93	1.37	1.46
6	4-T	363	ARG	CA-CB	6.93	1.64	1.53
3	5-P	1494	MET	N-CA	-6.93	1.37	1.46
6	5-T	363	ARG	CA-CB	6.93	1.64	1.53
3	6-P	1494	MET	N-CA	-6.93	1.37	1.46
6	6-T	363	ARG	CA-CB	6.93	1.64	1.53
3	7-P	1494	MET	N-CA	-6.93	1.37	1.46
6	7-T	363	ARG	CA-CB	6.93	1.64	1.53
3	8-P	1494	MET	N-CA	-6.93	1.37	1.46
6	8-T	363	ARG	CA-CB	6.93	1.64	1.53
6	1-H	363	ARG	CA-CB	6.93	1.64	1.53
6	2-H	363	ARG	CA-CB	6.93	1.64	1.53
6	3-H	363	ARG	CA-CB	6.93	1.64	1.53
6	4-H	363	ARG	CA-CB	6.93	1.64	1.53
6	5-H	363	ARG	CA-CB	6.93	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-H	363	ARG	CA-CB	6.93	1.64	1.53
6	7-H	363	ARG	CA-CB	6.93	1.64	1.53
6	8-H	363	ARG	CA-CB	6.93	1.64	1.53
4	1-F	460	LEU	C-N	6.92	1.43	1.33
5	1-G	323	GLU	N-CA	6.92	1.55	1.46
4	2-F	460	LEU	C-N	6.92	1.43	1.33
5	2-G	323	GLU	N-CA	6.92	1.55	1.46
4	3-F	460	LEU	C-N	6.92	1.43	1.33
5	3-G	323	GLU	N-CA	6.92	1.55	1.46
4	4-F	460	LEU	C-N	6.92	1.43	1.33
5	4-G	323	GLU	N-CA	6.92	1.55	1.46
4	5-F	460	LEU	C-N	6.92	1.43	1.33
5	5-G	323	GLU	N-CA	6.92	1.55	1.46
4	6-F	460	LEU	C-N	6.92	1.43	1.33
5	6-G	323	GLU	N-CA	6.92	1.55	1.46
4	7-F	460	LEU	C-N	6.92	1.43	1.33
5	7-G	323	GLU	N-CA	6.92	1.55	1.46
4	8-F	460	LEU	C-N	6.92	1.43	1.33
5	8-G	323	GLU	N-CA	6.92	1.55	1.46
5	1-G	406	ILE	CA-C	-6.92	1.44	1.52
5	1-M	406	ILE	CA-C	-6.92	1.44	1.52
5	2-G	406	ILE	CA-C	-6.92	1.44	1.52
5	2-M	406	ILE	CA-C	-6.92	1.44	1.52
5	3-G	406	ILE	CA-C	-6.92	1.44	1.52
5	3-M	406	ILE	CA-C	-6.92	1.44	1.52
5	4-G	406	ILE	CA-C	-6.92	1.44	1.52
5	4-M	406	ILE	CA-C	-6.92	1.44	1.52
5	5-G	406	ILE	CA-C	-6.92	1.44	1.52
5	5-M	406	ILE	CA-C	-6.92	1.44	1.52
5	6-G	406	ILE	CA-C	-6.92	1.44	1.52
5	6-M	406	ILE	CA-C	-6.92	1.44	1.52
5	7-G	406	ILE	CA-C	-6.92	1.44	1.52
5	7-M	406	ILE	CA-C	-6.92	1.44	1.52
5	8-G	406	ILE	CA-C	-6.92	1.44	1.52
5	8-M	406	ILE	CA-C	-6.92	1.44	1.52
5	1-G	345	TYR	C-O	-6.92	1.15	1.24
5	2-G	345	TYR	C-O	-6.92	1.15	1.24
5	3-G	345	TYR	C-O	-6.92	1.15	1.24
5	4-G	345	TYR	C-O	-6.92	1.15	1.24
5	5-G	345	TYR	C-O	-6.92	1.15	1.24
5	6-G	345	TYR	C-O	-6.92	1.15	1.24
5	7-G	345	TYR	C-O	-6.92	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-G	345	TYR	C-O	-6.92	1.15	1.24
3	1-D	1494	MET	N-CA	-6.91	1.37	1.46
4	1-F	408	GLU	N-CA	-6.91	1.37	1.46
3	2-D	1494	MET	N-CA	-6.91	1.37	1.46
4	2-F	408	GLU	N-CA	-6.91	1.37	1.46
3	3-D	1494	MET	N-CA	-6.91	1.37	1.46
4	3-F	408	GLU	N-CA	-6.91	1.37	1.46
3	4-D	1494	MET	N-CA	-6.91	1.37	1.46
4	4-F	408	GLU	N-CA	-6.91	1.37	1.46
3	5-D	1494	MET	N-CA	-6.91	1.37	1.46
4	5-F	408	GLU	N-CA	-6.91	1.37	1.46
3	6-D	1494	MET	N-CA	-6.91	1.37	1.46
4	6-F	408	GLU	N-CA	-6.91	1.37	1.46
3	7-D	1494	MET	N-CA	-6.91	1.37	1.46
4	7-F	408	GLU	N-CA	-6.91	1.37	1.46
3	8-D	1494	MET	N-CA	-6.91	1.37	1.46
4	8-F	408	GLU	N-CA	-6.91	1.37	1.46
6	1-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	2-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	3-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	4-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	5-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	6-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	7-Z	363	ARG	CA-CB	6.91	1.64	1.53
6	8-Z	363	ARG	CA-CB	6.91	1.64	1.53
5	1-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	2-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	3-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	4-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	5-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	6-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	7-Y	373	THR	CA-CB	-6.91	1.42	1.53
5	8-Y	373	THR	CA-CB	-6.91	1.42	1.53
4	1-L	408	GLU	N-CA	-6.91	1.37	1.46
4	1-R	443	HIS	C-O	6.91	1.32	1.24
4	2-L	408	GLU	N-CA	-6.91	1.37	1.46
4	2-R	443	HIS	C-O	6.91	1.32	1.24
4	3-L	408	GLU	N-CA	-6.91	1.37	1.46
4	3-R	443	HIS	C-O	6.91	1.32	1.24
4	4-L	408	GLU	N-CA	-6.91	1.37	1.46
4	4-R	443	HIS	C-O	6.91	1.32	1.24
4	5-L	408	GLU	N-CA	-6.91	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-R	443	HIS	C-O	6.91	1.32	1.24
4	6-L	408	GLU	N-CA	-6.91	1.37	1.46
4	6-R	443	HIS	C-O	6.91	1.32	1.24
4	7-L	408	GLU	N-CA	-6.91	1.37	1.46
4	7-R	443	HIS	C-O	6.91	1.32	1.24
4	8-L	408	GLU	N-CA	-6.91	1.37	1.46
4	8-R	443	HIS	C-O	6.91	1.32	1.24
4	1-X	408	GLU	N-CA	-6.90	1.37	1.46
4	2-X	408	GLU	N-CA	-6.90	1.37	1.46
4	3-X	408	GLU	N-CA	-6.90	1.37	1.46
4	4-X	408	GLU	N-CA	-6.90	1.37	1.46
4	5-X	408	GLU	N-CA	-6.90	1.37	1.46
4	6-X	408	GLU	N-CA	-6.90	1.37	1.46
4	7-X	408	GLU	N-CA	-6.90	1.37	1.46
4	8-X	408	GLU	N-CA	-6.90	1.37	1.46
4	1-R	408	GLU	N-CA	-6.90	1.37	1.46
4	2-R	408	GLU	N-CA	-6.90	1.37	1.46
4	3-R	408	GLU	N-CA	-6.90	1.37	1.46
4	4-R	408	GLU	N-CA	-6.90	1.37	1.46
4	5-R	408	GLU	N-CA	-6.90	1.37	1.46
4	6-R	408	GLU	N-CA	-6.90	1.37	1.46
4	7-R	408	GLU	N-CA	-6.90	1.37	1.46
4	8-R	408	GLU	N-CA	-6.90	1.37	1.46
6	1-N	363	ARG	CA-CB	6.90	1.64	1.53
5	1-S	373	THR	CA-CB	-6.90	1.42	1.53
6	2-N	363	ARG	CA-CB	6.90	1.64	1.53
5	2-S	373	THR	CA-CB	-6.90	1.42	1.53
6	3-N	363	ARG	CA-CB	6.90	1.64	1.53
5	3-S	373	THR	CA-CB	-6.90	1.42	1.53
6	4-N	363	ARG	CA-CB	6.90	1.64	1.53
5	4-S	373	THR	CA-CB	-6.90	1.42	1.53
6	5-N	363	ARG	CA-CB	6.90	1.64	1.53
5	5-S	373	THR	CA-CB	-6.90	1.42	1.53
6	6-N	363	ARG	CA-CB	6.90	1.64	1.53
5	6-S	373	THR	CA-CB	-6.90	1.42	1.53
6	7-N	363	ARG	CA-CB	6.90	1.64	1.53
5	7-S	373	THR	CA-CB	-6.90	1.42	1.53
6	8-N	363	ARG	CA-CB	6.90	1.64	1.53
5	8-S	373	THR	CA-CB	-6.90	1.42	1.53
5	1-G	373	THR	CA-CB	-6.89	1.42	1.53
5	2-G	373	THR	CA-CB	-6.89	1.42	1.53
5	3-G	373	THR	CA-CB	-6.89	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-G	373	THR	CA-CB	-6.89	1.42	1.53
5	5-G	373	THR	CA-CB	-6.89	1.42	1.53
5	6-G	373	THR	CA-CB	-6.89	1.42	1.53
5	7-G	373	THR	CA-CB	-6.89	1.42	1.53
5	8-G	373	THR	CA-CB	-6.89	1.42	1.53
4	1-X	443	HIS	C-O	6.88	1.32	1.24
4	2-X	443	HIS	C-O	6.88	1.32	1.24
4	3-X	443	HIS	C-O	6.88	1.32	1.24
4	4-X	443	HIS	C-O	6.88	1.32	1.24
4	5-X	443	HIS	C-O	6.88	1.32	1.24
4	6-X	443	HIS	C-O	6.88	1.32	1.24
4	7-X	443	HIS	C-O	6.88	1.32	1.24
4	8-X	443	HIS	C-O	6.88	1.32	1.24
5	1-S	345	TYR	C-O	-6.88	1.15	1.24
5	2-S	345	TYR	C-O	-6.88	1.15	1.24
5	3-S	345	TYR	C-O	-6.88	1.15	1.24
5	4-S	345	TYR	C-O	-6.88	1.15	1.24
5	5-S	345	TYR	C-O	-6.88	1.15	1.24
5	6-S	345	TYR	C-O	-6.88	1.15	1.24
5	7-S	345	TYR	C-O	-6.88	1.15	1.24
5	8-S	345	TYR	C-O	-6.88	1.15	1.24
5	1-M	345	TYR	C-O	-6.87	1.15	1.24
5	1-S	343	ALA	C-O	6.87	1.32	1.24
3	1-V	1494	MET	N-CA	-6.87	1.38	1.46
5	1-Y	345	TYR	C-O	-6.87	1.15	1.24
5	2-M	345	TYR	C-O	-6.87	1.15	1.24
5	2-S	343	ALA	C-O	6.87	1.32	1.24
3	2-V	1494	MET	N-CA	-6.87	1.38	1.46
5	2-Y	345	TYR	C-O	-6.87	1.15	1.24
5	3-M	345	TYR	C-O	-6.87	1.15	1.24
5	3-S	343	ALA	C-O	6.87	1.32	1.24
3	3-V	1494	MET	N-CA	-6.87	1.38	1.46
5	3-Y	345	TYR	C-O	-6.87	1.15	1.24
5	4-M	345	TYR	C-O	-6.87	1.15	1.24
5	4-S	343	ALA	C-O	6.87	1.32	1.24
3	4-V	1494	MET	N-CA	-6.87	1.38	1.46
5	4-Y	345	TYR	C-O	-6.87	1.15	1.24
5	5-M	345	TYR	C-O	-6.87	1.15	1.24
5	5-S	343	ALA	C-O	6.87	1.32	1.24
3	5-V	1494	MET	N-CA	-6.87	1.38	1.46
5	5-Y	345	TYR	C-O	-6.87	1.15	1.24
5	6-M	345	TYR	C-O	-6.87	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-S	343	ALA	C-O	6.87	1.32	1.24
3	6-V	1494	MET	N-CA	-6.87	1.38	1.46
5	6-Y	345	TYR	C-O	-6.87	1.15	1.24
5	7-M	345	TYR	C-O	-6.87	1.15	1.24
5	7-S	343	ALA	C-O	6.87	1.32	1.24
3	7-V	1494	MET	N-CA	-6.87	1.38	1.46
5	7-Y	345	TYR	C-O	-6.87	1.15	1.24
5	8-M	345	TYR	C-O	-6.87	1.15	1.24
5	8-S	343	ALA	C-O	6.87	1.32	1.24
3	8-V	1494	MET	N-CA	-6.87	1.38	1.46
5	8-Y	345	TYR	C-O	-6.87	1.15	1.24
5	1-M	373	THR	CA-CB	-6.87	1.42	1.53
5	2-M	373	THR	CA-CB	-6.87	1.42	1.53
5	3-M	373	THR	CA-CB	-6.87	1.42	1.53
5	4-M	373	THR	CA-CB	-6.87	1.42	1.53
5	5-M	373	THR	CA-CB	-6.87	1.42	1.53
5	6-M	373	THR	CA-CB	-6.87	1.42	1.53
5	7-M	373	THR	CA-CB	-6.87	1.42	1.53
5	8-M	373	THR	CA-CB	-6.87	1.42	1.53
4	1-L	443	HIS	C-O	6.85	1.32	1.24
4	2-L	443	HIS	C-O	6.85	1.32	1.24
4	3-L	443	HIS	C-O	6.85	1.32	1.24
4	4-L	443	HIS	C-O	6.85	1.32	1.24
4	5-L	443	HIS	C-O	6.85	1.32	1.24
4	6-L	443	HIS	C-O	6.85	1.32	1.24
4	7-L	443	HIS	C-O	6.85	1.32	1.24
4	8-L	443	HIS	C-O	6.85	1.32	1.24
4	1-F	443	HIS	C-O	6.85	1.32	1.24
6	1-H	352	LEU	N-CA	-6.85	1.38	1.46
4	2-F	443	HIS	C-O	6.85	1.32	1.24
6	2-H	352	LEU	N-CA	-6.85	1.38	1.46
4	3-F	443	HIS	C-O	6.85	1.32	1.24
6	3-H	352	LEU	N-CA	-6.85	1.38	1.46
4	4-F	443	HIS	C-O	6.85	1.32	1.24
6	4-H	352	LEU	N-CA	-6.85	1.38	1.46
4	5-F	443	HIS	C-O	6.85	1.32	1.24
6	5-H	352	LEU	N-CA	-6.85	1.38	1.46
4	6-F	443	HIS	C-O	6.85	1.32	1.24
6	6-H	352	LEU	N-CA	-6.85	1.38	1.46
4	7-F	443	HIS	C-O	6.85	1.32	1.24
6	7-H	352	LEU	N-CA	-6.85	1.38	1.46
4	8-F	443	HIS	C-O	6.85	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-H	352	LEU	N-CA	-6.85	1.38	1.46
6	1-T	352	LEU	N-CA	-6.85	1.38	1.46
6	2-T	352	LEU	N-CA	-6.85	1.38	1.46
6	3-T	352	LEU	N-CA	-6.85	1.38	1.46
6	4-T	352	LEU	N-CA	-6.85	1.38	1.46
6	5-T	352	LEU	N-CA	-6.85	1.38	1.46
6	6-T	352	LEU	N-CA	-6.85	1.38	1.46
6	7-T	352	LEU	N-CA	-6.85	1.38	1.46
6	8-T	352	LEU	N-CA	-6.85	1.38	1.46
5	1-Y	343	ALA	C-O	6.84	1.32	1.24
5	2-Y	343	ALA	C-O	6.84	1.32	1.24
5	3-Y	343	ALA	C-O	6.84	1.32	1.24
5	4-Y	343	ALA	C-O	6.84	1.32	1.24
5	5-Y	343	ALA	C-O	6.84	1.32	1.24
5	6-Y	343	ALA	C-O	6.84	1.32	1.24
5	7-Y	343	ALA	C-O	6.84	1.32	1.24
5	8-Y	343	ALA	C-O	6.84	1.32	1.24
5	1-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	2-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	3-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	4-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	5-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	6-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	7-Y	264	GLU	CA-C	-6.83	1.43	1.52
5	8-Y	264	GLU	CA-C	-6.83	1.43	1.52
6	1-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	2-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	3-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	4-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	5-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	6-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	7-Z	352	LEU	N-CA	-6.83	1.38	1.46
6	8-Z	352	LEU	N-CA	-6.83	1.38	1.46
5	1-G	343	ALA	C-O	6.82	1.32	1.24
5	2-G	343	ALA	C-O	6.82	1.32	1.24
5	3-G	343	ALA	C-O	6.82	1.32	1.24
5	4-G	343	ALA	C-O	6.82	1.32	1.24
5	5-G	343	ALA	C-O	6.82	1.32	1.24
5	6-G	343	ALA	C-O	6.82	1.32	1.24
5	7-G	343	ALA	C-O	6.82	1.32	1.24
5	8-G	343	ALA	C-O	6.82	1.32	1.24
5	1-M	343	ALA	C-O	6.80	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-M	343	ALA	C-O	6.80	1.32	1.24
5	3-M	343	ALA	C-O	6.80	1.32	1.24
5	4-M	343	ALA	C-O	6.80	1.32	1.24
5	5-M	343	ALA	C-O	6.80	1.32	1.24
5	6-M	343	ALA	C-O	6.80	1.32	1.24
5	7-M	343	ALA	C-O	6.80	1.32	1.24
5	8-M	343	ALA	C-O	6.80	1.32	1.24
6	1-N	362	ASP	CA-C	-6.79	1.43	1.52
6	2-N	362	ASP	CA-C	-6.79	1.43	1.52
6	3-N	362	ASP	CA-C	-6.79	1.43	1.52
6	4-N	362	ASP	CA-C	-6.79	1.43	1.52
6	5-N	362	ASP	CA-C	-6.79	1.43	1.52
6	6-N	362	ASP	CA-C	-6.79	1.43	1.52
6	7-N	362	ASP	CA-C	-6.79	1.43	1.52
6	8-N	362	ASP	CA-C	-6.79	1.43	1.52
6	1-N	352	LEU	N-CA	-6.79	1.38	1.46
4	1-X	398	LYS	N-CA	-6.79	1.37	1.46
6	2-N	352	LEU	N-CA	-6.79	1.38	1.46
4	2-X	398	LYS	N-CA	-6.79	1.37	1.46
6	3-N	352	LEU	N-CA	-6.79	1.38	1.46
4	3-X	398	LYS	N-CA	-6.79	1.37	1.46
6	4-N	352	LEU	N-CA	-6.79	1.38	1.46
4	4-X	398	LYS	N-CA	-6.79	1.37	1.46
6	5-N	352	LEU	N-CA	-6.79	1.38	1.46
4	5-X	398	LYS	N-CA	-6.79	1.37	1.46
6	6-N	352	LEU	N-CA	-6.79	1.38	1.46
4	6-X	398	LYS	N-CA	-6.79	1.37	1.46
6	7-N	352	LEU	N-CA	-6.79	1.38	1.46
4	7-X	398	LYS	N-CA	-6.79	1.37	1.46
6	8-N	352	LEU	N-CA	-6.79	1.38	1.46
4	8-X	398	LYS	N-CA	-6.79	1.37	1.46
5	1-M	264	GLU	CA-C	-6.78	1.44	1.52
5	2-M	264	GLU	CA-C	-6.78	1.44	1.52
5	3-M	264	GLU	CA-C	-6.78	1.44	1.52
5	4-M	264	GLU	CA-C	-6.78	1.44	1.52
5	5-M	264	GLU	CA-C	-6.78	1.44	1.52
5	6-M	264	GLU	CA-C	-6.78	1.44	1.52
5	7-M	264	GLU	CA-C	-6.78	1.44	1.52
5	8-M	264	GLU	CA-C	-6.78	1.44	1.52
3	1-J	1538	SER	C-N	6.78	1.43	1.34
4	1-L	398	LYS	N-CA	-6.78	1.37	1.46
4	1-X	399	SER	CA-C	-6.78	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-J	1538	SER	C-N	6.78	1.43	1.34
4	2-L	398	LYS	N-CA	-6.78	1.37	1.46
4	2-X	399	SER	CA-C	-6.78	1.43	1.52
3	3-J	1538	SER	C-N	6.78	1.43	1.34
4	3-L	398	LYS	N-CA	-6.78	1.37	1.46
4	3-X	399	SER	CA-C	-6.78	1.43	1.52
3	4-J	1538	SER	C-N	6.78	1.43	1.34
4	4-L	398	LYS	N-CA	-6.78	1.37	1.46
4	4-X	399	SER	CA-C	-6.78	1.43	1.52
3	5-J	1538	SER	C-N	6.78	1.43	1.34
4	5-L	398	LYS	N-CA	-6.78	1.37	1.46
4	5-X	399	SER	CA-C	-6.78	1.43	1.52
3	6-J	1538	SER	C-N	6.78	1.43	1.34
4	6-L	398	LYS	N-CA	-6.78	1.37	1.46
4	6-X	399	SER	CA-C	-6.78	1.43	1.52
3	7-J	1538	SER	C-N	6.78	1.43	1.34
4	7-L	398	LYS	N-CA	-6.78	1.37	1.46
4	7-X	399	SER	CA-C	-6.78	1.43	1.52
3	8-J	1538	SER	C-N	6.78	1.43	1.34
4	8-L	398	LYS	N-CA	-6.78	1.37	1.46
4	8-X	399	SER	CA-C	-6.78	1.43	1.52
6	1-H	362	ASP	CA-C	-6.77	1.43	1.52
6	2-H	362	ASP	CA-C	-6.77	1.43	1.52
6	3-H	362	ASP	CA-C	-6.77	1.43	1.52
6	4-H	362	ASP	CA-C	-6.77	1.43	1.52
6	5-H	362	ASP	CA-C	-6.77	1.43	1.52
6	6-H	362	ASP	CA-C	-6.77	1.43	1.52
6	7-H	362	ASP	CA-C	-6.77	1.43	1.52
6	8-H	362	ASP	CA-C	-6.77	1.43	1.52
5	1-G	264	GLU	CA-C	-6.77	1.44	1.52
5	2-G	264	GLU	CA-C	-6.77	1.44	1.52
5	3-G	264	GLU	CA-C	-6.77	1.44	1.52
5	4-G	264	GLU	CA-C	-6.77	1.44	1.52
5	5-G	264	GLU	CA-C	-6.77	1.44	1.52
5	6-G	264	GLU	CA-C	-6.77	1.44	1.52
5	7-G	264	GLU	CA-C	-6.77	1.44	1.52
5	8-G	264	GLU	CA-C	-6.77	1.44	1.52
4	1-F	399	SER	CA-C	-6.76	1.43	1.52
4	2-F	399	SER	CA-C	-6.76	1.43	1.52
4	3-F	399	SER	CA-C	-6.76	1.43	1.52
4	4-F	399	SER	CA-C	-6.76	1.43	1.52
4	5-F	399	SER	CA-C	-6.76	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	399	SER	CA-C	-6.76	1.43	1.52
4	7-F	399	SER	CA-C	-6.76	1.43	1.52
4	8-F	399	SER	CA-C	-6.76	1.43	1.52
3	1-P	1538	SER	C-N	6.76	1.43	1.34
3	2-P	1538	SER	C-N	6.76	1.43	1.34
3	3-P	1538	SER	C-N	6.76	1.43	1.34
3	4-P	1538	SER	C-N	6.76	1.43	1.34
3	5-P	1538	SER	C-N	6.76	1.43	1.34
3	6-P	1538	SER	C-N	6.76	1.43	1.34
3	7-P	1538	SER	C-N	6.76	1.43	1.34
3	8-P	1538	SER	C-N	6.76	1.43	1.34
4	1-R	398	LYS	N-CA	-6.76	1.37	1.46
4	2-R	398	LYS	N-CA	-6.76	1.37	1.46
4	3-R	398	LYS	N-CA	-6.76	1.37	1.46
4	4-R	398	LYS	N-CA	-6.76	1.37	1.46
4	5-R	398	LYS	N-CA	-6.76	1.37	1.46
4	6-R	398	LYS	N-CA	-6.76	1.37	1.46
4	7-R	398	LYS	N-CA	-6.76	1.37	1.46
4	8-R	398	LYS	N-CA	-6.76	1.37	1.46
3	1-V	1538	SER	C-N	6.75	1.43	1.34
3	2-V	1538	SER	C-N	6.75	1.43	1.34
3	3-V	1538	SER	C-N	6.75	1.43	1.34
3	4-V	1538	SER	C-N	6.75	1.43	1.34
3	5-V	1538	SER	C-N	6.75	1.43	1.34
3	6-V	1538	SER	C-N	6.75	1.43	1.34
3	7-V	1538	SER	C-N	6.75	1.43	1.34
3	8-V	1538	SER	C-N	6.75	1.43	1.34
5	1-S	264	GLU	CA-C	-6.75	1.44	1.52
5	2-S	264	GLU	CA-C	-6.75	1.44	1.52
5	3-S	264	GLU	CA-C	-6.75	1.44	1.52
5	4-S	264	GLU	CA-C	-6.75	1.44	1.52
5	5-S	264	GLU	CA-C	-6.75	1.44	1.52
5	6-S	264	GLU	CA-C	-6.75	1.44	1.52
5	7-S	264	GLU	CA-C	-6.75	1.44	1.52
5	8-S	264	GLU	CA-C	-6.75	1.44	1.52
4	1-F	398	LYS	N-CA	-6.75	1.37	1.46
4	1-R	399	SER	CA-C	-6.75	1.43	1.52
4	2-F	398	LYS	N-CA	-6.75	1.37	1.46
4	2-R	399	SER	CA-C	-6.75	1.43	1.52
4	3-F	398	LYS	N-CA	-6.75	1.37	1.46
4	3-R	399	SER	CA-C	-6.75	1.43	1.52
4	4-F	398	LYS	N-CA	-6.75	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	399	SER	CA-C	-6.75	1.43	1.52
4	5-F	398	LYS	N-CA	-6.75	1.37	1.46
4	5-R	399	SER	CA-C	-6.75	1.43	1.52
4	6-F	398	LYS	N-CA	-6.75	1.37	1.46
4	6-R	399	SER	CA-C	-6.75	1.43	1.52
4	7-F	398	LYS	N-CA	-6.75	1.37	1.46
4	7-R	399	SER	CA-C	-6.75	1.43	1.52
4	8-F	398	LYS	N-CA	-6.75	1.37	1.46
4	8-R	399	SER	CA-C	-6.75	1.43	1.52
4	1-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	1-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	2-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	2-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	3-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	3-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	4-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	4-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	5-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	5-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	6-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	6-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	7-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	7-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	8-F	469	GLN	CA-CB	-6.74	1.42	1.53
6	8-Z	362	ASP	CA-C	-6.74	1.43	1.52
4	1-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	2-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	3-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	4-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	5-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	6-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	7-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	8-X	469	GLN	CA-CB	-6.73	1.42	1.53
4	1-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	2-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	3-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	4-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	5-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	6-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	7-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	8-L	469	GLN	CA-CB	-6.73	1.42	1.53
4	1-R	469	GLN	CA-CB	-6.73	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	3-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	4-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	5-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	6-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	7-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	8-R	469	GLN	CA-CB	-6.73	1.42	1.53
4	1-F	306	PRO	C-N	6.71	1.42	1.33
4	2-F	306	PRO	C-N	6.71	1.42	1.33
4	3-F	306	PRO	C-N	6.71	1.42	1.33
4	4-F	306	PRO	C-N	6.71	1.42	1.33
4	5-F	306	PRO	C-N	6.71	1.42	1.33
4	6-F	306	PRO	C-N	6.71	1.42	1.33
4	7-F	306	PRO	C-N	6.71	1.42	1.33
4	8-F	306	PRO	C-N	6.71	1.42	1.33
4	1-L	399	SER	CA-C	-6.70	1.43	1.52
4	2-L	399	SER	CA-C	-6.70	1.43	1.52
4	3-L	399	SER	CA-C	-6.70	1.43	1.52
4	4-L	399	SER	CA-C	-6.70	1.43	1.52
4	5-L	399	SER	CA-C	-6.70	1.43	1.52
4	6-L	399	SER	CA-C	-6.70	1.43	1.52
4	7-L	399	SER	CA-C	-6.70	1.43	1.52
4	8-L	399	SER	CA-C	-6.70	1.43	1.52
3	1-D	1538	SER	C-N	6.70	1.43	1.34
3	2-D	1538	SER	C-N	6.70	1.43	1.34
3	3-D	1538	SER	C-N	6.70	1.43	1.34
3	4-D	1538	SER	C-N	6.70	1.43	1.34
3	5-D	1538	SER	C-N	6.70	1.43	1.34
3	6-D	1538	SER	C-N	6.70	1.43	1.34
3	7-D	1538	SER	C-N	6.70	1.43	1.34
3	8-D	1538	SER	C-N	6.70	1.43	1.34
4	1-F	412	VAL	CA-C	-6.70	1.44	1.52
4	2-F	412	VAL	CA-C	-6.70	1.44	1.52
4	3-F	412	VAL	CA-C	-6.70	1.44	1.52
4	4-F	412	VAL	CA-C	-6.70	1.44	1.52
4	5-F	412	VAL	CA-C	-6.70	1.44	1.52
4	6-F	412	VAL	CA-C	-6.70	1.44	1.52
4	7-F	412	VAL	CA-C	-6.70	1.44	1.52
4	8-F	412	VAL	CA-C	-6.70	1.44	1.52
6	1-N	501	GLU	N-CA	-6.70	1.37	1.46
6	2-N	501	GLU	N-CA	-6.70	1.37	1.46
6	3-N	501	GLU	N-CA	-6.70	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-N	501	GLU	N-CA	-6.70	1.37	1.46
6	5-N	501	GLU	N-CA	-6.70	1.37	1.46
6	6-N	501	GLU	N-CA	-6.70	1.37	1.46
6	7-N	501	GLU	N-CA	-6.70	1.37	1.46
6	8-N	501	GLU	N-CA	-6.70	1.37	1.46
5	1-Y	255	VAL	C-N	6.70	1.42	1.33
5	2-Y	255	VAL	C-N	6.70	1.42	1.33
5	3-Y	255	VAL	C-N	6.70	1.42	1.33
5	4-Y	255	VAL	C-N	6.70	1.42	1.33
5	5-Y	255	VAL	C-N	6.70	1.42	1.33
5	6-Y	255	VAL	C-N	6.70	1.42	1.33
5	7-Y	255	VAL	C-N	6.70	1.42	1.33
5	8-Y	255	VAL	C-N	6.70	1.42	1.33
5	1-S	410	VAL	CA-C	-6.69	1.44	1.52
5	2-S	410	VAL	CA-C	-6.69	1.44	1.52
5	3-S	410	VAL	CA-C	-6.69	1.44	1.52
5	4-S	410	VAL	CA-C	-6.69	1.44	1.52
5	5-S	410	VAL	CA-C	-6.69	1.44	1.52
5	6-S	410	VAL	CA-C	-6.69	1.44	1.52
5	7-S	410	VAL	CA-C	-6.69	1.44	1.52
5	8-S	410	VAL	CA-C	-6.69	1.44	1.52
6	1-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	2-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	3-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	4-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	5-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	6-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	7-Z	501	GLU	N-CA	-6.69	1.37	1.46
6	8-Z	501	GLU	N-CA	-6.69	1.37	1.46
4	1-L	306	PRO	C-N	6.68	1.42	1.33
4	2-L	306	PRO	C-N	6.68	1.42	1.33
4	3-L	306	PRO	C-N	6.68	1.42	1.33
4	4-L	306	PRO	C-N	6.68	1.42	1.33
4	5-L	306	PRO	C-N	6.68	1.42	1.33
4	6-L	306	PRO	C-N	6.68	1.42	1.33
4	7-L	306	PRO	C-N	6.68	1.42	1.33
4	8-L	306	PRO	C-N	6.68	1.42	1.33
6	1-H	501	GLU	N-CA	-6.68	1.37	1.46
5	1-S	344	ASP	C-N	-6.68	1.24	1.34
4	1-X	403	ILE	CA-C	-6.68	1.44	1.52
6	2-H	501	GLU	N-CA	-6.68	1.37	1.46
5	2-S	344	ASP	C-N	-6.68	1.24	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-X	403	ILE	CA-C	-6.68	1.44	1.52
6	3-H	501	GLU	N-CA	-6.68	1.37	1.46
5	3-S	344	ASP	C-N	-6.68	1.24	1.34
4	3-X	403	ILE	CA-C	-6.68	1.44	1.52
6	4-H	501	GLU	N-CA	-6.68	1.37	1.46
5	4-S	344	ASP	C-N	-6.68	1.24	1.34
4	4-X	403	ILE	CA-C	-6.68	1.44	1.52
6	5-H	501	GLU	N-CA	-6.68	1.37	1.46
5	5-S	344	ASP	C-N	-6.68	1.24	1.34
4	5-X	403	ILE	CA-C	-6.68	1.44	1.52
6	6-H	501	GLU	N-CA	-6.68	1.37	1.46
5	6-S	344	ASP	C-N	-6.68	1.24	1.34
4	6-X	403	ILE	CA-C	-6.68	1.44	1.52
6	7-H	501	GLU	N-CA	-6.68	1.37	1.46
5	7-S	344	ASP	C-N	-6.68	1.24	1.34
4	7-X	403	ILE	CA-C	-6.68	1.44	1.52
6	8-H	501	GLU	N-CA	-6.68	1.37	1.46
5	8-S	344	ASP	C-N	-6.68	1.24	1.34
4	8-X	403	ILE	CA-C	-6.68	1.44	1.52
5	1-G	410	VAL	CA-C	-6.68	1.44	1.52
5	2-G	410	VAL	CA-C	-6.68	1.44	1.52
5	3-G	410	VAL	CA-C	-6.68	1.44	1.52
5	4-G	410	VAL	CA-C	-6.68	1.44	1.52
5	5-G	410	VAL	CA-C	-6.68	1.44	1.52
5	6-G	410	VAL	CA-C	-6.68	1.44	1.52
5	7-G	410	VAL	CA-C	-6.68	1.44	1.52
5	8-G	410	VAL	CA-C	-6.68	1.44	1.52
4	1-R	365	GLN	N-CA	6.68	1.54	1.46
4	2-R	365	GLN	N-CA	6.68	1.54	1.46
4	3-R	365	GLN	N-CA	6.68	1.54	1.46
4	4-R	365	GLN	N-CA	6.68	1.54	1.46
4	5-R	365	GLN	N-CA	6.68	1.54	1.46
4	6-R	365	GLN	N-CA	6.68	1.54	1.46
4	7-R	365	GLN	N-CA	6.68	1.54	1.46
4	8-R	365	GLN	N-CA	6.68	1.54	1.46
4	1-L	365	GLN	N-CA	6.67	1.54	1.46
5	1-S	255	VAL	C-N	6.67	1.42	1.33
4	2-L	365	GLN	N-CA	6.67	1.54	1.46
5	2-S	255	VAL	C-N	6.67	1.42	1.33
4	3-L	365	GLN	N-CA	6.67	1.54	1.46
5	3-S	255	VAL	C-N	6.67	1.42	1.33
4	4-L	365	GLN	N-CA	6.67	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-S	255	VAL	C-N	6.67	1.42	1.33
4	5-L	365	GLN	N-CA	6.67	1.54	1.46
5	5-S	255	VAL	C-N	6.67	1.42	1.33
4	6-L	365	GLN	N-CA	6.67	1.54	1.46
5	6-S	255	VAL	C-N	6.67	1.42	1.33
4	7-L	365	GLN	N-CA	6.67	1.54	1.46
5	7-S	255	VAL	C-N	6.67	1.42	1.33
4	8-L	365	GLN	N-CA	6.67	1.54	1.46
5	8-S	255	VAL	C-N	6.67	1.42	1.33
4	1-X	365	GLN	N-CA	6.67	1.54	1.46
4	2-X	365	GLN	N-CA	6.67	1.54	1.46
4	3-X	365	GLN	N-CA	6.67	1.54	1.46
4	4-X	365	GLN	N-CA	6.67	1.54	1.46
4	5-X	365	GLN	N-CA	6.67	1.54	1.46
4	6-X	365	GLN	N-CA	6.67	1.54	1.46
4	7-X	365	GLN	N-CA	6.67	1.54	1.46
4	8-X	365	GLN	N-CA	6.67	1.54	1.46
4	1-F	365	GLN	N-CA	6.67	1.54	1.46
5	1-G	255	VAL	C-N	6.67	1.42	1.33
4	1-R	306	PRO	C-N	6.67	1.42	1.33
4	1-R	403	ILE	CA-C	-6.67	1.44	1.52
4	1-R	440	MET	C-N	6.67	1.42	1.33
4	2-F	365	GLN	N-CA	6.67	1.54	1.46
5	2-G	255	VAL	C-N	6.67	1.42	1.33
4	2-R	306	PRO	C-N	6.67	1.42	1.33
4	2-R	403	ILE	CA-C	-6.67	1.44	1.52
4	2-R	440	MET	C-N	6.67	1.42	1.33
4	3-F	365	GLN	N-CA	6.67	1.54	1.46
5	3-G	255	VAL	C-N	6.67	1.42	1.33
4	3-R	306	PRO	C-N	6.67	1.42	1.33
4	3-R	403	ILE	CA-C	-6.67	1.44	1.52
4	3-R	440	MET	C-N	6.67	1.42	1.33
4	4-F	365	GLN	N-CA	6.67	1.54	1.46
5	4-G	255	VAL	C-N	6.67	1.42	1.33
4	4-R	306	PRO	C-N	6.67	1.42	1.33
4	4-R	403	ILE	CA-C	-6.67	1.44	1.52
4	4-R	440	MET	C-N	6.67	1.42	1.33
4	5-F	365	GLN	N-CA	6.67	1.54	1.46
5	5-G	255	VAL	C-N	6.67	1.42	1.33
4	5-R	306	PRO	C-N	6.67	1.42	1.33
4	5-R	403	ILE	CA-C	-6.67	1.44	1.52
4	5-R	440	MET	C-N	6.67	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	365	GLN	N-CA	6.67	1.54	1.46
5	6-G	255	VAL	C-N	6.67	1.42	1.33
4	6-R	306	PRO	C-N	6.67	1.42	1.33
4	6-R	403	ILE	CA-C	-6.67	1.44	1.52
4	6-R	440	MET	C-N	6.67	1.42	1.33
4	7-F	365	GLN	N-CA	6.67	1.54	1.46
5	7-G	255	VAL	C-N	6.67	1.42	1.33
4	7-R	306	PRO	C-N	6.67	1.42	1.33
4	7-R	403	ILE	CA-C	-6.67	1.44	1.52
4	7-R	440	MET	C-N	6.67	1.42	1.33
4	8-F	365	GLN	N-CA	6.67	1.54	1.46
5	8-G	255	VAL	C-N	6.67	1.42	1.33
4	8-R	306	PRO	C-N	6.67	1.42	1.33
4	8-R	403	ILE	CA-C	-6.67	1.44	1.52
4	8-R	440	MET	C-N	6.67	1.42	1.33
4	1-F	327	MET	CA-C	-6.67	1.44	1.52
6	1-T	501	GLU	N-CA	-6.67	1.37	1.46
5	1-Y	344	ASP	C-N	-6.67	1.24	1.34
4	2-F	327	MET	CA-C	-6.67	1.44	1.52
6	2-T	501	GLU	N-CA	-6.67	1.37	1.46
5	2-Y	344	ASP	C-N	-6.67	1.24	1.34
4	3-F	327	MET	CA-C	-6.67	1.44	1.52
6	3-T	501	GLU	N-CA	-6.67	1.37	1.46
5	3-Y	344	ASP	C-N	-6.67	1.24	1.34
4	4-F	327	MET	CA-C	-6.67	1.44	1.52
6	4-T	501	GLU	N-CA	-6.67	1.37	1.46
5	4-Y	344	ASP	C-N	-6.67	1.24	1.34
4	5-F	327	MET	CA-C	-6.67	1.44	1.52
6	5-T	501	GLU	N-CA	-6.67	1.37	1.46
5	5-Y	344	ASP	C-N	-6.67	1.24	1.34
4	6-F	327	MET	CA-C	-6.67	1.44	1.52
6	6-T	501	GLU	N-CA	-6.67	1.37	1.46
5	6-Y	344	ASP	C-N	-6.67	1.24	1.34
4	7-F	327	MET	CA-C	-6.67	1.44	1.52
6	7-T	501	GLU	N-CA	-6.67	1.37	1.46
5	7-Y	344	ASP	C-N	-6.67	1.24	1.34
4	8-F	327	MET	CA-C	-6.67	1.44	1.52
6	8-T	501	GLU	N-CA	-6.67	1.37	1.46
5	8-Y	344	ASP	C-N	-6.67	1.24	1.34
4	1-F	440	MET	C-N	6.66	1.42	1.33
4	2-F	440	MET	C-N	6.66	1.42	1.33
4	3-F	440	MET	C-N	6.66	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	440	MET	C-N	6.66	1.42	1.33
4	5-F	440	MET	C-N	6.66	1.42	1.33
4	6-F	440	MET	C-N	6.66	1.42	1.33
4	7-F	440	MET	C-N	6.66	1.42	1.33
4	8-F	440	MET	C-N	6.66	1.42	1.33
4	1-X	440	MET	C-N	6.66	1.42	1.33
4	2-X	440	MET	C-N	6.66	1.42	1.33
4	3-X	440	MET	C-N	6.66	1.42	1.33
4	4-X	440	MET	C-N	6.66	1.42	1.33
4	5-X	440	MET	C-N	6.66	1.42	1.33
4	6-X	440	MET	C-N	6.66	1.42	1.33
4	7-X	440	MET	C-N	6.66	1.42	1.33
4	8-X	440	MET	C-N	6.66	1.42	1.33
4	1-R	412	VAL	CA-C	-6.66	1.44	1.52
6	1-T	362	ASP	CA-C	-6.66	1.43	1.52
4	2-R	412	VAL	CA-C	-6.66	1.44	1.52
6	2-T	362	ASP	CA-C	-6.66	1.43	1.52
4	3-R	412	VAL	CA-C	-6.66	1.44	1.52
6	3-T	362	ASP	CA-C	-6.66	1.43	1.52
4	4-R	412	VAL	CA-C	-6.66	1.44	1.52
6	4-T	362	ASP	CA-C	-6.66	1.43	1.52
4	5-R	412	VAL	CA-C	-6.66	1.44	1.52
6	5-T	362	ASP	CA-C	-6.66	1.43	1.52
4	6-R	412	VAL	CA-C	-6.66	1.44	1.52
6	6-T	362	ASP	CA-C	-6.66	1.43	1.52
4	7-R	412	VAL	CA-C	-6.66	1.44	1.52
6	7-T	362	ASP	CA-C	-6.66	1.43	1.52
4	8-R	412	VAL	CA-C	-6.66	1.44	1.52
6	8-T	362	ASP	CA-C	-6.66	1.43	1.52
5	1-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	2-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	3-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	4-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	5-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	6-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	7-Y	410	VAL	CA-C	-6.65	1.44	1.52
5	8-Y	410	VAL	CA-C	-6.65	1.44	1.52
4	1-L	403	ILE	CA-C	-6.65	1.44	1.52
5	1-M	344	ASP	C-N	-6.65	1.24	1.34
4	2-L	403	ILE	CA-C	-6.65	1.44	1.52
5	2-M	344	ASP	C-N	-6.65	1.24	1.34
4	3-L	403	ILE	CA-C	-6.65	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-M	344	ASP	C-N	-6.65	1.24	1.34
4	4-L	403	ILE	CA-C	-6.65	1.44	1.52
5	4-M	344	ASP	C-N	-6.65	1.24	1.34
4	5-L	403	ILE	CA-C	-6.65	1.44	1.52
5	5-M	344	ASP	C-N	-6.65	1.24	1.34
4	6-L	403	ILE	CA-C	-6.65	1.44	1.52
5	6-M	344	ASP	C-N	-6.65	1.24	1.34
4	7-L	403	ILE	CA-C	-6.65	1.44	1.52
5	7-M	344	ASP	C-N	-6.65	1.24	1.34
4	8-L	403	ILE	CA-C	-6.65	1.44	1.52
5	8-M	344	ASP	C-N	-6.65	1.24	1.34
4	1-X	306	PRO	C-N	6.65	1.42	1.33
4	2-X	306	PRO	C-N	6.65	1.42	1.33
4	3-X	306	PRO	C-N	6.65	1.42	1.33
4	4-X	306	PRO	C-N	6.65	1.42	1.33
4	5-X	306	PRO	C-N	6.65	1.42	1.33
4	6-X	306	PRO	C-N	6.65	1.42	1.33
4	7-X	306	PRO	C-N	6.65	1.42	1.33
4	8-X	306	PRO	C-N	6.65	1.42	1.33
5	1-G	344	ASP	C-N	-6.64	1.24	1.34
5	2-G	344	ASP	C-N	-6.64	1.24	1.34
5	3-G	344	ASP	C-N	-6.64	1.24	1.34
5	4-G	344	ASP	C-N	-6.64	1.24	1.34
5	5-G	344	ASP	C-N	-6.64	1.24	1.34
5	6-G	344	ASP	C-N	-6.64	1.24	1.34
5	7-G	344	ASP	C-N	-6.64	1.24	1.34
5	8-G	344	ASP	C-N	-6.64	1.24	1.34
5	1-M	410	VAL	CA-C	-6.64	1.44	1.52
5	2-M	410	VAL	CA-C	-6.64	1.44	1.52
5	3-M	410	VAL	CA-C	-6.64	1.44	1.52
5	4-M	410	VAL	CA-C	-6.64	1.44	1.52
5	5-M	410	VAL	CA-C	-6.64	1.44	1.52
5	6-M	410	VAL	CA-C	-6.64	1.44	1.52
5	7-M	410	VAL	CA-C	-6.64	1.44	1.52
5	8-M	410	VAL	CA-C	-6.64	1.44	1.52
4	1-L	440	MET	C-N	6.64	1.42	1.33
4	2-L	440	MET	C-N	6.64	1.42	1.33
4	3-L	440	MET	C-N	6.64	1.42	1.33
4	4-L	440	MET	C-N	6.64	1.42	1.33
4	5-L	440	MET	C-N	6.64	1.42	1.33
4	6-L	440	MET	C-N	6.64	1.42	1.33
4	7-L	440	MET	C-N	6.64	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	440	MET	C-N	6.64	1.42	1.33
5	1-G	346	PHE	CA-CB	6.64	1.63	1.53
5	2-G	346	PHE	CA-CB	6.64	1.63	1.53
5	3-G	346	PHE	CA-CB	6.64	1.63	1.53
5	4-G	346	PHE	CA-CB	6.64	1.63	1.53
5	5-G	346	PHE	CA-CB	6.64	1.63	1.53
5	6-G	346	PHE	CA-CB	6.64	1.63	1.53
5	7-G	346	PHE	CA-CB	6.64	1.63	1.53
5	8-G	346	PHE	CA-CB	6.64	1.63	1.53
4	1-X	327	MET	CA-C	-6.63	1.44	1.52
4	2-X	327	MET	CA-C	-6.63	1.44	1.52
4	3-X	327	MET	CA-C	-6.63	1.44	1.52
4	4-X	327	MET	CA-C	-6.63	1.44	1.52
4	5-X	327	MET	CA-C	-6.63	1.44	1.52
4	6-X	327	MET	CA-C	-6.63	1.44	1.52
4	7-X	327	MET	CA-C	-6.63	1.44	1.52
4	8-X	327	MET	CA-C	-6.63	1.44	1.52
4	1-R	327	MET	CA-C	-6.63	1.44	1.52
4	2-R	327	MET	CA-C	-6.63	1.44	1.52
4	3-R	327	MET	CA-C	-6.63	1.44	1.52
4	4-R	327	MET	CA-C	-6.63	1.44	1.52
4	5-R	327	MET	CA-C	-6.63	1.44	1.52
4	6-R	327	MET	CA-C	-6.63	1.44	1.52
4	7-R	327	MET	CA-C	-6.63	1.44	1.52
4	8-R	327	MET	CA-C	-6.63	1.44	1.52
5	1-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	2-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	3-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	4-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	5-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	6-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	7-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	8-Y	346	PHE	CA-CB	6.63	1.63	1.53
5	1-M	255	VAL	C-N	6.62	1.42	1.33
5	1-S	346	PHE	CA-CB	6.62	1.63	1.53
5	2-M	255	VAL	C-N	6.62	1.42	1.33
5	2-S	346	PHE	CA-CB	6.62	1.63	1.53
5	3-M	255	VAL	C-N	6.62	1.42	1.33
5	3-S	346	PHE	CA-CB	6.62	1.63	1.53
5	4-M	255	VAL	C-N	6.62	1.42	1.33
5	4-S	346	PHE	CA-CB	6.62	1.63	1.53
5	5-M	255	VAL	C-N	6.62	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-S	346	PHE	CA-CB	6.62	1.63	1.53
5	6-M	255	VAL	C-N	6.62	1.42	1.33
5	6-S	346	PHE	CA-CB	6.62	1.63	1.53
5	7-M	255	VAL	C-N	6.62	1.42	1.33
5	7-S	346	PHE	CA-CB	6.62	1.63	1.53
5	8-M	255	VAL	C-N	6.62	1.42	1.33
5	8-S	346	PHE	CA-CB	6.62	1.63	1.53
5	1-M	346	PHE	CA-CB	6.62	1.63	1.53
5	2-M	346	PHE	CA-CB	6.62	1.63	1.53
5	3-M	346	PHE	CA-CB	6.62	1.63	1.53
5	4-M	346	PHE	CA-CB	6.62	1.63	1.53
5	5-M	346	PHE	CA-CB	6.62	1.63	1.53
5	6-M	346	PHE	CA-CB	6.62	1.63	1.53
5	7-M	346	PHE	CA-CB	6.62	1.63	1.53
5	8-M	346	PHE	CA-CB	6.62	1.63	1.53
4	1-L	327	MET	CA-C	-6.61	1.44	1.52
4	2-L	327	MET	CA-C	-6.61	1.44	1.52
4	3-L	327	MET	CA-C	-6.61	1.44	1.52
4	4-L	327	MET	CA-C	-6.61	1.44	1.52
4	5-L	327	MET	CA-C	-6.61	1.44	1.52
4	6-L	327	MET	CA-C	-6.61	1.44	1.52
4	7-L	327	MET	CA-C	-6.61	1.44	1.52
4	8-L	327	MET	CA-C	-6.61	1.44	1.52
4	1-F	403	ILE	CA-C	-6.61	1.44	1.52
4	2-F	403	ILE	CA-C	-6.61	1.44	1.52
4	3-F	403	ILE	CA-C	-6.61	1.44	1.52
4	4-F	403	ILE	CA-C	-6.61	1.44	1.52
4	5-F	403	ILE	CA-C	-6.61	1.44	1.52
4	6-F	403	ILE	CA-C	-6.61	1.44	1.52
4	7-F	403	ILE	CA-C	-6.61	1.44	1.52
4	8-F	403	ILE	CA-C	-6.61	1.44	1.52
3	1-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	1-L	412	VAL	CA-C	-6.60	1.44	1.52
3	2-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	2-L	412	VAL	CA-C	-6.60	1.44	1.52
3	3-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	3-L	412	VAL	CA-C	-6.60	1.44	1.52
3	4-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	4-L	412	VAL	CA-C	-6.60	1.44	1.52
3	5-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	5-L	412	VAL	CA-C	-6.60	1.44	1.52
3	6-J	1487	ASP	N-CA	-6.60	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-L	412	VAL	CA-C	-6.60	1.44	1.52
3	7-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	7-L	412	VAL	CA-C	-6.60	1.44	1.52
3	8-J	1487	ASP	N-CA	-6.60	1.37	1.46
4	8-L	412	VAL	CA-C	-6.60	1.44	1.52
5	1-S	263	LYS	CA-C	-6.60	1.43	1.52
5	2-S	263	LYS	CA-C	-6.60	1.43	1.52
5	3-S	263	LYS	CA-C	-6.60	1.43	1.52
5	4-S	263	LYS	CA-C	-6.60	1.43	1.52
5	5-S	263	LYS	CA-C	-6.60	1.43	1.52
5	6-S	263	LYS	CA-C	-6.60	1.43	1.52
5	7-S	263	LYS	CA-C	-6.60	1.43	1.52
5	8-S	263	LYS	CA-C	-6.60	1.43	1.52
4	1-L	404	GLN	N-CA	-6.60	1.35	1.46
4	2-L	404	GLN	N-CA	-6.60	1.35	1.46
4	3-L	404	GLN	N-CA	-6.60	1.35	1.46
4	4-L	404	GLN	N-CA	-6.60	1.35	1.46
4	5-L	404	GLN	N-CA	-6.60	1.35	1.46
4	6-L	404	GLN	N-CA	-6.60	1.35	1.46
4	7-L	404	GLN	N-CA	-6.60	1.35	1.46
4	8-L	404	GLN	N-CA	-6.60	1.35	1.46
2	1-C	6	PHE	C-N	-6.59	1.23	1.33
4	1-X	412	VAL	CA-C	-6.59	1.44	1.52
2	2-C	6	PHE	C-N	-6.59	1.23	1.33
4	2-X	412	VAL	CA-C	-6.59	1.44	1.52
2	3-C	6	PHE	C-N	-6.59	1.23	1.33
4	3-X	412	VAL	CA-C	-6.59	1.44	1.52
2	4-C	6	PHE	C-N	-6.59	1.23	1.33
4	4-X	412	VAL	CA-C	-6.59	1.44	1.52
2	5-C	6	PHE	C-N	-6.59	1.23	1.33
4	5-X	412	VAL	CA-C	-6.59	1.44	1.52
2	6-C	6	PHE	C-N	-6.59	1.23	1.33
4	6-X	412	VAL	CA-C	-6.59	1.44	1.52
2	7-C	6	PHE	C-N	-6.59	1.23	1.33
4	7-X	412	VAL	CA-C	-6.59	1.44	1.52
2	8-C	6	PHE	C-N	-6.59	1.23	1.33
4	8-X	412	VAL	CA-C	-6.59	1.44	1.52
4	1-X	404	GLN	N-CA	-6.58	1.35	1.46
4	2-X	404	GLN	N-CA	-6.58	1.35	1.46
4	3-X	404	GLN	N-CA	-6.58	1.35	1.46
4	4-X	404	GLN	N-CA	-6.58	1.35	1.46
4	5-X	404	GLN	N-CA	-6.58	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-X	404	GLN	N-CA	-6.58	1.35	1.46
4	7-X	404	GLN	N-CA	-6.58	1.35	1.46
4	8-X	404	GLN	N-CA	-6.58	1.35	1.46
3	1-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	2-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	3-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	4-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	5-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	6-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	7-P	1487	ASP	N-CA	-6.58	1.37	1.46
3	8-P	1487	ASP	N-CA	-6.58	1.37	1.46
2	1-I	5	GLY	C-N	-6.58	1.23	1.33
2	1-I	6	PHE	C-N	-6.58	1.23	1.33
2	2-I	5	GLY	C-N	-6.58	1.23	1.33
2	2-I	6	PHE	C-N	-6.58	1.23	1.33
2	3-I	5	GLY	C-N	-6.58	1.23	1.33
2	3-I	6	PHE	C-N	-6.58	1.23	1.33
2	4-I	5	GLY	C-N	-6.58	1.23	1.33
2	4-I	6	PHE	C-N	-6.58	1.23	1.33
2	5-I	5	GLY	C-N	-6.58	1.23	1.33
2	5-I	6	PHE	C-N	-6.58	1.23	1.33
2	6-I	5	GLY	C-N	-6.58	1.23	1.33
2	6-I	6	PHE	C-N	-6.58	1.23	1.33
2	7-I	5	GLY	C-N	-6.58	1.23	1.33
2	7-I	6	PHE	C-N	-6.58	1.23	1.33
2	8-I	5	GLY	C-N	-6.58	1.23	1.33
2	8-I	6	PHE	C-N	-6.58	1.23	1.33
4	1-F	404	GLN	N-CA	-6.58	1.36	1.46
3	1-P	1662	CYS	CA-C	6.58	1.61	1.52
4	2-F	404	GLN	N-CA	-6.58	1.36	1.46
3	2-P	1662	CYS	CA-C	6.58	1.61	1.52
4	3-F	404	GLN	N-CA	-6.58	1.36	1.46
3	3-P	1662	CYS	CA-C	6.58	1.61	1.52
4	4-F	404	GLN	N-CA	-6.58	1.36	1.46
3	4-P	1662	CYS	CA-C	6.58	1.61	1.52
4	5-F	404	GLN	N-CA	-6.58	1.36	1.46
3	5-P	1662	CYS	CA-C	6.58	1.61	1.52
4	6-F	404	GLN	N-CA	-6.58	1.36	1.46
3	6-P	1662	CYS	CA-C	6.58	1.61	1.52
4	7-F	404	GLN	N-CA	-6.58	1.36	1.46
3	7-P	1662	CYS	CA-C	6.58	1.61	1.52
4	8-F	404	GLN	N-CA	-6.58	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-P	1662	CYS	CA-C	6.58	1.61	1.52
5	1-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	2-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	3-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	4-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	5-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	6-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	7-Y	263	LYS	CA-C	-6.57	1.43	1.52
5	8-Y	263	LYS	CA-C	-6.57	1.43	1.52
3	1-P	1478	MET	CA-C	-6.57	1.44	1.52
4	1-R	404	GLN	N-CA	-6.57	1.36	1.46
3	2-P	1478	MET	CA-C	-6.57	1.44	1.52
4	2-R	404	GLN	N-CA	-6.57	1.36	1.46
3	3-P	1478	MET	CA-C	-6.57	1.44	1.52
4	3-R	404	GLN	N-CA	-6.57	1.36	1.46
3	4-P	1478	MET	CA-C	-6.57	1.44	1.52
4	4-R	404	GLN	N-CA	-6.57	1.36	1.46
3	5-P	1478	MET	CA-C	-6.57	1.44	1.52
4	5-R	404	GLN	N-CA	-6.57	1.36	1.46
3	6-P	1478	MET	CA-C	-6.57	1.44	1.52
4	6-R	404	GLN	N-CA	-6.57	1.36	1.46
3	7-P	1478	MET	CA-C	-6.57	1.44	1.52
4	7-R	404	GLN	N-CA	-6.57	1.36	1.46
3	8-P	1478	MET	CA-C	-6.57	1.44	1.52
4	8-R	404	GLN	N-CA	-6.57	1.36	1.46
2	1-U	5	GLY	C-N	-6.56	1.23	1.33
2	2-U	5	GLY	C-N	-6.56	1.23	1.33
2	3-U	5	GLY	C-N	-6.56	1.23	1.33
2	4-U	5	GLY	C-N	-6.56	1.23	1.33
2	5-U	5	GLY	C-N	-6.56	1.23	1.33
2	6-U	5	GLY	C-N	-6.56	1.23	1.33
2	7-U	5	GLY	C-N	-6.56	1.23	1.33
2	8-U	5	GLY	C-N	-6.56	1.23	1.33
2	1-O	6	PHE	C-N	-6.56	1.24	1.33
2	2-O	6	PHE	C-N	-6.56	1.24	1.33
2	3-O	6	PHE	C-N	-6.56	1.24	1.33
2	4-O	6	PHE	C-N	-6.56	1.24	1.33
2	5-O	6	PHE	C-N	-6.56	1.24	1.33
2	6-O	6	PHE	C-N	-6.56	1.24	1.33
2	7-O	6	PHE	C-N	-6.56	1.24	1.33
2	8-O	6	PHE	C-N	-6.56	1.24	1.33
3	1-V	1684	ALA	CA-C	-6.56	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-V	1684	ALA	CA-C	-6.56	1.44	1.53
3	3-V	1684	ALA	CA-C	-6.56	1.44	1.53
3	4-V	1684	ALA	CA-C	-6.56	1.44	1.53
3	5-V	1684	ALA	CA-C	-6.56	1.44	1.53
3	6-V	1684	ALA	CA-C	-6.56	1.44	1.53
3	7-V	1684	ALA	CA-C	-6.56	1.44	1.53
3	8-V	1684	ALA	CA-C	-6.56	1.44	1.53
4	1-L	490	LEU	CA-CB	6.55	1.64	1.53
4	2-L	490	LEU	CA-CB	6.55	1.64	1.53
4	3-L	490	LEU	CA-CB	6.55	1.64	1.53
4	4-L	490	LEU	CA-CB	6.55	1.64	1.53
4	5-L	490	LEU	CA-CB	6.55	1.64	1.53
4	6-L	490	LEU	CA-CB	6.55	1.64	1.53
4	7-L	490	LEU	CA-CB	6.55	1.64	1.53
4	8-L	490	LEU	CA-CB	6.55	1.64	1.53
3	1-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	1-S	349	LEU	CA-C	-6.55	1.43	1.52
3	2-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	2-S	349	LEU	CA-C	-6.55	1.43	1.52
3	3-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	3-S	349	LEU	CA-C	-6.55	1.43	1.52
3	4-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	4-S	349	LEU	CA-C	-6.55	1.43	1.52
3	5-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	5-S	349	LEU	CA-C	-6.55	1.43	1.52
3	6-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	6-S	349	LEU	CA-C	-6.55	1.43	1.52
3	7-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	7-S	349	LEU	CA-C	-6.55	1.43	1.52
3	8-J	1684	ALA	CA-C	-6.55	1.44	1.53
5	8-S	349	LEU	CA-C	-6.55	1.43	1.52
2	1-O	5	GLY	C-N	-6.55	1.23	1.33
2	2-O	5	GLY	C-N	-6.55	1.23	1.33
2	3-O	5	GLY	C-N	-6.55	1.23	1.33
2	4-O	5	GLY	C-N	-6.55	1.23	1.33
2	5-O	5	GLY	C-N	-6.55	1.23	1.33
2	6-O	5	GLY	C-N	-6.55	1.23	1.33
2	7-O	5	GLY	C-N	-6.55	1.23	1.33
2	8-O	5	GLY	C-N	-6.55	1.23	1.33
3	1-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	1-U	6	PHE	C-N	-6.55	1.24	1.33
3	2-D	1684	ALA	CA-C	-6.55	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-U	6	PHE	C-N	-6.55	1.24	1.33
3	3-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	3-U	6	PHE	C-N	-6.55	1.24	1.33
3	4-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	4-U	6	PHE	C-N	-6.55	1.24	1.33
3	5-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	5-U	6	PHE	C-N	-6.55	1.24	1.33
3	6-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	6-U	6	PHE	C-N	-6.55	1.24	1.33
3	7-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	7-U	6	PHE	C-N	-6.55	1.24	1.33
3	8-D	1684	ALA	CA-C	-6.55	1.44	1.53
2	8-U	6	PHE	C-N	-6.55	1.24	1.33
5	1-G	275	MET	N-CA	6.54	1.54	1.46
5	2-G	275	MET	N-CA	6.54	1.54	1.46
5	3-G	275	MET	N-CA	6.54	1.54	1.46
5	4-G	275	MET	N-CA	6.54	1.54	1.46
5	5-G	275	MET	N-CA	6.54	1.54	1.46
5	6-G	275	MET	N-CA	6.54	1.54	1.46
5	7-G	275	MET	N-CA	6.54	1.54	1.46
5	8-G	275	MET	N-CA	6.54	1.54	1.46
4	1-X	490	LEU	CA-CB	6.54	1.64	1.53
4	2-X	490	LEU	CA-CB	6.54	1.64	1.53
4	3-X	490	LEU	CA-CB	6.54	1.64	1.53
4	4-X	490	LEU	CA-CB	6.54	1.64	1.53
4	5-X	490	LEU	CA-CB	6.54	1.64	1.53
4	6-X	490	LEU	CA-CB	6.54	1.64	1.53
4	7-X	490	LEU	CA-CB	6.54	1.64	1.53
4	8-X	490	LEU	CA-CB	6.54	1.64	1.53
3	1-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	1-Y	275	MET	N-CA	6.54	1.54	1.46
3	2-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	2-Y	275	MET	N-CA	6.54	1.54	1.46
3	3-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	3-Y	275	MET	N-CA	6.54	1.54	1.46
3	4-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	4-Y	275	MET	N-CA	6.54	1.54	1.46
3	5-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	5-Y	275	MET	N-CA	6.54	1.54	1.46
3	6-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	6-Y	275	MET	N-CA	6.54	1.54	1.46
3	7-P	1684	ALA	CA-C	-6.54	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-Y	275	MET	N-CA	6.54	1.54	1.46
3	8-P	1684	ALA	CA-C	-6.54	1.44	1.53
5	8-Y	275	MET	N-CA	6.54	1.54	1.46
3	1-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	2-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	3-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	4-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	5-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	6-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	7-D	1487	ASP	N-CA	-6.54	1.37	1.46
3	8-D	1487	ASP	N-CA	-6.54	1.37	1.46
5	1-G	263	LYS	CA-C	-6.53	1.44	1.52
5	1-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	1-R	490	LEU	CA-CB	6.53	1.64	1.53
5	2-G	263	LYS	CA-C	-6.53	1.44	1.52
5	2-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	2-R	490	LEU	CA-CB	6.53	1.64	1.53
5	3-G	263	LYS	CA-C	-6.53	1.44	1.52
5	3-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	3-R	490	LEU	CA-CB	6.53	1.64	1.53
5	4-G	263	LYS	CA-C	-6.53	1.44	1.52
5	4-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	4-R	490	LEU	CA-CB	6.53	1.64	1.53
5	5-G	263	LYS	CA-C	-6.53	1.44	1.52
5	5-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	5-R	490	LEU	CA-CB	6.53	1.64	1.53
5	6-G	263	LYS	CA-C	-6.53	1.44	1.52
5	6-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	6-R	490	LEU	CA-CB	6.53	1.64	1.53
5	7-G	263	LYS	CA-C	-6.53	1.44	1.52
5	7-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	7-R	490	LEU	CA-CB	6.53	1.64	1.53
5	8-G	263	LYS	CA-C	-6.53	1.44	1.52
5	8-M	335	LEU	CA-CB	-6.53	1.42	1.53
4	8-R	490	LEU	CA-CB	6.53	1.64	1.53
5	1-M	263	LYS	CA-C	-6.53	1.44	1.52
5	2-M	263	LYS	CA-C	-6.53	1.44	1.52
5	3-M	263	LYS	CA-C	-6.53	1.44	1.52
5	4-M	263	LYS	CA-C	-6.53	1.44	1.52
5	5-M	263	LYS	CA-C	-6.53	1.44	1.52
5	6-M	263	LYS	CA-C	-6.53	1.44	1.52
5	7-M	263	LYS	CA-C	-6.53	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-M	263	LYS	CA-C	-6.53	1.44	1.52
3	1-V	1662	CYS	CA-C	6.53	1.61	1.52
3	2-V	1662	CYS	CA-C	6.53	1.61	1.52
3	3-V	1662	CYS	CA-C	6.53	1.61	1.52
3	4-V	1662	CYS	CA-C	6.53	1.61	1.52
3	5-V	1662	CYS	CA-C	6.53	1.61	1.52
3	6-V	1662	CYS	CA-C	6.53	1.61	1.52
3	7-V	1662	CYS	CA-C	6.53	1.61	1.52
3	8-V	1662	CYS	CA-C	6.53	1.61	1.52
3	1-V	1478	MET	CA-C	-6.53	1.44	1.52
3	2-V	1478	MET	CA-C	-6.53	1.44	1.52
3	3-V	1478	MET	CA-C	-6.53	1.44	1.52
3	4-V	1478	MET	CA-C	-6.53	1.44	1.52
3	5-V	1478	MET	CA-C	-6.53	1.44	1.52
3	6-V	1478	MET	CA-C	-6.53	1.44	1.52
3	7-V	1478	MET	CA-C	-6.53	1.44	1.52
3	8-V	1478	MET	CA-C	-6.53	1.44	1.52
3	1-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	2-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	3-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	4-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	5-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	6-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	7-V	1470	ILE	N-CA	-6.53	1.39	1.46
3	8-V	1470	ILE	N-CA	-6.53	1.39	1.46
2	1-C	5	GLY	C-N	-6.53	1.23	1.33
5	1-G	349	LEU	CA-C	-6.53	1.44	1.52
2	2-C	5	GLY	C-N	-6.53	1.23	1.33
5	2-G	349	LEU	CA-C	-6.53	1.44	1.52
2	3-C	5	GLY	C-N	-6.53	1.23	1.33
5	3-G	349	LEU	CA-C	-6.53	1.44	1.52
2	4-C	5	GLY	C-N	-6.53	1.23	1.33
5	4-G	349	LEU	CA-C	-6.53	1.44	1.52
2	5-C	5	GLY	C-N	-6.53	1.23	1.33
5	5-G	349	LEU	CA-C	-6.53	1.44	1.52
2	6-C	5	GLY	C-N	-6.53	1.23	1.33
5	6-G	349	LEU	CA-C	-6.53	1.44	1.52
2	7-C	5	GLY	C-N	-6.53	1.23	1.33
5	7-G	349	LEU	CA-C	-6.53	1.44	1.52
2	8-C	5	GLY	C-N	-6.53	1.23	1.33
5	8-G	349	LEU	CA-C	-6.53	1.44	1.52
3	1-D	1662	CYS	CA-C	6.52	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	2-D	1662	CYS	CA-C	6.52	1.61	1.52
5	2-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	3-D	1662	CYS	CA-C	6.52	1.61	1.52
5	3-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	4-D	1662	CYS	CA-C	6.52	1.61	1.52
5	4-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	5-D	1662	CYS	CA-C	6.52	1.61	1.52
5	5-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	6-D	1662	CYS	CA-C	6.52	1.61	1.52
5	6-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	7-D	1662	CYS	CA-C	6.52	1.61	1.52
5	7-S	335	LEU	CA-CB	-6.52	1.42	1.53
3	8-D	1662	CYS	CA-C	6.52	1.61	1.52
5	8-S	335	LEU	CA-CB	-6.52	1.42	1.53
4	1-X	304	VAL	CA-C	-6.52	1.45	1.52
5	1-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	2-X	304	VAL	CA-C	-6.52	1.45	1.52
5	2-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	3-X	304	VAL	CA-C	-6.52	1.45	1.52
5	3-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	4-X	304	VAL	CA-C	-6.52	1.45	1.52
5	4-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	5-X	304	VAL	CA-C	-6.52	1.45	1.52
5	5-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	6-X	304	VAL	CA-C	-6.52	1.45	1.52
5	6-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	7-X	304	VAL	CA-C	-6.52	1.45	1.52
5	7-Y	349	LEU	CA-C	-6.52	1.44	1.52
4	8-X	304	VAL	CA-C	-6.52	1.45	1.52
5	8-Y	349	LEU	CA-C	-6.52	1.44	1.52
3	1-D	1478	MET	CA-C	-6.52	1.44	1.52
3	2-D	1478	MET	CA-C	-6.52	1.44	1.52
3	3-D	1478	MET	CA-C	-6.52	1.44	1.52
3	4-D	1478	MET	CA-C	-6.52	1.44	1.52
3	5-D	1478	MET	CA-C	-6.52	1.44	1.52
3	6-D	1478	MET	CA-C	-6.52	1.44	1.52
3	7-D	1478	MET	CA-C	-6.52	1.44	1.52
3	8-D	1478	MET	CA-C	-6.52	1.44	1.52
4	1-R	304	VAL	CA-C	-6.51	1.45	1.52
4	2-R	304	VAL	CA-C	-6.51	1.45	1.52
4	3-R	304	VAL	CA-C	-6.51	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	304	VAL	CA-C	-6.51	1.45	1.52
4	5-R	304	VAL	CA-C	-6.51	1.45	1.52
4	6-R	304	VAL	CA-C	-6.51	1.45	1.52
4	7-R	304	VAL	CA-C	-6.51	1.45	1.52
4	8-R	304	VAL	CA-C	-6.51	1.45	1.52
3	1-J	1662	CYS	CA-C	6.51	1.61	1.52
5	1-M	275	MET	N-CA	6.51	1.54	1.46
3	2-J	1662	CYS	CA-C	6.51	1.61	1.52
5	2-M	275	MET	N-CA	6.51	1.54	1.46
3	3-J	1662	CYS	CA-C	6.51	1.61	1.52
5	3-M	275	MET	N-CA	6.51	1.54	1.46
3	4-J	1662	CYS	CA-C	6.51	1.61	1.52
5	4-M	275	MET	N-CA	6.51	1.54	1.46
3	5-J	1662	CYS	CA-C	6.51	1.61	1.52
5	5-M	275	MET	N-CA	6.51	1.54	1.46
3	6-J	1662	CYS	CA-C	6.51	1.61	1.52
5	6-M	275	MET	N-CA	6.51	1.54	1.46
3	7-J	1662	CYS	CA-C	6.51	1.61	1.52
5	7-M	275	MET	N-CA	6.51	1.54	1.46
3	8-J	1662	CYS	CA-C	6.51	1.61	1.52
5	8-M	275	MET	N-CA	6.51	1.54	1.46
5	1-M	349	LEU	CA-C	-6.51	1.44	1.52
5	1-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	2-M	349	LEU	CA-C	-6.51	1.44	1.52
5	2-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	3-M	349	LEU	CA-C	-6.51	1.44	1.52
5	3-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	4-M	349	LEU	CA-C	-6.51	1.44	1.52
5	4-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	5-M	349	LEU	CA-C	-6.51	1.44	1.52
5	5-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	6-M	349	LEU	CA-C	-6.51	1.44	1.52
5	6-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	7-M	349	LEU	CA-C	-6.51	1.44	1.52
5	7-Y	335	LEU	CA-CB	-6.51	1.42	1.53
5	8-M	349	LEU	CA-C	-6.51	1.44	1.52
5	8-Y	335	LEU	CA-CB	-6.51	1.42	1.53
3	1-V	1487	ASP	N-CA	-6.51	1.37	1.46
3	2-V	1487	ASP	N-CA	-6.51	1.37	1.46
3	3-V	1487	ASP	N-CA	-6.51	1.37	1.46
3	4-V	1487	ASP	N-CA	-6.51	1.37	1.46
3	5-V	1487	ASP	N-CA	-6.51	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-V	1487	ASP	N-CA	-6.51	1.37	1.46
3	7-V	1487	ASP	N-CA	-6.51	1.37	1.46
3	8-V	1487	ASP	N-CA	-6.51	1.37	1.46
4	1-X	142	ASN	CA-C	6.50	1.60	1.52
4	1-X	405	ALA	CA-C	-6.50	1.44	1.52
4	2-X	142	ASN	CA-C	6.50	1.60	1.52
4	2-X	405	ALA	CA-C	-6.50	1.44	1.52
4	3-X	142	ASN	CA-C	6.50	1.60	1.52
4	3-X	405	ALA	CA-C	-6.50	1.44	1.52
4	4-X	142	ASN	CA-C	6.50	1.60	1.52
4	4-X	405	ALA	CA-C	-6.50	1.44	1.52
4	5-X	142	ASN	CA-C	6.50	1.60	1.52
4	5-X	405	ALA	CA-C	-6.50	1.44	1.52
4	6-X	142	ASN	CA-C	6.50	1.60	1.52
4	6-X	405	ALA	CA-C	-6.50	1.44	1.52
4	7-X	142	ASN	CA-C	6.50	1.60	1.52
4	7-X	405	ALA	CA-C	-6.50	1.44	1.52
4	8-X	142	ASN	CA-C	6.50	1.60	1.52
4	8-X	405	ALA	CA-C	-6.50	1.44	1.52
3	1-J	1478	MET	CA-C	-6.49	1.44	1.52
3	2-J	1478	MET	CA-C	-6.49	1.44	1.52
3	3-J	1478	MET	CA-C	-6.49	1.44	1.52
3	4-J	1478	MET	CA-C	-6.49	1.44	1.52
3	5-J	1478	MET	CA-C	-6.49	1.44	1.52
3	6-J	1478	MET	CA-C	-6.49	1.44	1.52
3	7-J	1478	MET	CA-C	-6.49	1.44	1.52
3	8-J	1478	MET	CA-C	-6.49	1.44	1.52
5	1-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	1-L	142	ASN	CA-C	6.49	1.60	1.52
5	2-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	2-L	142	ASN	CA-C	6.49	1.60	1.52
5	3-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	3-L	142	ASN	CA-C	6.49	1.60	1.52
5	4-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	4-L	142	ASN	CA-C	6.49	1.60	1.52
5	5-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	5-L	142	ASN	CA-C	6.49	1.60	1.52
5	6-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	6-L	142	ASN	CA-C	6.49	1.60	1.52
5	7-G	335	LEU	CA-CB	-6.49	1.42	1.53
4	7-L	142	ASN	CA-C	6.49	1.60	1.52
5	8-G	335	LEU	CA-CB	-6.49	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	142	ASN	CA-C	6.49	1.60	1.52
4	1-L	405	ALA	CA-C	-6.49	1.44	1.52
4	1-R	142	ASN	CA-C	6.49	1.60	1.52
4	2-L	405	ALA	CA-C	-6.49	1.44	1.52
4	2-R	142	ASN	CA-C	6.49	1.60	1.52
4	3-L	405	ALA	CA-C	-6.49	1.44	1.52
4	3-R	142	ASN	CA-C	6.49	1.60	1.52
4	4-L	405	ALA	CA-C	-6.49	1.44	1.52
4	4-R	142	ASN	CA-C	6.49	1.60	1.52
4	5-L	405	ALA	CA-C	-6.49	1.44	1.52
4	5-R	142	ASN	CA-C	6.49	1.60	1.52
4	6-L	405	ALA	CA-C	-6.49	1.44	1.52
4	6-R	142	ASN	CA-C	6.49	1.60	1.52
4	7-L	405	ALA	CA-C	-6.49	1.44	1.52
4	7-R	142	ASN	CA-C	6.49	1.60	1.52
4	8-L	405	ALA	CA-C	-6.49	1.44	1.52
4	8-R	142	ASN	CA-C	6.49	1.60	1.52
4	1-F	490	LEU	CA-CB	6.49	1.64	1.53
4	2-F	490	LEU	CA-CB	6.49	1.64	1.53
4	3-F	490	LEU	CA-CB	6.49	1.64	1.53
4	4-F	490	LEU	CA-CB	6.49	1.64	1.53
4	5-F	490	LEU	CA-CB	6.49	1.64	1.53
4	6-F	490	LEU	CA-CB	6.49	1.64	1.53
4	7-F	490	LEU	CA-CB	6.49	1.64	1.53
4	8-F	490	LEU	CA-CB	6.49	1.64	1.53
4	1-F	304	VAL	CA-C	-6.48	1.45	1.52
4	2-F	304	VAL	CA-C	-6.48	1.45	1.52
4	3-F	304	VAL	CA-C	-6.48	1.45	1.52
4	4-F	304	VAL	CA-C	-6.48	1.45	1.52
4	5-F	304	VAL	CA-C	-6.48	1.45	1.52
4	6-F	304	VAL	CA-C	-6.48	1.45	1.52
4	7-F	304	VAL	CA-C	-6.48	1.45	1.52
4	8-F	304	VAL	CA-C	-6.48	1.45	1.52
5	1-S	275	MET	N-CA	6.48	1.54	1.46
5	2-S	275	MET	N-CA	6.48	1.54	1.46
5	3-S	275	MET	N-CA	6.48	1.54	1.46
5	4-S	275	MET	N-CA	6.48	1.54	1.46
5	5-S	275	MET	N-CA	6.48	1.54	1.46
5	6-S	275	MET	N-CA	6.48	1.54	1.46
5	7-S	275	MET	N-CA	6.48	1.54	1.46
5	8-S	275	MET	N-CA	6.48	1.54	1.46
4	1-R	405	ALA	CA-C	-6.46	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	405	ALA	CA-C	-6.46	1.44	1.52
4	3-R	405	ALA	CA-C	-6.46	1.44	1.52
4	4-R	405	ALA	CA-C	-6.46	1.44	1.52
4	5-R	405	ALA	CA-C	-6.46	1.44	1.52
4	6-R	405	ALA	CA-C	-6.46	1.44	1.52
4	7-R	405	ALA	CA-C	-6.46	1.44	1.52
4	8-R	405	ALA	CA-C	-6.46	1.44	1.52
4	1-F	142	ASN	CA-C	6.46	1.60	1.52
4	2-F	142	ASN	CA-C	6.46	1.60	1.52
4	3-F	142	ASN	CA-C	6.46	1.60	1.52
4	4-F	142	ASN	CA-C	6.46	1.60	1.52
4	5-F	142	ASN	CA-C	6.46	1.60	1.52
4	6-F	142	ASN	CA-C	6.46	1.60	1.52
4	7-F	142	ASN	CA-C	6.46	1.60	1.52
4	8-F	142	ASN	CA-C	6.46	1.60	1.52
3	1-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	2-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	3-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	4-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	5-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	6-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	7-P	1470	ILE	N-CA	-6.45	1.39	1.46
3	8-P	1470	ILE	N-CA	-6.45	1.39	1.46
5	1-M	390	GLN	N-CA	6.45	1.54	1.46
5	2-M	390	GLN	N-CA	6.45	1.54	1.46
5	3-M	390	GLN	N-CA	6.45	1.54	1.46
5	4-M	390	GLN	N-CA	6.45	1.54	1.46
5	5-M	390	GLN	N-CA	6.45	1.54	1.46
5	6-M	390	GLN	N-CA	6.45	1.54	1.46
5	7-M	390	GLN	N-CA	6.45	1.54	1.46
5	8-M	390	GLN	N-CA	6.45	1.54	1.46
4	1-F	405	ALA	CA-C	-6.44	1.44	1.52
4	2-F	405	ALA	CA-C	-6.44	1.44	1.52
4	3-F	405	ALA	CA-C	-6.44	1.44	1.52
4	4-F	405	ALA	CA-C	-6.44	1.44	1.52
4	5-F	405	ALA	CA-C	-6.44	1.44	1.52
4	6-F	405	ALA	CA-C	-6.44	1.44	1.52
4	7-F	405	ALA	CA-C	-6.44	1.44	1.52
4	8-F	405	ALA	CA-C	-6.44	1.44	1.52
5	1-Y	390	GLN	N-CA	6.44	1.54	1.46
5	2-Y	390	GLN	N-CA	6.44	1.54	1.46
5	3-Y	390	GLN	N-CA	6.44	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	4-Y	390	GLN	N-CA	6.44	1.54	1.46
5	5-Y	390	GLN	N-CA	6.44	1.54	1.46
5	6-Y	390	GLN	N-CA	6.44	1.54	1.46
5	7-Y	390	GLN	N-CA	6.44	1.54	1.46
5	8-Y	390	GLN	N-CA	6.44	1.54	1.46
5	1-S	390	GLN	N-CA	6.43	1.54	1.46
5	2-S	390	GLN	N-CA	6.43	1.54	1.46
5	3-S	390	GLN	N-CA	6.43	1.54	1.46
5	4-S	390	GLN	N-CA	6.43	1.54	1.46
5	5-S	390	GLN	N-CA	6.43	1.54	1.46
5	6-S	390	GLN	N-CA	6.43	1.54	1.46
5	7-S	390	GLN	N-CA	6.43	1.54	1.46
5	8-S	390	GLN	N-CA	6.43	1.54	1.46
4	1-L	304	VAL	CA-C	-6.43	1.45	1.52
4	2-L	304	VAL	CA-C	-6.43	1.45	1.52
4	3-L	304	VAL	CA-C	-6.43	1.45	1.52
4	4-L	304	VAL	CA-C	-6.43	1.45	1.52
4	5-L	304	VAL	CA-C	-6.43	1.45	1.52
4	6-L	304	VAL	CA-C	-6.43	1.45	1.52
4	7-L	304	VAL	CA-C	-6.43	1.45	1.52
4	8-L	304	VAL	CA-C	-6.43	1.45	1.52
3	1-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	2-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	3-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	4-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	5-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	6-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	7-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	8-J	1470	ILE	N-CA	-6.43	1.39	1.46
3	1-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	2-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	3-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	4-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	5-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	6-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	7-D	1470	ILE	N-CA	-6.42	1.39	1.46
3	8-D	1470	ILE	N-CA	-6.42	1.39	1.46
5	1-G	390	GLN	N-CA	6.42	1.54	1.46
5	2-G	390	GLN	N-CA	6.42	1.54	1.46
5	3-G	390	GLN	N-CA	6.42	1.54	1.46
5	4-G	390	GLN	N-CA	6.42	1.54	1.46
5	5-G	390	GLN	N-CA	6.42	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-G	390	GLN	N-CA	6.42	1.54	1.46
5	7-G	390	GLN	N-CA	6.42	1.54	1.46
5	8-G	390	GLN	N-CA	6.42	1.54	1.46
4	1-X	430	ARG	N-CA	-6.41	1.38	1.46
4	2-X	430	ARG	N-CA	-6.41	1.38	1.46
4	3-X	430	ARG	N-CA	-6.41	1.38	1.46
4	4-X	430	ARG	N-CA	-6.41	1.38	1.46
4	5-X	430	ARG	N-CA	-6.41	1.38	1.46
4	6-X	430	ARG	N-CA	-6.41	1.38	1.46
4	7-X	430	ARG	N-CA	-6.41	1.38	1.46
4	8-X	430	ARG	N-CA	-6.41	1.38	1.46
2	1-U	2	ASP	CA-C	-6.40	1.44	1.52
2	2-U	2	ASP	CA-C	-6.40	1.44	1.52
2	3-U	2	ASP	CA-C	-6.40	1.44	1.52
2	4-U	2	ASP	CA-C	-6.40	1.44	1.52
2	5-U	2	ASP	CA-C	-6.40	1.44	1.52
2	6-U	2	ASP	CA-C	-6.40	1.44	1.52
2	7-U	2	ASP	CA-C	-6.40	1.44	1.52
2	8-U	2	ASP	CA-C	-6.40	1.44	1.52
2	1-C	2	ASP	CA-C	-6.40	1.44	1.52
2	2-C	2	ASP	CA-C	-6.40	1.44	1.52
2	3-C	2	ASP	CA-C	-6.40	1.44	1.52
2	4-C	2	ASP	CA-C	-6.40	1.44	1.52
2	5-C	2	ASP	CA-C	-6.40	1.44	1.52
2	6-C	2	ASP	CA-C	-6.40	1.44	1.52
2	7-C	2	ASP	CA-C	-6.40	1.44	1.52
2	8-C	2	ASP	CA-C	-6.40	1.44	1.52
2	1-O	2	ASP	CA-C	-6.39	1.44	1.52
2	2-O	2	ASP	CA-C	-6.39	1.44	1.52
2	3-O	2	ASP	CA-C	-6.39	1.44	1.52
2	4-O	2	ASP	CA-C	-6.39	1.44	1.52
2	5-O	2	ASP	CA-C	-6.39	1.44	1.52
2	6-O	2	ASP	CA-C	-6.39	1.44	1.52
2	7-O	2	ASP	CA-C	-6.39	1.44	1.52
2	8-O	2	ASP	CA-C	-6.39	1.44	1.52
5	1-G	249	PRO	CA-CB	-6.39	1.44	1.53
5	2-G	249	PRO	CA-CB	-6.39	1.44	1.53
5	3-G	249	PRO	CA-CB	-6.39	1.44	1.53
5	4-G	249	PRO	CA-CB	-6.39	1.44	1.53
5	5-G	249	PRO	CA-CB	-6.39	1.44	1.53
5	6-G	249	PRO	CA-CB	-6.39	1.44	1.53
5	7-G	249	PRO	CA-CB	-6.39	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-G	249	PRO	CA-CB	-6.39	1.44	1.53
4	1-F	430	ARG	N-CA	-6.38	1.38	1.46
5	1-Y	275	MET	CA-CB	6.38	1.63	1.53
4	2-F	430	ARG	N-CA	-6.38	1.38	1.46
5	2-Y	275	MET	CA-CB	6.38	1.63	1.53
4	3-F	430	ARG	N-CA	-6.38	1.38	1.46
5	3-Y	275	MET	CA-CB	6.38	1.63	1.53
4	4-F	430	ARG	N-CA	-6.38	1.38	1.46
5	4-Y	275	MET	CA-CB	6.38	1.63	1.53
4	5-F	430	ARG	N-CA	-6.38	1.38	1.46
5	5-Y	275	MET	CA-CB	6.38	1.63	1.53
4	6-F	430	ARG	N-CA	-6.38	1.38	1.46
5	6-Y	275	MET	CA-CB	6.38	1.63	1.53
4	7-F	430	ARG	N-CA	-6.38	1.38	1.46
5	7-Y	275	MET	CA-CB	6.38	1.63	1.53
4	8-F	430	ARG	N-CA	-6.38	1.38	1.46
5	8-Y	275	MET	CA-CB	6.38	1.63	1.53
5	1-G	275	MET	CA-CB	6.38	1.63	1.53
5	2-G	275	MET	CA-CB	6.38	1.63	1.53
5	3-G	275	MET	CA-CB	6.38	1.63	1.53
5	4-G	275	MET	CA-CB	6.38	1.63	1.53
5	5-G	275	MET	CA-CB	6.38	1.63	1.53
5	6-G	275	MET	CA-CB	6.38	1.63	1.53
5	7-G	275	MET	CA-CB	6.38	1.63	1.53
5	8-G	275	MET	CA-CB	6.38	1.63	1.53
5	1-S	275	MET	CA-CB	6.37	1.63	1.53
5	2-S	275	MET	CA-CB	6.37	1.63	1.53
5	3-S	275	MET	CA-CB	6.37	1.63	1.53
5	4-S	275	MET	CA-CB	6.37	1.63	1.53
5	5-S	275	MET	CA-CB	6.37	1.63	1.53
5	6-S	275	MET	CA-CB	6.37	1.63	1.53
5	7-S	275	MET	CA-CB	6.37	1.63	1.53
5	8-S	275	MET	CA-CB	6.37	1.63	1.53
3	1-J	1503	ILE	C-N	6.37	1.41	1.34
3	2-J	1503	ILE	C-N	6.37	1.41	1.34
3	3-J	1503	ILE	C-N	6.37	1.41	1.34
3	4-J	1503	ILE	C-N	6.37	1.41	1.34
3	5-J	1503	ILE	C-N	6.37	1.41	1.34
3	6-J	1503	ILE	C-N	6.37	1.41	1.34
3	7-J	1503	ILE	C-N	6.37	1.41	1.34
3	8-J	1503	ILE	C-N	6.37	1.41	1.34
5	1-M	275	MET	CA-CB	6.36	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-M	275	MET	CA-CB	6.36	1.63	1.53
5	3-M	275	MET	CA-CB	6.36	1.63	1.53
5	4-M	275	MET	CA-CB	6.36	1.63	1.53
5	5-M	275	MET	CA-CB	6.36	1.63	1.53
5	6-M	275	MET	CA-CB	6.36	1.63	1.53
5	7-M	275	MET	CA-CB	6.36	1.63	1.53
5	8-M	275	MET	CA-CB	6.36	1.63	1.53
3	1-V	1503	ILE	C-N	6.36	1.41	1.34
3	2-V	1503	ILE	C-N	6.36	1.41	1.34
3	3-V	1503	ILE	C-N	6.36	1.41	1.34
3	4-V	1503	ILE	C-N	6.36	1.41	1.34
3	5-V	1503	ILE	C-N	6.36	1.41	1.34
3	6-V	1503	ILE	C-N	6.36	1.41	1.34
3	7-V	1503	ILE	C-N	6.36	1.41	1.34
3	8-V	1503	ILE	C-N	6.36	1.41	1.34
2	1-I	2	ASP	CA-C	-6.36	1.44	1.52
2	2-I	2	ASP	CA-C	-6.36	1.44	1.52
2	3-I	2	ASP	CA-C	-6.36	1.44	1.52
2	4-I	2	ASP	CA-C	-6.36	1.44	1.52
2	5-I	2	ASP	CA-C	-6.36	1.44	1.52
2	6-I	2	ASP	CA-C	-6.36	1.44	1.52
2	7-I	2	ASP	CA-C	-6.36	1.44	1.52
2	8-I	2	ASP	CA-C	-6.36	1.44	1.52
5	1-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	2-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	3-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	4-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	5-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	6-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	7-M	249	PRO	CA-CB	-6.35	1.44	1.53
5	8-M	249	PRO	CA-CB	-6.35	1.44	1.53
4	1-R	430	ARG	N-CA	-6.35	1.38	1.46
4	2-R	430	ARG	N-CA	-6.35	1.38	1.46
4	3-R	430	ARG	N-CA	-6.35	1.38	1.46
4	4-R	430	ARG	N-CA	-6.35	1.38	1.46
4	5-R	430	ARG	N-CA	-6.35	1.38	1.46
4	6-R	430	ARG	N-CA	-6.35	1.38	1.46
4	7-R	430	ARG	N-CA	-6.35	1.38	1.46
4	8-R	430	ARG	N-CA	-6.35	1.38	1.46
3	1-D	1503	ILE	C-N	6.34	1.41	1.34
3	2-D	1503	ILE	C-N	6.34	1.41	1.34
3	3-D	1503	ILE	C-N	6.34	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	1503	ILE	C-N	6.34	1.41	1.34
3	5-D	1503	ILE	C-N	6.34	1.41	1.34
3	6-D	1503	ILE	C-N	6.34	1.41	1.34
3	7-D	1503	ILE	C-N	6.34	1.41	1.34
3	8-D	1503	ILE	C-N	6.34	1.41	1.34
3	1-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	1-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	2-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	2-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	3-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	3-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	4-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	4-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	5-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	5-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	6-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	6-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	7-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	7-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	8-D	1685	LEU	CA-C	-6.34	1.46	1.53
5	8-S	249	PRO	CA-CB	-6.34	1.44	1.53
3	1-P	1503	ILE	C-N	6.33	1.41	1.34
3	2-P	1503	ILE	C-N	6.33	1.41	1.34
3	3-P	1503	ILE	C-N	6.33	1.41	1.34
3	4-P	1503	ILE	C-N	6.33	1.41	1.34
3	5-P	1503	ILE	C-N	6.33	1.41	1.34
3	6-P	1503	ILE	C-N	6.33	1.41	1.34
3	7-P	1503	ILE	C-N	6.33	1.41	1.34
3	8-P	1503	ILE	C-N	6.33	1.41	1.34
5	1-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	2-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	3-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	4-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	5-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	6-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	7-Y	249	PRO	CA-CB	-6.33	1.44	1.53
5	8-Y	249	PRO	CA-CB	-6.33	1.44	1.53
4	1-L	430	ARG	N-CA	-6.32	1.38	1.46
3	1-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	2-L	430	ARG	N-CA	-6.32	1.38	1.46
3	2-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	3-L	430	ARG	N-CA	-6.32	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	4-L	430	ARG	N-CA	-6.32	1.38	1.46
3	4-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	5-L	430	ARG	N-CA	-6.32	1.38	1.46
3	5-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	6-L	430	ARG	N-CA	-6.32	1.38	1.46
3	6-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	7-L	430	ARG	N-CA	-6.32	1.38	1.46
3	7-P	1685	LEU	CA-C	-6.32	1.46	1.53
4	8-L	430	ARG	N-CA	-6.32	1.38	1.46
3	8-P	1685	LEU	CA-C	-6.32	1.46	1.53
3	1-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	1-R	483	ASP	CA-C	6.32	1.61	1.52
5	1-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	2-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	2-R	483	ASP	CA-C	6.32	1.61	1.52
5	2-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	3-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	3-R	483	ASP	CA-C	6.32	1.61	1.52
5	3-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	4-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	4-R	483	ASP	CA-C	6.32	1.61	1.52
5	4-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	5-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	5-R	483	ASP	CA-C	6.32	1.61	1.52
5	5-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	6-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	6-R	483	ASP	CA-C	6.32	1.61	1.52
5	6-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	7-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	7-R	483	ASP	CA-C	6.32	1.61	1.52
5	7-Y	249	PRO	CA-C	-6.32	1.43	1.52
3	8-J	1685	LEU	CA-C	-6.32	1.46	1.53
4	8-R	483	ASP	CA-C	6.32	1.61	1.52
5	8-Y	249	PRO	CA-C	-6.32	1.43	1.52
4	1-X	433	GLU	CA-C	6.31	1.61	1.52
6	1-Z	409	PRO	C-O	6.31	1.32	1.24
4	2-X	433	GLU	CA-C	6.31	1.61	1.52
6	2-Z	409	PRO	C-O	6.31	1.32	1.24
4	3-X	433	GLU	CA-C	6.31	1.61	1.52
6	3-Z	409	PRO	C-O	6.31	1.32	1.24
4	4-X	433	GLU	CA-C	6.31	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	409	PRO	C-O	6.31	1.32	1.24
4	5-X	433	GLU	CA-C	6.31	1.61	1.52
6	5-Z	409	PRO	C-O	6.31	1.32	1.24
4	6-X	433	GLU	CA-C	6.31	1.61	1.52
6	6-Z	409	PRO	C-O	6.31	1.32	1.24
4	7-X	433	GLU	CA-C	6.31	1.61	1.52
6	7-Z	409	PRO	C-O	6.31	1.32	1.24
4	8-X	433	GLU	CA-C	6.31	1.61	1.52
6	8-Z	409	PRO	C-O	6.31	1.32	1.24
4	1-L	483	ASP	CA-C	6.31	1.61	1.52
4	2-L	483	ASP	CA-C	6.31	1.61	1.52
4	3-L	483	ASP	CA-C	6.31	1.61	1.52
4	4-L	483	ASP	CA-C	6.31	1.61	1.52
4	5-L	483	ASP	CA-C	6.31	1.61	1.52
4	6-L	483	ASP	CA-C	6.31	1.61	1.52
4	7-L	483	ASP	CA-C	6.31	1.61	1.52
4	8-L	483	ASP	CA-C	6.31	1.61	1.52
3	1-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	2-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	3-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	4-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	5-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	6-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	7-V	1685	LEU	CA-C	-6.29	1.46	1.53
3	8-V	1685	LEU	CA-C	-6.29	1.46	1.53
5	1-S	249	PRO	CA-C	-6.29	1.43	1.52
5	2-S	249	PRO	CA-C	-6.29	1.43	1.52
5	3-S	249	PRO	CA-C	-6.29	1.43	1.52
5	4-S	249	PRO	CA-C	-6.29	1.43	1.52
5	5-S	249	PRO	CA-C	-6.29	1.43	1.52
5	6-S	249	PRO	CA-C	-6.29	1.43	1.52
5	7-S	249	PRO	CA-C	-6.29	1.43	1.52
5	8-S	249	PRO	CA-C	-6.29	1.43	1.52
2	1-C	10	LEU	CA-C	-6.29	1.44	1.52
4	1-F	433	GLU	CA-C	6.29	1.61	1.52
2	2-C	10	LEU	CA-C	-6.29	1.44	1.52
4	2-F	433	GLU	CA-C	6.29	1.61	1.52
2	3-C	10	LEU	CA-C	-6.29	1.44	1.52
4	3-F	433	GLU	CA-C	6.29	1.61	1.52
2	4-C	10	LEU	CA-C	-6.29	1.44	1.52
4	4-F	433	GLU	CA-C	6.29	1.61	1.52
2	5-C	10	LEU	CA-C	-6.29	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-F	433	GLU	CA-C	6.29	1.61	1.52
2	6-C	10	LEU	CA-C	-6.29	1.44	1.52
4	6-F	433	GLU	CA-C	6.29	1.61	1.52
2	7-C	10	LEU	CA-C	-6.29	1.44	1.52
4	7-F	433	GLU	CA-C	6.29	1.61	1.52
2	8-C	10	LEU	CA-C	-6.29	1.44	1.52
4	8-F	433	GLU	CA-C	6.29	1.61	1.52
4	1-F	483	ASP	CA-C	6.29	1.61	1.52
4	1-L	421	LEU	CA-C	-6.29	1.44	1.52
4	2-F	483	ASP	CA-C	6.29	1.61	1.52
4	2-L	421	LEU	CA-C	-6.29	1.44	1.52
4	3-F	483	ASP	CA-C	6.29	1.61	1.52
4	3-L	421	LEU	CA-C	-6.29	1.44	1.52
4	4-F	483	ASP	CA-C	6.29	1.61	1.52
4	4-L	421	LEU	CA-C	-6.29	1.44	1.52
4	5-F	483	ASP	CA-C	6.29	1.61	1.52
4	5-L	421	LEU	CA-C	-6.29	1.44	1.52
4	6-F	483	ASP	CA-C	6.29	1.61	1.52
4	6-L	421	LEU	CA-C	-6.29	1.44	1.52
4	7-F	483	ASP	CA-C	6.29	1.61	1.52
4	7-L	421	LEU	CA-C	-6.29	1.44	1.52
4	8-F	483	ASP	CA-C	6.29	1.61	1.52
4	8-L	421	LEU	CA-C	-6.29	1.44	1.52
6	1-N	366	ILE	CA-C	6.28	1.60	1.52
4	1-X	483	ASP	CA-C	6.28	1.61	1.52
6	2-N	366	ILE	CA-C	6.28	1.60	1.52
4	2-X	483	ASP	CA-C	6.28	1.61	1.52
6	3-N	366	ILE	CA-C	6.28	1.60	1.52
4	3-X	483	ASP	CA-C	6.28	1.61	1.52
6	4-N	366	ILE	CA-C	6.28	1.60	1.52
4	4-X	483	ASP	CA-C	6.28	1.61	1.52
6	5-N	366	ILE	CA-C	6.28	1.60	1.52
4	5-X	483	ASP	CA-C	6.28	1.61	1.52
6	6-N	366	ILE	CA-C	6.28	1.60	1.52
4	6-X	483	ASP	CA-C	6.28	1.61	1.52
6	7-N	366	ILE	CA-C	6.28	1.60	1.52
4	7-X	483	ASP	CA-C	6.28	1.61	1.52
6	8-N	366	ILE	CA-C	6.28	1.60	1.52
4	8-X	483	ASP	CA-C	6.28	1.61	1.52
3	1-D	1544	PRO	C-O	6.28	1.31	1.24
3	2-D	1544	PRO	C-O	6.28	1.31	1.24
3	3-D	1544	PRO	C-O	6.28	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	1544	PRO	C-O	6.28	1.31	1.24
3	5-D	1544	PRO	C-O	6.28	1.31	1.24
3	6-D	1544	PRO	C-O	6.28	1.31	1.24
3	7-D	1544	PRO	C-O	6.28	1.31	1.24
3	8-D	1544	PRO	C-O	6.28	1.31	1.24
4	1-R	433	GLU	CA-C	6.28	1.61	1.52
6	1-Z	366	ILE	CA-C	6.28	1.60	1.52
4	2-R	433	GLU	CA-C	6.28	1.61	1.52
6	2-Z	366	ILE	CA-C	6.28	1.60	1.52
4	3-R	433	GLU	CA-C	6.28	1.61	1.52
6	3-Z	366	ILE	CA-C	6.28	1.60	1.52
4	4-R	433	GLU	CA-C	6.28	1.61	1.52
6	4-Z	366	ILE	CA-C	6.28	1.60	1.52
4	5-R	433	GLU	CA-C	6.28	1.61	1.52
6	5-Z	366	ILE	CA-C	6.28	1.60	1.52
4	6-R	433	GLU	CA-C	6.28	1.61	1.52
6	6-Z	366	ILE	CA-C	6.28	1.60	1.52
4	7-R	433	GLU	CA-C	6.28	1.61	1.52
6	7-Z	366	ILE	CA-C	6.28	1.60	1.52
4	8-R	433	GLU	CA-C	6.28	1.61	1.52
6	8-Z	366	ILE	CA-C	6.28	1.60	1.52
4	1-F	421	LEU	CA-C	-6.28	1.44	1.52
5	1-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	2-F	421	LEU	CA-C	-6.28	1.44	1.52
5	2-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	3-F	421	LEU	CA-C	-6.28	1.44	1.52
5	3-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	4-F	421	LEU	CA-C	-6.28	1.44	1.52
5	4-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	5-F	421	LEU	CA-C	-6.28	1.44	1.52
5	5-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	6-F	421	LEU	CA-C	-6.28	1.44	1.52
5	6-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	7-F	421	LEU	CA-C	-6.28	1.44	1.52
5	7-Y	340	ALA	CA-CB	-6.28	1.44	1.52
4	8-F	421	LEU	CA-C	-6.28	1.44	1.52
5	8-Y	340	ALA	CA-CB	-6.28	1.44	1.52
3	1-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	1-L	433	GLU	CA-C	6.28	1.61	1.52
6	1-T	409	PRO	C-O	6.28	1.32	1.24
3	2-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	2-L	433	GLU	CA-C	6.28	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-T	409	PRO	C-O	6.28	1.32	1.24
3	3-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	3-L	433	GLU	CA-C	6.28	1.61	1.52
6	3-T	409	PRO	C-O	6.28	1.32	1.24
3	4-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	4-L	433	GLU	CA-C	6.28	1.61	1.52
6	4-T	409	PRO	C-O	6.28	1.32	1.24
3	5-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	5-L	433	GLU	CA-C	6.28	1.61	1.52
6	5-T	409	PRO	C-O	6.28	1.32	1.24
3	6-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	6-L	433	GLU	CA-C	6.28	1.61	1.52
6	6-T	409	PRO	C-O	6.28	1.32	1.24
3	7-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	7-L	433	GLU	CA-C	6.28	1.61	1.52
6	7-T	409	PRO	C-O	6.28	1.32	1.24
3	8-D	1532	ASP	CA-C	-6.28	1.44	1.52
4	8-L	433	GLU	CA-C	6.28	1.61	1.52
6	8-T	409	PRO	C-O	6.28	1.32	1.24
3	1-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	2-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	3-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	4-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	5-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	6-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	7-P	1532	ASP	CA-C	-6.27	1.44	1.52
3	8-P	1532	ASP	CA-C	-6.27	1.44	1.52
6	1-H	366	ILE	CA-C	6.27	1.60	1.52
2	1-O	10	LEU	CA-C	-6.27	1.44	1.52
6	2-H	366	ILE	CA-C	6.27	1.60	1.52
2	2-O	10	LEU	CA-C	-6.27	1.44	1.52
6	3-H	366	ILE	CA-C	6.27	1.60	1.52
2	3-O	10	LEU	CA-C	-6.27	1.44	1.52
6	4-H	366	ILE	CA-C	6.27	1.60	1.52
2	4-O	10	LEU	CA-C	-6.27	1.44	1.52
6	5-H	366	ILE	CA-C	6.27	1.60	1.52
2	5-O	10	LEU	CA-C	-6.27	1.44	1.52
6	6-H	366	ILE	CA-C	6.27	1.60	1.52
2	6-O	10	LEU	CA-C	-6.27	1.44	1.52
6	7-H	366	ILE	CA-C	6.27	1.60	1.52
2	7-O	10	LEU	CA-C	-6.27	1.44	1.52
6	8-H	366	ILE	CA-C	6.27	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-O	10	LEU	CA-C	-6.27	1.44	1.52
3	1-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	2-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	3-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	4-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	5-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	6-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	7-J	1532	ASP	CA-C	-6.27	1.44	1.52
3	8-J	1532	ASP	CA-C	-6.27	1.44	1.52
4	1-X	396	GLN	N-CA	6.26	1.53	1.46
4	2-X	396	GLN	N-CA	6.26	1.53	1.46
4	3-X	396	GLN	N-CA	6.26	1.53	1.46
4	4-X	396	GLN	N-CA	6.26	1.53	1.46
4	5-X	396	GLN	N-CA	6.26	1.53	1.46
4	6-X	396	GLN	N-CA	6.26	1.53	1.46
4	7-X	396	GLN	N-CA	6.26	1.53	1.46
4	8-X	396	GLN	N-CA	6.26	1.53	1.46
4	1-F	396	GLN	N-CA	6.26	1.53	1.46
4	2-F	396	GLN	N-CA	6.26	1.53	1.46
4	3-F	396	GLN	N-CA	6.26	1.53	1.46
4	4-F	396	GLN	N-CA	6.26	1.53	1.46
4	5-F	396	GLN	N-CA	6.26	1.53	1.46
4	6-F	396	GLN	N-CA	6.26	1.53	1.46
4	7-F	396	GLN	N-CA	6.26	1.53	1.46
4	8-F	396	GLN	N-CA	6.26	1.53	1.46
6	1-H	409	PRO	C-O	6.26	1.32	1.24
4	1-R	421	LEU	CA-C	-6.26	1.44	1.52
6	2-H	409	PRO	C-O	6.26	1.32	1.24
4	2-R	421	LEU	CA-C	-6.26	1.44	1.52
6	3-H	409	PRO	C-O	6.26	1.32	1.24
4	3-R	421	LEU	CA-C	-6.26	1.44	1.52
6	4-H	409	PRO	C-O	6.26	1.32	1.24
4	4-R	421	LEU	CA-C	-6.26	1.44	1.52
6	5-H	409	PRO	C-O	6.26	1.32	1.24
4	5-R	421	LEU	CA-C	-6.26	1.44	1.52
6	6-H	409	PRO	C-O	6.26	1.32	1.24
4	6-R	421	LEU	CA-C	-6.26	1.44	1.52
6	7-H	409	PRO	C-O	6.26	1.32	1.24
4	7-R	421	LEU	CA-C	-6.26	1.44	1.52
6	8-H	409	PRO	C-O	6.26	1.32	1.24
4	8-R	421	LEU	CA-C	-6.26	1.44	1.52
3	1-P	1531	GLU	C-N	6.26	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-P	1531	GLU	C-N	6.26	1.42	1.33
3	3-P	1531	GLU	C-N	6.26	1.42	1.33
3	4-P	1531	GLU	C-N	6.26	1.42	1.33
3	5-P	1531	GLU	C-N	6.26	1.42	1.33
3	6-P	1531	GLU	C-N	6.26	1.42	1.33
3	7-P	1531	GLU	C-N	6.26	1.42	1.33
3	8-P	1531	GLU	C-N	6.26	1.42	1.33
5	1-G	249	PRO	CA-C	-6.25	1.43	1.52
6	1-N	409	PRO	C-O	6.25	1.32	1.24
5	2-G	249	PRO	CA-C	-6.25	1.43	1.52
6	2-N	409	PRO	C-O	6.25	1.32	1.24
5	3-G	249	PRO	CA-C	-6.25	1.43	1.52
6	3-N	409	PRO	C-O	6.25	1.32	1.24
5	4-G	249	PRO	CA-C	-6.25	1.43	1.52
6	4-N	409	PRO	C-O	6.25	1.32	1.24
5	5-G	249	PRO	CA-C	-6.25	1.43	1.52
6	5-N	409	PRO	C-O	6.25	1.32	1.24
5	6-G	249	PRO	CA-C	-6.25	1.43	1.52
6	6-N	409	PRO	C-O	6.25	1.32	1.24
5	7-G	249	PRO	CA-C	-6.25	1.43	1.52
6	7-N	409	PRO	C-O	6.25	1.32	1.24
5	8-G	249	PRO	CA-C	-6.25	1.43	1.52
6	8-N	409	PRO	C-O	6.25	1.32	1.24
3	1-P	1492	GLY	C-N	6.25	1.42	1.33
3	1-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	2-P	1492	GLY	C-N	6.25	1.42	1.33
3	2-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	3-P	1492	GLY	C-N	6.25	1.42	1.33
3	3-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	4-P	1492	GLY	C-N	6.25	1.42	1.33
3	4-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	5-P	1492	GLY	C-N	6.25	1.42	1.33
3	5-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	6-P	1492	GLY	C-N	6.25	1.42	1.33
3	6-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	7-P	1492	GLY	C-N	6.25	1.42	1.33
3	7-V	1532	ASP	CA-C	-6.25	1.44	1.52
3	8-P	1492	GLY	C-N	6.25	1.42	1.33
3	8-V	1532	ASP	CA-C	-6.25	1.44	1.52
4	1-L	411	ARG	N-CA	-6.25	1.38	1.46
4	2-L	411	ARG	N-CA	-6.25	1.38	1.46
4	3-L	411	ARG	N-CA	-6.25	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	411	ARG	N-CA	-6.25	1.38	1.46
4	5-L	411	ARG	N-CA	-6.25	1.38	1.46
4	6-L	411	ARG	N-CA	-6.25	1.38	1.46
4	7-L	411	ARG	N-CA	-6.25	1.38	1.46
4	8-L	411	ARG	N-CA	-6.25	1.38	1.46
5	1-M	319	LEU	CA-C	-6.24	1.44	1.52
5	2-M	319	LEU	CA-C	-6.24	1.44	1.52
5	3-M	319	LEU	CA-C	-6.24	1.44	1.52
5	4-M	319	LEU	CA-C	-6.24	1.44	1.52
5	5-M	319	LEU	CA-C	-6.24	1.44	1.52
5	6-M	319	LEU	CA-C	-6.24	1.44	1.52
5	7-M	319	LEU	CA-C	-6.24	1.44	1.52
5	8-M	319	LEU	CA-C	-6.24	1.44	1.52
3	1-D	1492	GLY	C-N	6.24	1.42	1.33
2	1-U	10	LEU	CA-C	-6.24	1.44	1.52
3	2-D	1492	GLY	C-N	6.24	1.42	1.33
2	2-U	10	LEU	CA-C	-6.24	1.44	1.52
3	3-D	1492	GLY	C-N	6.24	1.42	1.33
2	3-U	10	LEU	CA-C	-6.24	1.44	1.52
3	4-D	1492	GLY	C-N	6.24	1.42	1.33
2	4-U	10	LEU	CA-C	-6.24	1.44	1.52
3	5-D	1492	GLY	C-N	6.24	1.42	1.33
2	5-U	10	LEU	CA-C	-6.24	1.44	1.52
3	6-D	1492	GLY	C-N	6.24	1.42	1.33
2	6-U	10	LEU	CA-C	-6.24	1.44	1.52
3	7-D	1492	GLY	C-N	6.24	1.42	1.33
2	7-U	10	LEU	CA-C	-6.24	1.44	1.52
3	8-D	1492	GLY	C-N	6.24	1.42	1.33
2	8-U	10	LEU	CA-C	-6.24	1.44	1.52
5	1-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	1-T	366	ILE	CA-C	6.24	1.60	1.52
5	2-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	2-T	366	ILE	CA-C	6.24	1.60	1.52
5	3-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	3-T	366	ILE	CA-C	6.24	1.60	1.52
5	4-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	4-T	366	ILE	CA-C	6.24	1.60	1.52
5	5-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	5-T	366	ILE	CA-C	6.24	1.60	1.52
5	6-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	6-T	366	ILE	CA-C	6.24	1.60	1.52
5	7-S	340	ALA	CA-CB	-6.24	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	7-T	366	ILE	CA-C	6.24	1.60	1.52
5	8-S	340	ALA	CA-CB	-6.24	1.44	1.52
6	8-T	366	ILE	CA-C	6.24	1.60	1.52
5	1-M	249	PRO	CA-C	-6.23	1.43	1.52
5	2-M	249	PRO	CA-C	-6.23	1.43	1.52
5	3-M	249	PRO	CA-C	-6.23	1.43	1.52
5	4-M	249	PRO	CA-C	-6.23	1.43	1.52
5	5-M	249	PRO	CA-C	-6.23	1.43	1.52
5	6-M	249	PRO	CA-C	-6.23	1.43	1.52
5	7-M	249	PRO	CA-C	-6.23	1.43	1.52
5	8-M	249	PRO	CA-C	-6.23	1.43	1.52
5	1-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	1-V	1531	GLU	C-N	6.23	1.42	1.33
5	2-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	2-V	1531	GLU	C-N	6.23	1.42	1.33
5	3-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	3-V	1531	GLU	C-N	6.23	1.42	1.33
5	4-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	4-V	1531	GLU	C-N	6.23	1.42	1.33
5	5-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	5-V	1531	GLU	C-N	6.23	1.42	1.33
5	6-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	6-V	1531	GLU	C-N	6.23	1.42	1.33
5	7-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	7-V	1531	GLU	C-N	6.23	1.42	1.33
5	8-M	340	ALA	CA-CB	-6.23	1.44	1.52
3	8-V	1531	GLU	C-N	6.23	1.42	1.33
4	1-X	421	LEU	CA-C	-6.23	1.45	1.52
5	1-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	2-X	421	LEU	CA-C	-6.23	1.45	1.52
5	2-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	3-X	421	LEU	CA-C	-6.23	1.45	1.52
5	3-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	4-X	421	LEU	CA-C	-6.23	1.45	1.52
5	4-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	5-X	421	LEU	CA-C	-6.23	1.45	1.52
5	5-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	6-X	421	LEU	CA-C	-6.23	1.45	1.52
5	6-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	7-X	421	LEU	CA-C	-6.23	1.45	1.52
5	7-Y	411	LYS	CA-C	-6.23	1.44	1.52
4	8-X	421	LEU	CA-C	-6.23	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-Y	411	LYS	CA-C	-6.23	1.44	1.52
3	1-D	1531	GLU	C-N	6.23	1.42	1.33
3	1-J	1492	GLY	C-N	6.23	1.42	1.33
3	1-V	1492	GLY	C-N	6.23	1.42	1.33
3	2-D	1531	GLU	C-N	6.23	1.42	1.33
3	2-J	1492	GLY	C-N	6.23	1.42	1.33
3	2-V	1492	GLY	C-N	6.23	1.42	1.33
3	3-D	1531	GLU	C-N	6.23	1.42	1.33
3	3-J	1492	GLY	C-N	6.23	1.42	1.33
3	3-V	1492	GLY	C-N	6.23	1.42	1.33
3	4-D	1531	GLU	C-N	6.23	1.42	1.33
3	4-J	1492	GLY	C-N	6.23	1.42	1.33
3	4-V	1492	GLY	C-N	6.23	1.42	1.33
3	5-D	1531	GLU	C-N	6.23	1.42	1.33
3	5-J	1492	GLY	C-N	6.23	1.42	1.33
3	5-V	1492	GLY	C-N	6.23	1.42	1.33
3	6-D	1531	GLU	C-N	6.23	1.42	1.33
3	6-J	1492	GLY	C-N	6.23	1.42	1.33
3	6-V	1492	GLY	C-N	6.23	1.42	1.33
3	7-D	1531	GLU	C-N	6.23	1.42	1.33
3	7-J	1492	GLY	C-N	6.23	1.42	1.33
3	7-V	1492	GLY	C-N	6.23	1.42	1.33
3	8-D	1531	GLU	C-N	6.23	1.42	1.33
3	8-J	1492	GLY	C-N	6.23	1.42	1.33
3	8-V	1492	GLY	C-N	6.23	1.42	1.33
5	1-S	319	LEU	CA-C	-6.22	1.44	1.52
5	2-S	319	LEU	CA-C	-6.22	1.44	1.52
5	3-S	319	LEU	CA-C	-6.22	1.44	1.52
5	4-S	319	LEU	CA-C	-6.22	1.44	1.52
5	5-S	319	LEU	CA-C	-6.22	1.44	1.52
5	6-S	319	LEU	CA-C	-6.22	1.44	1.52
5	7-S	319	LEU	CA-C	-6.22	1.44	1.52
5	8-S	319	LEU	CA-C	-6.22	1.44	1.52
2	1-I	10	LEU	CA-C	-6.22	1.44	1.52
5	1-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	2-I	10	LEU	CA-C	-6.22	1.44	1.52
5	2-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	3-I	10	LEU	CA-C	-6.22	1.44	1.52
5	3-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	4-I	10	LEU	CA-C	-6.22	1.44	1.52
5	4-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	5-I	10	LEU	CA-C	-6.22	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	6-I	10	LEU	CA-C	-6.22	1.44	1.52
5	6-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	7-I	10	LEU	CA-C	-6.22	1.44	1.52
5	7-Y	319	LEU	CA-C	-6.22	1.44	1.52
2	8-I	10	LEU	CA-C	-6.22	1.44	1.52
5	8-Y	319	LEU	CA-C	-6.22	1.44	1.52
3	1-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	1-R	430	ARG	CA-C	-6.22	1.45	1.52
3	2-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	2-R	430	ARG	CA-C	-6.22	1.45	1.52
3	3-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	3-R	430	ARG	CA-C	-6.22	1.45	1.52
3	4-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	4-R	430	ARG	CA-C	-6.22	1.45	1.52
3	5-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	5-R	430	ARG	CA-C	-6.22	1.45	1.52
3	6-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	6-R	430	ARG	CA-C	-6.22	1.45	1.52
3	7-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	7-R	430	ARG	CA-C	-6.22	1.45	1.52
3	8-P	1499	LEU	CA-C	-6.22	1.44	1.52
4	8-R	430	ARG	CA-C	-6.22	1.45	1.52
4	1-X	339	VAL	N-CA	6.22	1.53	1.46
4	2-X	339	VAL	N-CA	6.22	1.53	1.46
4	3-X	339	VAL	N-CA	6.22	1.53	1.46
4	4-X	339	VAL	N-CA	6.22	1.53	1.46
4	5-X	339	VAL	N-CA	6.22	1.53	1.46
4	6-X	339	VAL	N-CA	6.22	1.53	1.46
4	7-X	339	VAL	N-CA	6.22	1.53	1.46
4	8-X	339	VAL	N-CA	6.22	1.53	1.46
4	1-F	339	VAL	N-CA	6.21	1.53	1.46
3	1-J	1531	GLU	C-N	6.21	1.42	1.33
4	2-F	339	VAL	N-CA	6.21	1.53	1.46
3	2-J	1531	GLU	C-N	6.21	1.42	1.33
4	3-F	339	VAL	N-CA	6.21	1.53	1.46
3	3-J	1531	GLU	C-N	6.21	1.42	1.33
4	4-F	339	VAL	N-CA	6.21	1.53	1.46
3	4-J	1531	GLU	C-N	6.21	1.42	1.33
4	5-F	339	VAL	N-CA	6.21	1.53	1.46
3	5-J	1531	GLU	C-N	6.21	1.42	1.33
4	6-F	339	VAL	N-CA	6.21	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-J	1531	GLU	C-N	6.21	1.42	1.33
4	7-F	339	VAL	N-CA	6.21	1.53	1.46
3	7-J	1531	GLU	C-N	6.21	1.42	1.33
4	8-F	339	VAL	N-CA	6.21	1.53	1.46
3	8-J	1531	GLU	C-N	6.21	1.42	1.33
4	1-F	328	VAL	N-CA	6.21	1.55	1.46
4	2-F	328	VAL	N-CA	6.21	1.55	1.46
4	3-F	328	VAL	N-CA	6.21	1.55	1.46
4	4-F	328	VAL	N-CA	6.21	1.55	1.46
4	5-F	328	VAL	N-CA	6.21	1.55	1.46
4	6-F	328	VAL	N-CA	6.21	1.55	1.46
4	7-F	328	VAL	N-CA	6.21	1.55	1.46
4	8-F	328	VAL	N-CA	6.21	1.55	1.46
4	1-F	430	ARG	CA-C	-6.21	1.45	1.52
4	2-F	430	ARG	CA-C	-6.21	1.45	1.52
4	3-F	430	ARG	CA-C	-6.21	1.45	1.52
4	4-F	430	ARG	CA-C	-6.21	1.45	1.52
4	5-F	430	ARG	CA-C	-6.21	1.45	1.52
4	6-F	430	ARG	CA-C	-6.21	1.45	1.52
4	7-F	430	ARG	CA-C	-6.21	1.45	1.52
4	8-F	430	ARG	CA-C	-6.21	1.45	1.52
3	1-P	1544	PRO	C-O	6.20	1.31	1.24
4	1-R	411	ARG	N-CA	-6.20	1.38	1.46
3	2-P	1544	PRO	C-O	6.20	1.31	1.24
4	2-R	411	ARG	N-CA	-6.20	1.38	1.46
3	3-P	1544	PRO	C-O	6.20	1.31	1.24
4	3-R	411	ARG	N-CA	-6.20	1.38	1.46
3	4-P	1544	PRO	C-O	6.20	1.31	1.24
4	4-R	411	ARG	N-CA	-6.20	1.38	1.46
3	5-P	1544	PRO	C-O	6.20	1.31	1.24
4	5-R	411	ARG	N-CA	-6.20	1.38	1.46
3	6-P	1544	PRO	C-O	6.20	1.31	1.24
4	6-R	411	ARG	N-CA	-6.20	1.38	1.46
3	7-P	1544	PRO	C-O	6.20	1.31	1.24
4	7-R	411	ARG	N-CA	-6.20	1.38	1.46
3	8-P	1544	PRO	C-O	6.20	1.31	1.24
4	8-R	411	ARG	N-CA	-6.20	1.38	1.46
4	1-X	411	ARG	N-CA	-6.20	1.38	1.46
4	2-X	411	ARG	N-CA	-6.20	1.38	1.46
4	3-X	411	ARG	N-CA	-6.20	1.38	1.46
4	4-X	411	ARG	N-CA	-6.20	1.38	1.46
4	5-X	411	ARG	N-CA	-6.20	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-X	411	ARG	N-CA	-6.20	1.38	1.46
4	7-X	411	ARG	N-CA	-6.20	1.38	1.46
4	8-X	411	ARG	N-CA	-6.20	1.38	1.46
5	1-G	411	LYS	CA-C	-6.20	1.44	1.52
5	2-G	411	LYS	CA-C	-6.20	1.44	1.52
5	3-G	411	LYS	CA-C	-6.20	1.44	1.52
5	4-G	411	LYS	CA-C	-6.20	1.44	1.52
5	5-G	411	LYS	CA-C	-6.20	1.44	1.52
5	6-G	411	LYS	CA-C	-6.20	1.44	1.52
5	7-G	411	LYS	CA-C	-6.20	1.44	1.52
5	8-G	411	LYS	CA-C	-6.20	1.44	1.52
4	1-R	339	VAL	N-CA	6.20	1.53	1.46
4	2-R	339	VAL	N-CA	6.20	1.53	1.46
4	3-R	339	VAL	N-CA	6.20	1.53	1.46
4	4-R	339	VAL	N-CA	6.20	1.53	1.46
4	5-R	339	VAL	N-CA	6.20	1.53	1.46
4	6-R	339	VAL	N-CA	6.20	1.53	1.46
4	7-R	339	VAL	N-CA	6.20	1.53	1.46
4	8-R	339	VAL	N-CA	6.20	1.53	1.46
4	1-R	328	VAL	N-CA	6.20	1.55	1.46
4	2-R	328	VAL	N-CA	6.20	1.55	1.46
4	3-R	328	VAL	N-CA	6.20	1.55	1.46
4	4-R	328	VAL	N-CA	6.20	1.55	1.46
4	5-R	328	VAL	N-CA	6.20	1.55	1.46
4	6-R	328	VAL	N-CA	6.20	1.55	1.46
4	7-R	328	VAL	N-CA	6.20	1.55	1.46
4	8-R	328	VAL	N-CA	6.20	1.55	1.46
5	1-G	319	LEU	CA-C	-6.19	1.44	1.52
3	1-V	1544	PRO	C-O	6.19	1.31	1.24
5	2-G	319	LEU	CA-C	-6.19	1.44	1.52
3	2-V	1544	PRO	C-O	6.19	1.31	1.24
5	3-G	319	LEU	CA-C	-6.19	1.44	1.52
3	3-V	1544	PRO	C-O	6.19	1.31	1.24
5	4-G	319	LEU	CA-C	-6.19	1.44	1.52
3	4-V	1544	PRO	C-O	6.19	1.31	1.24
5	5-G	319	LEU	CA-C	-6.19	1.44	1.52
3	5-V	1544	PRO	C-O	6.19	1.31	1.24
5	6-G	319	LEU	CA-C	-6.19	1.44	1.52
3	6-V	1544	PRO	C-O	6.19	1.31	1.24
5	7-G	319	LEU	CA-C	-6.19	1.44	1.52
3	7-V	1544	PRO	C-O	6.19	1.31	1.24
5	8-G	319	LEU	CA-C	-6.19	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-V	1544	PRO	C-O	6.19	1.31	1.24
4	1-R	396	GLN	N-CA	6.19	1.53	1.46
4	2-R	396	GLN	N-CA	6.19	1.53	1.46
4	3-R	396	GLN	N-CA	6.19	1.53	1.46
4	4-R	396	GLN	N-CA	6.19	1.53	1.46
4	5-R	396	GLN	N-CA	6.19	1.53	1.46
4	6-R	396	GLN	N-CA	6.19	1.53	1.46
4	7-R	396	GLN	N-CA	6.19	1.53	1.46
4	8-R	396	GLN	N-CA	6.19	1.53	1.46
5	1-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	1-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	2-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	2-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	3-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	3-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	4-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	4-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	5-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	5-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	6-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	6-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	7-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	7-G	340	ALA	CA-CB	-6.19	1.44	1.52
5	8-G	264	GLU	CA-CB	-6.19	1.43	1.53
5	8-G	340	ALA	CA-CB	-6.19	1.44	1.52
4	1-L	328	VAL	N-CA	6.18	1.55	1.46
4	2-L	328	VAL	N-CA	6.18	1.55	1.46
4	3-L	328	VAL	N-CA	6.18	1.55	1.46
4	4-L	328	VAL	N-CA	6.18	1.55	1.46
4	5-L	328	VAL	N-CA	6.18	1.55	1.46
4	6-L	328	VAL	N-CA	6.18	1.55	1.46
4	7-L	328	VAL	N-CA	6.18	1.55	1.46
4	8-L	328	VAL	N-CA	6.18	1.55	1.46
3	1-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	1-L	396	GLN	N-CA	6.17	1.53	1.46
5	1-M	411	LYS	CA-C	-6.17	1.44	1.52
3	2-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	2-L	396	GLN	N-CA	6.17	1.53	1.46
5	2-M	411	LYS	CA-C	-6.17	1.44	1.52
3	3-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	3-L	396	GLN	N-CA	6.17	1.53	1.46
5	3-M	411	LYS	CA-C	-6.17	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	4-L	396	GLN	N-CA	6.17	1.53	1.46
5	4-M	411	LYS	CA-C	-6.17	1.44	1.52
3	5-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	5-L	396	GLN	N-CA	6.17	1.53	1.46
5	5-M	411	LYS	CA-C	-6.17	1.44	1.52
3	6-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	6-L	396	GLN	N-CA	6.17	1.53	1.46
5	6-M	411	LYS	CA-C	-6.17	1.44	1.52
3	7-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	7-L	396	GLN	N-CA	6.17	1.53	1.46
5	7-M	411	LYS	CA-C	-6.17	1.44	1.52
3	8-J	1499	LEU	CA-C	-6.17	1.44	1.52
4	8-L	396	GLN	N-CA	6.17	1.53	1.46
5	8-M	411	LYS	CA-C	-6.17	1.44	1.52
5	1-S	411	LYS	CA-C	-6.17	1.44	1.52
5	2-S	411	LYS	CA-C	-6.17	1.44	1.52
5	3-S	411	LYS	CA-C	-6.17	1.44	1.52
5	4-S	411	LYS	CA-C	-6.17	1.44	1.52
5	5-S	411	LYS	CA-C	-6.17	1.44	1.52
5	6-S	411	LYS	CA-C	-6.17	1.44	1.52
5	7-S	411	LYS	CA-C	-6.17	1.44	1.52
5	8-S	411	LYS	CA-C	-6.17	1.44	1.52
4	1-F	411	ARG	N-CA	-6.17	1.38	1.46
3	1-J	1544	PRO	C-O	6.17	1.31	1.24
4	1-X	328	VAL	N-CA	6.17	1.55	1.46
4	2-F	411	ARG	N-CA	-6.17	1.38	1.46
3	2-J	1544	PRO	C-O	6.17	1.31	1.24
4	2-X	328	VAL	N-CA	6.17	1.55	1.46
4	3-F	411	ARG	N-CA	-6.17	1.38	1.46
3	3-J	1544	PRO	C-O	6.17	1.31	1.24
4	3-X	328	VAL	N-CA	6.17	1.55	1.46
4	4-F	411	ARG	N-CA	-6.17	1.38	1.46
3	4-J	1544	PRO	C-O	6.17	1.31	1.24
4	4-X	328	VAL	N-CA	6.17	1.55	1.46
4	5-F	411	ARG	N-CA	-6.17	1.38	1.46
3	5-J	1544	PRO	C-O	6.17	1.31	1.24
4	5-X	328	VAL	N-CA	6.17	1.55	1.46
4	6-F	411	ARG	N-CA	-6.17	1.38	1.46
3	6-J	1544	PRO	C-O	6.17	1.31	1.24
4	6-X	328	VAL	N-CA	6.17	1.55	1.46
4	7-F	411	ARG	N-CA	-6.17	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-J	1544	PRO	C-O	6.17	1.31	1.24
4	7-X	328	VAL	N-CA	6.17	1.55	1.46
4	8-F	411	ARG	N-CA	-6.17	1.38	1.46
3	8-J	1544	PRO	C-O	6.17	1.31	1.24
4	8-X	328	VAL	N-CA	6.17	1.55	1.46
4	1-X	430	ARG	CA-C	-6.17	1.45	1.52
4	2-X	430	ARG	CA-C	-6.17	1.45	1.52
4	3-X	430	ARG	CA-C	-6.17	1.45	1.52
4	4-X	430	ARG	CA-C	-6.17	1.45	1.52
4	5-X	430	ARG	CA-C	-6.17	1.45	1.52
4	6-X	430	ARG	CA-C	-6.17	1.45	1.52
4	7-X	430	ARG	CA-C	-6.17	1.45	1.52
4	8-X	430	ARG	CA-C	-6.17	1.45	1.52
5	1-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	2-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	3-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	4-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	5-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	6-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	7-M	264	GLU	CA-CB	-6.16	1.43	1.53
5	8-M	264	GLU	CA-CB	-6.16	1.43	1.53
6	1-H	413	LEU	CA-C	-6.16	1.45	1.52
5	1-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	2-H	413	LEU	CA-C	-6.16	1.45	1.52
5	2-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	3-H	413	LEU	CA-C	-6.16	1.45	1.52
5	3-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	4-H	413	LEU	CA-C	-6.16	1.45	1.52
5	4-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	5-H	413	LEU	CA-C	-6.16	1.45	1.52
5	5-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	6-H	413	LEU	CA-C	-6.16	1.45	1.52
5	6-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	7-H	413	LEU	CA-C	-6.16	1.45	1.52
5	7-S	264	GLU	CA-CB	-6.16	1.43	1.53
6	8-H	413	LEU	CA-C	-6.16	1.45	1.52
5	8-S	264	GLU	CA-CB	-6.16	1.43	1.53
4	1-R	442	ASN	C-O	6.16	1.31	1.24
4	2-R	442	ASN	C-O	6.16	1.31	1.24
4	3-R	442	ASN	C-O	6.16	1.31	1.24
4	4-R	442	ASN	C-O	6.16	1.31	1.24
4	5-R	442	ASN	C-O	6.16	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-R	442	ASN	C-O	6.16	1.31	1.24
4	7-R	442	ASN	C-O	6.16	1.31	1.24
4	8-R	442	ASN	C-O	6.16	1.31	1.24
6	1-T	413	LEU	CA-C	-6.15	1.45	1.52
6	2-T	413	LEU	CA-C	-6.15	1.45	1.52
6	3-T	413	LEU	CA-C	-6.15	1.45	1.52
6	4-T	413	LEU	CA-C	-6.15	1.45	1.52
6	5-T	413	LEU	CA-C	-6.15	1.45	1.52
6	6-T	413	LEU	CA-C	-6.15	1.45	1.52
6	7-T	413	LEU	CA-C	-6.15	1.45	1.52
6	8-T	413	LEU	CA-C	-6.15	1.45	1.52
4	1-F	331	LYS	CA-CB	6.15	1.64	1.53
4	2-F	331	LYS	CA-CB	6.15	1.64	1.53
4	3-F	331	LYS	CA-CB	6.15	1.64	1.53
4	4-F	331	LYS	CA-CB	6.15	1.64	1.53
4	5-F	331	LYS	CA-CB	6.15	1.64	1.53
4	6-F	331	LYS	CA-CB	6.15	1.64	1.53
4	7-F	331	LYS	CA-CB	6.15	1.64	1.53
4	8-F	331	LYS	CA-CB	6.15	1.64	1.53
3	1-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	2-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	3-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	4-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	5-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	6-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	7-V	1499	LEU	CA-C	-6.15	1.44	1.52
3	8-V	1499	LEU	CA-C	-6.15	1.44	1.52
4	1-L	430	ARG	CA-C	-6.15	1.45	1.52
4	1-X	331	LYS	CA-CB	6.15	1.64	1.53
4	2-L	430	ARG	CA-C	-6.15	1.45	1.52
4	2-X	331	LYS	CA-CB	6.15	1.64	1.53
4	3-L	430	ARG	CA-C	-6.15	1.45	1.52
4	3-X	331	LYS	CA-CB	6.15	1.64	1.53
4	4-L	430	ARG	CA-C	-6.15	1.45	1.52
4	4-X	331	LYS	CA-CB	6.15	1.64	1.53
4	5-L	430	ARG	CA-C	-6.15	1.45	1.52
4	5-X	331	LYS	CA-CB	6.15	1.64	1.53
4	6-L	430	ARG	CA-C	-6.15	1.45	1.52
4	6-X	331	LYS	CA-CB	6.15	1.64	1.53
4	7-L	430	ARG	CA-C	-6.15	1.45	1.52
4	7-X	331	LYS	CA-CB	6.15	1.64	1.53
4	8-L	430	ARG	CA-C	-6.15	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	331	LYS	CA-CB	6.15	1.64	1.53
4	1-F	442	ASN	C-O	6.15	1.31	1.24
4	2-F	442	ASN	C-O	6.15	1.31	1.24
4	3-F	442	ASN	C-O	6.15	1.31	1.24
4	4-F	442	ASN	C-O	6.15	1.31	1.24
4	5-F	442	ASN	C-O	6.15	1.31	1.24
4	6-F	442	ASN	C-O	6.15	1.31	1.24
4	7-F	442	ASN	C-O	6.15	1.31	1.24
4	8-F	442	ASN	C-O	6.15	1.31	1.24
5	1-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	2-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	3-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	4-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	5-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	6-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	7-Y	264	GLU	CA-CB	-6.14	1.43	1.53
5	8-Y	264	GLU	CA-CB	-6.14	1.43	1.53
3	1-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	1-N	413	LEU	CA-C	-6.14	1.45	1.52
3	2-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	2-N	413	LEU	CA-C	-6.14	1.45	1.52
3	3-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	3-N	413	LEU	CA-C	-6.14	1.45	1.52
3	4-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	4-N	413	LEU	CA-C	-6.14	1.45	1.52
3	5-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	5-N	413	LEU	CA-C	-6.14	1.45	1.52
3	6-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	6-N	413	LEU	CA-C	-6.14	1.45	1.52
3	7-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	7-N	413	LEU	CA-C	-6.14	1.45	1.52
3	8-D	1499	LEU	CA-C	-6.14	1.44	1.52
6	8-N	413	LEU	CA-C	-6.14	1.45	1.52
3	1-V	1516	LEU	C-N	6.14	1.41	1.33
3	2-V	1516	LEU	C-N	6.14	1.41	1.33
3	3-V	1516	LEU	C-N	6.14	1.41	1.33
3	4-V	1516	LEU	C-N	6.14	1.41	1.33
3	5-V	1516	LEU	C-N	6.14	1.41	1.33
3	6-V	1516	LEU	C-N	6.14	1.41	1.33
3	7-V	1516	LEU	C-N	6.14	1.41	1.33
3	8-V	1516	LEU	C-N	6.14	1.41	1.33
6	1-Z	413	LEU	CA-C	-6.13	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-Z	413	LEU	CA-C	-6.13	1.45	1.52
6	3-Z	413	LEU	CA-C	-6.13	1.45	1.52
6	4-Z	413	LEU	CA-C	-6.13	1.45	1.52
6	5-Z	413	LEU	CA-C	-6.13	1.45	1.52
6	6-Z	413	LEU	CA-C	-6.13	1.45	1.52
6	7-Z	413	LEU	CA-C	-6.13	1.45	1.52
6	8-Z	413	LEU	CA-C	-6.13	1.45	1.52
4	1-R	331	LYS	CA-CB	6.13	1.64	1.53
4	2-R	331	LYS	CA-CB	6.13	1.64	1.53
4	3-R	331	LYS	CA-CB	6.13	1.64	1.53
4	4-R	331	LYS	CA-CB	6.13	1.64	1.53
4	5-R	331	LYS	CA-CB	6.13	1.64	1.53
4	6-R	331	LYS	CA-CB	6.13	1.64	1.53
4	7-R	331	LYS	CA-CB	6.13	1.64	1.53
4	8-R	331	LYS	CA-CB	6.13	1.64	1.53
6	1-H	498	LYS	N-CA	6.13	1.53	1.46
6	2-H	498	LYS	N-CA	6.13	1.53	1.46
6	3-H	498	LYS	N-CA	6.13	1.53	1.46
6	4-H	498	LYS	N-CA	6.13	1.53	1.46
6	5-H	498	LYS	N-CA	6.13	1.53	1.46
6	6-H	498	LYS	N-CA	6.13	1.53	1.46
6	7-H	498	LYS	N-CA	6.13	1.53	1.46
6	8-H	498	LYS	N-CA	6.13	1.53	1.46
6	1-Z	498	LYS	N-CA	6.12	1.53	1.46
6	2-Z	498	LYS	N-CA	6.12	1.53	1.46
6	3-Z	498	LYS	N-CA	6.12	1.53	1.46
6	4-Z	498	LYS	N-CA	6.12	1.53	1.46
6	5-Z	498	LYS	N-CA	6.12	1.53	1.46
6	6-Z	498	LYS	N-CA	6.12	1.53	1.46
6	7-Z	498	LYS	N-CA	6.12	1.53	1.46
6	8-Z	498	LYS	N-CA	6.12	1.53	1.46
4	1-L	442	ASN	CA-C	6.11	1.60	1.52
4	2-L	442	ASN	CA-C	6.11	1.60	1.52
4	3-L	442	ASN	CA-C	6.11	1.60	1.52
4	4-L	442	ASN	CA-C	6.11	1.60	1.52
4	5-L	442	ASN	CA-C	6.11	1.60	1.52
4	6-L	442	ASN	CA-C	6.11	1.60	1.52
4	7-L	442	ASN	CA-C	6.11	1.60	1.52
4	8-L	442	ASN	CA-C	6.11	1.60	1.52
4	1-L	331	LYS	CA-CB	6.11	1.64	1.53
4	1-L	339	VAL	N-CA	6.11	1.53	1.46
4	2-L	331	LYS	CA-CB	6.11	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	339	VAL	N-CA	6.11	1.53	1.46
4	3-L	331	LYS	CA-CB	6.11	1.64	1.53
4	3-L	339	VAL	N-CA	6.11	1.53	1.46
4	4-L	331	LYS	CA-CB	6.11	1.64	1.53
4	4-L	339	VAL	N-CA	6.11	1.53	1.46
4	5-L	331	LYS	CA-CB	6.11	1.64	1.53
4	5-L	339	VAL	N-CA	6.11	1.53	1.46
4	6-L	331	LYS	CA-CB	6.11	1.64	1.53
4	6-L	339	VAL	N-CA	6.11	1.53	1.46
4	7-L	331	LYS	CA-CB	6.11	1.64	1.53
4	7-L	339	VAL	N-CA	6.11	1.53	1.46
4	8-L	331	LYS	CA-CB	6.11	1.64	1.53
4	8-L	339	VAL	N-CA	6.11	1.53	1.46
4	1-X	448	ARG	CA-C	6.11	1.61	1.52
4	2-X	448	ARG	CA-C	6.11	1.61	1.52
4	3-X	448	ARG	CA-C	6.11	1.61	1.52
4	4-X	448	ARG	CA-C	6.11	1.61	1.52
4	5-X	448	ARG	CA-C	6.11	1.61	1.52
4	6-X	448	ARG	CA-C	6.11	1.61	1.52
4	7-X	448	ARG	CA-C	6.11	1.61	1.52
4	8-X	448	ARG	CA-C	6.11	1.61	1.52
4	1-R	448	ARG	CA-C	6.11	1.61	1.52
4	2-R	448	ARG	CA-C	6.11	1.61	1.52
4	3-R	448	ARG	CA-C	6.11	1.61	1.52
4	4-R	448	ARG	CA-C	6.11	1.61	1.52
4	5-R	448	ARG	CA-C	6.11	1.61	1.52
4	6-R	448	ARG	CA-C	6.11	1.61	1.52
4	7-R	448	ARG	CA-C	6.11	1.61	1.52
4	8-R	448	ARG	CA-C	6.11	1.61	1.52
6	1-T	498	LYS	N-CA	6.10	1.53	1.46
6	2-T	498	LYS	N-CA	6.10	1.53	1.46
6	3-T	498	LYS	N-CA	6.10	1.53	1.46
6	4-T	498	LYS	N-CA	6.10	1.53	1.46
6	5-T	498	LYS	N-CA	6.10	1.53	1.46
6	6-T	498	LYS	N-CA	6.10	1.53	1.46
6	7-T	498	LYS	N-CA	6.10	1.53	1.46
6	8-T	498	LYS	N-CA	6.10	1.53	1.46
5	1-M	360	TYR	CA-C	-6.10	1.45	1.52
5	2-M	360	TYR	CA-C	-6.10	1.45	1.52
5	3-M	360	TYR	CA-C	-6.10	1.45	1.52
5	4-M	360	TYR	CA-C	-6.10	1.45	1.52
5	5-M	360	TYR	CA-C	-6.10	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	360	TYR	CA-C	-6.10	1.45	1.52
5	7-M	360	TYR	CA-C	-6.10	1.45	1.52
5	8-M	360	TYR	CA-C	-6.10	1.45	1.52
4	1-F	448	ARG	CA-C	6.10	1.61	1.52
4	2-F	448	ARG	CA-C	6.10	1.61	1.52
4	3-F	448	ARG	CA-C	6.10	1.61	1.52
4	4-F	448	ARG	CA-C	6.10	1.61	1.52
4	5-F	448	ARG	CA-C	6.10	1.61	1.52
4	6-F	448	ARG	CA-C	6.10	1.61	1.52
4	7-F	448	ARG	CA-C	6.10	1.61	1.52
4	8-F	448	ARG	CA-C	6.10	1.61	1.52
4	1-X	442	ASN	C-O	6.10	1.31	1.24
4	2-X	442	ASN	C-O	6.10	1.31	1.24
4	3-X	442	ASN	C-O	6.10	1.31	1.24
4	4-X	442	ASN	C-O	6.10	1.31	1.24
4	5-X	442	ASN	C-O	6.10	1.31	1.24
4	6-X	442	ASN	C-O	6.10	1.31	1.24
4	7-X	442	ASN	C-O	6.10	1.31	1.24
4	8-X	442	ASN	C-O	6.10	1.31	1.24
3	1-D	1536	LEU	CA-C	6.09	1.60	1.52
3	2-D	1536	LEU	CA-C	6.09	1.60	1.52
3	3-D	1536	LEU	CA-C	6.09	1.60	1.52
3	4-D	1536	LEU	CA-C	6.09	1.60	1.52
3	5-D	1536	LEU	CA-C	6.09	1.60	1.52
3	6-D	1536	LEU	CA-C	6.09	1.60	1.52
3	7-D	1536	LEU	CA-C	6.09	1.60	1.52
3	8-D	1536	LEU	CA-C	6.09	1.60	1.52
6	1-Z	447	MET	N-CA	6.09	1.53	1.46
6	2-Z	447	MET	N-CA	6.09	1.53	1.46
6	3-Z	447	MET	N-CA	6.09	1.53	1.46
6	4-Z	447	MET	N-CA	6.09	1.53	1.46
6	5-Z	447	MET	N-CA	6.09	1.53	1.46
6	6-Z	447	MET	N-CA	6.09	1.53	1.46
6	7-Z	447	MET	N-CA	6.09	1.53	1.46
6	8-Z	447	MET	N-CA	6.09	1.53	1.46
5	1-Y	369	ASN	N-CA	6.09	1.54	1.46
5	2-Y	369	ASN	N-CA	6.09	1.54	1.46
5	3-Y	369	ASN	N-CA	6.09	1.54	1.46
5	4-Y	369	ASN	N-CA	6.09	1.54	1.46
5	5-Y	369	ASN	N-CA	6.09	1.54	1.46
5	6-Y	369	ASN	N-CA	6.09	1.54	1.46
5	7-Y	369	ASN	N-CA	6.09	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-Y	369	ASN	N-CA	6.09	1.54	1.46
3	1-V	1536	LEU	CA-C	6.08	1.60	1.52
3	2-V	1536	LEU	CA-C	6.08	1.60	1.52
3	3-V	1536	LEU	CA-C	6.08	1.60	1.52
3	4-V	1536	LEU	CA-C	6.08	1.60	1.52
3	5-V	1536	LEU	CA-C	6.08	1.60	1.52
3	6-V	1536	LEU	CA-C	6.08	1.60	1.52
3	7-V	1536	LEU	CA-C	6.08	1.60	1.52
3	8-V	1536	LEU	CA-C	6.08	1.60	1.52
5	1-G	369	ASN	N-CA	6.08	1.54	1.46
5	2-G	369	ASN	N-CA	6.08	1.54	1.46
5	3-G	369	ASN	N-CA	6.08	1.54	1.46
5	4-G	369	ASN	N-CA	6.08	1.54	1.46
5	5-G	369	ASN	N-CA	6.08	1.54	1.46
5	6-G	369	ASN	N-CA	6.08	1.54	1.46
5	7-G	369	ASN	N-CA	6.08	1.54	1.46
5	8-G	369	ASN	N-CA	6.08	1.54	1.46
5	1-M	369	ASN	N-CA	6.08	1.54	1.46
3	1-P	1536	LEU	CA-C	6.08	1.60	1.52
5	2-M	369	ASN	N-CA	6.08	1.54	1.46
3	2-P	1536	LEU	CA-C	6.08	1.60	1.52
5	3-M	369	ASN	N-CA	6.08	1.54	1.46
3	3-P	1536	LEU	CA-C	6.08	1.60	1.52
5	4-M	369	ASN	N-CA	6.08	1.54	1.46
3	4-P	1536	LEU	CA-C	6.08	1.60	1.52
5	5-M	369	ASN	N-CA	6.08	1.54	1.46
3	5-P	1536	LEU	CA-C	6.08	1.60	1.52
5	6-M	369	ASN	N-CA	6.08	1.54	1.46
3	6-P	1536	LEU	CA-C	6.08	1.60	1.52
5	7-M	369	ASN	N-CA	6.08	1.54	1.46
3	7-P	1536	LEU	CA-C	6.08	1.60	1.52
5	8-M	369	ASN	N-CA	6.08	1.54	1.46
3	8-P	1536	LEU	CA-C	6.08	1.60	1.52
4	1-L	448	ARG	CA-C	6.08	1.61	1.52
4	2-L	448	ARG	CA-C	6.08	1.61	1.52
4	3-L	448	ARG	CA-C	6.08	1.61	1.52
4	4-L	448	ARG	CA-C	6.08	1.61	1.52
4	5-L	448	ARG	CA-C	6.08	1.61	1.52
4	6-L	448	ARG	CA-C	6.08	1.61	1.52
4	7-L	448	ARG	CA-C	6.08	1.61	1.52
4	8-L	448	ARG	CA-C	6.08	1.61	1.52
5	1-G	360	TYR	CA-C	-6.08	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-L	335	ARG	N-CA	6.08	1.53	1.46
4	1-X	335	ARG	N-CA	6.08	1.53	1.46
5	2-G	360	TYR	CA-C	-6.08	1.45	1.52
4	2-L	335	ARG	N-CA	6.08	1.53	1.46
4	2-X	335	ARG	N-CA	6.08	1.53	1.46
5	3-G	360	TYR	CA-C	-6.08	1.45	1.52
4	3-L	335	ARG	N-CA	6.08	1.53	1.46
4	3-X	335	ARG	N-CA	6.08	1.53	1.46
5	4-G	360	TYR	CA-C	-6.08	1.45	1.52
4	4-L	335	ARG	N-CA	6.08	1.53	1.46
4	4-X	335	ARG	N-CA	6.08	1.53	1.46
5	5-G	360	TYR	CA-C	-6.08	1.45	1.52
4	5-L	335	ARG	N-CA	6.08	1.53	1.46
4	5-X	335	ARG	N-CA	6.08	1.53	1.46
5	6-G	360	TYR	CA-C	-6.08	1.45	1.52
4	6-L	335	ARG	N-CA	6.08	1.53	1.46
4	6-X	335	ARG	N-CA	6.08	1.53	1.46
5	7-G	360	TYR	CA-C	-6.08	1.45	1.52
4	7-L	335	ARG	N-CA	6.08	1.53	1.46
4	7-X	335	ARG	N-CA	6.08	1.53	1.46
5	8-G	360	TYR	CA-C	-6.08	1.45	1.52
4	8-L	335	ARG	N-CA	6.08	1.53	1.46
4	8-X	335	ARG	N-CA	6.08	1.53	1.46
3	1-J	1536	LEU	CA-C	6.07	1.60	1.52
5	1-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	2-J	1536	LEU	CA-C	6.07	1.60	1.52
5	2-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	3-J	1536	LEU	CA-C	6.07	1.60	1.52
5	3-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	4-J	1536	LEU	CA-C	6.07	1.60	1.52
5	4-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	5-J	1536	LEU	CA-C	6.07	1.60	1.52
5	5-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	6-J	1536	LEU	CA-C	6.07	1.60	1.52
5	6-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	7-J	1536	LEU	CA-C	6.07	1.60	1.52
5	7-Y	360	TYR	CA-C	-6.07	1.45	1.52
3	8-J	1536	LEU	CA-C	6.07	1.60	1.52
5	8-Y	360	TYR	CA-C	-6.07	1.45	1.52
4	1-X	291	ALA	CA-C	-6.07	1.44	1.52
4	2-X	291	ALA	CA-C	-6.07	1.44	1.52
4	3-X	291	ALA	CA-C	-6.07	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	291	ALA	CA-C	-6.07	1.44	1.52
4	5-X	291	ALA	CA-C	-6.07	1.44	1.52
4	6-X	291	ALA	CA-C	-6.07	1.44	1.52
4	7-X	291	ALA	CA-C	-6.07	1.44	1.52
4	8-X	291	ALA	CA-C	-6.07	1.44	1.52
5	1-S	360	TYR	CA-C	-6.07	1.45	1.52
5	2-S	360	TYR	CA-C	-6.07	1.45	1.52
5	3-S	360	TYR	CA-C	-6.07	1.45	1.52
5	4-S	360	TYR	CA-C	-6.07	1.45	1.52
5	5-S	360	TYR	CA-C	-6.07	1.45	1.52
5	6-S	360	TYR	CA-C	-6.07	1.45	1.52
5	7-S	360	TYR	CA-C	-6.07	1.45	1.52
5	8-S	360	TYR	CA-C	-6.07	1.45	1.52
5	1-S	401	ALA	N-CA	-6.06	1.39	1.46
5	2-S	401	ALA	N-CA	-6.06	1.39	1.46
5	3-S	401	ALA	N-CA	-6.06	1.39	1.46
5	4-S	401	ALA	N-CA	-6.06	1.39	1.46
5	5-S	401	ALA	N-CA	-6.06	1.39	1.46
5	6-S	401	ALA	N-CA	-6.06	1.39	1.46
5	7-S	401	ALA	N-CA	-6.06	1.39	1.46
5	8-S	401	ALA	N-CA	-6.06	1.39	1.46
4	1-L	291	ALA	CA-C	-6.06	1.44	1.52
4	2-L	291	ALA	CA-C	-6.06	1.44	1.52
4	3-L	291	ALA	CA-C	-6.06	1.44	1.52
4	4-L	291	ALA	CA-C	-6.06	1.44	1.52
4	5-L	291	ALA	CA-C	-6.06	1.44	1.52
4	6-L	291	ALA	CA-C	-6.06	1.44	1.52
4	7-L	291	ALA	CA-C	-6.06	1.44	1.52
4	8-L	291	ALA	CA-C	-6.06	1.44	1.52
3	1-P	1516	LEU	C-N	6.06	1.41	1.33
3	2-P	1516	LEU	C-N	6.06	1.41	1.33
3	3-P	1516	LEU	C-N	6.06	1.41	1.33
3	4-P	1516	LEU	C-N	6.06	1.41	1.33
3	5-P	1516	LEU	C-N	6.06	1.41	1.33
3	6-P	1516	LEU	C-N	6.06	1.41	1.33
3	7-P	1516	LEU	C-N	6.06	1.41	1.33
3	8-P	1516	LEU	C-N	6.06	1.41	1.33
4	1-F	442	ASN	CA-C	6.06	1.60	1.52
4	2-F	442	ASN	CA-C	6.06	1.60	1.52
4	3-F	442	ASN	CA-C	6.06	1.60	1.52
4	4-F	442	ASN	CA-C	6.06	1.60	1.52
4	5-F	442	ASN	CA-C	6.06	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-F	442	ASN	CA-C	6.06	1.60	1.52
4	7-F	442	ASN	CA-C	6.06	1.60	1.52
4	8-F	442	ASN	CA-C	6.06	1.60	1.52
3	1-D	1516	LEU	C-N	6.05	1.41	1.33
5	1-G	401	ALA	N-CA	-6.05	1.39	1.46
4	1-R	291	ALA	CA-C	-6.05	1.44	1.52
3	2-D	1516	LEU	C-N	6.05	1.41	1.33
5	2-G	401	ALA	N-CA	-6.05	1.39	1.46
4	2-R	291	ALA	CA-C	-6.05	1.44	1.52
3	3-D	1516	LEU	C-N	6.05	1.41	1.33
5	3-G	401	ALA	N-CA	-6.05	1.39	1.46
4	3-R	291	ALA	CA-C	-6.05	1.44	1.52
3	4-D	1516	LEU	C-N	6.05	1.41	1.33
5	4-G	401	ALA	N-CA	-6.05	1.39	1.46
4	4-R	291	ALA	CA-C	-6.05	1.44	1.52
3	5-D	1516	LEU	C-N	6.05	1.41	1.33
5	5-G	401	ALA	N-CA	-6.05	1.39	1.46
4	5-R	291	ALA	CA-C	-6.05	1.44	1.52
3	6-D	1516	LEU	C-N	6.05	1.41	1.33
5	6-G	401	ALA	N-CA	-6.05	1.39	1.46
4	6-R	291	ALA	CA-C	-6.05	1.44	1.52
3	7-D	1516	LEU	C-N	6.05	1.41	1.33
5	7-G	401	ALA	N-CA	-6.05	1.39	1.46
4	7-R	291	ALA	CA-C	-6.05	1.44	1.52
3	8-D	1516	LEU	C-N	6.05	1.41	1.33
5	8-G	401	ALA	N-CA	-6.05	1.39	1.46
4	8-R	291	ALA	CA-C	-6.05	1.44	1.52
4	1-R	335	ARG	N-CA	6.05	1.53	1.46
4	2-R	335	ARG	N-CA	6.05	1.53	1.46
4	3-R	335	ARG	N-CA	6.05	1.53	1.46
4	4-R	335	ARG	N-CA	6.05	1.53	1.46
4	5-R	335	ARG	N-CA	6.05	1.53	1.46
4	6-R	335	ARG	N-CA	6.05	1.53	1.46
4	7-R	335	ARG	N-CA	6.05	1.53	1.46
4	8-R	335	ARG	N-CA	6.05	1.53	1.46
6	1-N	447	MET	N-CA	6.05	1.53	1.46
6	1-T	447	MET	N-CA	6.05	1.53	1.46
6	2-N	447	MET	N-CA	6.05	1.53	1.46
6	2-T	447	MET	N-CA	6.05	1.53	1.46
6	3-N	447	MET	N-CA	6.05	1.53	1.46
6	3-T	447	MET	N-CA	6.05	1.53	1.46
6	4-N	447	MET	N-CA	6.05	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	447	MET	N-CA	6.05	1.53	1.46
6	5-N	447	MET	N-CA	6.05	1.53	1.46
6	5-T	447	MET	N-CA	6.05	1.53	1.46
6	6-N	447	MET	N-CA	6.05	1.53	1.46
6	6-T	447	MET	N-CA	6.05	1.53	1.46
6	7-N	447	MET	N-CA	6.05	1.53	1.46
6	7-T	447	MET	N-CA	6.05	1.53	1.46
6	8-N	447	MET	N-CA	6.05	1.53	1.46
6	8-T	447	MET	N-CA	6.05	1.53	1.46
4	1-F	291	ALA	CA-C	-6.04	1.44	1.52
6	1-H	447	MET	N-CA	6.04	1.53	1.46
4	2-F	291	ALA	CA-C	-6.04	1.44	1.52
6	2-H	447	MET	N-CA	6.04	1.53	1.46
4	3-F	291	ALA	CA-C	-6.04	1.44	1.52
6	3-H	447	MET	N-CA	6.04	1.53	1.46
4	4-F	291	ALA	CA-C	-6.04	1.44	1.52
6	4-H	447	MET	N-CA	6.04	1.53	1.46
4	5-F	291	ALA	CA-C	-6.04	1.44	1.52
6	5-H	447	MET	N-CA	6.04	1.53	1.46
4	6-F	291	ALA	CA-C	-6.04	1.44	1.52
6	6-H	447	MET	N-CA	6.04	1.53	1.46
4	7-F	291	ALA	CA-C	-6.04	1.44	1.52
6	7-H	447	MET	N-CA	6.04	1.53	1.46
4	8-F	291	ALA	CA-C	-6.04	1.44	1.52
6	8-H	447	MET	N-CA	6.04	1.53	1.46
4	1-L	442	ASN	C-O	6.04	1.31	1.24
4	2-L	442	ASN	C-O	6.04	1.31	1.24
4	3-L	442	ASN	C-O	6.04	1.31	1.24
4	4-L	442	ASN	C-O	6.04	1.31	1.24
4	5-L	442	ASN	C-O	6.04	1.31	1.24
4	6-L	442	ASN	C-O	6.04	1.31	1.24
4	7-L	442	ASN	C-O	6.04	1.31	1.24
4	8-L	442	ASN	C-O	6.04	1.31	1.24
6	1-N	498	LYS	N-CA	6.04	1.53	1.46
4	1-X	442	ASN	CA-C	6.04	1.60	1.52
6	2-N	498	LYS	N-CA	6.04	1.53	1.46
4	2-X	442	ASN	CA-C	6.04	1.60	1.52
6	3-N	498	LYS	N-CA	6.04	1.53	1.46
4	3-X	442	ASN	CA-C	6.04	1.60	1.52
6	4-N	498	LYS	N-CA	6.04	1.53	1.46
4	4-X	442	ASN	CA-C	6.04	1.60	1.52
6	5-N	498	LYS	N-CA	6.04	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5-X	442	ASN	CA-C	6.04	1.60	1.52
6	6-N	498	LYS	N-CA	6.04	1.53	1.46
4	6-X	442	ASN	CA-C	6.04	1.60	1.52
6	7-N	498	LYS	N-CA	6.04	1.53	1.46
4	7-X	442	ASN	CA-C	6.04	1.60	1.52
6	8-N	498	LYS	N-CA	6.04	1.53	1.46
4	8-X	442	ASN	CA-C	6.04	1.60	1.52
3	1-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	2-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	3-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	4-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	5-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	6-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	7-V	1509	GLN	CA-C	-6.04	1.45	1.52
3	8-V	1509	GLN	CA-C	-6.04	1.45	1.52
2	1-C	9	LEU	C-N	6.04	1.42	1.34
3	1-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	1-S	369	ASN	N-CA	6.04	1.54	1.46
2	2-C	9	LEU	C-N	6.04	1.42	1.34
3	2-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	2-S	369	ASN	N-CA	6.04	1.54	1.46
2	3-C	9	LEU	C-N	6.04	1.42	1.34
3	3-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	3-S	369	ASN	N-CA	6.04	1.54	1.46
2	4-C	9	LEU	C-N	6.04	1.42	1.34
3	4-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	4-S	369	ASN	N-CA	6.04	1.54	1.46
2	5-C	9	LEU	C-N	6.04	1.42	1.34
3	5-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	5-S	369	ASN	N-CA	6.04	1.54	1.46
2	6-C	9	LEU	C-N	6.04	1.42	1.34
3	6-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	6-S	369	ASN	N-CA	6.04	1.54	1.46
2	7-C	9	LEU	C-N	6.04	1.42	1.34
3	7-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	7-S	369	ASN	N-CA	6.04	1.54	1.46
2	8-C	9	LEU	C-N	6.04	1.42	1.34
3	8-P	1509	GLN	CA-C	-6.04	1.45	1.52
5	8-S	369	ASN	N-CA	6.04	1.54	1.46
3	1-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	1-F	335	ARG	N-CA	6.03	1.53	1.46
5	1-Y	401	ALA	N-CA	-6.03	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	2-F	335	ARG	N-CA	6.03	1.53	1.46
5	2-Y	401	ALA	N-CA	-6.03	1.39	1.46
3	3-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	3-F	335	ARG	N-CA	6.03	1.53	1.46
5	3-Y	401	ALA	N-CA	-6.03	1.39	1.46
3	4-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	4-F	335	ARG	N-CA	6.03	1.53	1.46
5	4-Y	401	ALA	N-CA	-6.03	1.39	1.46
3	5-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	5-F	335	ARG	N-CA	6.03	1.53	1.46
5	5-Y	401	ALA	N-CA	-6.03	1.39	1.46
3	6-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	6-F	335	ARG	N-CA	6.03	1.53	1.46
5	6-Y	401	ALA	N-CA	-6.03	1.39	1.46
3	7-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	7-F	335	ARG	N-CA	6.03	1.53	1.46
5	7-Y	401	ALA	N-CA	-6.03	1.39	1.46
3	8-D	1509	GLN	CA-C	-6.03	1.45	1.52
4	8-F	335	ARG	N-CA	6.03	1.53	1.46
5	8-Y	401	ALA	N-CA	-6.03	1.39	1.46
4	1-F	492	GLU	N-CA	6.03	1.53	1.46
4	2-F	492	GLU	N-CA	6.03	1.53	1.46
4	3-F	492	GLU	N-CA	6.03	1.53	1.46
4	4-F	492	GLU	N-CA	6.03	1.53	1.46
4	5-F	492	GLU	N-CA	6.03	1.53	1.46
4	6-F	492	GLU	N-CA	6.03	1.53	1.46
4	7-F	492	GLU	N-CA	6.03	1.53	1.46
4	8-F	492	GLU	N-CA	6.03	1.53	1.46
4	1-R	442	ASN	CA-C	6.02	1.60	1.52
4	2-R	442	ASN	CA-C	6.02	1.60	1.52
4	3-R	442	ASN	CA-C	6.02	1.60	1.52
4	4-R	442	ASN	CA-C	6.02	1.60	1.52
4	5-R	442	ASN	CA-C	6.02	1.60	1.52
4	6-R	442	ASN	CA-C	6.02	1.60	1.52
4	7-R	442	ASN	CA-C	6.02	1.60	1.52
4	8-R	442	ASN	CA-C	6.02	1.60	1.52
3	1-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	2-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	3-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	4-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	5-J	1509	GLN	CA-C	-6.01	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	7-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	8-J	1509	GLN	CA-C	-6.01	1.45	1.52
3	1-J	1516	LEU	C-N	6.01	1.41	1.33
2	1-U	6	PHE	C-O	-6.01	1.16	1.24
3	2-J	1516	LEU	C-N	6.01	1.41	1.33
2	2-U	6	PHE	C-O	-6.01	1.16	1.24
3	3-J	1516	LEU	C-N	6.01	1.41	1.33
2	3-U	6	PHE	C-O	-6.01	1.16	1.24
3	4-J	1516	LEU	C-N	6.01	1.41	1.33
2	4-U	6	PHE	C-O	-6.01	1.16	1.24
3	5-J	1516	LEU	C-N	6.01	1.41	1.33
2	5-U	6	PHE	C-O	-6.01	1.16	1.24
3	6-J	1516	LEU	C-N	6.01	1.41	1.33
2	6-U	6	PHE	C-O	-6.01	1.16	1.24
3	7-J	1516	LEU	C-N	6.01	1.41	1.33
2	7-U	6	PHE	C-O	-6.01	1.16	1.24
3	8-J	1516	LEU	C-N	6.01	1.41	1.33
2	8-U	6	PHE	C-O	-6.01	1.16	1.24
5	1-M	401	ALA	N-CA	-6.01	1.39	1.46
5	2-M	401	ALA	N-CA	-6.01	1.39	1.46
5	3-M	401	ALA	N-CA	-6.01	1.39	1.46
5	4-M	401	ALA	N-CA	-6.01	1.39	1.46
5	5-M	401	ALA	N-CA	-6.01	1.39	1.46
5	6-M	401	ALA	N-CA	-6.01	1.39	1.46
5	7-M	401	ALA	N-CA	-6.01	1.39	1.46
5	8-M	401	ALA	N-CA	-6.01	1.39	1.46
3	1-D	1489	HIS	C-O	-6.01	1.16	1.23
6	1-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	2-D	1489	HIS	C-O	-6.01	1.16	1.23
6	2-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	3-D	1489	HIS	C-O	-6.01	1.16	1.23
6	3-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	4-D	1489	HIS	C-O	-6.01	1.16	1.23
6	4-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	5-D	1489	HIS	C-O	-6.01	1.16	1.23
6	5-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	6-D	1489	HIS	C-O	-6.01	1.16	1.23
6	6-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	7-D	1489	HIS	C-O	-6.01	1.16	1.23
6	7-N	384	LEU	CA-CB	-6.01	1.44	1.53
3	8-D	1489	HIS	C-O	-6.01	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-N	384	LEU	CA-CB	-6.01	1.44	1.53
6	1-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	2-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	3-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	4-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	5-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	6-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	7-H	384	LEU	CA-CB	-6.00	1.44	1.53
6	8-H	384	LEU	CA-CB	-6.00	1.44	1.53
3	1-P	1489	HIS	C-O	-6.00	1.16	1.23
4	1-X	492	GLU	N-CA	6.00	1.53	1.46
3	2-P	1489	HIS	C-O	-6.00	1.16	1.23
4	2-X	492	GLU	N-CA	6.00	1.53	1.46
3	3-P	1489	HIS	C-O	-6.00	1.16	1.23
4	3-X	492	GLU	N-CA	6.00	1.53	1.46
3	4-P	1489	HIS	C-O	-6.00	1.16	1.23
4	4-X	492	GLU	N-CA	6.00	1.53	1.46
3	5-P	1489	HIS	C-O	-6.00	1.16	1.23
4	5-X	492	GLU	N-CA	6.00	1.53	1.46
3	6-P	1489	HIS	C-O	-6.00	1.16	1.23
4	6-X	492	GLU	N-CA	6.00	1.53	1.46
3	7-P	1489	HIS	C-O	-6.00	1.16	1.23
4	7-X	492	GLU	N-CA	6.00	1.53	1.46
3	8-P	1489	HIS	C-O	-6.00	1.16	1.23
4	8-X	492	GLU	N-CA	6.00	1.53	1.46
6	1-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	2-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	3-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	4-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	5-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	6-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	7-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	8-Z	384	LEU	CA-CB	-6.00	1.44	1.53
6	1-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	2-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	3-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	4-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	5-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	6-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	7-T	384	LEU	CA-CB	-6.00	1.44	1.53
6	8-T	384	LEU	CA-CB	-6.00	1.44	1.53
3	1-J	1489	HIS	C-O	-5.99	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-J	1489	HIS	C-O	-5.99	1.16	1.23
3	3-J	1489	HIS	C-O	-5.99	1.16	1.23
3	4-J	1489	HIS	C-O	-5.99	1.16	1.23
3	5-J	1489	HIS	C-O	-5.99	1.16	1.23
3	6-J	1489	HIS	C-O	-5.99	1.16	1.23
3	7-J	1489	HIS	C-O	-5.99	1.16	1.23
3	8-J	1489	HIS	C-O	-5.99	1.16	1.23
2	1-U	9	LEU	C-N	5.99	1.42	1.34
2	2-U	9	LEU	C-N	5.99	1.42	1.34
2	3-U	9	LEU	C-N	5.99	1.42	1.34
2	4-U	9	LEU	C-N	5.99	1.42	1.34
2	5-U	9	LEU	C-N	5.99	1.42	1.34
2	6-U	9	LEU	C-N	5.99	1.42	1.34
2	7-U	9	LEU	C-N	5.99	1.42	1.34
2	8-U	9	LEU	C-N	5.99	1.42	1.34
3	1-J	1540	LEU	CA-C	5.99	1.60	1.52
3	2-J	1540	LEU	CA-C	5.99	1.60	1.52
3	3-J	1540	LEU	CA-C	5.99	1.60	1.52
3	4-J	1540	LEU	CA-C	5.99	1.60	1.52
3	5-J	1540	LEU	CA-C	5.99	1.60	1.52
3	6-J	1540	LEU	CA-C	5.99	1.60	1.52
3	7-J	1540	LEU	CA-C	5.99	1.60	1.52
3	8-J	1540	LEU	CA-C	5.99	1.60	1.52
4	1-R	432	ASN	CA-C	5.98	1.61	1.52
4	2-R	432	ASN	CA-C	5.98	1.61	1.52
4	3-R	432	ASN	CA-C	5.98	1.61	1.52
4	4-R	432	ASN	CA-C	5.98	1.61	1.52
4	5-R	432	ASN	CA-C	5.98	1.61	1.52
4	6-R	432	ASN	CA-C	5.98	1.61	1.52
4	7-R	432	ASN	CA-C	5.98	1.61	1.52
4	8-R	432	ASN	CA-C	5.98	1.61	1.52
3	1-V	1489	HIS	C-O	-5.98	1.17	1.23
3	2-V	1489	HIS	C-O	-5.98	1.17	1.23
3	3-V	1489	HIS	C-O	-5.98	1.17	1.23
3	4-V	1489	HIS	C-O	-5.98	1.17	1.23
3	5-V	1489	HIS	C-O	-5.98	1.17	1.23
3	6-V	1489	HIS	C-O	-5.98	1.17	1.23
3	7-V	1489	HIS	C-O	-5.98	1.17	1.23
3	8-V	1489	HIS	C-O	-5.98	1.17	1.23
2	1-I	6	PHE	C-O	-5.98	1.16	1.24
2	2-I	6	PHE	C-O	-5.98	1.16	1.24
2	3-I	6	PHE	C-O	-5.98	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	4-I	6	PHE	C-O	-5.98	1.16	1.24
2	5-I	6	PHE	C-O	-5.98	1.16	1.24
2	6-I	6	PHE	C-O	-5.98	1.16	1.24
2	7-I	6	PHE	C-O	-5.98	1.16	1.24
2	8-I	6	PHE	C-O	-5.98	1.16	1.24
3	1-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	2-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	3-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	4-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	5-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	6-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	7-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	8-P	1531	GLU	N-CA	-5.98	1.38	1.46
3	1-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	2-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	3-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	4-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	5-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	6-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	7-D	1531	GLU	N-CA	-5.97	1.38	1.46
3	8-D	1531	GLU	N-CA	-5.97	1.38	1.46
2	1-I	9	LEU	C-N	5.97	1.42	1.34
2	2-I	9	LEU	C-N	5.97	1.42	1.34
2	3-I	9	LEU	C-N	5.97	1.42	1.34
2	4-I	9	LEU	C-N	5.97	1.42	1.34
2	5-I	9	LEU	C-N	5.97	1.42	1.34
2	6-I	9	LEU	C-N	5.97	1.42	1.34
2	7-I	9	LEU	C-N	5.97	1.42	1.34
2	8-I	9	LEU	C-N	5.97	1.42	1.34
4	1-L	492	GLU	N-CA	5.97	1.53	1.46
3	1-V	1540	LEU	CA-C	5.97	1.60	1.52
4	2-L	492	GLU	N-CA	5.97	1.53	1.46
3	2-V	1540	LEU	CA-C	5.97	1.60	1.52
4	3-L	492	GLU	N-CA	5.97	1.53	1.46
3	3-V	1540	LEU	CA-C	5.97	1.60	1.52
4	4-L	492	GLU	N-CA	5.97	1.53	1.46
3	4-V	1540	LEU	CA-C	5.97	1.60	1.52
4	5-L	492	GLU	N-CA	5.97	1.53	1.46
3	5-V	1540	LEU	CA-C	5.97	1.60	1.52
4	6-L	492	GLU	N-CA	5.97	1.53	1.46
3	6-V	1540	LEU	CA-C	5.97	1.60	1.52
4	7-L	492	GLU	N-CA	5.97	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	7-V	1540	LEU	CA-C	5.97	1.60	1.52
4	8-L	492	GLU	N-CA	5.97	1.53	1.46
3	8-V	1540	LEU	CA-C	5.97	1.60	1.52
2	1-O	6	PHE	C-O	-5.97	1.16	1.24
2	2-O	6	PHE	C-O	-5.97	1.16	1.24
2	3-O	6	PHE	C-O	-5.97	1.16	1.24
2	4-O	6	PHE	C-O	-5.97	1.16	1.24
2	5-O	6	PHE	C-O	-5.97	1.16	1.24
2	6-O	6	PHE	C-O	-5.97	1.16	1.24
2	7-O	6	PHE	C-O	-5.97	1.16	1.24
2	8-O	6	PHE	C-O	-5.97	1.16	1.24
3	1-D	1540	LEU	CA-C	5.96	1.60	1.52
3	2-D	1540	LEU	CA-C	5.96	1.60	1.52
3	3-D	1540	LEU	CA-C	5.96	1.60	1.52
3	4-D	1540	LEU	CA-C	5.96	1.60	1.52
3	5-D	1540	LEU	CA-C	5.96	1.60	1.52
3	6-D	1540	LEU	CA-C	5.96	1.60	1.52
3	7-D	1540	LEU	CA-C	5.96	1.60	1.52
3	8-D	1540	LEU	CA-C	5.96	1.60	1.52
6	1-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	2-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	3-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	4-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	5-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	6-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	7-Z	407	LEU	N-CA	-5.96	1.38	1.46
6	8-Z	407	LEU	N-CA	-5.96	1.38	1.46
2	1-C	6	PHE	C-O	-5.96	1.16	1.24
2	2-C	6	PHE	C-O	-5.96	1.16	1.24
2	3-C	6	PHE	C-O	-5.96	1.16	1.24
2	4-C	6	PHE	C-O	-5.96	1.16	1.24
2	5-C	6	PHE	C-O	-5.96	1.16	1.24
2	6-C	6	PHE	C-O	-5.96	1.16	1.24
2	7-C	6	PHE	C-O	-5.96	1.16	1.24
2	8-C	6	PHE	C-O	-5.96	1.16	1.24
2	1-O	9	LEU	C-N	5.95	1.42	1.34
3	1-P	1540	LEU	CA-C	5.95	1.60	1.52
2	2-O	9	LEU	C-N	5.95	1.42	1.34
3	2-P	1540	LEU	CA-C	5.95	1.60	1.52
2	3-O	9	LEU	C-N	5.95	1.42	1.34
3	3-P	1540	LEU	CA-C	5.95	1.60	1.52
2	4-O	9	LEU	C-N	5.95	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-P	1540	LEU	CA-C	5.95	1.60	1.52
2	5-O	9	LEU	C-N	5.95	1.42	1.34
3	5-P	1540	LEU	CA-C	5.95	1.60	1.52
2	6-O	9	LEU	C-N	5.95	1.42	1.34
3	6-P	1540	LEU	CA-C	5.95	1.60	1.52
2	7-O	9	LEU	C-N	5.95	1.42	1.34
3	7-P	1540	LEU	CA-C	5.95	1.60	1.52
2	8-O	9	LEU	C-N	5.95	1.42	1.34
3	8-P	1540	LEU	CA-C	5.95	1.60	1.52
3	1-J	1663	GLN	N-CA	5.95	1.52	1.46
3	2-J	1663	GLN	N-CA	5.95	1.52	1.46
3	3-J	1663	GLN	N-CA	5.95	1.52	1.46
3	4-J	1663	GLN	N-CA	5.95	1.52	1.46
3	5-J	1663	GLN	N-CA	5.95	1.52	1.46
3	6-J	1663	GLN	N-CA	5.95	1.52	1.46
3	7-J	1663	GLN	N-CA	5.95	1.52	1.46
3	8-J	1663	GLN	N-CA	5.95	1.52	1.46
4	1-X	319	SER	C-N	5.94	1.43	1.33
4	2-X	319	SER	C-N	5.94	1.43	1.33
4	3-X	319	SER	C-N	5.94	1.43	1.33
4	4-X	319	SER	C-N	5.94	1.43	1.33
4	5-X	319	SER	C-N	5.94	1.43	1.33
4	6-X	319	SER	C-N	5.94	1.43	1.33
4	7-X	319	SER	C-N	5.94	1.43	1.33
4	8-X	319	SER	C-N	5.94	1.43	1.33
3	1-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	2-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	3-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	4-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	5-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	6-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	7-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	8-V	1531	GLU	N-CA	-5.94	1.38	1.46
3	1-V	1663	GLN	N-CA	5.93	1.52	1.46
3	2-V	1663	GLN	N-CA	5.93	1.52	1.46
3	3-V	1663	GLN	N-CA	5.93	1.52	1.46
3	4-V	1663	GLN	N-CA	5.93	1.52	1.46
3	5-V	1663	GLN	N-CA	5.93	1.52	1.46
3	6-V	1663	GLN	N-CA	5.93	1.52	1.46
3	7-V	1663	GLN	N-CA	5.93	1.52	1.46
3	8-V	1663	GLN	N-CA	5.93	1.52	1.46
3	1-J	1518	ASN	C-O	5.93	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-N	407	LEU	N-CA	-5.93	1.38	1.46
4	1-R	492	GLU	N-CA	5.93	1.53	1.46
3	2-J	1518	ASN	C-O	5.93	1.30	1.24
6	2-N	407	LEU	N-CA	-5.93	1.38	1.46
4	2-R	492	GLU	N-CA	5.93	1.53	1.46
3	3-J	1518	ASN	C-O	5.93	1.30	1.24
6	3-N	407	LEU	N-CA	-5.93	1.38	1.46
4	3-R	492	GLU	N-CA	5.93	1.53	1.46
3	4-J	1518	ASN	C-O	5.93	1.30	1.24
6	4-N	407	LEU	N-CA	-5.93	1.38	1.46
4	4-R	492	GLU	N-CA	5.93	1.53	1.46
3	5-J	1518	ASN	C-O	5.93	1.30	1.24
6	5-N	407	LEU	N-CA	-5.93	1.38	1.46
4	5-R	492	GLU	N-CA	5.93	1.53	1.46
3	6-J	1518	ASN	C-O	5.93	1.30	1.24
6	6-N	407	LEU	N-CA	-5.93	1.38	1.46
4	6-R	492	GLU	N-CA	5.93	1.53	1.46
3	7-J	1518	ASN	C-O	5.93	1.30	1.24
6	7-N	407	LEU	N-CA	-5.93	1.38	1.46
4	7-R	492	GLU	N-CA	5.93	1.53	1.46
3	8-J	1518	ASN	C-O	5.93	1.30	1.24
6	8-N	407	LEU	N-CA	-5.93	1.38	1.46
4	8-R	492	GLU	N-CA	5.93	1.53	1.46
6	1-T	407	LEU	N-CA	-5.92	1.38	1.46
6	2-T	407	LEU	N-CA	-5.92	1.38	1.46
6	3-T	407	LEU	N-CA	-5.92	1.38	1.46
6	4-T	407	LEU	N-CA	-5.92	1.38	1.46
6	5-T	407	LEU	N-CA	-5.92	1.38	1.46
6	6-T	407	LEU	N-CA	-5.92	1.38	1.46
6	7-T	407	LEU	N-CA	-5.92	1.38	1.46
6	8-T	407	LEU	N-CA	-5.92	1.38	1.46
3	1-D	1663	GLN	N-CA	5.92	1.52	1.46
3	2-D	1663	GLN	N-CA	5.92	1.52	1.46
3	3-D	1663	GLN	N-CA	5.92	1.52	1.46
3	4-D	1663	GLN	N-CA	5.92	1.52	1.46
3	5-D	1663	GLN	N-CA	5.92	1.52	1.46
3	6-D	1663	GLN	N-CA	5.92	1.52	1.46
3	7-D	1663	GLN	N-CA	5.92	1.52	1.46
3	8-D	1663	GLN	N-CA	5.92	1.52	1.46
3	1-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	1-L	419	GLY	N-CA	5.92	1.55	1.45
3	2-J	1531	GLU	N-CA	-5.92	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	419	GLY	N-CA	5.92	1.55	1.45
3	3-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	3-L	419	GLY	N-CA	5.92	1.55	1.45
3	4-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	4-L	419	GLY	N-CA	5.92	1.55	1.45
3	5-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	5-L	419	GLY	N-CA	5.92	1.55	1.45
3	6-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	6-L	419	GLY	N-CA	5.92	1.55	1.45
3	7-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	7-L	419	GLY	N-CA	5.92	1.55	1.45
3	8-J	1531	GLU	N-CA	-5.92	1.38	1.46
4	8-L	419	GLY	N-CA	5.92	1.55	1.45
6	1-H	378	GLU	N-CA	-5.92	1.38	1.46
6	2-H	378	GLU	N-CA	-5.92	1.38	1.46
6	3-H	378	GLU	N-CA	-5.92	1.38	1.46
6	4-H	378	GLU	N-CA	-5.92	1.38	1.46
6	5-H	378	GLU	N-CA	-5.92	1.38	1.46
6	6-H	378	GLU	N-CA	-5.92	1.38	1.46
6	7-H	378	GLU	N-CA	-5.92	1.38	1.46
6	8-H	378	GLU	N-CA	-5.92	1.38	1.46
4	1-L	319	SER	C-N	5.92	1.42	1.33
5	1-Y	274	ARG	C-N	5.92	1.42	1.34
4	2-L	319	SER	C-N	5.92	1.42	1.33
5	2-Y	274	ARG	C-N	5.92	1.42	1.34
4	3-L	319	SER	C-N	5.92	1.42	1.33
5	3-Y	274	ARG	C-N	5.92	1.42	1.34
4	4-L	319	SER	C-N	5.92	1.42	1.33
5	4-Y	274	ARG	C-N	5.92	1.42	1.34
4	5-L	319	SER	C-N	5.92	1.42	1.33
5	5-Y	274	ARG	C-N	5.92	1.42	1.34
4	6-L	319	SER	C-N	5.92	1.42	1.33
5	6-Y	274	ARG	C-N	5.92	1.42	1.34
4	7-L	319	SER	C-N	5.92	1.42	1.33
5	7-Y	274	ARG	C-N	5.92	1.42	1.34
4	8-L	319	SER	C-N	5.92	1.42	1.33
5	8-Y	274	ARG	C-N	5.92	1.42	1.34
6	1-N	378	GLU	N-CA	-5.91	1.38	1.46
3	1-P	1663	GLN	N-CA	5.91	1.52	1.46
6	2-N	378	GLU	N-CA	-5.91	1.38	1.46
3	2-P	1663	GLN	N-CA	5.91	1.52	1.46
6	3-N	378	GLU	N-CA	-5.91	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-P	1663	GLN	N-CA	5.91	1.52	1.46
6	4-N	378	GLU	N-CA	-5.91	1.38	1.46
3	4-P	1663	GLN	N-CA	5.91	1.52	1.46
6	5-N	378	GLU	N-CA	-5.91	1.38	1.46
3	5-P	1663	GLN	N-CA	5.91	1.52	1.46
6	6-N	378	GLU	N-CA	-5.91	1.38	1.46
3	6-P	1663	GLN	N-CA	5.91	1.52	1.46
6	7-N	378	GLU	N-CA	-5.91	1.38	1.46
3	7-P	1663	GLN	N-CA	5.91	1.52	1.46
6	8-N	378	GLU	N-CA	-5.91	1.38	1.46
3	8-P	1663	GLN	N-CA	5.91	1.52	1.46
4	1-F	419	GLY	N-CA	5.91	1.55	1.45
5	1-G	274	ARG	C-N	5.91	1.42	1.34
4	2-F	419	GLY	N-CA	5.91	1.55	1.45
5	2-G	274	ARG	C-N	5.91	1.42	1.34
4	3-F	419	GLY	N-CA	5.91	1.55	1.45
5	3-G	274	ARG	C-N	5.91	1.42	1.34
4	4-F	419	GLY	N-CA	5.91	1.55	1.45
5	4-G	274	ARG	C-N	5.91	1.42	1.34
4	5-F	419	GLY	N-CA	5.91	1.55	1.45
5	5-G	274	ARG	C-N	5.91	1.42	1.34
4	6-F	419	GLY	N-CA	5.91	1.55	1.45
5	6-G	274	ARG	C-N	5.91	1.42	1.34
4	7-F	419	GLY	N-CA	5.91	1.55	1.45
5	7-G	274	ARG	C-N	5.91	1.42	1.34
4	8-F	419	GLY	N-CA	5.91	1.55	1.45
5	8-G	274	ARG	C-N	5.91	1.42	1.34
6	1-H	393	LEU	N-CA	-5.91	1.38	1.46
6	2-H	393	LEU	N-CA	-5.91	1.38	1.46
6	3-H	393	LEU	N-CA	-5.91	1.38	1.46
6	4-H	393	LEU	N-CA	-5.91	1.38	1.46
6	5-H	393	LEU	N-CA	-5.91	1.38	1.46
6	6-H	393	LEU	N-CA	-5.91	1.38	1.46
6	7-H	393	LEU	N-CA	-5.91	1.38	1.46
6	8-H	393	LEU	N-CA	-5.91	1.38	1.46
6	1-N	393	LEU	N-CA	-5.91	1.38	1.46
6	2-N	393	LEU	N-CA	-5.91	1.38	1.46
6	3-N	393	LEU	N-CA	-5.91	1.38	1.46
6	4-N	393	LEU	N-CA	-5.91	1.38	1.46
6	5-N	393	LEU	N-CA	-5.91	1.38	1.46
6	6-N	393	LEU	N-CA	-5.91	1.38	1.46
6	7-N	393	LEU	N-CA	-5.91	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-N	393	LEU	N-CA	-5.91	1.38	1.46
4	1-F	319	SER	C-N	5.91	1.42	1.33
5	1-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	2-F	319	SER	C-N	5.91	1.42	1.33
5	2-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	3-F	319	SER	C-N	5.91	1.42	1.33
5	3-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	4-F	319	SER	C-N	5.91	1.42	1.33
5	4-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	5-F	319	SER	C-N	5.91	1.42	1.33
5	5-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	6-F	319	SER	C-N	5.91	1.42	1.33
5	6-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	7-F	319	SER	C-N	5.91	1.42	1.33
5	7-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	8-F	319	SER	C-N	5.91	1.42	1.33
5	8-Y	364	ILE	CA-C	-5.91	1.45	1.52
4	1-F	444	PHE	N-CA	5.90	1.53	1.46
3	1-P	1518	ASN	C-O	5.90	1.30	1.24
4	2-F	444	PHE	N-CA	5.90	1.53	1.46
3	2-P	1518	ASN	C-O	5.90	1.30	1.24
4	3-F	444	PHE	N-CA	5.90	1.53	1.46
3	3-P	1518	ASN	C-O	5.90	1.30	1.24
4	4-F	444	PHE	N-CA	5.90	1.53	1.46
3	4-P	1518	ASN	C-O	5.90	1.30	1.24
4	5-F	444	PHE	N-CA	5.90	1.53	1.46
3	5-P	1518	ASN	C-O	5.90	1.30	1.24
4	6-F	444	PHE	N-CA	5.90	1.53	1.46
3	6-P	1518	ASN	C-O	5.90	1.30	1.24
4	7-F	444	PHE	N-CA	5.90	1.53	1.46
3	7-P	1518	ASN	C-O	5.90	1.30	1.24
4	8-F	444	PHE	N-CA	5.90	1.53	1.46
3	8-P	1518	ASN	C-O	5.90	1.30	1.24
3	1-V	1518	ASN	C-O	5.90	1.30	1.24
3	2-V	1518	ASN	C-O	5.90	1.30	1.24
3	3-V	1518	ASN	C-O	5.90	1.30	1.24
3	4-V	1518	ASN	C-O	5.90	1.30	1.24
3	5-V	1518	ASN	C-O	5.90	1.30	1.24
3	6-V	1518	ASN	C-O	5.90	1.30	1.24
3	7-V	1518	ASN	C-O	5.90	1.30	1.24
3	8-V	1518	ASN	C-O	5.90	1.30	1.24
6	1-H	407	LEU	N-CA	-5.90	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-H	446	ARG	N-CA	5.90	1.53	1.46
4	1-R	319	SER	C-N	5.90	1.42	1.33
6	1-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	2-H	407	LEU	N-CA	-5.90	1.38	1.46
6	2-H	446	ARG	N-CA	5.90	1.53	1.46
4	2-R	319	SER	C-N	5.90	1.42	1.33
6	2-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	3-H	407	LEU	N-CA	-5.90	1.38	1.46
6	3-H	446	ARG	N-CA	5.90	1.53	1.46
4	3-R	319	SER	C-N	5.90	1.42	1.33
6	3-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	4-H	407	LEU	N-CA	-5.90	1.38	1.46
6	4-H	446	ARG	N-CA	5.90	1.53	1.46
4	4-R	319	SER	C-N	5.90	1.42	1.33
6	4-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	5-H	407	LEU	N-CA	-5.90	1.38	1.46
6	5-H	446	ARG	N-CA	5.90	1.53	1.46
4	5-R	319	SER	C-N	5.90	1.42	1.33
6	5-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	6-H	407	LEU	N-CA	-5.90	1.38	1.46
6	6-H	446	ARG	N-CA	5.90	1.53	1.46
4	6-R	319	SER	C-N	5.90	1.42	1.33
6	6-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	7-H	407	LEU	N-CA	-5.90	1.38	1.46
6	7-H	446	ARG	N-CA	5.90	1.53	1.46
4	7-R	319	SER	C-N	5.90	1.42	1.33
6	7-Z	378	GLU	N-CA	-5.90	1.38	1.46
6	8-H	407	LEU	N-CA	-5.90	1.38	1.46
6	8-H	446	ARG	N-CA	5.90	1.53	1.46
4	8-R	319	SER	C-N	5.90	1.42	1.33
6	8-Z	378	GLU	N-CA	-5.90	1.38	1.46
4	1-R	444	PHE	N-CA	5.90	1.53	1.46
6	1-T	378	GLU	N-CA	-5.90	1.38	1.46
4	2-R	444	PHE	N-CA	5.90	1.53	1.46
6	2-T	378	GLU	N-CA	-5.90	1.38	1.46
4	3-R	444	PHE	N-CA	5.90	1.53	1.46
6	3-T	378	GLU	N-CA	-5.90	1.38	1.46
4	4-R	444	PHE	N-CA	5.90	1.53	1.46
6	4-T	378	GLU	N-CA	-5.90	1.38	1.46
4	5-R	444	PHE	N-CA	5.90	1.53	1.46
6	5-T	378	GLU	N-CA	-5.90	1.38	1.46
4	6-R	444	PHE	N-CA	5.90	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-T	378	GLU	N-CA	-5.90	1.38	1.46
4	7-R	444	PHE	N-CA	5.90	1.53	1.46
6	7-T	378	GLU	N-CA	-5.90	1.38	1.46
4	8-R	444	PHE	N-CA	5.90	1.53	1.46
6	8-T	378	GLU	N-CA	-5.90	1.38	1.46
4	1-L	444	PHE	N-CA	5.89	1.53	1.46
5	1-M	364	ILE	CA-C	-5.89	1.45	1.52
4	2-L	444	PHE	N-CA	5.89	1.53	1.46
5	2-M	364	ILE	CA-C	-5.89	1.45	1.52
4	3-L	444	PHE	N-CA	5.89	1.53	1.46
5	3-M	364	ILE	CA-C	-5.89	1.45	1.52
4	4-L	444	PHE	N-CA	5.89	1.53	1.46
5	4-M	364	ILE	CA-C	-5.89	1.45	1.52
4	5-L	444	PHE	N-CA	5.89	1.53	1.46
5	5-M	364	ILE	CA-C	-5.89	1.45	1.52
4	6-L	444	PHE	N-CA	5.89	1.53	1.46
5	6-M	364	ILE	CA-C	-5.89	1.45	1.52
4	7-L	444	PHE	N-CA	5.89	1.53	1.46
5	7-M	364	ILE	CA-C	-5.89	1.45	1.52
4	8-L	444	PHE	N-CA	5.89	1.53	1.46
5	8-M	364	ILE	CA-C	-5.89	1.45	1.52
4	1-L	432	ASN	CA-C	5.89	1.61	1.52
4	1-X	419	GLY	N-CA	5.89	1.55	1.45
4	2-L	432	ASN	CA-C	5.89	1.61	1.52
4	2-X	419	GLY	N-CA	5.89	1.55	1.45
4	3-L	432	ASN	CA-C	5.89	1.61	1.52
4	3-X	419	GLY	N-CA	5.89	1.55	1.45
4	4-L	432	ASN	CA-C	5.89	1.61	1.52
4	4-X	419	GLY	N-CA	5.89	1.55	1.45
4	5-L	432	ASN	CA-C	5.89	1.61	1.52
4	5-X	419	GLY	N-CA	5.89	1.55	1.45
4	6-L	432	ASN	CA-C	5.89	1.61	1.52
4	6-X	419	GLY	N-CA	5.89	1.55	1.45
4	7-L	432	ASN	CA-C	5.89	1.61	1.52
4	7-X	419	GLY	N-CA	5.89	1.55	1.45
4	8-L	432	ASN	CA-C	5.89	1.61	1.52
4	8-X	419	GLY	N-CA	5.89	1.55	1.45
4	1-X	432	ASN	CA-C	5.89	1.61	1.52
4	2-X	432	ASN	CA-C	5.89	1.61	1.52
4	3-X	432	ASN	CA-C	5.89	1.61	1.52
4	4-X	432	ASN	CA-C	5.89	1.61	1.52
4	5-X	432	ASN	CA-C	5.89	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6-X	432	ASN	CA-C	5.89	1.61	1.52
4	7-X	432	ASN	CA-C	5.89	1.61	1.52
4	8-X	432	ASN	CA-C	5.89	1.61	1.52
5	1-S	274	ARG	C-N	5.88	1.42	1.34
4	1-X	444	PHE	N-CA	5.88	1.53	1.46
5	2-S	274	ARG	C-N	5.88	1.42	1.34
4	2-X	444	PHE	N-CA	5.88	1.53	1.46
5	3-S	274	ARG	C-N	5.88	1.42	1.34
4	3-X	444	PHE	N-CA	5.88	1.53	1.46
5	4-S	274	ARG	C-N	5.88	1.42	1.34
4	4-X	444	PHE	N-CA	5.88	1.53	1.46
5	5-S	274	ARG	C-N	5.88	1.42	1.34
4	5-X	444	PHE	N-CA	5.88	1.53	1.46
5	6-S	274	ARG	C-N	5.88	1.42	1.34
4	6-X	444	PHE	N-CA	5.88	1.53	1.46
5	7-S	274	ARG	C-N	5.88	1.42	1.34
4	7-X	444	PHE	N-CA	5.88	1.53	1.46
5	8-S	274	ARG	C-N	5.88	1.42	1.34
4	8-X	444	PHE	N-CA	5.88	1.53	1.46
6	1-T	446	ARG	N-CA	5.88	1.53	1.46
6	2-T	446	ARG	N-CA	5.88	1.53	1.46
6	3-T	446	ARG	N-CA	5.88	1.53	1.46
6	4-T	446	ARG	N-CA	5.88	1.53	1.46
6	5-T	446	ARG	N-CA	5.88	1.53	1.46
6	6-T	446	ARG	N-CA	5.88	1.53	1.46
6	7-T	446	ARG	N-CA	5.88	1.53	1.46
6	8-T	446	ARG	N-CA	5.88	1.53	1.46
4	1-F	432	ASN	CA-C	5.88	1.61	1.52
4	2-F	432	ASN	CA-C	5.88	1.61	1.52
4	3-F	432	ASN	CA-C	5.88	1.61	1.52
4	4-F	432	ASN	CA-C	5.88	1.61	1.52
4	5-F	432	ASN	CA-C	5.88	1.61	1.52
4	6-F	432	ASN	CA-C	5.88	1.61	1.52
4	7-F	432	ASN	CA-C	5.88	1.61	1.52
4	8-F	432	ASN	CA-C	5.88	1.61	1.52
6	1-T	393	LEU	N-CA	-5.88	1.38	1.46
6	2-T	393	LEU	N-CA	-5.88	1.38	1.46
6	3-T	393	LEU	N-CA	-5.88	1.38	1.46
6	4-T	393	LEU	N-CA	-5.88	1.38	1.46
6	5-T	393	LEU	N-CA	-5.88	1.38	1.46
6	6-T	393	LEU	N-CA	-5.88	1.38	1.46
6	7-T	393	LEU	N-CA	-5.88	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-T	393	LEU	N-CA	-5.88	1.38	1.46
5	1-M	274	ARG	C-N	5.88	1.42	1.34
5	2-M	274	ARG	C-N	5.88	1.42	1.34
5	3-M	274	ARG	C-N	5.88	1.42	1.34
5	4-M	274	ARG	C-N	5.88	1.42	1.34
5	5-M	274	ARG	C-N	5.88	1.42	1.34
5	6-M	274	ARG	C-N	5.88	1.42	1.34
5	7-M	274	ARG	C-N	5.88	1.42	1.34
5	8-M	274	ARG	C-N	5.88	1.42	1.34
6	1-T	495	LEU	C-N	5.87	1.41	1.33
6	2-T	495	LEU	C-N	5.87	1.41	1.33
6	3-T	495	LEU	C-N	5.87	1.41	1.33
6	4-T	495	LEU	C-N	5.87	1.41	1.33
6	5-T	495	LEU	C-N	5.87	1.41	1.33
6	6-T	495	LEU	C-N	5.87	1.41	1.33
6	7-T	495	LEU	C-N	5.87	1.41	1.33
6	8-T	495	LEU	C-N	5.87	1.41	1.33
5	1-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	2-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	3-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	4-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	5-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	6-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	7-Y	339	TYR	CA-C	-5.87	1.47	1.53
5	8-Y	339	TYR	CA-C	-5.87	1.47	1.53
6	1-N	446	ARG	N-CA	5.87	1.53	1.46
6	2-N	446	ARG	N-CA	5.87	1.53	1.46
6	3-N	446	ARG	N-CA	5.87	1.53	1.46
6	4-N	446	ARG	N-CA	5.87	1.53	1.46
6	5-N	446	ARG	N-CA	5.87	1.53	1.46
6	6-N	446	ARG	N-CA	5.87	1.53	1.46
6	7-N	446	ARG	N-CA	5.87	1.53	1.46
6	8-N	446	ARG	N-CA	5.87	1.53	1.46
5	1-M	339	TYR	CA-C	-5.87	1.47	1.53
5	1-S	364	ILE	CA-C	-5.87	1.45	1.52
5	2-M	339	TYR	CA-C	-5.87	1.47	1.53
5	2-S	364	ILE	CA-C	-5.87	1.45	1.52
5	3-M	339	TYR	CA-C	-5.87	1.47	1.53
5	3-S	364	ILE	CA-C	-5.87	1.45	1.52
5	4-M	339	TYR	CA-C	-5.87	1.47	1.53
5	4-S	364	ILE	CA-C	-5.87	1.45	1.52
5	5-M	339	TYR	CA-C	-5.87	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-S	364	ILE	CA-C	-5.87	1.45	1.52
5	6-M	339	TYR	CA-C	-5.87	1.47	1.53
5	6-S	364	ILE	CA-C	-5.87	1.45	1.52
5	7-M	339	TYR	CA-C	-5.87	1.47	1.53
5	7-S	364	ILE	CA-C	-5.87	1.45	1.52
5	8-M	339	TYR	CA-C	-5.87	1.47	1.53
5	8-S	364	ILE	CA-C	-5.87	1.45	1.52
5	1-M	303	ARG	N-CA	-5.87	1.38	1.46
5	2-M	303	ARG	N-CA	-5.87	1.38	1.46
5	3-M	303	ARG	N-CA	-5.87	1.38	1.46
5	4-M	303	ARG	N-CA	-5.87	1.38	1.46
5	5-M	303	ARG	N-CA	-5.87	1.38	1.46
5	6-M	303	ARG	N-CA	-5.87	1.38	1.46
5	7-M	303	ARG	N-CA	-5.87	1.38	1.46
5	8-M	303	ARG	N-CA	-5.87	1.38	1.46
6	1-H	495	LEU	C-N	5.86	1.41	1.33
6	2-H	495	LEU	C-N	5.86	1.41	1.33
6	3-H	495	LEU	C-N	5.86	1.41	1.33
6	4-H	495	LEU	C-N	5.86	1.41	1.33
6	5-H	495	LEU	C-N	5.86	1.41	1.33
6	6-H	495	LEU	C-N	5.86	1.41	1.33
6	7-H	495	LEU	C-N	5.86	1.41	1.33
6	8-H	495	LEU	C-N	5.86	1.41	1.33
5	1-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	1-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	2-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	2-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	3-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	3-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	4-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	4-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	5-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	5-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	6-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	6-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	7-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	7-Z	393	LEU	N-CA	-5.86	1.38	1.46
5	8-M	324	ILE	CA-CB	-5.86	1.46	1.54
6	8-Z	393	LEU	N-CA	-5.86	1.38	1.46
6	1-Z	495	LEU	C-N	5.85	1.41	1.33
6	2-Z	495	LEU	C-N	5.85	1.41	1.33
6	3-Z	495	LEU	C-N	5.85	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-Z	495	LEU	C-N	5.85	1.41	1.33
6	5-Z	495	LEU	C-N	5.85	1.41	1.33
6	6-Z	495	LEU	C-N	5.85	1.41	1.33
6	7-Z	495	LEU	C-N	5.85	1.41	1.33
6	8-Z	495	LEU	C-N	5.85	1.41	1.33
3	1-D	1518	ASN	C-O	5.85	1.30	1.24
3	2-D	1518	ASN	C-O	5.85	1.30	1.24
3	3-D	1518	ASN	C-O	5.85	1.30	1.24
3	4-D	1518	ASN	C-O	5.85	1.30	1.24
3	5-D	1518	ASN	C-O	5.85	1.30	1.24
3	6-D	1518	ASN	C-O	5.85	1.30	1.24
3	7-D	1518	ASN	C-O	5.85	1.30	1.24
3	8-D	1518	ASN	C-O	5.85	1.30	1.24
3	1-P	1493	ARG	C-N	-5.85	1.25	1.33
3	1-V	1493	ARG	C-N	-5.85	1.25	1.33
4	1-X	489	LYS	N-CA	-5.85	1.38	1.46
3	2-P	1493	ARG	C-N	-5.85	1.25	1.33
3	2-V	1493	ARG	C-N	-5.85	1.25	1.33
4	2-X	489	LYS	N-CA	-5.85	1.38	1.46
3	3-P	1493	ARG	C-N	-5.85	1.25	1.33
3	3-V	1493	ARG	C-N	-5.85	1.25	1.33
4	3-X	489	LYS	N-CA	-5.85	1.38	1.46
3	4-P	1493	ARG	C-N	-5.85	1.25	1.33
3	4-V	1493	ARG	C-N	-5.85	1.25	1.33
4	4-X	489	LYS	N-CA	-5.85	1.38	1.46
3	5-P	1493	ARG	C-N	-5.85	1.25	1.33
3	5-V	1493	ARG	C-N	-5.85	1.25	1.33
4	5-X	489	LYS	N-CA	-5.85	1.38	1.46
3	6-P	1493	ARG	C-N	-5.85	1.25	1.33
3	6-V	1493	ARG	C-N	-5.85	1.25	1.33
4	6-X	489	LYS	N-CA	-5.85	1.38	1.46
3	7-P	1493	ARG	C-N	-5.85	1.25	1.33
3	7-V	1493	ARG	C-N	-5.85	1.25	1.33
4	7-X	489	LYS	N-CA	-5.85	1.38	1.46
3	8-P	1493	ARG	C-N	-5.85	1.25	1.33
3	8-V	1493	ARG	C-N	-5.85	1.25	1.33
4	8-X	489	LYS	N-CA	-5.85	1.38	1.46
5	1-G	364	ILE	CA-C	-5.84	1.45	1.52
5	1-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	2-G	364	ILE	CA-C	-5.84	1.45	1.52
5	2-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	3-G	364	ILE	CA-C	-5.84	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	4-G	364	ILE	CA-C	-5.84	1.45	1.52
5	4-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	5-G	364	ILE	CA-C	-5.84	1.45	1.52
5	5-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	6-G	364	ILE	CA-C	-5.84	1.45	1.52
5	6-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	7-G	364	ILE	CA-C	-5.84	1.45	1.52
5	7-Y	303	ARG	N-CA	-5.84	1.38	1.46
5	8-G	364	ILE	CA-C	-5.84	1.45	1.52
5	8-Y	303	ARG	N-CA	-5.84	1.38	1.46
4	1-L	489	LYS	N-CA	-5.84	1.38	1.46
4	2-L	489	LYS	N-CA	-5.84	1.38	1.46
4	3-L	489	LYS	N-CA	-5.84	1.38	1.46
4	4-L	489	LYS	N-CA	-5.84	1.38	1.46
4	5-L	489	LYS	N-CA	-5.84	1.38	1.46
4	6-L	489	LYS	N-CA	-5.84	1.38	1.46
4	7-L	489	LYS	N-CA	-5.84	1.38	1.46
4	8-L	489	LYS	N-CA	-5.84	1.38	1.46
5	1-G	272	ILE	CA-C	-5.84	1.45	1.52
5	2-G	272	ILE	CA-C	-5.84	1.45	1.52
5	3-G	272	ILE	CA-C	-5.84	1.45	1.52
5	4-G	272	ILE	CA-C	-5.84	1.45	1.52
5	5-G	272	ILE	CA-C	-5.84	1.45	1.52
5	6-G	272	ILE	CA-C	-5.84	1.45	1.52
5	7-G	272	ILE	CA-C	-5.84	1.45	1.52
5	8-G	272	ILE	CA-C	-5.84	1.45	1.52
4	1-R	419	GLY	N-CA	5.84	1.55	1.45
5	1-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	2-R	419	GLY	N-CA	5.84	1.55	1.45
5	2-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	3-R	419	GLY	N-CA	5.84	1.55	1.45
5	3-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	4-R	419	GLY	N-CA	5.84	1.55	1.45
5	4-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	5-R	419	GLY	N-CA	5.84	1.55	1.45
5	5-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	6-R	419	GLY	N-CA	5.84	1.55	1.45
5	6-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	7-R	419	GLY	N-CA	5.84	1.55	1.45
5	7-S	324	ILE	CA-CB	-5.84	1.46	1.54
4	8-R	419	GLY	N-CA	5.84	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	324	ILE	CA-CB	-5.84	1.46	1.54
5	1-S	303	ARG	N-CA	-5.84	1.38	1.46
5	2-S	303	ARG	N-CA	-5.84	1.38	1.46
5	3-S	303	ARG	N-CA	-5.84	1.38	1.46
5	4-S	303	ARG	N-CA	-5.84	1.38	1.46
5	5-S	303	ARG	N-CA	-5.84	1.38	1.46
5	6-S	303	ARG	N-CA	-5.84	1.38	1.46
5	7-S	303	ARG	N-CA	-5.84	1.38	1.46
5	8-S	303	ARG	N-CA	-5.84	1.38	1.46
5	1-S	339	TYR	CA-C	-5.84	1.47	1.53
5	2-S	339	TYR	CA-C	-5.84	1.47	1.53
5	3-S	339	TYR	CA-C	-5.84	1.47	1.53
5	4-S	339	TYR	CA-C	-5.84	1.47	1.53
5	5-S	339	TYR	CA-C	-5.84	1.47	1.53
5	6-S	339	TYR	CA-C	-5.84	1.47	1.53
5	7-S	339	TYR	CA-C	-5.84	1.47	1.53
5	8-S	339	TYR	CA-C	-5.84	1.47	1.53
5	1-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	2-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	3-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	4-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	5-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	6-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	7-G	324	ILE	CA-CB	-5.83	1.46	1.54
5	8-G	324	ILE	CA-CB	-5.83	1.46	1.54
3	1-D	1493	ARG	C-N	-5.83	1.26	1.33
3	2-D	1493	ARG	C-N	-5.83	1.26	1.33
3	3-D	1493	ARG	C-N	-5.83	1.26	1.33
3	4-D	1493	ARG	C-N	-5.83	1.26	1.33
3	5-D	1493	ARG	C-N	-5.83	1.26	1.33
3	6-D	1493	ARG	C-N	-5.83	1.26	1.33
3	7-D	1493	ARG	C-N	-5.83	1.26	1.33
3	8-D	1493	ARG	C-N	-5.83	1.26	1.33
5	1-G	303	ARG	N-CA	-5.83	1.38	1.46
5	2-G	303	ARG	N-CA	-5.83	1.38	1.46
5	3-G	303	ARG	N-CA	-5.83	1.38	1.46
5	4-G	303	ARG	N-CA	-5.83	1.38	1.46
5	5-G	303	ARG	N-CA	-5.83	1.38	1.46
5	6-G	303	ARG	N-CA	-5.83	1.38	1.46
5	7-G	303	ARG	N-CA	-5.83	1.38	1.46
5	8-G	303	ARG	N-CA	-5.83	1.38	1.46
5	1-G	339	TYR	CA-C	-5.82	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-G	339	TYR	CA-C	-5.82	1.47	1.53
5	3-G	339	TYR	CA-C	-5.82	1.47	1.53
5	4-G	339	TYR	CA-C	-5.82	1.47	1.53
5	5-G	339	TYR	CA-C	-5.82	1.47	1.53
5	6-G	339	TYR	CA-C	-5.82	1.47	1.53
5	7-G	339	TYR	CA-C	-5.82	1.47	1.53
5	8-G	339	TYR	CA-C	-5.82	1.47	1.53
3	1-J	1493	ARG	C-N	-5.82	1.26	1.33
3	2-J	1493	ARG	C-N	-5.82	1.26	1.33
3	3-J	1493	ARG	C-N	-5.82	1.26	1.33
3	4-J	1493	ARG	C-N	-5.82	1.26	1.33
3	5-J	1493	ARG	C-N	-5.82	1.26	1.33
3	6-J	1493	ARG	C-N	-5.82	1.26	1.33
3	7-J	1493	ARG	C-N	-5.82	1.26	1.33
3	8-J	1493	ARG	C-N	-5.82	1.26	1.33
4	1-L	412	VAL	C-N	5.82	1.41	1.33
4	2-L	412	VAL	C-N	5.82	1.41	1.33
4	3-L	412	VAL	C-N	5.82	1.41	1.33
4	4-L	412	VAL	C-N	5.82	1.41	1.33
4	5-L	412	VAL	C-N	5.82	1.41	1.33
4	6-L	412	VAL	C-N	5.82	1.41	1.33
4	7-L	412	VAL	C-N	5.82	1.41	1.33
4	8-L	412	VAL	C-N	5.82	1.41	1.33
4	1-R	489	LYS	N-CA	-5.81	1.38	1.46
5	1-S	272	ILE	CA-C	-5.81	1.45	1.52
4	2-R	489	LYS	N-CA	-5.81	1.38	1.46
5	2-S	272	ILE	CA-C	-5.81	1.45	1.52
4	3-R	489	LYS	N-CA	-5.81	1.38	1.46
5	3-S	272	ILE	CA-C	-5.81	1.45	1.52
4	4-R	489	LYS	N-CA	-5.81	1.38	1.46
5	4-S	272	ILE	CA-C	-5.81	1.45	1.52
4	5-R	489	LYS	N-CA	-5.81	1.38	1.46
5	5-S	272	ILE	CA-C	-5.81	1.45	1.52
4	6-R	489	LYS	N-CA	-5.81	1.38	1.46
5	6-S	272	ILE	CA-C	-5.81	1.45	1.52
4	7-R	489	LYS	N-CA	-5.81	1.38	1.46
5	7-S	272	ILE	CA-C	-5.81	1.45	1.52
4	8-R	489	LYS	N-CA	-5.81	1.38	1.46
5	8-S	272	ILE	CA-C	-5.81	1.45	1.52
5	1-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	1-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	2-Y	324	ILE	CA-CB	-5.81	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	3-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	3-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	4-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	4-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	5-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	5-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	6-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	6-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	7-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	7-Z	416	GLU	N-CA	-5.81	1.38	1.46
5	8-Y	324	ILE	CA-CB	-5.81	1.46	1.54
6	8-Z	416	GLU	N-CA	-5.81	1.38	1.46
4	1-R	412	VAL	C-N	5.80	1.41	1.33
5	1-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	2-R	412	VAL	C-N	5.80	1.41	1.33
5	2-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	3-R	412	VAL	C-N	5.80	1.41	1.33
5	3-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	4-R	412	VAL	C-N	5.80	1.41	1.33
5	4-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	5-R	412	VAL	C-N	5.80	1.41	1.33
5	5-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	6-R	412	VAL	C-N	5.80	1.41	1.33
5	6-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	7-R	412	VAL	C-N	5.80	1.41	1.33
5	7-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	8-R	412	VAL	C-N	5.80	1.41	1.33
5	8-Y	272	ILE	CA-C	-5.80	1.45	1.52
4	1-F	489	LYS	N-CA	-5.79	1.39	1.46
5	1-M	272	ILE	CA-C	-5.79	1.45	1.52
4	2-F	489	LYS	N-CA	-5.79	1.39	1.46
5	2-M	272	ILE	CA-C	-5.79	1.45	1.52
4	3-F	489	LYS	N-CA	-5.79	1.39	1.46
5	3-M	272	ILE	CA-C	-5.79	1.45	1.52
4	4-F	489	LYS	N-CA	-5.79	1.39	1.46
5	4-M	272	ILE	CA-C	-5.79	1.45	1.52
4	5-F	489	LYS	N-CA	-5.79	1.39	1.46
5	5-M	272	ILE	CA-C	-5.79	1.45	1.52
4	6-F	489	LYS	N-CA	-5.79	1.39	1.46
5	6-M	272	ILE	CA-C	-5.79	1.45	1.52
4	7-F	489	LYS	N-CA	-5.79	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-M	272	ILE	CA-C	-5.79	1.45	1.52
4	8-F	489	LYS	N-CA	-5.79	1.39	1.46
5	8-M	272	ILE	CA-C	-5.79	1.45	1.52
2	1-C	15	GLN	C-N	5.78	1.41	1.33
2	2-C	15	GLN	C-N	5.78	1.41	1.33
2	3-C	15	GLN	C-N	5.78	1.41	1.33
2	4-C	15	GLN	C-N	5.78	1.41	1.33
2	5-C	15	GLN	C-N	5.78	1.41	1.33
2	6-C	15	GLN	C-N	5.78	1.41	1.33
2	7-C	15	GLN	C-N	5.78	1.41	1.33
2	8-C	15	GLN	C-N	5.78	1.41	1.33
6	1-Z	446	ARG	N-CA	5.78	1.53	1.46
6	2-Z	446	ARG	N-CA	5.78	1.53	1.46
6	3-Z	446	ARG	N-CA	5.78	1.53	1.46
6	4-Z	446	ARG	N-CA	5.78	1.53	1.46
6	5-Z	446	ARG	N-CA	5.78	1.53	1.46
6	6-Z	446	ARG	N-CA	5.78	1.53	1.46
6	7-Z	446	ARG	N-CA	5.78	1.53	1.46
6	8-Z	446	ARG	N-CA	5.78	1.53	1.46
4	1-X	412	VAL	C-N	5.78	1.41	1.33
4	2-X	412	VAL	C-N	5.78	1.41	1.33
4	3-X	412	VAL	C-N	5.78	1.41	1.33
4	4-X	412	VAL	C-N	5.78	1.41	1.33
4	5-X	412	VAL	C-N	5.78	1.41	1.33
4	6-X	412	VAL	C-N	5.78	1.41	1.33
4	7-X	412	VAL	C-N	5.78	1.41	1.33
4	8-X	412	VAL	C-N	5.78	1.41	1.33
2	1-U	15	GLN	C-N	5.77	1.41	1.33
2	2-U	15	GLN	C-N	5.77	1.41	1.33
2	3-U	15	GLN	C-N	5.77	1.41	1.33
2	4-U	15	GLN	C-N	5.77	1.41	1.33
2	5-U	15	GLN	C-N	5.77	1.41	1.33
2	6-U	15	GLN	C-N	5.77	1.41	1.33
2	7-U	15	GLN	C-N	5.77	1.41	1.33
2	8-U	15	GLN	C-N	5.77	1.41	1.33
2	1-O	15	GLN	C-N	5.77	1.41	1.33
2	2-O	15	GLN	C-N	5.77	1.41	1.33
2	3-O	15	GLN	C-N	5.77	1.41	1.33
2	4-O	15	GLN	C-N	5.77	1.41	1.33
2	5-O	15	GLN	C-N	5.77	1.41	1.33
2	6-O	15	GLN	C-N	5.77	1.41	1.33
2	7-O	15	GLN	C-N	5.77	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-O	15	GLN	C-N	5.77	1.41	1.33
5	1-S	368	GLU	N-CA	-5.77	1.38	1.46
2	1-U	9	LEU	CA-C	-5.77	1.45	1.52
5	2-S	368	GLU	N-CA	-5.77	1.38	1.46
2	2-U	9	LEU	CA-C	-5.77	1.45	1.52
5	3-S	368	GLU	N-CA	-5.77	1.38	1.46
2	3-U	9	LEU	CA-C	-5.77	1.45	1.52
5	4-S	368	GLU	N-CA	-5.77	1.38	1.46
2	4-U	9	LEU	CA-C	-5.77	1.45	1.52
5	5-S	368	GLU	N-CA	-5.77	1.38	1.46
2	5-U	9	LEU	CA-C	-5.77	1.45	1.52
5	6-S	368	GLU	N-CA	-5.77	1.38	1.46
2	6-U	9	LEU	CA-C	-5.77	1.45	1.52
5	7-S	368	GLU	N-CA	-5.77	1.38	1.46
2	7-U	9	LEU	CA-C	-5.77	1.45	1.52
5	8-S	368	GLU	N-CA	-5.77	1.38	1.46
2	8-U	9	LEU	CA-C	-5.77	1.45	1.52
5	1-G	368	GLU	N-CA	-5.77	1.38	1.46
6	1-T	416	GLU	N-CA	-5.77	1.38	1.46
5	2-G	368	GLU	N-CA	-5.77	1.38	1.46
6	2-T	416	GLU	N-CA	-5.77	1.38	1.46
5	3-G	368	GLU	N-CA	-5.77	1.38	1.46
6	3-T	416	GLU	N-CA	-5.77	1.38	1.46
5	4-G	368	GLU	N-CA	-5.77	1.38	1.46
6	4-T	416	GLU	N-CA	-5.77	1.38	1.46
5	5-G	368	GLU	N-CA	-5.77	1.38	1.46
6	5-T	416	GLU	N-CA	-5.77	1.38	1.46
5	6-G	368	GLU	N-CA	-5.77	1.38	1.46
6	6-T	416	GLU	N-CA	-5.77	1.38	1.46
5	7-G	368	GLU	N-CA	-5.77	1.38	1.46
6	7-T	416	GLU	N-CA	-5.77	1.38	1.46
5	8-G	368	GLU	N-CA	-5.77	1.38	1.46
6	8-T	416	GLU	N-CA	-5.77	1.38	1.46
5	1-M	368	GLU	N-CA	-5.76	1.38	1.46
6	1-N	495	LEU	C-N	5.76	1.41	1.33
5	2-M	368	GLU	N-CA	-5.76	1.38	1.46
6	2-N	495	LEU	C-N	5.76	1.41	1.33
5	3-M	368	GLU	N-CA	-5.76	1.38	1.46
6	3-N	495	LEU	C-N	5.76	1.41	1.33
5	4-M	368	GLU	N-CA	-5.76	1.38	1.46
6	4-N	495	LEU	C-N	5.76	1.41	1.33
5	5-M	368	GLU	N-CA	-5.76	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	5-N	495	LEU	C-N	5.76	1.41	1.33
5	6-M	368	GLU	N-CA	-5.76	1.38	1.46
6	6-N	495	LEU	C-N	5.76	1.41	1.33
5	7-M	368	GLU	N-CA	-5.76	1.38	1.46
6	7-N	495	LEU	C-N	5.76	1.41	1.33
5	8-M	368	GLU	N-CA	-5.76	1.38	1.46
6	8-N	495	LEU	C-N	5.76	1.41	1.33
6	1-H	416	GLU	N-CA	-5.76	1.38	1.46
6	2-H	416	GLU	N-CA	-5.76	1.38	1.46
6	3-H	416	GLU	N-CA	-5.76	1.38	1.46
6	4-H	416	GLU	N-CA	-5.76	1.38	1.46
6	5-H	416	GLU	N-CA	-5.76	1.38	1.46
6	6-H	416	GLU	N-CA	-5.76	1.38	1.46
6	7-H	416	GLU	N-CA	-5.76	1.38	1.46
6	8-H	416	GLU	N-CA	-5.76	1.38	1.46
4	1-R	466	HIS	N-CA	-5.76	1.38	1.46
4	2-R	466	HIS	N-CA	-5.76	1.38	1.46
4	3-R	466	HIS	N-CA	-5.76	1.38	1.46
4	4-R	466	HIS	N-CA	-5.76	1.38	1.46
4	5-R	466	HIS	N-CA	-5.76	1.38	1.46
4	6-R	466	HIS	N-CA	-5.76	1.38	1.46
4	7-R	466	HIS	N-CA	-5.76	1.38	1.46
4	8-R	466	HIS	N-CA	-5.76	1.38	1.46
5	1-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	2-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	3-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	4-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	5-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	6-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	7-Y	368	GLU	N-CA	-5.75	1.38	1.46
5	8-Y	368	GLU	N-CA	-5.75	1.38	1.46
2	1-C	9	LEU	CA-C	-5.75	1.45	1.52
2	1-I	15	GLN	C-N	5.75	1.41	1.33
2	2-C	9	LEU	CA-C	-5.75	1.45	1.52
2	2-I	15	GLN	C-N	5.75	1.41	1.33
2	3-C	9	LEU	CA-C	-5.75	1.45	1.52
2	3-I	15	GLN	C-N	5.75	1.41	1.33
2	4-C	9	LEU	CA-C	-5.75	1.45	1.52
2	4-I	15	GLN	C-N	5.75	1.41	1.33
2	5-C	9	LEU	CA-C	-5.75	1.45	1.52
2	5-I	15	GLN	C-N	5.75	1.41	1.33
2	6-C	9	LEU	CA-C	-5.75	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6-I	15	GLN	C-N	5.75	1.41	1.33
2	7-C	9	LEU	CA-C	-5.75	1.45	1.52
2	7-I	15	GLN	C-N	5.75	1.41	1.33
2	8-C	9	LEU	CA-C	-5.75	1.45	1.52
2	8-I	15	GLN	C-N	5.75	1.41	1.33
4	1-L	466	HIS	N-CA	-5.74	1.38	1.46
4	2-L	466	HIS	N-CA	-5.74	1.38	1.46
4	3-L	466	HIS	N-CA	-5.74	1.38	1.46
4	4-L	466	HIS	N-CA	-5.74	1.38	1.46
4	5-L	466	HIS	N-CA	-5.74	1.38	1.46
4	6-L	466	HIS	N-CA	-5.74	1.38	1.46
4	7-L	466	HIS	N-CA	-5.74	1.38	1.46
4	8-L	466	HIS	N-CA	-5.74	1.38	1.46
4	1-F	412	VAL	C-N	5.74	1.41	1.33
2	1-I	9	LEU	CA-C	-5.74	1.45	1.52
4	2-F	412	VAL	C-N	5.74	1.41	1.33
2	2-I	9	LEU	CA-C	-5.74	1.45	1.52
4	3-F	412	VAL	C-N	5.74	1.41	1.33
2	3-I	9	LEU	CA-C	-5.74	1.45	1.52
4	4-F	412	VAL	C-N	5.74	1.41	1.33
2	4-I	9	LEU	CA-C	-5.74	1.45	1.52
4	5-F	412	VAL	C-N	5.74	1.41	1.33
2	5-I	9	LEU	CA-C	-5.74	1.45	1.52
4	6-F	412	VAL	C-N	5.74	1.41	1.33
2	6-I	9	LEU	CA-C	-5.74	1.45	1.52
4	7-F	412	VAL	C-N	5.74	1.41	1.33
2	7-I	9	LEU	CA-C	-5.74	1.45	1.52
4	8-F	412	VAL	C-N	5.74	1.41	1.33
2	8-I	9	LEU	CA-C	-5.74	1.45	1.52
6	1-Z	416	GLU	C-N	-5.73	1.26	1.33
6	2-Z	416	GLU	C-N	-5.73	1.26	1.33
6	3-Z	416	GLU	C-N	-5.73	1.26	1.33
6	4-Z	416	GLU	C-N	-5.73	1.26	1.33
6	5-Z	416	GLU	C-N	-5.73	1.26	1.33
6	6-Z	416	GLU	C-N	-5.73	1.26	1.33
6	7-Z	416	GLU	C-N	-5.73	1.26	1.33
6	8-Z	416	GLU	C-N	-5.73	1.26	1.33
6	1-H	416	GLU	C-N	-5.73	1.26	1.33
6	1-N	416	GLU	N-CA	-5.73	1.38	1.46
6	2-H	416	GLU	C-N	-5.73	1.26	1.33
6	2-N	416	GLU	N-CA	-5.73	1.38	1.46
6	3-H	416	GLU	C-N	-5.73	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3-N	416	GLU	N-CA	-5.73	1.38	1.46
6	4-H	416	GLU	C-N	-5.73	1.26	1.33
6	4-N	416	GLU	N-CA	-5.73	1.38	1.46
6	5-H	416	GLU	C-N	-5.73	1.26	1.33
6	5-N	416	GLU	N-CA	-5.73	1.38	1.46
6	6-H	416	GLU	C-N	-5.73	1.26	1.33
6	6-N	416	GLU	N-CA	-5.73	1.38	1.46
6	7-H	416	GLU	C-N	-5.73	1.26	1.33
6	7-N	416	GLU	N-CA	-5.73	1.38	1.46
6	8-H	416	GLU	C-N	-5.73	1.26	1.33
6	8-N	416	GLU	N-CA	-5.73	1.38	1.46
5	1-M	409	ASN	N-CA	-5.73	1.39	1.46
2	1-O	9	LEU	CA-C	-5.73	1.45	1.52
5	2-M	409	ASN	N-CA	-5.73	1.39	1.46
2	2-O	9	LEU	CA-C	-5.73	1.45	1.52
5	3-M	409	ASN	N-CA	-5.73	1.39	1.46
2	3-O	9	LEU	CA-C	-5.73	1.45	1.52
5	4-M	409	ASN	N-CA	-5.73	1.39	1.46
2	4-O	9	LEU	CA-C	-5.73	1.45	1.52
5	5-M	409	ASN	N-CA	-5.73	1.39	1.46
2	5-O	9	LEU	CA-C	-5.73	1.45	1.52
5	6-M	409	ASN	N-CA	-5.73	1.39	1.46
2	6-O	9	LEU	CA-C	-5.73	1.45	1.52
5	7-M	409	ASN	N-CA	-5.73	1.39	1.46
2	7-O	9	LEU	CA-C	-5.73	1.45	1.52
5	8-M	409	ASN	N-CA	-5.73	1.39	1.46
2	8-O	9	LEU	CA-C	-5.73	1.45	1.52
4	1-F	466	HIS	N-CA	-5.72	1.38	1.46
4	2-F	466	HIS	N-CA	-5.72	1.38	1.46
4	3-F	466	HIS	N-CA	-5.72	1.38	1.46
4	4-F	466	HIS	N-CA	-5.72	1.38	1.46
4	5-F	466	HIS	N-CA	-5.72	1.38	1.46
4	6-F	466	HIS	N-CA	-5.72	1.38	1.46
4	7-F	466	HIS	N-CA	-5.72	1.38	1.46
4	8-F	466	HIS	N-CA	-5.72	1.38	1.46
5	1-S	409	ASN	N-CA	-5.71	1.39	1.46
5	2-S	409	ASN	N-CA	-5.71	1.39	1.46
5	3-S	409	ASN	N-CA	-5.71	1.39	1.46
5	4-S	409	ASN	N-CA	-5.71	1.39	1.46
5	5-S	409	ASN	N-CA	-5.71	1.39	1.46
5	6-S	409	ASN	N-CA	-5.71	1.39	1.46
5	7-S	409	ASN	N-CA	-5.71	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	409	ASN	N-CA	-5.71	1.39	1.46
5	1-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	2-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	3-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	4-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	5-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	6-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	7-Y	409	ASN	N-CA	-5.71	1.39	1.46
5	8-Y	409	ASN	N-CA	-5.71	1.39	1.46
4	1-X	466	HIS	N-CA	-5.71	1.38	1.46
4	2-X	466	HIS	N-CA	-5.71	1.38	1.46
4	3-X	466	HIS	N-CA	-5.71	1.38	1.46
4	4-X	466	HIS	N-CA	-5.71	1.38	1.46
4	5-X	466	HIS	N-CA	-5.71	1.38	1.46
4	6-X	466	HIS	N-CA	-5.71	1.38	1.46
4	7-X	466	HIS	N-CA	-5.71	1.38	1.46
4	8-X	466	HIS	N-CA	-5.71	1.38	1.46
6	1-N	416	GLU	C-N	-5.71	1.26	1.33
6	1-T	416	GLU	C-N	-5.71	1.26	1.33
6	2-N	416	GLU	C-N	-5.71	1.26	1.33
6	2-T	416	GLU	C-N	-5.71	1.26	1.33
6	3-N	416	GLU	C-N	-5.71	1.26	1.33
6	3-T	416	GLU	C-N	-5.71	1.26	1.33
6	4-N	416	GLU	C-N	-5.71	1.26	1.33
6	4-T	416	GLU	C-N	-5.71	1.26	1.33
6	5-N	416	GLU	C-N	-5.71	1.26	1.33
6	5-T	416	GLU	C-N	-5.71	1.26	1.33
6	6-N	416	GLU	C-N	-5.71	1.26	1.33
6	6-T	416	GLU	C-N	-5.71	1.26	1.33
6	7-N	416	GLU	C-N	-5.71	1.26	1.33
6	7-T	416	GLU	C-N	-5.71	1.26	1.33
6	8-N	416	GLU	C-N	-5.71	1.26	1.33
6	8-T	416	GLU	C-N	-5.71	1.26	1.33
5	1-G	409	ASN	N-CA	-5.70	1.39	1.46
3	1-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	2-G	409	ASN	N-CA	-5.70	1.39	1.46
3	2-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	3-G	409	ASN	N-CA	-5.70	1.39	1.46
3	3-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	4-G	409	ASN	N-CA	-5.70	1.39	1.46
3	4-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	5-G	409	ASN	N-CA	-5.70	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	5-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	6-G	409	ASN	N-CA	-5.70	1.39	1.46
3	6-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	7-G	409	ASN	N-CA	-5.70	1.39	1.46
3	7-V	1466	ASN	CA-C	-5.70	1.45	1.52
5	8-G	409	ASN	N-CA	-5.70	1.39	1.46
3	8-V	1466	ASN	CA-C	-5.70	1.45	1.52
6	1-Z	395	PHE	C-N	5.70	1.40	1.34
6	2-Z	395	PHE	C-N	5.70	1.40	1.34
6	3-Z	395	PHE	C-N	5.70	1.40	1.34
6	4-Z	395	PHE	C-N	5.70	1.40	1.34
6	5-Z	395	PHE	C-N	5.70	1.40	1.34
6	6-Z	395	PHE	C-N	5.70	1.40	1.34
6	7-Z	395	PHE	C-N	5.70	1.40	1.34
6	8-Z	395	PHE	C-N	5.70	1.40	1.34
4	1-L	424	PRO	N-CA	-5.67	1.40	1.47
6	1-N	395	PHE	C-N	5.67	1.40	1.34
4	2-L	424	PRO	N-CA	-5.67	1.40	1.47
6	2-N	395	PHE	C-N	5.67	1.40	1.34
4	3-L	424	PRO	N-CA	-5.67	1.40	1.47
6	3-N	395	PHE	C-N	5.67	1.40	1.34
4	4-L	424	PRO	N-CA	-5.67	1.40	1.47
6	4-N	395	PHE	C-N	5.67	1.40	1.34
4	5-L	424	PRO	N-CA	-5.67	1.40	1.47
6	5-N	395	PHE	C-N	5.67	1.40	1.34
4	6-L	424	PRO	N-CA	-5.67	1.40	1.47
6	6-N	395	PHE	C-N	5.67	1.40	1.34
4	7-L	424	PRO	N-CA	-5.67	1.40	1.47
6	7-N	395	PHE	C-N	5.67	1.40	1.34
4	8-L	424	PRO	N-CA	-5.67	1.40	1.47
6	8-N	395	PHE	C-N	5.67	1.40	1.34
4	1-R	454	TYR	N-CA	5.67	1.53	1.46
4	2-R	454	TYR	N-CA	5.67	1.53	1.46
4	3-R	454	TYR	N-CA	5.67	1.53	1.46
4	4-R	454	TYR	N-CA	5.67	1.53	1.46
4	5-R	454	TYR	N-CA	5.67	1.53	1.46
4	6-R	454	TYR	N-CA	5.67	1.53	1.46
4	7-R	454	TYR	N-CA	5.67	1.53	1.46
4	8-R	454	TYR	N-CA	5.67	1.53	1.46
6	1-H	395	PHE	C-N	5.66	1.40	1.34
6	2-H	395	PHE	C-N	5.66	1.40	1.34
6	3-H	395	PHE	C-N	5.66	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-H	395	PHE	C-N	5.66	1.40	1.34
6	5-H	395	PHE	C-N	5.66	1.40	1.34
6	6-H	395	PHE	C-N	5.66	1.40	1.34
6	7-H	395	PHE	C-N	5.66	1.40	1.34
6	8-H	395	PHE	C-N	5.66	1.40	1.34
4	1-F	156	ASN	N-CA	-5.66	1.39	1.46
4	2-F	156	ASN	N-CA	-5.66	1.39	1.46
4	3-F	156	ASN	N-CA	-5.66	1.39	1.46
4	4-F	156	ASN	N-CA	-5.66	1.39	1.46
4	5-F	156	ASN	N-CA	-5.66	1.39	1.46
4	6-F	156	ASN	N-CA	-5.66	1.39	1.46
4	7-F	156	ASN	N-CA	-5.66	1.39	1.46
4	8-F	156	ASN	N-CA	-5.66	1.39	1.46
4	1-X	424	PRO	N-CA	-5.66	1.40	1.47
4	2-X	424	PRO	N-CA	-5.66	1.40	1.47
4	3-X	424	PRO	N-CA	-5.66	1.40	1.47
4	4-X	424	PRO	N-CA	-5.66	1.40	1.47
4	5-X	424	PRO	N-CA	-5.66	1.40	1.47
4	6-X	424	PRO	N-CA	-5.66	1.40	1.47
4	7-X	424	PRO	N-CA	-5.66	1.40	1.47
4	8-X	424	PRO	N-CA	-5.66	1.40	1.47
4	1-R	484	ASP	N-CA	5.66	1.53	1.46
4	2-R	484	ASP	N-CA	5.66	1.53	1.46
4	3-R	484	ASP	N-CA	5.66	1.53	1.46
4	4-R	484	ASP	N-CA	5.66	1.53	1.46
4	5-R	484	ASP	N-CA	5.66	1.53	1.46
4	6-R	484	ASP	N-CA	5.66	1.53	1.46
4	7-R	484	ASP	N-CA	5.66	1.53	1.46
4	8-R	484	ASP	N-CA	5.66	1.53	1.46
6	1-H	496	GLN	C-O	5.65	1.30	1.24
6	2-H	496	GLN	C-O	5.65	1.30	1.24
6	3-H	496	GLN	C-O	5.65	1.30	1.24
6	4-H	496	GLN	C-O	5.65	1.30	1.24
6	5-H	496	GLN	C-O	5.65	1.30	1.24
6	6-H	496	GLN	C-O	5.65	1.30	1.24
6	7-H	496	GLN	C-O	5.65	1.30	1.24
6	8-H	496	GLN	C-O	5.65	1.30	1.24
3	1-J	1466	ASN	CA-C	-5.64	1.45	1.52
3	2-J	1466	ASN	CA-C	-5.64	1.45	1.52
3	3-J	1466	ASN	CA-C	-5.64	1.45	1.52
3	4-J	1466	ASN	CA-C	-5.64	1.45	1.52
3	5-J	1466	ASN	CA-C	-5.64	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-J	1466	ASN	CA-C	-5.64	1.45	1.52
3	7-J	1466	ASN	CA-C	-5.64	1.45	1.52
3	8-J	1466	ASN	CA-C	-5.64	1.45	1.52
4	1-L	156	ASN	N-CA	-5.64	1.39	1.46
4	2-L	156	ASN	N-CA	-5.64	1.39	1.46
4	3-L	156	ASN	N-CA	-5.64	1.39	1.46
4	4-L	156	ASN	N-CA	-5.64	1.39	1.46
4	5-L	156	ASN	N-CA	-5.64	1.39	1.46
4	6-L	156	ASN	N-CA	-5.64	1.39	1.46
4	7-L	156	ASN	N-CA	-5.64	1.39	1.46
4	8-L	156	ASN	N-CA	-5.64	1.39	1.46
4	1-F	424	PRO	N-CA	-5.64	1.40	1.47
4	2-F	424	PRO	N-CA	-5.64	1.40	1.47
4	3-F	424	PRO	N-CA	-5.64	1.40	1.47
4	4-F	424	PRO	N-CA	-5.64	1.40	1.47
4	5-F	424	PRO	N-CA	-5.64	1.40	1.47
4	6-F	424	PRO	N-CA	-5.64	1.40	1.47
4	7-F	424	PRO	N-CA	-5.64	1.40	1.47
4	8-F	424	PRO	N-CA	-5.64	1.40	1.47
4	1-X	454	TYR	N-CA	5.64	1.53	1.46
4	2-X	454	TYR	N-CA	5.64	1.53	1.46
4	3-X	454	TYR	N-CA	5.64	1.53	1.46
4	4-X	454	TYR	N-CA	5.64	1.53	1.46
4	5-X	454	TYR	N-CA	5.64	1.53	1.46
4	6-X	454	TYR	N-CA	5.64	1.53	1.46
4	7-X	454	TYR	N-CA	5.64	1.53	1.46
4	8-X	454	TYR	N-CA	5.64	1.53	1.46
4	1-F	454	TYR	N-CA	5.63	1.53	1.46
4	2-F	454	TYR	N-CA	5.63	1.53	1.46
4	3-F	454	TYR	N-CA	5.63	1.53	1.46
4	4-F	454	TYR	N-CA	5.63	1.53	1.46
4	5-F	454	TYR	N-CA	5.63	1.53	1.46
4	6-F	454	TYR	N-CA	5.63	1.53	1.46
4	7-F	454	TYR	N-CA	5.63	1.53	1.46
4	8-F	454	TYR	N-CA	5.63	1.53	1.46
4	1-F	484	ASP	N-CA	5.63	1.53	1.46
4	2-F	484	ASP	N-CA	5.63	1.53	1.46
4	3-F	484	ASP	N-CA	5.63	1.53	1.46
4	4-F	484	ASP	N-CA	5.63	1.53	1.46
4	5-F	484	ASP	N-CA	5.63	1.53	1.46
4	6-F	484	ASP	N-CA	5.63	1.53	1.46
4	7-F	484	ASP	N-CA	5.63	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-F	484	ASP	N-CA	5.63	1.53	1.46
6	1-N	496	GLN	C-O	5.63	1.30	1.24
6	2-N	496	GLN	C-O	5.63	1.30	1.24
6	3-N	496	GLN	C-O	5.63	1.30	1.24
6	4-N	496	GLN	C-O	5.63	1.30	1.24
6	5-N	496	GLN	C-O	5.63	1.30	1.24
6	6-N	496	GLN	C-O	5.63	1.30	1.24
6	7-N	496	GLN	C-O	5.63	1.30	1.24
6	8-N	496	GLN	C-O	5.63	1.30	1.24
4	1-L	454	TYR	N-CA	5.63	1.53	1.46
6	1-T	395	PHE	C-N	5.63	1.40	1.34
4	2-L	454	TYR	N-CA	5.63	1.53	1.46
6	2-T	395	PHE	C-N	5.63	1.40	1.34
4	3-L	454	TYR	N-CA	5.63	1.53	1.46
6	3-T	395	PHE	C-N	5.63	1.40	1.34
4	4-L	454	TYR	N-CA	5.63	1.53	1.46
6	4-T	395	PHE	C-N	5.63	1.40	1.34
4	5-L	454	TYR	N-CA	5.63	1.53	1.46
6	5-T	395	PHE	C-N	5.63	1.40	1.34
4	6-L	454	TYR	N-CA	5.63	1.53	1.46
6	6-T	395	PHE	C-N	5.63	1.40	1.34
4	7-L	454	TYR	N-CA	5.63	1.53	1.46
6	7-T	395	PHE	C-N	5.63	1.40	1.34
4	8-L	454	TYR	N-CA	5.63	1.53	1.46
6	8-T	395	PHE	C-N	5.63	1.40	1.34
4	1-R	156	ASN	N-CA	-5.62	1.39	1.46
4	2-R	156	ASN	N-CA	-5.62	1.39	1.46
4	3-R	156	ASN	N-CA	-5.62	1.39	1.46
4	4-R	156	ASN	N-CA	-5.62	1.39	1.46
4	5-R	156	ASN	N-CA	-5.62	1.39	1.46
4	6-R	156	ASN	N-CA	-5.62	1.39	1.46
4	7-R	156	ASN	N-CA	-5.62	1.39	1.46
4	8-R	156	ASN	N-CA	-5.62	1.39	1.46
4	1-R	424	PRO	N-CA	-5.62	1.40	1.47
4	2-R	424	PRO	N-CA	-5.62	1.40	1.47
4	3-R	424	PRO	N-CA	-5.62	1.40	1.47
4	4-R	424	PRO	N-CA	-5.62	1.40	1.47
4	5-R	424	PRO	N-CA	-5.62	1.40	1.47
4	6-R	424	PRO	N-CA	-5.62	1.40	1.47
4	7-R	424	PRO	N-CA	-5.62	1.40	1.47
4	8-R	424	PRO	N-CA	-5.62	1.40	1.47
5	1-G	338	GLU	C-O	-5.62	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-G	338	GLU	C-O	-5.62	1.15	1.23
5	3-G	338	GLU	C-O	-5.62	1.15	1.23
5	4-G	338	GLU	C-O	-5.62	1.15	1.23
5	5-G	338	GLU	C-O	-5.62	1.15	1.23
5	6-G	338	GLU	C-O	-5.62	1.15	1.23
5	7-G	338	GLU	C-O	-5.62	1.15	1.23
5	8-G	338	GLU	C-O	-5.62	1.15	1.23
2	1-O	7	GLY	C-O	-5.61	1.16	1.23
3	1-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	2-O	7	GLY	C-O	-5.61	1.16	1.23
3	2-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	3-O	7	GLY	C-O	-5.61	1.16	1.23
3	3-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	4-O	7	GLY	C-O	-5.61	1.16	1.23
3	4-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	5-O	7	GLY	C-O	-5.61	1.16	1.23
3	5-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	6-O	7	GLY	C-O	-5.61	1.16	1.23
3	6-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	7-O	7	GLY	C-O	-5.61	1.16	1.23
3	7-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	8-O	7	GLY	C-O	-5.61	1.16	1.23
3	8-P	1466	ASN	CA-C	-5.61	1.45	1.52
2	1-C	7	GLY	C-O	-5.61	1.16	1.23
2	2-C	7	GLY	C-O	-5.61	1.16	1.23
2	3-C	7	GLY	C-O	-5.61	1.16	1.23
2	4-C	7	GLY	C-O	-5.61	1.16	1.23
2	5-C	7	GLY	C-O	-5.61	1.16	1.23
2	6-C	7	GLY	C-O	-5.61	1.16	1.23
2	7-C	7	GLY	C-O	-5.61	1.16	1.23
2	8-C	7	GLY	C-O	-5.61	1.16	1.23
2	1-I	7	GLY	C-O	-5.60	1.16	1.23
2	2-I	7	GLY	C-O	-5.60	1.16	1.23
2	3-I	7	GLY	C-O	-5.60	1.16	1.23
2	4-I	7	GLY	C-O	-5.60	1.16	1.23
2	5-I	7	GLY	C-O	-5.60	1.16	1.23
2	6-I	7	GLY	C-O	-5.60	1.16	1.23
2	7-I	7	GLY	C-O	-5.60	1.16	1.23
2	8-I	7	GLY	C-O	-5.60	1.16	1.23
4	1-X	468	LYS	N-CA	-5.60	1.39	1.46
4	2-X	468	LYS	N-CA	-5.60	1.39	1.46
4	3-X	468	LYS	N-CA	-5.60	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	468	LYS	N-CA	-5.60	1.39	1.46
4	5-X	468	LYS	N-CA	-5.60	1.39	1.46
4	6-X	468	LYS	N-CA	-5.60	1.39	1.46
4	7-X	468	LYS	N-CA	-5.60	1.39	1.46
4	8-X	468	LYS	N-CA	-5.60	1.39	1.46
3	1-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	1-S	338	GLU	C-O	-5.60	1.15	1.23
4	1-X	484	ASP	N-CA	5.60	1.53	1.46
5	1-Y	338	GLU	C-O	-5.60	1.15	1.23
3	2-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	2-S	338	GLU	C-O	-5.60	1.15	1.23
4	2-X	484	ASP	N-CA	5.60	1.53	1.46
5	2-Y	338	GLU	C-O	-5.60	1.15	1.23
3	3-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	3-S	338	GLU	C-O	-5.60	1.15	1.23
4	3-X	484	ASP	N-CA	5.60	1.53	1.46
5	3-Y	338	GLU	C-O	-5.60	1.15	1.23
3	4-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	4-S	338	GLU	C-O	-5.60	1.15	1.23
4	4-X	484	ASP	N-CA	5.60	1.53	1.46
5	4-Y	338	GLU	C-O	-5.60	1.15	1.23
3	5-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	5-S	338	GLU	C-O	-5.60	1.15	1.23
4	5-X	484	ASP	N-CA	5.60	1.53	1.46
5	5-Y	338	GLU	C-O	-5.60	1.15	1.23
3	6-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	6-S	338	GLU	C-O	-5.60	1.15	1.23
4	6-X	484	ASP	N-CA	5.60	1.53	1.46
5	6-Y	338	GLU	C-O	-5.60	1.15	1.23
3	7-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	7-S	338	GLU	C-O	-5.60	1.15	1.23
4	7-X	484	ASP	N-CA	5.60	1.53	1.46
5	7-Y	338	GLU	C-O	-5.60	1.15	1.23
3	8-D	1466	ASN	CA-C	-5.60	1.45	1.52
5	8-S	338	GLU	C-O	-5.60	1.15	1.23
4	8-X	484	ASP	N-CA	5.60	1.53	1.46
5	8-Y	338	GLU	C-O	-5.60	1.15	1.23
6	1-N	395	PHE	CA-CB	-5.60	1.44	1.53
6	2-N	395	PHE	CA-CB	-5.60	1.44	1.53
6	3-N	395	PHE	CA-CB	-5.60	1.44	1.53
6	4-N	395	PHE	CA-CB	-5.60	1.44	1.53
6	5-N	395	PHE	CA-CB	-5.60	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-N	395	PHE	CA-CB	-5.60	1.44	1.53
6	7-N	395	PHE	CA-CB	-5.60	1.44	1.53
6	8-N	395	PHE	CA-CB	-5.60	1.44	1.53
5	1-M	338	GLU	C-O	-5.59	1.15	1.23
5	2-M	338	GLU	C-O	-5.59	1.15	1.23
5	3-M	338	GLU	C-O	-5.59	1.15	1.23
5	4-M	338	GLU	C-O	-5.59	1.15	1.23
5	5-M	338	GLU	C-O	-5.59	1.15	1.23
5	6-M	338	GLU	C-O	-5.59	1.15	1.23
5	7-M	338	GLU	C-O	-5.59	1.15	1.23
5	8-M	338	GLU	C-O	-5.59	1.15	1.23
6	1-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	2-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	3-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	4-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	5-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	6-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	7-Z	391	GLN	CA-CB	-5.59	1.44	1.53
6	8-Z	391	GLN	CA-CB	-5.59	1.44	1.53
4	1-X	156	ASN	N-CA	-5.59	1.39	1.46
4	2-X	156	ASN	N-CA	-5.59	1.39	1.46
4	3-X	156	ASN	N-CA	-5.59	1.39	1.46
4	4-X	156	ASN	N-CA	-5.59	1.39	1.46
4	5-X	156	ASN	N-CA	-5.59	1.39	1.46
4	6-X	156	ASN	N-CA	-5.59	1.39	1.46
4	7-X	156	ASN	N-CA	-5.59	1.39	1.46
4	8-X	156	ASN	N-CA	-5.59	1.39	1.46
6	1-T	496	GLN	C-O	5.58	1.30	1.24
6	2-T	496	GLN	C-O	5.58	1.30	1.24
6	3-T	496	GLN	C-O	5.58	1.30	1.24
6	4-T	496	GLN	C-O	5.58	1.30	1.24
6	5-T	496	GLN	C-O	5.58	1.30	1.24
6	6-T	496	GLN	C-O	5.58	1.30	1.24
6	7-T	496	GLN	C-O	5.58	1.30	1.24
6	8-T	496	GLN	C-O	5.58	1.30	1.24
3	1-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	1-X	143	GLN	CA-CB	5.58	1.63	1.53
3	2-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	2-X	143	GLN	CA-CB	5.58	1.63	1.53
3	3-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	3-X	143	GLN	CA-CB	5.58	1.63	1.53
3	4-P	1503	ILE	CA-C	-5.58	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-X	143	GLN	CA-CB	5.58	1.63	1.53
3	5-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	5-X	143	GLN	CA-CB	5.58	1.63	1.53
3	6-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	6-X	143	GLN	CA-CB	5.58	1.63	1.53
3	7-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	7-X	143	GLN	CA-CB	5.58	1.63	1.53
3	8-P	1503	ILE	CA-C	-5.58	1.45	1.52
4	8-X	143	GLN	CA-CB	5.58	1.63	1.53
6	1-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	2-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	3-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	4-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	5-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	6-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	7-H	391	GLN	CA-CB	-5.58	1.44	1.53
6	8-H	391	GLN	CA-CB	-5.58	1.44	1.53
4	1-F	453	TYR	C-N	5.58	1.41	1.33
6	1-Z	496	GLN	C-O	5.58	1.30	1.24
4	2-F	453	TYR	C-N	5.58	1.41	1.33
6	2-Z	496	GLN	C-O	5.58	1.30	1.24
4	3-F	453	TYR	C-N	5.58	1.41	1.33
6	3-Z	496	GLN	C-O	5.58	1.30	1.24
4	4-F	453	TYR	C-N	5.58	1.41	1.33
6	4-Z	496	GLN	C-O	5.58	1.30	1.24
4	5-F	453	TYR	C-N	5.58	1.41	1.33
6	5-Z	496	GLN	C-O	5.58	1.30	1.24
4	6-F	453	TYR	C-N	5.58	1.41	1.33
6	6-Z	496	GLN	C-O	5.58	1.30	1.24
4	7-F	453	TYR	C-N	5.58	1.41	1.33
6	7-Z	496	GLN	C-O	5.58	1.30	1.24
4	8-F	453	TYR	C-N	5.58	1.41	1.33
6	8-Z	496	GLN	C-O	5.58	1.30	1.24
3	1-D	1487	ASP	C-O	5.58	1.31	1.24
6	1-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	2-D	1487	ASP	C-O	5.58	1.31	1.24
6	2-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	3-D	1487	ASP	C-O	5.58	1.31	1.24
6	3-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	4-D	1487	ASP	C-O	5.58	1.31	1.24
6	4-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	5-D	1487	ASP	C-O	5.58	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	5-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	6-D	1487	ASP	C-O	5.58	1.31	1.24
6	6-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	7-D	1487	ASP	C-O	5.58	1.31	1.24
6	7-T	391	GLN	CA-CB	-5.58	1.44	1.53
3	8-D	1487	ASP	C-O	5.58	1.31	1.24
6	8-T	391	GLN	CA-CB	-5.58	1.44	1.53
4	1-F	468	LYS	N-CA	-5.57	1.39	1.46
4	1-X	444	PHE	C-O	5.57	1.30	1.24
4	1-X	459	LEU	N-CA	-5.57	1.39	1.46
4	2-F	468	LYS	N-CA	-5.57	1.39	1.46
4	2-X	444	PHE	C-O	5.57	1.30	1.24
4	2-X	459	LEU	N-CA	-5.57	1.39	1.46
4	3-F	468	LYS	N-CA	-5.57	1.39	1.46
4	3-X	444	PHE	C-O	5.57	1.30	1.24
4	3-X	459	LEU	N-CA	-5.57	1.39	1.46
4	4-F	468	LYS	N-CA	-5.57	1.39	1.46
4	4-X	444	PHE	C-O	5.57	1.30	1.24
4	4-X	459	LEU	N-CA	-5.57	1.39	1.46
4	5-F	468	LYS	N-CA	-5.57	1.39	1.46
4	5-X	444	PHE	C-O	5.57	1.30	1.24
4	5-X	459	LEU	N-CA	-5.57	1.39	1.46
4	6-F	468	LYS	N-CA	-5.57	1.39	1.46
4	6-X	444	PHE	C-O	5.57	1.30	1.24
4	6-X	459	LEU	N-CA	-5.57	1.39	1.46
4	7-F	468	LYS	N-CA	-5.57	1.39	1.46
4	7-X	444	PHE	C-O	5.57	1.30	1.24
4	7-X	459	LEU	N-CA	-5.57	1.39	1.46
4	8-F	468	LYS	N-CA	-5.57	1.39	1.46
4	8-X	444	PHE	C-O	5.57	1.30	1.24
4	8-X	459	LEU	N-CA	-5.57	1.39	1.46
4	1-L	484	ASP	N-CA	5.57	1.53	1.46
2	1-U	7	GLY	C-O	-5.57	1.16	1.23
4	2-L	484	ASP	N-CA	5.57	1.53	1.46
2	2-U	7	GLY	C-O	-5.57	1.16	1.23
4	3-L	484	ASP	N-CA	5.57	1.53	1.46
2	3-U	7	GLY	C-O	-5.57	1.16	1.23
4	4-L	484	ASP	N-CA	5.57	1.53	1.46
2	4-U	7	GLY	C-O	-5.57	1.16	1.23
4	5-L	484	ASP	N-CA	5.57	1.53	1.46
2	5-U	7	GLY	C-O	-5.57	1.16	1.23
4	6-L	484	ASP	N-CA	5.57	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	6-U	7	GLY	C-O	-5.57	1.16	1.23
4	7-L	484	ASP	N-CA	5.57	1.53	1.46
2	7-U	7	GLY	C-O	-5.57	1.16	1.23
4	8-L	484	ASP	N-CA	5.57	1.53	1.46
2	8-U	7	GLY	C-O	-5.57	1.16	1.23
4	1-F	316	ASN	CA-C	-5.57	1.46	1.53
3	1-J	1519	SER	C-O	5.57	1.30	1.24
6	1-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	1-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	2-F	316	ASN	CA-C	-5.57	1.46	1.53
3	2-J	1519	SER	C-O	5.57	1.30	1.24
6	2-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	2-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	3-F	316	ASN	CA-C	-5.57	1.46	1.53
3	3-J	1519	SER	C-O	5.57	1.30	1.24
6	3-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	3-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	4-F	316	ASN	CA-C	-5.57	1.46	1.53
3	4-J	1519	SER	C-O	5.57	1.30	1.24
6	4-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	4-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	5-F	316	ASN	CA-C	-5.57	1.46	1.53
3	5-J	1519	SER	C-O	5.57	1.30	1.24
6	5-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	5-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	6-F	316	ASN	CA-C	-5.57	1.46	1.53
3	6-J	1519	SER	C-O	5.57	1.30	1.24
6	6-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	6-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	7-F	316	ASN	CA-C	-5.57	1.46	1.53
3	7-J	1519	SER	C-O	5.57	1.30	1.24
6	7-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	7-V	1503	ILE	CA-C	-5.57	1.45	1.52
4	8-F	316	ASN	CA-C	-5.57	1.46	1.53
3	8-J	1519	SER	C-O	5.57	1.30	1.24
6	8-N	391	GLN	CA-CB	-5.57	1.44	1.53
3	8-V	1503	ILE	CA-C	-5.57	1.45	1.52
3	1-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	1-P	1487	ASP	C-O	5.57	1.30	1.24
4	1-R	468	LYS	N-CA	-5.57	1.39	1.46
3	2-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	2-P	1487	ASP	C-O	5.57	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	468	LYS	N-CA	-5.57	1.39	1.46
3	3-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	3-P	1487	ASP	C-O	5.57	1.30	1.24
4	3-R	468	LYS	N-CA	-5.57	1.39	1.46
3	4-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	4-P	1487	ASP	C-O	5.57	1.30	1.24
4	4-R	468	LYS	N-CA	-5.57	1.39	1.46
3	5-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	5-P	1487	ASP	C-O	5.57	1.30	1.24
4	5-R	468	LYS	N-CA	-5.57	1.39	1.46
3	6-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	6-P	1487	ASP	C-O	5.57	1.30	1.24
4	6-R	468	LYS	N-CA	-5.57	1.39	1.46
3	7-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	7-P	1487	ASP	C-O	5.57	1.30	1.24
4	7-R	468	LYS	N-CA	-5.57	1.39	1.46
3	8-D	1503	ILE	CA-C	-5.57	1.45	1.52
3	8-P	1487	ASP	C-O	5.57	1.30	1.24
4	8-R	468	LYS	N-CA	-5.57	1.39	1.46
4	1-L	444	PHE	C-O	5.57	1.30	1.24
6	1-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	2-L	444	PHE	C-O	5.57	1.30	1.24
6	2-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	3-L	444	PHE	C-O	5.57	1.30	1.24
6	3-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	4-L	444	PHE	C-O	5.57	1.30	1.24
6	4-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	5-L	444	PHE	C-O	5.57	1.30	1.24
6	5-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	6-L	444	PHE	C-O	5.57	1.30	1.24
6	6-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	7-L	444	PHE	C-O	5.57	1.30	1.24
6	7-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	8-L	444	PHE	C-O	5.57	1.30	1.24
6	8-T	395	PHE	CA-CB	-5.57	1.44	1.53
4	1-R	444	PHE	C-O	5.57	1.30	1.24
4	2-R	444	PHE	C-O	5.57	1.30	1.24
4	3-R	444	PHE	C-O	5.57	1.30	1.24
4	4-R	444	PHE	C-O	5.57	1.30	1.24
4	5-R	444	PHE	C-O	5.57	1.30	1.24
4	6-R	444	PHE	C-O	5.57	1.30	1.24
4	7-R	444	PHE	C-O	5.57	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	444	PHE	C-O	5.57	1.30	1.24
5	1-S	320	LYS	CA-CB	5.56	1.62	1.53
5	2-S	320	LYS	CA-CB	5.56	1.62	1.53
5	3-S	320	LYS	CA-CB	5.56	1.62	1.53
5	4-S	320	LYS	CA-CB	5.56	1.62	1.53
5	5-S	320	LYS	CA-CB	5.56	1.62	1.53
5	6-S	320	LYS	CA-CB	5.56	1.62	1.53
5	7-S	320	LYS	CA-CB	5.56	1.62	1.53
5	8-S	320	LYS	CA-CB	5.56	1.62	1.53
3	1-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	1-L	453	TYR	C-N	5.56	1.41	1.33
5	1-M	320	LYS	CA-CB	5.56	1.62	1.53
3	2-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	2-L	453	TYR	C-N	5.56	1.41	1.33
5	2-M	320	LYS	CA-CB	5.56	1.62	1.53
3	3-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	3-L	453	TYR	C-N	5.56	1.41	1.33
5	3-M	320	LYS	CA-CB	5.56	1.62	1.53
3	4-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	4-L	453	TYR	C-N	5.56	1.41	1.33
5	4-M	320	LYS	CA-CB	5.56	1.62	1.53
3	5-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	5-L	453	TYR	C-N	5.56	1.41	1.33
5	5-M	320	LYS	CA-CB	5.56	1.62	1.53
3	6-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	6-L	453	TYR	C-N	5.56	1.41	1.33
5	6-M	320	LYS	CA-CB	5.56	1.62	1.53
3	7-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	7-L	453	TYR	C-N	5.56	1.41	1.33
5	7-M	320	LYS	CA-CB	5.56	1.62	1.53
3	8-J	1503	ILE	CA-C	-5.56	1.45	1.52
4	8-L	453	TYR	C-N	5.56	1.41	1.33
5	8-M	320	LYS	CA-CB	5.56	1.62	1.53
3	1-J	1487	ASP	C-O	5.56	1.30	1.24
3	2-J	1487	ASP	C-O	5.56	1.30	1.24
3	3-J	1487	ASP	C-O	5.56	1.30	1.24
3	4-J	1487	ASP	C-O	5.56	1.30	1.24
3	5-J	1487	ASP	C-O	5.56	1.30	1.24
3	6-J	1487	ASP	C-O	5.56	1.30	1.24
3	7-J	1487	ASP	C-O	5.56	1.30	1.24
3	8-J	1487	ASP	C-O	5.56	1.30	1.24
4	1-L	143	GLN	CA-CB	5.56	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-L	316	ASN	CA-C	-5.56	1.46	1.53
4	2-L	143	GLN	CA-CB	5.56	1.63	1.53
4	2-L	316	ASN	CA-C	-5.56	1.46	1.53
4	3-L	143	GLN	CA-CB	5.56	1.63	1.53
4	3-L	316	ASN	CA-C	-5.56	1.46	1.53
4	4-L	143	GLN	CA-CB	5.56	1.63	1.53
4	4-L	316	ASN	CA-C	-5.56	1.46	1.53
4	5-L	143	GLN	CA-CB	5.56	1.63	1.53
4	5-L	316	ASN	CA-C	-5.56	1.46	1.53
4	6-L	143	GLN	CA-CB	5.56	1.63	1.53
4	6-L	316	ASN	CA-C	-5.56	1.46	1.53
4	7-L	143	GLN	CA-CB	5.56	1.63	1.53
4	7-L	316	ASN	CA-C	-5.56	1.46	1.53
4	8-L	143	GLN	CA-CB	5.56	1.63	1.53
4	8-L	316	ASN	CA-C	-5.56	1.46	1.53
3	1-P	1519	SER	C-O	5.55	1.30	1.24
4	1-R	316	ASN	CA-C	-5.55	1.46	1.53
3	2-P	1519	SER	C-O	5.55	1.30	1.24
4	2-R	316	ASN	CA-C	-5.55	1.46	1.53
3	3-P	1519	SER	C-O	5.55	1.30	1.24
4	3-R	316	ASN	CA-C	-5.55	1.46	1.53
3	4-P	1519	SER	C-O	5.55	1.30	1.24
4	4-R	316	ASN	CA-C	-5.55	1.46	1.53
3	5-P	1519	SER	C-O	5.55	1.30	1.24
4	5-R	316	ASN	CA-C	-5.55	1.46	1.53
3	6-P	1519	SER	C-O	5.55	1.30	1.24
4	6-R	316	ASN	CA-C	-5.55	1.46	1.53
3	7-P	1519	SER	C-O	5.55	1.30	1.24
4	7-R	316	ASN	CA-C	-5.55	1.46	1.53
3	8-P	1519	SER	C-O	5.55	1.30	1.24
4	8-R	316	ASN	CA-C	-5.55	1.46	1.53
6	1-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	2-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	3-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	4-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	5-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	6-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	7-Z	395	PHE	CA-CB	-5.55	1.44	1.53
6	8-Z	395	PHE	CA-CB	-5.55	1.44	1.53
4	1-F	459	LEU	N-CA	-5.55	1.39	1.46
4	2-F	459	LEU	N-CA	-5.55	1.39	1.46
4	3-F	459	LEU	N-CA	-5.55	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-F	459	LEU	N-CA	-5.55	1.39	1.46
4	5-F	459	LEU	N-CA	-5.55	1.39	1.46
4	6-F	459	LEU	N-CA	-5.55	1.39	1.46
4	7-F	459	LEU	N-CA	-5.55	1.39	1.46
4	8-F	459	LEU	N-CA	-5.55	1.39	1.46
4	1-F	444	PHE	C-O	5.55	1.30	1.24
6	1-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	2-F	444	PHE	C-O	5.55	1.30	1.24
6	2-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	3-F	444	PHE	C-O	5.55	1.30	1.24
6	3-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	4-F	444	PHE	C-O	5.55	1.30	1.24
6	4-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	5-F	444	PHE	C-O	5.55	1.30	1.24
6	5-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	6-F	444	PHE	C-O	5.55	1.30	1.24
6	6-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	7-F	444	PHE	C-O	5.55	1.30	1.24
6	7-H	395	PHE	CA-CB	-5.55	1.44	1.53
4	8-F	444	PHE	C-O	5.55	1.30	1.24
6	8-H	395	PHE	CA-CB	-5.55	1.44	1.53
6	1-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	2-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	3-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	4-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	5-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	6-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	7-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	8-Z	381	LYS	CA-C	-5.54	1.45	1.52
6	1-N	381	LYS	CA-C	-5.54	1.45	1.52
2	1-U	485	LEU	N-CA	-5.54	1.39	1.46
6	2-N	381	LYS	CA-C	-5.54	1.45	1.52
2	2-U	485	LEU	N-CA	-5.54	1.39	1.46
6	3-N	381	LYS	CA-C	-5.54	1.45	1.52
2	3-U	485	LEU	N-CA	-5.54	1.39	1.46
6	4-N	381	LYS	CA-C	-5.54	1.45	1.52
2	4-U	485	LEU	N-CA	-5.54	1.39	1.46
6	5-N	381	LYS	CA-C	-5.54	1.45	1.52
2	5-U	485	LEU	N-CA	-5.54	1.39	1.46
6	6-N	381	LYS	CA-C	-5.54	1.45	1.52
2	6-U	485	LEU	N-CA	-5.54	1.39	1.46
6	7-N	381	LYS	CA-C	-5.54	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7-U	485	LEU	N-CA	-5.54	1.39	1.46
6	8-N	381	LYS	CA-C	-5.54	1.45	1.52
2	8-U	485	LEU	N-CA	-5.54	1.39	1.46
4	1-R	453	TYR	C-N	5.54	1.41	1.33
4	2-R	453	TYR	C-N	5.54	1.41	1.33
4	3-R	453	TYR	C-N	5.54	1.41	1.33
4	4-R	453	TYR	C-N	5.54	1.41	1.33
4	5-R	453	TYR	C-N	5.54	1.41	1.33
4	6-R	453	TYR	C-N	5.54	1.41	1.33
4	7-R	453	TYR	C-N	5.54	1.41	1.33
4	8-R	453	TYR	C-N	5.54	1.41	1.33
3	1-V	1487	ASP	C-O	5.53	1.30	1.24
3	2-V	1487	ASP	C-O	5.53	1.30	1.24
3	3-V	1487	ASP	C-O	5.53	1.30	1.24
3	4-V	1487	ASP	C-O	5.53	1.30	1.24
3	5-V	1487	ASP	C-O	5.53	1.30	1.24
3	6-V	1487	ASP	C-O	5.53	1.30	1.24
3	7-V	1487	ASP	C-O	5.53	1.30	1.24
3	8-V	1487	ASP	C-O	5.53	1.30	1.24
2	1-C	485	LEU	N-CA	-5.53	1.39	1.46
6	1-N	380	GLU	N-CA	-5.53	1.39	1.46
2	2-C	485	LEU	N-CA	-5.53	1.39	1.46
6	2-N	380	GLU	N-CA	-5.53	1.39	1.46
2	3-C	485	LEU	N-CA	-5.53	1.39	1.46
6	3-N	380	GLU	N-CA	-5.53	1.39	1.46
2	4-C	485	LEU	N-CA	-5.53	1.39	1.46
6	4-N	380	GLU	N-CA	-5.53	1.39	1.46
2	5-C	485	LEU	N-CA	-5.53	1.39	1.46
6	5-N	380	GLU	N-CA	-5.53	1.39	1.46
2	6-C	485	LEU	N-CA	-5.53	1.39	1.46
6	6-N	380	GLU	N-CA	-5.53	1.39	1.46
2	7-C	485	LEU	N-CA	-5.53	1.39	1.46
6	7-N	380	GLU	N-CA	-5.53	1.39	1.46
2	8-C	485	LEU	N-CA	-5.53	1.39	1.46
6	8-N	380	GLU	N-CA	-5.53	1.39	1.46
4	1-L	468	LYS	N-CA	-5.53	1.39	1.46
4	1-R	484	ASP	CA-CB	5.53	1.61	1.53
4	1-X	484	ASP	CA-CB	5.53	1.61	1.53
5	1-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	2-L	468	LYS	N-CA	-5.53	1.39	1.46
4	2-R	484	ASP	CA-CB	5.53	1.61	1.53
4	2-X	484	ASP	CA-CB	5.53	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	3-L	468	LYS	N-CA	-5.53	1.39	1.46
4	3-R	484	ASP	CA-CB	5.53	1.61	1.53
4	3-X	484	ASP	CA-CB	5.53	1.61	1.53
5	3-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	4-L	468	LYS	N-CA	-5.53	1.39	1.46
4	4-R	484	ASP	CA-CB	5.53	1.61	1.53
4	4-X	484	ASP	CA-CB	5.53	1.61	1.53
5	4-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	5-L	468	LYS	N-CA	-5.53	1.39	1.46
4	5-R	484	ASP	CA-CB	5.53	1.61	1.53
4	5-X	484	ASP	CA-CB	5.53	1.61	1.53
5	5-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	6-L	468	LYS	N-CA	-5.53	1.39	1.46
4	6-R	484	ASP	CA-CB	5.53	1.61	1.53
4	6-X	484	ASP	CA-CB	5.53	1.61	1.53
5	6-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	7-L	468	LYS	N-CA	-5.53	1.39	1.46
4	7-R	484	ASP	CA-CB	5.53	1.61	1.53
4	7-X	484	ASP	CA-CB	5.53	1.61	1.53
5	7-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	8-L	468	LYS	N-CA	-5.53	1.39	1.46
4	8-R	484	ASP	CA-CB	5.53	1.61	1.53
4	8-X	484	ASP	CA-CB	5.53	1.61	1.53
5	8-Y	320	LYS	CA-CB	5.53	1.62	1.53
4	1-R	143	GLN	CA-CB	5.53	1.63	1.53
4	2-R	143	GLN	CA-CB	5.53	1.63	1.53
4	3-R	143	GLN	CA-CB	5.53	1.63	1.53
4	4-R	143	GLN	CA-CB	5.53	1.63	1.53
4	5-R	143	GLN	CA-CB	5.53	1.63	1.53
4	6-R	143	GLN	CA-CB	5.53	1.63	1.53
4	7-R	143	GLN	CA-CB	5.53	1.63	1.53
4	8-R	143	GLN	CA-CB	5.53	1.63	1.53
4	1-F	143	GLN	CA-CB	5.52	1.63	1.53
5	1-M	412	VAL	N-CA	-5.52	1.39	1.46
4	2-F	143	GLN	CA-CB	5.52	1.63	1.53
5	2-M	412	VAL	N-CA	-5.52	1.39	1.46
4	3-F	143	GLN	CA-CB	5.52	1.63	1.53
5	3-M	412	VAL	N-CA	-5.52	1.39	1.46
4	4-F	143	GLN	CA-CB	5.52	1.63	1.53
5	4-M	412	VAL	N-CA	-5.52	1.39	1.46
4	5-F	143	GLN	CA-CB	5.52	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-M	412	VAL	N-CA	-5.52	1.39	1.46
4	6-F	143	GLN	CA-CB	5.52	1.63	1.53
5	6-M	412	VAL	N-CA	-5.52	1.39	1.46
4	7-F	143	GLN	CA-CB	5.52	1.63	1.53
5	7-M	412	VAL	N-CA	-5.52	1.39	1.46
4	8-F	143	GLN	CA-CB	5.52	1.63	1.53
5	8-M	412	VAL	N-CA	-5.52	1.39	1.46
4	1-L	484	ASP	CA-CB	5.52	1.61	1.53
2	1-O	485	LEU	N-CA	-5.52	1.39	1.46
4	2-L	484	ASP	CA-CB	5.52	1.61	1.53
2	2-O	485	LEU	N-CA	-5.52	1.39	1.46
4	3-L	484	ASP	CA-CB	5.52	1.61	1.53
2	3-O	485	LEU	N-CA	-5.52	1.39	1.46
4	4-L	484	ASP	CA-CB	5.52	1.61	1.53
2	4-O	485	LEU	N-CA	-5.52	1.39	1.46
4	5-L	484	ASP	CA-CB	5.52	1.61	1.53
2	5-O	485	LEU	N-CA	-5.52	1.39	1.46
4	6-L	484	ASP	CA-CB	5.52	1.61	1.53
2	6-O	485	LEU	N-CA	-5.52	1.39	1.46
4	7-L	484	ASP	CA-CB	5.52	1.61	1.53
2	7-O	485	LEU	N-CA	-5.52	1.39	1.46
4	8-L	484	ASP	CA-CB	5.52	1.61	1.53
2	8-O	485	LEU	N-CA	-5.52	1.39	1.46
5	1-G	320	LYS	CA-CB	5.52	1.62	1.53
4	1-L	459	LEU	N-CA	-5.52	1.39	1.46
5	2-G	320	LYS	CA-CB	5.52	1.62	1.53
4	2-L	459	LEU	N-CA	-5.52	1.39	1.46
5	3-G	320	LYS	CA-CB	5.52	1.62	1.53
4	3-L	459	LEU	N-CA	-5.52	1.39	1.46
5	4-G	320	LYS	CA-CB	5.52	1.62	1.53
4	4-L	459	LEU	N-CA	-5.52	1.39	1.46
5	5-G	320	LYS	CA-CB	5.52	1.62	1.53
4	5-L	459	LEU	N-CA	-5.52	1.39	1.46
5	6-G	320	LYS	CA-CB	5.52	1.62	1.53
4	6-L	459	LEU	N-CA	-5.52	1.39	1.46
5	7-G	320	LYS	CA-CB	5.52	1.62	1.53
4	7-L	459	LEU	N-CA	-5.52	1.39	1.46
5	8-G	320	LYS	CA-CB	5.52	1.62	1.53
4	8-L	459	LEU	N-CA	-5.52	1.39	1.46
3	1-D	1519	SER	C-O	5.51	1.30	1.24
3	2-D	1519	SER	C-O	5.51	1.30	1.24
3	3-D	1519	SER	C-O	5.51	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-D	1519	SER	C-O	5.51	1.30	1.24
3	5-D	1519	SER	C-O	5.51	1.30	1.24
3	6-D	1519	SER	C-O	5.51	1.30	1.24
3	7-D	1519	SER	C-O	5.51	1.30	1.24
3	8-D	1519	SER	C-O	5.51	1.30	1.24
4	1-L	474	LEU	CA-C	-5.51	1.45	1.52
4	2-L	474	LEU	CA-C	-5.51	1.45	1.52
4	3-L	474	LEU	CA-C	-5.51	1.45	1.52
4	4-L	474	LEU	CA-C	-5.51	1.45	1.52
4	5-L	474	LEU	CA-C	-5.51	1.45	1.52
4	6-L	474	LEU	CA-C	-5.51	1.45	1.52
4	7-L	474	LEU	CA-C	-5.51	1.45	1.52
4	8-L	474	LEU	CA-C	-5.51	1.45	1.52
4	1-F	484	ASP	CA-CB	5.50	1.61	1.53
2	1-I	485	LEU	N-CA	-5.50	1.39	1.46
4	1-X	453	TYR	C-N	5.50	1.41	1.33
4	2-F	484	ASP	CA-CB	5.50	1.61	1.53
2	2-I	485	LEU	N-CA	-5.50	1.39	1.46
4	2-X	453	TYR	C-N	5.50	1.41	1.33
4	3-F	484	ASP	CA-CB	5.50	1.61	1.53
2	3-I	485	LEU	N-CA	-5.50	1.39	1.46
4	3-X	453	TYR	C-N	5.50	1.41	1.33
4	4-F	484	ASP	CA-CB	5.50	1.61	1.53
2	4-I	485	LEU	N-CA	-5.50	1.39	1.46
4	4-X	453	TYR	C-N	5.50	1.41	1.33
4	5-F	484	ASP	CA-CB	5.50	1.61	1.53
2	5-I	485	LEU	N-CA	-5.50	1.39	1.46
4	5-X	453	TYR	C-N	5.50	1.41	1.33
4	6-F	484	ASP	CA-CB	5.50	1.61	1.53
2	6-I	485	LEU	N-CA	-5.50	1.39	1.46
4	6-X	453	TYR	C-N	5.50	1.41	1.33
4	7-F	484	ASP	CA-CB	5.50	1.61	1.53
2	7-I	485	LEU	N-CA	-5.50	1.39	1.46
4	7-X	453	TYR	C-N	5.50	1.41	1.33
4	8-F	484	ASP	CA-CB	5.50	1.61	1.53
2	8-I	485	LEU	N-CA	-5.50	1.39	1.46
4	8-X	453	TYR	C-N	5.50	1.41	1.33
6	1-H	381	LYS	CA-C	-5.50	1.45	1.52
6	2-H	381	LYS	CA-C	-5.50	1.45	1.52
6	3-H	381	LYS	CA-C	-5.50	1.45	1.52
6	4-H	381	LYS	CA-C	-5.50	1.45	1.52
6	5-H	381	LYS	CA-C	-5.50	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-H	381	LYS	CA-C	-5.50	1.45	1.52
6	7-H	381	LYS	CA-C	-5.50	1.45	1.52
6	8-H	381	LYS	CA-C	-5.50	1.45	1.52
4	1-X	316	ASN	CA-C	-5.50	1.46	1.53
4	2-X	316	ASN	CA-C	-5.50	1.46	1.53
4	3-X	316	ASN	CA-C	-5.50	1.46	1.53
4	4-X	316	ASN	CA-C	-5.50	1.46	1.53
4	5-X	316	ASN	CA-C	-5.50	1.46	1.53
4	6-X	316	ASN	CA-C	-5.50	1.46	1.53
4	7-X	316	ASN	CA-C	-5.50	1.46	1.53
4	8-X	316	ASN	CA-C	-5.50	1.46	1.53
4	1-L	308	ILE	CA-C	-5.50	1.45	1.52
4	1-X	474	LEU	CA-C	-5.50	1.45	1.52
4	2-L	308	ILE	CA-C	-5.50	1.45	1.52
4	2-X	474	LEU	CA-C	-5.50	1.45	1.52
4	3-L	308	ILE	CA-C	-5.50	1.45	1.52
4	3-X	474	LEU	CA-C	-5.50	1.45	1.52
4	4-L	308	ILE	CA-C	-5.50	1.45	1.52
4	4-X	474	LEU	CA-C	-5.50	1.45	1.52
4	5-L	308	ILE	CA-C	-5.50	1.45	1.52
4	5-X	474	LEU	CA-C	-5.50	1.45	1.52
4	6-L	308	ILE	CA-C	-5.50	1.45	1.52
4	6-X	474	LEU	CA-C	-5.50	1.45	1.52
4	7-L	308	ILE	CA-C	-5.50	1.45	1.52
4	7-X	474	LEU	CA-C	-5.50	1.45	1.52
4	8-L	308	ILE	CA-C	-5.50	1.45	1.52
4	8-X	474	LEU	CA-C	-5.50	1.45	1.52
3	1-V	1519	SER	C-O	5.49	1.30	1.24
4	1-X	308	ILE	CA-C	-5.49	1.45	1.52
3	2-V	1519	SER	C-O	5.49	1.30	1.24
4	2-X	308	ILE	CA-C	-5.49	1.45	1.52
3	3-V	1519	SER	C-O	5.49	1.30	1.24
4	3-X	308	ILE	CA-C	-5.49	1.45	1.52
3	4-V	1519	SER	C-O	5.49	1.30	1.24
4	4-X	308	ILE	CA-C	-5.49	1.45	1.52
3	5-V	1519	SER	C-O	5.49	1.30	1.24
4	5-X	308	ILE	CA-C	-5.49	1.45	1.52
3	6-V	1519	SER	C-O	5.49	1.30	1.24
4	6-X	308	ILE	CA-C	-5.49	1.45	1.52
3	7-V	1519	SER	C-O	5.49	1.30	1.24
4	7-X	308	ILE	CA-C	-5.49	1.45	1.52
3	8-V	1519	SER	C-O	5.49	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	308	ILE	CA-C	-5.49	1.45	1.52
4	1-R	474	LEU	CA-C	-5.49	1.45	1.52
4	2-R	474	LEU	CA-C	-5.49	1.45	1.52
4	3-R	474	LEU	CA-C	-5.49	1.45	1.52
4	4-R	474	LEU	CA-C	-5.49	1.45	1.52
4	5-R	474	LEU	CA-C	-5.49	1.45	1.52
4	6-R	474	LEU	CA-C	-5.49	1.45	1.52
4	7-R	474	LEU	CA-C	-5.49	1.45	1.52
4	8-R	474	LEU	CA-C	-5.49	1.45	1.52
6	1-T	381	LYS	CA-C	-5.49	1.45	1.52
6	2-T	381	LYS	CA-C	-5.49	1.45	1.52
6	3-T	381	LYS	CA-C	-5.49	1.45	1.52
6	4-T	381	LYS	CA-C	-5.49	1.45	1.52
6	5-T	381	LYS	CA-C	-5.49	1.45	1.52
6	6-T	381	LYS	CA-C	-5.49	1.45	1.52
6	7-T	381	LYS	CA-C	-5.49	1.45	1.52
6	8-T	381	LYS	CA-C	-5.49	1.45	1.52
4	1-F	308	ILE	CA-C	-5.48	1.45	1.52
4	1-R	459	LEU	N-CA	-5.48	1.39	1.46
4	2-F	308	ILE	CA-C	-5.48	1.45	1.52
4	2-R	459	LEU	N-CA	-5.48	1.39	1.46
4	3-F	308	ILE	CA-C	-5.48	1.45	1.52
4	3-R	459	LEU	N-CA	-5.48	1.39	1.46
4	4-F	308	ILE	CA-C	-5.48	1.45	1.52
4	4-R	459	LEU	N-CA	-5.48	1.39	1.46
4	5-F	308	ILE	CA-C	-5.48	1.45	1.52
4	5-R	459	LEU	N-CA	-5.48	1.39	1.46
4	6-F	308	ILE	CA-C	-5.48	1.45	1.52
4	6-R	459	LEU	N-CA	-5.48	1.39	1.46
4	7-F	308	ILE	CA-C	-5.48	1.45	1.52
4	7-R	459	LEU	N-CA	-5.48	1.39	1.46
4	8-F	308	ILE	CA-C	-5.48	1.45	1.52
4	8-R	459	LEU	N-CA	-5.48	1.39	1.46
6	1-T	380	GLU	N-CA	-5.48	1.39	1.46
6	2-T	380	GLU	N-CA	-5.48	1.39	1.46
6	3-T	380	GLU	N-CA	-5.48	1.39	1.46
6	4-T	380	GLU	N-CA	-5.48	1.39	1.46
6	5-T	380	GLU	N-CA	-5.48	1.39	1.46
6	6-T	380	GLU	N-CA	-5.48	1.39	1.46
6	7-T	380	GLU	N-CA	-5.48	1.39	1.46
6	8-T	380	GLU	N-CA	-5.48	1.39	1.46
4	1-R	131	GLY	C-N	5.48	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-R	131	GLY	C-N	5.48	1.41	1.34
4	3-R	131	GLY	C-N	5.48	1.41	1.34
4	4-R	131	GLY	C-N	5.48	1.41	1.34
4	5-R	131	GLY	C-N	5.48	1.41	1.34
4	6-R	131	GLY	C-N	5.48	1.41	1.34
4	7-R	131	GLY	C-N	5.48	1.41	1.34
4	8-R	131	GLY	C-N	5.48	1.41	1.34
6	1-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	2-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	3-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	4-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	5-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	6-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	7-Z	380	GLU	N-CA	-5.48	1.39	1.46
6	8-Z	380	GLU	N-CA	-5.48	1.39	1.46
5	1-S	412	VAL	N-CA	-5.47	1.39	1.46
5	2-S	412	VAL	N-CA	-5.47	1.39	1.46
5	3-S	412	VAL	N-CA	-5.47	1.39	1.46
5	4-S	412	VAL	N-CA	-5.47	1.39	1.46
5	5-S	412	VAL	N-CA	-5.47	1.39	1.46
5	6-S	412	VAL	N-CA	-5.47	1.39	1.46
5	7-S	412	VAL	N-CA	-5.47	1.39	1.46
5	8-S	412	VAL	N-CA	-5.47	1.39	1.46
4	1-L	366	THR	N-CA	-5.47	1.39	1.46
4	2-L	366	THR	N-CA	-5.47	1.39	1.46
4	3-L	366	THR	N-CA	-5.47	1.39	1.46
4	4-L	366	THR	N-CA	-5.47	1.39	1.46
4	5-L	366	THR	N-CA	-5.47	1.39	1.46
4	6-L	366	THR	N-CA	-5.47	1.39	1.46
4	7-L	366	THR	N-CA	-5.47	1.39	1.46
4	8-L	366	THR	N-CA	-5.47	1.39	1.46
4	1-R	308	ILE	CA-C	-5.46	1.45	1.52
4	2-R	308	ILE	CA-C	-5.46	1.45	1.52
4	3-R	308	ILE	CA-C	-5.46	1.45	1.52
4	4-R	308	ILE	CA-C	-5.46	1.45	1.52
4	5-R	308	ILE	CA-C	-5.46	1.45	1.52
4	6-R	308	ILE	CA-C	-5.46	1.45	1.52
4	7-R	308	ILE	CA-C	-5.46	1.45	1.52
4	8-R	308	ILE	CA-C	-5.46	1.45	1.52
4	1-R	348	GLN	N-CA	-5.46	1.39	1.46
4	2-R	348	GLN	N-CA	-5.46	1.39	1.46
4	3-R	348	GLN	N-CA	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-R	348	GLN	N-CA	-5.46	1.39	1.46
4	5-R	348	GLN	N-CA	-5.46	1.39	1.46
4	6-R	348	GLN	N-CA	-5.46	1.39	1.46
4	7-R	348	GLN	N-CA	-5.46	1.39	1.46
4	8-R	348	GLN	N-CA	-5.46	1.39	1.46
4	1-F	366	THR	N-CA	-5.46	1.39	1.46
4	1-R	411	ARG	C-N	5.46	1.40	1.33
4	2-F	366	THR	N-CA	-5.46	1.39	1.46
4	2-R	411	ARG	C-N	5.46	1.40	1.33
4	3-F	366	THR	N-CA	-5.46	1.39	1.46
4	3-R	411	ARG	C-N	5.46	1.40	1.33
4	4-F	366	THR	N-CA	-5.46	1.39	1.46
4	4-R	411	ARG	C-N	5.46	1.40	1.33
4	5-F	366	THR	N-CA	-5.46	1.39	1.46
4	5-R	411	ARG	C-N	5.46	1.40	1.33
4	6-F	366	THR	N-CA	-5.46	1.39	1.46
4	6-R	411	ARG	C-N	5.46	1.40	1.33
4	7-F	366	THR	N-CA	-5.46	1.39	1.46
4	7-R	411	ARG	C-N	5.46	1.40	1.33
4	8-F	366	THR	N-CA	-5.46	1.39	1.46
4	8-R	411	ARG	C-N	5.46	1.40	1.33
5	1-G	412	VAL	N-CA	-5.46	1.39	1.46
5	2-G	412	VAL	N-CA	-5.46	1.39	1.46
5	3-G	412	VAL	N-CA	-5.46	1.39	1.46
5	4-G	412	VAL	N-CA	-5.46	1.39	1.46
5	5-G	412	VAL	N-CA	-5.46	1.39	1.46
5	6-G	412	VAL	N-CA	-5.46	1.39	1.46
5	7-G	412	VAL	N-CA	-5.46	1.39	1.46
5	8-G	412	VAL	N-CA	-5.46	1.39	1.46
4	1-F	474	LEU	CA-C	-5.45	1.45	1.52
5	1-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	2-F	474	LEU	CA-C	-5.45	1.45	1.52
5	2-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	3-F	474	LEU	CA-C	-5.45	1.45	1.52
5	3-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	4-F	474	LEU	CA-C	-5.45	1.45	1.52
5	4-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	5-F	474	LEU	CA-C	-5.45	1.45	1.52
5	5-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	6-F	474	LEU	CA-C	-5.45	1.45	1.52
5	6-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	7-F	474	LEU	CA-C	-5.45	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	8-F	474	LEU	CA-C	-5.45	1.45	1.52
5	8-Y	412	VAL	N-CA	-5.45	1.39	1.46
4	1-L	131	GLY	C-N	5.45	1.41	1.34
4	2-L	131	GLY	C-N	5.45	1.41	1.34
4	3-L	131	GLY	C-N	5.45	1.41	1.34
4	4-L	131	GLY	C-N	5.45	1.41	1.34
4	5-L	131	GLY	C-N	5.45	1.41	1.34
4	6-L	131	GLY	C-N	5.45	1.41	1.34
4	7-L	131	GLY	C-N	5.45	1.41	1.34
4	8-L	131	GLY	C-N	5.45	1.41	1.34
4	1-L	348	GLN	N-CA	-5.44	1.39	1.46
4	2-L	348	GLN	N-CA	-5.44	1.39	1.46
4	3-L	348	GLN	N-CA	-5.44	1.39	1.46
4	4-L	348	GLN	N-CA	-5.44	1.39	1.46
4	5-L	348	GLN	N-CA	-5.44	1.39	1.46
4	6-L	348	GLN	N-CA	-5.44	1.39	1.46
4	7-L	348	GLN	N-CA	-5.44	1.39	1.46
4	8-L	348	GLN	N-CA	-5.44	1.39	1.46
4	1-F	411	ARG	C-N	5.44	1.40	1.33
4	1-X	131	GLY	C-N	5.44	1.41	1.34
4	2-F	411	ARG	C-N	5.44	1.40	1.33
4	2-X	131	GLY	C-N	5.44	1.41	1.34
4	3-F	411	ARG	C-N	5.44	1.40	1.33
4	3-X	131	GLY	C-N	5.44	1.41	1.34
4	4-F	411	ARG	C-N	5.44	1.40	1.33
4	4-X	131	GLY	C-N	5.44	1.41	1.34
4	5-F	411	ARG	C-N	5.44	1.40	1.33
4	5-X	131	GLY	C-N	5.44	1.41	1.34
4	6-F	411	ARG	C-N	5.44	1.40	1.33
4	6-X	131	GLY	C-N	5.44	1.41	1.34
4	7-F	411	ARG	C-N	5.44	1.40	1.33
4	7-X	131	GLY	C-N	5.44	1.41	1.34
4	8-F	411	ARG	C-N	5.44	1.40	1.33
4	8-X	131	GLY	C-N	5.44	1.41	1.34
4	1-X	348	GLN	N-CA	-5.44	1.39	1.46
4	2-X	348	GLN	N-CA	-5.44	1.39	1.46
4	3-X	348	GLN	N-CA	-5.44	1.39	1.46
4	4-X	348	GLN	N-CA	-5.44	1.39	1.46
4	5-X	348	GLN	N-CA	-5.44	1.39	1.46
4	6-X	348	GLN	N-CA	-5.44	1.39	1.46
4	7-X	348	GLN	N-CA	-5.44	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	348	GLN	N-CA	-5.44	1.39	1.46
4	1-F	348	GLN	N-CA	-5.43	1.39	1.46
4	1-X	366	THR	N-CA	-5.43	1.40	1.46
4	1-X	411	ARG	C-N	5.43	1.40	1.33
4	2-F	348	GLN	N-CA	-5.43	1.39	1.46
4	2-X	366	THR	N-CA	-5.43	1.40	1.46
4	2-X	411	ARG	C-N	5.43	1.40	1.33
4	3-F	348	GLN	N-CA	-5.43	1.39	1.46
4	3-X	366	THR	N-CA	-5.43	1.40	1.46
4	3-X	411	ARG	C-N	5.43	1.40	1.33
4	4-F	348	GLN	N-CA	-5.43	1.39	1.46
4	4-X	366	THR	N-CA	-5.43	1.40	1.46
4	4-X	411	ARG	C-N	5.43	1.40	1.33
4	5-F	348	GLN	N-CA	-5.43	1.39	1.46
4	5-X	366	THR	N-CA	-5.43	1.40	1.46
4	5-X	411	ARG	C-N	5.43	1.40	1.33
4	6-F	348	GLN	N-CA	-5.43	1.39	1.46
4	6-X	366	THR	N-CA	-5.43	1.40	1.46
4	6-X	411	ARG	C-N	5.43	1.40	1.33
4	7-F	348	GLN	N-CA	-5.43	1.39	1.46
4	7-X	366	THR	N-CA	-5.43	1.40	1.46
4	7-X	411	ARG	C-N	5.43	1.40	1.33
4	8-F	348	GLN	N-CA	-5.43	1.39	1.46
4	8-X	366	THR	N-CA	-5.43	1.40	1.46
4	8-X	411	ARG	C-N	5.43	1.40	1.33
4	1-R	366	THR	N-CA	-5.43	1.40	1.46
4	2-R	366	THR	N-CA	-5.43	1.40	1.46
4	3-R	366	THR	N-CA	-5.43	1.40	1.46
4	4-R	366	THR	N-CA	-5.43	1.40	1.46
4	5-R	366	THR	N-CA	-5.43	1.40	1.46
4	6-R	366	THR	N-CA	-5.43	1.40	1.46
4	7-R	366	THR	N-CA	-5.43	1.40	1.46
4	8-R	366	THR	N-CA	-5.43	1.40	1.46
2	1-C	234	LEU	N-CA	-5.42	1.35	1.46
2	2-C	234	LEU	N-CA	-5.42	1.35	1.46
2	3-C	234	LEU	N-CA	-5.42	1.35	1.46
2	4-C	234	LEU	N-CA	-5.42	1.35	1.46
2	5-C	234	LEU	N-CA	-5.42	1.35	1.46
2	6-C	234	LEU	N-CA	-5.42	1.35	1.46
2	7-C	234	LEU	N-CA	-5.42	1.35	1.46
2	8-C	234	LEU	N-CA	-5.42	1.35	1.46
5	1-S	253	GLN	CA-CB	-5.42	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	1-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	2-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	2-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	3-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	3-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	4-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	4-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	5-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	5-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	6-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	6-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	7-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	7-V	1533	ASP	N-CA	-5.42	1.39	1.46
5	8-S	253	GLN	CA-CB	-5.42	1.44	1.53
3	8-V	1533	ASP	N-CA	-5.42	1.39	1.46
4	1-R	480	ILE	CA-C	-5.41	1.45	1.52
4	2-R	480	ILE	CA-C	-5.41	1.45	1.52
4	3-R	480	ILE	CA-C	-5.41	1.45	1.52
4	4-R	480	ILE	CA-C	-5.41	1.45	1.52
4	5-R	480	ILE	CA-C	-5.41	1.45	1.52
4	6-R	480	ILE	CA-C	-5.41	1.45	1.52
4	7-R	480	ILE	CA-C	-5.41	1.45	1.52
4	8-R	480	ILE	CA-C	-5.41	1.45	1.52
4	1-F	131	GLY	C-N	5.41	1.41	1.34
4	1-F	480	ILE	CA-C	-5.41	1.45	1.52
5	1-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	2-F	131	GLY	C-N	5.41	1.41	1.34
4	2-F	480	ILE	CA-C	-5.41	1.45	1.52
5	2-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	3-F	131	GLY	C-N	5.41	1.41	1.34
4	3-F	480	ILE	CA-C	-5.41	1.45	1.52
5	3-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	4-F	131	GLY	C-N	5.41	1.41	1.34
4	4-F	480	ILE	CA-C	-5.41	1.45	1.52
5	4-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	5-F	131	GLY	C-N	5.41	1.41	1.34
4	5-F	480	ILE	CA-C	-5.41	1.45	1.52
5	5-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	6-F	131	GLY	C-N	5.41	1.41	1.34
4	6-F	480	ILE	CA-C	-5.41	1.45	1.52
5	6-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	7-F	131	GLY	C-N	5.41	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-F	480	ILE	CA-C	-5.41	1.45	1.52
5	7-M	253	GLN	CA-CB	-5.41	1.44	1.53
4	8-F	131	GLY	C-N	5.41	1.41	1.34
4	8-F	480	ILE	CA-C	-5.41	1.45	1.52
5	8-M	253	GLN	CA-CB	-5.41	1.44	1.53
5	1-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	2-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	3-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	4-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	5-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	6-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	7-Y	253	GLN	CA-CB	-5.41	1.44	1.53
5	8-Y	253	GLN	CA-CB	-5.41	1.44	1.53
2	1-O	234	LEU	N-CA	-5.40	1.35	1.46
4	1-R	300	PRO	N-CA	5.40	1.57	1.46
2	1-U	234	LEU	N-CA	-5.40	1.35	1.46
2	2-O	234	LEU	N-CA	-5.40	1.35	1.46
4	2-R	300	PRO	N-CA	5.40	1.57	1.46
2	2-U	234	LEU	N-CA	-5.40	1.35	1.46
2	3-O	234	LEU	N-CA	-5.40	1.35	1.46
4	3-R	300	PRO	N-CA	5.40	1.57	1.46
2	3-U	234	LEU	N-CA	-5.40	1.35	1.46
2	4-O	234	LEU	N-CA	-5.40	1.35	1.46
4	4-R	300	PRO	N-CA	5.40	1.57	1.46
2	4-U	234	LEU	N-CA	-5.40	1.35	1.46
2	5-O	234	LEU	N-CA	-5.40	1.35	1.46
4	5-R	300	PRO	N-CA	5.40	1.57	1.46
2	5-U	234	LEU	N-CA	-5.40	1.35	1.46
2	6-O	234	LEU	N-CA	-5.40	1.35	1.46
4	6-R	300	PRO	N-CA	5.40	1.57	1.46
2	6-U	234	LEU	N-CA	-5.40	1.35	1.46
2	7-O	234	LEU	N-CA	-5.40	1.35	1.46
4	7-R	300	PRO	N-CA	5.40	1.57	1.46
2	7-U	234	LEU	N-CA	-5.40	1.35	1.46
2	8-O	234	LEU	N-CA	-5.40	1.35	1.46
4	8-R	300	PRO	N-CA	5.40	1.57	1.46
2	8-U	234	LEU	N-CA	-5.40	1.35	1.46
3	1-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	1-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	2-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	2-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	3-D	1533	ASP	N-CA	-5.40	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	4-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	4-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	5-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	5-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	6-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	6-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	7-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	7-G	253	GLN	CA-CB	-5.40	1.44	1.53
3	8-D	1533	ASP	N-CA	-5.40	1.39	1.46
5	8-G	253	GLN	CA-CB	-5.40	1.44	1.53
2	1-U	4	GLU	CA-CB	5.40	1.61	1.54
4	1-X	300	PRO	N-CA	5.40	1.57	1.46
2	2-U	4	GLU	CA-CB	5.40	1.61	1.54
4	2-X	300	PRO	N-CA	5.40	1.57	1.46
2	3-U	4	GLU	CA-CB	5.40	1.61	1.54
4	3-X	300	PRO	N-CA	5.40	1.57	1.46
2	4-U	4	GLU	CA-CB	5.40	1.61	1.54
4	4-X	300	PRO	N-CA	5.40	1.57	1.46
2	5-U	4	GLU	CA-CB	5.40	1.61	1.54
4	5-X	300	PRO	N-CA	5.40	1.57	1.46
2	6-U	4	GLU	CA-CB	5.40	1.61	1.54
4	6-X	300	PRO	N-CA	5.40	1.57	1.46
2	7-U	4	GLU	CA-CB	5.40	1.61	1.54
4	7-X	300	PRO	N-CA	5.40	1.57	1.46
2	8-U	4	GLU	CA-CB	5.40	1.61	1.54
4	8-X	300	PRO	N-CA	5.40	1.57	1.46
2	1-I	234	LEU	N-CA	-5.39	1.36	1.46
3	1-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	2-I	234	LEU	N-CA	-5.39	1.36	1.46
3	2-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	3-I	234	LEU	N-CA	-5.39	1.36	1.46
3	3-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	4-I	234	LEU	N-CA	-5.39	1.36	1.46
3	4-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	5-I	234	LEU	N-CA	-5.39	1.36	1.46
3	5-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	6-I	234	LEU	N-CA	-5.39	1.36	1.46
3	6-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	7-I	234	LEU	N-CA	-5.39	1.36	1.46
3	7-V	1450	GLU	CA-C	-5.39	1.45	1.52
2	8-I	234	LEU	N-CA	-5.39	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-V	1450	GLU	CA-C	-5.39	1.45	1.52
3	1-D	1542	PRO	C-O	-5.39	1.17	1.24
3	2-D	1542	PRO	C-O	-5.39	1.17	1.24
3	3-D	1542	PRO	C-O	-5.39	1.17	1.24
3	4-D	1542	PRO	C-O	-5.39	1.17	1.24
3	5-D	1542	PRO	C-O	-5.39	1.17	1.24
3	6-D	1542	PRO	C-O	-5.39	1.17	1.24
3	7-D	1542	PRO	C-O	-5.39	1.17	1.24
3	8-D	1542	PRO	C-O	-5.39	1.17	1.24
4	1-F	467	LEU	N-CA	-5.39	1.39	1.46
4	1-R	307	ILE	CA-C	5.39	1.59	1.52
4	1-X	467	LEU	N-CA	-5.39	1.39	1.46
4	2-F	467	LEU	N-CA	-5.39	1.39	1.46
4	2-R	307	ILE	CA-C	5.39	1.59	1.52
4	2-X	467	LEU	N-CA	-5.39	1.39	1.46
4	3-F	467	LEU	N-CA	-5.39	1.39	1.46
4	3-R	307	ILE	CA-C	5.39	1.59	1.52
4	3-X	467	LEU	N-CA	-5.39	1.39	1.46
4	4-F	467	LEU	N-CA	-5.39	1.39	1.46
4	4-R	307	ILE	CA-C	5.39	1.59	1.52
4	4-X	467	LEU	N-CA	-5.39	1.39	1.46
4	5-F	467	LEU	N-CA	-5.39	1.39	1.46
4	5-R	307	ILE	CA-C	5.39	1.59	1.52
4	5-X	467	LEU	N-CA	-5.39	1.39	1.46
4	6-F	467	LEU	N-CA	-5.39	1.39	1.46
4	6-R	307	ILE	CA-C	5.39	1.59	1.52
4	6-X	467	LEU	N-CA	-5.39	1.39	1.46
4	7-F	467	LEU	N-CA	-5.39	1.39	1.46
4	7-R	307	ILE	CA-C	5.39	1.59	1.52
4	7-X	467	LEU	N-CA	-5.39	1.39	1.46
4	8-F	467	LEU	N-CA	-5.39	1.39	1.46
4	8-R	307	ILE	CA-C	5.39	1.59	1.52
4	8-X	467	LEU	N-CA	-5.39	1.39	1.46
4	1-X	480	ILE	CA-C	-5.38	1.45	1.52
4	2-X	480	ILE	CA-C	-5.38	1.45	1.52
4	3-X	480	ILE	CA-C	-5.38	1.45	1.52
4	4-X	480	ILE	CA-C	-5.38	1.45	1.52
4	5-X	480	ILE	CA-C	-5.38	1.45	1.52
4	6-X	480	ILE	CA-C	-5.38	1.45	1.52
4	7-X	480	ILE	CA-C	-5.38	1.45	1.52
4	8-X	480	ILE	CA-C	-5.38	1.45	1.52
4	1-F	300	PRO	N-CA	5.38	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-L	300	PRO	N-CA	5.38	1.57	1.46
4	2-F	300	PRO	N-CA	5.38	1.57	1.46
4	2-L	300	PRO	N-CA	5.38	1.57	1.46
4	3-F	300	PRO	N-CA	5.38	1.57	1.46
4	3-L	300	PRO	N-CA	5.38	1.57	1.46
4	4-F	300	PRO	N-CA	5.38	1.57	1.46
4	4-L	300	PRO	N-CA	5.38	1.57	1.46
4	5-F	300	PRO	N-CA	5.38	1.57	1.46
4	5-L	300	PRO	N-CA	5.38	1.57	1.46
4	6-F	300	PRO	N-CA	5.38	1.57	1.46
4	6-L	300	PRO	N-CA	5.38	1.57	1.46
4	7-F	300	PRO	N-CA	5.38	1.57	1.46
4	7-L	300	PRO	N-CA	5.38	1.57	1.46
4	8-F	300	PRO	N-CA	5.38	1.57	1.46
4	8-L	300	PRO	N-CA	5.38	1.57	1.46
3	1-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	2-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	3-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	4-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	5-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	6-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	7-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	8-P	1533	ASP	N-CA	-5.38	1.39	1.46
3	1-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	1-R	467	LEU	N-CA	-5.38	1.39	1.46
3	2-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	2-R	467	LEU	N-CA	-5.38	1.39	1.46
3	3-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	3-R	467	LEU	N-CA	-5.38	1.39	1.46
3	4-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	4-R	467	LEU	N-CA	-5.38	1.39	1.46
3	5-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	5-R	467	LEU	N-CA	-5.38	1.39	1.46
3	6-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	6-R	467	LEU	N-CA	-5.38	1.39	1.46
3	7-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	7-R	467	LEU	N-CA	-5.38	1.39	1.46
3	8-J	1533	ASP	N-CA	-5.38	1.39	1.46
4	8-R	467	LEU	N-CA	-5.38	1.39	1.46
3	1-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	1-L	411	ARG	C-N	5.38	1.40	1.33
3	2-D	1450	GLU	CA-C	-5.38	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	411	ARG	C-N	5.38	1.40	1.33
3	3-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	3-L	411	ARG	C-N	5.38	1.40	1.33
3	4-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	4-L	411	ARG	C-N	5.38	1.40	1.33
3	5-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	5-L	411	ARG	C-N	5.38	1.40	1.33
3	6-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	6-L	411	ARG	C-N	5.38	1.40	1.33
3	7-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	7-L	411	ARG	C-N	5.38	1.40	1.33
3	8-D	1450	GLU	CA-C	-5.38	1.45	1.52
4	8-L	411	ARG	C-N	5.38	1.40	1.33
2	1-O	4	GLU	CA-CB	5.37	1.61	1.54
2	2-O	4	GLU	CA-CB	5.37	1.61	1.54
2	3-O	4	GLU	CA-CB	5.37	1.61	1.54
2	4-O	4	GLU	CA-CB	5.37	1.61	1.54
2	5-O	4	GLU	CA-CB	5.37	1.61	1.54
2	6-O	4	GLU	CA-CB	5.37	1.61	1.54
2	7-O	4	GLU	CA-CB	5.37	1.61	1.54
2	8-O	4	GLU	CA-CB	5.37	1.61	1.54
4	1-L	307	ILE	CA-C	5.37	1.59	1.52
4	1-L	364	ASN	CA-C	-5.37	1.45	1.52
4	1-L	467	LEU	N-CA	-5.37	1.39	1.46
4	2-L	307	ILE	CA-C	5.37	1.59	1.52
4	2-L	364	ASN	CA-C	-5.37	1.45	1.52
4	2-L	467	LEU	N-CA	-5.37	1.39	1.46
4	3-L	307	ILE	CA-C	5.37	1.59	1.52
4	3-L	364	ASN	CA-C	-5.37	1.45	1.52
4	3-L	467	LEU	N-CA	-5.37	1.39	1.46
4	4-L	307	ILE	CA-C	5.37	1.59	1.52
4	4-L	364	ASN	CA-C	-5.37	1.45	1.52
4	4-L	467	LEU	N-CA	-5.37	1.39	1.46
4	5-L	307	ILE	CA-C	5.37	1.59	1.52
4	5-L	364	ASN	CA-C	-5.37	1.45	1.52
4	5-L	467	LEU	N-CA	-5.37	1.39	1.46
4	6-L	307	ILE	CA-C	5.37	1.59	1.52
4	6-L	364	ASN	CA-C	-5.37	1.45	1.52
4	6-L	467	LEU	N-CA	-5.37	1.39	1.46
4	7-L	307	ILE	CA-C	5.37	1.59	1.52
4	7-L	364	ASN	CA-C	-5.37	1.45	1.52
4	7-L	467	LEU	N-CA	-5.37	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	307	ILE	CA-C	5.37	1.59	1.52
4	8-L	364	ASN	CA-C	-5.37	1.45	1.52
4	8-L	467	LEU	N-CA	-5.37	1.39	1.46
3	1-V	1542	PRO	C-O	-5.37	1.17	1.24
3	2-V	1542	PRO	C-O	-5.37	1.17	1.24
3	3-V	1542	PRO	C-O	-5.37	1.17	1.24
3	4-V	1542	PRO	C-O	-5.37	1.17	1.24
3	5-V	1542	PRO	C-O	-5.37	1.17	1.24
3	6-V	1542	PRO	C-O	-5.37	1.17	1.24
3	7-V	1542	PRO	C-O	-5.37	1.17	1.24
3	8-V	1542	PRO	C-O	-5.37	1.17	1.24
4	1-F	307	ILE	CA-C	5.36	1.59	1.52
3	1-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	2-F	307	ILE	CA-C	5.36	1.59	1.52
3	2-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	3-F	307	ILE	CA-C	5.36	1.59	1.52
3	3-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	4-F	307	ILE	CA-C	5.36	1.59	1.52
3	4-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	5-F	307	ILE	CA-C	5.36	1.59	1.52
3	5-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	6-F	307	ILE	CA-C	5.36	1.59	1.52
3	6-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	7-F	307	ILE	CA-C	5.36	1.59	1.52
3	7-J	1450	GLU	CA-C	-5.36	1.45	1.52
4	8-F	307	ILE	CA-C	5.36	1.59	1.52
3	8-J	1450	GLU	CA-C	-5.36	1.45	1.52
3	1-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	1-R	409	GLN	CA-C	-5.35	1.45	1.52
3	2-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	2-R	409	GLN	CA-C	-5.35	1.45	1.52
3	3-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	3-R	409	GLN	CA-C	-5.35	1.45	1.52
3	4-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	4-R	409	GLN	CA-C	-5.35	1.45	1.52
3	5-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	5-R	409	GLN	CA-C	-5.35	1.45	1.52
3	6-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	6-R	409	GLN	CA-C	-5.35	1.45	1.52
3	7-P	1450	GLU	CA-C	-5.35	1.45	1.52
4	7-R	409	GLN	CA-C	-5.35	1.45	1.52
3	8-P	1450	GLU	CA-C	-5.35	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	409	GLN	CA-C	-5.35	1.45	1.52
4	1-F	364	ASN	CA-C	-5.35	1.45	1.52
4	2-F	364	ASN	CA-C	-5.35	1.45	1.52
4	3-F	364	ASN	CA-C	-5.35	1.45	1.52
4	4-F	364	ASN	CA-C	-5.35	1.45	1.52
4	5-F	364	ASN	CA-C	-5.35	1.45	1.52
4	6-F	364	ASN	CA-C	-5.35	1.45	1.52
4	7-F	364	ASN	CA-C	-5.35	1.45	1.52
4	8-F	364	ASN	CA-C	-5.35	1.45	1.52
4	1-R	364	ASN	CA-C	-5.35	1.45	1.52
4	2-R	364	ASN	CA-C	-5.35	1.45	1.52
4	3-R	364	ASN	CA-C	-5.35	1.45	1.52
4	4-R	364	ASN	CA-C	-5.35	1.45	1.52
4	5-R	364	ASN	CA-C	-5.35	1.45	1.52
4	6-R	364	ASN	CA-C	-5.35	1.45	1.52
4	7-R	364	ASN	CA-C	-5.35	1.45	1.52
4	8-R	364	ASN	CA-C	-5.35	1.45	1.52
2	1-I	4	GLU	CA-CB	5.34	1.61	1.54
2	2-I	4	GLU	CA-CB	5.34	1.61	1.54
2	3-I	4	GLU	CA-CB	5.34	1.61	1.54
2	4-I	4	GLU	CA-CB	5.34	1.61	1.54
2	5-I	4	GLU	CA-CB	5.34	1.61	1.54
2	6-I	4	GLU	CA-CB	5.34	1.61	1.54
2	7-I	4	GLU	CA-CB	5.34	1.61	1.54
2	8-I	4	GLU	CA-CB	5.34	1.61	1.54
4	1-F	409	GLN	CA-C	-5.34	1.46	1.52
4	1-X	409	GLN	CA-C	-5.34	1.46	1.52
4	2-F	409	GLN	CA-C	-5.34	1.46	1.52
4	2-X	409	GLN	CA-C	-5.34	1.46	1.52
4	3-F	409	GLN	CA-C	-5.34	1.46	1.52
4	3-X	409	GLN	CA-C	-5.34	1.46	1.52
4	4-F	409	GLN	CA-C	-5.34	1.46	1.52
4	4-X	409	GLN	CA-C	-5.34	1.46	1.52
4	5-F	409	GLN	CA-C	-5.34	1.46	1.52
4	5-X	409	GLN	CA-C	-5.34	1.46	1.52
4	6-F	409	GLN	CA-C	-5.34	1.46	1.52
4	6-X	409	GLN	CA-C	-5.34	1.46	1.52
4	7-F	409	GLN	CA-C	-5.34	1.46	1.52
4	7-X	409	GLN	CA-C	-5.34	1.46	1.52
4	8-F	409	GLN	CA-C	-5.34	1.46	1.52
4	8-X	409	GLN	CA-C	-5.34	1.46	1.52
4	1-L	409	GLN	CA-C	-5.33	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2-L	409	GLN	CA-C	-5.33	1.46	1.52
4	3-L	409	GLN	CA-C	-5.33	1.46	1.52
4	4-L	409	GLN	CA-C	-5.33	1.46	1.52
4	5-L	409	GLN	CA-C	-5.33	1.46	1.52
4	6-L	409	GLN	CA-C	-5.33	1.46	1.52
4	7-L	409	GLN	CA-C	-5.33	1.46	1.52
4	8-L	409	GLN	CA-C	-5.33	1.46	1.52
2	1-C	4	GLU	CA-CB	5.33	1.61	1.54
2	2-C	4	GLU	CA-CB	5.33	1.61	1.54
2	3-C	4	GLU	CA-CB	5.33	1.61	1.54
2	4-C	4	GLU	CA-CB	5.33	1.61	1.54
2	5-C	4	GLU	CA-CB	5.33	1.61	1.54
2	6-C	4	GLU	CA-CB	5.33	1.61	1.54
2	7-C	4	GLU	CA-CB	5.33	1.61	1.54
2	8-C	4	GLU	CA-CB	5.33	1.61	1.54
4	1-X	307	ILE	CA-C	5.32	1.59	1.52
4	2-X	307	ILE	CA-C	5.32	1.59	1.52
4	3-X	307	ILE	CA-C	5.32	1.59	1.52
4	4-X	307	ILE	CA-C	5.32	1.59	1.52
4	5-X	307	ILE	CA-C	5.32	1.59	1.52
4	6-X	307	ILE	CA-C	5.32	1.59	1.52
4	7-X	307	ILE	CA-C	5.32	1.59	1.52
4	8-X	307	ILE	CA-C	5.32	1.59	1.52
3	1-J	1542	PRO	C-O	-5.32	1.17	1.24
3	2-J	1542	PRO	C-O	-5.32	1.17	1.24
3	3-J	1542	PRO	C-O	-5.32	1.17	1.24
3	4-J	1542	PRO	C-O	-5.32	1.17	1.24
3	5-J	1542	PRO	C-O	-5.32	1.17	1.24
3	6-J	1542	PRO	C-O	-5.32	1.17	1.24
3	7-J	1542	PRO	C-O	-5.32	1.17	1.24
3	8-J	1542	PRO	C-O	-5.32	1.17	1.24
5	1-M	256	GLU	C-N	5.31	1.41	1.33
5	2-M	256	GLU	C-N	5.31	1.41	1.33
5	3-M	256	GLU	C-N	5.31	1.41	1.33
5	4-M	256	GLU	C-N	5.31	1.41	1.33
5	5-M	256	GLU	C-N	5.31	1.41	1.33
5	6-M	256	GLU	C-N	5.31	1.41	1.33
5	7-M	256	GLU	C-N	5.31	1.41	1.33
5	8-M	256	GLU	C-N	5.31	1.41	1.33
3	1-P	1542	PRO	C-O	-5.31	1.17	1.24
3	2-P	1542	PRO	C-O	-5.31	1.17	1.24
3	3-P	1542	PRO	C-O	-5.31	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-P	1542	PRO	C-O	-5.31	1.17	1.24
3	5-P	1542	PRO	C-O	-5.31	1.17	1.24
3	6-P	1542	PRO	C-O	-5.31	1.17	1.24
3	7-P	1542	PRO	C-O	-5.31	1.17	1.24
3	8-P	1542	PRO	C-O	-5.31	1.17	1.24
4	1-L	329	GLY	C-N	5.31	1.41	1.33
4	1-L	480	ILE	CA-C	-5.31	1.46	1.52
4	2-L	329	GLY	C-N	5.31	1.41	1.33
4	2-L	480	ILE	CA-C	-5.31	1.46	1.52
4	3-L	329	GLY	C-N	5.31	1.41	1.33
4	3-L	480	ILE	CA-C	-5.31	1.46	1.52
4	4-L	329	GLY	C-N	5.31	1.41	1.33
4	4-L	480	ILE	CA-C	-5.31	1.46	1.52
4	5-L	329	GLY	C-N	5.31	1.41	1.33
4	5-L	480	ILE	CA-C	-5.31	1.46	1.52
4	6-L	329	GLY	C-N	5.31	1.41	1.33
4	6-L	480	ILE	CA-C	-5.31	1.46	1.52
4	7-L	329	GLY	C-N	5.31	1.41	1.33
4	7-L	480	ILE	CA-C	-5.31	1.46	1.52
4	8-L	329	GLY	C-N	5.31	1.41	1.33
4	8-L	480	ILE	CA-C	-5.31	1.46	1.52
4	1-X	364	ASN	CA-C	-5.31	1.45	1.52
4	2-X	364	ASN	CA-C	-5.31	1.45	1.52
4	3-X	364	ASN	CA-C	-5.31	1.45	1.52
4	4-X	364	ASN	CA-C	-5.31	1.45	1.52
4	5-X	364	ASN	CA-C	-5.31	1.45	1.52
4	6-X	364	ASN	CA-C	-5.31	1.45	1.52
4	7-X	364	ASN	CA-C	-5.31	1.45	1.52
4	8-X	364	ASN	CA-C	-5.31	1.45	1.52
3	1-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	2-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	3-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	4-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	5-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	6-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	7-P	1486	CYS	N-CA	-5.31	1.40	1.46
3	8-P	1486	CYS	N-CA	-5.31	1.40	1.46
5	1-G	256	GLU	C-N	5.30	1.41	1.33
3	1-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	2-G	256	GLU	C-N	5.30	1.41	1.33
3	2-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	3-G	256	GLU	C-N	5.30	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	4-G	256	GLU	C-N	5.30	1.41	1.33
3	4-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	5-G	256	GLU	C-N	5.30	1.41	1.33
3	5-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	6-G	256	GLU	C-N	5.30	1.41	1.33
3	6-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	7-G	256	GLU	C-N	5.30	1.41	1.33
3	7-J	1486	CYS	N-CA	-5.30	1.40	1.46
5	8-G	256	GLU	C-N	5.30	1.41	1.33
3	8-J	1486	CYS	N-CA	-5.30	1.40	1.46
3	1-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	2-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	3-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	4-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	5-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	6-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	7-V	1486	CYS	N-CA	-5.30	1.40	1.46
3	8-V	1486	CYS	N-CA	-5.30	1.40	1.46
4	1-L	438	ILE	N-CA	-5.30	1.40	1.46
4	2-L	438	ILE	N-CA	-5.30	1.40	1.46
4	3-L	438	ILE	N-CA	-5.30	1.40	1.46
4	4-L	438	ILE	N-CA	-5.30	1.40	1.46
4	5-L	438	ILE	N-CA	-5.30	1.40	1.46
4	6-L	438	ILE	N-CA	-5.30	1.40	1.46
4	7-L	438	ILE	N-CA	-5.30	1.40	1.46
4	8-L	438	ILE	N-CA	-5.30	1.40	1.46
4	1-F	329	GLY	C-N	5.29	1.41	1.33
4	2-F	329	GLY	C-N	5.29	1.41	1.33
4	3-F	329	GLY	C-N	5.29	1.41	1.33
4	4-F	329	GLY	C-N	5.29	1.41	1.33
4	5-F	329	GLY	C-N	5.29	1.41	1.33
4	6-F	329	GLY	C-N	5.29	1.41	1.33
4	7-F	329	GLY	C-N	5.29	1.41	1.33
4	8-F	329	GLY	C-N	5.29	1.41	1.33
5	1-Y	256	GLU	C-N	5.29	1.41	1.33
5	2-Y	256	GLU	C-N	5.29	1.41	1.33
5	3-Y	256	GLU	C-N	5.29	1.41	1.33
5	4-Y	256	GLU	C-N	5.29	1.41	1.33
5	5-Y	256	GLU	C-N	5.29	1.41	1.33
5	6-Y	256	GLU	C-N	5.29	1.41	1.33
5	7-Y	256	GLU	C-N	5.29	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-Y	256	GLU	C-N	5.29	1.41	1.33
4	1-L	414	LEU	N-CA	-5.28	1.40	1.46
5	1-S	256	GLU	C-N	5.28	1.41	1.33
4	2-L	414	LEU	N-CA	-5.28	1.40	1.46
5	2-S	256	GLU	C-N	5.28	1.41	1.33
4	3-L	414	LEU	N-CA	-5.28	1.40	1.46
5	3-S	256	GLU	C-N	5.28	1.41	1.33
4	4-L	414	LEU	N-CA	-5.28	1.40	1.46
5	4-S	256	GLU	C-N	5.28	1.41	1.33
4	5-L	414	LEU	N-CA	-5.28	1.40	1.46
5	5-S	256	GLU	C-N	5.28	1.41	1.33
4	6-L	414	LEU	N-CA	-5.28	1.40	1.46
5	6-S	256	GLU	C-N	5.28	1.41	1.33
4	7-L	414	LEU	N-CA	-5.28	1.40	1.46
5	7-S	256	GLU	C-N	5.28	1.41	1.33
4	8-L	414	LEU	N-CA	-5.28	1.40	1.46
5	8-S	256	GLU	C-N	5.28	1.41	1.33
3	1-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	2-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	3-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	4-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	5-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	6-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	7-D	1486	CYS	N-CA	-5.27	1.40	1.46
3	8-D	1486	CYS	N-CA	-5.27	1.40	1.46
2	1-C	2	ASP	N-CA	-5.27	1.40	1.46
4	1-R	329	GLY	C-N	5.27	1.41	1.33
2	2-C	2	ASP	N-CA	-5.27	1.40	1.46
4	2-R	329	GLY	C-N	5.27	1.41	1.33
2	3-C	2	ASP	N-CA	-5.27	1.40	1.46
4	3-R	329	GLY	C-N	5.27	1.41	1.33
2	4-C	2	ASP	N-CA	-5.27	1.40	1.46
4	4-R	329	GLY	C-N	5.27	1.41	1.33
2	5-C	2	ASP	N-CA	-5.27	1.40	1.46
4	5-R	329	GLY	C-N	5.27	1.41	1.33
2	6-C	2	ASP	N-CA	-5.27	1.40	1.46
4	6-R	329	GLY	C-N	5.27	1.41	1.33
2	7-C	2	ASP	N-CA	-5.27	1.40	1.46
4	7-R	329	GLY	C-N	5.27	1.41	1.33
2	8-C	2	ASP	N-CA	-5.27	1.40	1.46
4	8-R	329	GLY	C-N	5.27	1.41	1.33
2	1-I	2	ASP	N-CA	-5.27	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2-I	2	ASP	N-CA	-5.27	1.40	1.46
2	3-I	2	ASP	N-CA	-5.27	1.40	1.46
2	4-I	2	ASP	N-CA	-5.27	1.40	1.46
2	5-I	2	ASP	N-CA	-5.27	1.40	1.46
2	6-I	2	ASP	N-CA	-5.27	1.40	1.46
2	7-I	2	ASP	N-CA	-5.27	1.40	1.46
2	8-I	2	ASP	N-CA	-5.27	1.40	1.46
3	1-D	1506	VAL	C-N	-5.26	1.26	1.33
3	2-D	1506	VAL	C-N	-5.26	1.26	1.33
3	3-D	1506	VAL	C-N	-5.26	1.26	1.33
3	4-D	1506	VAL	C-N	-5.26	1.26	1.33
3	5-D	1506	VAL	C-N	-5.26	1.26	1.33
3	6-D	1506	VAL	C-N	-5.26	1.26	1.33
3	7-D	1506	VAL	C-N	-5.26	1.26	1.33
3	8-D	1506	VAL	C-N	-5.26	1.26	1.33
2	1-I	233	VAL	N-CA	-5.26	1.39	1.46
4	1-R	407	GLU	CA-C	-5.26	1.46	1.52
2	2-I	233	VAL	N-CA	-5.26	1.39	1.46
4	2-R	407	GLU	CA-C	-5.26	1.46	1.52
2	3-I	233	VAL	N-CA	-5.26	1.39	1.46
4	3-R	407	GLU	CA-C	-5.26	1.46	1.52
2	4-I	233	VAL	N-CA	-5.26	1.39	1.46
4	4-R	407	GLU	CA-C	-5.26	1.46	1.52
2	5-I	233	VAL	N-CA	-5.26	1.39	1.46
4	5-R	407	GLU	CA-C	-5.26	1.46	1.52
2	6-I	233	VAL	N-CA	-5.26	1.39	1.46
4	6-R	407	GLU	CA-C	-5.26	1.46	1.52
2	7-I	233	VAL	N-CA	-5.26	1.39	1.46
4	7-R	407	GLU	CA-C	-5.26	1.46	1.52
2	8-I	233	VAL	N-CA	-5.26	1.39	1.46
4	8-R	407	GLU	CA-C	-5.26	1.46	1.52
2	1-O	2	ASP	N-CA	-5.26	1.40	1.46
2	2-O	2	ASP	N-CA	-5.26	1.40	1.46
2	3-O	2	ASP	N-CA	-5.26	1.40	1.46
2	4-O	2	ASP	N-CA	-5.26	1.40	1.46
2	5-O	2	ASP	N-CA	-5.26	1.40	1.46
2	6-O	2	ASP	N-CA	-5.26	1.40	1.46
2	7-O	2	ASP	N-CA	-5.26	1.40	1.46
2	8-O	2	ASP	N-CA	-5.26	1.40	1.46
6	1-T	376	HIS	CA-C	-5.26	1.46	1.52
6	2-T	376	HIS	CA-C	-5.26	1.46	1.52
6	3-T	376	HIS	CA-C	-5.26	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	376	HIS	CA-C	-5.26	1.46	1.52
6	5-T	376	HIS	CA-C	-5.26	1.46	1.52
6	6-T	376	HIS	CA-C	-5.26	1.46	1.52
6	7-T	376	HIS	CA-C	-5.26	1.46	1.52
6	8-T	376	HIS	CA-C	-5.26	1.46	1.52
3	1-J	1506	VAL	C-N	-5.25	1.26	1.33
3	2-J	1506	VAL	C-N	-5.25	1.26	1.33
3	3-J	1506	VAL	C-N	-5.25	1.26	1.33
3	4-J	1506	VAL	C-N	-5.25	1.26	1.33
3	5-J	1506	VAL	C-N	-5.25	1.26	1.33
3	6-J	1506	VAL	C-N	-5.25	1.26	1.33
3	7-J	1506	VAL	C-N	-5.25	1.26	1.33
3	8-J	1506	VAL	C-N	-5.25	1.26	1.33
6	1-H	376	HIS	CA-C	-5.25	1.46	1.52
6	2-H	376	HIS	CA-C	-5.25	1.46	1.52
6	3-H	376	HIS	CA-C	-5.25	1.46	1.52
6	4-H	376	HIS	CA-C	-5.25	1.46	1.52
6	5-H	376	HIS	CA-C	-5.25	1.46	1.52
6	6-H	376	HIS	CA-C	-5.25	1.46	1.52
6	7-H	376	HIS	CA-C	-5.25	1.46	1.52
6	8-H	376	HIS	CA-C	-5.25	1.46	1.52
6	1-N	387	LYS	C-N	-5.25	1.26	1.33
3	1-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	2-N	387	LYS	C-N	-5.25	1.26	1.33
3	2-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	3-N	387	LYS	C-N	-5.25	1.26	1.33
3	3-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	4-N	387	LYS	C-N	-5.25	1.26	1.33
3	4-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	5-N	387	LYS	C-N	-5.25	1.26	1.33
3	5-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	6-N	387	LYS	C-N	-5.25	1.26	1.33
3	6-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	7-N	387	LYS	C-N	-5.25	1.26	1.33
3	7-V	1452	LEU	CA-C	-5.25	1.46	1.52
6	8-N	387	LYS	C-N	-5.25	1.26	1.33
3	8-V	1452	LEU	CA-C	-5.25	1.46	1.52
5	1-M	312	LYS	C-N	-5.25	1.27	1.33
5	2-M	312	LYS	C-N	-5.25	1.27	1.33
5	3-M	312	LYS	C-N	-5.25	1.27	1.33
5	4-M	312	LYS	C-N	-5.25	1.27	1.33
5	5-M	312	LYS	C-N	-5.25	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	6-M	312	LYS	C-N	-5.25	1.27	1.33
5	7-M	312	LYS	C-N	-5.25	1.27	1.33
5	8-M	312	LYS	C-N	-5.25	1.27	1.33
4	1-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	2-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	3-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	4-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	5-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	6-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	7-F	417	ILE	CA-CB	-5.25	1.48	1.54
4	8-F	417	ILE	CA-CB	-5.25	1.48	1.54
3	1-D	1505	SER	N-CA	-5.25	1.40	1.46
3	2-D	1505	SER	N-CA	-5.25	1.40	1.46
3	3-D	1505	SER	N-CA	-5.25	1.40	1.46
3	4-D	1505	SER	N-CA	-5.25	1.40	1.46
3	5-D	1505	SER	N-CA	-5.25	1.40	1.46
3	6-D	1505	SER	N-CA	-5.25	1.40	1.46
3	7-D	1505	SER	N-CA	-5.25	1.40	1.46
3	8-D	1505	SER	N-CA	-5.25	1.40	1.46
3	1-J	1505	SER	N-CA	-5.24	1.40	1.46
6	1-T	419	GLY	CA-C	-5.24	1.45	1.51
3	2-J	1505	SER	N-CA	-5.24	1.40	1.46
6	2-T	419	GLY	CA-C	-5.24	1.45	1.51
3	3-J	1505	SER	N-CA	-5.24	1.40	1.46
6	3-T	419	GLY	CA-C	-5.24	1.45	1.51
3	4-J	1505	SER	N-CA	-5.24	1.40	1.46
6	4-T	419	GLY	CA-C	-5.24	1.45	1.51
3	5-J	1505	SER	N-CA	-5.24	1.40	1.46
6	5-T	419	GLY	CA-C	-5.24	1.45	1.51
3	6-J	1505	SER	N-CA	-5.24	1.40	1.46
6	6-T	419	GLY	CA-C	-5.24	1.45	1.51
3	7-J	1505	SER	N-CA	-5.24	1.40	1.46
6	7-T	419	GLY	CA-C	-5.24	1.45	1.51
3	8-J	1505	SER	N-CA	-5.24	1.40	1.46
6	8-T	419	GLY	CA-C	-5.24	1.45	1.51
4	1-L	407	GLU	CA-C	-5.24	1.46	1.52
4	2-L	407	GLU	CA-C	-5.24	1.46	1.52
4	3-L	407	GLU	CA-C	-5.24	1.46	1.52
4	4-L	407	GLU	CA-C	-5.24	1.46	1.52
4	5-L	407	GLU	CA-C	-5.24	1.46	1.52
4	6-L	407	GLU	CA-C	-5.24	1.46	1.52
4	7-L	407	GLU	CA-C	-5.24	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	407	GLU	CA-C	-5.24	1.46	1.52
2	1-C	233	VAL	N-CA	-5.24	1.39	1.46
3	1-V	1506	VAL	C-N	-5.24	1.26	1.33
2	2-C	233	VAL	N-CA	-5.24	1.39	1.46
3	2-V	1506	VAL	C-N	-5.24	1.26	1.33
2	3-C	233	VAL	N-CA	-5.24	1.39	1.46
3	3-V	1506	VAL	C-N	-5.24	1.26	1.33
2	4-C	233	VAL	N-CA	-5.24	1.39	1.46
3	4-V	1506	VAL	C-N	-5.24	1.26	1.33
2	5-C	233	VAL	N-CA	-5.24	1.39	1.46
3	5-V	1506	VAL	C-N	-5.24	1.26	1.33
2	6-C	233	VAL	N-CA	-5.24	1.39	1.46
3	6-V	1506	VAL	C-N	-5.24	1.26	1.33
2	7-C	233	VAL	N-CA	-5.24	1.39	1.46
3	7-V	1506	VAL	C-N	-5.24	1.26	1.33
2	8-C	233	VAL	N-CA	-5.24	1.39	1.46
3	8-V	1506	VAL	C-N	-5.24	1.26	1.33
5	1-S	397	VAL	C-N	5.24	1.41	1.33
5	2-S	397	VAL	C-N	5.24	1.41	1.33
5	3-S	397	VAL	C-N	5.24	1.41	1.33
5	4-S	397	VAL	C-N	5.24	1.41	1.33
5	5-S	397	VAL	C-N	5.24	1.41	1.33
5	6-S	397	VAL	C-N	5.24	1.41	1.33
5	7-S	397	VAL	C-N	5.24	1.41	1.33
5	8-S	397	VAL	C-N	5.24	1.41	1.33
4	1-F	438	ILE	N-CA	-5.23	1.40	1.46
4	2-F	438	ILE	N-CA	-5.23	1.40	1.46
4	3-F	438	ILE	N-CA	-5.23	1.40	1.46
4	4-F	438	ILE	N-CA	-5.23	1.40	1.46
4	5-F	438	ILE	N-CA	-5.23	1.40	1.46
4	6-F	438	ILE	N-CA	-5.23	1.40	1.46
4	7-F	438	ILE	N-CA	-5.23	1.40	1.46
4	8-F	438	ILE	N-CA	-5.23	1.40	1.46
6	1-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	2-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	3-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	4-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	5-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	6-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	7-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	8-Z	376	HIS	CA-C	-5.23	1.46	1.52
6	1-N	376	HIS	CA-C	-5.23	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-N	419	GLY	CA-C	-5.23	1.45	1.51
6	2-N	376	HIS	CA-C	-5.23	1.46	1.52
6	2-N	419	GLY	CA-C	-5.23	1.45	1.51
6	3-N	376	HIS	CA-C	-5.23	1.46	1.52
6	3-N	419	GLY	CA-C	-5.23	1.45	1.51
6	4-N	376	HIS	CA-C	-5.23	1.46	1.52
6	4-N	419	GLY	CA-C	-5.23	1.45	1.51
6	5-N	376	HIS	CA-C	-5.23	1.46	1.52
6	5-N	419	GLY	CA-C	-5.23	1.45	1.51
6	6-N	376	HIS	CA-C	-5.23	1.46	1.52
6	6-N	419	GLY	CA-C	-5.23	1.45	1.51
6	7-N	376	HIS	CA-C	-5.23	1.46	1.52
6	7-N	419	GLY	CA-C	-5.23	1.45	1.51
6	8-N	376	HIS	CA-C	-5.23	1.46	1.52
6	8-N	419	GLY	CA-C	-5.23	1.45	1.51
3	1-P	1506	VAL	C-N	-5.23	1.26	1.33
3	2-P	1506	VAL	C-N	-5.23	1.26	1.33
3	3-P	1506	VAL	C-N	-5.23	1.26	1.33
3	4-P	1506	VAL	C-N	-5.23	1.26	1.33
3	5-P	1506	VAL	C-N	-5.23	1.26	1.33
3	6-P	1506	VAL	C-N	-5.23	1.26	1.33
3	7-P	1506	VAL	C-N	-5.23	1.26	1.33
3	8-P	1506	VAL	C-N	-5.23	1.26	1.33
6	1-T	387	LYS	C-N	-5.22	1.26	1.33
2	1-U	2	ASP	N-CA	-5.22	1.40	1.46
4	1-X	329	GLY	C-N	5.22	1.41	1.33
5	1-Y	312	LYS	C-N	-5.22	1.27	1.33
6	2-T	387	LYS	C-N	-5.22	1.26	1.33
2	2-U	2	ASP	N-CA	-5.22	1.40	1.46
4	2-X	329	GLY	C-N	5.22	1.41	1.33
5	2-Y	312	LYS	C-N	-5.22	1.27	1.33
6	3-T	387	LYS	C-N	-5.22	1.26	1.33
2	3-U	2	ASP	N-CA	-5.22	1.40	1.46
4	3-X	329	GLY	C-N	5.22	1.41	1.33
5	3-Y	312	LYS	C-N	-5.22	1.27	1.33
6	4-T	387	LYS	C-N	-5.22	1.26	1.33
2	4-U	2	ASP	N-CA	-5.22	1.40	1.46
4	4-X	329	GLY	C-N	5.22	1.41	1.33
5	4-Y	312	LYS	C-N	-5.22	1.27	1.33
6	5-T	387	LYS	C-N	-5.22	1.26	1.33
2	5-U	2	ASP	N-CA	-5.22	1.40	1.46
4	5-X	329	GLY	C-N	5.22	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-Y	312	LYS	C-N	-5.22	1.27	1.33
6	6-T	387	LYS	C-N	-5.22	1.26	1.33
2	6-U	2	ASP	N-CA	-5.22	1.40	1.46
4	6-X	329	GLY	C-N	5.22	1.41	1.33
5	6-Y	312	LYS	C-N	-5.22	1.27	1.33
6	7-T	387	LYS	C-N	-5.22	1.26	1.33
2	7-U	2	ASP	N-CA	-5.22	1.40	1.46
4	7-X	329	GLY	C-N	5.22	1.41	1.33
5	7-Y	312	LYS	C-N	-5.22	1.27	1.33
6	8-T	387	LYS	C-N	-5.22	1.26	1.33
2	8-U	2	ASP	N-CA	-5.22	1.40	1.46
4	8-X	329	GLY	C-N	5.22	1.41	1.33
5	8-Y	312	LYS	C-N	-5.22	1.27	1.33
3	1-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	1-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	2-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	2-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	3-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	3-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	4-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	4-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	5-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	5-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	6-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	6-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	7-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	7-Z	419	GLY	CA-C	-5.22	1.45	1.51
3	8-J	1452	LEU	CA-C	-5.22	1.46	1.52
6	8-Z	419	GLY	CA-C	-5.22	1.45	1.51
4	1-F	407	GLU	CA-C	-5.22	1.46	1.52
2	1-O	233	VAL	N-CA	-5.22	1.39	1.46
4	2-F	407	GLU	CA-C	-5.22	1.46	1.52
2	2-O	233	VAL	N-CA	-5.22	1.39	1.46
4	3-F	407	GLU	CA-C	-5.22	1.46	1.52
2	3-O	233	VAL	N-CA	-5.22	1.39	1.46
4	4-F	407	GLU	CA-C	-5.22	1.46	1.52
2	4-O	233	VAL	N-CA	-5.22	1.39	1.46
4	5-F	407	GLU	CA-C	-5.22	1.46	1.52
2	5-O	233	VAL	N-CA	-5.22	1.39	1.46
4	6-F	407	GLU	CA-C	-5.22	1.46	1.52
2	6-O	233	VAL	N-CA	-5.22	1.39	1.46
4	7-F	407	GLU	CA-C	-5.22	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	7-O	233	VAL	N-CA	-5.22	1.39	1.46
4	8-F	407	GLU	CA-C	-5.22	1.46	1.52
2	8-O	233	VAL	N-CA	-5.22	1.39	1.46
3	1-P	1505	SER	N-CA	-5.22	1.40	1.46
3	2-P	1505	SER	N-CA	-5.22	1.40	1.46
3	3-P	1505	SER	N-CA	-5.22	1.40	1.46
3	4-P	1505	SER	N-CA	-5.22	1.40	1.46
3	5-P	1505	SER	N-CA	-5.22	1.40	1.46
3	6-P	1505	SER	N-CA	-5.22	1.40	1.46
3	7-P	1505	SER	N-CA	-5.22	1.40	1.46
3	8-P	1505	SER	N-CA	-5.22	1.40	1.46
4	1-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	2-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	3-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	4-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	5-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	6-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	7-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	8-L	417	ILE	CA-CB	-5.21	1.48	1.54
4	1-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	2-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	3-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	4-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	5-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	6-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	7-X	417	ILE	CA-CB	-5.21	1.48	1.54
4	8-X	417	ILE	CA-CB	-5.21	1.48	1.54
6	1-H	387	LYS	C-N	-5.21	1.26	1.33
4	1-L	411	ARG	CA-CB	5.21	1.61	1.53
2	1-U	233	VAL	N-CA	-5.21	1.39	1.46
6	2-H	387	LYS	C-N	-5.21	1.26	1.33
4	2-L	411	ARG	CA-CB	5.21	1.61	1.53
2	2-U	233	VAL	N-CA	-5.21	1.39	1.46
6	3-H	387	LYS	C-N	-5.21	1.26	1.33
4	3-L	411	ARG	CA-CB	5.21	1.61	1.53
2	3-U	233	VAL	N-CA	-5.21	1.39	1.46
6	4-H	387	LYS	C-N	-5.21	1.26	1.33
4	4-L	411	ARG	CA-CB	5.21	1.61	1.53
2	4-U	233	VAL	N-CA	-5.21	1.39	1.46
6	5-H	387	LYS	C-N	-5.21	1.26	1.33
4	5-L	411	ARG	CA-CB	5.21	1.61	1.53
2	5-U	233	VAL	N-CA	-5.21	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	6-H	387	LYS	C-N	-5.21	1.26	1.33
4	6-L	411	ARG	CA-CB	5.21	1.61	1.53
2	6-U	233	VAL	N-CA	-5.21	1.39	1.46
6	7-H	387	LYS	C-N	-5.21	1.26	1.33
4	7-L	411	ARG	CA-CB	5.21	1.61	1.53
2	7-U	233	VAL	N-CA	-5.21	1.39	1.46
6	8-H	387	LYS	C-N	-5.21	1.26	1.33
4	8-L	411	ARG	CA-CB	5.21	1.61	1.53
2	8-U	233	VAL	N-CA	-5.21	1.39	1.46
6	1-H	380	GLU	N-CA	-5.21	1.39	1.46
6	2-H	380	GLU	N-CA	-5.21	1.39	1.46
6	3-H	380	GLU	N-CA	-5.21	1.39	1.46
6	4-H	380	GLU	N-CA	-5.21	1.39	1.46
6	5-H	380	GLU	N-CA	-5.21	1.39	1.46
6	6-H	380	GLU	N-CA	-5.21	1.39	1.46
6	7-H	380	GLU	N-CA	-5.21	1.39	1.46
6	8-H	380	GLU	N-CA	-5.21	1.39	1.46
3	1-V	1505	SER	N-CA	-5.21	1.40	1.46
3	2-V	1505	SER	N-CA	-5.21	1.40	1.46
3	3-V	1505	SER	N-CA	-5.21	1.40	1.46
3	4-V	1505	SER	N-CA	-5.21	1.40	1.46
3	5-V	1505	SER	N-CA	-5.21	1.40	1.46
3	6-V	1505	SER	N-CA	-5.21	1.40	1.46
3	7-V	1505	SER	N-CA	-5.21	1.40	1.46
3	8-V	1505	SER	N-CA	-5.21	1.40	1.46
3	1-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	1-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	2-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	2-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	3-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	3-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	4-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	4-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	5-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	5-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	6-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	6-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	7-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	7-R	417	ILE	CA-CB	-5.20	1.48	1.54
3	8-D	1452	LEU	CA-C	-5.20	1.46	1.52
4	8-R	417	ILE	CA-CB	-5.20	1.48	1.54
4	1-F	440	MET	CA-C	5.20	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	1-G	312	LYS	C-N	-5.20	1.27	1.33
5	1-M	397	VAL	C-N	5.20	1.41	1.33
4	2-F	440	MET	CA-C	5.20	1.59	1.52
5	2-G	312	LYS	C-N	-5.20	1.27	1.33
5	2-M	397	VAL	C-N	5.20	1.41	1.33
4	3-F	440	MET	CA-C	5.20	1.59	1.52
5	3-G	312	LYS	C-N	-5.20	1.27	1.33
5	3-M	397	VAL	C-N	5.20	1.41	1.33
4	4-F	440	MET	CA-C	5.20	1.59	1.52
5	4-G	312	LYS	C-N	-5.20	1.27	1.33
5	4-M	397	VAL	C-N	5.20	1.41	1.33
4	5-F	440	MET	CA-C	5.20	1.59	1.52
5	5-G	312	LYS	C-N	-5.20	1.27	1.33
5	5-M	397	VAL	C-N	5.20	1.41	1.33
4	6-F	440	MET	CA-C	5.20	1.59	1.52
5	6-G	312	LYS	C-N	-5.20	1.27	1.33
5	6-M	397	VAL	C-N	5.20	1.41	1.33
4	7-F	440	MET	CA-C	5.20	1.59	1.52
5	7-G	312	LYS	C-N	-5.20	1.27	1.33
5	7-M	397	VAL	C-N	5.20	1.41	1.33
4	8-F	440	MET	CA-C	5.20	1.59	1.52
5	8-G	312	LYS	C-N	-5.20	1.27	1.33
5	8-M	397	VAL	C-N	5.20	1.41	1.33
4	1-X	407	GLU	CA-C	-5.20	1.46	1.52
4	1-X	438	ILE	N-CA	-5.20	1.40	1.46
6	1-Z	387	LYS	C-N	-5.20	1.26	1.33
4	2-X	407	GLU	CA-C	-5.20	1.46	1.52
4	2-X	438	ILE	N-CA	-5.20	1.40	1.46
6	2-Z	387	LYS	C-N	-5.20	1.26	1.33
4	3-X	407	GLU	CA-C	-5.20	1.46	1.52
4	3-X	438	ILE	N-CA	-5.20	1.40	1.46
6	3-Z	387	LYS	C-N	-5.20	1.26	1.33
4	4-X	407	GLU	CA-C	-5.20	1.46	1.52
4	4-X	438	ILE	N-CA	-5.20	1.40	1.46
6	4-Z	387	LYS	C-N	-5.20	1.26	1.33
4	5-X	407	GLU	CA-C	-5.20	1.46	1.52
4	5-X	438	ILE	N-CA	-5.20	1.40	1.46
6	5-Z	387	LYS	C-N	-5.20	1.26	1.33
4	6-X	407	GLU	CA-C	-5.20	1.46	1.52
4	6-X	438	ILE	N-CA	-5.20	1.40	1.46
6	6-Z	387	LYS	C-N	-5.20	1.26	1.33
4	7-X	407	GLU	CA-C	-5.20	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7-X	438	ILE	N-CA	-5.20	1.40	1.46
6	7-Z	387	LYS	C-N	-5.20	1.26	1.33
4	8-X	407	GLU	CA-C	-5.20	1.46	1.52
4	8-X	438	ILE	N-CA	-5.20	1.40	1.46
6	8-Z	387	LYS	C-N	-5.20	1.26	1.33
5	1-G	397	VAL	C-N	5.20	1.41	1.33
6	1-H	419	GLY	CA-C	-5.20	1.45	1.51
2	1-I	252	MET	CA-C	-5.20	1.45	1.52
4	1-R	438	ILE	N-CA	-5.20	1.40	1.46
5	1-S	312	LYS	C-N	-5.20	1.27	1.33
5	2-G	397	VAL	C-N	5.20	1.41	1.33
6	2-H	419	GLY	CA-C	-5.20	1.45	1.51
2	2-I	252	MET	CA-C	-5.20	1.45	1.52
4	2-R	438	ILE	N-CA	-5.20	1.40	1.46
5	2-S	312	LYS	C-N	-5.20	1.27	1.33
5	3-G	397	VAL	C-N	5.20	1.41	1.33
6	3-H	419	GLY	CA-C	-5.20	1.45	1.51
2	3-I	252	MET	CA-C	-5.20	1.45	1.52
4	3-R	438	ILE	N-CA	-5.20	1.40	1.46
5	3-S	312	LYS	C-N	-5.20	1.27	1.33
5	4-G	397	VAL	C-N	5.20	1.41	1.33
6	4-H	419	GLY	CA-C	-5.20	1.45	1.51
2	4-I	252	MET	CA-C	-5.20	1.45	1.52
4	4-R	438	ILE	N-CA	-5.20	1.40	1.46
5	4-S	312	LYS	C-N	-5.20	1.27	1.33
5	5-G	397	VAL	C-N	5.20	1.41	1.33
6	5-H	419	GLY	CA-C	-5.20	1.45	1.51
2	5-I	252	MET	CA-C	-5.20	1.45	1.52
4	5-R	438	ILE	N-CA	-5.20	1.40	1.46
5	5-S	312	LYS	C-N	-5.20	1.27	1.33
5	6-G	397	VAL	C-N	5.20	1.41	1.33
6	6-H	419	GLY	CA-C	-5.20	1.45	1.51
2	6-I	252	MET	CA-C	-5.20	1.45	1.52
4	6-R	438	ILE	N-CA	-5.20	1.40	1.46
5	6-S	312	LYS	C-N	-5.20	1.27	1.33
5	7-G	397	VAL	C-N	5.20	1.41	1.33
6	7-H	419	GLY	CA-C	-5.20	1.45	1.51
2	7-I	252	MET	CA-C	-5.20	1.45	1.52
4	7-R	438	ILE	N-CA	-5.20	1.40	1.46
5	7-S	312	LYS	C-N	-5.20	1.27	1.33
5	8-G	397	VAL	C-N	5.20	1.41	1.33
6	8-H	419	GLY	CA-C	-5.20	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	8-I	252	MET	CA-C	-5.20	1.45	1.52
4	8-R	438	ILE	N-CA	-5.20	1.40	1.46
5	8-S	312	LYS	C-N	-5.20	1.27	1.33
5	1-S	260	LYS	CA-C	5.20	1.59	1.52
5	2-S	260	LYS	CA-C	5.20	1.59	1.52
5	3-S	260	LYS	CA-C	5.20	1.59	1.52
5	4-S	260	LYS	CA-C	5.20	1.59	1.52
5	5-S	260	LYS	CA-C	5.20	1.59	1.52
5	6-S	260	LYS	CA-C	5.20	1.59	1.52
5	7-S	260	LYS	CA-C	5.20	1.59	1.52
5	8-S	260	LYS	CA-C	5.20	1.59	1.52
4	1-F	414	LEU	N-CA	-5.19	1.40	1.46
2	1-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	2-F	414	LEU	N-CA	-5.19	1.40	1.46
2	2-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	3-F	414	LEU	N-CA	-5.19	1.40	1.46
2	3-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	4-F	414	LEU	N-CA	-5.19	1.40	1.46
2	4-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	5-F	414	LEU	N-CA	-5.19	1.40	1.46
2	5-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	6-F	414	LEU	N-CA	-5.19	1.40	1.46
2	6-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	7-F	414	LEU	N-CA	-5.19	1.40	1.46
2	7-U	8	GLU	CA-CB	-5.19	1.45	1.53
4	8-F	414	LEU	N-CA	-5.19	1.40	1.46
2	8-U	8	GLU	CA-CB	-5.19	1.45	1.53
3	1-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	1-X	414	LEU	N-CA	-5.19	1.40	1.46
3	2-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	2-X	414	LEU	N-CA	-5.19	1.40	1.46
3	3-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	3-X	414	LEU	N-CA	-5.19	1.40	1.46
3	4-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	4-X	414	LEU	N-CA	-5.19	1.40	1.46
3	5-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	5-X	414	LEU	N-CA	-5.19	1.40	1.46
3	6-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	6-X	414	LEU	N-CA	-5.19	1.40	1.46
3	7-P	1452	LEU	CA-C	-5.19	1.46	1.52
4	7-X	414	LEU	N-CA	-5.19	1.40	1.46
3	8-P	1452	LEU	CA-C	-5.19	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-X	414	LEU	N-CA	-5.19	1.40	1.46
4	1-R	414	LEU	N-CA	-5.19	1.40	1.46
4	2-R	414	LEU	N-CA	-5.19	1.40	1.46
4	3-R	414	LEU	N-CA	-5.19	1.40	1.46
4	4-R	414	LEU	N-CA	-5.19	1.40	1.46
4	5-R	414	LEU	N-CA	-5.19	1.40	1.46
4	6-R	414	LEU	N-CA	-5.19	1.40	1.46
4	7-R	414	LEU	N-CA	-5.19	1.40	1.46
4	8-R	414	LEU	N-CA	-5.19	1.40	1.46
4	1-R	349	THR	CA-CB	5.19	1.61	1.53
4	2-R	349	THR	CA-CB	5.19	1.61	1.53
4	3-R	349	THR	CA-CB	5.19	1.61	1.53
4	4-R	349	THR	CA-CB	5.19	1.61	1.53
4	5-R	349	THR	CA-CB	5.19	1.61	1.53
4	6-R	349	THR	CA-CB	5.19	1.61	1.53
4	7-R	349	THR	CA-CB	5.19	1.61	1.53
4	8-R	349	THR	CA-CB	5.19	1.61	1.53
2	1-O	252	MET	CA-C	-5.19	1.45	1.52
2	1-U	252	MET	CA-C	-5.19	1.45	1.52
2	2-O	252	MET	CA-C	-5.19	1.45	1.52
2	2-U	252	MET	CA-C	-5.19	1.45	1.52
2	3-O	252	MET	CA-C	-5.19	1.45	1.52
2	3-U	252	MET	CA-C	-5.19	1.45	1.52
2	4-O	252	MET	CA-C	-5.19	1.45	1.52
2	4-U	252	MET	CA-C	-5.19	1.45	1.52
2	5-O	252	MET	CA-C	-5.19	1.45	1.52
2	5-U	252	MET	CA-C	-5.19	1.45	1.52
2	6-O	252	MET	CA-C	-5.19	1.45	1.52
2	6-U	252	MET	CA-C	-5.19	1.45	1.52
2	7-O	252	MET	CA-C	-5.19	1.45	1.52
2	7-U	252	MET	CA-C	-5.19	1.45	1.52
2	8-O	252	MET	CA-C	-5.19	1.45	1.52
2	8-U	252	MET	CA-C	-5.19	1.45	1.52
6	1-N	470	PRO	N-CA	-5.18	1.40	1.47
6	2-N	470	PRO	N-CA	-5.18	1.40	1.47
6	3-N	470	PRO	N-CA	-5.18	1.40	1.47
6	4-N	470	PRO	N-CA	-5.18	1.40	1.47
6	5-N	470	PRO	N-CA	-5.18	1.40	1.47
6	6-N	470	PRO	N-CA	-5.18	1.40	1.47
6	7-N	470	PRO	N-CA	-5.18	1.40	1.47
6	8-N	470	PRO	N-CA	-5.18	1.40	1.47
4	1-L	440	MET	CA-C	5.18	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-X	440	MET	CA-C	5.18	1.59	1.52
4	2-L	440	MET	CA-C	5.18	1.59	1.52
4	2-X	440	MET	CA-C	5.18	1.59	1.52
4	3-L	440	MET	CA-C	5.18	1.59	1.52
4	3-X	440	MET	CA-C	5.18	1.59	1.52
4	4-L	440	MET	CA-C	5.18	1.59	1.52
4	4-X	440	MET	CA-C	5.18	1.59	1.52
4	5-L	440	MET	CA-C	5.18	1.59	1.52
4	5-X	440	MET	CA-C	5.18	1.59	1.52
4	6-L	440	MET	CA-C	5.18	1.59	1.52
4	6-X	440	MET	CA-C	5.18	1.59	1.52
4	7-L	440	MET	CA-C	5.18	1.59	1.52
4	7-X	440	MET	CA-C	5.18	1.59	1.52
4	8-L	440	MET	CA-C	5.18	1.59	1.52
4	8-X	440	MET	CA-C	5.18	1.59	1.52
2	1-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	1-X	411	ARG	CA-CB	5.17	1.61	1.53
2	2-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	2-X	411	ARG	CA-CB	5.17	1.61	1.53
2	3-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	3-X	411	ARG	CA-CB	5.17	1.61	1.53
2	4-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	4-X	411	ARG	CA-CB	5.17	1.61	1.53
2	5-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	5-X	411	ARG	CA-CB	5.17	1.61	1.53
2	6-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	6-X	411	ARG	CA-CB	5.17	1.61	1.53
2	7-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	7-X	411	ARG	CA-CB	5.17	1.61	1.53
2	8-O	8	GLU	CA-CB	-5.17	1.45	1.53
4	8-X	411	ARG	CA-CB	5.17	1.61	1.53
4	1-R	440	MET	CA-C	5.17	1.59	1.52
4	2-R	440	MET	CA-C	5.17	1.59	1.52
4	3-R	440	MET	CA-C	5.17	1.59	1.52
4	4-R	440	MET	CA-C	5.17	1.59	1.52
4	5-R	440	MET	CA-C	5.17	1.59	1.52
4	6-R	440	MET	CA-C	5.17	1.59	1.52
4	7-R	440	MET	CA-C	5.17	1.59	1.52
4	8-R	440	MET	CA-C	5.17	1.59	1.52
5	1-S	334	GLY	N-CA	-5.17	1.39	1.45
5	1-Y	397	VAL	C-N	5.17	1.41	1.33
5	2-S	334	GLY	N-CA	-5.17	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	2-Y	397	VAL	C-N	5.17	1.41	1.33
5	3-S	334	GLY	N-CA	-5.17	1.39	1.45
5	3-Y	397	VAL	C-N	5.17	1.41	1.33
5	4-S	334	GLY	N-CA	-5.17	1.39	1.45
5	4-Y	397	VAL	C-N	5.17	1.41	1.33
5	5-S	334	GLY	N-CA	-5.17	1.39	1.45
5	5-Y	397	VAL	C-N	5.17	1.41	1.33
5	6-S	334	GLY	N-CA	-5.17	1.39	1.45
5	6-Y	397	VAL	C-N	5.17	1.41	1.33
5	7-S	334	GLY	N-CA	-5.17	1.39	1.45
5	7-Y	397	VAL	C-N	5.17	1.41	1.33
5	8-S	334	GLY	N-CA	-5.17	1.39	1.45
5	8-Y	397	VAL	C-N	5.17	1.41	1.33
2	1-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	2-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	3-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	4-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	5-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	6-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	7-C	8	GLU	CA-CB	-5.17	1.45	1.53
2	8-C	8	GLU	CA-CB	-5.17	1.45	1.53
3	1-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	2-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	3-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	4-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	5-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	6-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	7-J	1524	VAL	N-CA	-5.17	1.40	1.46
3	8-J	1524	VAL	N-CA	-5.17	1.40	1.46
6	1-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	2-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	3-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	4-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	5-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	6-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	7-Z	470	PRO	N-CA	-5.16	1.40	1.47
6	8-Z	470	PRO	N-CA	-5.16	1.40	1.47
2	1-C	252	MET	CA-C	-5.16	1.45	1.52
2	1-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	2-C	252	MET	CA-C	-5.16	1.45	1.52
2	2-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	3-C	252	MET	CA-C	-5.16	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	3-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	4-C	252	MET	CA-C	-5.16	1.45	1.52
2	4-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	5-C	252	MET	CA-C	-5.16	1.45	1.52
2	5-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	6-C	252	MET	CA-C	-5.16	1.45	1.52
2	6-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	7-C	252	MET	CA-C	-5.16	1.45	1.52
2	7-I	8	GLU	CA-CB	-5.16	1.45	1.53
2	8-C	252	MET	CA-C	-5.16	1.45	1.52
2	8-I	8	GLU	CA-CB	-5.16	1.45	1.53
3	1-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	1-R	411	ARG	CA-CB	5.16	1.61	1.53
4	1-X	349	THR	CA-CB	5.16	1.61	1.53
3	2-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	2-R	411	ARG	CA-CB	5.16	1.61	1.53
4	2-X	349	THR	CA-CB	5.16	1.61	1.53
3	3-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	3-R	411	ARG	CA-CB	5.16	1.61	1.53
4	3-X	349	THR	CA-CB	5.16	1.61	1.53
3	4-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	4-R	411	ARG	CA-CB	5.16	1.61	1.53
4	4-X	349	THR	CA-CB	5.16	1.61	1.53
3	5-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	5-R	411	ARG	CA-CB	5.16	1.61	1.53
4	5-X	349	THR	CA-CB	5.16	1.61	1.53
3	6-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	6-R	411	ARG	CA-CB	5.16	1.61	1.53
4	6-X	349	THR	CA-CB	5.16	1.61	1.53
3	7-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	7-R	411	ARG	CA-CB	5.16	1.61	1.53
4	7-X	349	THR	CA-CB	5.16	1.61	1.53
3	8-P	1524	VAL	N-CA	-5.16	1.40	1.46
4	8-R	411	ARG	CA-CB	5.16	1.61	1.53
4	8-X	349	THR	CA-CB	5.16	1.61	1.53
4	1-L	349	THR	CA-CB	5.16	1.61	1.53
4	2-L	349	THR	CA-CB	5.16	1.61	1.53
4	3-L	349	THR	CA-CB	5.16	1.61	1.53
4	4-L	349	THR	CA-CB	5.16	1.61	1.53
4	5-L	349	THR	CA-CB	5.16	1.61	1.53
4	6-L	349	THR	CA-CB	5.16	1.61	1.53
4	7-L	349	THR	CA-CB	5.16	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-L	349	THR	CA-CB	5.16	1.61	1.53
3	1-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	1-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	1-F	411	ARG	CA-CB	5.16	1.61	1.53
3	2-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	2-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	2-F	411	ARG	CA-CB	5.16	1.61	1.53
3	3-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	3-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	3-F	411	ARG	CA-CB	5.16	1.61	1.53
3	4-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	4-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	4-F	411	ARG	CA-CB	5.16	1.61	1.53
3	5-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	5-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	5-F	411	ARG	CA-CB	5.16	1.61	1.53
3	6-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	6-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	6-F	411	ARG	CA-CB	5.16	1.61	1.53
3	7-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	7-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	7-F	411	ARG	CA-CB	5.16	1.61	1.53
3	8-D	1524	VAL	N-CA	-5.16	1.40	1.46
4	8-F	341	ASP	CA-CB	-5.16	1.44	1.53
4	8-F	411	ARG	CA-CB	5.16	1.61	1.53
4	1-F	447	VAL	N-CA	-5.15	1.40	1.46
5	1-G	260	LYS	CA-C	5.15	1.59	1.52
6	1-H	470	PRO	N-CA	-5.15	1.40	1.47
4	1-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	2-F	447	VAL	N-CA	-5.15	1.40	1.46
5	2-G	260	LYS	CA-C	5.15	1.59	1.52
6	2-H	470	PRO	N-CA	-5.15	1.40	1.47
4	2-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	3-F	447	VAL	N-CA	-5.15	1.40	1.46
5	3-G	260	LYS	CA-C	5.15	1.59	1.52
6	3-H	470	PRO	N-CA	-5.15	1.40	1.47
4	3-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	4-F	447	VAL	N-CA	-5.15	1.40	1.46
5	4-G	260	LYS	CA-C	5.15	1.59	1.52
6	4-H	470	PRO	N-CA	-5.15	1.40	1.47
4	4-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	5-F	447	VAL	N-CA	-5.15	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-G	260	LYS	CA-C	5.15	1.59	1.52
6	5-H	470	PRO	N-CA	-5.15	1.40	1.47
4	5-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	6-F	447	VAL	N-CA	-5.15	1.40	1.46
5	6-G	260	LYS	CA-C	5.15	1.59	1.52
6	6-H	470	PRO	N-CA	-5.15	1.40	1.47
4	6-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	7-F	447	VAL	N-CA	-5.15	1.40	1.46
5	7-G	260	LYS	CA-C	5.15	1.59	1.52
6	7-H	470	PRO	N-CA	-5.15	1.40	1.47
4	7-L	341	ASP	CA-CB	-5.15	1.44	1.53
4	8-F	447	VAL	N-CA	-5.15	1.40	1.46
5	8-G	260	LYS	CA-C	5.15	1.59	1.52
6	8-H	470	PRO	N-CA	-5.15	1.40	1.47
4	8-L	341	ASP	CA-CB	-5.15	1.44	1.53
3	1-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	1-M	330	LYS	N-CA	-5.15	1.40	1.46
3	2-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	2-M	330	LYS	N-CA	-5.15	1.40	1.46
3	3-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	3-M	330	LYS	N-CA	-5.15	1.40	1.46
3	4-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	4-M	330	LYS	N-CA	-5.15	1.40	1.46
3	5-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	5-M	330	LYS	N-CA	-5.15	1.40	1.46
3	6-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	6-M	330	LYS	N-CA	-5.15	1.40	1.46
3	7-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	7-M	330	LYS	N-CA	-5.15	1.40	1.46
3	8-D	1477	LEU	N-CA	-5.15	1.39	1.46
5	8-M	330	LYS	N-CA	-5.15	1.40	1.46
3	1-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	2-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	3-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	4-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	5-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	6-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	7-V	1524	VAL	N-CA	-5.15	1.40	1.46
3	8-V	1524	VAL	N-CA	-5.15	1.40	1.46
4	1-L	447	VAL	N-CA	-5.15	1.40	1.46
4	2-L	447	VAL	N-CA	-5.15	1.40	1.46
4	3-L	447	VAL	N-CA	-5.15	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	4-L	447	VAL	N-CA	-5.15	1.40	1.46
4	5-L	447	VAL	N-CA	-5.15	1.40	1.46
4	6-L	447	VAL	N-CA	-5.15	1.40	1.46
4	7-L	447	VAL	N-CA	-5.15	1.40	1.46
4	8-L	447	VAL	N-CA	-5.15	1.40	1.46
4	1-F	349	THR	CA-CB	5.14	1.61	1.53
3	1-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	1-N	453	ASP	C-N	5.14	1.40	1.33
4	2-F	349	THR	CA-CB	5.14	1.61	1.53
3	2-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	2-N	453	ASP	C-N	5.14	1.40	1.33
4	3-F	349	THR	CA-CB	5.14	1.61	1.53
3	3-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	3-N	453	ASP	C-N	5.14	1.40	1.33
4	4-F	349	THR	CA-CB	5.14	1.61	1.53
3	4-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	4-N	453	ASP	C-N	5.14	1.40	1.33
4	5-F	349	THR	CA-CB	5.14	1.61	1.53
3	5-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	5-N	453	ASP	C-N	5.14	1.40	1.33
4	6-F	349	THR	CA-CB	5.14	1.61	1.53
3	6-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	6-N	453	ASP	C-N	5.14	1.40	1.33
4	7-F	349	THR	CA-CB	5.14	1.61	1.53
3	7-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	7-N	453	ASP	C-N	5.14	1.40	1.33
4	8-F	349	THR	CA-CB	5.14	1.61	1.53
3	8-J	1477	LEU	N-CA	-5.14	1.39	1.46
6	8-N	453	ASP	C-N	5.14	1.40	1.33
5	1-M	260	LYS	CA-C	5.14	1.59	1.52
5	1-M	353	PHE	N-CA	-5.14	1.39	1.46
5	2-M	260	LYS	CA-C	5.14	1.59	1.52
5	2-M	353	PHE	N-CA	-5.14	1.39	1.46
5	3-M	260	LYS	CA-C	5.14	1.59	1.52
5	3-M	353	PHE	N-CA	-5.14	1.39	1.46
5	4-M	260	LYS	CA-C	5.14	1.59	1.52
5	4-M	353	PHE	N-CA	-5.14	1.39	1.46
5	5-M	260	LYS	CA-C	5.14	1.59	1.52
5	5-M	353	PHE	N-CA	-5.14	1.39	1.46
5	6-M	260	LYS	CA-C	5.14	1.59	1.52
5	6-M	353	PHE	N-CA	-5.14	1.39	1.46
5	7-M	260	LYS	CA-C	5.14	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	7-M	353	PHE	N-CA	-5.14	1.39	1.46
5	8-M	260	LYS	CA-C	5.14	1.59	1.52
5	8-M	353	PHE	N-CA	-5.14	1.39	1.46
4	1-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	1-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	2-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	2-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	3-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	3-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	4-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	4-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	5-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	5-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	6-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	6-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	7-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	7-Y	334	GLY	N-CA	-5.14	1.39	1.45
4	8-R	341	ASP	CA-CB	-5.14	1.44	1.53
5	8-Y	334	GLY	N-CA	-5.14	1.39	1.45
5	1-M	334	GLY	N-CA	-5.14	1.39	1.45
5	2-M	334	GLY	N-CA	-5.14	1.39	1.45
5	3-M	334	GLY	N-CA	-5.14	1.39	1.45
5	4-M	334	GLY	N-CA	-5.14	1.39	1.45
5	5-M	334	GLY	N-CA	-5.14	1.39	1.45
5	6-M	334	GLY	N-CA	-5.14	1.39	1.45
5	7-M	334	GLY	N-CA	-5.14	1.39	1.45
5	8-M	334	GLY	N-CA	-5.14	1.39	1.45
6	1-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	1-Z	453	ASP	C-N	5.13	1.40	1.33
6	2-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	2-Z	453	ASP	C-N	5.13	1.40	1.33
6	3-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	3-Z	453	ASP	C-N	5.13	1.40	1.33
6	4-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	4-Z	453	ASP	C-N	5.13	1.40	1.33
6	5-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	5-Z	453	ASP	C-N	5.13	1.40	1.33
6	6-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	6-Z	453	ASP	C-N	5.13	1.40	1.33
6	7-Z	349	ARG	CA-CB	5.13	1.61	1.53
6	7-Z	453	ASP	C-N	5.13	1.40	1.33
6	8-Z	349	ARG	CA-CB	5.13	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	8-Z	453	ASP	C-N	5.13	1.40	1.33
3	1-P	1661	ARG	C-N	5.13	1.40	1.33
3	2-P	1661	ARG	C-N	5.13	1.40	1.33
3	3-P	1661	ARG	C-N	5.13	1.40	1.33
3	4-P	1661	ARG	C-N	5.13	1.40	1.33
3	5-P	1661	ARG	C-N	5.13	1.40	1.33
3	6-P	1661	ARG	C-N	5.13	1.40	1.33
3	7-P	1661	ARG	C-N	5.13	1.40	1.33
3	8-P	1661	ARG	C-N	5.13	1.40	1.33
4	1-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	1-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	2-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	2-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	3-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	3-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	4-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	4-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	5-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	5-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	6-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	6-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	7-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	7-Y	353	PHE	N-CA	-5.13	1.39	1.46
4	8-X	341	ASP	CA-CB	-5.13	1.44	1.53
5	8-Y	353	PHE	N-CA	-5.13	1.39	1.46
3	1-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	1-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	2-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	2-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	3-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	3-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	4-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	4-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	5-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	5-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	6-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	6-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	7-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	7-V	1477	LEU	N-CA	-5.13	1.39	1.46
3	8-J	1502	ARG	CA-C	-5.13	1.46	1.52
3	8-V	1477	LEU	N-CA	-5.13	1.39	1.46
5	1-G	334	GLY	N-CA	-5.12	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	1-H	453	ASP	C-N	5.12	1.40	1.33
5	1-M	329	GLN	C-N	5.12	1.40	1.33
5	2-G	334	GLY	N-CA	-5.12	1.39	1.45
6	2-H	453	ASP	C-N	5.12	1.40	1.33
5	2-M	329	GLN	C-N	5.12	1.40	1.33
5	3-G	334	GLY	N-CA	-5.12	1.39	1.45
6	3-H	453	ASP	C-N	5.12	1.40	1.33
5	3-M	329	GLN	C-N	5.12	1.40	1.33
5	4-G	334	GLY	N-CA	-5.12	1.39	1.45
6	4-H	453	ASP	C-N	5.12	1.40	1.33
5	4-M	329	GLN	C-N	5.12	1.40	1.33
5	5-G	334	GLY	N-CA	-5.12	1.39	1.45
6	5-H	453	ASP	C-N	5.12	1.40	1.33
5	5-M	329	GLN	C-N	5.12	1.40	1.33
5	6-G	334	GLY	N-CA	-5.12	1.39	1.45
6	6-H	453	ASP	C-N	5.12	1.40	1.33
5	6-M	329	GLN	C-N	5.12	1.40	1.33
5	7-G	334	GLY	N-CA	-5.12	1.39	1.45
6	7-H	453	ASP	C-N	5.12	1.40	1.33
5	7-M	329	GLN	C-N	5.12	1.40	1.33
5	8-G	334	GLY	N-CA	-5.12	1.39	1.45
6	8-H	453	ASP	C-N	5.12	1.40	1.33
5	8-M	329	GLN	C-N	5.12	1.40	1.33
3	1-J	1661	ARG	C-N	5.12	1.40	1.33
4	1-R	467	LEU	C-N	5.12	1.40	1.33
3	2-J	1661	ARG	C-N	5.12	1.40	1.33
4	2-R	467	LEU	C-N	5.12	1.40	1.33
3	3-J	1661	ARG	C-N	5.12	1.40	1.33
4	3-R	467	LEU	C-N	5.12	1.40	1.33
3	4-J	1661	ARG	C-N	5.12	1.40	1.33
4	4-R	467	LEU	C-N	5.12	1.40	1.33
3	5-J	1661	ARG	C-N	5.12	1.40	1.33
4	5-R	467	LEU	C-N	5.12	1.40	1.33
3	6-J	1661	ARG	C-N	5.12	1.40	1.33
4	6-R	467	LEU	C-N	5.12	1.40	1.33
3	7-J	1661	ARG	C-N	5.12	1.40	1.33
4	7-R	467	LEU	C-N	5.12	1.40	1.33
3	8-J	1661	ARG	C-N	5.12	1.40	1.33
4	8-R	467	LEU	C-N	5.12	1.40	1.33
6	1-T	453	ASP	C-N	5.12	1.40	1.33
6	2-T	453	ASP	C-N	5.12	1.40	1.33
6	3-T	453	ASP	C-N	5.12	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4-T	453	ASP	C-N	5.12	1.40	1.33
6	5-T	453	ASP	C-N	5.12	1.40	1.33
6	6-T	453	ASP	C-N	5.12	1.40	1.33
6	7-T	453	ASP	C-N	5.12	1.40	1.33
6	8-T	453	ASP	C-N	5.12	1.40	1.33
3	1-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	1-V	1661	ARG	C-N	5.12	1.40	1.33
5	1-Y	260	LYS	CA-C	5.12	1.59	1.52
3	2-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	2-V	1661	ARG	C-N	5.12	1.40	1.33
5	2-Y	260	LYS	CA-C	5.12	1.59	1.52
3	3-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	3-V	1661	ARG	C-N	5.12	1.40	1.33
5	3-Y	260	LYS	CA-C	5.12	1.59	1.52
3	4-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	4-V	1661	ARG	C-N	5.12	1.40	1.33
5	4-Y	260	LYS	CA-C	5.12	1.59	1.52
3	5-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	5-V	1661	ARG	C-N	5.12	1.40	1.33
5	5-Y	260	LYS	CA-C	5.12	1.59	1.52
3	6-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	6-V	1661	ARG	C-N	5.12	1.40	1.33
5	6-Y	260	LYS	CA-C	5.12	1.59	1.52
3	7-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	7-V	1661	ARG	C-N	5.12	1.40	1.33
5	7-Y	260	LYS	CA-C	5.12	1.59	1.52
3	8-P	1477	LEU	N-CA	-5.12	1.39	1.46
3	8-V	1661	ARG	C-N	5.12	1.40	1.33
5	8-Y	260	LYS	CA-C	5.12	1.59	1.52
4	1-R	398	LYS	CA-C	-5.11	1.45	1.52
5	1-S	411	LYS	N-CA	-5.11	1.40	1.46
4	1-X	447	VAL	N-CA	-5.11	1.40	1.46
4	2-R	398	LYS	CA-C	-5.11	1.45	1.52
5	2-S	411	LYS	N-CA	-5.11	1.40	1.46
4	2-X	447	VAL	N-CA	-5.11	1.40	1.46
4	3-R	398	LYS	CA-C	-5.11	1.45	1.52
5	3-S	411	LYS	N-CA	-5.11	1.40	1.46
4	3-X	447	VAL	N-CA	-5.11	1.40	1.46
4	4-R	398	LYS	CA-C	-5.11	1.45	1.52
5	4-S	411	LYS	N-CA	-5.11	1.40	1.46
4	4-X	447	VAL	N-CA	-5.11	1.40	1.46
4	5-R	398	LYS	CA-C	-5.11	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	5-S	411	LYS	N-CA	-5.11	1.40	1.46
4	5-X	447	VAL	N-CA	-5.11	1.40	1.46
4	6-R	398	LYS	CA-C	-5.11	1.45	1.52
5	6-S	411	LYS	N-CA	-5.11	1.40	1.46
4	6-X	447	VAL	N-CA	-5.11	1.40	1.46
4	7-R	398	LYS	CA-C	-5.11	1.45	1.52
5	7-S	411	LYS	N-CA	-5.11	1.40	1.46
4	7-X	447	VAL	N-CA	-5.11	1.40	1.46
4	8-R	398	LYS	CA-C	-5.11	1.45	1.52
5	8-S	411	LYS	N-CA	-5.11	1.40	1.46
4	8-X	447	VAL	N-CA	-5.11	1.40	1.46
3	1-V	1506	VAL	C-O	5.11	1.30	1.24
5	1-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	2-V	1506	VAL	C-O	5.11	1.30	1.24
5	2-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	3-V	1506	VAL	C-O	5.11	1.30	1.24
5	3-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	4-V	1506	VAL	C-O	5.11	1.30	1.24
5	4-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	5-V	1506	VAL	C-O	5.11	1.30	1.24
5	5-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	6-V	1506	VAL	C-O	5.11	1.30	1.24
5	6-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	7-V	1506	VAL	C-O	5.11	1.30	1.24
5	7-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	8-V	1506	VAL	C-O	5.11	1.30	1.24
5	8-Y	411	LYS	N-CA	-5.11	1.40	1.46
3	1-D	1661	ARG	C-N	5.10	1.40	1.33
5	1-S	353	PHE	N-CA	-5.10	1.39	1.46
3	2-D	1661	ARG	C-N	5.10	1.40	1.33
5	2-S	353	PHE	N-CA	-5.10	1.39	1.46
3	3-D	1661	ARG	C-N	5.10	1.40	1.33
5	3-S	353	PHE	N-CA	-5.10	1.39	1.46
3	4-D	1661	ARG	C-N	5.10	1.40	1.33
5	4-S	353	PHE	N-CA	-5.10	1.39	1.46
3	5-D	1661	ARG	C-N	5.10	1.40	1.33
5	5-S	353	PHE	N-CA	-5.10	1.39	1.46
3	6-D	1661	ARG	C-N	5.10	1.40	1.33
5	6-S	353	PHE	N-CA	-5.10	1.39	1.46
3	7-D	1661	ARG	C-N	5.10	1.40	1.33
5	7-S	353	PHE	N-CA	-5.10	1.39	1.46
3	8-D	1661	ARG	C-N	5.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-S	353	PHE	N-CA	-5.10	1.39	1.46
4	1-L	399	SER	C-O	-5.10	1.17	1.24
4	1-R	447	VAL	N-CA	-5.10	1.40	1.46
4	2-L	399	SER	C-O	-5.10	1.17	1.24
4	2-R	447	VAL	N-CA	-5.10	1.40	1.46
4	3-L	399	SER	C-O	-5.10	1.17	1.24
4	3-R	447	VAL	N-CA	-5.10	1.40	1.46
4	4-L	399	SER	C-O	-5.10	1.17	1.24
4	4-R	447	VAL	N-CA	-5.10	1.40	1.46
4	5-L	399	SER	C-O	-5.10	1.17	1.24
4	5-R	447	VAL	N-CA	-5.10	1.40	1.46
4	6-L	399	SER	C-O	-5.10	1.17	1.24
4	6-R	447	VAL	N-CA	-5.10	1.40	1.46
4	7-L	399	SER	C-O	-5.10	1.17	1.24
4	7-R	447	VAL	N-CA	-5.10	1.40	1.46
4	8-L	399	SER	C-O	-5.10	1.17	1.24
4	8-R	447	VAL	N-CA	-5.10	1.40	1.46
6	1-T	470	PRO	N-CA	-5.10	1.40	1.47
6	2-T	470	PRO	N-CA	-5.10	1.40	1.47
6	3-T	470	PRO	N-CA	-5.10	1.40	1.47
6	4-T	470	PRO	N-CA	-5.10	1.40	1.47
6	5-T	470	PRO	N-CA	-5.10	1.40	1.47
6	6-T	470	PRO	N-CA	-5.10	1.40	1.47
6	7-T	470	PRO	N-CA	-5.10	1.40	1.47
6	8-T	470	PRO	N-CA	-5.10	1.40	1.47
6	1-T	349	ARG	CA-CB	5.09	1.61	1.53
3	1-V	1491	ILE	CA-C	5.09	1.59	1.52
6	2-T	349	ARG	CA-CB	5.09	1.61	1.53
3	2-V	1491	ILE	CA-C	5.09	1.59	1.52
6	3-T	349	ARG	CA-CB	5.09	1.61	1.53
3	3-V	1491	ILE	CA-C	5.09	1.59	1.52
6	4-T	349	ARG	CA-CB	5.09	1.61	1.53
3	4-V	1491	ILE	CA-C	5.09	1.59	1.52
6	5-T	349	ARG	CA-CB	5.09	1.61	1.53
3	5-V	1491	ILE	CA-C	5.09	1.59	1.52
6	6-T	349	ARG	CA-CB	5.09	1.61	1.53
3	6-V	1491	ILE	CA-C	5.09	1.59	1.52
6	7-T	349	ARG	CA-CB	5.09	1.61	1.53
3	7-V	1491	ILE	CA-C	5.09	1.59	1.52
6	8-T	349	ARG	CA-CB	5.09	1.61	1.53
3	8-V	1491	ILE	CA-C	5.09	1.59	1.52
4	1-F	399	SER	C-O	-5.09	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	1-U	8	GLU	N-CA	-5.09	1.39	1.46
5	1-Y	329	GLN	C-N	5.09	1.40	1.33
4	2-F	399	SER	C-O	-5.09	1.17	1.24
2	2-U	8	GLU	N-CA	-5.09	1.39	1.46
5	2-Y	329	GLN	C-N	5.09	1.40	1.33
4	3-F	399	SER	C-O	-5.09	1.17	1.24
2	3-U	8	GLU	N-CA	-5.09	1.39	1.46
5	3-Y	329	GLN	C-N	5.09	1.40	1.33
4	4-F	399	SER	C-O	-5.09	1.17	1.24
2	4-U	8	GLU	N-CA	-5.09	1.39	1.46
5	4-Y	329	GLN	C-N	5.09	1.40	1.33
4	5-F	399	SER	C-O	-5.09	1.17	1.24
2	5-U	8	GLU	N-CA	-5.09	1.39	1.46
5	5-Y	329	GLN	C-N	5.09	1.40	1.33
4	6-F	399	SER	C-O	-5.09	1.17	1.24
2	6-U	8	GLU	N-CA	-5.09	1.39	1.46
5	6-Y	329	GLN	C-N	5.09	1.40	1.33
4	7-F	399	SER	C-O	-5.09	1.17	1.24
2	7-U	8	GLU	N-CA	-5.09	1.39	1.46
5	7-Y	329	GLN	C-N	5.09	1.40	1.33
4	8-F	399	SER	C-O	-5.09	1.17	1.24
2	8-U	8	GLU	N-CA	-5.09	1.39	1.46
5	8-Y	329	GLN	C-N	5.09	1.40	1.33
3	1-J	1472	SER	C-O	5.09	1.29	1.24
3	2-J	1472	SER	C-O	5.09	1.29	1.24
3	3-J	1472	SER	C-O	5.09	1.29	1.24
3	4-J	1472	SER	C-O	5.09	1.29	1.24
3	5-J	1472	SER	C-O	5.09	1.29	1.24
3	6-J	1472	SER	C-O	5.09	1.29	1.24
3	7-J	1472	SER	C-O	5.09	1.29	1.24
3	8-J	1472	SER	C-O	5.09	1.29	1.24
5	1-M	411	LYS	N-CA	-5.08	1.40	1.46
3	1-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	2-M	411	LYS	N-CA	-5.08	1.40	1.46
3	2-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	3-M	411	LYS	N-CA	-5.08	1.40	1.46
3	3-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	4-M	411	LYS	N-CA	-5.08	1.40	1.46
3	4-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	5-M	411	LYS	N-CA	-5.08	1.40	1.46
3	5-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	6-M	411	LYS	N-CA	-5.08	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	7-M	411	LYS	N-CA	-5.08	1.40	1.46
3	7-V	1540	LEU	N-CA	-5.08	1.40	1.46
5	8-M	411	LYS	N-CA	-5.08	1.40	1.46
3	8-V	1540	LEU	N-CA	-5.08	1.40	1.46
3	1-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	1-H	349	ARG	CA-CB	5.08	1.61	1.53
4	1-R	399	SER	C-O	-5.08	1.17	1.24
3	2-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	2-H	349	ARG	CA-CB	5.08	1.61	1.53
4	2-R	399	SER	C-O	-5.08	1.17	1.24
3	3-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	3-H	349	ARG	CA-CB	5.08	1.61	1.53
4	3-R	399	SER	C-O	-5.08	1.17	1.24
3	4-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	4-H	349	ARG	CA-CB	5.08	1.61	1.53
4	4-R	399	SER	C-O	-5.08	1.17	1.24
3	5-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	5-H	349	ARG	CA-CB	5.08	1.61	1.53
4	5-R	399	SER	C-O	-5.08	1.17	1.24
3	6-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	6-H	349	ARG	CA-CB	5.08	1.61	1.53
4	6-R	399	SER	C-O	-5.08	1.17	1.24
3	7-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	7-H	349	ARG	CA-CB	5.08	1.61	1.53
4	7-R	399	SER	C-O	-5.08	1.17	1.24
3	8-D	1540	LEU	N-CA	-5.08	1.40	1.46
6	8-H	349	ARG	CA-CB	5.08	1.61	1.53
4	8-R	399	SER	C-O	-5.08	1.17	1.24
3	1-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	2-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	3-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	4-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	5-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	6-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	7-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	8-V	1502	ARG	CA-C	-5.08	1.46	1.52
3	1-D	1472	SER	C-O	5.08	1.29	1.24
4	1-X	467	LEU	C-N	5.08	1.40	1.33
6	1-Z	341	SER	CA-C	5.08	1.59	1.52
3	2-D	1472	SER	C-O	5.08	1.29	1.24
4	2-X	467	LEU	C-N	5.08	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	2-Z	341	SER	CA-C	5.08	1.59	1.52
3	3-D	1472	SER	C-O	5.08	1.29	1.24
4	3-X	467	LEU	C-N	5.08	1.40	1.33
6	3-Z	341	SER	CA-C	5.08	1.59	1.52
3	4-D	1472	SER	C-O	5.08	1.29	1.24
4	4-X	467	LEU	C-N	5.08	1.40	1.33
6	4-Z	341	SER	CA-C	5.08	1.59	1.52
3	5-D	1472	SER	C-O	5.08	1.29	1.24
4	5-X	467	LEU	C-N	5.08	1.40	1.33
6	5-Z	341	SER	CA-C	5.08	1.59	1.52
3	6-D	1472	SER	C-O	5.08	1.29	1.24
4	6-X	467	LEU	C-N	5.08	1.40	1.33
6	6-Z	341	SER	CA-C	5.08	1.59	1.52
3	7-D	1472	SER	C-O	5.08	1.29	1.24
4	7-X	467	LEU	C-N	5.08	1.40	1.33
6	7-Z	341	SER	CA-C	5.08	1.59	1.52
3	8-D	1472	SER	C-O	5.08	1.29	1.24
4	8-X	467	LEU	C-N	5.08	1.40	1.33
6	8-Z	341	SER	CA-C	5.08	1.59	1.52
4	1-F	490	LEU	C-N	-5.07	1.28	1.34
4	2-F	490	LEU	C-N	-5.07	1.28	1.34
4	3-F	490	LEU	C-N	-5.07	1.28	1.34
4	4-F	490	LEU	C-N	-5.07	1.28	1.34
4	5-F	490	LEU	C-N	-5.07	1.28	1.34
4	6-F	490	LEU	C-N	-5.07	1.28	1.34
4	7-F	490	LEU	C-N	-5.07	1.28	1.34
4	8-F	490	LEU	C-N	-5.07	1.28	1.34
3	1-D	1506	VAL	C-O	5.07	1.30	1.24
3	2-D	1506	VAL	C-O	5.07	1.30	1.24
3	3-D	1506	VAL	C-O	5.07	1.30	1.24
3	4-D	1506	VAL	C-O	5.07	1.30	1.24
3	5-D	1506	VAL	C-O	5.07	1.30	1.24
3	6-D	1506	VAL	C-O	5.07	1.30	1.24
3	7-D	1506	VAL	C-O	5.07	1.30	1.24
3	8-D	1506	VAL	C-O	5.07	1.30	1.24
3	1-D	1491	ILE	CA-C	5.07	1.59	1.52
5	1-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	1-I	8	GLU	N-CA	-5.07	1.40	1.46
3	2-D	1491	ILE	CA-C	5.07	1.59	1.52
5	2-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	2-I	8	GLU	N-CA	-5.07	1.40	1.46
3	3-D	1491	ILE	CA-C	5.07	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	3-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	3-I	8	GLU	N-CA	-5.07	1.40	1.46
3	4-D	1491	ILE	CA-C	5.07	1.59	1.52
5	4-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	4-I	8	GLU	N-CA	-5.07	1.40	1.46
3	5-D	1491	ILE	CA-C	5.07	1.59	1.52
5	5-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	5-I	8	GLU	N-CA	-5.07	1.40	1.46
3	6-D	1491	ILE	CA-C	5.07	1.59	1.52
5	6-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	6-I	8	GLU	N-CA	-5.07	1.40	1.46
3	7-D	1491	ILE	CA-C	5.07	1.59	1.52
5	7-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	7-I	8	GLU	N-CA	-5.07	1.40	1.46
3	8-D	1491	ILE	CA-C	5.07	1.59	1.52
5	8-G	272	ILE	CA-CB	-5.07	1.47	1.54
2	8-I	8	GLU	N-CA	-5.07	1.40	1.46
6	1-N	341	SER	CA-C	5.07	1.59	1.52
6	1-N	349	ARG	CA-CB	5.07	1.61	1.53
6	2-N	341	SER	CA-C	5.07	1.59	1.52
6	2-N	349	ARG	CA-CB	5.07	1.61	1.53
6	3-N	341	SER	CA-C	5.07	1.59	1.52
6	3-N	349	ARG	CA-CB	5.07	1.61	1.53
6	4-N	341	SER	CA-C	5.07	1.59	1.52
6	4-N	349	ARG	CA-CB	5.07	1.61	1.53
6	5-N	341	SER	CA-C	5.07	1.59	1.52
6	5-N	349	ARG	CA-CB	5.07	1.61	1.53
6	6-N	341	SER	CA-C	5.07	1.59	1.52
6	6-N	349	ARG	CA-CB	5.07	1.61	1.53
6	7-N	341	SER	CA-C	5.07	1.59	1.52
6	7-N	349	ARG	CA-CB	5.07	1.61	1.53
6	8-N	341	SER	CA-C	5.07	1.59	1.52
6	8-N	349	ARG	CA-CB	5.07	1.61	1.53
5	1-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	2-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	3-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	4-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	5-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	6-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	7-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	8-S	272	ILE	CA-CB	-5.07	1.47	1.54
5	1-G	330	LYS	N-CA	-5.07	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1-L	467	LEU	C-N	5.07	1.40	1.33
2	1-O	8	GLU	N-CA	-5.07	1.40	1.46
3	1-P	1506	VAL	C-O	5.07	1.30	1.24
5	1-S	330	LYS	N-CA	-5.07	1.40	1.46
3	1-V	1472	SER	C-O	5.07	1.29	1.24
4	1-X	398	LYS	CA-C	-5.07	1.45	1.52
4	1-X	399	SER	C-O	-5.07	1.17	1.24
5	2-G	330	LYS	N-CA	-5.07	1.40	1.46
4	2-L	467	LEU	C-N	5.07	1.40	1.33
2	2-O	8	GLU	N-CA	-5.07	1.40	1.46
3	2-P	1506	VAL	C-O	5.07	1.30	1.24
5	2-S	330	LYS	N-CA	-5.07	1.40	1.46
3	2-V	1472	SER	C-O	5.07	1.29	1.24
4	2-X	398	LYS	CA-C	-5.07	1.45	1.52
4	2-X	399	SER	C-O	-5.07	1.17	1.24
5	3-G	330	LYS	N-CA	-5.07	1.40	1.46
4	3-L	467	LEU	C-N	5.07	1.40	1.33
2	3-O	8	GLU	N-CA	-5.07	1.40	1.46
3	3-P	1506	VAL	C-O	5.07	1.30	1.24
5	3-S	330	LYS	N-CA	-5.07	1.40	1.46
3	3-V	1472	SER	C-O	5.07	1.29	1.24
4	3-X	398	LYS	CA-C	-5.07	1.45	1.52
4	3-X	399	SER	C-O	-5.07	1.17	1.24
5	4-G	330	LYS	N-CA	-5.07	1.40	1.46
4	4-L	467	LEU	C-N	5.07	1.40	1.33
2	4-O	8	GLU	N-CA	-5.07	1.40	1.46
3	4-P	1506	VAL	C-O	5.07	1.30	1.24
5	4-S	330	LYS	N-CA	-5.07	1.40	1.46
3	4-V	1472	SER	C-O	5.07	1.29	1.24
4	4-X	398	LYS	CA-C	-5.07	1.45	1.52
4	4-X	399	SER	C-O	-5.07	1.17	1.24
5	5-G	330	LYS	N-CA	-5.07	1.40	1.46
4	5-L	467	LEU	C-N	5.07	1.40	1.33
2	5-O	8	GLU	N-CA	-5.07	1.40	1.46
3	5-P	1506	VAL	C-O	5.07	1.30	1.24
5	5-S	330	LYS	N-CA	-5.07	1.40	1.46
3	5-V	1472	SER	C-O	5.07	1.29	1.24
4	5-X	398	LYS	CA-C	-5.07	1.45	1.52
4	5-X	399	SER	C-O	-5.07	1.17	1.24
5	6-G	330	LYS	N-CA	-5.07	1.40	1.46
4	6-L	467	LEU	C-N	5.07	1.40	1.33
2	6-O	8	GLU	N-CA	-5.07	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-P	1506	VAL	C-O	5.07	1.30	1.24
5	6-S	330	LYS	N-CA	-5.07	1.40	1.46
3	6-V	1472	SER	C-O	5.07	1.29	1.24
4	6-X	398	LYS	CA-C	-5.07	1.45	1.52
4	6-X	399	SER	C-O	-5.07	1.17	1.24
5	7-G	330	LYS	N-CA	-5.07	1.40	1.46
4	7-L	467	LEU	C-N	5.07	1.40	1.33
2	7-O	8	GLU	N-CA	-5.07	1.40	1.46
3	7-P	1506	VAL	C-O	5.07	1.30	1.24
5	7-S	330	LYS	N-CA	-5.07	1.40	1.46
3	7-V	1472	SER	C-O	5.07	1.29	1.24
4	7-X	398	LYS	CA-C	-5.07	1.45	1.52
4	7-X	399	SER	C-O	-5.07	1.17	1.24
5	8-G	330	LYS	N-CA	-5.07	1.40	1.46
4	8-L	467	LEU	C-N	5.07	1.40	1.33
2	8-O	8	GLU	N-CA	-5.07	1.40	1.46
3	8-P	1506	VAL	C-O	5.07	1.30	1.24
5	8-S	330	LYS	N-CA	-5.07	1.40	1.46
3	8-V	1472	SER	C-O	5.07	1.29	1.24
4	8-X	398	LYS	CA-C	-5.07	1.45	1.52
4	8-X	399	SER	C-O	-5.07	1.17	1.24
5	1-G	411	LYS	N-CA	-5.06	1.40	1.46
4	1-L	398	LYS	CA-C	-5.06	1.45	1.52
5	1-Y	330	LYS	N-CA	-5.06	1.40	1.46
5	2-G	411	LYS	N-CA	-5.06	1.40	1.46
4	2-L	398	LYS	CA-C	-5.06	1.45	1.52
5	2-Y	330	LYS	N-CA	-5.06	1.40	1.46
5	3-G	411	LYS	N-CA	-5.06	1.40	1.46
4	3-L	398	LYS	CA-C	-5.06	1.45	1.52
5	3-Y	330	LYS	N-CA	-5.06	1.40	1.46
5	4-G	411	LYS	N-CA	-5.06	1.40	1.46
4	4-L	398	LYS	CA-C	-5.06	1.45	1.52
5	4-Y	330	LYS	N-CA	-5.06	1.40	1.46
5	5-G	411	LYS	N-CA	-5.06	1.40	1.46
4	5-L	398	LYS	CA-C	-5.06	1.45	1.52
5	5-Y	330	LYS	N-CA	-5.06	1.40	1.46
5	6-G	411	LYS	N-CA	-5.06	1.40	1.46
4	6-L	398	LYS	CA-C	-5.06	1.45	1.52
5	6-Y	330	LYS	N-CA	-5.06	1.40	1.46
5	7-G	411	LYS	N-CA	-5.06	1.40	1.46
4	7-L	398	LYS	CA-C	-5.06	1.45	1.52
5	7-Y	330	LYS	N-CA	-5.06	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	8-G	411	LYS	N-CA	-5.06	1.40	1.46
4	8-L	398	LYS	CA-C	-5.06	1.45	1.52
5	8-Y	330	LYS	N-CA	-5.06	1.40	1.46
4	1-F	398	LYS	CA-C	-5.06	1.45	1.52
5	1-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	2-F	398	LYS	CA-C	-5.06	1.45	1.52
5	2-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	3-F	398	LYS	CA-C	-5.06	1.45	1.52
5	3-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	4-F	398	LYS	CA-C	-5.06	1.45	1.52
5	4-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	5-F	398	LYS	CA-C	-5.06	1.45	1.52
5	5-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	6-F	398	LYS	CA-C	-5.06	1.45	1.52
5	6-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	7-F	398	LYS	CA-C	-5.06	1.45	1.52
5	7-Y	272	ILE	CA-CB	-5.06	1.47	1.54
4	8-F	398	LYS	CA-C	-5.06	1.45	1.52
5	8-Y	272	ILE	CA-CB	-5.06	1.47	1.54
3	1-D	1541	THR	C-N	-5.06	1.22	1.33
3	2-D	1541	THR	C-N	-5.06	1.22	1.33
3	3-D	1541	THR	C-N	-5.06	1.22	1.33
3	4-D	1541	THR	C-N	-5.06	1.22	1.33
3	5-D	1541	THR	C-N	-5.06	1.22	1.33
3	6-D	1541	THR	C-N	-5.06	1.22	1.33
3	7-D	1541	THR	C-N	-5.06	1.22	1.33
3	8-D	1541	THR	C-N	-5.06	1.22	1.33
4	1-F	467	LEU	C-N	5.06	1.40	1.33
4	2-F	467	LEU	C-N	5.06	1.40	1.33
4	3-F	467	LEU	C-N	5.06	1.40	1.33
4	4-F	467	LEU	C-N	5.06	1.40	1.33
4	5-F	467	LEU	C-N	5.06	1.40	1.33
4	6-F	467	LEU	C-N	5.06	1.40	1.33
4	7-F	467	LEU	C-N	5.06	1.40	1.33
4	8-F	467	LEU	C-N	5.06	1.40	1.33
2	1-C	8	GLU	N-CA	-5.05	1.40	1.46
3	1-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	1-J	1491	ILE	CA-C	5.05	1.59	1.52
3	1-V	1541	THR	C-N	-5.05	1.22	1.33
2	2-C	8	GLU	N-CA	-5.05	1.40	1.46
3	2-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	2-J	1491	ILE	CA-C	5.05	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	2-V	1541	THR	C-N	-5.05	1.22	1.33
2	3-C	8	GLU	N-CA	-5.05	1.40	1.46
3	3-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	3-J	1491	ILE	CA-C	5.05	1.59	1.52
3	3-V	1541	THR	C-N	-5.05	1.22	1.33
2	4-C	8	GLU	N-CA	-5.05	1.40	1.46
3	4-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	4-J	1491	ILE	CA-C	5.05	1.59	1.52
3	4-V	1541	THR	C-N	-5.05	1.22	1.33
2	5-C	8	GLU	N-CA	-5.05	1.40	1.46
3	5-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	5-J	1491	ILE	CA-C	5.05	1.59	1.52
3	5-V	1541	THR	C-N	-5.05	1.22	1.33
2	6-C	8	GLU	N-CA	-5.05	1.40	1.46
3	6-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	6-J	1491	ILE	CA-C	5.05	1.59	1.52
3	6-V	1541	THR	C-N	-5.05	1.22	1.33
2	7-C	8	GLU	N-CA	-5.05	1.40	1.46
3	7-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	7-J	1491	ILE	CA-C	5.05	1.59	1.52
3	7-V	1541	THR	C-N	-5.05	1.22	1.33
2	8-C	8	GLU	N-CA	-5.05	1.40	1.46
3	8-D	1502	ARG	CA-C	-5.05	1.46	1.52
3	8-J	1491	ILE	CA-C	5.05	1.59	1.52
3	8-V	1541	THR	C-N	-5.05	1.22	1.33
2	1-I	250	VAL	C-N	5.05	1.40	1.33
3	1-P	1472	SER	C-O	5.05	1.29	1.24
1	1-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	2-I	250	VAL	C-N	5.05	1.40	1.33
3	2-P	1472	SER	C-O	5.05	1.29	1.24
1	2-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	3-I	250	VAL	C-N	5.05	1.40	1.33
3	3-P	1472	SER	C-O	5.05	1.29	1.24
1	3-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	4-I	250	VAL	C-N	5.05	1.40	1.33
3	4-P	1472	SER	C-O	5.05	1.29	1.24
1	4-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	5-I	250	VAL	C-N	5.05	1.40	1.33
3	5-P	1472	SER	C-O	5.05	1.29	1.24
1	5-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	6-I	250	VAL	C-N	5.05	1.40	1.33
3	6-P	1472	SER	C-O	5.05	1.29	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	7-I	250	VAL	C-N	5.05	1.40	1.33
3	7-P	1472	SER	C-O	5.05	1.29	1.24
1	7-W	87	VAL	CA-CB	-5.05	1.50	1.54
2	8-I	250	VAL	C-N	5.05	1.40	1.33
3	8-P	1472	SER	C-O	5.05	1.29	1.24
1	8-W	87	VAL	CA-CB	-5.05	1.50	1.54
4	1-R	490	LEU	C-N	-5.05	1.28	1.34
4	1-X	490	LEU	C-N	-5.05	1.28	1.34
4	2-R	490	LEU	C-N	-5.05	1.28	1.34
4	2-X	490	LEU	C-N	-5.05	1.28	1.34
4	3-R	490	LEU	C-N	-5.05	1.28	1.34
4	3-X	490	LEU	C-N	-5.05	1.28	1.34
4	4-R	490	LEU	C-N	-5.05	1.28	1.34
4	4-X	490	LEU	C-N	-5.05	1.28	1.34
4	5-R	490	LEU	C-N	-5.05	1.28	1.34
4	5-X	490	LEU	C-N	-5.05	1.28	1.34
4	6-R	490	LEU	C-N	-5.05	1.28	1.34
4	6-X	490	LEU	C-N	-5.05	1.28	1.34
4	7-R	490	LEU	C-N	-5.05	1.28	1.34
4	7-X	490	LEU	C-N	-5.05	1.28	1.34
4	8-R	490	LEU	C-N	-5.05	1.28	1.34
4	8-X	490	LEU	C-N	-5.05	1.28	1.34
1	1-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	1-P	1541	THR	C-N	-5.05	1.22	1.33
1	2-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	2-P	1541	THR	C-N	-5.05	1.22	1.33
1	3-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	3-P	1541	THR	C-N	-5.05	1.22	1.33
1	4-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	4-P	1541	THR	C-N	-5.05	1.22	1.33
1	5-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	5-P	1541	THR	C-N	-5.05	1.22	1.33
1	6-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	6-P	1541	THR	C-N	-5.05	1.22	1.33
1	7-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	7-P	1541	THR	C-N	-5.05	1.22	1.33
1	8-E	87	VAL	CA-CB	-5.05	1.50	1.54
3	8-P	1541	THR	C-N	-5.05	1.22	1.33
3	1-J	1540	LEU	N-CA	-5.04	1.40	1.46
3	2-J	1540	LEU	N-CA	-5.04	1.40	1.46
3	3-J	1540	LEU	N-CA	-5.04	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-J	1540	LEU	N-CA	-5.04	1.40	1.46
3	5-J	1540	LEU	N-CA	-5.04	1.40	1.46
3	6-J	1540	LEU	N-CA	-5.04	1.40	1.46
3	7-J	1540	LEU	N-CA	-5.04	1.40	1.46
3	8-J	1540	LEU	N-CA	-5.04	1.40	1.46
5	1-M	300	GLY	CA-C	-5.04	1.46	1.52
5	1-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	2-M	300	GLY	CA-C	-5.04	1.46	1.52
5	2-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	3-M	300	GLY	CA-C	-5.04	1.46	1.52
5	3-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	4-M	300	GLY	CA-C	-5.04	1.46	1.52
5	4-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	5-M	300	GLY	CA-C	-5.04	1.46	1.52
5	5-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	6-M	300	GLY	CA-C	-5.04	1.46	1.52
5	6-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	7-M	300	GLY	CA-C	-5.04	1.46	1.52
5	7-Y	300	GLY	CA-C	-5.04	1.46	1.52
5	8-M	300	GLY	CA-C	-5.04	1.46	1.52
5	8-Y	300	GLY	CA-C	-5.04	1.46	1.52
4	1-L	490	LEU	C-N	-5.04	1.28	1.34
5	1-S	329	GLN	C-N	5.04	1.40	1.33
4	2-L	490	LEU	C-N	-5.04	1.28	1.34
5	2-S	329	GLN	C-N	5.04	1.40	1.33
4	3-L	490	LEU	C-N	-5.04	1.28	1.34
5	3-S	329	GLN	C-N	5.04	1.40	1.33
4	4-L	490	LEU	C-N	-5.04	1.28	1.34
5	4-S	329	GLN	C-N	5.04	1.40	1.33
4	5-L	490	LEU	C-N	-5.04	1.28	1.34
5	5-S	329	GLN	C-N	5.04	1.40	1.33
4	6-L	490	LEU	C-N	-5.04	1.28	1.34
5	6-S	329	GLN	C-N	5.04	1.40	1.33
4	7-L	490	LEU	C-N	-5.04	1.28	1.34
5	7-S	329	GLN	C-N	5.04	1.40	1.33
4	8-L	490	LEU	C-N	-5.04	1.28	1.34
5	8-S	329	GLN	C-N	5.04	1.40	1.33
5	1-G	300	GLY	CA-C	-5.04	1.46	1.52
6	1-T	341	SER	CA-C	5.04	1.59	1.52
5	2-G	300	GLY	CA-C	-5.04	1.46	1.52
6	2-T	341	SER	CA-C	5.04	1.59	1.52
5	3-G	300	GLY	CA-C	-5.04	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	3-T	341	SER	CA-C	5.04	1.59	1.52
5	4-G	300	GLY	CA-C	-5.04	1.46	1.52
6	4-T	341	SER	CA-C	5.04	1.59	1.52
5	5-G	300	GLY	CA-C	-5.04	1.46	1.52
6	5-T	341	SER	CA-C	5.04	1.59	1.52
5	6-G	300	GLY	CA-C	-5.04	1.46	1.52
6	6-T	341	SER	CA-C	5.04	1.59	1.52
5	7-G	300	GLY	CA-C	-5.04	1.46	1.52
6	7-T	341	SER	CA-C	5.04	1.59	1.52
5	8-G	300	GLY	CA-C	-5.04	1.46	1.52
6	8-T	341	SER	CA-C	5.04	1.59	1.52
1	1-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	2-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	3-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	4-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	5-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	6-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	7-B	87	VAL	CA-CB	-5.03	1.50	1.54
1	8-B	87	VAL	CA-CB	-5.03	1.50	1.54
3	1-J	1506	VAL	C-O	5.03	1.30	1.24
3	2-J	1506	VAL	C-O	5.03	1.30	1.24
3	3-J	1506	VAL	C-O	5.03	1.30	1.24
3	4-J	1506	VAL	C-O	5.03	1.30	1.24
3	5-J	1506	VAL	C-O	5.03	1.30	1.24
3	6-J	1506	VAL	C-O	5.03	1.30	1.24
3	7-J	1506	VAL	C-O	5.03	1.30	1.24
3	8-J	1506	VAL	C-O	5.03	1.30	1.24
5	1-G	353	PHE	N-CA	-5.03	1.39	1.46
5	2-G	353	PHE	N-CA	-5.03	1.39	1.46
5	3-G	353	PHE	N-CA	-5.03	1.39	1.46
5	4-G	353	PHE	N-CA	-5.03	1.39	1.46
5	5-G	353	PHE	N-CA	-5.03	1.39	1.46
5	6-G	353	PHE	N-CA	-5.03	1.39	1.46
5	7-G	353	PHE	N-CA	-5.03	1.39	1.46
5	8-G	353	PHE	N-CA	-5.03	1.39	1.46
3	1-J	1452	LEU	N-CA	-5.03	1.40	1.46
3	2-J	1452	LEU	N-CA	-5.03	1.40	1.46
3	3-J	1452	LEU	N-CA	-5.03	1.40	1.46
3	4-J	1452	LEU	N-CA	-5.03	1.40	1.46
3	5-J	1452	LEU	N-CA	-5.03	1.40	1.46
3	6-J	1452	LEU	N-CA	-5.03	1.40	1.46
3	7-J	1452	LEU	N-CA	-5.03	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	8-J	1452	LEU	N-CA	-5.03	1.40	1.46
1	1-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	2-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	3-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	4-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	5-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	6-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	7-Q	87	VAL	CA-CB	-5.03	1.50	1.54
1	8-Q	87	VAL	CA-CB	-5.03	1.50	1.54
5	1-G	329	GLN	C-N	5.02	1.40	1.33
3	1-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	2-G	329	GLN	C-N	5.02	1.40	1.33
3	2-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	3-G	329	GLN	C-N	5.02	1.40	1.33
3	3-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	4-G	329	GLN	C-N	5.02	1.40	1.33
3	4-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	5-G	329	GLN	C-N	5.02	1.40	1.33
3	5-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	6-G	329	GLN	C-N	5.02	1.40	1.33
3	6-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	7-G	329	GLN	C-N	5.02	1.40	1.33
3	7-P	1502	ARG	CA-C	-5.02	1.46	1.52
5	8-G	329	GLN	C-N	5.02	1.40	1.33
3	8-P	1502	ARG	CA-C	-5.02	1.46	1.52
6	1-H	341	SER	CA-C	5.02	1.59	1.52
3	1-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	1-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	2-H	341	SER	CA-C	5.02	1.59	1.52
3	2-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	2-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	3-H	341	SER	CA-C	5.02	1.59	1.52
3	3-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	3-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	4-H	341	SER	CA-C	5.02	1.59	1.52
3	4-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	4-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	5-H	341	SER	CA-C	5.02	1.59	1.52
3	5-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	5-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	6-H	341	SER	CA-C	5.02	1.59	1.52
3	6-P	1452	LEU	N-CA	-5.02	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	6-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	7-H	341	SER	CA-C	5.02	1.59	1.52
3	7-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	7-V	1452	LEU	N-CA	-5.02	1.40	1.46
6	8-H	341	SER	CA-C	5.02	1.59	1.52
3	8-P	1452	LEU	N-CA	-5.02	1.40	1.46
3	8-V	1452	LEU	N-CA	-5.02	1.40	1.46
4	1-L	369	VAL	N-CA	-5.02	1.40	1.46
4	2-L	369	VAL	N-CA	-5.02	1.40	1.46
4	3-L	369	VAL	N-CA	-5.02	1.40	1.46
4	4-L	369	VAL	N-CA	-5.02	1.40	1.46
4	5-L	369	VAL	N-CA	-5.02	1.40	1.46
4	6-L	369	VAL	N-CA	-5.02	1.40	1.46
4	7-L	369	VAL	N-CA	-5.02	1.40	1.46
4	8-L	369	VAL	N-CA	-5.02	1.40	1.46
5	1-G	373	THR	N-CA	-5.02	1.40	1.46
6	1-N	358	VAL	N-CA	-5.02	1.39	1.46
5	2-G	373	THR	N-CA	-5.02	1.40	1.46
6	2-N	358	VAL	N-CA	-5.02	1.39	1.46
5	3-G	373	THR	N-CA	-5.02	1.40	1.46
6	3-N	358	VAL	N-CA	-5.02	1.39	1.46
5	4-G	373	THR	N-CA	-5.02	1.40	1.46
6	4-N	358	VAL	N-CA	-5.02	1.39	1.46
5	5-G	373	THR	N-CA	-5.02	1.40	1.46
6	5-N	358	VAL	N-CA	-5.02	1.39	1.46
5	6-G	373	THR	N-CA	-5.02	1.40	1.46
6	6-N	358	VAL	N-CA	-5.02	1.39	1.46
5	7-G	373	THR	N-CA	-5.02	1.40	1.46
6	7-N	358	VAL	N-CA	-5.02	1.39	1.46
5	8-G	373	THR	N-CA	-5.02	1.40	1.46
6	8-N	358	VAL	N-CA	-5.02	1.39	1.46
3	1-J	1541	THR	C-N	-5.02	1.22	1.33
3	2-J	1541	THR	C-N	-5.02	1.22	1.33
3	3-J	1541	THR	C-N	-5.02	1.22	1.33
3	4-J	1541	THR	C-N	-5.02	1.22	1.33
3	5-J	1541	THR	C-N	-5.02	1.22	1.33
3	6-J	1541	THR	C-N	-5.02	1.22	1.33
3	7-J	1541	THR	C-N	-5.02	1.22	1.33
3	8-J	1541	THR	C-N	-5.02	1.22	1.33
3	1-P	1491	ILE	CA-C	5.01	1.58	1.52
3	2-P	1491	ILE	CA-C	5.01	1.58	1.52
3	3-P	1491	ILE	CA-C	5.01	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	4-P	1491	ILE	CA-C	5.01	1.58	1.52
3	5-P	1491	ILE	CA-C	5.01	1.58	1.52
3	6-P	1491	ILE	CA-C	5.01	1.58	1.52
3	7-P	1491	ILE	CA-C	5.01	1.58	1.52
3	8-P	1491	ILE	CA-C	5.01	1.58	1.52
4	1-F	369	VAL	N-CA	-5.01	1.40	1.46
5	1-Y	373	THR	N-CA	-5.01	1.40	1.46
4	2-F	369	VAL	N-CA	-5.01	1.40	1.46
5	2-Y	373	THR	N-CA	-5.01	1.40	1.46
4	3-F	369	VAL	N-CA	-5.01	1.40	1.46
5	3-Y	373	THR	N-CA	-5.01	1.40	1.46
4	4-F	369	VAL	N-CA	-5.01	1.40	1.46
5	4-Y	373	THR	N-CA	-5.01	1.40	1.46
4	5-F	369	VAL	N-CA	-5.01	1.40	1.46
5	5-Y	373	THR	N-CA	-5.01	1.40	1.46
4	6-F	369	VAL	N-CA	-5.01	1.40	1.46
5	6-Y	373	THR	N-CA	-5.01	1.40	1.46
4	7-F	369	VAL	N-CA	-5.01	1.40	1.46
5	7-Y	373	THR	N-CA	-5.01	1.40	1.46
4	8-F	369	VAL	N-CA	-5.01	1.40	1.46
5	8-Y	373	THR	N-CA	-5.01	1.40	1.46
6	1-H	358	VAL	N-CA	-5.01	1.39	1.46
6	2-H	358	VAL	N-CA	-5.01	1.39	1.46
6	3-H	358	VAL	N-CA	-5.01	1.39	1.46
6	4-H	358	VAL	N-CA	-5.01	1.39	1.46
6	5-H	358	VAL	N-CA	-5.01	1.39	1.46
6	6-H	358	VAL	N-CA	-5.01	1.39	1.46
6	7-H	358	VAL	N-CA	-5.01	1.39	1.46
6	8-H	358	VAL	N-CA	-5.01	1.39	1.46
3	1-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	1-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	1-O	250	VAL	C-N	5.01	1.40	1.33
3	1-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	1-Y	341	ALA	C-N	5.01	1.40	1.34
3	2-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	2-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	2-O	250	VAL	C-N	5.01	1.40	1.33
3	2-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	2-Y	341	ALA	C-N	5.01	1.40	1.34
3	3-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	3-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	3-O	250	VAL	C-N	5.01	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	3-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	3-Y	341	ALA	C-N	5.01	1.40	1.34
3	4-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	4-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	4-O	250	VAL	C-N	5.01	1.40	1.33
3	4-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	4-Y	341	ALA	C-N	5.01	1.40	1.34
3	5-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	5-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	5-O	250	VAL	C-N	5.01	1.40	1.33
3	5-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	5-Y	341	ALA	C-N	5.01	1.40	1.34
3	6-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	6-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	6-O	250	VAL	C-N	5.01	1.40	1.33
3	6-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	6-Y	341	ALA	C-N	5.01	1.40	1.34
3	7-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	7-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	7-O	250	VAL	C-N	5.01	1.40	1.33
3	7-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	7-Y	341	ALA	C-N	5.01	1.40	1.34
3	8-D	1452	LEU	N-CA	-5.01	1.40	1.46
5	8-M	272	ILE	CA-CB	-5.01	1.48	1.54
2	8-O	250	VAL	C-N	5.01	1.40	1.33
3	8-P	1540	LEU	N-CA	-5.01	1.40	1.46
5	8-Y	341	ALA	C-N	5.01	1.40	1.34
6	1-N	379	VAL	CA-C	5.00	1.58	1.52
4	1-R	369	VAL	N-CA	-5.00	1.40	1.46
6	2-N	379	VAL	CA-C	5.00	1.58	1.52
4	2-R	369	VAL	N-CA	-5.00	1.40	1.46
6	3-N	379	VAL	CA-C	5.00	1.58	1.52
4	3-R	369	VAL	N-CA	-5.00	1.40	1.46
6	4-N	379	VAL	CA-C	5.00	1.58	1.52
4	4-R	369	VAL	N-CA	-5.00	1.40	1.46
6	5-N	379	VAL	CA-C	5.00	1.58	1.52
4	5-R	369	VAL	N-CA	-5.00	1.40	1.46
6	6-N	379	VAL	CA-C	5.00	1.58	1.52
4	6-R	369	VAL	N-CA	-5.00	1.40	1.46
6	7-N	379	VAL	CA-C	5.00	1.58	1.52
4	7-R	369	VAL	N-CA	-5.00	1.40	1.46
6	8-N	379	VAL	CA-C	5.00	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	8-R	369	VAL	N-CA	-5.00	1.40	1.46

All (43832) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	1-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	2-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	2-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	3-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	3-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	4-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	4-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	5-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	5-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	6-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	6-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	7-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	7-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	8-S	341	ALA	CA-C-N	-52.55	63.48	119.19
5	8-S	341	ALA	C-N-CA	-52.55	63.48	119.19
5	1-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	1-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	2-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	2-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	3-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	3-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	4-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	4-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	5-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	5-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	6-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	6-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	7-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	7-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	8-Y	341	ALA	CA-C-N	-52.52	63.52	119.19
5	8-Y	341	ALA	C-N-CA	-52.52	63.52	119.19
5	1-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	1-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	2-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	2-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	3-G	341	ALA	CA-C-N	-52.52	63.52	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	4-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	4-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	5-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	5-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	6-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	6-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	7-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	7-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	8-G	341	ALA	CA-C-N	-52.52	63.52	119.19
5	8-G	341	ALA	C-N-CA	-52.52	63.52	119.19
5	1-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	1-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	2-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	2-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	3-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	3-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	4-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	4-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	5-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	5-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	6-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	6-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	7-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	7-M	341	ALA	C-N-CA	-52.48	63.56	119.19
5	8-M	341	ALA	CA-C-N	-52.48	63.56	119.19
5	8-M	341	ALA	C-N-CA	-52.48	63.56	119.19
3	1-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	1-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	2-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	2-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	3-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	3-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	4-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	4-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	5-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	5-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	6-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	6-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	7-J	1488	GLY	CA-C-N	-46.31	47.38	123.33
3	7-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	8-J	1488	GLY	CA-C-N	-46.31	47.38	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1488	GLY	C-N-CA	-46.31	47.38	123.33
3	1-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	1-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	2-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	2-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	3-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	3-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	4-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	4-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	5-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	5-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	6-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	6-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	7-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	7-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	8-D	1488	GLY	CA-C-N	-46.30	47.39	123.33
3	8-D	1488	GLY	C-N-CA	-46.30	47.39	123.33
3	1-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	1-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	2-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	2-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	3-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	3-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	4-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	4-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	5-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	5-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	6-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	6-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	7-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	7-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	8-V	1488	GLY	CA-C-N	-46.30	47.40	123.33
3	8-V	1488	GLY	C-N-CA	-46.30	47.40	123.33
3	1-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	1-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	2-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	2-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	3-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	3-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	4-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	4-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	5-P	1488	GLY	CA-C-N	-46.29	47.42	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	6-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	6-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	7-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	7-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
3	8-P	1488	GLY	CA-C-N	-46.29	47.42	123.33
3	8-P	1488	GLY	C-N-CA	-46.29	47.42	123.33
5	1-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	2-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	3-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	4-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	5-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	6-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	7-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	8-M	340	ALA	N-CA-C	-45.74	30.84	107.23
5	1-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	2-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	3-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	4-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	5-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	6-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	7-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	8-S	340	ALA	N-CA-C	-45.73	30.85	107.23
5	1-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	2-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	3-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	4-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	5-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	6-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	7-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	8-G	340	ALA	N-CA-C	-45.73	30.86	107.23
5	1-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	2-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	3-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	4-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	5-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	6-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	7-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
5	8-Y	340	ALA	N-CA-C	-45.72	30.88	107.23
6	1-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	1-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	1-Z	408	SER	CA-C-N	-41.64	67.79	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	2-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	2-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	2-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	2-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	3-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	3-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	3-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	3-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	4-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	4-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	4-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	4-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	5-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	5-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	5-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	5-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	6-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	6-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	6-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	6-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	7-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	7-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	7-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	7-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	8-N	408	SER	CA-C-N	-41.64	67.80	119.84
6	8-N	408	SER	C-N-CA	-41.64	67.80	119.84
6	8-Z	408	SER	CA-C-N	-41.64	67.79	119.84
6	8-Z	408	SER	C-N-CA	-41.64	67.79	119.84
6	1-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	1-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	2-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	2-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	3-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	3-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	4-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	4-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	5-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	5-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	6-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	6-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	7-T	408	SER	CA-C-N	-41.63	67.80	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-T	408	SER	C-N-CA	-41.63	67.80	119.84
6	8-T	408	SER	CA-C-N	-41.63	67.80	119.84
6	8-T	408	SER	C-N-CA	-41.63	67.80	119.84
3	1-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	1-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	2-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	2-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	3-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	3-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	4-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	4-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	5-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	5-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	6-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	6-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	7-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	7-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	8-P	1541	THR	CA-C-N	-41.60	67.84	119.84
3	8-P	1541	THR	C-N-CA	-41.60	67.84	119.84
3	1-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	1-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	1-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	1-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	1-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	1-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	2-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	2-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	2-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	2-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	2-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	2-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	3-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	3-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	3-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	3-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	3-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	3-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	4-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	4-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	4-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	4-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	4-V	1541	THR	CA-C-N	-41.59	67.85	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	5-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	5-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	5-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	5-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	5-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	5-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	6-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	6-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	6-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	6-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	6-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	6-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	7-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	7-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	7-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	7-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	7-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	7-V	1541	THR	C-N-CA	-41.59	67.85	119.84
3	8-D	1541	THR	CA-C-N	-41.59	67.85	119.84
3	8-D	1541	THR	C-N-CA	-41.59	67.85	119.84
3	8-J	1541	THR	CA-C-N	-41.59	67.85	119.84
3	8-J	1541	THR	C-N-CA	-41.59	67.85	119.84
3	8-V	1541	THR	CA-C-N	-41.59	67.85	119.84
3	8-V	1541	THR	C-N-CA	-41.59	67.85	119.84
6	1-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	1-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	2-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	2-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	3-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	3-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	4-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	4-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	5-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	5-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	6-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	6-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	7-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	7-H	408	SER	C-N-CA	-41.57	67.87	119.84
6	8-H	408	SER	CA-C-N	-41.57	67.87	119.84
6	8-H	408	SER	C-N-CA	-41.57	67.87	119.84
4	1-R	454	TYR	CA-C-N	-38.07	53.45	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	2-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	2-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	3-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	3-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	4-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	4-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	5-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	5-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	6-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	6-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	7-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	7-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	8-R	454	TYR	CA-C-N	-38.07	53.45	121.97
4	8-R	454	TYR	C-N-CA	-38.07	53.45	121.97
4	1-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	1-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	2-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	2-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	3-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	3-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	4-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	4-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	5-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	5-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	6-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	6-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	7-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	7-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	8-X	454	TYR	CA-C-N	-38.06	53.45	121.97
4	8-X	454	TYR	C-N-CA	-38.06	53.45	121.97
4	1-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	1-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	2-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	2-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	3-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	3-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	4-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	4-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	5-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	5-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	6-F	454	TYR	CA-C-N	-38.06	53.46	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	7-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	7-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	8-F	454	TYR	CA-C-N	-38.06	53.46	121.97
4	8-F	454	TYR	C-N-CA	-38.06	53.46	121.97
4	1-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	1-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	2-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	2-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	3-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	3-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	4-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	4-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	5-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	5-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	6-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	6-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	7-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	7-L	454	TYR	C-N-CA	-38.06	53.47	121.97
4	8-L	454	TYR	CA-C-N	-38.06	53.47	121.97
4	8-L	454	TYR	C-N-CA	-38.06	53.47	121.97
5	1-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	2-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	3-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	4-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	5-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	6-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	7-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	8-G	340	ALA	CB-CA-C	34.89	157.12	111.42
5	1-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	2-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	3-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	4-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	5-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	6-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	7-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	8-S	340	ALA	CB-CA-C	34.88	157.12	111.42
5	1-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	2-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	3-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	4-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	5-Y	340	ALA	CB-CA-C	34.88	157.12	111.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	7-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	8-Y	340	ALA	CB-CA-C	34.88	157.12	111.42
5	1-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	2-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	3-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	4-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	5-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	6-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	7-M	340	ALA	CB-CA-C	34.85	157.08	111.42
5	8-M	340	ALA	CB-CA-C	34.85	157.08	111.42
4	1-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	1-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	1-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	1-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	1-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	1-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	2-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	2-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	2-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	2-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	2-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	2-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	3-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	3-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	3-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	3-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	3-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	3-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	4-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	4-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	4-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	4-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	4-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	4-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	5-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	5-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	5-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	5-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	5-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	5-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	6-F	423	ALA	CA-C-N	-34.66	76.51	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	6-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	6-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	6-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	6-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	7-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	7-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	7-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	7-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	7-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	7-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	8-F	423	ALA	CA-C-N	-34.66	76.51	119.84
4	8-F	423	ALA	C-N-CA	-34.66	76.51	119.84
4	8-L	423	ALA	CA-C-N	-34.66	76.51	119.84
4	8-L	423	ALA	C-N-CA	-34.66	76.51	119.84
4	8-R	423	ALA	CA-C-N	-34.66	76.51	119.84
4	8-R	423	ALA	C-N-CA	-34.66	76.51	119.84
4	1-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	1-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	2-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	2-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	3-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	3-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	4-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	4-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	5-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	5-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	6-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	6-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	7-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	7-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	8-X	423	ALA	CA-C-N	-34.66	76.52	119.84
4	8-X	423	ALA	C-N-CA	-34.66	76.52	119.84
4	1-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	1-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	2-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	2-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	3-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	3-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	4-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	4-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	5-R	462	GLU	CA-C-N	-34.48	59.91	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	6-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	6-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	7-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	7-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	8-R	462	GLU	CA-C-N	-34.48	59.91	121.97
4	8-R	462	GLU	C-N-CA	-34.48	59.91	121.97
4	1-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	1-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	2-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	2-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	3-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	3-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	4-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	4-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	5-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	5-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	6-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	6-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	7-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	7-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	8-L	462	GLU	CA-C-N	-34.47	59.92	121.97
4	8-L	462	GLU	C-N-CA	-34.47	59.92	121.97
4	1-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	1-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	2-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	2-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	3-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	3-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	4-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	4-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	5-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	5-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	6-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	6-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	7-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	7-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	8-F	462	GLU	CA-C-N	-34.46	59.95	121.97
4	8-F	462	GLU	C-N-CA	-34.46	59.95	121.97
4	1-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	1-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	2-X	462	GLU	CA-C-N	-34.45	59.97	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	3-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	3-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	4-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	4-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	5-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	5-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	6-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	6-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	7-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	7-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	8-X	462	GLU	CA-C-N	-34.45	59.97	121.97
4	8-X	462	GLU	C-N-CA	-34.45	59.97	121.97
4	1-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	2-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	3-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	4-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	5-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	6-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	7-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	8-L	450	GLU	CA-C-O	32.99	167.69	120.51
4	1-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	2-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	3-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	4-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	5-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	6-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	7-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	8-F	450	GLU	CA-C-O	32.98	167.68	120.51
4	1-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	2-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	3-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	4-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	5-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	6-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	7-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	8-R	450	GLU	CA-C-O	32.98	167.68	120.51
4	1-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	2-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	3-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	4-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	5-X	450	GLU	CA-C-O	32.97	167.66	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	7-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	8-X	450	GLU	CA-C-O	32.97	167.66	120.51
4	1-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	1-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	2-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	2-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	3-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	3-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	4-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	4-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	5-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	5-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	6-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	6-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	7-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	7-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	8-L	455	ILE	CA-C-N	-32.76	73.33	123.12
4	8-L	455	ILE	C-N-CA	-32.76	73.33	123.12
4	1-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	1-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	2-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	2-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	3-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	3-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	4-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	4-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	5-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	5-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	6-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	6-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	7-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	7-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	8-F	455	ILE	CA-C-N	-32.75	73.34	123.12
4	8-F	455	ILE	C-N-CA	-32.75	73.34	123.12
4	1-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	1-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	2-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	2-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	3-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	3-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	4-X	455	ILE	CA-C-N	-32.74	73.36	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	5-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	5-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	6-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	6-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	7-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	7-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	8-X	455	ILE	CA-C-N	-32.74	73.36	123.12
4	8-X	455	ILE	C-N-CA	-32.74	73.36	123.12
4	1-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	1-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	2-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	2-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	3-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	3-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	4-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	4-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	5-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	5-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	6-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	6-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	7-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	7-R	455	ILE	C-N-CA	-32.71	73.39	123.12
4	8-R	455	ILE	CA-C-N	-32.71	73.39	123.12
4	8-R	455	ILE	C-N-CA	-32.71	73.39	123.12
5	1-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	2-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	3-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	4-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	5-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	6-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	7-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	8-Y	338	GLU	CA-C-O	-31.45	69.08	120.65
5	1-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	1-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	2-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	2-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	3-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	3-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	4-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	4-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	5-M	338	GLU	CA-C-O	-31.45	69.08	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	6-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	6-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	7-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	7-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	8-M	338	GLU	CA-C-O	-31.45	69.08	120.65
5	8-S	338	GLU	CA-C-O	-31.45	69.08	120.65
5	1-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	2-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	3-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	4-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	5-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	6-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	7-G	338	GLU	CA-C-O	-31.44	69.09	120.65
5	8-G	338	GLU	CA-C-O	-31.44	69.09	120.65
3	1-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	2-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	3-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	4-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	5-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	6-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	7-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	8-D	1491	ILE	N-CA-C	31.42	140.58	110.42
3	1-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	2-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	3-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	4-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	5-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	6-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	7-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	8-P	1491	ILE	N-CA-C	31.41	140.57	110.42
3	1-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	2-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	3-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	4-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	5-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	6-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	7-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	8-J	1491	ILE	N-CA-C	31.40	140.56	110.42
3	1-V	1491	ILE	N-CA-C	31.39	140.56	110.42
3	2-V	1491	ILE	N-CA-C	31.39	140.56	110.42
3	3-V	1491	ILE	N-CA-C	31.39	140.56	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1491	ILE	N-CA-C	31.39	140.56	110.42
3	5-V	1491	ILE	N-CA-C	31.39	140.56	110.42
3	6-V	1491	ILE	N-CA-C	31.39	140.56	110.42
3	7-V	1491	ILE	N-CA-C	31.39	140.56	110.42
3	8-V	1491	ILE	N-CA-C	31.39	140.56	110.42
5	1-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	1-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	2-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	2-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	3-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	3-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	4-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	4-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	5-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	5-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	6-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	6-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	7-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	7-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	8-G	379	HIS	CA-C-N	30.14	162.80	120.91
5	8-G	379	HIS	C-N-CA	30.14	162.80	120.91
5	1-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	1-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	2-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	2-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	3-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	3-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	4-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	4-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	5-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	5-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	6-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	6-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	7-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	7-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	8-M	379	HIS	CA-C-N	30.13	162.79	120.91
5	8-M	379	HIS	C-N-CA	30.13	162.79	120.91
5	1-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	1-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	2-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	2-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	3-Y	379	HIS	CA-C-N	30.13	162.78	120.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	4-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	4-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	5-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	5-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	6-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	6-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	7-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	7-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	8-Y	379	HIS	CA-C-N	30.13	162.78	120.91
5	8-Y	379	HIS	C-N-CA	30.13	162.78	120.91
5	1-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	1-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	2-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	2-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	3-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	3-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	4-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	4-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	5-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	5-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	6-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	6-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	7-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	7-S	379	HIS	C-N-CA	30.11	162.76	120.91
5	8-S	379	HIS	CA-C-N	30.11	162.76	120.91
5	8-S	379	HIS	C-N-CA	30.11	162.76	120.91
3	1-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	1-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	2-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	2-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	3-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	3-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	4-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	4-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	5-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	5-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	6-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	6-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	7-V	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	7-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	8-V	1508	LYS	CA-C-N	-29.83	77.93	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	1-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	1-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	2-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	2-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	3-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	3-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	4-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	4-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	5-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	5-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	6-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	6-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	7-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	7-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	8-P	1508	LYS	CA-C-N	-29.83	77.93	120.29
3	8-P	1508	LYS	C-N-CA	-29.83	77.93	120.29
3	1-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	1-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	2-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	2-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	3-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	3-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	4-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	4-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	5-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	5-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	6-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	6-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	7-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	7-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	8-D	1508	LYS	CA-C-N	-29.82	77.95	120.29
3	8-D	1508	LYS	C-N-CA	-29.82	77.95	120.29
3	1-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	1-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	2-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	2-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	3-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	3-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	4-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	4-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	5-J	1508	LYS	CA-C-N	-29.79	77.99	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	6-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	6-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	7-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	7-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
3	8-J	1508	LYS	CA-C-N	-29.79	77.99	120.29
3	8-J	1508	LYS	C-N-CA	-29.79	77.99	120.29
4	1-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	2-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	3-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	4-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	5-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	6-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	7-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	8-L	453	TYR	O-C-N	-28.01	85.34	122.59
4	1-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	2-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	3-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	4-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	5-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	6-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	7-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	8-F	453	TYR	O-C-N	-27.98	85.38	122.59
4	1-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	2-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	3-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	4-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	5-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	6-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	7-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	8-X	453	TYR	O-C-N	-27.98	85.38	122.59
4	1-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	2-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	3-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	4-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	5-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	6-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	7-R	453	TYR	O-C-N	-27.97	85.39	122.59
4	8-R	453	TYR	O-C-N	-27.97	85.39	122.59
5	1-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	2-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	3-S	341	ALA	CA-C-O	-27.65	82.28	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	5-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	6-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	7-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	8-S	341	ALA	CA-C-O	-27.65	82.28	120.16
5	1-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	2-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	3-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	4-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	5-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	6-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	7-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	8-G	341	ALA	CA-C-O	-27.63	82.30	120.16
5	1-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	2-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	3-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	4-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	5-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	6-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	7-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	8-Y	341	ALA	CA-C-O	-27.61	82.33	120.16
5	1-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	2-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	3-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	4-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	5-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	6-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	7-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	8-M	341	ALA	CA-C-O	-27.59	82.36	120.16
5	1-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	2-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	3-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	4-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	5-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	6-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	7-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	8-Y	343	ALA	CB-CA-C	-27.45	55.80	110.42
5	1-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	2-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	3-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	4-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	5-M	343	ALA	CB-CA-C	-27.44	55.81	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	7-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	8-M	343	ALA	CB-CA-C	-27.44	55.81	110.42
5	1-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	1-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	2-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	2-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	3-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	3-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	4-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	4-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	5-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	5-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	6-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	6-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	7-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	7-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	8-G	343	ALA	CB-CA-C	-27.44	55.82	110.42
5	8-S	343	ALA	CB-CA-C	-27.44	55.82	110.42
3	1-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	1-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	2-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	2-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	3-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	3-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	4-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	4-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	5-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	5-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	6-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	6-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	7-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	7-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	8-D	1543	GLN	CA-C-N	-26.90	92.67	120.38
3	8-D	1543	GLN	C-N-CA	-26.90	92.67	120.38
3	1-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	1-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	2-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	2-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	3-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	3-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	4-P	1543	GLN	CA-C-N	-26.86	92.71	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	5-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	5-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	6-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	6-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	7-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	7-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	8-P	1543	GLN	CA-C-N	-26.86	92.71	120.38
3	8-P	1543	GLN	C-N-CA	-26.86	92.71	120.38
3	1-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	1-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	2-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	2-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	3-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	3-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	4-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	4-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	5-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	5-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	6-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	6-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	7-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	7-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	8-V	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	8-V	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	1-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	1-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	2-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	2-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	3-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	3-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	4-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	4-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	5-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	5-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	6-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	6-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	7-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	7-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
3	8-J	1543	GLN	CA-C-N	-26.84	92.74	120.38
3	8-J	1543	GLN	C-N-CA	-26.84	92.74	120.38
5	1-Y	326	LEU	CA-C-O	-26.18	83.08	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	3-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	4-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	5-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	6-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	7-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	8-Y	326	LEU	CA-C-O	-26.18	83.08	120.51
5	1-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	2-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	3-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	4-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	5-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	6-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	7-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	8-M	326	LEU	CA-C-O	-26.17	83.09	120.51
5	1-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	2-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	3-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	4-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	5-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	6-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	7-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	8-G	326	LEU	CA-C-O	-26.16	83.10	120.51
5	1-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	2-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	3-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	4-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	5-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	6-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	7-S	326	LEU	CA-C-O	-26.16	83.10	120.51
5	8-S	326	LEU	CA-C-O	-26.16	83.10	120.51
4	1-L	449	SER	O-C-N	26.09	157.29	122.59
4	2-L	449	SER	O-C-N	26.09	157.29	122.59
4	3-L	449	SER	O-C-N	26.09	157.29	122.59
4	4-L	449	SER	O-C-N	26.09	157.29	122.59
4	5-L	449	SER	O-C-N	26.09	157.29	122.59
4	6-L	449	SER	O-C-N	26.09	157.29	122.59
4	7-L	449	SER	O-C-N	26.09	157.29	122.59
4	8-L	449	SER	O-C-N	26.09	157.29	122.59
4	1-X	449	SER	O-C-N	26.08	157.28	122.59
4	2-X	449	SER	O-C-N	26.08	157.28	122.59
4	3-X	449	SER	O-C-N	26.08	157.28	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	449	SER	O-C-N	26.08	157.28	122.59
4	5-X	449	SER	O-C-N	26.08	157.28	122.59
4	6-X	449	SER	O-C-N	26.08	157.28	122.59
4	7-X	449	SER	O-C-N	26.08	157.28	122.59
4	8-X	449	SER	O-C-N	26.08	157.28	122.59
4	1-F	449	SER	O-C-N	26.07	157.27	122.59
4	2-F	449	SER	O-C-N	26.07	157.27	122.59
4	3-F	449	SER	O-C-N	26.07	157.27	122.59
4	4-F	449	SER	O-C-N	26.07	157.27	122.59
4	5-F	449	SER	O-C-N	26.07	157.27	122.59
4	6-F	449	SER	O-C-N	26.07	157.27	122.59
4	7-F	449	SER	O-C-N	26.07	157.27	122.59
4	8-F	449	SER	O-C-N	26.07	157.27	122.59
4	1-R	449	SER	O-C-N	26.05	157.23	122.59
4	2-R	449	SER	O-C-N	26.05	157.23	122.59
4	3-R	449	SER	O-C-N	26.05	157.23	122.59
4	4-R	449	SER	O-C-N	26.05	157.23	122.59
4	5-R	449	SER	O-C-N	26.05	157.23	122.59
4	6-R	449	SER	O-C-N	26.05	157.23	122.59
4	7-R	449	SER	O-C-N	26.05	157.23	122.59
4	8-R	449	SER	O-C-N	26.05	157.23	122.59
4	1-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	2-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	3-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	4-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	5-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	6-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	7-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	8-R	450	GLU	N-CA-CB	25.95	154.34	110.49
4	1-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	1-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	2-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	2-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	3-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	3-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	4-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	4-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	5-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	5-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	6-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	6-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	7-L	450	GLU	N-CA-CB	25.94	154.33	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	8-L	450	GLU	N-CA-CB	25.94	154.33	110.49
4	8-X	450	GLU	N-CA-CB	25.94	154.33	110.49
4	1-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	2-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	3-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	4-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	5-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	6-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	7-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	8-F	450	GLU	N-CA-CB	25.92	154.30	110.49
4	1-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	1-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	2-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	2-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	3-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	3-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	4-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	4-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	5-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	5-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	6-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	6-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	7-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	7-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	8-R	450	GLU	CA-C-N	-25.86	72.16	121.54
4	8-R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	1-L	400	GLY	O-C-N	25.85	156.31	122.70
4	2-L	400	GLY	O-C-N	25.85	156.31	122.70
4	3-L	400	GLY	O-C-N	25.85	156.31	122.70
4	4-L	400	GLY	O-C-N	25.85	156.31	122.70
4	5-L	400	GLY	O-C-N	25.85	156.31	122.70
4	6-L	400	GLY	O-C-N	25.85	156.31	122.70
4	7-L	400	GLY	O-C-N	25.85	156.31	122.70
4	8-L	400	GLY	O-C-N	25.85	156.31	122.70
4	1-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	1-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	2-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	2-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	3-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	3-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	4-L	450	GLU	CA-C-N	-25.85	72.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	5-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	5-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	6-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	6-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	7-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	7-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	8-L	450	GLU	CA-C-N	-25.85	72.17	121.54
4	8-L	450	GLU	C-N-CA	-25.85	72.17	121.54
4	1-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	1-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	2-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	2-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	3-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	3-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	4-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	4-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	5-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	5-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	6-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	6-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	7-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	7-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	8-F	450	GLU	CA-C-N	-25.85	72.17	121.54
4	8-F	450	GLU	C-N-CA	-25.85	72.17	121.54
4	1-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	1-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	2-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	2-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	3-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	3-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	4-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	4-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	5-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	5-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	6-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	6-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	7-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	7-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	8-X	450	GLU	CA-C-N	-25.84	72.18	121.54
4	8-X	450	GLU	C-N-CA	-25.84	72.18	121.54
4	1-X	400	GLY	O-C-N	25.84	156.29	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	400	GLY	O-C-N	25.84	156.29	122.70
4	3-X	400	GLY	O-C-N	25.84	156.29	122.70
4	4-X	400	GLY	O-C-N	25.84	156.29	122.70
4	5-X	400	GLY	O-C-N	25.84	156.29	122.70
4	6-X	400	GLY	O-C-N	25.84	156.29	122.70
4	7-X	400	GLY	O-C-N	25.84	156.29	122.70
4	8-X	400	GLY	O-C-N	25.84	156.29	122.70
4	1-R	400	GLY	O-C-N	25.83	156.28	122.70
4	2-R	400	GLY	O-C-N	25.83	156.28	122.70
4	3-R	400	GLY	O-C-N	25.83	156.28	122.70
4	4-R	400	GLY	O-C-N	25.83	156.28	122.70
4	5-R	400	GLY	O-C-N	25.83	156.28	122.70
4	6-R	400	GLY	O-C-N	25.83	156.28	122.70
4	7-R	400	GLY	O-C-N	25.83	156.28	122.70
4	8-R	400	GLY	O-C-N	25.83	156.28	122.70
4	1-F	400	GLY	O-C-N	25.83	156.28	122.70
4	2-F	400	GLY	O-C-N	25.83	156.28	122.70
4	3-F	400	GLY	O-C-N	25.83	156.28	122.70
4	4-F	400	GLY	O-C-N	25.83	156.28	122.70
4	5-F	400	GLY	O-C-N	25.83	156.28	122.70
4	6-F	400	GLY	O-C-N	25.83	156.28	122.70
4	7-F	400	GLY	O-C-N	25.83	156.28	122.70
4	8-F	400	GLY	O-C-N	25.83	156.28	122.70
3	1-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	2-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	3-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	4-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	5-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	6-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	7-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	8-P	1544	PRO	N-CA-C	25.79	142.16	110.70
3	1-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	2-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	3-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	4-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	5-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	6-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	7-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	8-J	1544	PRO	N-CA-C	25.79	142.16	110.70
3	1-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	2-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	3-V	1544	PRO	N-CA-C	25.78	142.15	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	5-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	6-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	7-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	8-V	1544	PRO	N-CA-C	25.78	142.15	110.70
3	1-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	2-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	3-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	4-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	5-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	6-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	7-D	1544	PRO	N-CA-C	25.77	142.14	110.70
3	8-D	1544	PRO	N-CA-C	25.77	142.14	110.70
4	1-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	2-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	3-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	4-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	5-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	6-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	7-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	8-X	402	ALA	N-CA-C	-25.75	55.95	110.80
4	1-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	2-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	3-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	4-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	5-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	6-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	7-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	8-R	402	ALA	N-CA-C	-25.74	55.97	110.80
4	1-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	2-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	3-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	4-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	5-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	6-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	7-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	8-L	402	ALA	N-CA-C	-25.74	55.98	110.80
4	1-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	2-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	3-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	4-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	5-F	402	ALA	N-CA-C	-25.73	55.99	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	7-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	8-F	402	ALA	N-CA-C	-25.73	55.99	110.80
4	1-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	2-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	3-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	4-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	5-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	6-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	7-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	8-R	455	ILE	CA-C-O	25.50	152.66	120.78
4	1-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	2-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	3-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	4-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	5-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	6-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	7-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	8-X	455	ILE	CA-C-O	25.50	152.65	120.78
4	1-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	2-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	3-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	4-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	5-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	6-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	7-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	8-F	455	ILE	CA-C-O	25.50	152.65	120.78
4	1-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	2-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	3-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	4-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	5-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	6-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	7-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	8-L	455	ILE	CA-C-O	25.47	152.62	120.78
4	1-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	2-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	3-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	4-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	5-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	6-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	7-F	453	TYR	CA-C-O	24.80	155.98	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	453	TYR	CA-C-O	24.80	155.98	120.51
4	1-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	2-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	3-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	4-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	5-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	6-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	7-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	8-L	453	TYR	CA-C-O	24.80	155.97	120.51
4	1-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	2-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	3-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	4-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	5-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	6-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	7-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	8-X	453	TYR	CA-C-O	24.78	155.95	120.51
4	1-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	2-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	3-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	4-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	5-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	6-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	7-R	453	TYR	CA-C-O	24.78	155.95	120.51
4	8-R	453	TYR	CA-C-O	24.78	155.95	120.51
3	1-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	1-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	2-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	2-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	3-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	3-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	4-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	4-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	5-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	5-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	6-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	6-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	7-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	7-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	8-V	1506	VAL	CA-C-N	-24.19	82.49	122.65
3	8-V	1506	VAL	C-N-CA	-24.19	82.49	122.65
3	1-J	1506	VAL	CA-C-N	-24.17	82.52	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	2-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	2-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	3-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	3-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	4-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	4-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	5-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	5-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	6-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	6-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	7-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	7-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	8-J	1506	VAL	CA-C-N	-24.17	82.52	122.65
3	8-J	1506	VAL	C-N-CA	-24.17	82.52	122.65
3	1-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	1-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	2-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	2-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	3-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	3-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	4-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	4-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	5-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	5-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	6-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	6-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	7-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	7-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	8-P	1506	VAL	CA-C-N	-24.17	82.53	122.65
3	8-P	1506	VAL	C-N-CA	-24.17	82.53	122.65
3	1-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	1-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	2-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	2-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	3-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	3-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	4-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	4-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	5-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	5-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	6-D	1506	VAL	CA-C-N	-24.15	82.56	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	7-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	7-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	8-D	1506	VAL	CA-C-N	-24.15	82.56	122.65
3	8-D	1506	VAL	C-N-CA	-24.15	82.56	122.65
3	1-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	2-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	3-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	4-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	5-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	6-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	7-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	8-J	1541	THR	CA-C-O	23.87	141.49	118.34
3	1-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	2-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	3-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	4-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	5-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	6-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	7-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	8-D	1541	THR	CA-C-O	23.87	141.49	118.34
3	1-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	2-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	3-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	4-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	5-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	6-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	7-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	8-P	1541	THR	CA-C-O	23.85	141.47	118.34
3	1-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	2-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	3-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	4-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	5-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	6-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	7-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	8-V	1541	THR	CA-C-O	23.84	141.46	118.34
3	1-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	1-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	2-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	2-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	3-V	1539	LEU	CA-C-N	-23.59	86.79	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	4-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	4-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	5-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	5-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	6-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	6-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	7-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	7-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	8-V	1539	LEU	CA-C-N	-23.59	86.79	120.29
3	8-V	1539	LEU	C-N-CA	-23.59	86.79	120.29
3	1-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	1-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	2-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	2-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	3-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	3-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	4-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	4-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	5-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	5-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	6-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	6-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	7-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	7-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	8-J	1539	LEU	CA-C-N	-23.57	86.81	120.29
3	8-J	1539	LEU	C-N-CA	-23.57	86.81	120.29
3	1-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	1-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	1-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	1-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	2-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	2-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	2-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	2-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	3-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	3-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	3-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	3-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	4-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	4-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	4-P	1539	LEU	CA-C-N	-23.57	86.82	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	5-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	5-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	5-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	5-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	6-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	6-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	6-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	6-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	7-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	7-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	7-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	7-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	8-D	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	8-D	1539	LEU	C-N-CA	-23.57	86.82	120.29
3	8-P	1539	LEU	CA-C-N	-23.57	86.82	120.29
3	8-P	1539	LEU	C-N-CA	-23.57	86.82	120.29
6	1-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	2-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	3-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	4-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	5-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	6-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	7-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	8-Z	405	ASP	N-CA-C	-23.32	85.55	110.97
6	1-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	2-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	3-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	4-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	5-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	6-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	7-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	8-T	405	ASP	N-CA-C	-23.31	85.56	110.97
6	1-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	2-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	3-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	4-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	5-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	6-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	7-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	8-N	405	ASP	N-CA-C	-23.29	85.58	110.97
6	1-H	405	ASP	N-CA-C	-23.28	85.60	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	405	ASP	N-CA-C	-23.28	85.60	110.97
6	3-H	405	ASP	N-CA-C	-23.28	85.60	110.97
6	4-H	405	ASP	N-CA-C	-23.28	85.60	110.97
6	5-H	405	ASP	N-CA-C	-23.28	85.60	110.97
6	6-H	405	ASP	N-CA-C	-23.28	85.60	110.97
6	7-H	405	ASP	N-CA-C	-23.28	85.60	110.97
6	8-H	405	ASP	N-CA-C	-23.28	85.60	110.97
3	1-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	1-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	2-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	2-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	3-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	3-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	4-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	4-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	5-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	5-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	6-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	6-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	7-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	7-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	8-V	1546	LEU	CA-C-N	-22.65	85.89	120.31
3	8-V	1546	LEU	C-N-CA	-22.65	85.89	120.31
3	1-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	1-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	2-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	2-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	3-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	3-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	4-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	4-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	5-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	5-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	6-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	6-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	7-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	7-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	8-P	1546	LEU	CA-C-N	-22.64	85.90	120.31
3	8-P	1546	LEU	C-N-CA	-22.64	85.90	120.31
3	1-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	1-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	2-D	1546	LEU	CA-C-N	-22.61	85.94	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	3-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	3-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	4-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	4-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	5-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	5-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	6-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	6-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	7-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	7-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	8-D	1546	LEU	CA-C-N	-22.61	85.94	120.31
3	8-D	1546	LEU	C-N-CA	-22.61	85.94	120.31
3	1-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	1-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	2-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	2-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	3-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	3-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	4-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	4-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	5-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	5-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	6-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	6-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	7-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	7-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
3	8-J	1546	LEU	CA-C-N	-22.61	85.95	120.31
3	8-J	1546	LEU	C-N-CA	-22.61	85.95	120.31
4	1-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	1-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	2-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	2-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	3-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	3-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	4-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	4-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	5-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	5-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	6-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	6-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	7-L	399	SER	CA-C-N	-22.37	77.57	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	8-L	399	SER	CA-C-N	-22.37	77.57	121.41
4	8-L	399	SER	C-N-CA	-22.37	77.57	121.41
4	1-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	1-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	2-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	2-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	3-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	3-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	4-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	4-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	5-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	5-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	6-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	6-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	7-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	7-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	8-X	399	SER	CA-C-N	-22.36	77.58	121.41
4	8-X	399	SER	C-N-CA	-22.36	77.58	121.41
4	1-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	1-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	2-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	2-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	3-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	3-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	4-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	4-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	5-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	5-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	6-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	6-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	7-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	7-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	8-F	399	SER	CA-C-N	-22.36	77.59	121.41
4	8-F	399	SER	C-N-CA	-22.36	77.59	121.41
4	1-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	2-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	3-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	4-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	5-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	6-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	7-R	487	ASP	N-CA-C	-22.36	85.10	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	487	ASP	N-CA-C	-22.36	85.10	112.38
4	1-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	1-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	2-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	2-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	3-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	3-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	4-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	4-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	5-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	5-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	6-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	6-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	7-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	7-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	8-R	399	SER	CA-C-N	-22.35	77.60	121.41
4	8-R	399	SER	C-N-CA	-22.35	77.60	121.41
4	1-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	2-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	3-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	4-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	5-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	6-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	7-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	8-L	487	ASP	N-CA-C	-22.35	85.12	112.38
4	1-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	1-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	2-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	2-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	3-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	3-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	4-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	4-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	5-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	5-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	6-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	6-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	7-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	7-X	487	ASP	N-CA-C	-22.33	85.13	112.38
4	8-F	487	ASP	N-CA-C	-22.33	85.14	112.38
4	8-X	487	ASP	N-CA-C	-22.33	85.13	112.38
5	1-M	340	ALA	O-C-N	-22.23	98.28	123.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	3-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	4-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	5-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	6-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	7-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	8-M	340	ALA	O-C-N	-22.23	98.28	123.40
5	1-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	2-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	3-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	4-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	5-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	6-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	7-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	8-G	340	ALA	O-C-N	-22.20	98.32	123.40
5	1-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	2-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	3-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	4-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	5-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	6-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	7-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	8-Y	340	ALA	O-C-N	-22.17	98.35	123.40
5	1-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	2-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	3-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	4-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	5-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	6-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	7-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	8-S	340	ALA	O-C-N	-22.16	98.35	123.40
5	1-S	338	GLU	O-C-N	21.59	154.45	121.63
5	2-S	338	GLU	O-C-N	21.59	154.45	121.63
5	3-S	338	GLU	O-C-N	21.59	154.45	121.63
5	4-S	338	GLU	O-C-N	21.59	154.45	121.63
5	5-S	338	GLU	O-C-N	21.59	154.45	121.63
5	6-S	338	GLU	O-C-N	21.59	154.45	121.63
5	7-S	338	GLU	O-C-N	21.59	154.45	121.63
5	8-S	338	GLU	O-C-N	21.59	154.45	121.63
5	1-G	338	GLU	O-C-N	21.58	154.43	121.63
5	1-M	338	GLU	O-C-N	21.58	154.43	121.63
5	2-G	338	GLU	O-C-N	21.58	154.43	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	338	GLU	O-C-N	21.58	154.43	121.63
5	3-G	338	GLU	O-C-N	21.58	154.43	121.63
5	3-M	338	GLU	O-C-N	21.58	154.43	121.63
5	4-G	338	GLU	O-C-N	21.58	154.43	121.63
5	4-M	338	GLU	O-C-N	21.58	154.43	121.63
5	5-G	338	GLU	O-C-N	21.58	154.43	121.63
5	5-M	338	GLU	O-C-N	21.58	154.43	121.63
5	6-G	338	GLU	O-C-N	21.58	154.43	121.63
5	6-M	338	GLU	O-C-N	21.58	154.43	121.63
5	7-G	338	GLU	O-C-N	21.58	154.43	121.63
5	7-M	338	GLU	O-C-N	21.58	154.43	121.63
5	8-G	338	GLU	O-C-N	21.58	154.43	121.63
5	8-M	338	GLU	O-C-N	21.58	154.43	121.63
5	1-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	2-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	3-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	4-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	5-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	6-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	7-Y	338	GLU	O-C-N	21.57	154.42	121.63
5	8-Y	338	GLU	O-C-N	21.57	154.42	121.63
6	1-N	412	GLU	O-C-N	21.52	147.07	122.32
6	2-N	412	GLU	O-C-N	21.52	147.07	122.32
6	3-N	412	GLU	O-C-N	21.52	147.07	122.32
6	4-N	412	GLU	O-C-N	21.52	147.07	122.32
6	5-N	412	GLU	O-C-N	21.52	147.07	122.32
6	6-N	412	GLU	O-C-N	21.52	147.07	122.32
6	7-N	412	GLU	O-C-N	21.52	147.07	122.32
6	8-N	412	GLU	O-C-N	21.52	147.07	122.32
6	1-H	412	GLU	O-C-N	21.52	147.07	122.32
6	1-T	412	GLU	O-C-N	21.52	147.07	122.32
6	2-H	412	GLU	O-C-N	21.52	147.07	122.32
6	2-T	412	GLU	O-C-N	21.52	147.07	122.32
6	3-H	412	GLU	O-C-N	21.52	147.07	122.32
6	3-T	412	GLU	O-C-N	21.52	147.07	122.32
6	4-H	412	GLU	O-C-N	21.52	147.07	122.32
6	4-T	412	GLU	O-C-N	21.52	147.07	122.32
6	5-H	412	GLU	O-C-N	21.52	147.07	122.32
6	5-T	412	GLU	O-C-N	21.52	147.07	122.32
6	6-H	412	GLU	O-C-N	21.52	147.07	122.32
6	6-T	412	GLU	O-C-N	21.52	147.07	122.32
6	7-H	412	GLU	O-C-N	21.52	147.07	122.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-T	412	GLU	O-C-N	21.52	147.07	122.32
6	8-H	412	GLU	O-C-N	21.52	147.07	122.32
6	8-T	412	GLU	O-C-N	21.52	147.07	122.32
6	1-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	2-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	3-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	4-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	5-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	6-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	7-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	8-Z	412	GLU	O-C-N	21.50	147.05	122.32
6	1-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	2-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	3-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	4-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	5-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	6-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	7-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	8-H	487	TRP	N-CA-C	21.32	134.52	111.28
6	1-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	2-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	3-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	4-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	5-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	6-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	7-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	8-Z	487	TRP	N-CA-C	21.30	134.50	111.28
6	1-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	2-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	3-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	4-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	5-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	6-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	7-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	8-N	487	TRP	N-CA-C	21.25	134.45	111.28
6	1-T	487	TRP	N-CA-C	21.24	134.43	111.28
6	2-T	487	TRP	N-CA-C	21.24	134.43	111.28
6	3-T	487	TRP	N-CA-C	21.24	134.43	111.28
6	4-T	487	TRP	N-CA-C	21.24	134.43	111.28
6	5-T	487	TRP	N-CA-C	21.24	134.43	111.28
6	6-T	487	TRP	N-CA-C	21.24	134.43	111.28
6	7-T	487	TRP	N-CA-C	21.24	134.43	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	487	TRP	N-CA-C	21.24	134.43	111.28
4	1-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	1-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	2-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	2-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	3-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	3-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	4-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	4-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	5-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	5-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	6-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	6-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	7-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	7-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	8-F	422	ASN	CA-C-N	-20.98	70.62	121.80
4	8-F	422	ASN	C-N-CA	-20.98	70.62	121.80
4	1-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	1-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	2-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	2-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	3-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	3-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	4-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	4-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	5-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	5-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	6-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	6-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	7-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	7-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	8-L	422	ASN	CA-C-N	-20.98	70.62	121.80
4	8-L	422	ASN	C-N-CA	-20.98	70.62	121.80
4	1-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	1-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	2-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	2-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	3-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	3-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	4-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	4-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	5-R	422	ASN	CA-C-N	-20.97	70.62	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	6-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	6-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	7-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	7-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	8-R	422	ASN	CA-C-N	-20.97	70.62	121.80
4	8-R	422	ASN	C-N-CA	-20.97	70.62	121.80
4	1-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	1-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	2-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	2-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	3-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	3-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	4-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	4-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	5-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	5-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	6-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	6-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	7-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	7-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	8-X	422	ASN	CA-C-N	-20.95	70.67	121.80
4	8-X	422	ASN	C-N-CA	-20.95	70.67	121.80
4	1-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	2-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	3-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	4-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	5-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	6-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	7-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	8-F	460	LEU	CA-C-O	-20.87	96.82	120.20
4	1-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	2-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	3-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	4-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	5-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	6-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	7-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	8-X	460	LEU	CA-C-O	-20.86	96.83	120.20
4	1-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	2-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	3-R	460	LEU	CA-C-O	-20.86	96.84	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	5-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	6-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	7-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	8-R	460	LEU	CA-C-O	-20.86	96.84	120.20
4	1-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	2-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	3-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	4-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	5-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	6-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	7-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	8-L	460	LEU	CA-C-O	-20.82	96.89	120.20
4	1-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	2-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	3-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	4-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	5-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	6-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	7-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	8-F	454	TYR	N-CA-C	20.79	155.08	110.80
4	1-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	1-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	1-X	454	TYR	N-CA-C	20.77	155.05	110.80
4	2-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	2-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	2-X	454	TYR	N-CA-C	20.77	155.05	110.80
4	3-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	3-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	3-X	454	TYR	N-CA-C	20.77	155.05	110.80
4	4-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	4-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	4-X	454	TYR	N-CA-C	20.77	155.05	110.80
4	5-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	5-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	5-X	454	TYR	N-CA-C	20.77	155.05	110.80
4	6-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	6-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	6-X	454	TYR	N-CA-C	20.77	155.05	110.80
4	7-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	7-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	7-X	454	TYR	N-CA-C	20.77	155.05	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	454	TYR	N-CA-C	20.77	155.05	110.80
4	8-R	454	TYR	N-CA-C	20.77	155.05	110.80
4	8-X	454	TYR	N-CA-C	20.77	155.05	110.80
5	1-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	2-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	3-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	4-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	5-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	6-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	7-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	8-S	328	THR	N-CA-CB	20.77	138.53	110.90
5	1-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	2-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	3-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	4-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	5-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	6-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	7-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	8-G	328	THR	N-CA-CB	20.76	138.52	110.90
5	1-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	2-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	3-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	4-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	5-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	6-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	7-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	8-Y	328	THR	N-CA-CB	20.76	138.51	110.90
5	1-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	2-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	3-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	4-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	5-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	6-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	7-M	328	THR	N-CA-CB	20.75	138.50	110.90
5	8-M	328	THR	N-CA-CB	20.75	138.50	110.90
3	1-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	1-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	2-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	2-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	3-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	3-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	4-D	1504	VAL	CA-C-N	-20.52	91.16	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	5-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	5-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	6-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	6-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	7-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	7-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	8-D	1504	VAL	CA-C-N	-20.52	91.16	120.29
3	8-D	1504	VAL	C-N-CA	-20.52	91.16	120.29
3	1-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	1-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	2-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	2-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	3-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	3-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	4-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	4-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	5-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	5-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	6-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	6-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	7-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	7-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	8-P	1504	VAL	CA-C-N	-20.51	91.16	120.29
3	8-P	1504	VAL	C-N-CA	-20.51	91.16	120.29
3	1-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	1-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	2-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	2-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	3-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	3-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	4-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	4-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	5-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	5-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	6-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	6-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	7-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	7-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	8-J	1504	VAL	CA-C-N	-20.50	91.17	120.29
3	8-J	1504	VAL	C-N-CA	-20.50	91.17	120.29
3	1-V	1504	VAL	CA-C-N	-20.50	91.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	2-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	2-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	3-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	3-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	4-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	4-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	5-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	5-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	6-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	6-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	7-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	7-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
3	8-V	1504	VAL	CA-C-N	-20.50	91.18	120.29
3	8-V	1504	VAL	C-N-CA	-20.50	91.18	120.29
5	1-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	2-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	3-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	4-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	5-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	6-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	7-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	8-Y	331	THR	CA-C-O	20.11	137.84	118.34
5	1-M	331	THR	CA-C-O	20.07	137.81	118.34
5	2-M	331	THR	CA-C-O	20.07	137.81	118.34
5	3-M	331	THR	CA-C-O	20.07	137.81	118.34
5	4-M	331	THR	CA-C-O	20.07	137.81	118.34
5	5-M	331	THR	CA-C-O	20.07	137.81	118.34
5	6-M	331	THR	CA-C-O	20.07	137.81	118.34
5	7-M	331	THR	CA-C-O	20.07	137.81	118.34
5	8-M	331	THR	CA-C-O	20.07	137.81	118.34
5	1-G	331	THR	CA-C-O	20.05	137.79	118.34
5	2-G	331	THR	CA-C-O	20.05	137.79	118.34
5	3-G	331	THR	CA-C-O	20.05	137.79	118.34
5	4-G	331	THR	CA-C-O	20.05	137.79	118.34
5	5-G	331	THR	CA-C-O	20.05	137.79	118.34
5	6-G	331	THR	CA-C-O	20.05	137.79	118.34
5	7-G	331	THR	CA-C-O	20.05	137.79	118.34
5	8-G	331	THR	CA-C-O	20.05	137.79	118.34
5	1-S	331	THR	CA-C-O	20.04	137.78	118.34
5	2-S	331	THR	CA-C-O	20.04	137.78	118.34
5	3-S	331	THR	CA-C-O	20.04	137.78	118.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	331	THR	CA-C-O	20.04	137.78	118.34
5	5-S	331	THR	CA-C-O	20.04	137.78	118.34
5	6-S	331	THR	CA-C-O	20.04	137.78	118.34
5	7-S	331	THR	CA-C-O	20.04	137.78	118.34
5	8-S	331	THR	CA-C-O	20.04	137.78	118.34
4	1-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	2-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	3-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	4-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	5-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	6-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	7-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	8-R	398	LYS	O-C-N	-20.01	92.78	122.39
4	1-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	2-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	3-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	4-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	5-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	6-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	7-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	8-F	398	LYS	O-C-N	-20.00	92.78	122.39
4	1-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	1-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	1-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	2-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	2-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	2-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	3-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	3-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	3-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	4-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	4-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	4-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	5-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	5-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	5-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	6-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	6-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	6-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
4	7-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	7-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	7-V	1493	ARG	C-N-CA	-19.99	91.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	398	LYS	O-C-N	-19.99	92.80	122.39
3	8-V	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	8-V	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	1-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	1-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	2-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	2-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	3-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	3-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	4-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	4-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	5-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	5-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	6-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	6-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	7-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	7-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	8-P	1493	ARG	CA-C-N	-19.99	91.90	120.29
3	8-P	1493	ARG	C-N-CA	-19.99	91.90	120.29
3	1-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	1-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	2-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	2-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	3-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	3-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	4-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	4-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	5-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	5-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	6-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	6-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	7-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	7-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
3	8-J	1493	ARG	CA-C-N	-19.98	91.92	120.29
3	8-J	1493	ARG	C-N-CA	-19.98	91.92	120.29
4	1-X	398	LYS	O-C-N	-19.96	92.85	122.39
4	2-X	398	LYS	O-C-N	-19.96	92.85	122.39
4	3-X	398	LYS	O-C-N	-19.96	92.85	122.39
4	4-X	398	LYS	O-C-N	-19.96	92.85	122.39
4	5-X	398	LYS	O-C-N	-19.96	92.85	122.39
4	6-X	398	LYS	O-C-N	-19.96	92.85	122.39
4	7-X	398	LYS	O-C-N	-19.96	92.85	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	398	LYS	O-C-N	-19.96	92.85	122.39
3	1-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	1-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	2-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	2-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	3-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	3-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	4-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	4-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	5-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	5-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	6-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	6-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	7-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	7-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
3	8-D	1493	ARG	CA-C-N	-19.95	91.96	120.29
3	8-D	1493	ARG	C-N-CA	-19.95	91.96	120.29
4	1-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	2-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	3-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	4-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	5-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	6-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	7-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	8-R	456	ASP	CB-CA-C	-19.47	81.56	111.73
4	1-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	2-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	3-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	4-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	5-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	6-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	7-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	8-X	456	ASP	CB-CA-C	-19.46	81.56	111.73
4	1-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	2-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	3-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	4-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	5-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	6-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	7-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	8-L	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	1-F	456	ASP	CB-CA-C	-19.46	81.57	111.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	3-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	4-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	5-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	6-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	7-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
4	8-F	456	ASP	CB-CA-C	-19.46	81.57	111.73
5	1-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	2-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	3-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	4-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	5-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	6-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	7-M	320	LYS	N-CA-C	19.41	137.09	113.41
5	8-M	320	LYS	N-CA-C	19.41	137.09	113.41
4	1-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	2-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	3-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	4-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	5-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	6-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	7-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	8-X	456	ASP	CA-C-O	19.35	145.58	121.58
4	1-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	1-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	2-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	2-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	3-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	3-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	4-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	4-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	5-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	5-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	6-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	6-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	7-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	7-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	8-L	448	ARG	O-C-N	-19.35	96.70	122.43
4	8-R	456	ASP	CA-C-O	19.35	145.57	121.58
4	1-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	2-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	3-R	448	ARG	O-C-N	-19.34	96.71	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	5-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	6-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	7-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	8-R	448	ARG	O-C-N	-19.34	96.71	122.43
4	1-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	1-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	2-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	2-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	3-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	3-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	4-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	4-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	5-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	5-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	6-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	6-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	7-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	7-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	8-F	456	ASP	CA-C-O	19.34	145.56	121.58
4	8-L	456	ASP	CA-C-O	19.34	145.56	121.58
4	1-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	1-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	2-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	2-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	3-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	3-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	4-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	4-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	5-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	5-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	6-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	6-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	7-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	7-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	8-F	448	ARG	O-C-N	-19.31	96.75	122.43
4	8-X	448	ARG	O-C-N	-19.31	96.74	122.43
4	1-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	1-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	2-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	2-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	3-R	424	PRO	CA-C-N	-19.27	86.06	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	4-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	4-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	5-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	5-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	6-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	6-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	7-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	7-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	8-R	424	PRO	CA-C-N	-19.27	86.06	121.52
4	8-R	424	PRO	C-N-CA	-19.27	86.06	121.52
4	1-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	1-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	1-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	1-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	2-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	2-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	2-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	2-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	3-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	3-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	3-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	3-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	4-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	4-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	4-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	4-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	5-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	5-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	5-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	5-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	6-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	6-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	6-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	6-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	7-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	7-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	7-X	424	PRO	CA-C-N	-19.26	86.09	121.52
4	7-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	8-F	424	PRO	CA-C-N	-19.26	86.09	121.52
4	8-F	424	PRO	C-N-CA	-19.26	86.09	121.52
4	8-X	424	PRO	CA-C-N	-19.26	86.09	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	424	PRO	C-N-CA	-19.26	86.09	121.52
4	1-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	1-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	2-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	2-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	3-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	3-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	4-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	4-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	5-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	5-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	6-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	6-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	7-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	7-L	424	PRO	C-N-CA	-19.25	86.10	121.52
4	8-L	424	PRO	CA-C-N	-19.25	86.10	121.52
4	8-L	424	PRO	C-N-CA	-19.25	86.10	121.52
5	1-M	342	PRO	O-C-N	19.09	148.05	122.27
5	2-M	342	PRO	O-C-N	19.09	148.05	122.27
5	3-M	342	PRO	O-C-N	19.09	148.05	122.27
5	4-M	342	PRO	O-C-N	19.09	148.05	122.27
5	5-M	342	PRO	O-C-N	19.09	148.05	122.27
5	6-M	342	PRO	O-C-N	19.09	148.05	122.27
5	7-M	342	PRO	O-C-N	19.09	148.05	122.27
5	8-M	342	PRO	O-C-N	19.09	148.05	122.27
5	1-G	342	PRO	O-C-N	19.09	148.04	122.27
5	2-G	342	PRO	O-C-N	19.09	148.04	122.27
5	3-G	342	PRO	O-C-N	19.09	148.04	122.27
5	4-G	342	PRO	O-C-N	19.09	148.04	122.27
5	5-G	342	PRO	O-C-N	19.09	148.04	122.27
5	6-G	342	PRO	O-C-N	19.09	148.04	122.27
5	7-G	342	PRO	O-C-N	19.09	148.04	122.27
5	8-G	342	PRO	O-C-N	19.09	148.04	122.27
5	1-S	342	PRO	O-C-N	19.09	148.04	122.27
5	2-S	342	PRO	O-C-N	19.09	148.04	122.27
5	3-S	342	PRO	O-C-N	19.09	148.04	122.27
5	4-S	342	PRO	O-C-N	19.09	148.04	122.27
5	5-S	342	PRO	O-C-N	19.09	148.04	122.27
5	6-S	342	PRO	O-C-N	19.09	148.04	122.27
5	7-S	342	PRO	O-C-N	19.09	148.04	122.27
5	8-S	342	PRO	O-C-N	19.09	148.04	122.27
5	1-Y	342	PRO	O-C-N	19.07	148.02	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	342	PRO	O-C-N	19.07	148.02	122.27
5	3-Y	342	PRO	O-C-N	19.07	148.02	122.27
5	4-Y	342	PRO	O-C-N	19.07	148.02	122.27
5	5-Y	342	PRO	O-C-N	19.07	148.02	122.27
5	6-Y	342	PRO	O-C-N	19.07	148.02	122.27
5	7-Y	342	PRO	O-C-N	19.07	148.02	122.27
5	8-Y	342	PRO	O-C-N	19.07	148.02	122.27
4	1-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	1-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	2-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	2-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	3-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	3-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	4-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	4-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	5-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	5-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	6-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	6-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	7-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	7-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	8-L	452	ARG	CA-C-O	19.00	147.68	120.51
4	8-R	452	ARG	CA-C-O	19.00	147.68	120.51
4	1-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	2-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	3-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	4-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	5-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	6-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	7-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	8-F	452	ARG	CA-C-O	18.99	147.67	120.51
4	1-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	2-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	3-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	4-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	5-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	6-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	7-X	452	ARG	CA-C-O	18.99	147.66	120.51
4	8-X	452	ARG	CA-C-O	18.99	147.66	120.51
6	1-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	2-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	3-Z	384	LEU	N-CA-C	-18.92	90.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	5-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	6-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	7-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	8-Z	384	LEU	N-CA-C	-18.92	90.65	111.28
6	1-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	2-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	3-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	4-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	5-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	6-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	7-N	384	LEU	N-CA-C	-18.91	90.67	111.28
6	8-N	384	LEU	N-CA-C	-18.91	90.67	111.28
4	1-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	2-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	3-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	4-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	5-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	6-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	7-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	8-X	463	ILE	N-CA-CB	-18.90	80.04	111.23
4	1-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	2-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	3-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	4-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	5-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	6-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	7-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	8-R	463	ILE	N-CA-CB	-18.90	80.05	111.23
4	1-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	2-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	3-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	4-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	5-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	6-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	7-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
4	8-F	463	ILE	N-CA-CB	-18.89	80.06	111.23
6	1-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	1-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	1-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	2-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	2-V	1519	SER	CA-C-N	-18.89	84.39	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	3-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	3-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	3-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	4-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	4-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	4-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	5-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	5-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	5-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	6-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	6-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	6-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	7-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	7-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	7-V	1519	SER	C-N-CA	-18.89	84.39	121.41
6	8-T	384	LEU	N-CA-C	-18.89	90.69	111.28
3	8-V	1519	SER	CA-C-N	-18.89	84.39	121.41
3	8-V	1519	SER	C-N-CA	-18.89	84.39	121.41
4	1-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	2-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	3-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	4-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	5-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	6-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	7-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
4	8-L	463	ILE	N-CA-CB	-18.88	80.07	111.23
3	1-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	1-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	2-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	2-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	3-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	3-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	4-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	4-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	5-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	5-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	6-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	6-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	7-J	1519	SER	CA-C-N	-18.87	84.42	121.41
3	7-J	1519	SER	C-N-CA	-18.87	84.42	121.41
3	8-J	1519	SER	CA-C-N	-18.87	84.42	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1519	SER	C-N-CA	-18.87	84.42	121.41
6	1-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	2-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	3-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	4-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	5-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	6-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	7-H	384	LEU	N-CA-C	-18.87	90.71	111.28
6	8-H	384	LEU	N-CA-C	-18.87	90.71	111.28
3	1-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	1-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	2-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	2-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	3-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	3-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	4-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	4-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	5-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	5-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	6-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	6-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	7-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	7-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	8-P	1519	SER	CA-C-N	-18.87	84.43	121.41
3	8-P	1519	SER	C-N-CA	-18.87	84.43	121.41
3	1-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	1-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	2-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	2-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	3-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	3-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	4-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	4-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	5-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	5-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	6-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	6-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	7-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	7-D	1519	SER	C-N-CA	-18.86	84.44	121.41
3	8-D	1519	SER	CA-C-N	-18.86	84.44	121.41
3	8-D	1519	SER	C-N-CA	-18.86	84.44	121.41
5	1-Y	340	ALA	N-CA-CB	18.80	141.43	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	3-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	4-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	5-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	6-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	7-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	8-Y	340	ALA	N-CA-CB	18.80	141.43	110.79
5	1-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	2-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	3-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	4-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	5-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	6-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	7-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	8-M	340	ALA	N-CA-CB	18.77	141.38	110.79
5	1-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	2-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	3-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	4-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	5-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	6-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	7-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	8-G	340	ALA	N-CA-CB	18.75	141.35	110.79
5	1-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	2-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	3-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	4-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	5-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	6-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	7-S	340	ALA	N-CA-CB	18.74	141.34	110.79
5	8-S	340	ALA	N-CA-CB	18.74	141.34	110.79
4	1-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	2-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	3-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	4-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	5-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	6-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	7-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	8-R	293	ILE	CB-CA-C	-18.58	88.18	111.97
4	1-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	2-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	3-L	293	ILE	CB-CA-C	-18.57	88.21	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	5-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	6-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	7-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	8-L	293	ILE	CB-CA-C	-18.57	88.21	111.97
4	1-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	2-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	3-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	4-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	5-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	6-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	7-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	8-F	293	ILE	CB-CA-C	-18.56	88.21	111.97
4	1-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	2-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	3-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	4-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	5-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	6-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	7-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
4	8-X	293	ILE	CB-CA-C	-18.56	88.22	111.97
5	1-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	2-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	3-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	4-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	5-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	6-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	7-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	8-S	320	LYS	N-CA-C	18.49	137.13	112.90
5	1-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	1-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	2-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	2-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	3-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	3-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	4-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	4-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	5-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	5-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	6-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	6-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	7-Y	339	TYR	CA-C-N	-18.48	93.27	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	8-Y	339	TYR	CA-C-N	-18.48	93.27	121.72
5	8-Y	339	TYR	C-N-CA	-18.48	93.27	121.72
5	1-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	1-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	2-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	2-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	3-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	3-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	4-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	4-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	5-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	5-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	6-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	6-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	7-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	7-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	8-M	339	TYR	CA-C-N	-18.47	93.27	121.72
5	8-M	339	TYR	C-N-CA	-18.47	93.27	121.72
5	1-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	1-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	2-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	2-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	3-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	3-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	4-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	4-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	5-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	5-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	6-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	6-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	7-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	7-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	8-S	339	TYR	CA-C-N	-18.46	93.29	121.72
5	8-S	339	TYR	C-N-CA	-18.46	93.29	121.72
5	1-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	2-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	3-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	4-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	5-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	6-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	7-G	320	LYS	N-CA-C	18.46	137.08	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	320	LYS	N-CA-C	18.46	137.08	112.90
5	1-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	2-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	3-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	4-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	5-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	6-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	7-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	8-Y	320	LYS	N-CA-C	18.45	137.08	112.90
5	1-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	1-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	2-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	2-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	3-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	3-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	4-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	4-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	5-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	5-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	6-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	6-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	7-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	7-G	339	TYR	C-N-CA	-18.45	93.31	121.72
5	8-G	339	TYR	CA-C-N	-18.45	93.31	121.72
5	8-G	339	TYR	C-N-CA	-18.45	93.31	121.72
6	1-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	2-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	3-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	4-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	5-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	6-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	7-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	8-T	411	GLU	O-C-N	-18.24	98.33	122.59
6	1-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	2-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	3-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	4-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	5-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	6-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	7-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	8-H	411	GLU	O-C-N	-18.23	98.34	122.59
6	1-N	411	GLU	O-C-N	-18.21	98.37	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	2-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	2-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	3-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	3-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	4-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	4-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	5-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	5-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	6-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	6-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	7-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	7-Z	411	GLU	O-C-N	-18.21	98.37	122.59
6	8-N	411	GLU	O-C-N	-18.21	98.37	122.59
6	8-Z	411	GLU	O-C-N	-18.21	98.37	122.59
4	1-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	2-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	3-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	4-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	5-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	6-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	7-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	8-F	448	ARG	CA-C-O	18.20	142.03	119.10
4	1-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	2-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	3-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	4-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	5-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	6-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	7-X	448	ARG	CA-C-O	18.19	142.02	119.10
4	8-X	448	ARG	CA-C-O	18.19	142.02	119.10
3	1-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	1-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	2-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	2-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	3-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	3-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	4-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	4-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	5-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	5-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	6-D	1509	GLN	CA-C-N	-18.18	82.54	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	7-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	7-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
3	8-D	1509	GLN	CA-C-N	-18.18	82.54	121.80
3	8-D	1509	GLN	C-N-CA	-18.18	82.54	121.80
4	1-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	2-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	3-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	4-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	5-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	6-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	7-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	8-R	448	ARG	CA-C-O	18.17	141.99	119.10
4	1-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	2-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	3-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	4-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	5-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	6-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	7-L	448	ARG	CA-C-O	18.16	141.98	119.10
4	8-L	448	ARG	CA-C-O	18.16	141.98	119.10
3	1-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	1-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	2-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	2-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	3-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	3-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	4-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	4-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	5-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	5-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	6-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	6-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	7-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	7-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	8-V	1509	GLN	CA-C-N	-18.13	82.63	121.80
3	8-V	1509	GLN	C-N-CA	-18.13	82.63	121.80
3	1-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	1-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	1-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	1-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	2-J	1509	GLN	CA-C-N	-18.13	82.65	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	2-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	2-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	3-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	3-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	3-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	3-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	4-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	4-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	4-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	4-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	5-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	5-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	5-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	5-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	6-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	6-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	6-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	6-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	7-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	7-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	7-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	7-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	8-J	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	8-J	1509	GLN	C-N-CA	-18.13	82.65	121.80
3	8-P	1509	GLN	CA-C-N	-18.13	82.65	121.80
3	8-P	1509	GLN	C-N-CA	-18.13	82.65	121.80
6	1-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	2-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	3-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	4-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	5-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	6-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	7-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	8-N	366	ILE	N-CA-CB	18.11	131.74	110.55
6	1-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	2-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	3-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	4-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	5-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	6-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	7-H	366	ILE	N-CA-CB	18.11	131.73	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	366	ILE	N-CA-CB	18.11	131.73	110.55
6	1-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	2-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	3-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	4-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	5-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	6-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	7-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	8-Z	366	ILE	N-CA-CB	18.09	131.72	110.55
6	1-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	2-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	3-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	4-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	5-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	6-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	7-T	366	ILE	N-CA-CB	18.08	131.70	110.55
6	8-T	366	ILE	N-CA-CB	18.08	131.70	110.55
4	1-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	2-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	3-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	4-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	5-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	6-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	7-R	456	ASP	O-C-N	-17.81	103.76	122.64
4	8-R	456	ASP	O-C-N	-17.81	103.76	122.64
5	1-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	2-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	3-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	4-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	5-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	6-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	7-Y	343	ALA	O-C-N	-17.81	98.90	122.59
5	8-Y	343	ALA	O-C-N	-17.81	98.90	122.59
4	1-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	2-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	3-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	4-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	5-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	6-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	7-X	456	ASP	O-C-N	-17.81	103.77	122.64
4	8-X	456	ASP	O-C-N	-17.81	103.77	122.64
5	1-S	343	ALA	O-C-N	-17.79	98.93	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	3-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	4-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	5-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	6-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	7-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	8-S	343	ALA	O-C-N	-17.79	98.93	122.59
5	1-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	2-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	3-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	4-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	5-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	6-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	7-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	8-M	343	ALA	O-C-N	-17.78	98.94	122.59
5	1-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	2-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	3-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	4-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	5-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	6-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	7-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	8-G	343	ALA	O-C-N	-17.78	98.95	122.59
5	1-S	326	LEU	O-C-N	17.61	146.01	122.59
5	2-S	326	LEU	O-C-N	17.61	146.01	122.59
5	3-S	326	LEU	O-C-N	17.61	146.01	122.59
5	4-S	326	LEU	O-C-N	17.61	146.01	122.59
5	5-S	326	LEU	O-C-N	17.61	146.01	122.59
5	6-S	326	LEU	O-C-N	17.61	146.01	122.59
5	7-S	326	LEU	O-C-N	17.61	146.01	122.59
5	8-S	326	LEU	O-C-N	17.61	146.01	122.59
5	1-G	326	LEU	O-C-N	17.59	145.98	122.59
5	2-G	326	LEU	O-C-N	17.59	145.98	122.59
5	3-G	326	LEU	O-C-N	17.59	145.98	122.59
5	4-G	326	LEU	O-C-N	17.59	145.98	122.59
5	5-G	326	LEU	O-C-N	17.59	145.98	122.59
5	6-G	326	LEU	O-C-N	17.59	145.98	122.59
5	7-G	326	LEU	O-C-N	17.59	145.98	122.59
5	8-G	326	LEU	O-C-N	17.59	145.98	122.59
5	1-M	326	LEU	O-C-N	17.59	145.98	122.59
5	2-M	326	LEU	O-C-N	17.59	145.98	122.59
5	3-M	326	LEU	O-C-N	17.59	145.98	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-M	326	LEU	O-C-N	17.59	145.98	122.59
5	5-M	326	LEU	O-C-N	17.59	145.98	122.59
5	6-M	326	LEU	O-C-N	17.59	145.98	122.59
5	7-M	326	LEU	O-C-N	17.59	145.98	122.59
5	8-M	326	LEU	O-C-N	17.59	145.98	122.59
5	1-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	2-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	3-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	4-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	5-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	6-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	7-Y	326	LEU	O-C-N	17.58	145.98	122.59
5	8-Y	326	LEU	O-C-N	17.58	145.98	122.59
6	1-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	1-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	2-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	2-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	3-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	3-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	4-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	4-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	5-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	5-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	6-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	6-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	7-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	7-S	343	ALA	CA-C-O	17.50	145.53	120.51
6	8-N	490	GLN	CB-CA-C	-17.50	79.54	109.99
5	8-S	343	ALA	CA-C-O	17.50	145.53	120.51
4	1-L	420	GLU	O-C-N	17.50	140.80	122.08
5	1-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	2-L	420	GLU	O-C-N	17.50	140.80	122.08
5	2-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	3-L	420	GLU	O-C-N	17.50	140.80	122.08
5	3-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	4-L	420	GLU	O-C-N	17.50	140.80	122.08
5	4-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	5-L	420	GLU	O-C-N	17.50	140.80	122.08
5	5-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	6-L	420	GLU	O-C-N	17.50	140.80	122.08
5	6-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	7-L	420	GLU	O-C-N	17.50	140.80	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	343	ALA	CA-C-O	17.50	145.53	120.51
4	8-L	420	GLU	O-C-N	17.50	140.80	122.08
5	8-Y	343	ALA	CA-C-O	17.50	145.53	120.51
6	1-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	2-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	3-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	4-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	5-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	6-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	7-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	8-Z	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	1-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	1-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	2-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	2-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	3-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	3-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	4-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	4-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	5-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	5-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	6-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	6-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	7-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	7-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	8-H	490	GLN	CB-CA-C	-17.49	79.55	109.99
6	8-T	490	GLN	CB-CA-C	-17.49	79.55	109.99
5	1-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	2-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	3-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	4-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	5-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	6-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	7-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	8-G	343	ALA	CA-C-O	17.48	145.51	120.51
5	1-M	343	ALA	CA-C-O	17.48	145.51	120.51
5	2-M	343	ALA	CA-C-O	17.48	145.51	120.51
5	3-M	343	ALA	CA-C-O	17.48	145.51	120.51
5	4-M	343	ALA	CA-C-O	17.48	145.51	120.51
5	5-M	343	ALA	CA-C-O	17.48	145.51	120.51
5	6-M	343	ALA	CA-C-O	17.48	145.51	120.51
5	7-M	343	ALA	CA-C-O	17.48	145.51	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-M	343	ALA	CA-C-O	17.48	145.51	120.51
4	1-F	420	GLU	O-C-N	17.45	140.75	122.08
4	2-F	420	GLU	O-C-N	17.45	140.75	122.08
4	3-F	420	GLU	O-C-N	17.45	140.75	122.08
4	4-F	420	GLU	O-C-N	17.45	140.75	122.08
4	5-F	420	GLU	O-C-N	17.45	140.75	122.08
4	6-F	420	GLU	O-C-N	17.45	140.75	122.08
4	7-F	420	GLU	O-C-N	17.45	140.75	122.08
4	8-F	420	GLU	O-C-N	17.45	140.75	122.08
6	1-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	2-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	3-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	4-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	5-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	6-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	7-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	8-N	462	GLY	N-CA-C	17.41	132.70	112.50
6	1-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	2-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	3-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	4-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	5-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	6-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	7-H	462	GLY	N-CA-C	17.41	132.69	112.50
6	8-H	462	GLY	N-CA-C	17.41	132.69	112.50
4	1-R	420	GLU	O-C-N	17.40	140.70	122.08
4	2-R	420	GLU	O-C-N	17.40	140.70	122.08
4	3-R	420	GLU	O-C-N	17.40	140.70	122.08
4	4-R	420	GLU	O-C-N	17.40	140.70	122.08
4	5-R	420	GLU	O-C-N	17.40	140.70	122.08
4	6-R	420	GLU	O-C-N	17.40	140.70	122.08
4	7-R	420	GLU	O-C-N	17.40	140.70	122.08
4	8-R	420	GLU	O-C-N	17.40	140.70	122.08
5	1-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	1-X	420	GLU	O-C-N	17.40	140.70	122.08
5	2-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	2-X	420	GLU	O-C-N	17.40	140.70	122.08
5	3-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	3-X	420	GLU	O-C-N	17.40	140.70	122.08
5	4-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	4-X	420	GLU	O-C-N	17.40	140.70	122.08
5	5-M	313	ILE	N-CA-C	-17.40	93.72	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-X	420	GLU	O-C-N	17.40	140.70	122.08
5	6-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	6-X	420	GLU	O-C-N	17.40	140.70	122.08
5	7-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	7-X	420	GLU	O-C-N	17.40	140.70	122.08
5	8-M	313	ILE	N-CA-C	-17.40	93.72	110.42
4	8-X	420	GLU	O-C-N	17.40	140.70	122.08
6	1-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	2-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	3-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	4-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	5-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	6-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	7-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	8-Z	462	GLY	N-CA-C	17.40	132.68	112.50
6	1-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	1-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	2-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	2-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	3-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	3-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	4-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	4-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	5-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	5-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	6-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	6-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	7-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	7-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
6	8-T	462	GLY	N-CA-C	17.39	132.68	112.50
5	8-Y	313	ILE	N-CA-C	-17.39	93.72	110.42
5	1-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	2-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	3-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	4-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	5-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	6-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	7-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	8-S	313	ILE	N-CA-C	-17.39	93.72	110.42
5	1-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	2-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	3-G	313	ILE	N-CA-C	-17.37	93.74	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	5-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	6-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	7-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	8-G	313	ILE	N-CA-C	-17.37	93.74	110.42
5	1-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	2-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	3-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	4-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	5-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	6-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	7-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	8-G	329	GLN	CA-C-O	-17.36	101.46	119.51
5	1-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	2-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	3-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	4-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	5-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	6-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	7-S	329	GLN	CA-C-O	-17.35	101.46	119.51
5	8-S	329	GLN	CA-C-O	-17.35	101.46	119.51
6	1-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	2-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	3-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	4-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	5-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	6-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	7-Z	494	LEU	CA-C-O	17.34	145.30	120.51
6	8-Z	494	LEU	CA-C-O	17.34	145.30	120.51
5	1-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	2-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	3-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	4-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	5-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	6-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	7-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	8-Y	329	GLN	CA-C-O	-17.34	101.48	119.51
5	1-M	329	GLN	CA-C-O	-17.33	101.48	119.51
5	2-M	329	GLN	CA-C-O	-17.33	101.48	119.51
5	3-M	329	GLN	CA-C-O	-17.33	101.48	119.51
5	4-M	329	GLN	CA-C-O	-17.33	101.48	119.51
5	5-M	329	GLN	CA-C-O	-17.33	101.48	119.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	329	GLN	CA-C-O	-17.33	101.48	119.51
5	7-M	329	GLN	CA-C-O	-17.33	101.48	119.51
5	8-M	329	GLN	CA-C-O	-17.33	101.48	119.51
6	1-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	2-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	3-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	4-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	5-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	6-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	7-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	8-H	494	LEU	CA-C-O	17.33	145.29	120.51
6	1-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	2-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	3-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	4-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	5-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	6-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	7-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	8-T	494	LEU	CA-C-O	17.32	145.28	120.51
6	1-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	2-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	3-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	4-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	5-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	6-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	7-N	494	LEU	CA-C-O	17.31	145.27	120.51
6	8-N	494	LEU	CA-C-O	17.31	145.27	120.51
4	1-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	2-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	3-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	4-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	5-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	6-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	7-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	8-X	461	ARG	CB-CA-C	-17.18	76.23	110.42
4	1-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	2-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	3-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	4-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	5-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	6-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	7-F	461	ARG	CB-CA-C	-17.18	76.24	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	461	ARG	CB-CA-C	-17.18	76.24	110.42
4	1-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	1-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	2-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	2-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	3-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	3-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	4-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	4-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	5-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	5-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	6-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	6-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	7-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	7-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	8-L	461	ARG	CB-CA-C	-17.17	76.25	110.42
4	8-R	461	ARG	CB-CA-C	-17.17	76.25	110.42
5	1-S	339	TYR	O-C-N	17.09	142.71	123.40
5	2-S	339	TYR	O-C-N	17.09	142.71	123.40
5	3-S	339	TYR	O-C-N	17.09	142.71	123.40
5	4-S	339	TYR	O-C-N	17.09	142.71	123.40
5	5-S	339	TYR	O-C-N	17.09	142.71	123.40
5	6-S	339	TYR	O-C-N	17.09	142.71	123.40
5	7-S	339	TYR	O-C-N	17.09	142.71	123.40
5	8-S	339	TYR	O-C-N	17.09	142.71	123.40
5	1-G	339	TYR	O-C-N	17.08	142.70	123.40
5	2-G	339	TYR	O-C-N	17.08	142.70	123.40
5	3-G	339	TYR	O-C-N	17.08	142.70	123.40
5	4-G	339	TYR	O-C-N	17.08	142.70	123.40
5	5-G	339	TYR	O-C-N	17.08	142.70	123.40
5	6-G	339	TYR	O-C-N	17.08	142.70	123.40
5	7-G	339	TYR	O-C-N	17.08	142.70	123.40
5	8-G	339	TYR	O-C-N	17.08	142.70	123.40
5	1-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	2-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	3-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	4-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	5-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	6-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	7-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	8-Y	339	TYR	O-C-N	17.07	142.69	123.40
5	1-M	339	TYR	O-C-N	17.07	142.69	123.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	339	TYR	O-C-N	17.07	142.69	123.40
5	3-M	339	TYR	O-C-N	17.07	142.69	123.40
5	4-M	339	TYR	O-C-N	17.07	142.69	123.40
5	5-M	339	TYR	O-C-N	17.07	142.69	123.40
5	6-M	339	TYR	O-C-N	17.07	142.69	123.40
5	7-M	339	TYR	O-C-N	17.07	142.69	123.40
5	8-M	339	TYR	O-C-N	17.07	142.69	123.40
5	1-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	2-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	3-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	4-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	5-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	6-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	7-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	8-Y	341	ALA	O-C-N	17.02	140.89	121.32
5	1-M	341	ALA	O-C-N	17.01	140.88	121.32
5	2-M	341	ALA	O-C-N	17.01	140.88	121.32
5	3-M	341	ALA	O-C-N	17.01	140.88	121.32
5	4-M	341	ALA	O-C-N	17.01	140.88	121.32
5	5-M	341	ALA	O-C-N	17.01	140.88	121.32
5	6-M	341	ALA	O-C-N	17.01	140.88	121.32
5	7-M	341	ALA	O-C-N	17.01	140.88	121.32
5	8-M	341	ALA	O-C-N	17.01	140.88	121.32
5	1-G	341	ALA	O-C-N	17.01	140.88	121.32
5	2-G	341	ALA	O-C-N	17.01	140.88	121.32
5	3-G	341	ALA	O-C-N	17.01	140.88	121.32
5	4-G	341	ALA	O-C-N	17.01	140.88	121.32
5	5-G	341	ALA	O-C-N	17.01	140.88	121.32
5	6-G	341	ALA	O-C-N	17.01	140.88	121.32
5	7-G	341	ALA	O-C-N	17.01	140.88	121.32
5	8-G	341	ALA	O-C-N	17.01	140.88	121.32
5	1-S	341	ALA	O-C-N	16.98	140.85	121.32
5	2-S	341	ALA	O-C-N	16.98	140.85	121.32
5	3-S	341	ALA	O-C-N	16.98	140.85	121.32
5	4-S	341	ALA	O-C-N	16.98	140.85	121.32
5	5-S	341	ALA	O-C-N	16.98	140.85	121.32
5	6-S	341	ALA	O-C-N	16.98	140.85	121.32
5	7-S	341	ALA	O-C-N	16.98	140.85	121.32
5	8-S	341	ALA	O-C-N	16.98	140.85	121.32
6	1-N	467	THR	CA-C-N	16.95	150.81	121.14
6	1-N	467	THR	C-N-CA	16.95	150.81	121.14
6	2-N	467	THR	CA-C-N	16.95	150.81	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	467	THR	C-N-CA	16.95	150.81	121.14
6	3-N	467	THR	CA-C-N	16.95	150.81	121.14
6	3-N	467	THR	C-N-CA	16.95	150.81	121.14
6	4-N	467	THR	CA-C-N	16.95	150.81	121.14
6	4-N	467	THR	C-N-CA	16.95	150.81	121.14
6	5-N	467	THR	CA-C-N	16.95	150.81	121.14
6	5-N	467	THR	C-N-CA	16.95	150.81	121.14
6	6-N	467	THR	CA-C-N	16.95	150.81	121.14
6	6-N	467	THR	C-N-CA	16.95	150.81	121.14
6	7-N	467	THR	CA-C-N	16.95	150.81	121.14
6	7-N	467	THR	C-N-CA	16.95	150.81	121.14
6	8-N	467	THR	CA-C-N	16.95	150.81	121.14
6	8-N	467	THR	C-N-CA	16.95	150.81	121.14
4	1-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	2-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	3-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	4-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	5-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	6-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	7-X	433	GLU	N-CA-C	-16.94	92.17	111.82
4	8-X	433	GLU	N-CA-C	-16.94	92.17	111.82
6	1-H	467	THR	CA-C-N	16.94	150.78	121.14
6	1-H	467	THR	C-N-CA	16.94	150.78	121.14
6	1-T	467	THR	CA-C-N	16.94	150.78	121.14
6	1-T	467	THR	C-N-CA	16.94	150.78	121.14
6	2-H	467	THR	CA-C-N	16.94	150.78	121.14
6	2-H	467	THR	C-N-CA	16.94	150.78	121.14
6	2-T	467	THR	CA-C-N	16.94	150.78	121.14
6	2-T	467	THR	C-N-CA	16.94	150.78	121.14
6	3-H	467	THR	CA-C-N	16.94	150.78	121.14
6	3-H	467	THR	C-N-CA	16.94	150.78	121.14
6	3-T	467	THR	CA-C-N	16.94	150.78	121.14
6	3-T	467	THR	C-N-CA	16.94	150.78	121.14
6	4-H	467	THR	CA-C-N	16.94	150.78	121.14
6	4-H	467	THR	C-N-CA	16.94	150.78	121.14
6	4-T	467	THR	CA-C-N	16.94	150.78	121.14
6	4-T	467	THR	C-N-CA	16.94	150.78	121.14
6	5-H	467	THR	CA-C-N	16.94	150.78	121.14
6	5-H	467	THR	C-N-CA	16.94	150.78	121.14
6	5-T	467	THR	CA-C-N	16.94	150.78	121.14
6	5-T	467	THR	C-N-CA	16.94	150.78	121.14
6	6-H	467	THR	CA-C-N	16.94	150.78	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-H	467	THR	C-N-CA	16.94	150.78	121.14
6	6-T	467	THR	CA-C-N	16.94	150.78	121.14
6	6-T	467	THR	C-N-CA	16.94	150.78	121.14
6	7-H	467	THR	CA-C-N	16.94	150.78	121.14
6	7-H	467	THR	C-N-CA	16.94	150.78	121.14
6	7-T	467	THR	CA-C-N	16.94	150.78	121.14
6	7-T	467	THR	C-N-CA	16.94	150.78	121.14
6	8-H	467	THR	CA-C-N	16.94	150.78	121.14
6	8-H	467	THR	C-N-CA	16.94	150.78	121.14
6	8-T	467	THR	CA-C-N	16.94	150.78	121.14
6	8-T	467	THR	C-N-CA	16.94	150.78	121.14
4	1-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	2-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	3-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	4-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	5-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	6-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	7-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	8-R	488	ILE	N-CA-C	16.93	126.68	110.42
4	1-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	2-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	3-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	4-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	5-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	6-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	7-L	488	ILE	N-CA-C	16.93	126.68	110.42
4	8-L	488	ILE	N-CA-C	16.93	126.68	110.42
6	1-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	1-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	2-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	2-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	3-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	3-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	4-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	4-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	5-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	5-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	6-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	6-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	7-Z	467	THR	CA-C-N	16.93	150.76	121.14
6	7-Z	467	THR	C-N-CA	16.93	150.76	121.14
6	8-Z	467	THR	CA-C-N	16.93	150.76	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	467	THR	C-N-CA	16.93	150.76	121.14
4	1-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	2-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	3-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	4-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	5-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	6-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	7-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	8-F	488	ILE	N-CA-C	16.92	126.67	110.42
4	1-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	2-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	3-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	4-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	5-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	6-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	7-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	8-L	454	TYR	N-CA-CB	-16.92	81.89	110.49
4	1-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	1-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	2-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	2-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	3-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	3-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	4-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	4-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	5-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	5-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	6-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	6-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	7-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	7-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	8-F	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	8-R	454	TYR	N-CA-CB	-16.92	81.90	110.49
4	1-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	2-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	3-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	4-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	5-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	6-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	7-L	433	GLU	N-CA-C	-16.91	92.20	111.82
4	8-L	433	GLU	N-CA-C	-16.91	92.20	111.82
5	1-Y	333	PRO	N-CA-CB	16.91	121.01	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
5	3-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
5	4-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
5	5-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
5	6-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
5	7-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
5	8-Y	333	PRO	N-CA-CB	16.91	121.01	103.25
4	1-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	2-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	3-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	4-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	5-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	6-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	7-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	8-X	488	ILE	N-CA-C	16.91	126.65	110.42
4	1-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	2-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	3-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	4-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	5-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	6-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	7-R	433	GLU	N-CA-C	-16.90	92.22	111.82
4	8-R	433	GLU	N-CA-C	-16.90	92.22	111.82
5	1-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	1-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	2-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	2-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	3-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	3-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	4-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	4-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	5-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	5-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	6-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	6-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	7-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	7-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	8-S	333	PRO	N-CA-CB	16.90	120.99	103.25
4	8-X	454	TYR	N-CA-CB	-16.90	81.93	110.49
5	1-G	333	PRO	N-CA-CB	16.89	120.99	103.25
5	2-G	333	PRO	N-CA-CB	16.89	120.99	103.25
5	3-G	333	PRO	N-CA-CB	16.89	120.99	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	333	PRO	N-CA-CB	16.89	120.99	103.25
5	5-G	333	PRO	N-CA-CB	16.89	120.99	103.25
5	6-G	333	PRO	N-CA-CB	16.89	120.99	103.25
5	7-G	333	PRO	N-CA-CB	16.89	120.99	103.25
5	8-G	333	PRO	N-CA-CB	16.89	120.99	103.25
4	1-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	2-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	3-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	4-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	5-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	6-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	7-F	433	GLU	N-CA-C	-16.88	92.24	111.82
4	8-F	433	GLU	N-CA-C	-16.88	92.24	111.82
5	1-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	2-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	3-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	4-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	5-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	6-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	7-M	333	PRO	N-CA-CB	16.86	120.96	103.25
5	8-M	333	PRO	N-CA-CB	16.86	120.96	103.25
3	1-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	2-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	3-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	4-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	5-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	6-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	7-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	8-J	1449	TRP	CA-C-O	16.82	144.57	120.51
3	1-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	2-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	3-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	4-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	5-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	6-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	7-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	8-D	1449	TRP	CA-C-O	16.80	144.53	120.51
3	1-P	1449	TRP	CA-C-O	16.80	144.53	120.51
3	2-P	1449	TRP	CA-C-O	16.80	144.53	120.51
3	3-P	1449	TRP	CA-C-O	16.80	144.53	120.51
3	4-P	1449	TRP	CA-C-O	16.80	144.53	120.51
3	5-P	1449	TRP	CA-C-O	16.80	144.53	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-P	1449	TRP	CA-C-O	16.80	144.53	120.51
3	7-P	1449	TRP	CA-C-O	16.80	144.53	120.51
3	8-P	1449	TRP	CA-C-O	16.80	144.53	120.51
6	1-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	2-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	3-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	4-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	5-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	6-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	7-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	8-T	446	ARG	CB-CA-C	16.76	137.57	110.92
6	1-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	2-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	3-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	4-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	5-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	6-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	7-H	446	ARG	CB-CA-C	16.76	137.57	110.92
6	8-H	446	ARG	CB-CA-C	16.76	137.57	110.92
3	1-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	2-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	3-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	4-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	5-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	6-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	7-V	1449	TRP	CA-C-O	16.76	144.47	120.51
3	8-V	1449	TRP	CA-C-O	16.76	144.47	120.51
6	1-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	2-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	3-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	4-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	5-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	6-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	7-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	8-N	446	ARG	CB-CA-C	16.75	137.56	110.92
6	1-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
6	2-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
6	3-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
6	4-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
6	5-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
6	6-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
6	7-Z	446	ARG	CB-CA-C	16.74	137.53	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	446	ARG	CB-CA-C	16.74	137.53	110.92
3	1-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	1-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	2-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	2-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	3-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	3-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	4-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	4-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	5-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	5-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	6-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	6-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	7-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	7-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	8-J	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	8-J	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	1-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	1-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	2-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	2-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	3-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	3-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	4-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	4-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	5-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	5-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	6-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	6-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	7-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	7-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	8-P	1485	ALA	CA-C-N	-16.68	97.93	120.28
3	8-P	1485	ALA	C-N-CA	-16.68	97.93	120.28
3	1-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	1-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	2-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	2-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	3-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	3-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	4-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	4-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	5-D	1485	ALA	CA-C-N	-16.67	97.94	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	6-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	6-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	7-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	7-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
3	8-D	1485	ALA	CA-C-N	-16.67	97.94	120.28
3	8-D	1485	ALA	C-N-CA	-16.67	97.94	120.28
4	1-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	2-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	3-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	4-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	5-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	6-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	7-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	8-F	456	ASP	O-C-N	-16.65	103.73	122.55
4	1-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	2-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	3-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	4-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	5-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	6-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	7-L	456	ASP	O-C-N	-16.64	103.75	122.55
4	8-L	456	ASP	O-C-N	-16.64	103.75	122.55
3	1-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	1-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	2-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	2-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	3-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	3-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	4-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	4-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	5-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	5-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	6-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	6-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	7-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	7-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	8-V	1485	ALA	CA-C-N	-16.64	97.99	120.28
3	8-V	1485	ALA	C-N-CA	-16.64	97.99	120.28
3	1-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	1-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	2-V	1513	LEU	CA-C-N	-16.59	96.73	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	3-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	3-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	4-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	4-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	5-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	5-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	6-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	6-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	7-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	7-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	8-V	1513	LEU	CA-C-N	-16.59	96.73	120.29
3	8-V	1513	LEU	C-N-CA	-16.59	96.73	120.29
3	1-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	1-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	1-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	1-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	2-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	2-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	2-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	2-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	3-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	3-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	3-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	3-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	4-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	4-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	4-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	4-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	5-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	5-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	5-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	5-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	6-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	6-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	6-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	6-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	7-D	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	7-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	7-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	7-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	8-D	1513	LEU	CA-C-N	-16.58	96.74	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	8-J	1513	LEU	CA-C-N	-16.58	96.74	120.29
3	8-J	1513	LEU	C-N-CA	-16.58	96.74	120.29
3	1-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	1-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	2-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	2-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	3-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	3-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	4-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	4-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	5-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	5-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	6-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	6-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	7-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	7-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
3	8-P	1513	LEU	CA-C-N	-16.57	96.75	120.29
3	8-P	1513	LEU	C-N-CA	-16.57	96.75	120.29
6	1-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	1-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	2-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	2-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	3-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	3-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	4-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	4-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	5-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	5-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	6-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	6-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	7-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	7-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	8-N	490	GLN	CA-C-N	-16.43	96.96	120.29
6	8-N	490	GLN	C-N-CA	-16.43	96.96	120.29
6	1-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	1-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	2-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	2-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	3-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	3-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	4-H	490	GLN	CA-C-N	-16.42	96.98	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	5-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	5-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	6-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	6-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	7-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	7-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	8-H	490	GLN	CA-C-N	-16.42	96.98	120.29
6	8-H	490	GLN	C-N-CA	-16.42	96.98	120.29
6	1-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	1-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	2-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	2-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	3-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	3-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	4-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	4-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	5-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	5-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	6-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	6-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	7-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	7-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	8-T	490	GLN	CA-C-N	-16.39	97.01	120.29
6	8-T	490	GLN	C-N-CA	-16.39	97.01	120.29
6	1-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	1-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	2-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	2-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	3-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	3-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	4-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	4-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	5-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	5-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	6-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	6-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	7-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	7-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
6	8-Z	490	GLN	CA-C-N	-16.39	97.02	120.29
6	8-Z	490	GLN	C-N-CA	-16.39	97.02	120.29
4	1-R	400	GLY	CA-C-N	-16.26	90.48	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	2-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	2-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	3-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	3-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	4-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	4-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	5-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	5-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	6-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	6-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	7-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	7-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	8-R	400	GLY	CA-C-N	-16.26	90.48	121.54
4	8-R	400	GLY	C-N-CA	-16.26	90.48	121.54
4	1-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	1-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	2-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	2-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	3-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	3-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	4-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	4-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	5-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	5-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	6-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	6-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	7-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	7-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	8-X	400	GLY	CA-C-N	-16.26	90.48	121.54
4	8-X	400	GLY	C-N-CA	-16.26	90.48	121.54
4	1-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	1-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	2-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	2-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	3-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	3-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	4-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	4-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	5-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	5-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	6-L	400	GLY	CA-C-N	-16.26	90.49	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	7-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	7-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	8-L	400	GLY	CA-C-N	-16.26	90.49	121.54
4	8-L	400	GLY	C-N-CA	-16.26	90.49	121.54
4	1-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	1-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	2-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	2-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	3-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	3-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	4-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	4-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	5-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	5-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	6-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	6-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	7-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	7-F	400	GLY	C-N-CA	-16.25	90.51	121.54
4	8-F	400	GLY	CA-C-N	-16.25	90.51	121.54
4	8-F	400	GLY	C-N-CA	-16.25	90.51	121.54
5	1-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	2-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	3-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	4-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	5-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	6-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	7-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	8-G	339	TYR	CA-C-O	-16.23	100.14	120.27
5	1-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	2-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	3-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	4-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	5-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	6-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	7-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	8-S	339	TYR	CA-C-O	-16.21	100.17	120.27
5	1-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	2-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	3-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	4-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	5-M	339	TYR	CA-C-O	-16.19	100.19	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	7-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	8-M	339	TYR	CA-C-O	-16.19	100.19	120.27
5	1-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	2-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	3-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	4-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	5-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	6-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	7-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
5	8-Y	339	TYR	CA-C-O	-16.19	100.19	120.27
3	1-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	1-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	2-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	2-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	3-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	3-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	4-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	4-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	5-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	5-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	6-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	6-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	7-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	7-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	8-J	1492	GLY	CA-C-N	16.19	142.56	120.38
3	8-J	1492	GLY	C-N-CA	16.19	142.56	120.38
3	1-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	1-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	2-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	2-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	3-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	3-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	4-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	4-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	5-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	5-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	6-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	6-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	7-P	1492	GLY	CA-C-N	16.18	142.55	120.38
3	7-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	8-P	1492	GLY	CA-C-N	16.18	142.55	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1492	GLY	C-N-CA	16.18	142.55	120.38
3	1-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	1-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	2-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	2-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	3-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	3-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	4-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	4-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	5-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	5-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	6-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	6-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	7-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	7-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	8-D	1492	GLY	CA-C-N	16.16	142.51	120.38
3	8-D	1492	GLY	C-N-CA	16.16	142.51	120.38
3	1-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	1-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	2-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	2-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	3-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	3-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	4-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	4-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	5-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	5-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	6-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	6-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	7-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	7-V	1492	GLY	C-N-CA	16.15	142.50	120.38
3	8-V	1492	GLY	CA-C-N	16.15	142.50	120.38
3	8-V	1492	GLY	C-N-CA	16.15	142.50	120.38
4	1-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	2-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	3-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	4-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	5-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	6-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	7-L	487	ASP	O-C-N	-16.09	101.47	122.39
4	8-L	487	ASP	O-C-N	-16.09	101.47	122.39
3	1-J	1490	GLU	CA-C-N	-16.08	100.30	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	2-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	2-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	3-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	3-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	4-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	4-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	5-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	5-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	6-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	6-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	7-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	7-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
3	8-J	1490	GLU	CA-C-N	-16.08	100.30	120.56
3	8-J	1490	GLU	C-N-CA	-16.08	100.30	120.56
4	1-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	2-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	3-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	4-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	5-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	6-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	7-F	487	ASP	O-C-N	-16.07	101.50	122.39
4	8-F	487	ASP	O-C-N	-16.07	101.50	122.39
3	1-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	1-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	1-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	1-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	2-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	2-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	2-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	2-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	3-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	3-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	3-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	3-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	4-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	4-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	4-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	4-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	5-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	5-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	5-V	1490	GLU	CA-C-N	-16.07	100.32	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	6-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	6-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	6-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	6-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	7-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	7-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	7-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	7-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	8-D	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	8-D	1490	GLU	C-N-CA	-16.07	100.32	120.56
3	8-V	1490	GLU	CA-C-N	-16.07	100.32	120.56
3	8-V	1490	GLU	C-N-CA	-16.07	100.32	120.56
4	1-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	2-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	3-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	4-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	5-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	6-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	7-X	487	ASP	O-C-N	-16.06	101.51	122.39
4	8-X	487	ASP	O-C-N	-16.06	101.51	122.39
3	1-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	1-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	2-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	2-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	3-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	3-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	4-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	4-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	5-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	5-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	6-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	6-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	7-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	7-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
3	8-P	1490	GLU	CA-C-N	-16.06	100.32	120.56
3	8-P	1490	GLU	C-N-CA	-16.06	100.32	120.56
4	1-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	1-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	2-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	2-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	3-L	459	LEU	N-CA-CB	16.05	137.62	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	4-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	4-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	5-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	5-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	6-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	6-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	7-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	7-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	8-L	459	LEU	N-CA-CB	16.05	137.62	110.49
4	8-X	459	LEU	N-CA-CB	16.05	137.62	110.49
4	1-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	2-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	3-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	4-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	5-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	6-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	7-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	8-R	487	ASP	O-C-N	-16.05	101.52	122.39
4	1-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	2-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	3-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	4-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	5-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	6-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	7-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	8-R	459	LEU	N-CA-CB	16.05	137.61	110.49
4	1-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	2-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	3-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	4-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	5-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	6-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	7-F	459	LEU	N-CA-CB	16.04	137.60	110.49
4	8-F	459	LEU	N-CA-CB	16.04	137.60	110.49
5	1-S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	2-S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	3-S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	4-S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	5-S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	6-S	393	TYR	N-CA-C	-15.93	93.13	112.89
5	7-S	393	TYR	N-CA-C	-15.93	93.13	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-S	393	TYR	N-CA-C	-15.93	93.13	112.89
3	1-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	2-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	3-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	4-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	5-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	6-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	7-D	1449	TRP	O-C-N	-15.92	101.41	122.59
3	8-D	1449	TRP	O-C-N	-15.92	101.41	122.59
5	1-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	2-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	3-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	4-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	5-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	6-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	7-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	8-G	393	TYR	N-CA-C	-15.92	93.15	112.89
5	1-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	2-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	3-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	4-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	5-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	6-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	7-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
5	8-Y	393	TYR	N-CA-C	-15.92	93.15	112.89
3	1-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	1-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	2-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	2-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	3-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	3-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	4-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	4-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	5-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	5-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	6-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	6-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	7-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	7-V	1449	TRP	O-C-N	-15.92	101.42	122.59
3	8-J	1449	TRP	O-C-N	-15.92	101.42	122.59
3	8-V	1449	TRP	O-C-N	-15.92	101.42	122.59
4	1-F	450	GLU	N-CA-C	-15.90	76.93	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	1-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	2-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	2-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	2-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	3-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	3-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	3-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	4-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	4-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	4-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	5-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	5-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	5-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	6-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	6-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	6-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	7-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	7-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	7-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	8-F	450	GLU	N-CA-C	-15.90	76.93	110.80
4	8-R	450	GLU	N-CA-C	-15.90	76.93	110.80
4	8-X	451	GLU	CA-C-O	15.90	143.25	120.51
4	1-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	2-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	3-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	4-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	5-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	6-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	7-L	450	GLU	N-CA-C	-15.90	76.93	110.80
4	8-L	450	GLU	N-CA-C	-15.90	76.93	110.80
3	1-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	2-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	3-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	4-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	5-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	6-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	7-D	1506	VAL	CA-C-O	15.90	137.70	120.85
3	8-D	1506	VAL	CA-C-O	15.90	137.70	120.85
4	1-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	2-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	3-X	450	GLU	N-CA-C	-15.89	76.94	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	5-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	6-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	7-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	8-X	450	GLU	N-CA-C	-15.89	76.94	110.80
4	1-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	2-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	3-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	4-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	5-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	6-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	7-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	8-F	451	GLU	CA-C-O	15.89	143.24	120.51
4	1-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	2-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	3-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	4-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	5-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	6-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	7-L	451	GLU	CA-C-O	15.89	143.23	120.51
4	8-L	451	GLU	CA-C-O	15.89	143.23	120.51
3	1-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	2-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	3-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	4-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	5-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	6-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	7-P	1449	TRP	O-C-N	-15.89	101.46	122.59
3	8-P	1449	TRP	O-C-N	-15.89	101.46	122.59
5	1-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	1-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	2-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	2-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	3-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	3-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	4-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	4-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	5-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	5-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	6-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	6-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	7-M	393	TYR	N-CA-C	-15.88	93.20	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1506	VAL	CA-C-O	15.88	137.68	120.85
5	8-M	393	TYR	N-CA-C	-15.88	93.20	112.89
3	8-V	1506	VAL	CA-C-O	15.88	137.68	120.85
4	1-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	2-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	3-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	4-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	5-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	6-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	7-R	451	GLU	CA-C-O	15.88	143.21	120.51
4	8-R	451	GLU	CA-C-O	15.88	143.21	120.51
3	1-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	1-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	2-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	2-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	3-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	3-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	4-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	4-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	5-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	5-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	6-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	6-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	7-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	7-P	1506	VAL	CA-C-O	15.87	137.68	120.85
3	8-J	1506	VAL	CA-C-O	15.87	137.68	120.85
3	8-P	1506	VAL	CA-C-O	15.87	137.68	120.85
6	1-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	1-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	2-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	2-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	3-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	3-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	4-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	4-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	5-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	5-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	6-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	6-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	7-N	494	LEU	CA-C-N	-15.82	94.28	120.71
6	7-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	8-N	494	LEU	CA-C-N	-15.82	94.28	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	494	LEU	C-N-CA	-15.82	94.28	120.71
6	1-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	1-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	2-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	2-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	3-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	3-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	4-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	4-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	5-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	5-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	6-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	6-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	7-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	7-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	8-Z	494	LEU	CA-C-N	-15.82	94.29	120.71
6	8-Z	494	LEU	C-N-CA	-15.82	94.29	120.71
6	1-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	1-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	1-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	1-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	2-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	2-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	2-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	2-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	3-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	3-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	3-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	3-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	4-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	4-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	4-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	4-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	5-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	5-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	5-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	5-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	6-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	6-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	6-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	6-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	7-H	494	LEU	CA-C-N	-15.82	94.30	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	7-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	7-T	494	LEU	C-N-CA	-15.82	94.30	120.71
6	8-H	494	LEU	CA-C-N	-15.82	94.30	120.71
6	8-H	494	LEU	C-N-CA	-15.82	94.30	120.71
6	8-T	494	LEU	CA-C-N	-15.82	94.30	120.71
6	8-T	494	LEU	C-N-CA	-15.82	94.30	120.71
4	1-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	2-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	3-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	4-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	5-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	6-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	7-X	455	ILE	N-CA-C	15.81	142.23	109.34
4	8-X	455	ILE	N-CA-C	15.81	142.23	109.34
5	1-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	1-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	1-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	3-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	6-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	1-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	2-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	2-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	2-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	2-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	3-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	3-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	3-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	4-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	4-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	4-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	4-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	5-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	5-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	5-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	5-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	6-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	6-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	7-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	6-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	7-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	7-R	455	ILE	N-CA-C	15.81	142.22	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
5	8-G	326	LEU	CB-CA-C	-15.81	78.96	110.42
4	8-R	455	ILE	N-CA-C	15.81	142.22	109.34
5	8-S	326	LEU	CB-CA-C	-15.81	78.96	110.42
5	8-Y	326	LEU	CB-CA-C	-15.81	78.97	110.42
4	1-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	2-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	3-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	4-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	5-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	6-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	7-F	455	ILE	N-CA-C	15.80	142.21	109.34
4	8-F	455	ILE	N-CA-C	15.80	142.21	109.34
5	1-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	2-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	3-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	4-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	5-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	6-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	7-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
5	8-M	326	LEU	CB-CA-C	-15.80	78.98	110.42
4	1-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	2-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	3-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	4-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	5-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	6-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	7-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	8-L	455	ILE	N-CA-C	15.79	142.19	109.34
4	1-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	2-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	3-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	4-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	5-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	6-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	7-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	8-L	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	1-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	2-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	3-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	4-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	5-X	464	LYS	CB-CA-C	-15.72	79.14	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	7-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	8-X	464	LYS	CB-CA-C	-15.72	79.14	110.42
4	1-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	2-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	3-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	4-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	5-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	6-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	7-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	8-F	464	LYS	CB-CA-C	-15.71	79.16	110.42
4	1-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	2-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	3-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	4-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	5-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	6-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	7-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
4	8-R	464	LYS	CB-CA-C	-15.71	79.17	110.42
3	1-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	1-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	2-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	2-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	3-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	3-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	4-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	4-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	5-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	5-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	6-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	6-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	7-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	7-J	1538	SER	C-N-CA	15.64	142.81	120.28
3	8-J	1538	SER	CA-C-N	15.64	142.81	120.28
3	8-J	1538	SER	C-N-CA	15.64	142.81	120.28
4	1-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	1-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	2-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	2-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	3-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	3-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	4-L	466	HIS	CA-C-N	-15.64	95.58	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	5-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	5-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	6-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	6-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	7-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	7-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	8-L	466	HIS	CA-C-N	-15.64	95.58	120.60
4	8-L	466	HIS	C-N-CA	-15.64	95.58	120.60
4	1-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	1-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	2-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	2-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	3-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	3-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	4-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	4-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	5-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	5-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	6-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	6-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	7-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	7-R	466	HIS	C-N-CA	-15.63	95.59	120.60
4	8-R	466	HIS	CA-C-N	-15.63	95.59	120.60
4	8-R	466	HIS	C-N-CA	-15.63	95.59	120.60
3	1-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	1-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	2-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	2-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	3-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	3-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	4-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	4-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	5-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	5-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	6-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	6-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	7-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	7-D	1538	SER	C-N-CA	15.63	142.78	120.28
3	8-D	1538	SER	CA-C-N	15.63	142.78	120.28
3	8-D	1538	SER	C-N-CA	15.63	142.78	120.28
4	1-F	466	HIS	CA-C-N	-15.62	95.60	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	2-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	2-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	3-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	3-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	4-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	4-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	5-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	5-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	6-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	6-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	7-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	7-F	466	HIS	C-N-CA	-15.62	95.60	120.60
4	8-F	466	HIS	CA-C-N	-15.62	95.60	120.60
4	8-F	466	HIS	C-N-CA	-15.62	95.60	120.60
3	1-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	1-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	1-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	1-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	2-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	2-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	2-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	2-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	3-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	3-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	3-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	3-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	4-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	4-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	4-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	4-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	5-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	5-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	5-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	5-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	6-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	6-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	6-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	6-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	7-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	7-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	7-X	466	HIS	CA-C-N	-15.62	95.62	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	8-V	1538	SER	CA-C-N	15.61	142.76	120.28
3	8-V	1538	SER	C-N-CA	15.61	142.76	120.28
4	8-X	466	HIS	CA-C-N	-15.62	95.62	120.60
4	8-X	466	HIS	C-N-CA	-15.62	95.62	120.60
3	1-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	1-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	2-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	2-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	3-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	3-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	4-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	4-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	5-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	5-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	6-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	6-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	7-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	7-P	1538	SER	C-N-CA	15.61	142.76	120.28
3	8-P	1538	SER	CA-C-N	15.61	142.76	120.28
3	8-P	1538	SER	C-N-CA	15.61	142.76	120.28
4	1-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	2-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	3-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	4-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	5-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	6-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	7-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	8-L	453	TYR	N-CA-C	-15.58	77.62	110.80
4	1-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	2-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	3-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	4-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	5-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	6-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	7-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	8-X	453	TYR	N-CA-C	-15.58	77.62	110.80
4	1-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	2-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	3-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	4-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	5-F	453	TYR	N-CA-C	-15.57	77.63	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	7-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	8-F	453	TYR	N-CA-C	-15.57	77.63	110.80
4	1-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	2-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	3-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	4-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	5-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	6-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	7-R	453	TYR	N-CA-C	-15.57	77.64	110.80
4	8-R	453	TYR	N-CA-C	-15.57	77.64	110.80
3	1-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	1-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	2-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	2-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	3-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	3-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	4-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	4-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	5-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	5-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	6-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	6-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	7-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	7-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	8-P	1473	TYR	CA-C-N	15.51	137.52	119.99
3	8-P	1473	TYR	C-N-CA	15.51	137.52	119.99
3	1-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	1-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	1-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	1-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	2-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	2-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	2-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	2-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	3-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	3-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	3-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	3-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	4-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	4-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	4-V	1474	GLY	CA-C-N	-15.49	98.29	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	5-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	5-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	5-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	5-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	6-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	6-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	6-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	6-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	7-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	7-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	7-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	7-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	8-J	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	8-J	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	8-V	1474	GLY	CA-C-N	-15.49	98.29	120.29
3	8-V	1474	GLY	C-N-CA	-15.49	98.29	120.29
3	1-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	1-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	2-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	2-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	3-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	3-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	4-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	4-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	5-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	5-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	6-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	6-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	7-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	7-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	8-P	1474	GLY	CA-C-N	-15.48	98.30	120.29
3	8-P	1474	GLY	C-N-CA	-15.48	98.30	120.29
3	1-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	1-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	2-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	2-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	3-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	3-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	4-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	4-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	5-D	1474	GLY	CA-C-N	-15.48	98.31	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	6-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	6-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	7-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	7-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	8-D	1474	GLY	CA-C-N	-15.48	98.31	120.29
3	8-D	1474	GLY	C-N-CA	-15.48	98.31	120.29
3	1-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	1-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	2-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	2-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	3-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	3-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	4-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	4-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	5-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	5-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	6-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	6-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	7-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	7-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	8-D	1473	TYR	CA-C-N	15.45	137.44	119.99
3	8-D	1473	TYR	C-N-CA	15.45	137.44	119.99
3	1-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	1-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	1-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	2-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	2-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	2-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	3-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	3-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	3-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	4-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	4-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	4-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	5-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	5-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	5-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	6-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	6-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	6-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	7-J	1473	TYR	CA-C-N	15.44	137.43	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	7-L	448	ARG	N-CA-C	15.44	131.39	112.87
3	8-J	1473	TYR	CA-C-N	15.44	137.43	119.99
3	8-J	1473	TYR	C-N-CA	15.44	137.43	119.99
4	8-L	448	ARG	N-CA-C	15.44	131.39	112.87
4	1-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	1-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	2-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	2-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	3-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	3-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	4-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	4-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	5-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	5-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	6-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	6-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	7-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	7-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	8-F	448	ARG	N-CA-C	15.43	131.39	112.87
4	8-X	448	ARG	N-CA-C	15.43	131.39	112.87
4	1-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	2-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	3-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	4-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	5-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	6-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	7-R	448	ARG	N-CA-C	15.43	131.39	112.87
4	8-R	448	ARG	N-CA-C	15.43	131.39	112.87
3	1-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	1-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	2-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	2-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	3-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	3-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	4-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	4-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	5-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	5-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	6-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	6-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	7-V	1473	TYR	CA-C-N	15.42	137.42	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1473	TYR	C-N-CA	15.42	137.42	119.99
3	8-V	1473	TYR	CA-C-N	15.42	137.42	119.99
3	8-V	1473	TYR	C-N-CA	15.42	137.42	119.99
4	1-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	1-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	2-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	2-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	3-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	3-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	4-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	4-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	5-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	5-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	6-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	6-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	7-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	7-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	8-L	487	ASP	CA-C-N	15.38	139.94	120.56
4	8-L	487	ASP	C-N-CA	15.38	139.94	120.56
4	1-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	1-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	2-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	2-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	3-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	3-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	4-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	4-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	5-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	5-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	6-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	6-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	7-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	7-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	8-X	487	ASP	CA-C-N	15.37	139.92	120.56
4	8-X	487	ASP	C-N-CA	15.37	139.92	120.56
4	1-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	1-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	2-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	2-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	3-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	3-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	4-R	487	ASP	CA-C-N	15.36	139.92	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	5-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	5-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	6-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	6-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	7-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	7-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	8-R	487	ASP	CA-C-N	15.36	139.92	120.56
4	8-R	487	ASP	C-N-CA	15.36	139.92	120.56
4	1-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	1-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	2-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	2-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	3-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	3-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	4-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	4-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	5-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	5-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	6-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	6-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	7-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	7-F	487	ASP	C-N-CA	15.36	139.91	120.56
4	8-F	487	ASP	CA-C-N	15.36	139.91	120.56
4	8-F	487	ASP	C-N-CA	15.36	139.91	120.56
5	1-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	2-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	3-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	4-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	5-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	6-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	7-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	8-Y	253	GLN	N-CA-C	-15.24	92.94	111.69
5	1-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	2-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	3-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	4-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	5-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	6-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	7-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	8-S	253	GLN	N-CA-C	-15.22	92.96	111.69
5	1-M	253	GLN	N-CA-C	-15.20	93.00	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	3-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	4-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	5-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	6-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	7-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	8-M	253	GLN	N-CA-C	-15.20	93.00	111.69
5	1-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	2-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	3-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	4-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	5-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	6-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	7-G	253	GLN	N-CA-C	-15.20	93.00	111.69
5	8-G	253	GLN	N-CA-C	-15.20	93.00	111.69
6	1-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	2-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	3-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	4-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	5-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	6-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	7-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	8-N	407	LEU	N-CA-C	-15.15	94.06	112.54
6	1-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	1-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	2-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	2-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	3-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	3-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	4-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	4-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	5-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	5-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	6-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	6-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	7-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	7-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	8-T	407	LEU	N-CA-C	-15.14	94.06	112.54
6	8-Z	407	LEU	N-CA-C	-15.14	94.07	112.54
6	1-H	407	LEU	N-CA-C	-15.14	94.07	112.54
6	2-H	407	LEU	N-CA-C	-15.14	94.07	112.54
6	3-H	407	LEU	N-CA-C	-15.14	94.07	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	407	LEU	N-CA-C	-15.14	94.07	112.54
6	5-H	407	LEU	N-CA-C	-15.14	94.07	112.54
6	6-H	407	LEU	N-CA-C	-15.14	94.07	112.54
6	7-H	407	LEU	N-CA-C	-15.14	94.07	112.54
6	8-H	407	LEU	N-CA-C	-15.14	94.07	112.54
4	1-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	2-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	3-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	4-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	5-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	6-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	7-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	8-X	311	GLN	N-CA-C	-15.14	93.07	111.69
4	1-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	2-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	3-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	4-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	5-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	6-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	7-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	8-R	311	GLN	N-CA-C	-15.11	93.10	111.69
4	1-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	2-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	3-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	4-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	5-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	6-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	7-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	8-F	311	GLN	N-CA-C	-15.11	93.11	111.69
4	1-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	2-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	3-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	4-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	5-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	6-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	7-L	311	GLN	N-CA-C	-15.09	93.13	111.69
4	8-L	311	GLN	N-CA-C	-15.09	93.13	111.69
6	1-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	2-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	3-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	4-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	5-T	388	ARG	N-CA-C	15.02	127.36	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	7-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	8-T	388	ARG	N-CA-C	15.02	127.36	111.14
6	1-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	2-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	3-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	4-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	5-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	6-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	7-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	8-H	388	ARG	N-CA-C	15.01	127.35	111.14
6	1-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	2-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	3-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	4-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	5-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	6-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	7-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	8-Z	388	ARG	N-CA-C	14.98	127.32	111.14
6	1-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	2-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	3-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	4-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	5-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	6-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	7-N	388	ARG	N-CA-C	14.98	127.32	111.14
6	8-N	388	ARG	N-CA-C	14.98	127.32	111.14
5	1-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	1-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	2-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	2-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	3-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	3-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	4-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	4-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	5-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	5-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	6-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	6-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	7-G	334	GLY	CA-C-N	14.96	150.11	121.54
5	7-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	8-G	334	GLY	CA-C-N	14.96	150.11	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	334	GLY	C-N-CA	14.96	150.11	121.54
5	1-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	1-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	2-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	2-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	3-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	3-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	4-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	4-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	5-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	5-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	6-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	6-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	7-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	7-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	8-M	334	GLY	CA-C-N	14.94	150.08	121.54
5	8-M	334	GLY	C-N-CA	14.94	150.08	121.54
5	1-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	1-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	2-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	2-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	3-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	3-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	4-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	4-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	5-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	5-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	6-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	6-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	7-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	7-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	8-S	334	GLY	CA-C-N	14.93	150.06	121.54
5	8-S	334	GLY	C-N-CA	14.93	150.06	121.54
5	1-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	1-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	2-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	2-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	3-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	3-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	4-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	4-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	5-Y	334	GLY	CA-C-N	14.92	150.04	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	6-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	6-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	7-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	7-Y	334	GLY	C-N-CA	14.92	150.04	121.54
5	8-Y	334	GLY	CA-C-N	14.92	150.04	121.54
5	8-Y	334	GLY	C-N-CA	14.92	150.04	121.54
3	1-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	1-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	2-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	2-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	3-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	3-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	4-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	4-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	5-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	5-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	6-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	6-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	7-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	7-D	1545	PRO	C-N-CA	14.92	141.76	120.28
3	8-D	1545	PRO	CA-C-N	14.92	141.76	120.28
3	8-D	1545	PRO	C-N-CA	14.92	141.76	120.28
4	1-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	1-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	1-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	1-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	2-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	2-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	2-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	2-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	3-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	3-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	3-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	3-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	4-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	4-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	4-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	4-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	5-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	5-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	5-P	1545	PRO	CA-C-N	14.91	141.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	6-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	6-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	6-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	6-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	7-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	7-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	7-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	7-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	8-F	458	ASP	CA-C-N	-14.91	93.07	121.54
4	8-F	458	ASP	C-N-CA	-14.91	93.07	121.54
3	8-P	1545	PRO	CA-C-N	14.91	141.75	120.28
3	8-P	1545	PRO	C-N-CA	14.91	141.75	120.28
4	1-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	1-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	1-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	1-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	2-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	2-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	2-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	2-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	3-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	3-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	3-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	3-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	4-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	4-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	4-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	4-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	5-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	5-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	5-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	5-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	6-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	6-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	6-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	6-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	7-R	458	ASP	CA-C-N	-14.90	93.08	121.54
4	7-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	7-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	7-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	8-R	458	ASP	CA-C-N	-14.90	93.08	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	458	ASP	C-N-CA	-14.90	93.08	121.54
3	8-V	1545	PRO	CA-C-N	14.90	141.74	120.28
3	8-V	1545	PRO	C-N-CA	14.90	141.74	120.28
4	1-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	1-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	2-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	2-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	3-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	3-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	4-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	4-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	5-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	5-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	6-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	6-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	7-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	7-L	458	ASP	C-N-CA	-14.88	93.13	121.54
4	8-L	458	ASP	CA-C-N	-14.88	93.13	121.54
4	8-L	458	ASP	C-N-CA	-14.88	93.13	121.54
3	1-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	1-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	1-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	1-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	2-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	2-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	2-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	2-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	3-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	3-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	3-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	3-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	4-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	4-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	4-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	4-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	5-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	5-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	5-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	5-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	6-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	6-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	6-X	458	ASP	CA-C-N	-14.87	93.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	7-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	7-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	7-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	7-X	458	ASP	C-N-CA	-14.87	93.14	121.54
3	8-J	1545	PRO	CA-C-N	14.87	141.70	120.28
3	8-J	1545	PRO	C-N-CA	14.87	141.70	120.28
4	8-X	458	ASP	CA-C-N	-14.87	93.14	121.54
4	8-X	458	ASP	C-N-CA	-14.87	93.14	121.54
5	1-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	2-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	3-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	4-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	5-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	6-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	7-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	8-G	361	ARG	N-CA-C	-14.87	95.16	111.36
5	1-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	2-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	3-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	4-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	5-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	6-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	7-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	8-Y	361	ARG	N-CA-C	-14.86	95.16	111.36
5	1-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	2-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	3-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	4-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	5-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	6-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	7-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	8-S	361	ARG	N-CA-C	-14.86	95.17	111.36
5	1-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	2-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	3-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	4-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	5-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	6-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	7-M	361	ARG	N-CA-C	-14.85	95.17	111.36
5	8-M	361	ARG	N-CA-C	-14.85	95.17	111.36
4	1-L	457	ALA	N-CA-CB	-14.85	85.40	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	3-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	4-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	5-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	6-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	7-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	8-L	457	ALA	N-CA-CB	-14.85	85.40	110.49
4	1-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	2-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	3-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	4-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	5-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	6-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	7-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	8-F	457	ALA	N-CA-CB	-14.84	85.40	110.49
4	1-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	2-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	3-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	4-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	5-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	6-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	7-R	401	TYR	O-C-N	-14.84	102.85	122.59
4	8-R	401	TYR	O-C-N	-14.84	102.85	122.59
5	1-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	1-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	2-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	2-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	3-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	3-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	4-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	4-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	5-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	5-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	6-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	6-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	7-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	7-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	8-M	347	ARG	CA-C-N	-14.84	99.35	120.42
5	8-M	347	ARG	C-N-CA	-14.84	99.35	120.42
5	1-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	1-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	2-S	347	ARG	CA-C-N	-14.83	99.36	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	3-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	3-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	4-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	4-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	5-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	5-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	6-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	6-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	7-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	7-S	347	ARG	C-N-CA	-14.83	99.36	120.42
5	8-S	347	ARG	CA-C-N	-14.83	99.36	120.42
5	8-S	347	ARG	C-N-CA	-14.83	99.36	120.42
4	1-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	2-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	3-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	4-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	5-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	6-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	7-L	401	TYR	O-C-N	-14.82	102.87	122.59
4	8-L	401	TYR	O-C-N	-14.82	102.87	122.59
5	1-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	1-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	1-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
5	2-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	2-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	2-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
5	3-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	3-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	3-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
5	4-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	4-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	4-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
5	5-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	5-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	5-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
5	6-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	6-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	6-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
5	7-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	7-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	7-R	457	ALA	N-CA-CB	-14.82	85.44	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	347	ARG	CA-C-N	-14.82	99.38	120.42
5	8-G	347	ARG	C-N-CA	-14.82	99.38	120.42
4	8-R	457	ALA	N-CA-CB	-14.82	85.44	110.49
6	1-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	1-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	1-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	2-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	2-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	2-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	3-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	3-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	3-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	4-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	4-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	4-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	5-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	5-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	5-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	6-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	6-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	6-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	7-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	7-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	7-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	8-N	373	THR	N-CA-CB	14.82	131.46	109.98
5	8-Y	347	ARG	CA-C-N	-14.82	99.38	120.42
5	8-Y	347	ARG	C-N-CA	-14.82	99.38	120.42
6	1-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	2-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	3-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	4-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	5-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	6-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	7-H	373	THR	N-CA-CB	14.81	131.45	109.98
6	8-H	373	THR	N-CA-CB	14.81	131.45	109.98
4	1-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	2-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	3-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	4-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	5-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	6-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	7-X	457	ALA	N-CA-CB	-14.81	85.47	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	457	ALA	N-CA-CB	-14.81	85.47	110.49
4	1-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	1-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	2-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	2-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	3-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	3-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	4-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	4-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	5-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	5-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	6-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	6-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	7-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	7-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	8-F	401	TYR	O-C-N	-14.80	102.91	122.59
4	8-X	401	TYR	O-C-N	-14.80	102.91	122.59
4	1-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	1-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	2-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	2-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	3-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	3-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	4-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	4-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	5-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	5-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	6-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	6-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	7-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	7-Z	373	THR	N-CA-CB	14.79	131.42	109.98
4	8-L	402	ALA	CA-C-O	14.79	141.66	120.51
6	8-Z	373	THR	N-CA-CB	14.79	131.42	109.98
3	1-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	1-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	2-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	2-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	3-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	3-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	4-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	4-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	5-J	1484	ASP	O-C-N	14.78	137.78	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	6-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	6-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	7-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	7-T	373	THR	N-CA-CB	14.78	131.41	109.98
3	8-J	1484	ASP	O-C-N	14.78	137.78	122.12
6	8-T	373	THR	N-CA-CB	14.78	131.41	109.98
4	1-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	2-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	3-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	4-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	5-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	6-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	7-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	8-R	402	ALA	CA-C-O	14.77	141.63	120.51
4	1-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	1-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	2-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	2-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	3-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	3-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	4-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	4-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	5-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	5-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	6-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	6-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	7-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	7-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	8-F	402	ALA	CA-C-O	14.76	141.62	120.51
3	8-V	1484	ASP	O-C-N	14.76	137.76	122.12
4	1-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	2-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	3-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	4-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	5-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	6-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	7-X	402	ALA	CA-C-O	14.75	141.60	120.51
4	8-X	402	ALA	CA-C-O	14.75	141.60	120.51
3	1-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	2-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	3-D	1484	ASP	O-C-N	14.75	137.75	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	5-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	6-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	7-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	8-D	1484	ASP	O-C-N	14.75	137.75	122.12
3	1-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	2-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	3-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	4-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	5-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	6-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	7-P	1484	ASP	O-C-N	14.74	137.75	122.12
3	8-P	1484	ASP	O-C-N	14.74	137.75	122.12
5	1-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	2-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	3-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	4-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	5-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	6-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	7-M	327	ARG	N-CA-CB	14.64	135.24	110.49
5	8-M	327	ARG	N-CA-CB	14.64	135.24	110.49
3	1-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	1-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	2-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	2-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	3-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	3-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	4-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	4-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	5-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	5-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	6-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	6-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	7-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	7-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
3	8-P	1512	TRP	CA-C-O	-14.64	104.90	120.42
5	8-Y	327	ARG	N-CA-CB	14.64	135.23	110.49
5	1-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	2-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	3-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	4-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	5-G	327	ARG	N-CA-CB	14.64	135.22	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	7-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	8-G	327	ARG	N-CA-CB	14.64	135.22	110.49
5	1-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	2-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	3-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	4-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	5-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	6-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	7-S	327	ARG	N-CA-CB	14.63	135.21	110.49
5	8-S	327	ARG	N-CA-CB	14.63	135.21	110.49
3	1-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	2-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	3-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	4-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	5-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	6-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	7-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
3	8-V	1512	TRP	CA-C-O	-14.62	104.92	120.42
4	1-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	2-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	3-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	4-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	5-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	6-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	7-L	460	LEU	N-CA-CB	14.62	133.23	110.14
4	8-L	460	LEU	N-CA-CB	14.62	133.23	110.14
3	1-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	2-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	3-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	4-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	5-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	6-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	7-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	8-J	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	1-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	2-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	3-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	4-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	5-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	6-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
3	7-D	1512	TRP	CA-C-O	-14.61	104.93	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1512	TRP	CA-C-O	-14.61	104.93	120.42
4	1-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	2-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	3-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	4-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	5-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	6-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	7-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	8-X	460	LEU	N-CA-CB	14.61	133.22	110.14
4	1-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	2-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	3-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	4-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	5-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	6-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	7-R	460	LEU	N-CA-CB	14.60	133.20	110.14
4	8-R	460	LEU	N-CA-CB	14.60	133.20	110.14
3	1-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	1-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	2-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	2-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	3-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	3-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	4-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	4-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	5-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	5-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	6-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	6-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	7-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	7-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	8-J	1511	GLN	CA-C-N	-14.59	99.58	120.29
3	8-J	1511	GLN	C-N-CA	-14.59	99.58	120.29
3	1-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	1-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	1-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	2-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	2-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	2-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	3-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	3-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	3-Z	341	SER	N-CA-CB	14.58	131.67	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	4-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	4-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	5-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	5-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	5-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	6-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	6-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	6-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	7-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	7-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	7-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	8-V	1511	GLN	CA-C-N	-14.58	99.58	120.29
3	8-V	1511	GLN	C-N-CA	-14.58	99.58	120.29
6	8-Z	341	SER	N-CA-CB	14.58	131.67	109.94
3	1-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	1-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	2-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	2-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	3-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	3-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	4-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	4-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	5-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	5-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	6-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	6-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	7-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	7-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	8-D	1511	GLN	CA-C-N	-14.58	99.59	120.29
3	8-D	1511	GLN	C-N-CA	-14.58	99.59	120.29
4	1-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	2-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	3-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	4-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	5-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	6-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	7-F	460	LEU	N-CA-CB	14.58	133.17	110.14
4	8-F	460	LEU	N-CA-CB	14.58	133.17	110.14
6	1-N	341	SER	N-CA-CB	14.57	131.65	109.94
6	2-N	341	SER	N-CA-CB	14.57	131.65	109.94
6	3-N	341	SER	N-CA-CB	14.57	131.65	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	341	SER	N-CA-CB	14.57	131.65	109.94
6	5-N	341	SER	N-CA-CB	14.57	131.65	109.94
6	6-N	341	SER	N-CA-CB	14.57	131.65	109.94
6	7-N	341	SER	N-CA-CB	14.57	131.65	109.94
6	8-N	341	SER	N-CA-CB	14.57	131.65	109.94
3	1-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	1-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	2-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	2-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	3-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	3-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	4-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	4-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	5-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	5-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	6-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	6-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	7-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	7-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
3	8-P	1511	GLN	CA-C-N	-14.56	99.61	120.29
3	8-P	1511	GLN	C-N-CA	-14.56	99.61	120.29
6	1-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	2-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	3-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	4-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	5-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	6-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	7-H	341	SER	N-CA-CB	14.56	131.63	109.94
6	8-H	341	SER	N-CA-CB	14.56	131.63	109.94
4	1-X	423	ALA	O-C-N	14.55	138.06	121.32
4	2-X	423	ALA	O-C-N	14.55	138.06	121.32
4	3-X	423	ALA	O-C-N	14.55	138.06	121.32
4	4-X	423	ALA	O-C-N	14.55	138.06	121.32
4	5-X	423	ALA	O-C-N	14.55	138.06	121.32
4	6-X	423	ALA	O-C-N	14.55	138.06	121.32
4	7-X	423	ALA	O-C-N	14.55	138.06	121.32
4	8-X	423	ALA	O-C-N	14.55	138.06	121.32
6	1-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	2-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	3-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	4-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	5-T	341	SER	N-CA-CB	14.55	131.62	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	7-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	8-T	341	SER	N-CA-CB	14.55	131.62	109.94
6	1-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	1-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	2-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	2-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	3-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	3-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	4-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	4-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	5-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	5-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	6-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	6-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	7-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	7-T	387	LYS	C-N-CA	-14.53	100.68	120.44
6	8-T	387	LYS	CA-C-N	-14.53	100.68	120.44
6	8-T	387	LYS	C-N-CA	-14.53	100.68	120.44
4	1-L	423	ALA	O-C-N	14.52	138.01	121.32
4	2-L	423	ALA	O-C-N	14.52	138.01	121.32
4	3-L	423	ALA	O-C-N	14.52	138.01	121.32
4	4-L	423	ALA	O-C-N	14.52	138.01	121.32
4	5-L	423	ALA	O-C-N	14.52	138.01	121.32
4	6-L	423	ALA	O-C-N	14.52	138.01	121.32
4	7-L	423	ALA	O-C-N	14.52	138.01	121.32
4	8-L	423	ALA	O-C-N	14.52	138.01	121.32
6	1-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	1-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	2-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	2-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	3-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	3-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	4-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	4-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	5-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	5-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	6-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	6-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	7-H	387	LYS	CA-C-N	-14.51	100.71	120.44
6	7-H	387	LYS	C-N-CA	-14.51	100.71	120.44
6	8-H	387	LYS	CA-C-N	-14.51	100.71	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	387	LYS	C-N-CA	-14.51	100.71	120.44
4	1-R	423	ALA	O-C-N	14.51	138.00	121.32
4	2-R	423	ALA	O-C-N	14.51	138.00	121.32
4	3-R	423	ALA	O-C-N	14.51	138.00	121.32
4	4-R	423	ALA	O-C-N	14.51	138.00	121.32
4	5-R	423	ALA	O-C-N	14.51	138.00	121.32
4	6-R	423	ALA	O-C-N	14.51	138.00	121.32
4	7-R	423	ALA	O-C-N	14.51	138.00	121.32
4	8-R	423	ALA	O-C-N	14.51	138.00	121.32
6	1-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	1-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	2-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	2-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	3-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	3-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	4-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	4-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	5-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	5-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	6-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	6-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	7-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	7-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	8-N	387	LYS	CA-C-N	-14.49	100.73	120.44
6	8-N	387	LYS	C-N-CA	-14.49	100.73	120.44
6	1-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	1-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	2-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	2-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	3-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	3-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	4-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	4-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	5-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	5-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	6-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	6-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	7-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	7-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
6	8-Z	387	LYS	CA-C-N	-14.49	100.73	120.44
6	8-Z	387	LYS	C-N-CA	-14.49	100.73	120.44
4	1-F	423	ALA	O-C-N	14.49	137.98	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	423	ALA	O-C-N	14.49	137.98	121.32
4	3-F	423	ALA	O-C-N	14.49	137.98	121.32
4	4-F	423	ALA	O-C-N	14.49	137.98	121.32
4	5-F	423	ALA	O-C-N	14.49	137.98	121.32
4	6-F	423	ALA	O-C-N	14.49	137.98	121.32
4	7-F	423	ALA	O-C-N	14.49	137.98	121.32
4	8-F	423	ALA	O-C-N	14.49	137.98	121.32
5	1-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	2-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	3-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	4-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	5-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	6-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	7-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	8-G	330	LYS	N-CA-CB	14.47	135.62	110.44
5	1-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	2-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	3-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	4-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	5-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	6-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	7-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	8-S	330	LYS	N-CA-CB	14.47	135.62	110.44
5	1-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	2-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	3-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	4-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	5-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	6-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	7-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	8-Y	330	LYS	N-CA-CB	14.47	135.61	110.44
5	1-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	2-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	3-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	4-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	5-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	6-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	7-M	330	LYS	N-CA-CB	14.44	135.56	110.44
5	8-M	330	LYS	N-CA-CB	14.44	135.56	110.44
4	1-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	2-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	3-L	419	GLY	N-CA-C	-14.43	97.42	115.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	5-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	6-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	7-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	8-L	419	GLY	N-CA-C	-14.43	97.42	115.31
4	1-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	2-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	3-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	4-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	5-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	6-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	7-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	8-X	419	GLY	N-CA-C	-14.41	97.44	115.31
4	1-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	1-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	1-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	2-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	2-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	2-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	3-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	3-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	3-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	4-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	4-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	4-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	5-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	5-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	5-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	6-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	6-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	6-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	7-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	7-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	7-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	8-L	431	LEU	CA-C-N	-14.41	99.60	122.65
4	8-L	431	LEU	C-N-CA	-14.41	99.60	122.65
4	8-R	419	GLY	N-CA-C	-14.41	97.45	115.31
4	1-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	1-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	1-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	1-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	2-F	431	LEU	CA-C-N	-14.40	99.61	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	2-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	2-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	3-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	3-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	3-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	3-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	4-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	4-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	4-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	4-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	5-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	5-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	5-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	5-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	6-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	6-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	6-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	6-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	7-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	7-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	7-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	7-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	8-F	431	LEU	CA-C-N	-14.40	99.61	122.65
4	8-F	431	LEU	C-N-CA	-14.40	99.61	122.65
4	8-R	431	LEU	CA-C-N	-14.40	99.61	122.65
4	8-R	431	LEU	C-N-CA	-14.40	99.61	122.65
4	1-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	1-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	2-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	2-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	3-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	3-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	4-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	4-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	5-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	5-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	6-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	6-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	7-F	419	GLY	N-CA-C	-14.40	97.46	115.31
4	7-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	8-F	419	GLY	N-CA-C	-14.40	97.46	115.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	443	HIS	CA-C-O	14.40	141.10	120.51
4	1-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	1-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	2-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	2-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	3-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	3-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	4-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	4-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	5-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	5-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	6-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	6-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	7-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	7-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	8-X	431	LEU	CA-C-N	-14.39	99.62	122.65
4	8-X	431	LEU	C-N-CA	-14.39	99.62	122.65
4	1-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	1-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	2-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	2-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	3-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	3-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	4-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	4-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	5-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	5-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	6-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	6-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	7-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	7-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	8-L	443	HIS	CA-C-O	14.38	141.07	120.51
4	8-R	443	HIS	CA-C-O	14.38	141.07	120.51
4	1-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	2-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	3-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	4-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	5-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	6-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	7-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	8-F	443	HIS	CA-C-O	14.37	141.06	120.51
4	1-F	402	ALA	CB-CA-C	-14.36	81.85	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	3-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	4-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	5-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	6-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	7-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	8-F	402	ALA	CB-CA-C	-14.36	81.85	110.42
4	1-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	2-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	3-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	4-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	5-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	6-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	7-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	8-X	402	ALA	CB-CA-C	-14.35	81.86	110.42
4	1-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	2-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	3-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	4-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	5-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	6-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	7-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	8-L	402	ALA	CB-CA-C	-14.35	81.87	110.42
4	1-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	2-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	3-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	4-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	5-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	6-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	7-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
4	8-R	402	ALA	CB-CA-C	-14.34	81.88	110.42
3	1-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	2-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	3-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	4-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	5-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	6-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	7-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	8-D	1510	GLN	N-CA-C	14.34	132.69	112.04
3	1-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	2-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	3-J	1510	GLN	N-CA-C	14.34	132.68	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	5-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	6-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	7-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	8-J	1510	GLN	N-CA-C	14.34	132.68	112.04
3	1-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	2-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	3-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	4-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	5-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	6-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	7-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	8-P	1510	GLN	N-CA-C	14.33	132.67	112.04
3	1-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	2-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	3-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	4-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	5-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	6-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	7-V	1510	GLN	N-CA-C	14.32	132.66	112.04
3	8-V	1510	GLN	N-CA-C	14.32	132.66	112.04
4	1-R	399	SER	CA-C-O	14.29	140.94	120.51
4	1-X	399	SER	CA-C-O	14.29	140.94	120.51
4	2-R	399	SER	CA-C-O	14.29	140.94	120.51
4	2-X	399	SER	CA-C-O	14.29	140.94	120.51
4	3-R	399	SER	CA-C-O	14.29	140.94	120.51
4	3-X	399	SER	CA-C-O	14.29	140.94	120.51
4	4-R	399	SER	CA-C-O	14.29	140.94	120.51
4	4-X	399	SER	CA-C-O	14.29	140.94	120.51
4	5-R	399	SER	CA-C-O	14.29	140.94	120.51
4	5-X	399	SER	CA-C-O	14.29	140.94	120.51
4	6-R	399	SER	CA-C-O	14.29	140.94	120.51
4	6-X	399	SER	CA-C-O	14.29	140.94	120.51
4	7-R	399	SER	CA-C-O	14.29	140.94	120.51
4	7-X	399	SER	CA-C-O	14.29	140.94	120.51
4	8-R	399	SER	CA-C-O	14.29	140.94	120.51
4	8-X	399	SER	CA-C-O	14.29	140.94	120.51
4	1-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	2-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	3-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	4-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	5-L	472	GLU	N-CA-C	-14.28	95.80	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	7-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	8-L	472	GLU	N-CA-C	-14.28	95.80	111.36
4	1-F	399	SER	CA-C-O	14.27	140.92	120.51
4	2-F	399	SER	CA-C-O	14.27	140.92	120.51
4	3-F	399	SER	CA-C-O	14.27	140.92	120.51
4	4-F	399	SER	CA-C-O	14.27	140.92	120.51
4	5-F	399	SER	CA-C-O	14.27	140.92	120.51
4	6-F	399	SER	CA-C-O	14.27	140.92	120.51
4	7-F	399	SER	CA-C-O	14.27	140.92	120.51
4	8-F	399	SER	CA-C-O	14.27	140.92	120.51
4	1-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	2-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	3-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	4-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	5-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	6-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	7-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	8-X	472	GLU	N-CA-C	-14.27	95.81	111.36
4	1-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	2-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	3-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	4-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	5-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	6-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	7-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	8-R	472	GLU	N-CA-C	-14.26	95.82	111.36
4	1-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	1-L	399	SER	CA-C-O	14.24	140.88	120.51
4	2-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	2-L	399	SER	CA-C-O	14.24	140.88	120.51
4	3-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	3-L	399	SER	CA-C-O	14.24	140.88	120.51
4	4-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	4-L	399	SER	CA-C-O	14.24	140.88	120.51
4	5-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	5-L	399	SER	CA-C-O	14.24	140.88	120.51
4	6-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	6-L	399	SER	CA-C-O	14.24	140.88	120.51
4	7-F	472	GLU	N-CA-C	-14.24	95.83	111.36
4	7-L	399	SER	CA-C-O	14.24	140.88	120.51
4	8-F	472	GLU	N-CA-C	-14.24	95.83	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	399	SER	CA-C-O	14.24	140.88	120.51
4	1-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	2-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	3-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	4-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	5-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	6-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	7-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	8-X	400	GLY	CA-C-O	-14.20	95.86	120.57
4	1-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	2-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	3-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	4-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	5-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	6-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	7-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	8-R	400	GLY	CA-C-O	-14.20	95.86	120.57
4	1-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	2-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	3-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	4-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	5-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	6-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	7-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	8-L	400	GLY	CA-C-O	-14.20	95.87	120.57
4	1-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	2-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	3-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	4-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	5-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	6-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	7-F	400	GLY	CA-C-O	-14.19	95.88	120.57
4	8-F	400	GLY	CA-C-O	-14.19	95.88	120.57
2	1-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	2-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	3-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	4-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	5-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	6-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	7-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	8-O	481	ARG	N-CA-C	14.14	129.48	111.24
2	1-U	481	ARG	N-CA-C	14.13	129.47	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	3-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	4-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	5-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	6-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	7-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	8-U	481	ARG	N-CA-C	14.13	129.47	111.24
2	1-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	1-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	2-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	2-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	3-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	3-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	4-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	4-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	5-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	5-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	6-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	6-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	7-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	7-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	8-C	481	ARG	N-CA-C	14.12	129.46	111.24
2	8-I	481	ARG	N-CA-C	14.12	129.46	111.24
2	1-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	2-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	3-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	4-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	5-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	6-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	7-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	8-O	15	GLN	N-CA-C	-14.05	95.53	111.82
2	1-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	2-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	3-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	4-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	5-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	6-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	7-I	15	GLN	N-CA-C	-14.04	95.53	111.82
2	8-I	15	GLN	N-CA-C	-14.04	95.53	111.82
3	1-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	1-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	2-V	1517	SER	CA-C-N	-14.04	101.27	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	3-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	3-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	4-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	4-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	5-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	5-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	6-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	6-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	7-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	7-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	8-V	1517	SER	CA-C-N	-14.04	101.27	120.79
3	8-V	1517	SER	C-N-CA	-14.04	101.27	120.79
3	1-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	1-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	1-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	2-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	2-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	2-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	3-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	3-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	3-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	4-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	4-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	4-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	5-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	5-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	5-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	6-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	6-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	6-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	7-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	7-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	7-U	15	GLN	N-CA-C	-14.03	95.55	111.82
3	8-D	1517	SER	CA-C-N	-14.03	101.29	120.79
3	8-D	1517	SER	C-N-CA	-14.03	101.29	120.79
2	8-U	15	GLN	N-CA-C	-14.03	95.55	111.82
2	1-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	1-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
2	2-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	2-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
2	3-C	15	GLN	N-CA-C	-14.02	95.55	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	4-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
2	7-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	7-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
2	8-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	8-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
6	1-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	1-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	1-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	1-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	1-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	2-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	2-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	2-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	2-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	2-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	3-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
2	5-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	5-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
6	3-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	3-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	3-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	3-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	3-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	4-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	4-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	4-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	4-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	4-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
2	6-C	15	GLN	N-CA-C	-14.02	95.55	111.82
6	6-N	405	ASP	CB-CA-C	-14.02	89.36	110.96
6	5-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	5-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	5-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	5-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	5-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	6-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	6-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	6-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	6-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	6-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	7-H	405	ASP	CB-CA-C	-14.02	89.37	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	7-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	7-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	7-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	8-H	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	8-J	1517	SER	CA-C-N	-14.02	101.30	120.79
3	8-J	1517	SER	C-N-CA	-14.02	101.30	120.79
6	8-T	405	ASP	CB-CA-C	-14.02	89.37	110.96
6	8-Z	405	ASP	CB-CA-C	-14.02	89.37	110.96
3	1-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	1-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	2-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	2-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	3-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	3-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	4-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	4-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	5-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	5-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	6-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	6-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	7-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	7-P	1517	SER	C-N-CA	-14.02	101.30	120.79
3	8-P	1517	SER	CA-C-N	-14.02	101.30	120.79
3	8-P	1517	SER	C-N-CA	-14.02	101.30	120.79
6	1-T	410	LEU	O-C-N	14.00	141.19	122.43
6	2-T	410	LEU	O-C-N	14.00	141.19	122.43
6	3-T	410	LEU	O-C-N	14.00	141.19	122.43
6	4-T	410	LEU	O-C-N	14.00	141.19	122.43
6	5-T	410	LEU	O-C-N	14.00	141.19	122.43
6	6-T	410	LEU	O-C-N	14.00	141.19	122.43
6	7-T	410	LEU	O-C-N	14.00	141.19	122.43
6	8-T	410	LEU	O-C-N	14.00	141.19	122.43
6	1-N	410	LEU	O-C-N	13.96	141.14	122.43
6	2-N	410	LEU	O-C-N	13.96	141.14	122.43
6	3-N	410	LEU	O-C-N	13.96	141.14	122.43
6	4-N	410	LEU	O-C-N	13.96	141.14	122.43
6	5-N	410	LEU	O-C-N	13.96	141.14	122.43
6	6-N	410	LEU	O-C-N	13.96	141.14	122.43
6	7-N	410	LEU	O-C-N	13.96	141.14	122.43
6	8-N	410	LEU	O-C-N	13.96	141.14	122.43
6	1-H	410	LEU	O-C-N	13.96	141.14	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	410	LEU	O-C-N	13.96	141.14	122.43
6	3-H	410	LEU	O-C-N	13.96	141.14	122.43
6	4-H	410	LEU	O-C-N	13.96	141.14	122.43
6	5-H	410	LEU	O-C-N	13.96	141.14	122.43
6	6-H	410	LEU	O-C-N	13.96	141.14	122.43
6	7-H	410	LEU	O-C-N	13.96	141.14	122.43
6	8-H	410	LEU	O-C-N	13.96	141.14	122.43
6	1-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	2-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	3-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	4-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	5-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	6-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	7-Z	410	LEU	O-C-N	13.94	141.10	122.43
6	8-Z	410	LEU	O-C-N	13.94	141.10	122.43
4	1-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	2-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	3-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	4-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	5-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	6-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	7-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	8-F	452	ARG	N-CA-CB	13.93	134.04	110.49
4	1-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	2-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	3-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	4-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	5-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	6-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	7-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	8-L	452	ARG	N-CA-CB	13.93	134.03	110.49
4	1-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	2-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	3-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	4-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	5-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	6-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	7-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	8-X	452	ARG	N-CA-CB	13.91	134.00	110.49
4	1-R	452	ARG	N-CA-CB	13.91	133.99	110.49
4	2-R	452	ARG	N-CA-CB	13.91	133.99	110.49
4	3-R	452	ARG	N-CA-CB	13.91	133.99	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	452	ARG	N-CA-CB	13.91	133.99	110.49
4	5-R	452	ARG	N-CA-CB	13.91	133.99	110.49
4	6-R	452	ARG	N-CA-CB	13.91	133.99	110.49
4	7-R	452	ARG	N-CA-CB	13.91	133.99	110.49
4	8-R	452	ARG	N-CA-CB	13.91	133.99	110.49
5	1-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	2-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	3-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	4-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	5-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	6-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	7-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	8-M	264	GLU	N-CA-C	-13.79	96.25	111.28
5	1-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	1-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	2-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	2-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	3-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	3-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	4-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	4-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	5-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	5-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	6-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	6-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	7-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	7-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
5	8-S	264	GLU	N-CA-C	-13.79	96.25	111.28
5	8-Y	264	GLU	N-CA-C	-13.79	96.25	111.28
4	1-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	2-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	3-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	4-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	5-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	6-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	7-X	343	MET	N-CA-CB	13.78	130.56	110.16
4	8-X	343	MET	N-CA-CB	13.78	130.56	110.16
5	1-G	264	GLU	N-CA-C	-13.77	96.27	111.28
5	2-G	264	GLU	N-CA-C	-13.77	96.27	111.28
5	3-G	264	GLU	N-CA-C	-13.77	96.27	111.28
5	4-G	264	GLU	N-CA-C	-13.77	96.27	111.28
5	5-G	264	GLU	N-CA-C	-13.77	96.27	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	264	GLU	N-CA-C	-13.77	96.27	111.28
5	7-G	264	GLU	N-CA-C	-13.77	96.27	111.28
5	8-G	264	GLU	N-CA-C	-13.77	96.27	111.28
4	1-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	2-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	3-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	4-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	5-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	6-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	7-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	8-L	343	MET	N-CA-CB	13.77	130.53	110.16
4	1-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	2-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	3-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	4-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	5-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	6-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	7-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	8-R	343	MET	N-CA-CB	13.75	130.52	110.16
4	1-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	2-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	3-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	4-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	5-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	6-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	7-F	343	MET	N-CA-CB	13.74	130.50	110.16
4	8-F	343	MET	N-CA-CB	13.74	130.50	110.16
3	1-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	1-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	2-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	2-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	3-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	3-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	4-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	4-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	5-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	5-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	6-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	6-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	7-D	1520	GLY	CA-C-N	-13.73	100.79	120.29
3	7-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
3	8-D	1520	GLY	CA-C-N	-13.73	100.79	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1520	GLY	C-N-CA	-13.73	100.79	120.29
4	1-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	2-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	3-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	4-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	5-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	6-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	7-L	486	GLU	N-CA-CB	13.72	130.43	110.13
4	8-L	486	GLU	N-CA-CB	13.72	130.43	110.13
3	1-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	1-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	2-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	2-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	3-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	3-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	4-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	4-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	5-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	5-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	6-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	6-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	7-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	7-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
3	8-P	1520	GLY	CA-C-N	-13.72	100.81	120.29
3	8-P	1520	GLY	C-N-CA	-13.72	100.81	120.29
4	1-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	2-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	3-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	4-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	5-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	6-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	7-X	486	GLU	N-CA-CB	13.71	130.42	110.13
4	8-X	486	GLU	N-CA-CB	13.71	130.42	110.13
3	1-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	1-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	2-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	2-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	3-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	3-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	4-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	4-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	5-V	1520	GLY	CA-C-N	-13.70	100.83	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	6-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	6-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	7-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	7-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
3	8-V	1520	GLY	CA-C-N	-13.70	100.83	120.29
3	8-V	1520	GLY	C-N-CA	-13.70	100.83	120.29
4	1-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	1-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	1-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	2-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	2-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	2-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	3-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	3-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	3-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	4-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	4-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	4-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	5-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	5-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	5-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	6-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	6-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	6-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	7-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	7-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	7-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	8-R	486	GLU	N-CA-CB	13.70	130.41	110.13
6	8-T	493	ALA	CA-C-N	13.70	147.71	121.54
6	8-T	493	ALA	C-N-CA	13.70	147.71	121.54
4	1-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	1-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	1-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	2-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	2-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	2-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	3-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	3-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	3-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	4-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	4-J	1520	GLY	CA-C-N	-13.69	100.84	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	5-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	5-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	5-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	6-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	6-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	6-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	7-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	7-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	7-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
4	8-F	486	GLU	N-CA-CB	13.69	130.40	110.13
3	8-J	1520	GLY	CA-C-N	-13.69	100.84	120.29
3	8-J	1520	GLY	C-N-CA	-13.69	100.84	120.29
6	1-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	1-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	2-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	2-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	3-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	3-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	4-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	4-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	5-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	5-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	6-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	6-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	7-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	7-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	8-Z	493	ALA	CA-C-N	13.69	147.69	121.54
6	8-Z	493	ALA	C-N-CA	13.69	147.69	121.54
6	1-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	1-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	2-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	2-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	3-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	3-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	4-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	4-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	5-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	5-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	6-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	6-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	7-N	493	ALA	CA-C-N	13.69	147.68	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	8-N	493	ALA	CA-C-N	13.69	147.68	121.54
6	8-N	493	ALA	C-N-CA	13.69	147.68	121.54
6	1-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	1-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	1-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	2-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	2-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	2-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	3-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	3-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	3-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	4-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	4-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	4-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	5-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	5-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	5-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	6-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	6-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	6-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	7-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	7-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	7-L	397	ARG	O-C-N	-13.66	106.58	122.15
6	8-H	493	ALA	CA-C-N	13.66	147.63	121.54
6	8-H	493	ALA	C-N-CA	13.66	147.63	121.54
4	8-L	397	ARG	O-C-N	-13.66	106.58	122.15
5	1-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	2-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	3-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	4-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	5-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	6-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	7-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
5	8-Y	379	HIS	CA-C-O	-13.64	101.00	120.51
4	1-F	397	ARG	O-C-N	-13.64	106.60	122.15
4	2-F	397	ARG	O-C-N	-13.64	106.60	122.15
4	3-F	397	ARG	O-C-N	-13.64	106.60	122.15
4	4-F	397	ARG	O-C-N	-13.64	106.60	122.15
4	5-F	397	ARG	O-C-N	-13.64	106.60	122.15
4	6-F	397	ARG	O-C-N	-13.64	106.60	122.15
4	7-F	397	ARG	O-C-N	-13.64	106.60	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	397	ARG	O-C-N	-13.64	106.60	122.15
5	1-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	2-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	3-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	4-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	5-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	6-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	7-M	379	HIS	CA-C-O	-13.63	101.02	120.51
5	8-M	379	HIS	CA-C-O	-13.63	101.02	120.51
4	1-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	2-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	3-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	4-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	5-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	6-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	7-R	397	ARG	O-C-N	-13.63	106.61	122.15
4	8-R	397	ARG	O-C-N	-13.63	106.61	122.15
5	1-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	1-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	2-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	2-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	3-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	3-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	4-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	4-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	5-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	5-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	6-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	6-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	7-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	7-S	379	HIS	CA-C-O	-13.62	101.03	120.51
5	8-G	379	HIS	CA-C-O	-13.62	101.03	120.51
5	8-S	379	HIS	CA-C-O	-13.62	101.03	120.51
4	1-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	1-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	2-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	2-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	3-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	3-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	4-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	4-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	5-X	397	ARG	O-C-N	-13.62	106.63	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	6-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	6-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	7-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	7-Z	471	LEU	CA-C-O	13.62	134.85	120.42
4	8-X	397	ARG	O-C-N	-13.62	106.63	122.15
6	8-Z	471	LEU	CA-C-O	13.62	134.85	120.42
6	1-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	2-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	3-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	4-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	5-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	6-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	7-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	8-H	471	LEU	CA-C-O	13.60	134.84	120.42
6	1-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	2-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	3-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	4-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	5-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	6-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	7-N	471	LEU	CA-C-O	13.60	134.83	120.42
6	8-N	471	LEU	CA-C-O	13.60	134.83	120.42
2	1-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	2-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	3-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	4-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	5-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	6-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	7-O	11	GLN	CB-CA-C	13.55	131.82	110.96
2	8-O	11	GLN	CB-CA-C	13.55	131.82	110.96
6	1-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	2-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	3-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	4-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	5-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	6-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	7-T	471	LEU	CA-C-O	13.54	134.77	120.42
6	8-T	471	LEU	CA-C-O	13.54	134.77	120.42
2	1-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	2-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	3-U	11	GLN	CB-CA-C	13.52	131.78	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	5-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	6-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	7-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	8-U	11	GLN	CB-CA-C	13.52	131.78	110.96
2	1-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	2-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	3-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	4-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	5-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	6-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	7-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	8-C	11	GLN	CB-CA-C	13.51	131.77	110.96
2	1-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	2-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	3-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	4-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	5-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	6-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	7-I	11	GLN	CB-CA-C	13.50	131.76	110.96
2	8-I	11	GLN	CB-CA-C	13.50	131.76	110.96
5	1-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	2-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	3-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	4-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	5-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	6-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	7-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	8-S	328	THR	N-CA-C	-13.50	96.90	114.31
5	1-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	2-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	3-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	4-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	5-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	6-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	7-Y	328	THR	N-CA-C	-13.49	96.91	114.31
5	8-Y	328	THR	N-CA-C	-13.49	96.91	114.31
4	1-X	484	ASP	O-C-N	13.48	135.95	122.07
4	2-X	484	ASP	O-C-N	13.48	135.95	122.07
4	3-X	484	ASP	O-C-N	13.48	135.95	122.07
4	4-X	484	ASP	O-C-N	13.48	135.95	122.07
4	5-X	484	ASP	O-C-N	13.48	135.95	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	484	ASP	O-C-N	13.48	135.95	122.07
4	7-X	484	ASP	O-C-N	13.48	135.95	122.07
4	8-X	484	ASP	O-C-N	13.48	135.95	122.07
5	1-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	2-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	3-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	4-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	5-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	6-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	7-M	328	THR	N-CA-C	-13.48	96.92	114.31
5	8-M	328	THR	N-CA-C	-13.48	96.92	114.31
3	1-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	2-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	3-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	4-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	5-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	6-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	7-V	1448	MET	CA-C-O	-13.47	106.27	120.55
3	8-V	1448	MET	CA-C-O	-13.47	106.27	120.55
5	1-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	1-R	484	ASP	O-C-N	13.47	135.94	122.07
5	2-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	2-R	484	ASP	O-C-N	13.47	135.94	122.07
5	3-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	3-R	484	ASP	O-C-N	13.47	135.94	122.07
5	4-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	4-R	484	ASP	O-C-N	13.47	135.94	122.07
5	5-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	5-R	484	ASP	O-C-N	13.47	135.94	122.07
5	6-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	6-R	484	ASP	O-C-N	13.47	135.94	122.07
5	7-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	7-R	484	ASP	O-C-N	13.47	135.94	122.07
5	8-G	328	THR	N-CA-C	-13.47	96.94	114.31
4	8-R	484	ASP	O-C-N	13.47	135.94	122.07
3	1-J	1448	MET	CA-C-O	-13.46	106.28	120.55
3	2-J	1448	MET	CA-C-O	-13.46	106.28	120.55
3	3-J	1448	MET	CA-C-O	-13.46	106.28	120.55
3	4-J	1448	MET	CA-C-O	-13.46	106.28	120.55
3	5-J	1448	MET	CA-C-O	-13.46	106.28	120.55
3	6-J	1448	MET	CA-C-O	-13.46	106.28	120.55
3	7-J	1448	MET	CA-C-O	-13.46	106.28	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1448	MET	CA-C-O	-13.46	106.28	120.55
4	1-F	484	ASP	O-C-N	13.46	135.93	122.07
4	2-F	484	ASP	O-C-N	13.46	135.93	122.07
4	3-F	484	ASP	O-C-N	13.46	135.93	122.07
4	4-F	484	ASP	O-C-N	13.46	135.93	122.07
4	5-F	484	ASP	O-C-N	13.46	135.93	122.07
4	6-F	484	ASP	O-C-N	13.46	135.93	122.07
4	7-F	484	ASP	O-C-N	13.46	135.93	122.07
4	8-F	484	ASP	O-C-N	13.46	135.93	122.07
3	1-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	2-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	3-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	4-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	5-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	6-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	7-P	1448	MET	CA-C-O	-13.45	106.29	120.55
3	8-P	1448	MET	CA-C-O	-13.45	106.29	120.55
5	1-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	1-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	2-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	2-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	3-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	3-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	4-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	4-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	5-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	5-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	6-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	6-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	7-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	7-S	330	LYS	C-N-CA	13.45	136.90	120.09
5	8-S	330	LYS	CA-C-N	13.45	136.90	120.09
5	8-S	330	LYS	C-N-CA	13.45	136.90	120.09
4	1-F	450	GLU	O-C-N	13.44	140.47	122.59
5	1-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	1-G	330	LYS	C-N-CA	13.44	136.89	120.09
4	2-F	450	GLU	O-C-N	13.44	140.47	122.59
5	2-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	2-G	330	LYS	C-N-CA	13.44	136.89	120.09
4	3-F	450	GLU	O-C-N	13.44	140.47	122.59
5	3-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	3-G	330	LYS	C-N-CA	13.44	136.89	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	450	GLU	O-C-N	13.44	140.47	122.59
5	4-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	4-G	330	LYS	C-N-CA	13.44	136.89	120.09
4	5-F	450	GLU	O-C-N	13.44	140.47	122.59
5	5-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	5-G	330	LYS	C-N-CA	13.44	136.89	120.09
4	6-F	450	GLU	O-C-N	13.44	140.47	122.59
5	6-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	6-G	330	LYS	C-N-CA	13.44	136.89	120.09
4	7-F	450	GLU	O-C-N	13.44	140.47	122.59
5	7-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	7-G	330	LYS	C-N-CA	13.44	136.89	120.09
4	8-F	450	GLU	O-C-N	13.44	140.47	122.59
5	8-G	330	LYS	CA-C-N	13.44	136.89	120.09
5	8-G	330	LYS	C-N-CA	13.44	136.89	120.09
3	1-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	2-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	3-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	4-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	5-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	6-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	7-D	1448	MET	CA-C-O	-13.44	106.31	120.55
3	8-D	1448	MET	CA-C-O	-13.44	106.31	120.55
4	1-L	484	ASP	O-C-N	13.44	135.91	122.07
5	1-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	1-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	2-L	484	ASP	O-C-N	13.44	135.91	122.07
5	2-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	2-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	3-L	484	ASP	O-C-N	13.44	135.91	122.07
5	3-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	3-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	4-L	484	ASP	O-C-N	13.44	135.91	122.07
5	4-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	4-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	5-L	484	ASP	O-C-N	13.44	135.91	122.07
5	5-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	5-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	6-L	484	ASP	O-C-N	13.44	135.91	122.07
5	6-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	6-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	7-L	484	ASP	O-C-N	13.44	135.91	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	7-Y	330	LYS	C-N-CA	13.44	136.88	120.09
4	8-L	484	ASP	O-C-N	13.44	135.91	122.07
5	8-Y	330	LYS	CA-C-N	13.44	136.88	120.09
5	8-Y	330	LYS	C-N-CA	13.44	136.88	120.09
3	1-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	1-R	450	GLU	O-C-N	13.42	140.44	122.59
3	2-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	2-R	450	GLU	O-C-N	13.42	140.44	122.59
3	3-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	3-R	450	GLU	O-C-N	13.42	140.44	122.59
3	4-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	4-R	450	GLU	O-C-N	13.42	140.44	122.59
3	5-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	5-R	450	GLU	O-C-N	13.42	140.44	122.59
3	6-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	6-R	450	GLU	O-C-N	13.42	140.44	122.59
3	7-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	7-R	450	GLU	O-C-N	13.42	140.44	122.59
3	8-P	1488	GLY	CA-C-O	13.42	135.06	120.30
4	8-R	450	GLU	O-C-N	13.42	140.44	122.59
5	1-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	1-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	1-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	1-X	450	GLU	O-C-N	13.42	140.43	122.59
5	2-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	2-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	2-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	2-X	450	GLU	O-C-N	13.42	140.43	122.59
5	3-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	3-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	3-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	3-X	450	GLU	O-C-N	13.42	140.43	122.59
5	4-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	4-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	4-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	4-X	450	GLU	O-C-N	13.42	140.43	122.59
5	5-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	5-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	5-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	5-X	450	GLU	O-C-N	13.42	140.43	122.59
5	6-M	330	LYS	CA-C-N	13.42	136.86	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	6-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	6-X	450	GLU	O-C-N	13.42	140.43	122.59
5	7-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	7-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	7-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	7-X	450	GLU	O-C-N	13.42	140.43	122.59
5	8-M	330	LYS	CA-C-N	13.42	136.86	120.09
5	8-M	330	LYS	C-N-CA	13.42	136.86	120.09
3	8-V	1507	ASP	CA-C-O	-13.42	103.09	119.59
4	8-X	450	GLU	O-C-N	13.42	140.43	122.59
6	1-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	2-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	3-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	4-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	5-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	6-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	7-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
6	8-Z	411	GLU	CA-C-O	-13.41	101.33	120.51
3	1-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	1-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	2-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	2-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	3-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	3-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	4-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	4-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	5-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	5-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	6-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	6-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	7-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	7-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	8-D	1507	ASP	CA-C-O	-13.41	103.10	119.59
3	8-P	1507	ASP	CA-C-O	-13.41	103.10	119.59
6	1-T	411	GLU	CA-C-O	-13.40	101.34	120.51
6	2-T	411	GLU	CA-C-O	-13.40	101.34	120.51
6	3-T	411	GLU	CA-C-O	-13.40	101.34	120.51
6	4-T	411	GLU	CA-C-O	-13.40	101.34	120.51
6	5-T	411	GLU	CA-C-O	-13.40	101.34	120.51
6	6-T	411	GLU	CA-C-O	-13.40	101.34	120.51
6	7-T	411	GLU	CA-C-O	-13.40	101.34	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	411	GLU	CA-C-O	-13.40	101.34	120.51
3	1-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	2-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	3-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	4-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	5-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	6-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	7-D	1488	GLY	CA-C-O	13.40	135.04	120.30
3	8-D	1488	GLY	CA-C-O	13.40	135.04	120.30
4	1-L	450	GLU	O-C-N	13.40	140.41	122.59
4	2-L	450	GLU	O-C-N	13.40	140.41	122.59
4	3-L	450	GLU	O-C-N	13.40	140.41	122.59
4	4-L	450	GLU	O-C-N	13.40	140.41	122.59
4	5-L	450	GLU	O-C-N	13.40	140.41	122.59
4	6-L	450	GLU	O-C-N	13.40	140.41	122.59
4	7-L	450	GLU	O-C-N	13.40	140.41	122.59
4	8-L	450	GLU	O-C-N	13.40	140.41	122.59
6	1-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	2-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	3-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	4-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	5-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	6-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	7-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	8-N	411	GLU	CA-C-O	-13.39	101.36	120.51
6	1-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	2-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	3-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	4-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	5-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	6-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	7-H	411	GLU	CA-C-O	-13.39	101.37	120.51
6	8-H	411	GLU	CA-C-O	-13.39	101.37	120.51
3	1-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	2-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	3-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	4-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	5-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	6-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	7-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	8-V	1488	GLY	CA-C-O	13.38	135.02	120.30
3	1-J	1507	ASP	CA-C-O	-13.37	103.14	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	3-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	4-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	5-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	6-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	7-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	8-J	1507	ASP	CA-C-O	-13.37	103.14	119.59
3	1-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	2-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	3-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	4-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	5-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	6-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	7-J	1488	GLY	CA-C-O	13.36	135.00	120.30
3	8-J	1488	GLY	CA-C-O	13.36	135.00	120.30
5	1-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	2-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	3-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	4-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	5-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	6-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	7-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	8-G	352	GLN	N-CA-C	13.35	125.83	111.28
5	1-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	2-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	3-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	4-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	5-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	6-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	7-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	8-M	352	GLN	N-CA-C	13.33	125.81	111.28
5	1-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	2-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	3-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	4-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	5-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	6-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	7-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	8-S	352	GLN	N-CA-C	13.32	125.80	111.28
5	1-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	2-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	3-Y	352	GLN	N-CA-C	13.32	125.80	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	5-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	6-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	7-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	8-Y	352	GLN	N-CA-C	13.32	125.80	111.28
5	1-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	2-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	3-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	4-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	5-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	6-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	7-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	8-Y	337	HIS	O-C-N	-13.28	108.28	123.42
5	1-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	2-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	3-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	4-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	5-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	6-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	7-M	337	HIS	O-C-N	-13.28	108.28	123.42
5	8-M	337	HIS	O-C-N	-13.28	108.28	123.42
3	1-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	2-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	3-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	4-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	5-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	6-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	7-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	8-D	1484	ASP	CA-C-O	-13.27	106.48	120.55
3	1-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	2-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	3-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	4-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	5-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	6-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	7-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
3	8-V	1484	ASP	CA-C-O	-13.26	106.49	120.55
5	1-G	337	HIS	O-C-N	-13.26	108.31	123.42
5	2-G	337	HIS	O-C-N	-13.26	108.31	123.42
5	3-G	337	HIS	O-C-N	-13.26	108.31	123.42
5	4-G	337	HIS	O-C-N	-13.26	108.31	123.42
5	5-G	337	HIS	O-C-N	-13.26	108.31	123.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	337	HIS	O-C-N	-13.26	108.31	123.42
5	7-G	337	HIS	O-C-N	-13.26	108.31	123.42
5	8-G	337	HIS	O-C-N	-13.26	108.31	123.42
3	1-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	2-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	3-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	4-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	5-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	6-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	7-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
3	8-P	1484	ASP	CA-C-O	-13.24	106.52	120.55
5	1-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	2-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	3-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	4-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	5-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	6-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	7-S	337	HIS	O-C-N	-13.23	108.34	123.42
5	8-S	337	HIS	O-C-N	-13.23	108.34	123.42
3	1-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	2-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	3-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	4-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	5-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	6-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	7-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	8-J	1484	ASP	CA-C-O	-13.21	106.54	120.55
3	1-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	1-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	2-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	2-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	3-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	3-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	4-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	4-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	5-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	5-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	6-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	6-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	7-P	1486	CYS	CA-C-N	-13.15	96.43	121.54
3	7-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
3	8-P	1486	CYS	CA-C-N	-13.15	96.43	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1486	CYS	C-N-CA	-13.15	96.43	121.54
6	1-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	1-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	2-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	2-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	3-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	3-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	4-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	4-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	5-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	5-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	6-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	6-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	7-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	7-T	411	GLU	C-N-CA	13.14	145.85	121.81
6	8-T	411	GLU	CA-C-N	13.14	145.85	121.81
6	8-T	411	GLU	C-N-CA	13.14	145.85	121.81
3	1-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	1-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
3	1-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	1-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
3	2-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	2-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
6	1-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	1-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	2-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	2-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
6	2-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	2-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	3-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	3-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
3	3-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	3-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
3	4-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	4-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
6	3-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	3-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	4-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	4-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
6	4-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	4-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	5-D	1486	CYS	CA-C-N	-13.13	96.45	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
3	5-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	5-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
3	6-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	6-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
6	5-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	5-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	6-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	6-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
6	6-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	6-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	7-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	7-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
3	7-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	7-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
3	8-J	1486	CYS	CA-C-N	-13.14	96.45	121.54
3	8-J	1486	CYS	C-N-CA	-13.14	96.45	121.54
6	7-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	7-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	8-D	1486	CYS	CA-C-N	-13.13	96.45	121.54
3	8-D	1486	CYS	C-N-CA	-13.13	96.45	121.54
6	8-H	411	GLU	CA-C-N	13.13	145.85	121.81
6	8-H	411	GLU	C-N-CA	13.13	145.85	121.81
3	1-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	1-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	2-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	2-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	3-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	3-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	4-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	4-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	5-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	5-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	6-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	6-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	7-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	7-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
3	8-V	1486	CYS	CA-C-N	-13.13	96.46	121.54
3	8-V	1486	CYS	C-N-CA	-13.13	96.46	121.54
4	1-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	1-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	1-N	411	GLU	CA-C-N	13.13	145.84	121.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	1-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	1-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	2-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	2-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	2-N	411	GLU	CA-C-N	13.13	145.84	121.81
6	2-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	2-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	2-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	3-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	3-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	3-N	411	GLU	CA-C-N	13.13	145.84	121.81
6	3-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	3-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	3-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	4-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	4-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	4-N	411	GLU	CA-C-N	13.13	145.84	121.81
6	4-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	4-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	4-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	5-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	5-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	5-N	411	GLU	CA-C-N	13.13	145.84	121.81
6	5-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	5-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	5-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	6-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	6-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	6-N	411	GLU	CA-C-N	13.13	145.84	121.81
6	6-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	6-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	6-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	7-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	7-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	7-N	411	GLU	CA-C-N	13.13	145.84	121.81
6	7-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	7-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	7-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	8-L	427	PHE	CA-C-N	-13.13	101.65	120.29
4	8-L	427	PHE	C-N-CA	-13.13	101.65	120.29
6	8-N	411	GLU	CA-C-N	13.13	145.84	121.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	411	GLU	C-N-CA	13.13	145.84	121.81
6	8-Z	411	GLU	CA-C-N	13.13	145.84	121.81
6	8-Z	411	GLU	C-N-CA	13.13	145.84	121.81
4	1-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	1-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	2-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	2-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	3-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	3-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	4-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	4-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	5-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	5-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	6-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	6-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	7-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	7-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	8-F	427	PHE	CA-C-N	-13.12	101.66	120.29
4	8-F	427	PHE	C-N-CA	-13.12	101.66	120.29
4	1-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	1-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	2-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	2-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	3-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	3-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	4-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	4-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	5-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	5-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	6-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	6-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	7-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	7-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	8-R	427	PHE	CA-C-N	-13.11	101.67	120.29
4	8-R	427	PHE	C-N-CA	-13.11	101.67	120.29
4	1-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	1-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	2-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	2-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	3-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	3-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	4-X	427	PHE	CA-C-N	-13.09	101.70	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	5-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	5-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	6-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	6-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	7-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	7-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	8-X	427	PHE	CA-C-N	-13.09	101.70	120.29
4	8-X	427	PHE	C-N-CA	-13.09	101.70	120.29
4	1-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	2-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	3-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	4-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	5-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	6-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	7-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	8-L	367	THR	N-CA-C	-13.09	96.66	112.89
4	1-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	2-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	3-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	4-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	5-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	6-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	7-X	367	THR	N-CA-C	-13.08	96.67	112.89
4	8-X	367	THR	N-CA-C	-13.08	96.67	112.89
6	1-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	1-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	2-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	2-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	3-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	3-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	4-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	4-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	5-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	5-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	6-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	6-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	7-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	7-N	391	GLN	C-N-CA	13.08	137.80	120.28
6	8-N	391	GLN	CA-C-N	13.08	137.80	120.28
6	8-N	391	GLN	C-N-CA	13.08	137.80	120.28
4	1-F	367	THR	N-CA-C	-13.07	96.68	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	3-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	4-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	5-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	6-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	7-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	8-F	367	THR	N-CA-C	-13.07	96.68	112.89
4	1-L	436	SER	CA-C-O	13.07	136.31	121.02
4	2-L	436	SER	CA-C-O	13.07	136.31	121.02
4	3-L	436	SER	CA-C-O	13.07	136.31	121.02
4	4-L	436	SER	CA-C-O	13.07	136.31	121.02
4	5-L	436	SER	CA-C-O	13.07	136.31	121.02
4	6-L	436	SER	CA-C-O	13.07	136.31	121.02
4	7-L	436	SER	CA-C-O	13.07	136.31	121.02
4	8-L	436	SER	CA-C-O	13.07	136.31	121.02
6	1-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	1-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	2-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	2-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	3-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	3-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	4-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	4-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	5-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	5-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	6-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	6-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	7-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	7-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	8-H	391	GLN	CA-C-N	13.07	137.79	120.28
6	8-H	391	GLN	C-N-CA	13.07	137.79	120.28
6	1-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	1-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	2-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	2-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	3-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	3-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	4-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	4-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	5-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	5-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	6-T	391	GLN	CA-C-N	13.07	137.79	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	7-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	7-T	391	GLN	C-N-CA	13.07	137.79	120.28
6	8-T	391	GLN	CA-C-N	13.07	137.79	120.28
6	8-T	391	GLN	C-N-CA	13.07	137.79	120.28
4	1-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	2-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	3-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	4-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	5-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	6-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	7-R	367	THR	N-CA-C	-13.05	96.71	112.89
4	8-R	367	THR	N-CA-C	-13.05	96.71	112.89
6	1-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	1-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	2-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	2-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	3-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	3-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	4-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	4-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	5-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	5-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	6-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	6-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	7-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	7-Z	391	GLN	C-N-CA	13.04	137.75	120.28
6	8-Z	391	GLN	CA-C-N	13.04	137.75	120.28
6	8-Z	391	GLN	C-N-CA	13.04	137.75	120.28
4	1-X	436	SER	CA-C-O	13.01	136.25	121.02
4	2-X	436	SER	CA-C-O	13.01	136.25	121.02
4	3-X	436	SER	CA-C-O	13.01	136.25	121.02
4	4-X	436	SER	CA-C-O	13.01	136.25	121.02
4	5-X	436	SER	CA-C-O	13.01	136.25	121.02
4	6-X	436	SER	CA-C-O	13.01	136.25	121.02
4	7-X	436	SER	CA-C-O	13.01	136.25	121.02
4	8-X	436	SER	CA-C-O	13.01	136.25	121.02
4	1-F	436	SER	CA-C-O	13.01	136.24	121.02
4	2-F	436	SER	CA-C-O	13.01	136.24	121.02
4	3-F	436	SER	CA-C-O	13.01	136.24	121.02
4	4-F	436	SER	CA-C-O	13.01	136.24	121.02
4	5-F	436	SER	CA-C-O	13.01	136.24	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	436	SER	CA-C-O	13.01	136.24	121.02
4	7-F	436	SER	CA-C-O	13.01	136.24	121.02
4	8-F	436	SER	CA-C-O	13.01	136.24	121.02
4	1-R	436	SER	CA-C-O	12.99	136.22	121.02
4	2-R	436	SER	CA-C-O	12.99	136.22	121.02
4	3-R	436	SER	CA-C-O	12.99	136.22	121.02
4	4-R	436	SER	CA-C-O	12.99	136.22	121.02
4	5-R	436	SER	CA-C-O	12.99	136.22	121.02
4	6-R	436	SER	CA-C-O	12.99	136.22	121.02
4	7-R	436	SER	CA-C-O	12.99	136.22	121.02
4	8-R	436	SER	CA-C-O	12.99	136.22	121.02
4	1-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	1-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	2-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	2-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	3-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	3-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	4-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	4-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	5-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	5-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	6-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	6-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	7-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	7-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	8-L	456	ASP	CA-C-N	-12.96	96.80	121.54
4	8-L	456	ASP	C-N-CA	-12.96	96.80	121.54
4	1-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	1-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	2-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	2-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	3-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	3-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	4-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	4-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	5-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	5-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	6-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	6-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	7-X	456	ASP	CA-C-N	-12.95	96.80	121.54
4	7-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	8-X	456	ASP	CA-C-N	-12.95	96.80	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	456	ASP	C-N-CA	-12.95	96.80	121.54
4	1-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	1-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	2-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	2-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	3-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	3-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	4-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	4-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	5-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	5-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	6-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	6-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	7-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	7-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	8-F	456	ASP	CA-C-N	-12.94	96.82	121.54
4	8-F	456	ASP	C-N-CA	-12.94	96.82	121.54
4	1-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	1-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	1-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	1-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	1-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	1-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	2-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	2-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	2-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	2-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	2-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	2-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	3-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	3-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	3-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	3-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	3-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	3-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	4-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	4-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	4-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	4-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	4-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	4-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	5-L	305	ASP	CB-CA-C	12.93	130.36	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	5-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	5-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	5-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	5-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	6-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	6-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	6-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	6-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	6-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	6-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	7-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	7-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	7-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	7-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	7-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	7-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	8-L	305	ASP	CB-CA-C	12.93	130.36	109.41
4	8-L	462	GLU	N-CA-CB	12.93	129.97	110.70
4	8-R	305	ASP	CB-CA-C	12.93	130.36	109.41
4	8-R	456	ASP	CA-C-N	-12.93	96.84	121.54
4	8-R	456	ASP	C-N-CA	-12.93	96.84	121.54
4	8-X	305	ASP	CB-CA-C	12.93	130.36	109.41
4	1-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	1-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	2-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	2-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	3-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	3-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	4-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	4-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	5-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	5-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	6-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	6-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	7-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	7-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	8-F	305	ASP	CB-CA-C	12.93	130.36	109.41
4	8-F	462	GLU	N-CA-CB	12.93	129.97	110.70
4	1-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	1-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	2-X	462	GLU	N-CA-CB	12.91	129.94	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	3-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	3-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	4-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	4-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	5-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	5-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	6-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	6-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	7-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	7-Y	379	HIS	O-C-N	-12.91	105.41	122.59
4	8-X	462	GLU	N-CA-CB	12.91	129.94	110.70
5	8-Y	379	HIS	O-C-N	-12.91	105.41	122.59
5	1-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	2-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	3-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	4-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	5-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	6-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	7-M	379	HIS	O-C-N	-12.91	105.42	122.59
5	8-M	379	HIS	O-C-N	-12.91	105.42	122.59
6	1-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	2-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	3-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	4-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	5-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	6-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	7-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	8-Z	462	GLY	CA-C-O	-12.90	107.06	121.00
6	1-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	2-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	3-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	4-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	5-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	6-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	7-H	462	GLY	CA-C-O	-12.90	107.07	121.00
6	8-H	462	GLY	CA-C-O	-12.90	107.07	121.00
5	1-S	379	HIS	O-C-N	-12.90	105.44	122.59
5	2-S	379	HIS	O-C-N	-12.90	105.44	122.59
5	3-S	379	HIS	O-C-N	-12.90	105.44	122.59
5	4-S	379	HIS	O-C-N	-12.90	105.44	122.59
5	5-S	379	HIS	O-C-N	-12.90	105.44	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-S	379	HIS	O-C-N	-12.90	105.44	122.59
5	7-S	379	HIS	O-C-N	-12.90	105.44	122.59
5	8-S	379	HIS	O-C-N	-12.90	105.44	122.59
4	1-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	2-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	3-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	4-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	5-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	6-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	7-R	462	GLU	N-CA-CB	12.90	129.92	110.70
4	8-R	462	GLU	N-CA-CB	12.90	129.92	110.70
5	1-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	2-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	3-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	4-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	5-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	6-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	7-G	379	HIS	O-C-N	-12.89	105.44	122.59
5	8-G	379	HIS	O-C-N	-12.89	105.44	122.59
6	1-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	2-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	3-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	4-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	5-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	6-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	7-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	8-T	462	GLY	CA-C-O	-12.88	107.09	121.00
6	1-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	2-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	3-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	4-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	5-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	6-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	7-N	462	GLY	CA-C-O	-12.87	107.10	121.00
6	8-N	462	GLY	CA-C-O	-12.87	107.10	121.00
5	1-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	2-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	3-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	4-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	5-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	6-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	7-G	405	SER	CB-CA-C	12.84	131.33	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	405	SER	CB-CA-C	12.84	131.33	110.92
5	1-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	2-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	3-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	4-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	5-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	6-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	7-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	8-M	405	SER	CB-CA-C	12.83	131.32	110.92
5	1-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	2-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	3-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	4-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	5-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	6-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	7-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	8-S	405	SER	CB-CA-C	12.83	131.32	110.92
5	1-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	2-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	3-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	4-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	5-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	6-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	7-Y	405	SER	CB-CA-C	12.81	131.29	110.92
5	8-Y	405	SER	CB-CA-C	12.81	131.29	110.92
4	1-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	1-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	2-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	2-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	3-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	3-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	4-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	4-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	5-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	5-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	6-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	6-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	7-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	7-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	8-R	320	GLU	CA-C-N	-12.69	96.56	121.94
4	8-R	320	GLU	C-N-CA	-12.69	96.56	121.94
4	1-X	320	GLU	CA-C-N	-12.68	96.58	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	2-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	2-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	3-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	3-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	4-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	4-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	5-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	5-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	6-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	6-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	7-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	7-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	8-X	320	GLU	CA-C-N	-12.68	96.58	121.94
4	8-X	320	GLU	C-N-CA	-12.68	96.58	121.94
4	1-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	1-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	2-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	2-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	3-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	3-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	4-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	4-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	5-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	5-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	6-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	6-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	7-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	7-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	8-F	320	GLU	CA-C-N	-12.68	96.58	121.94
4	8-F	320	GLU	C-N-CA	-12.68	96.58	121.94
4	1-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	1-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	2-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	2-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	3-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	3-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	4-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	4-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	5-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	5-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	6-L	320	GLU	CA-C-N	-12.66	96.62	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	7-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	7-L	320	GLU	C-N-CA	-12.66	96.62	121.94
4	8-L	320	GLU	CA-C-N	-12.66	96.62	121.94
4	8-L	320	GLU	C-N-CA	-12.66	96.62	121.94
5	1-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	2-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	3-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	4-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	5-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	6-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	7-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	8-Y	330	LYS	O-C-N	-12.50	106.71	122.09
5	1-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	1-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	2-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	2-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	3-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	3-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	4-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	4-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	5-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	5-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	6-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	6-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	7-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	7-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	8-G	330	LYS	O-C-N	-12.50	106.72	122.09
5	8-S	330	LYS	O-C-N	-12.50	106.72	122.09
5	1-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	2-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	3-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	4-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	5-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	6-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	7-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	8-M	330	LYS	O-C-N	-12.48	106.73	122.09
5	1-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	2-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	3-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	4-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	5-Y	330	LYS	N-CA-C	-12.46	96.77	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	7-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	8-Y	330	LYS	N-CA-C	-12.46	96.77	112.72
5	1-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	2-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	3-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	4-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	5-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	6-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	7-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	8-S	330	LYS	N-CA-C	-12.46	96.77	112.72
5	1-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	2-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	3-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	4-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	5-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	6-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	7-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	8-G	330	LYS	N-CA-C	-12.44	96.80	112.72
5	1-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	2-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	3-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	4-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	5-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	6-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	7-M	330	LYS	N-CA-C	-12.44	96.80	112.72
5	8-M	330	LYS	N-CA-C	-12.44	96.80	112.72
3	1-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	1-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	2-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	2-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	3-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	3-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	4-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	4-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	5-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	5-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	6-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	6-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	7-D	1531	GLU	CA-C-N	12.39	136.89	120.28
3	7-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	8-D	1531	GLU	CA-C-N	12.39	136.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1531	GLU	C-N-CA	12.39	136.89	120.28
3	1-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	1-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	1-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	2-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	2-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	2-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	3-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	3-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	3-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	4-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	4-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	4-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	5-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	5-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	5-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	6-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	6-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	6-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	7-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	7-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	7-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	8-P	1531	GLU	CA-C-N	12.39	136.88	120.28
3	8-P	1531	GLU	C-N-CA	12.39	136.88	120.28
6	8-T	410	LEU	CA-C-O	-12.39	104.14	119.38
3	1-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	2-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	3-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	4-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	5-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	6-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	7-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	8-P	1520	GLY	O-C-N	12.39	138.80	122.70
3	1-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	2-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	3-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	4-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	5-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	6-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	7-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	8-V	1520	GLY	O-C-N	12.39	138.80	122.70
3	1-D	1520	GLY	O-C-N	12.38	138.79	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1520	GLY	O-C-N	12.38	138.79	122.70
3	3-D	1520	GLY	O-C-N	12.38	138.79	122.70
3	4-D	1520	GLY	O-C-N	12.38	138.79	122.70
3	5-D	1520	GLY	O-C-N	12.38	138.79	122.70
3	6-D	1520	GLY	O-C-N	12.38	138.79	122.70
3	7-D	1520	GLY	O-C-N	12.38	138.79	122.70
3	8-D	1520	GLY	O-C-N	12.38	138.79	122.70
4	1-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	2-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	3-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	4-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	5-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	6-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	7-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	8-L	448	ARG	CB-CA-C	-12.37	83.12	110.21
4	1-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	2-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	3-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	4-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	5-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	6-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	7-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	8-X	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	1-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	1-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	2-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	2-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	3-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	3-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	4-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	4-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	5-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	5-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	6-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	6-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	7-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	7-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	8-F	448	ARG	CB-CA-C	-12.36	83.14	110.21
4	8-R	448	ARG	CB-CA-C	-12.36	83.14	110.21
1	1-A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	2-A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	3-A	395	GLY	N-CA-C	-12.36	96.95	112.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	5-A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	6-A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	7-A	395	GLY	N-CA-C	-12.36	96.95	112.77
1	8-A	395	GLY	N-CA-C	-12.36	96.95	112.77
3	1-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	1-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	2-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	2-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	3-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	3-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	4-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	4-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	5-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	5-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	6-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	6-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	7-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	7-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	8-J	1531	GLU	CA-C-N	12.36	136.84	120.28
3	8-J	1531	GLU	C-N-CA	12.36	136.84	120.28
3	1-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	2-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	3-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	4-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	5-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	6-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	7-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	8-J	1520	GLY	O-C-N	12.35	138.76	122.70
3	1-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	1-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	2-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	2-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	3-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	3-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	4-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	4-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	5-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	5-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	6-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	6-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	7-V	1531	GLU	CA-C-N	12.35	136.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1531	GLU	C-N-CA	12.35	136.83	120.28
3	8-V	1531	GLU	CA-C-N	12.35	136.83	120.28
3	8-V	1531	GLU	C-N-CA	12.35	136.83	120.28
6	1-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	1-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	2-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	2-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	3-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	3-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	4-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	4-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	5-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	5-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	6-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	6-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	7-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	7-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	8-H	410	LEU	CA-C-O	-12.34	104.20	119.38
1	8-W	395	GLY	N-CA-C	-12.34	96.97	112.77
6	1-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	2-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	3-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	4-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	5-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	6-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	7-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	8-Z	410	LEU	CA-C-O	-12.34	104.20	119.38
6	1-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	2-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	3-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	4-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	5-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	6-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	7-N	410	LEU	CA-C-O	-12.33	104.21	119.38
6	8-N	410	LEU	CA-C-O	-12.33	104.21	119.38
4	1-X	486	GLU	O-C-N	12.33	137.09	122.17
4	2-X	486	GLU	O-C-N	12.33	137.09	122.17
4	3-X	486	GLU	O-C-N	12.33	137.09	122.17
4	4-X	486	GLU	O-C-N	12.33	137.09	122.17
4	5-X	486	GLU	O-C-N	12.33	137.09	122.17
4	6-X	486	GLU	O-C-N	12.33	137.09	122.17
4	7-X	486	GLU	O-C-N	12.33	137.09	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	486	GLU	O-C-N	12.33	137.09	122.17
1	1-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	1-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	2-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	2-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	3-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	3-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	4-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	4-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	5-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	5-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	6-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	6-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	7-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	7-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	8-B	395	GLY	N-CA-C	-12.32	97.00	112.77
1	8-E	395	GLY	N-CA-C	-12.32	97.00	112.77
1	1-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	2-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	3-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	4-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	5-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	6-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	7-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	8-Q	395	GLY	N-CA-C	-12.31	97.01	112.77
1	1-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	1-L	486	GLU	O-C-N	12.30	137.06	122.17
1	2-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	2-L	486	GLU	O-C-N	12.30	137.06	122.17
1	3-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	3-L	486	GLU	O-C-N	12.30	137.06	122.17
1	4-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	4-L	486	GLU	O-C-N	12.30	137.06	122.17
1	5-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	5-L	486	GLU	O-C-N	12.30	137.06	122.17
1	6-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	6-L	486	GLU	O-C-N	12.30	137.06	122.17
1	7-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	7-L	486	GLU	O-C-N	12.30	137.06	122.17
1	8-K	395	GLY	N-CA-C	-12.30	97.02	112.77
4	8-L	486	GLU	O-C-N	12.30	137.06	122.17
4	1-R	486	GLU	O-C-N	12.30	137.05	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	486	GLU	O-C-N	12.30	137.05	122.17
4	3-R	486	GLU	O-C-N	12.30	137.05	122.17
4	4-R	486	GLU	O-C-N	12.30	137.05	122.17
4	5-R	486	GLU	O-C-N	12.30	137.05	122.17
4	6-R	486	GLU	O-C-N	12.30	137.05	122.17
4	7-R	486	GLU	O-C-N	12.30	137.05	122.17
4	8-R	486	GLU	O-C-N	12.30	137.05	122.17
4	1-F	486	GLU	O-C-N	12.29	137.04	122.17
4	2-F	486	GLU	O-C-N	12.29	137.04	122.17
4	3-F	486	GLU	O-C-N	12.29	137.04	122.17
4	4-F	486	GLU	O-C-N	12.29	137.04	122.17
4	5-F	486	GLU	O-C-N	12.29	137.04	122.17
4	6-F	486	GLU	O-C-N	12.29	137.04	122.17
4	7-F	486	GLU	O-C-N	12.29	137.04	122.17
4	8-F	486	GLU	O-C-N	12.29	137.04	122.17
6	1-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	1-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	2-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	2-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	3-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	3-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	4-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	4-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	5-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	5-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	6-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	6-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	7-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	7-Z	340	TRP	C-N-CA	12.23	137.05	120.54
6	8-Z	340	TRP	CA-C-N	12.23	137.05	120.54
6	8-Z	340	TRP	C-N-CA	12.23	137.05	120.54
4	1-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	1-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	2-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	2-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	3-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	3-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	4-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	4-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	5-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	5-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	6-F	398	LYS	CA-C-N	-12.23	98.19	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	7-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	7-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	8-F	398	LYS	CA-C-N	-12.23	98.19	121.54
4	8-F	398	LYS	C-N-CA	-12.23	98.19	121.54
4	1-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	1-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	2-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	2-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	3-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	3-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	4-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	4-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	5-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	5-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	6-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	6-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	7-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	7-X	398	LYS	C-N-CA	-12.22	98.20	121.54
4	8-X	398	LYS	CA-C-N	-12.22	98.20	121.54
4	8-X	398	LYS	C-N-CA	-12.22	98.20	121.54
6	1-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	1-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	2-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	2-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	3-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	3-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	4-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	4-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	5-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	5-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	6-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	6-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	7-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	7-H	340	TRP	C-N-CA	12.21	137.03	120.54
6	8-H	340	TRP	CA-C-N	12.21	137.03	120.54
6	8-H	340	TRP	C-N-CA	12.21	137.03	120.54
4	1-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	1-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	2-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	2-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	3-R	398	LYS	CA-C-N	-12.21	98.22	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	4-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	4-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	5-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	5-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	6-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	6-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	7-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	7-R	398	LYS	C-N-CA	-12.21	98.22	121.54
4	8-R	398	LYS	CA-C-N	-12.21	98.22	121.54
4	8-R	398	LYS	C-N-CA	-12.21	98.22	121.54
6	1-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	1-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	2-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	2-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	3-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	3-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	4-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	4-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	5-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	5-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	6-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	6-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	7-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	7-T	340	TRP	C-N-CA	12.21	137.02	120.54
6	8-T	340	TRP	CA-C-N	12.21	137.02	120.54
6	8-T	340	TRP	C-N-CA	12.21	137.02	120.54
3	1-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	1-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	1-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	1-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	1-V	878	PRO	C-N-CA	12.20	138.85	120.31
3	2-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	2-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	2-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	2-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	2-V	878	PRO	C-N-CA	12.20	138.85	120.31
3	3-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	3-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	3-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	3-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	3-V	878	PRO	C-N-CA	12.20	138.85	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	4-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	4-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	4-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	4-V	878	PRO	C-N-CA	12.20	138.85	120.31
3	5-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	5-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	5-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	5-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	5-V	878	PRO	C-N-CA	12.20	138.85	120.31
3	6-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	6-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	6-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	6-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	6-V	878	PRO	C-N-CA	12.20	138.85	120.31
3	7-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	7-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	7-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	7-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	7-V	878	PRO	C-N-CA	12.20	138.85	120.31
3	8-D	878	PRO	CA-C-N	12.20	138.85	120.31
3	8-D	878	PRO	C-N-CA	12.20	138.85	120.31
6	8-H	356	THR	N-CA-CB	12.20	129.01	110.22
3	8-V	878	PRO	CA-C-N	12.20	138.85	120.31
3	8-V	878	PRO	C-N-CA	12.20	138.85	120.31
4	1-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	1-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	2-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	2-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	3-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	3-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	4-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	4-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	5-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	5-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	6-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	6-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	7-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	7-L	398	LYS	C-N-CA	-12.20	98.24	121.54
4	8-L	398	LYS	CA-C-N	-12.20	98.24	121.54
4	8-L	398	LYS	C-N-CA	-12.20	98.24	121.54
2	1-U	6	PHE	CB-CA-C	12.20	131.96	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	3-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	4-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	5-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	6-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	7-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	8-U	6	PHE	CB-CA-C	12.20	131.96	110.01
2	1-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	2-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	3-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	4-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	5-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	6-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	7-C	6	PHE	CB-CA-C	12.19	131.96	110.01
2	8-C	6	PHE	CB-CA-C	12.19	131.96	110.01
6	1-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	2-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	3-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	4-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	5-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	6-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	7-Z	356	THR	N-CA-CB	12.19	128.99	110.22
6	8-Z	356	THR	N-CA-CB	12.19	128.99	110.22
3	1-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	1-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	2-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	2-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	3-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	3-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	4-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	4-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	5-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	5-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	6-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	6-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	7-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	7-J	878	PRO	C-N-CA	12.19	138.83	120.31
3	8-J	878	PRO	CA-C-N	12.19	138.83	120.31
3	8-J	878	PRO	C-N-CA	12.19	138.83	120.31
2	1-I	6	PHE	CB-CA-C	12.18	131.93	110.01
2	2-I	6	PHE	CB-CA-C	12.18	131.93	110.01
2	3-I	6	PHE	CB-CA-C	12.18	131.93	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-I	6	PHE	CB-CA-C	12.18	131.93	110.01
2	5-I	6	PHE	CB-CA-C	12.18	131.93	110.01
2	6-I	6	PHE	CB-CA-C	12.18	131.93	110.01
2	7-I	6	PHE	CB-CA-C	12.18	131.93	110.01
2	8-I	6	PHE	CB-CA-C	12.18	131.93	110.01
6	1-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	1-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	1-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	2-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	2-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	2-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	3-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	3-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	3-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	4-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	4-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	4-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	5-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	5-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	5-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	6-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	6-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	6-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	7-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	7-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	7-T	356	THR	N-CA-CB	12.17	128.97	110.22
6	8-N	340	TRP	CA-C-N	12.17	136.97	120.54
6	8-N	340	TRP	C-N-CA	12.17	136.97	120.54
6	8-T	356	THR	N-CA-CB	12.17	128.97	110.22
2	1-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	2-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	3-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	4-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	5-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	6-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	7-O	6	PHE	CB-CA-C	12.16	131.90	110.01
2	8-O	6	PHE	CB-CA-C	12.16	131.90	110.01
6	1-N	356	THR	N-CA-CB	12.16	128.95	110.22
6	2-N	356	THR	N-CA-CB	12.16	128.95	110.22
6	3-N	356	THR	N-CA-CB	12.16	128.95	110.22
6	4-N	356	THR	N-CA-CB	12.16	128.95	110.22
6	5-N	356	THR	N-CA-CB	12.16	128.95	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-N	356	THR	N-CA-CB	12.16	128.95	110.22
6	7-N	356	THR	N-CA-CB	12.16	128.95	110.22
6	8-N	356	THR	N-CA-CB	12.16	128.95	110.22
3	1-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	1-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	2-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	2-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	3-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	3-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	4-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	4-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	5-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	5-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	6-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	6-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	7-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	7-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	8-P	878	PRO	CA-C-N	12.15	138.78	120.31
3	8-P	878	PRO	C-N-CA	12.15	138.78	120.31
3	1-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	2-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	3-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	4-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	5-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	6-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	7-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	8-J	1519	SER	CA-C-O	12.15	137.88	120.51
3	1-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	2-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	3-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	4-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	5-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	6-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	7-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	8-P	1519	SER	CA-C-O	12.12	137.85	120.51
3	1-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	2-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	3-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	4-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	5-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	6-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	7-V	1519	SER	CA-C-O	12.11	137.83	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1519	SER	CA-C-O	12.11	137.83	120.51
3	1-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	2-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	3-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	4-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	5-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	6-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	7-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	8-D	1519	SER	CA-C-O	12.09	137.81	120.51
3	1-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	1-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	2-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	2-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	3-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	3-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	4-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	4-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	5-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	5-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	6-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	6-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	7-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	7-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	8-V	1510	GLN	CA-C-N	-12.06	100.17	120.68
3	8-V	1510	GLN	C-N-CA	-12.06	100.17	120.68
3	1-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	1-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	2-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	2-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	3-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	3-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	4-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	4-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	5-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	5-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	6-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	6-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	7-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	7-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	8-D	1510	GLN	CA-C-N	-12.05	100.20	120.68
3	8-D	1510	GLN	C-N-CA	-12.05	100.20	120.68
3	1-J	1510	GLN	CA-C-N	-12.04	100.21	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	2-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	2-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	3-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	3-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	4-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	4-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	5-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	5-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	6-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	6-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	7-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	7-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	8-J	1510	GLN	CA-C-N	-12.04	100.21	120.68
3	8-J	1510	GLN	C-N-CA	-12.04	100.21	120.68
3	1-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	1-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	2-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	2-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	3-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	3-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	4-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	4-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	5-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	5-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	6-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	6-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	7-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	7-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
3	8-P	1510	GLN	CA-C-N	-12.03	100.23	120.68
3	8-P	1510	GLN	C-N-CA	-12.03	100.23	120.68
4	1-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	2-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	3-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	4-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	5-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	6-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	7-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	8-X	467	LEU	CA-C-O	-12.01	104.95	119.49
4	1-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	2-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	3-F	467	LEU	CA-C-O	-12.01	104.96	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	5-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	6-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	7-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	8-F	467	LEU	CA-C-O	-12.01	104.96	119.49
4	1-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	2-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	3-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	4-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	5-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	6-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	7-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	8-L	467	LEU	CA-C-O	-11.99	104.98	119.49
4	1-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	2-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	3-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	4-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	5-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	6-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	7-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	8-L	423	ALA	N-CA-C	11.98	136.28	109.81
4	1-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	2-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	3-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	4-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	5-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	6-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	7-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	8-R	467	LEU	CA-C-O	-11.97	105.00	119.49
4	1-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	2-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	3-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	4-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	5-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	6-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	7-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	8-X	423	ALA	N-CA-C	11.96	136.25	109.81
4	1-F	423	ALA	N-CA-C	11.96	136.25	109.81
4	2-F	423	ALA	N-CA-C	11.96	136.25	109.81
4	3-F	423	ALA	N-CA-C	11.96	136.25	109.81
4	4-F	423	ALA	N-CA-C	11.96	136.25	109.81
4	5-F	423	ALA	N-CA-C	11.96	136.25	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	423	ALA	N-CA-C	11.96	136.25	109.81
4	7-F	423	ALA	N-CA-C	11.96	136.25	109.81
4	8-F	423	ALA	N-CA-C	11.96	136.25	109.81
2	1-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	2-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	3-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	4-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	5-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	6-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	7-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	8-U	15	GLN	CB-CA-C	-11.95	87.73	110.67
2	1-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	2-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	3-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	4-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	5-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	6-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	7-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
2	8-O	15	GLN	CB-CA-C	-11.94	87.75	110.67
4	1-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	2-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	3-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	4-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	5-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	6-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	7-R	423	ALA	N-CA-C	11.94	136.19	109.81
4	8-R	423	ALA	N-CA-C	11.94	136.19	109.81
2	1-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	2-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	3-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	4-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	5-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	6-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	7-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
2	8-C	15	GLN	CB-CA-C	-11.93	87.76	110.67
4	1-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	2-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	3-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	4-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	5-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	6-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
4	7-F	452	ARG	CB-CA-C	-11.93	86.68	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	452	ARG	CB-CA-C	-11.93	86.68	110.42
2	1-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	2-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	3-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	4-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	5-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	6-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	7-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
2	8-I	15	GLN	CB-CA-C	-11.93	87.77	110.67
4	1-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	2-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	3-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	4-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	5-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	6-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	7-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	8-L	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	1-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	2-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	3-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	4-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	5-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	6-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	7-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	8-X	452	ARG	CB-CA-C	-11.92	86.70	110.42
4	1-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	2-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	3-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	4-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	5-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	6-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	7-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	8-R	452	ARG	CB-CA-C	-11.91	86.72	110.42
4	1-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	1-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	2-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	2-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	3-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	3-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	4-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	4-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	5-F	457	ALA	CB-CA-C	11.91	134.12	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	6-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	6-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	7-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	7-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	8-F	457	ALA	CB-CA-C	11.91	134.12	110.42
4	8-R	457	ALA	CB-CA-C	11.91	134.12	110.42
4	1-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	2-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	3-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	4-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	5-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	6-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	7-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	8-X	457	ALA	CB-CA-C	11.89	134.09	110.42
4	1-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	2-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	3-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	4-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	5-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	6-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	7-L	457	ALA	CB-CA-C	11.89	134.08	110.42
4	8-L	457	ALA	CB-CA-C	11.89	134.08	110.42
6	1-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	2-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	3-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	4-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	5-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	6-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	7-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	8-N	352	LEU	N-CA-CB	11.85	127.60	109.94
6	1-N	487	TRP	O-C-N	11.85	134.68	122.12
6	2-N	487	TRP	O-C-N	11.85	134.68	122.12
6	3-N	487	TRP	O-C-N	11.85	134.68	122.12
6	4-N	487	TRP	O-C-N	11.85	134.68	122.12
6	5-N	487	TRP	O-C-N	11.85	134.68	122.12
6	6-N	487	TRP	O-C-N	11.85	134.68	122.12
6	7-N	487	TRP	O-C-N	11.85	134.68	122.12
6	8-N	487	TRP	O-C-N	11.85	134.68	122.12
6	1-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	2-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	3-H	352	LEU	N-CA-CB	11.84	127.58	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	5-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	6-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	7-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	8-H	352	LEU	N-CA-CB	11.84	127.58	109.94
6	1-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	2-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	3-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	4-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	5-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	6-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	7-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
6	8-Z	352	LEU	N-CA-CB	11.82	127.55	109.94
4	1-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	1-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	2-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	2-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	3-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	3-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	4-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	4-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	5-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	5-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	6-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	6-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	7-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	7-T	352	LEU	N-CA-CB	11.82	127.55	109.94
4	8-F	462	GLU	CB-CA-C	-11.82	91.44	110.94
6	8-T	352	LEU	N-CA-CB	11.82	127.55	109.94
3	1-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	1-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	2-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	2-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	3-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	3-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	4-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	4-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	5-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	5-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	6-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	6-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	7-P	1511	GLN	O-C-N	11.80	138.15	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	8-P	1511	GLN	O-C-N	11.80	138.15	122.33
4	8-R	462	GLU	CB-CA-C	-11.80	91.46	110.94
3	1-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	2-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	3-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	4-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	5-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	6-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	7-J	1511	GLN	O-C-N	11.80	138.14	122.33
3	8-J	1511	GLN	O-C-N	11.80	138.14	122.33
4	1-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	1-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	1-V	1511	GLN	O-C-N	11.79	138.13	122.33
4	2-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	2-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	2-V	1511	GLN	O-C-N	11.79	138.13	122.33
4	3-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	3-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	3-V	1511	GLN	O-C-N	11.79	138.13	122.33
4	4-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
4	6-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	4-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	4-V	1511	GLN	O-C-N	11.79	138.13	122.33
4	5-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	5-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	5-V	1511	GLN	O-C-N	11.79	138.13	122.33
3	6-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	6-V	1511	GLN	O-C-N	11.79	138.13	122.33
4	7-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	7-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	7-V	1511	GLN	O-C-N	11.79	138.13	122.33
4	8-L	462	GLU	CB-CA-C	-11.79	91.48	110.94
3	8-D	1511	GLN	O-C-N	11.79	138.13	122.33
3	8-V	1511	GLN	O-C-N	11.79	138.13	122.33
6	1-T	487	TRP	O-C-N	11.79	134.62	122.12
6	2-T	487	TRP	O-C-N	11.79	134.62	122.12
6	3-T	487	TRP	O-C-N	11.79	134.62	122.12
6	4-T	487	TRP	O-C-N	11.79	134.62	122.12
6	5-T	487	TRP	O-C-N	11.79	134.62	122.12
6	6-T	487	TRP	O-C-N	11.79	134.62	122.12
6	7-T	487	TRP	O-C-N	11.79	134.62	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	487	TRP	O-C-N	11.79	134.62	122.12
4	1-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	1-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	2-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	2-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	3-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	3-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	4-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	4-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	5-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	5-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	6-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	6-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	7-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	7-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	8-R	328	VAL	CA-C-N	11.78	143.04	120.07
4	8-R	328	VAL	C-N-CA	11.78	143.04	120.07
4	1-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	1-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	2-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	2-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	3-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	3-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	4-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	4-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	5-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	5-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	6-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	6-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	7-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	7-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	8-X	328	VAL	CA-C-N	11.78	143.04	120.07
4	8-X	328	VAL	C-N-CA	11.78	143.04	120.07
4	1-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	1-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	2-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	2-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	3-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	3-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	4-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	4-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	5-F	328	VAL	CA-C-N	11.78	143.03	120.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	6-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	6-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	7-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	7-F	328	VAL	C-N-CA	11.78	143.03	120.07
4	8-F	328	VAL	CA-C-N	11.78	143.03	120.07
4	8-F	328	VAL	C-N-CA	11.78	143.03	120.07
3	1-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	1-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	1-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	2-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	2-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	2-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	3-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	3-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	3-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	4-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	4-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	4-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	5-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	5-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	5-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	6-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	6-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	6-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	7-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	7-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	7-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
3	8-J	1542	PRO	CA-C-O	-11.77	99.17	120.60
3	8-P	1542	PRO	CA-C-O	-11.77	99.17	120.60
4	8-X	462	GLU	CB-CA-C	-11.77	91.52	110.94
6	1-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	2-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	3-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	4-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	5-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	6-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	7-Z	487	TRP	O-C-N	11.76	134.59	122.12
6	8-Z	487	TRP	O-C-N	11.76	134.59	122.12
4	1-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	1-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	2-L	328	VAL	CA-C-N	11.76	143.00	120.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	3-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	3-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	4-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	4-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	5-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	5-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	6-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	6-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	7-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	7-L	328	VAL	C-N-CA	11.76	143.00	120.07
4	8-L	328	VAL	CA-C-N	11.76	143.00	120.07
4	8-L	328	VAL	C-N-CA	11.76	143.00	120.07
3	1-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	2-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	3-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	4-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	5-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	6-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	7-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	8-D	1542	PRO	CA-C-O	-11.75	99.22	120.60
3	1-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	2-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	3-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	4-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	5-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	6-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	7-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
3	8-V	1542	PRO	CA-C-O	-11.74	99.23	120.60
4	1-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	1-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	1-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	1-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	2-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	2-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	2-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	2-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	3-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	3-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	3-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	3-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	4-F	305	ASP	CA-C-O	11.74	130.21	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	4-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	4-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	5-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	5-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	5-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	5-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	6-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	6-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	6-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	6-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	7-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	7-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	7-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	7-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
4	8-F	305	ASP	CA-C-O	11.74	130.21	119.76
5	8-G	332	PRO	CB-CA-C	11.74	125.24	110.92
5	8-S	332	PRO	CB-CA-C	11.74	125.24	110.92
5	8-Y	332	PRO	CB-CA-C	11.74	125.24	110.92
6	1-H	487	TRP	O-C-N	11.73	134.56	122.12
6	2-H	487	TRP	O-C-N	11.73	134.56	122.12
6	3-H	487	TRP	O-C-N	11.73	134.56	122.12
6	4-H	487	TRP	O-C-N	11.73	134.56	122.12
6	5-H	487	TRP	O-C-N	11.73	134.56	122.12
6	6-H	487	TRP	O-C-N	11.73	134.56	122.12
6	7-H	487	TRP	O-C-N	11.73	134.56	122.12
6	8-H	487	TRP	O-C-N	11.73	134.56	122.12
6	1-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	2-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	3-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	4-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	5-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	6-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	7-T	390	ASP	N-CA-C	11.73	124.05	111.03
6	8-T	390	ASP	N-CA-C	11.73	124.05	111.03
5	1-G	393	TYR	CA-C-O	-11.73	104.77	119.31
5	2-G	393	TYR	CA-C-O	-11.73	104.77	119.31
5	3-G	393	TYR	CA-C-O	-11.73	104.77	119.31
5	4-G	393	TYR	CA-C-O	-11.73	104.77	119.31
5	5-G	393	TYR	CA-C-O	-11.73	104.77	119.31
5	6-G	393	TYR	CA-C-O	-11.73	104.77	119.31
5	7-G	393	TYR	CA-C-O	-11.73	104.77	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	393	TYR	CA-C-O	-11.73	104.77	119.31
6	1-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	2-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	3-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	4-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	5-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	6-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	7-N	390	ASP	N-CA-C	11.72	124.04	111.03
6	8-N	390	ASP	N-CA-C	11.72	124.04	111.03
5	1-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	2-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	3-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	4-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	5-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	6-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	7-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
5	8-Y	393	TYR	CA-C-O	-11.71	104.78	119.31
6	1-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	2-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	3-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	4-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	5-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	6-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	7-Z	390	ASP	N-CA-C	11.71	124.03	111.03
6	8-Z	390	ASP	N-CA-C	11.71	124.03	111.03
5	1-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	2-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	3-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	4-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	5-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	6-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	7-S	393	TYR	CA-C-O	-11.71	104.79	119.31
5	8-S	393	TYR	CA-C-O	-11.71	104.79	119.31
6	1-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	2-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	3-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	4-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	5-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	6-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	7-H	390	ASP	N-CA-C	11.70	124.02	111.03
6	8-H	390	ASP	N-CA-C	11.70	124.02	111.03
5	1-M	332	PRO	CB-CA-C	11.70	125.19	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	332	PRO	CB-CA-C	11.70	125.19	110.92
5	3-M	332	PRO	CB-CA-C	11.70	125.19	110.92
5	4-M	332	PRO	CB-CA-C	11.70	125.19	110.92
5	5-M	332	PRO	CB-CA-C	11.70	125.19	110.92
5	6-M	332	PRO	CB-CA-C	11.70	125.19	110.92
5	7-M	332	PRO	CB-CA-C	11.70	125.19	110.92
5	8-M	332	PRO	CB-CA-C	11.70	125.19	110.92
3	1-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	1-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	2-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	2-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	3-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	3-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	4-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	4-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	5-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	5-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	6-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	6-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	7-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	7-L	305	ASP	CA-C-O	11.69	130.16	119.76
3	8-J	1503	ILE	O-C-N	11.69	133.21	121.87
4	8-L	305	ASP	CA-C-O	11.69	130.16	119.76
4	1-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	2-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	3-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	4-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	5-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	6-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	7-R	305	ASP	CA-C-O	11.69	130.16	119.76
4	8-R	305	ASP	CA-C-O	11.69	130.16	119.76
5	1-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	2-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	3-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	4-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	5-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	6-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	7-M	393	TYR	CA-C-O	-11.68	104.83	119.31
5	8-M	393	TYR	CA-C-O	-11.68	104.83	119.31
4	1-X	305	ASP	CA-C-O	11.66	130.14	119.76
4	2-X	305	ASP	CA-C-O	11.66	130.14	119.76
4	3-X	305	ASP	CA-C-O	11.66	130.14	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	305	ASP	CA-C-O	11.66	130.14	119.76
4	5-X	305	ASP	CA-C-O	11.66	130.14	119.76
4	6-X	305	ASP	CA-C-O	11.66	130.14	119.76
4	7-X	305	ASP	CA-C-O	11.66	130.14	119.76
4	8-X	305	ASP	CA-C-O	11.66	130.14	119.76
3	1-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	2-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	3-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	4-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	5-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	6-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	7-V	1503	ILE	O-C-N	11.64	133.16	121.87
3	8-V	1503	ILE	O-C-N	11.64	133.16	121.87
4	1-L	367	THR	CA-C-N	11.63	142.62	120.99
4	1-L	367	THR	C-N-CA	11.63	142.62	120.99
4	2-L	367	THR	CA-C-N	11.63	142.62	120.99
4	2-L	367	THR	C-N-CA	11.63	142.62	120.99
4	3-L	367	THR	CA-C-N	11.63	142.62	120.99
4	3-L	367	THR	C-N-CA	11.63	142.62	120.99
4	4-L	367	THR	CA-C-N	11.63	142.62	120.99
4	4-L	367	THR	C-N-CA	11.63	142.62	120.99
4	5-L	367	THR	CA-C-N	11.63	142.62	120.99
4	5-L	367	THR	C-N-CA	11.63	142.62	120.99
4	6-L	367	THR	CA-C-N	11.63	142.62	120.99
4	6-L	367	THR	C-N-CA	11.63	142.62	120.99
4	7-L	367	THR	CA-C-N	11.63	142.62	120.99
4	7-L	367	THR	C-N-CA	11.63	142.62	120.99
4	8-L	367	THR	CA-C-N	11.63	142.62	120.99
4	8-L	367	THR	C-N-CA	11.63	142.62	120.99
3	1-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	2-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	3-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	4-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	5-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	6-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	7-D	1503	ILE	O-C-N	11.63	133.15	121.87
3	8-D	1503	ILE	O-C-N	11.63	133.15	121.87
4	1-R	367	THR	CA-C-N	11.63	142.61	120.99
4	1-R	367	THR	C-N-CA	11.63	142.61	120.99
4	2-R	367	THR	CA-C-N	11.63	142.61	120.99
4	2-R	367	THR	C-N-CA	11.63	142.61	120.99
4	3-R	367	THR	CA-C-N	11.63	142.61	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	367	THR	C-N-CA	11.63	142.61	120.99
4	4-R	367	THR	CA-C-N	11.63	142.61	120.99
4	4-R	367	THR	C-N-CA	11.63	142.61	120.99
4	5-R	367	THR	CA-C-N	11.63	142.61	120.99
4	5-R	367	THR	C-N-CA	11.63	142.61	120.99
4	6-R	367	THR	CA-C-N	11.63	142.61	120.99
4	6-R	367	THR	C-N-CA	11.63	142.61	120.99
4	7-R	367	THR	CA-C-N	11.63	142.61	120.99
4	7-R	367	THR	C-N-CA	11.63	142.61	120.99
4	8-R	367	THR	CA-C-N	11.63	142.61	120.99
4	8-R	367	THR	C-N-CA	11.63	142.61	120.99
4	1-F	367	THR	CA-C-N	11.62	142.60	120.99
4	1-F	367	THR	C-N-CA	11.62	142.60	120.99
3	1-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	2-F	367	THR	CA-C-N	11.62	142.60	120.99
4	2-F	367	THR	C-N-CA	11.62	142.60	120.99
3	2-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	3-F	367	THR	CA-C-N	11.62	142.60	120.99
4	3-F	367	THR	C-N-CA	11.62	142.60	120.99
3	3-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	4-F	367	THR	CA-C-N	11.62	142.60	120.99
4	4-F	367	THR	C-N-CA	11.62	142.60	120.99
3	4-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	5-F	367	THR	CA-C-N	11.62	142.60	120.99
4	5-F	367	THR	C-N-CA	11.62	142.60	120.99
3	5-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	6-F	367	THR	CA-C-N	11.62	142.60	120.99
4	6-F	367	THR	C-N-CA	11.62	142.60	120.99
3	6-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	7-F	367	THR	CA-C-N	11.62	142.60	120.99
4	7-F	367	THR	C-N-CA	11.62	142.60	120.99
3	7-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	8-F	367	THR	CA-C-N	11.62	142.60	120.99
4	8-F	367	THR	C-N-CA	11.62	142.60	120.99
3	8-P	1503	ILE	O-C-N	11.62	133.14	121.87
4	1-X	367	THR	CA-C-N	11.61	142.57	120.99
4	1-X	367	THR	C-N-CA	11.61	142.57	120.99
4	2-X	367	THR	CA-C-N	11.61	142.57	120.99
4	2-X	367	THR	C-N-CA	11.61	142.57	120.99
4	3-X	367	THR	CA-C-N	11.61	142.57	120.99
4	3-X	367	THR	C-N-CA	11.61	142.57	120.99
4	4-X	367	THR	CA-C-N	11.61	142.57	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	367	THR	C-N-CA	11.61	142.57	120.99
4	5-X	367	THR	CA-C-N	11.61	142.57	120.99
4	5-X	367	THR	C-N-CA	11.61	142.57	120.99
4	6-X	367	THR	CA-C-N	11.61	142.57	120.99
4	6-X	367	THR	C-N-CA	11.61	142.57	120.99
4	7-X	367	THR	CA-C-N	11.61	142.57	120.99
4	7-X	367	THR	C-N-CA	11.61	142.57	120.99
4	8-X	367	THR	CA-C-N	11.61	142.57	120.99
4	8-X	367	THR	C-N-CA	11.61	142.57	120.99
5	1-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	1-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	1-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	2-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	2-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	2-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	3-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	3-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	3-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	4-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	4-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	4-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	5-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	5-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	5-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	6-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	6-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	6-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	7-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	7-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	7-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
5	8-G	406	ILE	CB-CA-C	-11.60	96.83	112.02
5	8-M	406	ILE	CB-CA-C	-11.60	96.83	112.02
3	8-V	1470	ILE	CA-C-O	-11.60	108.88	121.17
4	1-L	427	PHE	O-C-N	11.59	134.01	122.07
4	2-L	427	PHE	O-C-N	11.59	134.01	122.07
4	3-L	427	PHE	O-C-N	11.59	134.01	122.07
4	4-L	427	PHE	O-C-N	11.59	134.01	122.07
4	5-L	427	PHE	O-C-N	11.59	134.01	122.07
4	6-L	427	PHE	O-C-N	11.59	134.01	122.07
4	7-L	427	PHE	O-C-N	11.59	134.01	122.07
4	8-L	427	PHE	O-C-N	11.59	134.01	122.07
4	1-F	427	PHE	O-C-N	11.58	134.00	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	427	PHE	O-C-N	11.58	134.00	122.07
4	3-F	427	PHE	O-C-N	11.58	134.00	122.07
4	4-F	427	PHE	O-C-N	11.58	134.00	122.07
4	5-F	427	PHE	O-C-N	11.58	134.00	122.07
4	6-F	427	PHE	O-C-N	11.58	134.00	122.07
4	7-F	427	PHE	O-C-N	11.58	134.00	122.07
4	8-F	427	PHE	O-C-N	11.58	134.00	122.07
4	1-R	427	PHE	O-C-N	11.58	134.00	122.07
4	2-R	427	PHE	O-C-N	11.58	134.00	122.07
4	3-R	427	PHE	O-C-N	11.58	134.00	122.07
4	4-R	427	PHE	O-C-N	11.58	134.00	122.07
4	5-R	427	PHE	O-C-N	11.58	134.00	122.07
4	6-R	427	PHE	O-C-N	11.58	134.00	122.07
4	7-R	427	PHE	O-C-N	11.58	134.00	122.07
4	8-R	427	PHE	O-C-N	11.58	134.00	122.07
3	1-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	2-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	3-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	4-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	5-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	6-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	7-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
3	8-P	1470	ILE	CA-C-O	-11.57	108.91	121.17
5	1-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	2-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	3-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	4-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	5-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	6-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	7-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
5	8-S	406	ILE	CB-CA-C	-11.57	96.87	112.02
3	1-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	2-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	3-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	4-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	5-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	6-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	7-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	8-D	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	1-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	1-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	2-J	1470	ILE	CA-C-O	-11.56	108.91	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	3-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	3-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	4-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	4-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	5-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	5-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	6-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	6-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	7-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	7-J	1474	GLY	N-CA-C	11.56	126.63	112.64
3	8-J	1470	ILE	CA-C-O	-11.56	108.91	121.17
3	8-J	1474	GLY	N-CA-C	11.56	126.63	112.64
5	1-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	2-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	3-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	4-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	5-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	6-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	7-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
5	8-Y	406	ILE	CB-CA-C	-11.55	96.89	112.02
3	1-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	2-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	3-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	4-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	5-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	6-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	7-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	8-D	1474	GLY	N-CA-C	11.54	126.60	112.64
3	1-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	2-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	3-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	4-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	5-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	6-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	7-V	1474	GLY	N-CA-C	11.54	126.60	112.64
3	8-V	1474	GLY	N-CA-C	11.54	126.60	112.64
4	1-X	427	PHE	O-C-N	11.52	133.93	122.07
4	2-X	427	PHE	O-C-N	11.52	133.93	122.07
4	3-X	427	PHE	O-C-N	11.52	133.93	122.07
4	4-X	427	PHE	O-C-N	11.52	133.93	122.07
4	5-X	427	PHE	O-C-N	11.52	133.93	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	427	PHE	O-C-N	11.52	133.93	122.07
4	7-X	427	PHE	O-C-N	11.52	133.93	122.07
4	8-X	427	PHE	O-C-N	11.52	133.93	122.07
3	1-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	2-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	3-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	4-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	5-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	6-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	7-P	1474	GLY	N-CA-C	11.52	126.57	112.64
3	8-P	1474	GLY	N-CA-C	11.52	126.57	112.64
4	1-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	2-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	3-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	4-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	5-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	6-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	7-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	8-X	408	GLU	N-CA-C	11.51	124.95	111.71
4	1-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	2-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	3-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	4-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	5-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	6-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	7-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	8-F	408	GLU	N-CA-C	11.50	124.93	111.71
4	1-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	2-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	3-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	4-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	5-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	6-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	7-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	8-R	408	GLU	N-CA-C	11.49	124.93	111.71
4	1-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	2-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	3-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	4-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	5-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	6-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	7-L	451	GLU	N-CA-C	11.47	135.23	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	451	GLU	N-CA-C	11.47	135.23	110.80
4	1-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	1-L	426	GLN	O-C-N	11.46	135.22	122.15
6	1-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	1-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	2-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	2-L	426	GLN	O-C-N	11.46	135.22	122.15
6	2-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	2-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	3-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	3-L	426	GLN	O-C-N	11.46	135.22	122.15
6	3-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	3-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	4-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	4-L	426	GLN	O-C-N	11.46	135.22	122.15
6	4-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	4-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	5-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	5-L	426	GLN	O-C-N	11.46	135.22	122.15
6	5-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	5-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	6-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	6-L	426	GLN	O-C-N	11.46	135.22	122.15
6	6-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	6-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	7-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	7-L	426	GLN	O-C-N	11.46	135.22	122.15
6	7-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	7-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	8-L	408	GLU	N-CA-C	11.46	124.89	111.71
4	8-L	426	GLN	O-C-N	11.46	135.22	122.15
6	8-H	462	GLY	O-C-N	-11.46	111.18	122.18
4	8-R	451	GLU	N-CA-C	11.46	135.21	110.80
4	1-F	426	GLN	O-C-N	11.46	135.21	122.15
4	1-X	426	GLN	O-C-N	11.46	135.21	122.15
4	2-F	426	GLN	O-C-N	11.46	135.21	122.15
4	2-X	426	GLN	O-C-N	11.46	135.21	122.15
4	3-F	426	GLN	O-C-N	11.46	135.21	122.15
4	3-X	426	GLN	O-C-N	11.46	135.21	122.15
4	4-F	426	GLN	O-C-N	11.46	135.21	122.15
4	4-X	426	GLN	O-C-N	11.46	135.21	122.15
4	5-F	426	GLN	O-C-N	11.46	135.21	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-X	426	GLN	O-C-N	11.46	135.21	122.15
4	6-F	426	GLN	O-C-N	11.46	135.21	122.15
4	6-X	426	GLN	O-C-N	11.46	135.21	122.15
4	7-F	426	GLN	O-C-N	11.46	135.21	122.15
4	7-X	426	GLN	O-C-N	11.46	135.21	122.15
4	8-F	426	GLN	O-C-N	11.46	135.21	122.15
4	8-X	426	GLN	O-C-N	11.46	135.21	122.15
6	1-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	2-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	3-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	4-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	5-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	6-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	7-T	462	GLY	O-C-N	-11.45	111.19	122.18
6	8-T	462	GLY	O-C-N	-11.45	111.19	122.18
4	1-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	2-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	3-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	4-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	5-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	6-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	7-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	8-F	451	GLU	N-CA-C	11.44	135.17	110.80
4	1-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	2-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	3-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	4-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	5-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	6-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	7-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	8-X	451	GLU	N-CA-C	11.44	135.17	110.80
4	1-R	426	GLN	O-C-N	11.44	135.19	122.15
4	2-R	426	GLN	O-C-N	11.44	135.19	122.15
4	3-R	426	GLN	O-C-N	11.44	135.19	122.15
4	4-R	426	GLN	O-C-N	11.44	135.19	122.15
4	5-R	426	GLN	O-C-N	11.44	135.19	122.15
4	6-R	426	GLN	O-C-N	11.44	135.19	122.15
4	7-R	426	GLN	O-C-N	11.44	135.19	122.15
4	8-R	426	GLN	O-C-N	11.44	135.19	122.15
4	1-L	418	GLN	N-CA-C	11.43	123.72	111.03
4	2-L	418	GLN	N-CA-C	11.43	123.72	111.03
4	3-L	418	GLN	N-CA-C	11.43	123.72	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	418	GLN	N-CA-C	11.43	123.72	111.03
4	5-L	418	GLN	N-CA-C	11.43	123.72	111.03
4	6-L	418	GLN	N-CA-C	11.43	123.72	111.03
4	7-L	418	GLN	N-CA-C	11.43	123.72	111.03
4	8-L	418	GLN	N-CA-C	11.43	123.72	111.03
6	1-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	2-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	3-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	4-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	5-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	6-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	7-Z	462	GLY	O-C-N	-11.43	111.21	122.18
6	8-Z	462	GLY	O-C-N	-11.43	111.21	122.18
4	1-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	2-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	3-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	4-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	5-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	6-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	7-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	8-R	418	GLN	N-CA-C	11.40	123.69	111.03
4	1-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	2-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	3-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	4-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	5-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	6-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	7-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	8-X	418	GLN	N-CA-C	11.40	123.69	111.03
4	1-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	2-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	3-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	4-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	5-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	6-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	7-X	457	ALA	CA-C-O	-11.40	104.21	120.51
4	8-X	457	ALA	CA-C-O	-11.40	104.21	120.51
6	1-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	1-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	2-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	2-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	3-N	462	GLY	O-C-N	-11.40	111.24	122.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	4-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	4-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	5-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	5-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	6-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	6-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	7-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	7-R	457	ALA	CA-C-O	-11.40	104.21	120.51
6	8-N	462	GLY	O-C-N	-11.40	111.24	122.18
4	8-R	457	ALA	CA-C-O	-11.40	104.21	120.51
5	1-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	2-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	3-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	4-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	5-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	6-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	7-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	8-G	330	LYS	CA-C-O	11.39	133.14	119.81
5	1-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	2-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	3-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	4-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	5-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	6-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	7-Y	330	LYS	CA-C-O	11.38	133.13	119.81
5	8-Y	330	LYS	CA-C-O	11.38	133.13	119.81
4	1-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	2-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	3-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	4-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	5-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	6-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	7-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	8-F	457	ALA	CA-C-O	-11.38	104.23	120.51
4	1-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	1-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	2-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	2-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	3-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	3-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	4-F	418	GLN	N-CA-C	11.37	123.65	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	5-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	5-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	6-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	6-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	7-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	7-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	8-F	418	GLN	N-CA-C	11.37	123.65	111.03
4	8-L	457	ALA	CA-C-O	-11.37	104.25	120.51
4	1-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	2-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	3-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	4-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	5-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	6-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	7-X	395	ILE	O-C-N	-11.36	107.13	121.90
4	8-X	395	ILE	O-C-N	-11.36	107.13	121.90
5	1-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	2-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	3-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	4-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	5-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	6-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	7-M	330	LYS	CA-C-O	11.36	133.10	119.81
5	8-M	330	LYS	CA-C-O	11.36	133.10	119.81
4	1-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	2-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	3-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	4-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	5-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	6-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	7-L	395	ILE	O-C-N	-11.35	107.14	121.90
4	8-L	395	ILE	O-C-N	-11.35	107.14	121.90
5	1-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	2-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	3-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	4-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	5-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	6-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	7-S	330	LYS	CA-C-O	11.35	133.09	119.81
5	8-S	330	LYS	CA-C-O	11.35	133.09	119.81
4	1-L	493	HIS	N-CA-C	11.34	142.76	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	3-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	4-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	5-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	6-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	7-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	8-L	493	HIS	N-CA-C	11.34	142.76	111.00
4	1-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	2-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	3-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	4-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	5-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	6-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	7-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	8-R	493	HIS	N-CA-C	11.34	142.74	111.00
4	1-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	2-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	3-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	4-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	5-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	6-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	7-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	8-X	493	HIS	N-CA-C	11.33	142.74	111.00
4	1-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	2-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	3-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	4-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	5-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	6-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	7-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	8-F	395	ILE	O-C-N	-11.33	107.17	121.90
4	1-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	2-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	3-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	4-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	5-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	6-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	7-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	8-F	493	HIS	N-CA-C	11.33	142.72	111.00
4	1-R	395	ILE	O-C-N	-11.31	107.19	121.90
4	2-R	395	ILE	O-C-N	-11.31	107.19	121.90
4	3-R	395	ILE	O-C-N	-11.31	107.19	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	395	ILE	O-C-N	-11.31	107.19	121.90
4	5-R	395	ILE	O-C-N	-11.31	107.19	121.90
4	6-R	395	ILE	O-C-N	-11.31	107.19	121.90
4	7-R	395	ILE	O-C-N	-11.31	107.19	121.90
4	8-R	395	ILE	O-C-N	-11.31	107.19	121.90
5	1-G	324	ILE	O-C-N	11.29	136.84	122.05
5	1-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	2-G	324	ILE	O-C-N	11.29	136.84	122.05
5	2-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	3-G	324	ILE	O-C-N	11.29	136.84	122.05
5	3-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	4-G	324	ILE	O-C-N	11.29	136.84	122.05
5	4-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	5-G	324	ILE	O-C-N	11.29	136.84	122.05
5	5-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	6-G	324	ILE	O-C-N	11.29	136.84	122.05
5	6-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	7-G	324	ILE	O-C-N	11.29	136.84	122.05
5	7-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	8-G	324	ILE	O-C-N	11.29	136.84	122.05
5	8-Y	324	ILE	O-C-N	11.29	136.84	122.05
5	1-M	324	ILE	O-C-N	11.29	136.84	122.05
5	1-S	324	ILE	O-C-N	11.29	136.84	122.05
5	2-M	324	ILE	O-C-N	11.29	136.84	122.05
5	2-S	324	ILE	O-C-N	11.29	136.84	122.05
5	3-M	324	ILE	O-C-N	11.29	136.84	122.05
5	3-S	324	ILE	O-C-N	11.29	136.84	122.05
5	4-M	324	ILE	O-C-N	11.29	136.84	122.05
5	4-S	324	ILE	O-C-N	11.29	136.84	122.05
5	5-M	324	ILE	O-C-N	11.29	136.84	122.05
5	5-S	324	ILE	O-C-N	11.29	136.84	122.05
5	6-M	324	ILE	O-C-N	11.29	136.84	122.05
5	6-S	324	ILE	O-C-N	11.29	136.84	122.05
5	7-M	324	ILE	O-C-N	11.29	136.84	122.05
5	7-S	324	ILE	O-C-N	11.29	136.84	122.05
5	8-M	324	ILE	O-C-N	11.29	136.84	122.05
5	8-S	324	ILE	O-C-N	11.29	136.84	122.05
6	1-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	1-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	2-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	2-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	3-N	487	TRP	CA-C-N	-11.28	102.65	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	4-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	4-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	5-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	5-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	6-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	6-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	7-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	7-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	8-N	487	TRP	CA-C-N	-11.28	102.65	120.47
6	8-N	487	TRP	C-N-CA	-11.28	102.65	120.47
6	1-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	2-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	3-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	4-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	5-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	6-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	7-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	8-H	409	PRO	N-CA-CB	11.27	115.09	103.25
6	1-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	2-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	3-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	4-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	5-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	6-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	7-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	8-T	409	PRO	N-CA-CB	11.27	115.08	103.25
6	1-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	1-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	2-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	2-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	3-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	3-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	4-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	4-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	5-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	5-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	6-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	6-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	7-Z	487	TRP	CA-C-N	-11.26	102.68	120.47
6	7-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	8-Z	487	TRP	CA-C-N	-11.26	102.68	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	487	TRP	C-N-CA	-11.26	102.68	120.47
6	1-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	2-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	3-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	4-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	5-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	6-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	7-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	8-Z	409	PRO	N-CA-CB	11.25	115.06	103.25
6	1-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	2-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	3-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	4-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	5-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	6-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	7-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	8-N	409	PRO	N-CA-CB	11.22	115.03	103.25
6	1-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	1-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	1-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	1-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	2-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	2-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	2-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	2-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	3-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	3-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	3-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	3-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	4-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	4-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	4-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	4-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	5-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	5-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	5-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	5-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	6-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	6-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	6-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	6-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	7-H	487	TRP	CA-C-N	-11.22	102.75	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	7-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	7-T	487	TRP	C-N-CA	-11.22	102.75	120.47
6	8-H	487	TRP	CA-C-N	-11.22	102.75	120.47
6	8-H	487	TRP	C-N-CA	-11.22	102.75	120.47
6	8-T	487	TRP	CA-C-N	-11.22	102.75	120.47
6	8-T	487	TRP	C-N-CA	-11.22	102.75	120.47
5	1-S	378	SER	CA-C-N	11.21	142.96	121.54
5	1-S	378	SER	C-N-CA	11.21	142.96	121.54
5	2-S	378	SER	CA-C-N	11.21	142.96	121.54
5	2-S	378	SER	C-N-CA	11.21	142.96	121.54
5	3-S	378	SER	CA-C-N	11.21	142.96	121.54
5	3-S	378	SER	C-N-CA	11.21	142.96	121.54
5	4-S	378	SER	CA-C-N	11.21	142.96	121.54
5	4-S	378	SER	C-N-CA	11.21	142.96	121.54
5	5-S	378	SER	CA-C-N	11.21	142.96	121.54
5	5-S	378	SER	C-N-CA	11.21	142.96	121.54
5	6-S	378	SER	CA-C-N	11.21	142.96	121.54
5	6-S	378	SER	C-N-CA	11.21	142.96	121.54
5	7-S	378	SER	CA-C-N	11.21	142.96	121.54
5	7-S	378	SER	C-N-CA	11.21	142.96	121.54
5	8-S	378	SER	CA-C-N	11.21	142.96	121.54
5	8-S	378	SER	C-N-CA	11.21	142.96	121.54
5	1-M	378	SER	CA-C-N	11.20	142.94	121.54
5	1-M	378	SER	C-N-CA	11.20	142.94	121.54
5	2-M	378	SER	CA-C-N	11.20	142.94	121.54
5	2-M	378	SER	C-N-CA	11.20	142.94	121.54
5	3-M	378	SER	CA-C-N	11.20	142.94	121.54
5	3-M	378	SER	C-N-CA	11.20	142.94	121.54
5	4-M	378	SER	CA-C-N	11.20	142.94	121.54
5	4-M	378	SER	C-N-CA	11.20	142.94	121.54
5	5-M	378	SER	CA-C-N	11.20	142.94	121.54
5	5-M	378	SER	C-N-CA	11.20	142.94	121.54
5	6-M	378	SER	CA-C-N	11.20	142.94	121.54
5	6-M	378	SER	C-N-CA	11.20	142.94	121.54
5	7-M	378	SER	CA-C-N	11.20	142.94	121.54
5	7-M	378	SER	C-N-CA	11.20	142.94	121.54
5	8-M	378	SER	CA-C-N	11.20	142.94	121.54
5	8-M	378	SER	C-N-CA	11.20	142.94	121.54
5	1-G	378	SER	CA-C-N	11.20	142.93	121.54
5	1-G	378	SER	C-N-CA	11.20	142.93	121.54
5	1-Y	378	SER	CA-C-N	11.20	142.93	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	2-G	378	SER	CA-C-N	11.20	142.93	121.54
5	2-G	378	SER	C-N-CA	11.20	142.93	121.54
5	2-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	2-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	3-G	378	SER	CA-C-N	11.20	142.93	121.54
5	3-G	378	SER	C-N-CA	11.20	142.93	121.54
5	3-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	3-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	4-G	378	SER	CA-C-N	11.20	142.93	121.54
5	4-G	378	SER	C-N-CA	11.20	142.93	121.54
5	4-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	4-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	5-G	378	SER	CA-C-N	11.20	142.93	121.54
5	5-G	378	SER	C-N-CA	11.20	142.93	121.54
5	5-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	5-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	6-G	378	SER	CA-C-N	11.20	142.93	121.54
5	6-G	378	SER	C-N-CA	11.20	142.93	121.54
5	6-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	6-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	7-G	378	SER	CA-C-N	11.20	142.93	121.54
5	7-G	378	SER	C-N-CA	11.20	142.93	121.54
5	7-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	7-Y	378	SER	C-N-CA	11.20	142.93	121.54
5	8-G	378	SER	CA-C-N	11.20	142.93	121.54
5	8-G	378	SER	C-N-CA	11.20	142.93	121.54
5	8-Y	378	SER	CA-C-N	11.20	142.93	121.54
5	8-Y	378	SER	C-N-CA	11.20	142.93	121.54
4	1-F	343	MET	CA-C-O	11.19	132.28	120.42
4	2-F	343	MET	CA-C-O	11.19	132.28	120.42
4	3-F	343	MET	CA-C-O	11.19	132.28	120.42
4	4-F	343	MET	CA-C-O	11.19	132.28	120.42
4	5-F	343	MET	CA-C-O	11.19	132.28	120.42
4	6-F	343	MET	CA-C-O	11.19	132.28	120.42
4	7-F	343	MET	CA-C-O	11.19	132.28	120.42
4	8-F	343	MET	CA-C-O	11.19	132.28	120.42
4	1-R	343	MET	CA-C-O	11.18	132.28	120.42
4	1-X	343	MET	CA-C-O	11.18	132.27	120.42
4	2-R	343	MET	CA-C-O	11.18	132.28	120.42
4	2-X	343	MET	CA-C-O	11.18	132.27	120.42
4	3-R	343	MET	CA-C-O	11.18	132.28	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	343	MET	CA-C-O	11.18	132.27	120.42
4	4-R	343	MET	CA-C-O	11.18	132.28	120.42
4	4-X	343	MET	CA-C-O	11.18	132.27	120.42
4	5-R	343	MET	CA-C-O	11.18	132.28	120.42
4	5-X	343	MET	CA-C-O	11.18	132.27	120.42
4	6-R	343	MET	CA-C-O	11.18	132.28	120.42
4	6-X	343	MET	CA-C-O	11.18	132.27	120.42
4	7-R	343	MET	CA-C-O	11.18	132.28	120.42
4	7-X	343	MET	CA-C-O	11.18	132.27	120.42
4	8-R	343	MET	CA-C-O	11.18	132.28	120.42
4	8-X	343	MET	CA-C-O	11.18	132.27	120.42
5	1-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	2-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	3-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	4-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	5-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	6-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	7-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	8-S	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	1-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	2-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	3-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	4-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	5-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	6-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	7-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
5	8-Y	333	PRO	CB-CA-C	-11.17	93.13	111.56
3	1-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	2-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	3-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	4-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	5-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	6-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	7-P	1472	SER	CA-C-O	11.16	132.72	121.00
3	8-P	1472	SER	CA-C-O	11.16	132.72	121.00
5	1-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
5	2-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
5	3-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
5	4-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
5	5-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
5	6-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
5	7-G	333	PRO	CB-CA-C	-11.16	93.15	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	333	PRO	CB-CA-C	-11.16	93.15	111.56
4	1-L	343	MET	CA-C-O	11.16	132.25	120.42
4	2-L	343	MET	CA-C-O	11.16	132.25	120.42
4	3-L	343	MET	CA-C-O	11.16	132.25	120.42
4	4-L	343	MET	CA-C-O	11.16	132.25	120.42
4	5-L	343	MET	CA-C-O	11.16	132.25	120.42
4	6-L	343	MET	CA-C-O	11.16	132.25	120.42
4	7-L	343	MET	CA-C-O	11.16	132.25	120.42
4	8-L	343	MET	CA-C-O	11.16	132.25	120.42
3	1-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	1-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	1-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	2-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	2-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	2-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	3-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	3-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	3-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	4-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	4-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	4-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	5-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	5-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	5-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	6-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	6-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	6-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	7-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	7-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	7-V	1472	SER	CA-C-O	11.15	132.71	121.00
3	8-J	1472	SER	CA-C-O	11.15	132.71	121.00
5	8-M	333	PRO	CB-CA-C	-11.15	93.16	111.56
3	8-V	1472	SER	CA-C-O	11.15	132.71	121.00
5	1-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	2-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	3-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	4-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	5-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	6-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	7-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	8-S	327	ARG	CB-CA-C	-11.15	88.23	110.42
5	1-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	3-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	4-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	5-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	6-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	7-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	8-Y	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	1-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	2-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	3-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	4-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	5-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	6-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	7-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	8-M	327	ARG	CB-CA-C	-11.14	88.25	110.42
5	1-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	2-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	3-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	4-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	5-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	6-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	7-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
5	8-G	327	ARG	CB-CA-C	-11.14	88.26	110.42
3	1-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	2-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	3-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	4-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	5-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	6-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	7-D	1472	SER	CA-C-O	11.12	132.68	121.00
3	8-D	1472	SER	CA-C-O	11.12	132.68	121.00
6	1-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	1-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	2-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	2-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	3-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	3-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	4-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	4-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	5-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	5-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	6-N	409	PRO	CB-CA-C	-11.11	93.23	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	7-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	7-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	8-N	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	8-Z	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	1-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	2-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	3-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	4-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	5-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	6-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	7-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	8-H	409	PRO	CB-CA-C	-11.11	93.23	111.56
6	1-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	2-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	3-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	4-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	5-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	6-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	7-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
6	8-T	409	PRO	CB-CA-C	-11.10	93.25	111.56
5	1-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	2-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	3-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	4-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	5-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	6-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	7-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	8-S	331	THR	CB-CA-C	11.06	133.18	112.05
5	1-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	1-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	2-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	2-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	3-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	3-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	4-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	4-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	5-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	5-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	6-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	6-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	7-Y	328	THR	CA-C-N	11.05	141.60	121.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	328	THR	C-N-CA	11.05	141.60	121.15
5	8-Y	328	THR	CA-C-N	11.05	141.60	121.15
5	8-Y	328	THR	C-N-CA	11.05	141.60	121.15
2	1-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	2-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	3-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	4-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	5-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	6-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	7-O	5	GLY	O-C-N	-11.05	108.34	122.70
2	8-O	5	GLY	O-C-N	-11.05	108.34	122.70
5	1-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	1-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	1-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	2-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	2-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	2-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	3-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	3-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	3-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	4-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	4-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	4-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	5-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	5-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	5-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	6-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	6-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	6-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	7-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	7-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	7-P	1450	GLU	C-N-CA	11.05	142.64	121.54
5	8-M	331	THR	CB-CA-C	11.05	133.15	112.05
3	8-P	1450	GLU	CA-C-N	11.05	142.64	121.54
3	8-P	1450	GLU	C-N-CA	11.05	142.64	121.54
3	1-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	1-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	2-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	2-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	3-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	3-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	4-V	1450	GLU	CA-C-N	11.05	142.64	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	5-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	5-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	6-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	6-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	7-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	7-V	1450	GLU	C-N-CA	11.05	142.64	121.54
3	8-V	1450	GLU	CA-C-N	11.05	142.64	121.54
3	8-V	1450	GLU	C-N-CA	11.05	142.64	121.54
2	1-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	2-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	3-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	4-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	5-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	6-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	7-U	5	GLY	O-C-N	-11.04	108.35	122.70
2	8-U	5	GLY	O-C-N	-11.04	108.35	122.70
5	1-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	2-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	3-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	4-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	5-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	6-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	7-G	331	THR	CB-CA-C	11.04	133.13	112.05
5	8-G	331	THR	CB-CA-C	11.04	133.13	112.05
2	1-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	1-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	2-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	2-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	3-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	3-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	4-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	4-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	5-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	5-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	6-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	6-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	7-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	7-M	322	ALA	CA-C-O	-11.03	108.86	120.55
2	8-C	5	GLY	O-C-N	-11.03	108.36	122.70
5	8-M	322	ALA	CA-C-O	-11.03	108.86	120.55
5	1-Y	331	THR	CB-CA-C	11.03	133.12	112.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	331	THR	CB-CA-C	11.03	133.12	112.05
5	3-Y	331	THR	CB-CA-C	11.03	133.12	112.05
5	4-Y	331	THR	CB-CA-C	11.03	133.12	112.05
5	5-Y	331	THR	CB-CA-C	11.03	133.12	112.05
5	6-Y	331	THR	CB-CA-C	11.03	133.12	112.05
5	7-Y	331	THR	CB-CA-C	11.03	133.12	112.05
5	8-Y	331	THR	CB-CA-C	11.03	133.12	112.05
2	1-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	1-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	1-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	2-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	2-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	2-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	3-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	3-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	3-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	4-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	4-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	4-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	5-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	5-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	5-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	6-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	6-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	6-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	7-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	7-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	7-J	1450	GLU	C-N-CA	11.03	142.60	121.54
2	8-I	5	GLY	O-C-N	-11.03	108.36	122.70
3	8-J	1450	GLU	CA-C-N	11.03	142.60	121.54
3	8-J	1450	GLU	C-N-CA	11.03	142.60	121.54
5	1-S	328	THR	CA-C-N	11.03	141.55	121.15
5	1-S	328	THR	C-N-CA	11.03	141.55	121.15
2	1-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	1-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	2-S	328	THR	CA-C-N	11.03	141.55	121.15
5	2-S	328	THR	C-N-CA	11.03	141.55	121.15
2	2-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	2-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	3-S	328	THR	CA-C-N	11.03	141.55	121.15
5	3-S	328	THR	C-N-CA	11.03	141.55	121.15
2	3-U	382	ASN	CA-C-N	11.03	142.60	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	4-S	328	THR	CA-C-N	11.03	141.55	121.15
5	4-S	328	THR	C-N-CA	11.03	141.55	121.15
2	4-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	4-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	5-S	328	THR	CA-C-N	11.03	141.55	121.15
5	5-S	328	THR	C-N-CA	11.03	141.55	121.15
2	5-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	5-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	6-S	328	THR	CA-C-N	11.03	141.55	121.15
5	6-S	328	THR	C-N-CA	11.03	141.55	121.15
2	6-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	6-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	7-S	328	THR	CA-C-N	11.03	141.55	121.15
5	7-S	328	THR	C-N-CA	11.03	141.55	121.15
2	7-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	7-U	382	ASN	C-N-CA	11.03	142.60	121.54
5	8-S	328	THR	CA-C-N	11.03	141.55	121.15
5	8-S	328	THR	C-N-CA	11.03	141.55	121.15
2	8-U	382	ASN	CA-C-N	11.03	142.60	121.54
2	8-U	382	ASN	C-N-CA	11.03	142.60	121.54
3	1-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	1-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	2-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	2-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	3-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	3-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	4-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	4-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	5-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	5-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	6-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	6-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	7-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	7-D	1450	GLU	C-N-CA	11.02	142.59	121.54
3	8-D	1450	GLU	CA-C-N	11.02	142.59	121.54
3	8-D	1450	GLU	C-N-CA	11.02	142.59	121.54
5	1-M	328	THR	CA-C-N	11.02	141.54	121.15
5	1-M	328	THR	C-N-CA	11.02	141.54	121.15
5	2-M	328	THR	CA-C-N	11.02	141.54	121.15
5	2-M	328	THR	C-N-CA	11.02	141.54	121.15
5	3-M	328	THR	CA-C-N	11.02	141.54	121.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-M	328	THR	C-N-CA	11.02	141.54	121.15
5	4-M	328	THR	CA-C-N	11.02	141.54	121.15
5	4-M	328	THR	C-N-CA	11.02	141.54	121.15
5	5-M	328	THR	CA-C-N	11.02	141.54	121.15
5	5-M	328	THR	C-N-CA	11.02	141.54	121.15
5	6-M	328	THR	CA-C-N	11.02	141.54	121.15
5	6-M	328	THR	C-N-CA	11.02	141.54	121.15
5	7-M	328	THR	CA-C-N	11.02	141.54	121.15
5	7-M	328	THR	C-N-CA	11.02	141.54	121.15
5	8-M	328	THR	CA-C-N	11.02	141.54	121.15
5	8-M	328	THR	C-N-CA	11.02	141.54	121.15
5	1-G	328	THR	CA-C-N	11.02	141.53	121.15
5	1-G	328	THR	C-N-CA	11.02	141.53	121.15
5	2-G	328	THR	CA-C-N	11.02	141.53	121.15
5	2-G	328	THR	C-N-CA	11.02	141.53	121.15
5	3-G	328	THR	CA-C-N	11.02	141.53	121.15
5	3-G	328	THR	C-N-CA	11.02	141.53	121.15
5	4-G	328	THR	CA-C-N	11.02	141.53	121.15
5	4-G	328	THR	C-N-CA	11.02	141.53	121.15
5	5-G	328	THR	CA-C-N	11.02	141.53	121.15
5	5-G	328	THR	C-N-CA	11.02	141.53	121.15
5	6-G	328	THR	CA-C-N	11.02	141.53	121.15
5	6-G	328	THR	C-N-CA	11.02	141.53	121.15
5	7-G	328	THR	CA-C-N	11.02	141.53	121.15
5	7-G	328	THR	C-N-CA	11.02	141.53	121.15
5	8-G	328	THR	CA-C-N	11.02	141.53	121.15
5	8-G	328	THR	C-N-CA	11.02	141.53	121.15
2	1-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	1-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	1-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	1-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	1-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	1-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	2-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	2-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	1-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	2-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	2-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	2-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	2-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	3-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	3-C	382	ASN	C-N-CA	11.01	142.57	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-C	382	ASN	CA-C-N	11.01	142.57	121.54
4	2-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	3-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	3-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	3-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	3-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	4-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	4-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	3-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	4-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	4-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	4-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	4-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	5-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	5-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	4-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	5-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	5-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	5-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	5-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	6-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	5-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	6-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	6-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	6-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	6-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	7-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	7-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	6-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	7-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	7-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	7-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	7-O	382	ASN	C-N-CA	11.01	142.57	121.54
2	8-C	382	ASN	CA-C-N	11.01	142.57	121.54
2	8-C	382	ASN	C-N-CA	11.01	142.57	121.54
4	7-R	465	GLN	CA-C-O	-11.01	108.96	121.07
4	8-L	421	LEU	N-CA-C	-11.01	97.59	111.02
4	8-L	465	GLN	CA-C-O	-11.01	108.96	121.07
2	8-O	382	ASN	CA-C-N	11.01	142.57	121.54
2	8-O	382	ASN	C-N-CA	11.01	142.57	121.54
4	8-R	465	GLN	CA-C-O	-11.01	108.96	121.07
2	1-I	382	ASN	CA-C-N	11.01	142.56	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	2-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	2-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	3-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	3-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	4-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	4-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	5-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	5-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	6-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	6-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	7-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	7-I	382	ASN	C-N-CA	11.01	142.56	121.54
2	8-I	382	ASN	CA-C-N	11.01	142.56	121.54
2	8-I	382	ASN	C-N-CA	11.01	142.56	121.54
5	1-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	2-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	3-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	4-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	5-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	6-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	7-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	8-Y	322	ALA	CA-C-O	-11.00	108.89	120.55
5	1-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	1-R	421	LEU	N-CA-C	-11.00	97.60	111.02
4	1-X	465	GLN	CA-C-O	-11.00	108.97	121.07
4	2-X	465	GLN	CA-C-O	-11.00	108.97	121.07
4	3-X	465	GLN	CA-C-O	-11.00	108.97	121.07
4	8-X	465	GLN	CA-C-O	-11.00	108.97	121.07
5	1-S	322	ALA	CA-C-O	-11.00	108.89	120.55
5	2-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	2-R	421	LEU	N-CA-C	-11.00	97.60	111.02
4	7-X	465	GLN	CA-C-O	-11.00	108.97	121.07
5	2-S	322	ALA	CA-C-O	-11.00	108.89	120.55
5	3-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	3-R	421	LEU	N-CA-C	-11.00	97.60	111.02
4	6-X	465	GLN	CA-C-O	-11.00	108.97	121.07
5	3-S	322	ALA	CA-C-O	-11.00	108.89	120.55
5	4-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	4-R	421	LEU	N-CA-C	-11.00	97.60	111.02
4	4-X	465	GLN	CA-C-O	-11.00	108.97	121.07
5	4-S	322	ALA	CA-C-O	-11.00	108.89	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	5-R	421	LEU	N-CA-C	-11.00	97.60	111.02
4	5-X	465	GLN	CA-C-O	-11.00	108.97	121.07
5	5-S	322	ALA	CA-C-O	-11.00	108.89	120.55
5	6-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	6-R	421	LEU	N-CA-C	-11.00	97.60	111.02
5	6-S	322	ALA	CA-C-O	-11.00	108.89	120.55
5	7-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	7-R	421	LEU	N-CA-C	-11.00	97.60	111.02
5	7-S	322	ALA	CA-C-O	-11.00	108.89	120.55
5	8-G	322	ALA	CA-C-O	-11.00	108.89	120.55
4	8-R	421	LEU	N-CA-C	-11.00	97.60	111.02
5	8-S	322	ALA	CA-C-O	-11.00	108.89	120.55
4	1-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	2-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	3-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	4-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	5-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	6-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	7-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	8-F	421	LEU	N-CA-C	-10.99	97.61	111.02
4	1-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	2-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	3-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	4-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	5-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	6-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	7-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	8-X	421	LEU	N-CA-C	-10.99	97.61	111.02
4	1-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	2-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	3-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	4-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	5-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	6-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	7-F	465	GLN	CA-C-O	-10.99	108.98	121.07
4	8-F	465	GLN	CA-C-O	-10.99	108.98	121.07
2	1-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
2	2-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
2	3-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
2	4-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
2	5-I	250	VAL	N-CA-CB	-10.95	92.89	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
2	7-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
2	8-I	250	VAL	N-CA-CB	-10.95	92.89	111.50
3	1-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	2-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	3-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	4-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	5-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	6-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	7-P	1537	GLN	CA-C-O	10.94	132.01	120.42
3	8-P	1537	GLN	CA-C-O	10.94	132.01	120.42
2	1-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	2-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	3-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	4-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	5-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	6-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	7-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	8-U	250	VAL	N-CA-CB	-10.93	92.91	111.50
2	1-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	1-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	2-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	2-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	3-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	3-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	4-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	4-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	5-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	5-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	6-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	6-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	7-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	7-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	8-C	250	VAL	N-CA-CB	-10.93	92.92	111.50
2	8-O	250	VAL	N-CA-CB	-10.93	92.92	111.50
3	1-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	2-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	3-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	4-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	5-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	6-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	7-J	1537	GLN	CA-C-O	10.92	132.00	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1537	GLN	CA-C-O	10.92	132.00	120.42
3	1-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	1-X	428	LYS	O-C-N	10.92	134.59	122.15
3	2-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	2-X	428	LYS	O-C-N	10.92	134.59	122.15
3	3-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	3-X	428	LYS	O-C-N	10.92	134.59	122.15
3	4-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	4-X	428	LYS	O-C-N	10.92	134.59	122.15
3	5-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	5-X	428	LYS	O-C-N	10.92	134.59	122.15
3	6-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	6-X	428	LYS	O-C-N	10.92	134.59	122.15
3	7-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	7-X	428	LYS	O-C-N	10.92	134.59	122.15
3	8-V	1537	GLN	CA-C-O	10.92	131.99	120.42
4	8-X	428	LYS	O-C-N	10.92	134.59	122.15
4	1-F	428	LYS	O-C-N	10.91	134.59	122.15
4	2-F	428	LYS	O-C-N	10.91	134.59	122.15
4	3-F	428	LYS	O-C-N	10.91	134.59	122.15
4	4-F	428	LYS	O-C-N	10.91	134.59	122.15
4	5-F	428	LYS	O-C-N	10.91	134.59	122.15
4	6-F	428	LYS	O-C-N	10.91	134.59	122.15
4	7-F	428	LYS	O-C-N	10.91	134.59	122.15
4	8-F	428	LYS	O-C-N	10.91	134.59	122.15
2	1-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	2-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	3-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	4-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	5-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	6-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	7-C	7	GLY	CA-C-O	-10.91	101.59	120.57
2	8-C	7	GLY	CA-C-O	-10.91	101.59	120.57
3	1-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	2-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	3-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	4-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	5-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	6-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	7-D	1537	GLN	CA-C-O	10.90	131.98	120.42
3	8-D	1537	GLN	CA-C-O	10.90	131.98	120.42
2	1-I	7	GLY	CA-C-O	-10.90	101.60	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	2-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	2-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	3-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	3-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	4-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	4-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	5-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	5-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	6-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	6-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	7-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	7-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	8-I	7	GLY	CA-C-O	-10.90	101.60	120.57
2	8-U	7	GLY	CA-C-O	-10.90	101.60	120.57
2	1-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	2-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	3-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	4-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	5-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	6-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	7-O	7	GLY	CA-C-O	-10.89	101.62	120.57
2	8-O	7	GLY	CA-C-O	-10.89	101.62	120.57
4	1-R	428	LYS	O-C-N	10.89	134.56	122.15
4	2-R	428	LYS	O-C-N	10.89	134.56	122.15
4	3-R	428	LYS	O-C-N	10.89	134.56	122.15
4	4-R	428	LYS	O-C-N	10.89	134.56	122.15
4	5-R	428	LYS	O-C-N	10.89	134.56	122.15
4	6-R	428	LYS	O-C-N	10.89	134.56	122.15
4	7-R	428	LYS	O-C-N	10.89	134.56	122.15
4	8-R	428	LYS	O-C-N	10.89	134.56	122.15
3	1-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	2-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	3-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	4-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	5-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	6-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	7-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
3	8-D	1503	ILE	CA-C-O	-10.88	109.64	120.95
4	1-L	428	LYS	O-C-N	10.87	134.54	122.15
5	1-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	2-L	428	LYS	O-C-N	10.87	134.54	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	3-L	428	LYS	O-C-N	10.87	134.54	122.15
5	3-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	4-L	428	LYS	O-C-N	10.87	134.54	122.15
5	4-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	5-L	428	LYS	O-C-N	10.87	134.54	122.15
5	5-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	6-L	428	LYS	O-C-N	10.87	134.54	122.15
5	6-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	7-L	428	LYS	O-C-N	10.87	134.54	122.15
5	7-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
4	8-L	428	LYS	O-C-N	10.87	134.54	122.15
5	8-M	385	LEU	CB-CA-C	-10.87	92.75	110.79
3	1-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	2-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	3-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	4-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	5-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	6-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	7-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
3	8-J	1503	ILE	CA-C-O	-10.86	109.66	120.95
4	1-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	1-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	2-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	2-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	3-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	3-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	4-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	4-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	5-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	5-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	6-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	6-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	7-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	7-X	484	ASP	C-N-CA	-10.86	96.12	121.52
4	8-X	484	ASP	CA-C-N	-10.86	96.12	121.52
4	8-X	484	ASP	C-N-CA	-10.86	96.12	121.52
5	1-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
5	2-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
5	3-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
5	4-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
5	5-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
5	7-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
5	8-Y	385	LEU	CB-CA-C	-10.85	92.78	110.79
4	1-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	1-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	1-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	1-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	2-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	2-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	2-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	2-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	3-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	3-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	3-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	3-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	4-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	4-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	4-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	4-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	5-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	5-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	5-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	5-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	6-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	6-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	6-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	6-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	7-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	7-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	7-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	7-L	328	VAL	CA-C-O	-10.85	106.59	120.69
4	8-F	328	VAL	CA-C-O	-10.85	106.59	120.69
4	8-F	484	ASP	CA-C-N	-10.85	96.14	121.52
4	8-F	484	ASP	C-N-CA	-10.85	96.14	121.52
4	8-L	328	VAL	CA-C-O	-10.85	106.59	120.69
5	1-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	1-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	2-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	2-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	3-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	3-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	4-S	385	LEU	CB-CA-C	-10.85	92.78	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	5-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	5-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	6-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	6-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	7-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	7-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	8-S	385	LEU	CB-CA-C	-10.85	92.78	110.79
3	8-V	1503	ILE	CA-C-O	-10.85	109.67	120.95
5	1-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	2-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	3-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	4-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	5-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	6-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	7-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
5	8-G	385	LEU	CB-CA-C	-10.84	92.79	110.79
3	1-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	2-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	3-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	4-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	5-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	6-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	7-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
3	8-P	1503	ILE	CA-C-O	-10.84	109.68	120.95
4	1-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	1-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	2-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	2-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	3-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	3-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	4-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	4-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	5-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	5-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	6-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	6-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	7-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	7-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	8-R	484	ASP	CA-C-N	-10.84	96.16	121.52
4	8-R	484	ASP	C-N-CA	-10.84	96.16	121.52
4	1-R	328	VAL	CA-C-O	-10.84	106.60	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	3-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	4-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	5-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	6-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	7-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	8-R	328	VAL	CA-C-O	-10.84	106.60	120.69
4	1-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	1-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	2-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	2-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	3-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	3-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	4-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	4-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	5-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	5-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	6-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	6-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	7-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	7-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	8-L	484	ASP	CA-C-N	-10.83	96.17	121.52
4	8-L	484	ASP	C-N-CA	-10.83	96.17	121.52
4	1-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	2-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	3-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	4-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	5-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	6-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	7-X	328	VAL	CA-C-O	-10.83	106.61	120.69
4	8-X	328	VAL	CA-C-O	-10.83	106.61	120.69
6	1-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	2-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	3-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	4-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	5-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	6-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	7-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	8-Z	405	ASP	O-C-N	10.77	133.23	122.03
6	1-N	405	ASP	O-C-N	10.77	133.23	122.03
6	2-N	405	ASP	O-C-N	10.77	133.23	122.03
6	3-N	405	ASP	O-C-N	10.77	133.23	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	405	ASP	O-C-N	10.77	133.23	122.03
6	5-N	405	ASP	O-C-N	10.77	133.23	122.03
6	6-N	405	ASP	O-C-N	10.77	133.23	122.03
6	7-N	405	ASP	O-C-N	10.77	133.23	122.03
6	8-N	405	ASP	O-C-N	10.77	133.23	122.03
5	1-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	2-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	3-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	4-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	5-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	6-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	7-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	8-M	278	LYS	N-CA-C	-10.76	102.36	114.62
5	1-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	2-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	3-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	4-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	5-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	6-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	7-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	8-S	278	LYS	N-CA-C	-10.75	102.37	114.62
5	1-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	2-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	3-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	4-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	5-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	6-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	7-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	8-Y	278	LYS	N-CA-C	-10.75	102.37	114.62
5	1-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	2-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	3-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	4-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	5-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	6-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	7-G	278	LYS	N-CA-C	-10.73	102.39	114.62
5	8-G	278	LYS	N-CA-C	-10.73	102.39	114.62
6	1-H	405	ASP	O-C-N	10.72	133.18	122.03
6	1-T	405	ASP	O-C-N	10.72	133.18	122.03
6	2-H	405	ASP	O-C-N	10.72	133.18	122.03
6	2-T	405	ASP	O-C-N	10.72	133.18	122.03
6	3-H	405	ASP	O-C-N	10.72	133.18	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-T	405	ASP	O-C-N	10.72	133.18	122.03
6	4-H	405	ASP	O-C-N	10.72	133.18	122.03
6	4-T	405	ASP	O-C-N	10.72	133.18	122.03
6	5-H	405	ASP	O-C-N	10.72	133.18	122.03
6	5-T	405	ASP	O-C-N	10.72	133.18	122.03
6	6-H	405	ASP	O-C-N	10.72	133.18	122.03
6	6-T	405	ASP	O-C-N	10.72	133.18	122.03
6	7-H	405	ASP	O-C-N	10.72	133.18	122.03
6	7-T	405	ASP	O-C-N	10.72	133.18	122.03
6	8-H	405	ASP	O-C-N	10.72	133.18	122.03
6	8-T	405	ASP	O-C-N	10.72	133.18	122.03
4	1-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	2-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	3-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	4-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	5-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	6-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	7-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	8-F	299	ASN	O-C-N	-10.71	109.00	121.32
4	1-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	2-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	3-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	4-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	5-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	6-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	7-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	8-R	299	ASN	O-C-N	-10.70	109.01	121.32
4	1-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	1-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	2-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	2-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	3-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	3-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	4-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	4-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	5-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	5-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	6-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	6-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	7-L	299	ASN	O-C-N	-10.69	109.03	121.32
4	7-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	8-L	299	ASN	O-C-N	-10.69	109.03	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	299	ASN	O-C-N	-10.69	109.03	121.32
4	1-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	2-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	4-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	5-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	6-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	8-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	1-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	1-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	1-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	2-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	2-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	2-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	3-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	7-F	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	3-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	3-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	3-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	4-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	4-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	4-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	5-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	5-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	5-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	6-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	6-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	6-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	7-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	7-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	7-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
3	8-P	1522	LEU	CA-C-N	-10.68	105.97	120.28
3	8-P	1522	LEU	C-N-CA	-10.68	105.97	120.28
4	8-X	487	ASP	CB-CA-C	-10.68	87.79	110.32
4	1-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	2-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	3-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	4-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	5-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	6-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	7-R	490	LEU	CA-C-O	10.67	132.24	119.97
4	8-R	490	LEU	CA-C-O	10.67	132.24	119.97
3	1-J	1487	ASP	CA-C-O	10.67	135.76	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	1-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	1-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	2-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	2-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	2-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	2-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	3-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	3-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	3-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	3-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	4-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	4-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	4-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	4-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	5-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	5-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	5-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	5-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	6-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	6-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	6-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	6-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	7-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	7-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	7-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	7-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	8-J	1487	ASP	CA-C-O	10.67	135.76	120.51
4	8-R	487	ASP	CB-CA-C	-10.67	87.81	110.32
5	8-S	339	TYR	N-CA-CB	10.67	128.18	110.79
4	8-X	490	LEU	CA-C-O	10.67	132.24	119.97
3	1-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	1-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	1-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	2-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	2-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	2-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	3-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	3-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	3-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	4-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	4-D	1522	LEU	C-N-CA	-10.66	105.99	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	5-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	5-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	5-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	6-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	6-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	6-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	7-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	7-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	7-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
3	8-D	1522	LEU	CA-C-N	-10.66	105.99	120.28
3	8-D	1522	LEU	C-N-CA	-10.66	105.99	120.28
4	8-L	487	ASP	CB-CA-C	-10.66	87.82	110.32
5	1-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	2-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	3-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	4-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	5-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	6-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	7-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
5	8-Y	339	TYR	N-CA-CB	10.66	128.16	110.79
3	1-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	1-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	1-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	1-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	1-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	2-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	2-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	2-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	2-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	2-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	3-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	3-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	7-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	3-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	3-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	3-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	4-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	4-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	4-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	4-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	4-V	1522	LEU	C-N-CA	-10.65	106.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	5-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	5-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	5-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	5-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	6-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	6-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	6-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	6-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	6-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	7-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	7-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	7-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	7-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	8-V	1487	ASP	CA-C-O	10.65	135.74	120.51
3	8-V	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	8-J	1516	LEU	CA-C-O	-10.65	109.26	120.55
5	8-M	339	TYR	N-CA-CB	10.65	128.15	110.79
3	8-V	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	1-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	1-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	1-F	397	ARG	CA-C-O	10.65	131.71	120.42
3	1-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
4	2-F	397	ARG	CA-C-O	10.65	131.71	120.42
3	2-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	2-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
3	3-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	3-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
5	1-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	1-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	1-L	424	PRO	O-C-N	10.65	137.01	122.64
4	1-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	2-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	3-F	397	ARG	CA-C-O	10.65	131.71	120.42
3	4-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	4-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
5	2-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	2-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	2-L	424	PRO	O-C-N	10.65	137.01	122.64
4	2-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	3-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	4-F	397	ARG	CA-C-O	10.65	131.71	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	5-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
5	3-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	3-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	3-L	424	PRO	O-C-N	10.65	137.01	122.64
4	3-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	4-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	5-F	397	ARG	CA-C-O	10.65	131.71	120.42
3	6-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	6-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
5	4-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	4-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	4-L	424	PRO	O-C-N	10.65	137.01	122.64
4	4-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	5-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	6-F	397	ARG	CA-C-O	10.65	131.71	120.42
3	7-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	7-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
5	5-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	5-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	5-L	424	PRO	O-C-N	10.65	137.01	122.64
4	5-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	6-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	7-F	397	ARG	CA-C-O	10.65	131.71	120.42
3	8-J	1522	LEU	CA-C-N	-10.65	106.01	120.28
3	8-J	1522	LEU	C-N-CA	-10.65	106.01	120.28
5	6-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	6-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	6-L	424	PRO	O-C-N	10.65	137.01	122.64
4	6-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	7-D	1487	ASP	CA-C-O	10.65	135.74	120.51
4	8-F	397	ARG	CA-C-O	10.65	131.71	120.42
5	7-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	7-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	7-L	424	PRO	O-C-N	10.65	137.01	122.64
4	7-L	490	LEU	CA-C-O	10.65	132.21	119.97
3	8-D	1487	ASP	CA-C-O	10.65	135.74	120.51
5	8-G	339	TYR	N-CA-CB	10.65	128.14	110.79
6	8-H	381	LYS	N-CA-C	-10.65	99.47	111.82
4	8-L	424	PRO	O-C-N	10.65	137.01	122.64
4	8-L	490	LEU	CA-C-O	10.65	132.21	119.97
6	1-Z	381	LYS	N-CA-C	-10.64	99.47	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
6	3-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
6	4-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
6	5-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
6	6-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
6	7-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
6	8-Z	381	LYS	N-CA-C	-10.64	99.47	111.82
4	1-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	2-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	3-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	4-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	5-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	6-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	7-L	397	ARG	CA-C-O	10.64	131.70	120.42
4	8-L	397	ARG	CA-C-O	10.64	131.70	120.42
3	1-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	2-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	3-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	4-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	5-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	6-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	7-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	8-P	1516	LEU	CA-C-O	-10.64	109.27	120.55
3	1-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	2-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	3-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	4-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	5-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	6-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	7-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
3	8-D	1516	LEU	CA-C-O	-10.64	109.28	120.55
6	1-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	2-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	3-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	4-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	5-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	6-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	7-N	381	LYS	N-CA-C	-10.63	99.49	111.82
6	8-N	381	LYS	N-CA-C	-10.63	99.49	111.82
3	1-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	1-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	1-X	424	PRO	O-C-N	10.63	136.99	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	2-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	2-X	424	PRO	O-C-N	10.63	136.99	122.64
3	3-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	3-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	3-X	424	PRO	O-C-N	10.63	136.99	122.64
3	4-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	4-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	4-X	424	PRO	O-C-N	10.63	136.99	122.64
3	5-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	5-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	5-X	424	PRO	O-C-N	10.63	136.99	122.64
3	6-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	6-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	6-X	424	PRO	O-C-N	10.63	136.99	122.64
3	7-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	7-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	7-X	424	PRO	O-C-N	10.63	136.99	122.64
3	8-P	1487	ASP	CA-C-O	10.63	135.71	120.51
3	8-V	1516	LEU	CA-C-O	-10.63	109.29	120.55
4	8-X	424	PRO	O-C-N	10.63	136.99	122.64
4	1-F	424	PRO	O-C-N	10.62	136.98	122.64
4	2-F	424	PRO	O-C-N	10.62	136.98	122.64
4	3-F	424	PRO	O-C-N	10.62	136.98	122.64
4	4-F	424	PRO	O-C-N	10.62	136.98	122.64
4	5-F	424	PRO	O-C-N	10.62	136.98	122.64
4	6-F	424	PRO	O-C-N	10.62	136.98	122.64
4	7-F	424	PRO	O-C-N	10.62	136.98	122.64
4	8-F	424	PRO	O-C-N	10.62	136.98	122.64
4	1-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	1-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	2-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	2-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	3-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	3-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	4-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	4-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	5-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	5-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	6-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	6-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	7-L	301	PRO	CA-C-N	10.62	137.59	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	8-L	301	PRO	CA-C-N	10.62	137.59	120.60
4	8-L	301	PRO	C-N-CA	10.62	137.59	120.60
4	1-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	2-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	3-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	4-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	5-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	6-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	7-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	8-F	490	LEU	CA-C-O	10.62	132.18	119.97
4	1-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	2-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	3-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	4-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	5-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	6-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	7-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	8-X	397	ARG	CA-C-O	10.61	131.67	120.42
4	1-R	424	PRO	O-C-N	10.61	136.96	122.64
4	2-R	424	PRO	O-C-N	10.61	136.96	122.64
4	3-R	424	PRO	O-C-N	10.61	136.96	122.64
4	4-R	424	PRO	O-C-N	10.61	136.96	122.64
4	5-R	424	PRO	O-C-N	10.61	136.96	122.64
4	6-R	424	PRO	O-C-N	10.61	136.96	122.64
4	7-R	424	PRO	O-C-N	10.61	136.96	122.64
4	8-R	424	PRO	O-C-N	10.61	136.96	122.64
4	1-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	1-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	2-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	2-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	3-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	3-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	4-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	4-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	5-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	5-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	6-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	6-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	7-X	301	PRO	CA-C-N	10.60	137.56	120.60
4	7-X	301	PRO	C-N-CA	10.60	137.56	120.60
4	8-X	301	PRO	CA-C-N	10.60	137.56	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	301	PRO	C-N-CA	10.60	137.56	120.60
6	1-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	2-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	3-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	4-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	5-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	6-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	7-T	381	LYS	N-CA-C	-10.60	99.53	111.82
6	8-T	381	LYS	N-CA-C	-10.60	99.53	111.82
4	1-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	2-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	3-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	4-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	5-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	6-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	7-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	8-R	397	ARG	CA-C-O	10.59	131.65	120.42
4	1-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	1-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	2-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	2-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	3-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	3-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	4-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	4-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	5-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	5-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	6-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	6-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	7-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	7-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	8-F	301	PRO	CA-C-N	10.59	137.55	120.60
4	8-F	301	PRO	C-N-CA	10.59	137.55	120.60
4	1-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	1-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	2-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	2-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	3-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	3-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	4-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	4-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	5-R	301	PRO	CA-C-N	10.59	137.54	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	6-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	6-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	7-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	7-R	301	PRO	C-N-CA	10.59	137.54	120.60
4	8-R	301	PRO	CA-C-N	10.59	137.54	120.60
4	8-R	301	PRO	C-N-CA	10.59	137.54	120.60
5	1-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	2-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	3-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	4-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	5-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	6-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	7-Y	342	PRO	N-CA-C	10.54	127.38	113.57
5	8-Y	342	PRO	N-CA-C	10.54	127.38	113.57
3	1-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	1-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	1-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	2-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	2-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	2-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	3-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	3-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	3-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	4-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	4-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	4-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	5-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	5-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	5-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	6-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	6-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	6-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	7-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	7-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	7-L	425	THR	C-N-CA	-10.53	105.34	120.29
3	8-J	1489	HIS	CA-C-O	-10.53	103.26	120.85
4	8-L	425	THR	CA-C-N	-10.53	105.34	120.29
4	8-L	425	THR	C-N-CA	-10.53	105.34	120.29
5	1-S	342	PRO	N-CA-C	10.53	127.36	113.57
5	2-S	342	PRO	N-CA-C	10.53	127.36	113.57
5	3-S	342	PRO	N-CA-C	10.53	127.36	113.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	342	PRO	N-CA-C	10.53	127.36	113.57
5	5-S	342	PRO	N-CA-C	10.53	127.36	113.57
5	6-S	342	PRO	N-CA-C	10.53	127.36	113.57
5	7-S	342	PRO	N-CA-C	10.53	127.36	113.57
5	8-S	342	PRO	N-CA-C	10.53	127.36	113.57
3	1-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	1-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	2-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	2-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	3-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	3-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	4-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	4-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	5-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	5-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	6-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	6-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	7-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	7-M	342	PRO	N-CA-C	10.52	127.36	113.57
3	8-D	1489	HIS	CA-C-O	-10.52	103.27	120.85
5	8-M	342	PRO	N-CA-C	10.52	127.36	113.57
4	1-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	2-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	3-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	4-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	5-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	6-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	7-L	468	LYS	CA-C-O	-10.52	109.27	120.63
4	8-L	468	LYS	CA-C-O	-10.52	109.27	120.63
5	1-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	1-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	1-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	1-X	460	LEU	O-C-N	10.52	134.19	122.20
5	2-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	2-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	2-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	2-X	460	LEU	O-C-N	10.52	134.19	122.20
5	3-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	3-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	3-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	3-X	460	LEU	O-C-N	10.52	134.19	122.20
5	4-G	342	PRO	N-CA-C	10.52	127.35	113.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	4-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	4-X	460	LEU	O-C-N	10.52	134.19	122.20
5	5-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	5-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	5-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	5-X	460	LEU	O-C-N	10.52	134.19	122.20
5	6-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	6-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	6-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	6-X	460	LEU	O-C-N	10.52	134.19	122.20
5	7-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	7-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	7-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	7-X	460	LEU	O-C-N	10.52	134.19	122.20
5	8-G	342	PRO	N-CA-C	10.52	127.35	113.57
6	8-T	473	GLN	CB-CA-C	-10.52	94.37	110.88
3	8-V	1489	HIS	CA-C-O	-10.52	103.29	120.85
4	8-X	460	LEU	O-C-N	10.52	134.19	122.20
4	2-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	5-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	7-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	8-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	1-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	1-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	1-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	1-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	4-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	2-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	2-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	2-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	3-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	3-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	3-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	3-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	4-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	4-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	4-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	6-X	468	LYS	CA-C-O	-10.51	109.28	120.63
4	5-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	5-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	5-S	330	LYS	CB-CA-C	10.51	127.61	110.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	6-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	6-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	7-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	7-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	7-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	8-F	425	THR	CA-C-N	-10.51	105.36	120.29
4	8-F	425	THR	C-N-CA	-10.51	105.36	120.29
5	8-S	330	LYS	CB-CA-C	10.51	127.61	110.37
4	1-R	460	LEU	O-C-N	10.51	134.18	122.20
4	2-R	460	LEU	O-C-N	10.51	134.18	122.20
4	3-R	460	LEU	O-C-N	10.51	134.18	122.20
4	4-R	460	LEU	O-C-N	10.51	134.18	122.20
4	5-R	460	LEU	O-C-N	10.51	134.18	122.20
4	6-R	460	LEU	O-C-N	10.51	134.18	122.20
4	7-R	460	LEU	O-C-N	10.51	134.18	122.20
4	8-R	460	LEU	O-C-N	10.51	134.18	122.20
6	1-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	2-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	3-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	4-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	5-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	6-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	7-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
6	8-Z	473	GLN	CB-CA-C	-10.51	94.38	110.88
3	1-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	2-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	3-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	4-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	5-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	6-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	7-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
3	8-P	1489	HIS	CA-C-O	-10.51	103.30	120.85
6	1-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
6	2-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	1-F	460	LEU	O-C-N	10.50	134.17	122.20
4	1-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	1-X	425	THR	C-N-CA	-10.50	105.38	120.29
6	6-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	2-F	460	LEU	O-C-N	10.50	134.17	122.20
4	2-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	2-X	425	THR	C-N-CA	-10.50	105.38	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	3-F	460	LEU	O-C-N	10.50	134.17	122.20
4	3-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	3-X	425	THR	C-N-CA	-10.50	105.38	120.29
6	4-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	4-F	460	LEU	O-C-N	10.50	134.17	122.20
4	4-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	4-X	425	THR	C-N-CA	-10.50	105.38	120.29
6	5-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	5-F	460	LEU	O-C-N	10.50	134.17	122.20
4	5-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	5-X	425	THR	C-N-CA	-10.50	105.38	120.29
4	6-F	460	LEU	O-C-N	10.50	134.17	122.20
4	6-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	6-X	425	THR	C-N-CA	-10.50	105.38	120.29
6	7-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	7-F	460	LEU	O-C-N	10.50	134.17	122.20
4	7-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	7-X	425	THR	C-N-CA	-10.50	105.38	120.29
6	8-N	473	GLN	CB-CA-C	-10.50	94.39	110.88
4	8-F	460	LEU	O-C-N	10.50	134.17	122.20
4	8-X	425	THR	CA-C-N	-10.50	105.38	120.29
4	8-X	425	THR	C-N-CA	-10.50	105.38	120.29
5	1-G	330	LYS	CB-CA-C	10.49	127.58	110.37
4	1-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	1-R	425	THR	C-N-CA	-10.49	105.39	120.29
5	2-G	330	LYS	CB-CA-C	10.49	127.58	110.37
4	1-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	1-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	2-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	2-R	425	THR	C-N-CA	-10.49	105.39	120.29
5	3-G	330	LYS	CB-CA-C	10.49	127.58	110.37
5	4-G	330	LYS	CB-CA-C	10.49	127.58	110.37
5	7-G	330	LYS	CB-CA-C	10.49	127.58	110.37
4	2-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	2-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	3-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	3-R	425	THR	C-N-CA	-10.49	105.39	120.29
4	3-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	3-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	4-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	4-R	425	THR	C-N-CA	-10.49	105.39	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-G	330	LYS	CB-CA-C	10.49	127.58	110.37
5	6-G	330	LYS	CB-CA-C	10.49	127.58	110.37
5	8-G	330	LYS	CB-CA-C	10.49	127.58	110.37
4	4-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	4-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	5-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	5-R	425	THR	C-N-CA	-10.49	105.39	120.29
4	5-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	5-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	6-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	6-R	425	THR	C-N-CA	-10.49	105.39	120.29
4	6-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	6-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	7-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	7-R	425	THR	C-N-CA	-10.49	105.39	120.29
4	7-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	7-X	342	GLN	C-N-CA	10.49	135.19	120.29
4	8-R	425	THR	CA-C-N	-10.49	105.39	120.29
4	8-R	425	THR	C-N-CA	-10.49	105.39	120.29
4	8-X	342	GLN	CA-C-N	10.49	135.19	120.29
4	8-X	342	GLN	C-N-CA	10.49	135.19	120.29
5	1-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	2-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	3-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	4-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	5-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	6-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	7-M	330	LYS	CB-CA-C	10.49	127.57	110.37
5	8-M	330	LYS	CB-CA-C	10.49	127.57	110.37
6	1-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	2-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	3-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	4-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	5-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	6-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	7-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
6	8-H	473	GLN	CB-CA-C	-10.49	94.41	110.88
4	1-L	460	LEU	O-C-N	10.48	134.15	122.20
5	1-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	2-L	460	LEU	O-C-N	10.48	134.15	122.20
5	2-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	3-L	460	LEU	O-C-N	10.48	134.15	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	4-L	460	LEU	O-C-N	10.48	134.15	122.20
5	4-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	5-L	460	LEU	O-C-N	10.48	134.15	122.20
5	5-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	6-L	460	LEU	O-C-N	10.48	134.15	122.20
5	6-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	7-L	460	LEU	O-C-N	10.48	134.15	122.20
5	7-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	8-L	460	LEU	O-C-N	10.48	134.15	122.20
5	8-Y	330	LYS	CB-CA-C	10.48	127.56	110.37
4	1-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	1-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	2-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	2-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	3-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	3-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	4-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	4-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	5-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	5-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	6-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	6-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	7-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	7-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	8-L	342	GLN	CA-C-N	10.47	135.16	120.29
4	8-L	342	GLN	C-N-CA	10.47	135.16	120.29
4	1-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	2-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	3-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	4-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	5-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	6-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	7-F	468	LYS	CA-C-O	-10.47	109.32	120.63
4	8-F	468	LYS	CA-C-O	-10.47	109.32	120.63
6	1-H	416	GLU	N-CA-C	-10.46	100.36	113.55
6	2-H	416	GLU	N-CA-C	-10.46	100.36	113.55
6	3-H	416	GLU	N-CA-C	-10.46	100.36	113.55
6	4-H	416	GLU	N-CA-C	-10.46	100.36	113.55
6	5-H	416	GLU	N-CA-C	-10.46	100.36	113.55
6	6-H	416	GLU	N-CA-C	-10.46	100.36	113.55
6	7-H	416	GLU	N-CA-C	-10.46	100.36	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	416	GLU	N-CA-C	-10.46	100.36	113.55
4	1-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	2-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	3-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	4-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	5-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	6-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	7-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	8-R	468	LYS	CA-C-O	-10.46	109.33	120.63
4	1-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	1-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	2-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	2-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	3-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	3-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	4-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	4-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	5-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	5-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	6-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	6-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	7-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	7-R	342	GLN	C-N-CA	10.45	135.13	120.29
4	8-R	342	GLN	CA-C-N	10.45	135.13	120.29
4	8-R	342	GLN	C-N-CA	10.45	135.13	120.29
2	1-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	1-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	2-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	2-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	3-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	3-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	4-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	4-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	5-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	5-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	6-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	6-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	7-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	7-I	14	GLU	C-N-CA	10.44	136.17	120.31
2	8-I	14	GLU	CA-C-N	10.44	136.17	120.31
2	8-I	14	GLU	C-N-CA	10.44	136.17	120.31
4	1-F	342	GLN	CA-C-N	10.43	135.11	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	2-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	2-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	3-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	3-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	4-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	4-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	5-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	5-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	6-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	6-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	7-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	7-F	342	GLN	C-N-CA	10.43	135.11	120.29
4	8-F	342	GLN	CA-C-N	10.43	135.11	120.29
4	8-F	342	GLN	C-N-CA	10.43	135.11	120.29
6	1-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	2-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	3-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	4-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	5-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	6-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	7-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	8-T	416	GLU	N-CA-C	-10.43	100.41	113.55
6	1-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	2-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	3-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	4-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	5-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	6-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	7-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	8-Z	416	GLU	N-CA-C	-10.43	100.41	113.55
6	1-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	2-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	3-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	4-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	5-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	6-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	7-N	416	GLU	N-CA-C	-10.42	100.42	113.55
6	8-N	416	GLU	N-CA-C	-10.42	100.42	113.55
2	1-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	1-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	2-O	14	GLU	CA-C-N	10.42	136.15	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	3-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	3-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	4-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	4-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	5-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	5-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	6-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	6-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	7-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	7-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	8-O	14	GLU	CA-C-N	10.42	136.15	120.31
2	8-O	14	GLU	C-N-CA	10.42	136.15	120.31
2	1-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	1-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	2-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	2-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	3-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	3-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	4-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	4-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	5-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	5-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	6-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	6-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	7-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	7-C	14	GLU	C-N-CA	10.41	136.14	120.31
2	8-C	14	GLU	CA-C-N	10.41	136.14	120.31
2	8-C	14	GLU	C-N-CA	10.41	136.14	120.31
3	1-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	1-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	2-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	2-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	3-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	3-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	4-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	4-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	5-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	5-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	6-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	6-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	7-V	1487	ASP	CA-C-N	-10.41	107.00	120.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	8-V	1487	ASP	CA-C-N	-10.41	107.00	120.22
3	8-V	1487	ASP	C-N-CA	-10.41	107.00	120.22
3	1-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	1-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	2-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	2-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	3-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	3-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	4-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	4-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	5-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	5-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	6-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	6-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	7-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	7-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
3	8-P	1487	ASP	CA-C-N	-10.40	107.01	120.22
3	8-P	1487	ASP	C-N-CA	-10.40	107.01	120.22
4	1-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	1-N	408	SER	O-C-N	10.39	133.27	121.32
4	2-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	2-N	408	SER	O-C-N	10.39	133.27	121.32
4	3-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	3-N	408	SER	O-C-N	10.39	133.27	121.32
4	4-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	4-N	408	SER	O-C-N	10.39	133.27	121.32
4	5-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	5-N	408	SER	O-C-N	10.39	133.27	121.32
4	6-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	6-N	408	SER	O-C-N	10.39	133.27	121.32
4	7-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	7-N	408	SER	O-C-N	10.39	133.27	121.32
4	8-L	341	ASP	N-CA-CB	10.39	126.39	110.28
6	8-N	408	SER	O-C-N	10.39	133.27	121.32
6	1-T	408	SER	O-C-N	10.39	133.27	121.32
2	1-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	1-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	2-T	408	SER	O-C-N	10.39	133.27	121.32
2	2-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	2-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	3-T	408	SER	O-C-N	10.39	133.27	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	3-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	4-T	408	SER	O-C-N	10.39	133.27	121.32
2	4-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	4-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	5-T	408	SER	O-C-N	10.39	133.27	121.32
2	5-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	5-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	6-T	408	SER	O-C-N	10.39	133.27	121.32
2	6-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	6-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	7-T	408	SER	O-C-N	10.39	133.27	121.32
2	7-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	7-U	14	GLU	C-N-CA	10.39	136.10	120.31
6	8-T	408	SER	O-C-N	10.39	133.27	121.32
2	8-U	14	GLU	CA-C-N	10.39	136.10	120.31
2	8-U	14	GLU	C-N-CA	10.39	136.10	120.31
3	1-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	1-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	1-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	2-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	2-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	2-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	3-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	3-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	3-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	4-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	4-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	4-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	5-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	5-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	5-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	6-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	6-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	6-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	7-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	7-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	7-F	341	ASP	N-CA-CB	10.39	126.38	110.28
3	8-D	1487	ASP	CA-C-N	-10.39	107.03	120.22
3	8-D	1487	ASP	C-N-CA	-10.39	107.03	120.22
4	8-F	341	ASP	N-CA-CB	10.39	126.38	110.28
6	1-H	410	LEU	CB-CA-C	10.39	132.02	110.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	3-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	4-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	5-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	6-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	7-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	8-H	410	LEU	CB-CA-C	10.39	132.02	110.31
6	1-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	2-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	3-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	4-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	5-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	6-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	7-H	494	LEU	N-CA-C	10.38	132.92	110.80
6	8-H	494	LEU	N-CA-C	10.38	132.92	110.80
3	1-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	1-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	2-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	2-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	3-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	3-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	4-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	4-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	5-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	5-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	6-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	6-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	7-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	7-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
3	8-J	1487	ASP	CA-C-N	-10.38	107.04	120.22
3	8-J	1487	ASP	C-N-CA	-10.38	107.04	120.22
4	1-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	2-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	3-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	4-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	5-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	6-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	7-X	341	ASP	N-CA-CB	10.38	126.36	110.28
4	8-X	341	ASP	N-CA-CB	10.38	126.36	110.28
6	1-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	2-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	3-Z	410	LEU	CB-CA-C	10.37	131.99	110.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	5-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	6-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	7-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	8-Z	410	LEU	CB-CA-C	10.37	131.99	110.31
6	1-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	1-Z	408	SER	O-C-N	10.37	133.25	121.32
6	2-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	2-Z	408	SER	O-C-N	10.37	133.25	121.32
6	3-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	3-Z	408	SER	O-C-N	10.37	133.25	121.32
6	4-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	4-Z	408	SER	O-C-N	10.37	133.25	121.32
6	5-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	5-Z	408	SER	O-C-N	10.37	133.25	121.32
6	6-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	6-Z	408	SER	O-C-N	10.37	133.25	121.32
6	7-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	7-Z	408	SER	O-C-N	10.37	133.25	121.32
6	8-N	410	LEU	CB-CA-C	10.37	131.99	110.31
6	8-Z	408	SER	O-C-N	10.37	133.25	121.32
4	1-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	1-T	408	SER	N-CA-C	10.37	132.72	109.81
4	2-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	2-T	408	SER	N-CA-C	10.37	132.72	109.81
4	3-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	3-T	408	SER	N-CA-C	10.37	132.72	109.81
4	4-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	4-T	408	SER	N-CA-C	10.37	132.72	109.81
4	5-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	5-T	408	SER	N-CA-C	10.37	132.72	109.81
4	6-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	6-T	408	SER	N-CA-C	10.37	132.72	109.81
4	7-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	7-T	408	SER	N-CA-C	10.37	132.72	109.81
4	8-R	341	ASP	N-CA-CB	10.37	126.35	110.28
6	8-T	408	SER	N-CA-C	10.37	132.72	109.81
6	1-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	2-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	3-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	4-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	5-T	410	LEU	CB-CA-C	10.36	131.97	110.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	7-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	8-T	410	LEU	CB-CA-C	10.36	131.97	110.31
6	1-H	408	SER	N-CA-C	10.36	132.71	109.81
6	1-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	2-H	408	SER	N-CA-C	10.36	132.71	109.81
6	2-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	3-H	408	SER	N-CA-C	10.36	132.71	109.81
6	3-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	4-H	408	SER	N-CA-C	10.36	132.71	109.81
6	4-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	5-H	408	SER	N-CA-C	10.36	132.71	109.81
6	5-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	6-H	408	SER	N-CA-C	10.36	132.71	109.81
6	6-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	7-H	408	SER	N-CA-C	10.36	132.71	109.81
6	7-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	8-H	408	SER	N-CA-C	10.36	132.71	109.81
6	8-N	494	LEU	N-CA-C	10.36	132.87	110.80
6	1-H	408	SER	O-C-N	10.36	133.23	121.32
6	1-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	2-H	408	SER	O-C-N	10.36	133.23	121.32
6	2-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	3-H	408	SER	O-C-N	10.36	133.23	121.32
6	3-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	4-H	408	SER	O-C-N	10.36	133.23	121.32
6	4-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	5-H	408	SER	O-C-N	10.36	133.23	121.32
6	5-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	6-H	408	SER	O-C-N	10.36	133.23	121.32
6	6-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	7-H	408	SER	O-C-N	10.36	133.23	121.32
6	7-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	8-H	408	SER	O-C-N	10.36	133.23	121.32
6	8-T	494	LEU	N-CA-C	10.36	132.86	110.80
6	1-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	2-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	3-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	4-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	5-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	6-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	7-Z	494	LEU	N-CA-C	10.36	132.86	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	494	LEU	N-CA-C	10.36	132.86	110.80
6	1-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	2-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	3-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	4-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	5-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	6-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	7-Z	408	SER	N-CA-C	10.34	132.67	109.81
6	8-Z	408	SER	N-CA-C	10.34	132.67	109.81
3	1-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	2-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	3-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	4-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	5-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	6-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	7-J	1538	SER	CA-C-O	-10.33	107.00	119.49
3	8-J	1538	SER	CA-C-O	-10.33	107.00	119.49
6	1-N	408	SER	N-CA-C	10.32	132.63	109.81
3	1-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	2-N	408	SER	N-CA-C	10.32	132.63	109.81
3	2-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	3-N	408	SER	N-CA-C	10.32	132.63	109.81
3	3-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	4-N	408	SER	N-CA-C	10.32	132.63	109.81
3	4-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	5-N	408	SER	N-CA-C	10.32	132.63	109.81
3	5-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	6-N	408	SER	N-CA-C	10.32	132.63	109.81
3	6-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	7-N	408	SER	N-CA-C	10.32	132.63	109.81
3	7-V	1538	SER	CA-C-O	-10.32	107.00	119.49
6	8-N	408	SER	N-CA-C	10.32	132.63	109.81
3	8-V	1538	SER	CA-C-O	-10.32	107.00	119.49
3	1-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	2-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	3-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	4-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	5-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	6-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	7-D	1538	SER	CA-C-O	-10.32	107.00	119.49
3	8-D	1538	SER	CA-C-O	-10.32	107.00	119.49
5	1-M	378	SER	CA-C-O	-10.29	105.79	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	3-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	4-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	5-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	6-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	7-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	8-M	378	SER	CA-C-O	-10.29	105.79	120.51
5	1-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	2-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	3-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	4-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	5-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	6-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	7-G	378	SER	CA-C-O	-10.29	105.79	120.51
5	8-G	378	SER	CA-C-O	-10.29	105.79	120.51
6	1-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	2-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	3-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	4-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	5-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	6-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	7-H	416	GLU	N-CA-CB	10.29	125.32	110.40
6	8-H	416	GLU	N-CA-CB	10.29	125.32	110.40
5	1-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	2-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	3-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	4-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	5-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	6-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	7-S	378	SER	CA-C-O	-10.29	105.80	120.51
5	8-S	378	SER	CA-C-O	-10.29	105.80	120.51
3	1-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	2-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	3-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	4-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	5-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	6-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	7-P	1538	SER	CA-C-O	-10.29	107.04	119.49
3	8-P	1538	SER	CA-C-O	-10.29	107.04	119.49
6	1-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
6	2-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
6	3-Z	416	GLU	N-CA-CB	10.28	125.31	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
6	5-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
6	6-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
6	7-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
6	8-Z	416	GLU	N-CA-CB	10.28	125.31	110.40
5	1-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	2-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	3-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	4-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	5-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	6-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	7-Y	378	SER	CA-C-O	-10.28	105.81	120.51
5	8-Y	378	SER	CA-C-O	-10.28	105.81	120.51
3	1-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	1-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	2-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	2-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	3-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	3-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	4-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	4-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	5-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	5-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	6-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	6-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	7-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	7-V	1449	TRP	C-N-CA	10.28	141.17	121.54
3	8-V	1449	TRP	CA-C-N	10.28	141.17	121.54
3	8-V	1449	TRP	C-N-CA	10.28	141.17	121.54
6	1-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	1-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	2-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	2-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	3-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	3-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	4-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	4-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	5-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	5-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	6-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	6-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	7-N	477	ILE	N-CA-C	-10.28	100.34	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	8-N	477	ILE	N-CA-C	-10.28	100.34	110.72
6	8-T	416	GLU	N-CA-CB	10.28	125.30	110.40
6	1-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	2-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	3-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	4-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	5-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	6-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	7-H	477	ILE	N-CA-C	-10.27	100.34	110.72
6	8-H	477	ILE	N-CA-C	-10.27	100.34	110.72
3	1-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	1-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	2-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	2-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	3-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	3-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	4-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	4-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	5-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	5-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	6-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	6-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	7-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	7-J	1449	TRP	C-N-CA	10.27	141.15	121.54
3	8-J	1449	TRP	CA-C-N	10.27	141.15	121.54
3	8-J	1449	TRP	C-N-CA	10.27	141.15	121.54
6	1-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	1-U	454	THR	CA-C-N	10.27	140.18	121.70
2	1-U	454	THR	C-N-CA	10.27	140.18	121.70
6	2-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	2-U	454	THR	CA-C-N	10.27	140.18	121.70
2	2-U	454	THR	C-N-CA	10.27	140.18	121.70
6	3-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	3-U	454	THR	CA-C-N	10.27	140.18	121.70
2	3-U	454	THR	C-N-CA	10.27	140.18	121.70
6	4-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	4-U	454	THR	CA-C-N	10.27	140.18	121.70
2	4-U	454	THR	C-N-CA	10.27	140.18	121.70
6	5-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	5-U	454	THR	CA-C-N	10.27	140.18	121.70
2	5-U	454	THR	C-N-CA	10.27	140.18	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	6-U	454	THR	CA-C-N	10.27	140.18	121.70
2	6-U	454	THR	C-N-CA	10.27	140.18	121.70
6	7-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	7-U	454	THR	CA-C-N	10.27	140.18	121.70
2	7-U	454	THR	C-N-CA	10.27	140.18	121.70
6	8-N	416	GLU	N-CA-CB	10.27	125.29	110.40
2	8-U	454	THR	CA-C-N	10.27	140.18	121.70
2	8-U	454	THR	C-N-CA	10.27	140.18	121.70
3	1-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	1-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	1-I	454	THR	CA-C-N	10.26	140.17	121.70
2	1-I	454	THR	C-N-CA	10.26	140.17	121.70
3	2-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	2-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	2-I	454	THR	CA-C-N	10.26	140.17	121.70
2	2-I	454	THR	C-N-CA	10.26	140.17	121.70
3	3-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	3-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	3-I	454	THR	CA-C-N	10.26	140.17	121.70
2	3-I	454	THR	C-N-CA	10.26	140.17	121.70
3	4-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	4-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	4-I	454	THR	CA-C-N	10.26	140.17	121.70
2	4-I	454	THR	C-N-CA	10.26	140.17	121.70
3	5-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	5-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	5-I	454	THR	CA-C-N	10.26	140.17	121.70
2	5-I	454	THR	C-N-CA	10.26	140.17	121.70
3	6-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	6-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	6-I	454	THR	CA-C-N	10.26	140.17	121.70
2	6-I	454	THR	C-N-CA	10.26	140.17	121.70
3	7-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	7-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	7-I	454	THR	CA-C-N	10.26	140.17	121.70
2	7-I	454	THR	C-N-CA	10.26	140.17	121.70
3	8-D	1449	TRP	CA-C-N	10.26	141.14	121.54
3	8-D	1449	TRP	C-N-CA	10.26	141.14	121.54
2	8-I	454	THR	CA-C-N	10.26	140.17	121.70
2	8-I	454	THR	C-N-CA	10.26	140.17	121.70
3	1-P	1449	TRP	CA-C-N	10.26	141.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	2-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	2-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	3-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	3-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	4-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	4-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	5-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	5-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	6-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	6-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	7-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	7-P	1449	TRP	C-N-CA	10.26	141.14	121.54
3	8-P	1449	TRP	CA-C-N	10.26	141.14	121.54
3	8-P	1449	TRP	C-N-CA	10.26	141.14	121.54
6	1-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	2-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	3-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	4-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	5-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	6-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	7-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
6	8-Z	477	ILE	N-CA-C	-10.26	100.36	110.72
3	1-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	2-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	3-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	4-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	5-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	6-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	7-J	1512	TRP	O-C-N	10.26	133.84	122.15
3	8-J	1512	TRP	O-C-N	10.26	133.84	122.15
6	1-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	2-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	3-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	4-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	5-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	6-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	7-T	477	ILE	N-CA-C	-10.25	100.37	110.72
6	8-T	477	ILE	N-CA-C	-10.25	100.37	110.72
2	1-O	454	THR	CA-C-N	10.25	140.15	121.70
2	1-O	454	THR	C-N-CA	10.25	140.15	121.70
2	2-O	454	THR	CA-C-N	10.25	140.15	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-O	454	THR	C-N-CA	10.25	140.15	121.70
2	3-O	454	THR	CA-C-N	10.25	140.15	121.70
2	3-O	454	THR	C-N-CA	10.25	140.15	121.70
2	4-O	454	THR	CA-C-N	10.25	140.15	121.70
2	4-O	454	THR	C-N-CA	10.25	140.15	121.70
2	5-O	454	THR	CA-C-N	10.25	140.15	121.70
2	5-O	454	THR	C-N-CA	10.25	140.15	121.70
2	6-O	454	THR	CA-C-N	10.25	140.15	121.70
2	6-O	454	THR	C-N-CA	10.25	140.15	121.70
2	7-O	454	THR	CA-C-N	10.25	140.15	121.70
2	7-O	454	THR	C-N-CA	10.25	140.15	121.70
2	8-O	454	THR	CA-C-N	10.25	140.15	121.70
2	8-O	454	THR	C-N-CA	10.25	140.15	121.70
4	1-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	2-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	3-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	4-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	5-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	6-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	7-X	493	HIS	CA-C-O	-10.25	103.38	120.80
4	8-X	493	HIS	CA-C-O	-10.25	103.38	120.80
2	1-C	454	THR	CA-C-N	10.24	140.13	121.70
2	1-C	454	THR	C-N-CA	10.24	140.13	121.70
3	1-P	1512	TRP	O-C-N	10.24	133.82	122.15
2	2-C	454	THR	CA-C-N	10.24	140.13	121.70
2	2-C	454	THR	C-N-CA	10.24	140.13	121.70
3	2-P	1512	TRP	O-C-N	10.24	133.82	122.15
2	3-C	454	THR	CA-C-N	10.24	140.13	121.70
2	3-C	454	THR	C-N-CA	10.24	140.13	121.70
3	3-P	1512	TRP	O-C-N	10.24	133.82	122.15
2	4-C	454	THR	CA-C-N	10.24	140.13	121.70
2	4-C	454	THR	C-N-CA	10.24	140.13	121.70
3	4-P	1512	TRP	O-C-N	10.24	133.82	122.15
2	5-C	454	THR	CA-C-N	10.24	140.13	121.70
2	5-C	454	THR	C-N-CA	10.24	140.13	121.70
3	5-P	1512	TRP	O-C-N	10.24	133.82	122.15
2	6-C	454	THR	CA-C-N	10.24	140.13	121.70
2	6-C	454	THR	C-N-CA	10.24	140.13	121.70
3	6-P	1512	TRP	O-C-N	10.24	133.82	122.15
2	7-C	454	THR	CA-C-N	10.24	140.13	121.70
2	7-C	454	THR	C-N-CA	10.24	140.13	121.70
3	7-P	1512	TRP	O-C-N	10.24	133.82	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-C	454	THR	CA-C-N	10.24	140.13	121.70
2	8-C	454	THR	C-N-CA	10.24	140.13	121.70
3	8-P	1512	TRP	O-C-N	10.24	133.82	122.15
3	1-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	1-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	2-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	2-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	3-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	3-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	4-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	4-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	5-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	5-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	6-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	6-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	7-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	7-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	8-V	1540	LEU	CA-C-N	-10.24	107.30	120.09
3	8-V	1540	LEU	C-N-CA	-10.24	107.30	120.09
3	1-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	2-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	3-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	4-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	5-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	6-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	7-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	8-P	1487	ASP	N-CA-C	10.23	132.59	110.80
3	1-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	2-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	3-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	4-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	5-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	6-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	7-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	8-V	1487	ASP	N-CA-C	10.22	132.58	110.80
3	1-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	1-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	2-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	2-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	3-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	3-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	4-D	1512	TRP	O-C-N	10.22	133.80	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	5-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	5-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	6-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	6-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	7-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	7-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	8-D	1512	TRP	O-C-N	10.22	133.80	122.15
4	8-F	305	ASP	N-CA-CB	10.22	126.67	110.01
3	1-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	1-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	2-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	2-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	3-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	3-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	4-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	4-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	5-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	5-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	6-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	6-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	7-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	7-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
3	8-P	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	8-P	1540	LEU	C-N-CA	-10.22	107.31	120.09
4	1-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	2-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	3-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	4-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	5-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	6-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	7-R	305	ASP	N-CA-CB	10.21	126.66	110.01
4	8-R	305	ASP	N-CA-CB	10.21	126.66	110.01
3	1-J	1487	ASP	N-CA-C	10.21	132.55	110.80
4	1-X	305	ASP	N-CA-CB	10.21	126.66	110.01
3	1-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	1-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	2-J	1487	ASP	N-CA-C	10.21	132.55	110.80
4	2-X	305	ASP	N-CA-CB	10.21	126.66	110.01
3	3-J	1487	ASP	N-CA-C	10.21	132.55	110.80
4	3-X	305	ASP	N-CA-CB	10.21	126.66	110.01
3	4-J	1487	ASP	N-CA-C	10.21	132.55	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-J	1487	ASP	N-CA-C	10.21	132.55	110.80
4	7-X	305	ASP	N-CA-CB	10.21	126.66	110.01
3	1-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	2-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	2-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	5-J	1487	ASP	N-CA-C	10.21	132.55	110.80
3	2-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	3-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	3-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	3-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	4-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	4-L	305	ASP	N-CA-CB	10.21	126.65	110.01
4	4-X	305	ASP	N-CA-CB	10.21	126.66	110.01
4	5-X	305	ASP	N-CA-CB	10.21	126.66	110.01
4	6-X	305	ASP	N-CA-CB	10.21	126.66	110.01
3	7-J	1487	ASP	N-CA-C	10.21	132.55	110.80
4	8-X	305	ASP	N-CA-CB	10.21	126.66	110.01
3	4-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	5-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	5-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	5-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	6-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	6-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	6-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	7-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	7-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	8-J	1487	ASP	N-CA-C	10.21	132.55	110.80
3	7-V	1512	TRP	O-C-N	10.21	133.79	122.15
3	8-D	1487	ASP	N-CA-C	10.21	132.55	110.80
4	8-L	305	ASP	N-CA-CB	10.21	126.65	110.01
3	8-V	1512	TRP	O-C-N	10.21	133.79	122.15
4	1-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	2-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	3-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	4-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	5-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	6-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	7-R	493	HIS	CA-C-O	-10.21	103.44	120.80
4	8-R	493	HIS	CA-C-O	-10.21	103.44	120.80
3	1-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	1-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	2-D	1540	LEU	CA-C-N	-10.21	107.33	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	3-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	3-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	4-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	4-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	5-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	5-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	6-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	6-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	7-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	7-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	8-D	1540	LEU	CA-C-N	-10.21	107.33	120.09
3	8-D	1540	LEU	C-N-CA	-10.21	107.33	120.09
3	1-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	1-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	2-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	2-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	3-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	3-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	4-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	4-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	5-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	5-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	6-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	6-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	7-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	7-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
3	8-J	1540	LEU	CA-C-N	-10.19	107.35	120.09
3	8-J	1540	LEU	C-N-CA	-10.19	107.35	120.09
5	1-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	1-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	1-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	1-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	1-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	1-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	2-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	2-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	2-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	2-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	2-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	2-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	3-G	326	LEU	CA-C-N	-10.17	102.12	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	3-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	3-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	3-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	3-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	4-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	4-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	4-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	4-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	4-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	4-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	5-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	5-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	5-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	5-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	5-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	5-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	6-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	6-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	6-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	6-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	6-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	6-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	7-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	7-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	7-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	7-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	7-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	7-T	365	LEU	C-N-CA	10.17	133.37	120.56
5	8-G	326	LEU	CA-C-N	-10.17	102.12	121.54
5	8-G	326	LEU	C-N-CA	-10.17	102.12	121.54
5	8-G	335	LEU	O-C-N	-10.17	109.06	122.59
5	8-M	335	LEU	O-C-N	-10.17	109.07	122.59
6	8-T	365	LEU	CA-C-N	10.17	133.37	120.56
6	8-T	365	LEU	C-N-CA	10.17	133.37	120.56
4	1-L	493	HIS	CA-C-O	-10.17	103.51	120.80
4	2-L	493	HIS	CA-C-O	-10.17	103.51	120.80
4	3-L	493	HIS	CA-C-O	-10.17	103.51	120.80
4	4-L	493	HIS	CA-C-O	-10.17	103.51	120.80
4	5-L	493	HIS	CA-C-O	-10.17	103.51	120.80
4	6-L	493	HIS	CA-C-O	-10.17	103.51	120.80
4	7-L	493	HIS	CA-C-O	-10.17	103.51	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	493	HIS	CA-C-O	-10.17	103.51	120.80
3	1-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	1-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	1-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	1-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	2-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	2-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	2-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	2-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	3-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	3-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	3-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	3-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	4-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	4-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	4-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	4-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	5-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	5-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	5-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	5-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	6-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	6-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	6-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	6-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	7-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	7-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	7-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	7-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
3	8-J	1518	ASN	CA-C-N	-10.16	102.12	121.54
3	8-J	1518	ASN	C-N-CA	-10.16	102.12	121.54
5	8-Y	326	LEU	CA-C-N	-10.16	102.13	121.54
5	8-Y	326	LEU	C-N-CA	-10.16	102.13	121.54
5	1-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	2-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	3-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	4-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	5-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	6-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	7-S	335	LEU	O-C-N	-10.16	109.07	122.59
5	8-S	335	LEU	O-C-N	-10.16	109.07	122.59
3	1-V	1518	ASN	CA-C-N	-10.16	102.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	2-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	2-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	3-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	3-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	4-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	4-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	5-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	5-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	6-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	6-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	7-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	7-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
3	8-V	1518	ASN	CA-C-N	-10.16	102.14	121.54
3	8-V	1518	ASN	C-N-CA	-10.16	102.14	121.54
6	1-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	1-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	2-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	2-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	3-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	3-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	4-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	4-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	5-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	5-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	6-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	6-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	7-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	7-Z	365	LEU	C-N-CA	10.15	133.35	120.56
6	8-Z	365	LEU	CA-C-N	10.15	133.35	120.56
6	8-Z	365	LEU	C-N-CA	10.15	133.35	120.56
4	1-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	1-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	1-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	1-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	1-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	2-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	2-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	2-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	2-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	2-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	3-F	493	HIS	CA-C-O	-10.15	103.54	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	3-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	3-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	3-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	4-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	4-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	4-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	4-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	4-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	5-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	5-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	5-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	5-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	5-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	6-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	6-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	6-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	6-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	6-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	7-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	7-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	7-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	7-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	7-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	8-F	493	HIS	CA-C-O	-10.15	103.54	120.80
5	8-M	326	LEU	CA-C-N	-10.15	102.15	121.54
5	8-M	326	LEU	C-N-CA	-10.15	102.15	121.54
3	8-P	1518	ASN	CA-C-N	-10.15	102.15	121.54
3	8-P	1518	ASN	C-N-CA	-10.15	102.15	121.54
5	1-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	1-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	2-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	2-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	3-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	3-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	4-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	4-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	5-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	5-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	6-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	6-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	7-S	326	LEU	CA-C-N	-10.14	102.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	8-S	326	LEU	CA-C-N	-10.14	102.17	121.54
5	8-S	326	LEU	C-N-CA	-10.14	102.17	121.54
5	1-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	2-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	3-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	4-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	5-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	6-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	7-Y	335	LEU	O-C-N	-10.14	109.10	122.59
5	8-Y	335	LEU	O-C-N	-10.14	109.10	122.59
6	1-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	1-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	2-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	2-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	3-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	3-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	4-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	4-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	5-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	5-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	6-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	6-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	7-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	7-N	365	LEU	C-N-CA	10.14	133.34	120.56
6	8-N	365	LEU	CA-C-N	10.14	133.34	120.56
6	8-N	365	LEU	C-N-CA	10.14	133.34	120.56
2	1-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	1-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	1-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	2-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	2-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	2-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	3-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	3-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	3-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	4-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	4-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	4-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	5-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	5-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	5-D	1518	ASN	C-N-CA	-10.13	102.19	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	6-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	6-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	7-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	7-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	7-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	8-C	15	GLN	N-CA-CB	10.13	125.98	110.28
3	8-D	1518	ASN	CA-C-N	-10.13	102.19	121.54
3	8-D	1518	ASN	C-N-CA	-10.13	102.19	121.54
2	1-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	2-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	3-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	4-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	5-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	6-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	7-I	15	GLN	N-CA-CB	10.11	125.96	110.28
2	8-I	15	GLN	N-CA-CB	10.11	125.96	110.28
6	1-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	1-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	1-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	1-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	2-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	2-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	2-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	2-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	3-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	3-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	3-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	3-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	4-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	4-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	4-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	4-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	5-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	5-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	5-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	5-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	6-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	6-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	6-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	6-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	7-H	365	LEU	CA-C-N	10.11	133.29	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	7-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	7-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	8-H	365	LEU	CA-C-N	10.11	133.29	120.56
6	8-H	365	LEU	C-N-CA	10.11	133.29	120.56
6	8-T	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	8-Z	412	GLU	CB-CA-C	-10.11	92.13	111.03
6	1-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	2-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	3-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	4-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	5-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	6-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	7-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	8-N	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	1-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	2-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	3-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	4-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	5-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	6-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	7-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
6	8-H	412	GLU	CB-CA-C	-10.10	92.14	111.03
2	1-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	2-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	3-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	4-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	5-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	6-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	7-O	15	GLN	N-CA-CB	10.10	125.93	110.28
2	8-O	15	GLN	N-CA-CB	10.10	125.93	110.28
6	1-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	1-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	2-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	2-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	3-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	3-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	4-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	4-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	5-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	5-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	6-N	477	ILE	CB-CA-C	10.10	126.15	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	7-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	7-T	477	ILE	CB-CA-C	10.10	126.15	112.22
6	8-N	477	ILE	CB-CA-C	10.10	126.15	112.22
6	8-T	477	ILE	CB-CA-C	10.10	126.15	112.22
3	1-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	2-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	3-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	4-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	5-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	6-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	7-J	1518	ASN	O-C-N	10.09	132.88	122.08
3	8-J	1518	ASN	O-C-N	10.09	132.88	122.08
6	1-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	1-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	1-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	2-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	2-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	2-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	3-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	3-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	3-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	4-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	4-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	4-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	5-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	5-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	5-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	6-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	6-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	6-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	7-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	7-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	7-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	8-H	477	ILE	CB-CA-C	10.09	126.15	112.22
3	8-P	1514	LEU	N-CA-C	10.09	122.36	111.36
2	8-U	15	GLN	N-CA-CB	10.09	125.92	110.28
6	1-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	1-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	1-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	2-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	2-H	462	GLY	C-N-CA	10.09	145.69	121.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	3-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	3-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	3-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	4-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	4-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	4-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	5-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	5-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	5-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	6-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	6-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	6-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	7-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	7-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	7-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
6	8-H	462	GLY	CA-C-N	10.09	145.69	121.68
6	8-H	462	GLY	C-N-CA	10.09	145.69	121.68
6	8-Z	477	ILE	CB-CA-C	10.09	126.14	112.22
3	1-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	2-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	3-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	4-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	5-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	6-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	7-J	1514	LEU	N-CA-C	10.09	122.35	111.36
3	8-J	1514	LEU	N-CA-C	10.09	122.35	111.36
6	1-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	1-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	1-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	1-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	2-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	2-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	2-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	2-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	3-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	3-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	3-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	3-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	4-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	4-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	4-Z	462	GLY	CA-C-N	10.08	145.68	121.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	5-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	5-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	5-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	5-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	6-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	6-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	6-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	6-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	7-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	7-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	7-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	7-Z	462	GLY	C-N-CA	10.08	145.68	121.68
6	8-T	462	GLY	CA-C-N	10.08	145.68	121.68
6	8-T	462	GLY	C-N-CA	10.08	145.68	121.68
6	8-Z	462	GLY	CA-C-N	10.08	145.68	121.68
6	8-Z	462	GLY	C-N-CA	10.08	145.68	121.68
3	1-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	2-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	3-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	4-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	5-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	6-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	7-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	8-V	1514	LEU	N-CA-C	10.08	122.34	111.36
3	1-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	2-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	3-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	4-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	5-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	6-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	7-D	1514	LEU	N-CA-C	10.07	122.34	111.36
3	8-D	1514	LEU	N-CA-C	10.07	122.34	111.36
6	1-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	1-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	2-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	2-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	3-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	3-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	4-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	4-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	5-N	462	GLY	CA-C-N	10.07	145.64	121.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	6-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	6-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	7-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	7-N	462	GLY	C-N-CA	10.07	145.64	121.68
6	8-N	462	GLY	CA-C-N	10.07	145.64	121.68
6	8-N	462	GLY	C-N-CA	10.07	145.64	121.68
3	1-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	2-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	3-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	4-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	5-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	6-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	7-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	8-P	1518	ASN	O-C-N	10.05	132.83	122.08
3	1-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	2-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	3-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	4-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	5-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	6-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	7-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	8-D	1516	LEU	O-C-N	10.04	132.77	122.12
3	1-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	1-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	2-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	2-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	3-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	3-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	4-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	4-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	5-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	5-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	6-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	6-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	7-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	7-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	8-D	1518	ASN	O-C-N	10.04	132.82	122.08
3	8-J	1516	LEU	O-C-N	10.04	132.76	122.12
3	1-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	2-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	3-J	1506	VAL	N-CA-C	10.04	120.86	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	5-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	6-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	7-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	8-J	1506	VAL	N-CA-C	10.04	120.86	110.72
3	1-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	2-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	3-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	4-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	5-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	6-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	7-P	1506	VAL	N-CA-C	10.02	120.84	110.72
3	8-P	1506	VAL	N-CA-C	10.02	120.84	110.72
4	1-F	425	THR	O-C-N	10.02	136.59	122.36
4	1-R	425	THR	O-C-N	10.02	136.59	122.36
3	1-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	2-F	425	THR	O-C-N	10.02	136.59	122.36
4	2-R	425	THR	O-C-N	10.02	136.59	122.36
3	2-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	3-F	425	THR	O-C-N	10.02	136.59	122.36
4	3-R	425	THR	O-C-N	10.02	136.59	122.36
3	3-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	4-F	425	THR	O-C-N	10.02	136.59	122.36
4	4-R	425	THR	O-C-N	10.02	136.59	122.36
3	4-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	5-F	425	THR	O-C-N	10.02	136.59	122.36
4	5-R	425	THR	O-C-N	10.02	136.59	122.36
3	5-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	6-F	425	THR	O-C-N	10.02	136.59	122.36
4	6-R	425	THR	O-C-N	10.02	136.59	122.36
3	6-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	7-F	425	THR	O-C-N	10.02	136.59	122.36
4	7-R	425	THR	O-C-N	10.02	136.59	122.36
3	7-V	1518	ASN	O-C-N	10.02	132.80	122.08
4	8-F	425	THR	O-C-N	10.02	136.59	122.36
4	8-R	425	THR	O-C-N	10.02	136.59	122.36
3	8-V	1518	ASN	O-C-N	10.02	132.80	122.08
3	1-D	1506	VAL	N-CA-C	10.02	120.83	110.72
3	2-D	1506	VAL	N-CA-C	10.02	120.83	110.72
3	3-D	1506	VAL	N-CA-C	10.02	120.83	110.72
3	4-D	1506	VAL	N-CA-C	10.02	120.83	110.72
3	5-D	1506	VAL	N-CA-C	10.02	120.83	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-D	1506	VAL	N-CA-C	10.02	120.83	110.72
3	7-D	1506	VAL	N-CA-C	10.02	120.83	110.72
3	8-D	1506	VAL	N-CA-C	10.02	120.83	110.72
4	1-L	425	THR	O-C-N	10.01	136.58	122.36
3	1-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	2-L	425	THR	O-C-N	10.01	136.58	122.36
3	2-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	3-L	425	THR	O-C-N	10.01	136.58	122.36
3	3-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	4-L	425	THR	O-C-N	10.01	136.58	122.36
3	4-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	5-L	425	THR	O-C-N	10.01	136.58	122.36
3	5-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	6-L	425	THR	O-C-N	10.01	136.58	122.36
3	6-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	7-L	425	THR	O-C-N	10.01	136.58	122.36
3	7-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	8-L	425	THR	O-C-N	10.01	136.58	122.36
3	8-P	1516	LEU	O-C-N	10.01	132.74	122.12
4	1-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	2-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	3-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	4-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	5-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	6-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	7-F	491	VAL	CA-C-O	10.01	132.64	119.53
4	8-F	491	VAL	CA-C-O	10.01	132.64	119.53
5	1-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	2-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	3-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	4-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	5-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	6-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	7-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	8-Y	274	ARG	O-C-N	-10.00	111.52	122.12
5	1-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	1-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	1-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	1-X	425	THR	O-C-N	10.00	136.56	122.36
5	2-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	2-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	2-V	1506	VAL	N-CA-C	10.00	120.82	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	425	THR	O-C-N	10.00	136.56	122.36
5	3-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	3-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	3-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	3-X	425	THR	O-C-N	10.00	136.56	122.36
5	4-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	4-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	4-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	4-X	425	THR	O-C-N	10.00	136.56	122.36
5	5-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	5-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	5-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	5-X	425	THR	O-C-N	10.00	136.56	122.36
5	6-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	6-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	6-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	6-X	425	THR	O-C-N	10.00	136.56	122.36
5	7-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	7-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	7-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	7-X	425	THR	O-C-N	10.00	136.56	122.36
5	8-S	342	PRO	CA-C-N	-10.00	102.44	121.54
5	8-S	342	PRO	C-N-CA	-10.00	102.44	121.54
3	8-V	1506	VAL	N-CA-C	10.00	120.82	110.72
4	8-X	425	THR	O-C-N	10.00	136.56	122.36
5	1-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	1-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	2-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	2-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	3-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	3-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	4-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	4-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	5-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	5-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	6-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	6-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	7-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	7-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	8-Y	342	PRO	CA-C-N	-9.99	102.46	121.54
5	8-Y	342	PRO	C-N-CA	-9.99	102.46	121.54
5	1-M	274	ARG	O-C-N	-9.99	111.53	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	2-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	2-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	3-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	3-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	4-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	4-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	5-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	5-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	6-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	6-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	7-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	7-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	8-M	274	ARG	O-C-N	-9.99	111.53	122.12
4	8-R	491	VAL	CA-C-O	9.99	132.61	119.53
5	1-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	1-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	1-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	1-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	2-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	2-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	2-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	2-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	3-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	3-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	3-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	3-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	4-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	4-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	4-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	4-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	5-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	5-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	5-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	5-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	6-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	6-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	6-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	6-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	7-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	7-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	7-U	308	LEU	CA-C-N	9.99	136.76	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	8-M	342	PRO	CA-C-N	-9.99	102.47	121.54
5	8-M	342	PRO	C-N-CA	-9.99	102.47	121.54
2	8-U	308	LEU	CA-C-N	9.99	136.76	122.08
2	8-U	308	LEU	C-N-CA	9.99	136.76	122.08
5	1-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	2-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	3-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	4-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	5-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	6-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	7-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	8-S	274	ARG	O-C-N	-9.98	111.54	122.12
5	1-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	1-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	2-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	2-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	3-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	3-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	4-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	4-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	5-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	5-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	6-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	6-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	7-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	7-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	8-M	251	ILE	CA-C-N	-9.98	106.66	122.73
5	8-M	251	ILE	C-N-CA	-9.98	106.66	122.73
5	1-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	1-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	2-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	2-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	3-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	3-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	4-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	4-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	5-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	5-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	6-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	6-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	7-Y	251	ILE	CA-C-N	-9.98	106.66	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
5	8-Y	251	ILE	CA-C-N	-9.98	106.66	122.73
5	8-Y	251	ILE	C-N-CA	-9.98	106.66	122.73
4	1-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	2-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	3-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	4-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	5-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	6-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	7-X	491	VAL	CA-C-O	9.97	132.59	119.53
4	8-X	491	VAL	CA-C-O	9.97	132.59	119.53
5	1-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	1-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	1-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	2-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	2-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	2-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	3-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	3-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	3-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	4-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	4-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	4-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	5-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	5-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	5-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	6-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	6-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	6-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	7-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	7-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	7-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	8-G	274	ARG	O-C-N	-9.97	111.55	122.12
5	8-G	342	PRO	CA-C-N	-9.97	102.50	121.54
5	8-G	342	PRO	C-N-CA	-9.97	102.50	121.54
5	1-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	1-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	2-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	2-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	3-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	3-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	4-S	251	ILE	CA-C-N	-9.96	106.69	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	5-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	5-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	6-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	6-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	7-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	7-S	251	ILE	C-N-CA	-9.96	106.69	122.73
5	8-S	251	ILE	CA-C-N	-9.96	106.69	122.73
5	8-S	251	ILE	C-N-CA	-9.96	106.69	122.73
4	1-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	2-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	3-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	4-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	5-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	6-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	7-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	8-R	472	GLU	CA-C-O	-9.96	109.86	120.42
4	1-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	1-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	2-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	2-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	3-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	3-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	4-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	4-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	5-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	5-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	6-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	6-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	7-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	7-V	1516	LEU	O-C-N	9.96	132.68	122.12
4	8-L	491	VAL	CA-C-O	9.96	132.57	119.53
3	8-V	1516	LEU	O-C-N	9.96	132.68	122.12
2	1-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	1-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	2-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	2-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	3-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	3-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	4-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	4-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	5-O	308	LEU	CA-C-N	9.95	136.71	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	6-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	6-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	7-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	7-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	8-O	308	LEU	CA-C-N	9.95	136.71	122.08
2	8-O	308	LEU	C-N-CA	9.95	136.71	122.08
2	1-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	1-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	1-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	2-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	2-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	2-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	3-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	3-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	3-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	4-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	4-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	4-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	5-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	5-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	5-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	6-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	6-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	6-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	7-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	7-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	7-L	482	LYS	N-CA-CB	9.95	124.44	110.01
2	8-I	308	LEU	CA-C-N	9.95	136.70	122.08
2	8-I	308	LEU	C-N-CA	9.95	136.70	122.08
4	8-L	482	LYS	N-CA-CB	9.95	124.44	110.01
4	1-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	2-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	3-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	4-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	5-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	6-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	7-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	8-X	472	GLU	CA-C-O	-9.95	109.88	120.42
4	1-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	2-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	3-L	472	GLU	CA-C-O	-9.94	109.88	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	5-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	6-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	7-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	8-L	472	GLU	CA-C-O	-9.94	109.88	120.42
4	1-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	1-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	2-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	2-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	3-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	3-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	4-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	4-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	5-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	5-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	6-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	6-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	7-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	7-F	482	LYS	N-CA-CB	9.94	124.42	110.01
4	8-F	472	GLU	CA-C-O	-9.94	109.89	120.42
4	8-F	482	LYS	N-CA-CB	9.94	124.42	110.01
3	1-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	2-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	3-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	4-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	5-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	6-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	7-J	1486	CYS	N-CA-C	9.94	122.11	111.28
3	8-J	1486	CYS	N-CA-C	9.94	122.11	111.28
5	1-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	1-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	2-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	2-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	3-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	3-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	4-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	4-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	5-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	5-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	6-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	6-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	7-G	251	ILE	CA-C-N	-9.93	106.74	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-G	251	ILE	C-N-CA	-9.93	106.74	122.73
5	8-G	251	ILE	CA-C-N	-9.93	106.74	122.73
5	8-G	251	ILE	C-N-CA	-9.93	106.74	122.73
2	1-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	1-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	1-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	2-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	2-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	2-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	3-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	3-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	3-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	4-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	4-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	4-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	5-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	5-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	5-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	6-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	6-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	6-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	7-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	7-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	7-R	482	LYS	N-CA-CB	9.93	124.41	110.01
2	8-C	308	LEU	CA-C-N	9.93	136.68	122.08
2	8-C	308	LEU	C-N-CA	9.93	136.68	122.08
4	8-R	482	LYS	N-CA-CB	9.93	124.41	110.01
3	1-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	2-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	3-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	4-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	5-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	6-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	7-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	8-D	1509	GLN	N-CA-C	9.93	122.18	111.36
3	1-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	1-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	1-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	2-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	2-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	2-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	3-J	1509	GLN	N-CA-C	9.92	122.18	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	3-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	4-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	4-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	4-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	5-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	5-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	5-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	6-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	6-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	6-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	7-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	7-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	7-P	1509	GLN	N-CA-C	9.92	122.18	111.36
3	8-J	1509	GLN	N-CA-C	9.92	122.18	111.36
3	8-P	1486	CYS	N-CA-C	9.92	122.10	111.28
3	8-P	1509	GLN	N-CA-C	9.92	122.18	111.36
4	1-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	2-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	3-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	4-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	5-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	6-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	7-X	482	LYS	N-CA-CB	9.92	124.39	110.01
4	8-X	482	LYS	N-CA-CB	9.92	124.39	110.01
3	1-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	2-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	3-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	4-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	5-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	6-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	7-V	1509	GLN	N-CA-C	9.91	122.16	111.36
3	8-V	1509	GLN	N-CA-C	9.91	122.16	111.36
4	1-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	1-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	2-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	2-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	3-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	3-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	4-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	4-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	5-L	463	ILE	CA-C-O	-9.89	108.41	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	6-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	6-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	7-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	7-R	463	ILE	CA-C-O	-9.89	108.41	120.78
4	8-L	463	ILE	CA-C-O	-9.89	108.41	120.78
4	8-R	463	ILE	CA-C-O	-9.89	108.41	120.78
3	1-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	1-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	2-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	2-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	3-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	3-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	4-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	4-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	5-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	5-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	6-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	6-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	7-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	7-X	463	ILE	CA-C-O	-9.88	108.42	120.78
3	8-D	1486	CYS	N-CA-C	9.88	122.05	111.28
4	8-X	463	ILE	CA-C-O	-9.88	108.42	120.78
4	1-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	2-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	3-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	4-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	5-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	6-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	7-F	463	ILE	CA-C-O	-9.87	108.44	120.78
4	8-F	463	ILE	CA-C-O	-9.87	108.44	120.78
3	1-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	2-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	3-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	4-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	5-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	6-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	7-V	1486	CYS	N-CA-C	9.87	122.03	111.28
3	8-V	1486	CYS	N-CA-C	9.87	122.03	111.28
6	1-Z	501	GLU	CA-C-O	9.83	131.21	119.61
6	2-Z	501	GLU	CA-C-O	9.83	131.21	119.61
6	3-Z	501	GLU	CA-C-O	9.83	131.21	119.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	501	GLU	CA-C-O	9.83	131.21	119.61
6	5-Z	501	GLU	CA-C-O	9.83	131.21	119.61
6	6-Z	501	GLU	CA-C-O	9.83	131.21	119.61
6	7-Z	501	GLU	CA-C-O	9.83	131.21	119.61
6	8-Z	501	GLU	CA-C-O	9.83	131.21	119.61
4	1-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	2-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	3-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	4-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	5-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	6-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	7-F	307	ILE	N-CA-C	-9.82	100.80	110.72
4	8-F	307	ILE	N-CA-C	-9.82	100.80	110.72
6	1-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	2-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	3-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	4-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	5-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	6-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	7-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	8-N	501	GLU	CA-C-O	9.80	131.18	119.61
6	1-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	1-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	2-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	2-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	3-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	3-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	4-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	4-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	5-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	5-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	6-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	6-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	7-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	7-L	307	ILE	N-CA-C	-9.80	100.82	110.72
6	8-H	501	GLU	CA-C-O	9.80	131.18	119.61
4	8-L	307	ILE	N-CA-C	-9.80	100.82	110.72
4	1-R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	2-R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	3-R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	4-R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	5-R	307	ILE	N-CA-C	-9.80	100.82	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	7-R	307	ILE	N-CA-C	-9.80	100.82	110.72
4	8-R	307	ILE	N-CA-C	-9.80	100.82	110.72
6	1-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	2-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	3-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	4-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	5-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	6-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	7-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	8-T	501	GLU	CA-C-O	9.79	131.17	119.61
6	1-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	1-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	2-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	2-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	3-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	3-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	4-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	4-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	5-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	5-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	6-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	6-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	7-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	7-Z	446	ARG	C-N-CA	9.79	134.19	120.29
6	8-Z	446	ARG	CA-C-N	9.79	134.19	120.29
6	8-Z	446	ARG	C-N-CA	9.79	134.19	120.29
4	1-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	2-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	3-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	4-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	5-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	6-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	7-X	307	ILE	N-CA-C	-9.78	100.84	110.72
4	8-X	307	ILE	N-CA-C	-9.78	100.84	110.72
5	1-S	277	SER	N-CA-C	9.78	124.81	109.07
6	1-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	1-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	2-S	277	SER	N-CA-C	9.78	124.81	109.07
6	2-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	2-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	3-S	277	SER	N-CA-C	9.78	124.81	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	3-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	4-S	277	SER	N-CA-C	9.78	124.81	109.07
6	4-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	4-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	5-S	277	SER	N-CA-C	9.78	124.81	109.07
6	5-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	5-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	6-S	277	SER	N-CA-C	9.78	124.81	109.07
6	6-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	6-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	7-S	277	SER	N-CA-C	9.78	124.81	109.07
6	7-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	7-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	8-S	277	SER	N-CA-C	9.78	124.81	109.07
6	8-T	446	ARG	CA-C-N	9.78	134.17	120.29
6	8-T	446	ARG	C-N-CA	9.78	134.17	120.29
5	1-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	2-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	3-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	4-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	5-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	6-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	7-Y	277	SER	N-CA-C	9.77	124.80	109.07
5	8-Y	277	SER	N-CA-C	9.77	124.80	109.07
6	1-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	1-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	1-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	1-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	2-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	2-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	2-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	2-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	3-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	3-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	3-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	3-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	4-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	4-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	4-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	4-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	5-H	446	ARG	CA-C-N	9.76	134.15	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	5-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	5-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	6-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	6-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	6-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	6-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	7-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	7-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	7-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	7-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	8-H	446	ARG	CA-C-N	9.76	134.15	120.29
6	8-H	446	ARG	C-N-CA	9.76	134.15	120.29
6	8-N	446	ARG	CA-C-N	9.76	134.15	120.29
6	8-N	446	ARG	C-N-CA	9.76	134.15	120.29
6	1-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	1-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	2-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	2-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	3-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	3-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	4-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	4-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	5-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	5-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	6-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	6-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	7-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	7-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
6	8-Z	394	ASP	CA-C-N	-9.76	103.90	120.58
6	8-Z	394	ASP	C-N-CA	-9.76	103.90	120.58
5	1-G	277	SER	N-CA-C	9.75	124.77	109.07
5	2-G	277	SER	N-CA-C	9.75	124.77	109.07
5	3-G	277	SER	N-CA-C	9.75	124.77	109.07
5	4-G	277	SER	N-CA-C	9.75	124.77	109.07
5	5-G	277	SER	N-CA-C	9.75	124.77	109.07
5	6-G	277	SER	N-CA-C	9.75	124.77	109.07
5	7-G	277	SER	N-CA-C	9.75	124.77	109.07
5	8-G	277	SER	N-CA-C	9.75	124.77	109.07
6	1-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	1-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	1-M	277	SER	N-CA-C	9.75	124.76	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	2-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	2-M	277	SER	N-CA-C	9.75	124.76	109.07
6	3-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	3-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	3-M	277	SER	N-CA-C	9.75	124.76	109.07
6	4-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	4-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	4-M	277	SER	N-CA-C	9.75	124.76	109.07
6	5-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	5-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	5-M	277	SER	N-CA-C	9.75	124.76	109.07
6	6-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	6-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	6-M	277	SER	N-CA-C	9.75	124.76	109.07
6	7-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	7-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	7-M	277	SER	N-CA-C	9.75	124.76	109.07
6	8-H	394	ASP	CA-C-N	-9.75	103.91	120.58
6	8-H	394	ASP	C-N-CA	-9.75	103.91	120.58
5	8-M	277	SER	N-CA-C	9.75	124.76	109.07
6	1-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	1-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	2-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	2-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	3-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	3-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	4-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	4-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	5-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	5-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	6-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	6-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	7-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	7-N	394	ASP	C-N-CA	-9.73	103.94	120.58
6	8-N	394	ASP	CA-C-N	-9.73	103.94	120.58
6	8-N	394	ASP	C-N-CA	-9.73	103.94	120.58
4	1-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	1-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	2-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	2-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	3-X	394	GLU	CA-C-N	-9.72	106.83	120.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	4-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	4-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	5-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	5-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	6-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	6-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	7-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	7-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	8-X	394	GLU	CA-C-N	-9.72	106.83	120.74
4	8-X	394	GLU	C-N-CA	-9.72	106.83	120.74
4	1-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	1-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	1-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	1-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	2-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	2-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	2-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	2-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	3-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	3-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	3-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	3-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	4-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	4-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	4-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	4-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	5-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	5-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	5-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	5-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	6-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	6-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	6-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	6-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	7-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	7-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	7-T	394	ASP	CA-C-N	-9.71	103.97	120.58
6	7-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	8-L	394	GLU	CA-C-N	-9.71	106.85	120.74
4	8-L	394	GLU	C-N-CA	-9.71	106.85	120.74
6	8-T	394	ASP	CA-C-N	-9.71	103.97	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	394	ASP	C-N-CA	-9.71	103.97	120.58
4	1-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	1-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	2-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	2-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	3-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	3-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	4-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	4-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	5-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	5-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	6-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	6-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	7-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	7-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	8-R	394	GLU	CA-C-N	-9.71	106.86	120.74
4	8-R	394	GLU	C-N-CA	-9.71	106.86	120.74
4	1-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	1-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	2-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	2-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	3-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	3-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	4-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	4-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	5-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	5-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	6-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	6-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	7-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	7-F	394	GLU	C-N-CA	-9.70	106.87	120.74
4	8-F	394	GLU	CA-C-N	-9.70	106.87	120.74
4	8-F	394	GLU	C-N-CA	-9.70	106.87	120.74
3	1-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	1-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	1-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	2-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	2-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	2-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	3-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	3-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	3-H	413	LEU	N-CA-CB	9.67	124.09	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	4-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	4-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	5-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	5-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	5-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	6-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	6-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	6-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	7-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	7-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	7-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	8-D	1503	ILE	CA-C-N	9.67	136.48	120.62
3	8-D	1503	ILE	C-N-CA	9.67	136.48	120.62
6	8-H	413	LEU	N-CA-CB	9.67	124.09	110.07
3	1-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	1-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	2-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	2-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	3-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	3-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	4-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	4-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	5-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	5-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	6-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	6-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	7-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	7-P	1503	ILE	C-N-CA	9.67	136.48	120.62
3	8-P	1503	ILE	CA-C-N	9.67	136.48	120.62
3	8-P	1503	ILE	C-N-CA	9.67	136.48	120.62
4	1-L	468	LYS	O-C-N	9.66	132.36	122.12
5	1-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	2-L	468	LYS	O-C-N	9.66	132.36	122.12
5	2-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	3-L	468	LYS	O-C-N	9.66	132.36	122.12
5	3-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	4-L	468	LYS	O-C-N	9.66	132.36	122.12
5	4-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	5-L	468	LYS	O-C-N	9.66	132.36	122.12
5	5-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	6-L	468	LYS	O-C-N	9.66	132.36	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	7-L	468	LYS	O-C-N	9.66	132.36	122.12
5	7-M	365	GLU	N-CA-C	-9.66	100.05	112.23
4	8-L	468	LYS	O-C-N	9.66	132.36	122.12
5	8-M	365	GLU	N-CA-C	-9.66	100.05	112.23
6	3-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	6-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	1-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	1-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	1-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	1-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	2-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	2-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	2-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	2-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	3-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	3-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	3-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	4-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	4-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	4-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	4-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	5-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	5-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	5-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	5-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	6-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	6-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	6-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	7-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	7-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	7-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	7-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	8-N	413	LEU	N-CA-CB	9.66	124.08	110.07
4	8-R	299	ASN	CA-C-N	9.66	130.33	120.38
4	8-R	299	ASN	C-N-CA	9.66	130.33	120.38
6	8-T	413	LEU	N-CA-CB	9.66	124.08	110.07
6	1-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
6	2-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
6	3-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
6	4-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
6	5-Z	413	LEU	N-CA-CB	9.65	124.06	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
6	7-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
6	8-Z	413	LEU	N-CA-CB	9.65	124.06	110.07
4	1-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	1-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	2-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	2-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	3-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	3-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	4-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	4-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	5-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	5-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	6-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	6-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	7-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	7-F	299	ASN	C-N-CA	9.65	130.32	120.38
4	8-F	299	ASN	CA-C-N	9.65	130.32	120.38
4	8-F	299	ASN	C-N-CA	9.65	130.32	120.38
5	1-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	2-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	3-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	4-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	5-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	6-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	7-G	365	GLU	N-CA-C	-9.64	100.08	112.23
5	8-G	365	GLU	N-CA-C	-9.64	100.08	112.23
3	1-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	1-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	1-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	1-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	2-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	2-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	2-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	2-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	3-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	3-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	3-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	3-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	4-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	4-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	4-V	1503	ILE	CA-C-N	9.64	136.43	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	5-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	5-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	5-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	5-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	6-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	6-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	6-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	6-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	7-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	7-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	7-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	7-V	1503	ILE	C-N-CA	9.64	136.43	120.62
3	8-J	1503	ILE	CA-C-N	9.64	136.43	120.62
3	8-J	1503	ILE	C-N-CA	9.64	136.43	120.62
3	8-V	1503	ILE	CA-C-N	9.64	136.43	120.62
3	8-V	1503	ILE	C-N-CA	9.64	136.43	120.62
4	1-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	1-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	2-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	2-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	3-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	3-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	4-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	4-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	5-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	5-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	6-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	6-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	7-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	7-L	299	ASN	C-N-CA	9.63	130.30	120.38
4	8-L	299	ASN	CA-C-N	9.63	130.30	120.38
4	8-L	299	ASN	C-N-CA	9.63	130.30	120.38
5	1-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	2-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	3-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	4-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	5-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	6-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	7-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	8-S	365	GLU	N-CA-C	-9.63	100.10	112.23
5	1-Y	365	GLU	N-CA-C	-9.63	100.10	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
5	3-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
5	4-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
5	5-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
5	6-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
5	7-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
5	8-Y	365	GLU	N-CA-C	-9.63	100.10	112.23
4	1-R	468	LYS	O-C-N	9.62	132.32	122.12
4	2-R	468	LYS	O-C-N	9.62	132.32	122.12
4	3-R	468	LYS	O-C-N	9.62	132.32	122.12
4	4-R	468	LYS	O-C-N	9.62	132.32	122.12
4	5-R	468	LYS	O-C-N	9.62	132.32	122.12
4	6-R	468	LYS	O-C-N	9.62	132.32	122.12
4	7-R	468	LYS	O-C-N	9.62	132.32	122.12
4	8-R	468	LYS	O-C-N	9.62	132.32	122.12
4	1-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	1-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	2-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	2-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	3-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	3-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	4-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	4-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	5-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	5-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	6-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	6-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	7-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	7-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	8-X	299	ASN	CA-C-N	9.62	130.29	120.38
4	8-X	299	ASN	C-N-CA	9.62	130.29	120.38
4	1-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	2-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	3-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	4-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	5-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	6-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	7-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	8-F	401	TYR	N-CA-CB	9.62	126.75	110.49
4	1-X	401	TYR	N-CA-CB	9.61	126.72	110.49
4	2-X	401	TYR	N-CA-CB	9.61	126.72	110.49
4	3-X	401	TYR	N-CA-CB	9.61	126.72	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	401	TYR	N-CA-CB	9.61	126.72	110.49
4	5-X	401	TYR	N-CA-CB	9.61	126.72	110.49
4	6-X	401	TYR	N-CA-CB	9.61	126.72	110.49
4	7-X	401	TYR	N-CA-CB	9.61	126.72	110.49
4	8-X	401	TYR	N-CA-CB	9.61	126.72	110.49
6	1-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	2-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	3-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	4-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	5-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	6-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	7-T	453	ASP	N-CA-C	-9.60	100.89	111.36
6	8-T	453	ASP	N-CA-C	-9.60	100.89	111.36
4	1-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	2-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	3-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	4-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	5-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	6-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	7-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	8-L	144	LEU	CB-CA-C	-9.60	89.92	109.99
4	1-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	1-X	468	LYS	O-C-N	9.60	132.30	122.12
4	2-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	2-X	468	LYS	O-C-N	9.60	132.30	122.12
4	3-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	3-X	468	LYS	O-C-N	9.60	132.30	122.12
4	4-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	4-X	468	LYS	O-C-N	9.60	132.30	122.12
4	5-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	5-X	468	LYS	O-C-N	9.60	132.30	122.12
4	6-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	6-X	468	LYS	O-C-N	9.60	132.30	122.12
4	7-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	7-X	468	LYS	O-C-N	9.60	132.30	122.12
4	8-R	401	TYR	N-CA-CB	9.60	126.72	110.49
4	8-X	468	LYS	O-C-N	9.60	132.30	122.12
4	1-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	1-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	1-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	2-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	2-R	443	HIS	O-C-N	-9.60	109.83	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	2-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	3-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	3-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	4-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	4-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	5-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	4-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	5-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	5-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	6-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	6-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	7-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	6-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	7-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	7-X	443	HIS	O-C-N	-9.60	109.83	122.59
4	8-R	144	LEU	CB-CA-C	-9.60	89.93	109.99
4	8-R	443	HIS	O-C-N	-9.60	109.83	122.59
4	8-X	443	HIS	O-C-N	-9.60	109.83	122.59
6	1-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	2-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	3-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	4-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	5-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	6-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	7-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
6	8-Z	453	ASP	N-CA-C	-9.59	100.91	111.36
4	1-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	1-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	2-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	2-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	3-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	3-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	4-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	4-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	5-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	5-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	6-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	6-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	7-F	144	LEU	CB-CA-C	-9.59	89.95	109.99
4	7-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	8-F	144	LEU	CB-CA-C	-9.59	89.95	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	401	TYR	N-CA-CB	9.59	126.69	110.49
4	1-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	2-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	3-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	4-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	5-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	6-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	7-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	8-X	437	GLN	N-CA-C	9.59	121.33	111.07
4	1-F	468	LYS	O-C-N	9.59	132.28	122.12
4	2-F	468	LYS	O-C-N	9.59	132.28	122.12
4	3-F	468	LYS	O-C-N	9.59	132.28	122.12
4	4-F	468	LYS	O-C-N	9.59	132.28	122.12
4	5-F	468	LYS	O-C-N	9.59	132.28	122.12
4	6-F	468	LYS	O-C-N	9.59	132.28	122.12
4	7-F	468	LYS	O-C-N	9.59	132.28	122.12
4	8-F	468	LYS	O-C-N	9.59	132.28	122.12
6	1-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	2-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	3-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	4-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	5-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	6-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	7-N	453	ASP	N-CA-C	-9.58	100.92	111.36
6	8-N	453	ASP	N-CA-C	-9.58	100.92	111.36
4	1-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	2-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	3-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	4-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	5-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	6-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	7-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
4	8-X	144	LEU	CB-CA-C	-9.58	89.97	109.99
6	1-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	2-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	3-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	4-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	5-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	6-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	7-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
6	8-Z	338	ASN	CB-CA-C	-9.58	95.84	110.88
3	1-J	1491	ILE	CA-C-O	9.57	131.31	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	2-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	2-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	3-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	3-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	4-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	4-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	5-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	5-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	6-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	6-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	7-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	7-P	1491	ILE	CA-C-O	9.57	131.31	121.17
3	8-J	1491	ILE	CA-C-O	9.57	131.31	121.17
3	8-P	1491	ILE	CA-C-O	9.57	131.31	121.17
4	1-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	2-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	3-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	4-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	5-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	6-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	7-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	8-L	437	GLN	N-CA-C	9.57	121.31	111.07
4	1-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	1-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	1-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	2-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	2-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	2-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	3-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	3-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	3-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	4-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	4-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	4-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	5-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	5-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	5-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	6-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	6-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	6-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	7-F	443	HIS	O-C-N	-9.56	109.87	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	7-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	8-F	443	HIS	O-C-N	-9.56	109.87	122.59
6	8-H	338	ASN	CB-CA-C	-9.56	95.86	110.88
6	8-T	338	ASN	CB-CA-C	-9.56	95.86	110.88
4	1-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	1-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	2-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	2-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	3-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	3-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	4-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	4-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	5-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	5-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	6-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	6-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	7-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	7-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	8-L	419	GLY	CA-C-O	-9.56	103.86	119.15
4	8-R	437	GLN	N-CA-C	9.56	121.30	111.07
4	1-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	2-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	3-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	4-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	5-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	6-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	7-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	8-F	419	GLY	CA-C-O	-9.55	103.86	119.15
4	1-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	1-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	2-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	2-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	3-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	3-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	4-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	4-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	5-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	5-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	6-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	6-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	7-F	437	GLN	N-CA-C	9.55	121.29	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-X	419	GLY	CA-C-O	-9.55	103.87	119.15
4	8-F	437	GLN	N-CA-C	9.55	121.29	111.07
4	8-X	419	GLY	CA-C-O	-9.55	103.87	119.15
6	1-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	2-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	3-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	4-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	5-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	6-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	7-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
6	8-Z	374	SER	CB-CA-C	-9.55	91.97	110.11
4	1-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	2-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	3-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	4-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	5-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	6-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	7-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	8-L	443	HIS	O-C-N	-9.55	109.89	122.59
4	1-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	1-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	1-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	2-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	2-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	2-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	3-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	3-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	3-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	4-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	4-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	4-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	5-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	5-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	5-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	6-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	6-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	6-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	7-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	7-N	374	SER	CB-CA-C	-9.54	91.99	110.11
4	7-R	419	GLY	CA-C-O	-9.54	103.89	119.15
4	8-F	303	GLY	N-CA-C	-9.54	90.58	113.18
6	8-N	374	SER	CB-CA-C	-9.54	91.99	110.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	419	GLY	CA-C-O	-9.54	103.89	119.15
6	1-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	1-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	2-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	2-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	3-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	3-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	4-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	4-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	5-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	5-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	6-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	6-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	7-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	7-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
6	8-H	374	SER	CB-CA-C	-9.53	92.00	110.11
6	8-N	338	ASN	CB-CA-C	-9.54	95.91	110.88
4	1-R	303	GLY	N-CA-C	-9.53	90.59	113.18
6	1-T	374	SER	CB-CA-C	-9.53	92.00	110.11
4	1-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	2-R	303	GLY	N-CA-C	-9.53	90.59	113.18
6	2-T	374	SER	CB-CA-C	-9.53	92.00	110.11
6	8-T	374	SER	CB-CA-C	-9.53	92.00	110.11
4	2-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	3-R	303	GLY	N-CA-C	-9.53	90.59	113.18
6	3-T	374	SER	CB-CA-C	-9.53	92.00	110.11
6	7-T	374	SER	CB-CA-C	-9.53	92.00	110.11
4	3-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	4-R	303	GLY	N-CA-C	-9.53	90.59	113.18
6	4-T	374	SER	CB-CA-C	-9.53	92.00	110.11
6	6-T	374	SER	CB-CA-C	-9.53	92.00	110.11
4	4-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	5-R	303	GLY	N-CA-C	-9.53	90.59	113.18
6	5-T	374	SER	CB-CA-C	-9.53	92.00	110.11
4	5-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	6-R	303	GLY	N-CA-C	-9.53	90.59	113.18
4	6-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	7-R	303	GLY	N-CA-C	-9.53	90.59	113.18
4	7-X	303	GLY	N-CA-C	-9.53	90.60	113.18
4	8-R	303	GLY	N-CA-C	-9.53	90.59	113.18
4	8-X	303	GLY	N-CA-C	-9.53	90.60	113.18
3	1-V	1491	ILE	CA-C-O	9.52	131.26	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	1-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	2-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	2-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	2-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	3-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	3-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	3-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	4-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	4-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	4-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	5-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	5-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	5-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	6-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	6-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	6-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	7-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	7-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	7-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	8-V	1491	ILE	CA-C-O	9.52	131.26	121.17
5	8-Y	392	ILE	CA-C-N	-9.52	104.48	121.14
5	8-Y	392	ILE	C-N-CA	-9.52	104.48	121.14
3	1-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	1-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	1-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	2-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	2-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	2-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	3-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	3-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	3-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	4-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	4-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	4-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	5-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	5-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	5-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	6-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	6-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	6-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	7-D	1491	ILE	CA-C-O	9.52	131.26	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	7-S	392	ILE	C-N-CA	-9.52	104.48	121.14
3	8-D	1491	ILE	CA-C-O	9.52	131.26	121.17
5	8-S	392	ILE	CA-C-N	-9.52	104.48	121.14
5	8-S	392	ILE	C-N-CA	-9.52	104.48	121.14
6	1-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	2-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	3-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	4-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	5-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	6-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	7-H	453	ASP	N-CA-C	-9.52	100.99	111.36
6	8-H	453	ASP	N-CA-C	-9.52	100.99	111.36
5	1-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	1-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	2-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	2-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	3-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	3-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	4-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	4-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	5-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	5-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	6-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	6-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	7-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	7-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	8-M	392	ILE	CA-C-N	-9.51	104.49	121.14
5	8-M	392	ILE	C-N-CA	-9.51	104.49	121.14
5	1-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	1-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	1-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	2-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	2-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	2-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	3-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	3-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	3-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	4-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	4-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	4-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	5-G	392	ILE	CA-C-N	-9.51	104.50	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	5-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	6-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	6-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	6-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	7-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	7-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	7-L	303	GLY	N-CA-C	-9.51	90.65	113.18
5	8-G	392	ILE	CA-C-N	-9.51	104.50	121.14
5	8-G	392	ILE	C-N-CA	-9.51	104.50	121.14
4	8-L	303	GLY	N-CA-C	-9.51	90.65	113.18
4	1-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	1-P	1517	SER	O-C-N	9.44	133.63	122.20
4	1-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	2-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	2-P	1517	SER	O-C-N	9.44	133.63	122.20
4	2-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	3-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	3-P	1517	SER	O-C-N	9.44	133.63	122.20
4	3-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	4-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	4-P	1517	SER	O-C-N	9.44	133.63	122.20
4	4-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	5-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	5-P	1517	SER	O-C-N	9.44	133.63	122.20
4	5-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	6-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	6-P	1517	SER	O-C-N	9.44	133.63	122.20
4	6-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	7-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	7-P	1517	SER	O-C-N	9.44	133.63	122.20
4	7-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	8-L	420	GLU	N-CA-C	-9.45	99.50	111.02
3	8-P	1517	SER	O-C-N	9.44	133.63	122.20
4	8-X	420	GLU	N-CA-C	-9.44	99.50	111.02
4	1-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	1-J	1517	SER	O-C-N	9.43	133.61	122.20
4	2-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	2-J	1517	SER	O-C-N	9.43	133.61	122.20
4	3-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	3-J	1517	SER	O-C-N	9.43	133.61	122.20
4	4-F	420	GLU	N-CA-C	-9.43	99.51	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	1517	SER	O-C-N	9.43	133.61	122.20
4	5-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	5-J	1517	SER	O-C-N	9.43	133.61	122.20
4	6-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	6-J	1517	SER	O-C-N	9.43	133.61	122.20
4	7-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	7-J	1517	SER	O-C-N	9.43	133.61	122.20
4	8-F	420	GLU	N-CA-C	-9.43	99.51	111.02
3	8-J	1517	SER	O-C-N	9.43	133.61	122.20
4	1-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	2-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	3-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	4-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	5-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	6-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	7-R	420	GLU	N-CA-C	-9.43	99.51	111.02
4	8-R	420	GLU	N-CA-C	-9.43	99.51	111.02
3	1-V	1517	SER	O-C-N	9.42	133.60	122.20
3	2-V	1517	SER	O-C-N	9.42	133.60	122.20
3	3-V	1517	SER	O-C-N	9.42	133.60	122.20
3	4-V	1517	SER	O-C-N	9.42	133.60	122.20
3	5-V	1517	SER	O-C-N	9.42	133.60	122.20
3	6-V	1517	SER	O-C-N	9.42	133.60	122.20
3	7-V	1517	SER	O-C-N	9.42	133.60	122.20
3	8-V	1517	SER	O-C-N	9.42	133.60	122.20
4	1-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	2-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	3-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	4-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	5-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	6-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	7-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	8-X	439	ARG	N-CA-CB	9.41	124.87	110.28
4	1-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	2-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	3-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	4-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	5-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	6-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	7-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	8-R	439	ARG	N-CA-CB	9.40	124.86	110.28
4	1-R	398	LYS	CA-C-O	9.39	131.43	119.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	3-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	4-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	5-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	6-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	7-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	8-R	398	LYS	CA-C-O	9.39	131.43	119.12
4	1-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	2-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	3-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	4-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	5-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	6-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	7-F	439	ARG	N-CA-CB	9.39	124.84	110.28
4	8-F	439	ARG	N-CA-CB	9.39	124.84	110.28
3	1-D	1517	SER	O-C-N	9.39	133.56	122.20
4	1-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	2-D	1517	SER	O-C-N	9.39	133.56	122.20
4	2-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	3-D	1517	SER	O-C-N	9.39	133.56	122.20
4	3-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	4-D	1517	SER	O-C-N	9.39	133.56	122.20
4	4-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	5-D	1517	SER	O-C-N	9.39	133.56	122.20
4	5-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	6-D	1517	SER	O-C-N	9.39	133.56	122.20
4	6-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	7-D	1517	SER	O-C-N	9.39	133.56	122.20
4	7-F	398	LYS	CA-C-O	9.39	131.42	119.12
3	8-D	1517	SER	O-C-N	9.39	133.56	122.20
4	8-F	398	LYS	CA-C-O	9.39	131.42	119.12
4	1-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	1-M	312	LYS	O-C-N	9.37	131.72	122.07
4	2-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	2-M	312	LYS	O-C-N	9.37	131.72	122.07
4	3-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	3-M	312	LYS	O-C-N	9.37	131.72	122.07
4	4-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	4-M	312	LYS	O-C-N	9.37	131.72	122.07
4	5-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	5-M	312	LYS	O-C-N	9.37	131.72	122.07
4	6-L	398	LYS	CA-C-O	9.37	131.40	119.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	312	LYS	O-C-N	9.37	131.72	122.07
4	7-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	7-M	312	LYS	O-C-N	9.37	131.72	122.07
4	8-L	398	LYS	CA-C-O	9.37	131.40	119.12
5	8-M	312	LYS	O-C-N	9.37	131.72	122.07
4	1-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	2-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	3-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	4-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	5-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	6-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	7-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	8-L	439	ARG	N-CA-CB	9.36	124.79	110.28
4	1-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	1-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	2-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	2-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	3-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	3-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	4-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	4-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	5-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	5-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	6-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	6-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	7-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	7-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
4	8-X	398	LYS	CA-C-O	9.36	131.38	119.12
5	8-Y	331	THR	N-CA-CB	-9.36	95.93	110.43
5	1-G	312	LYS	O-C-N	9.35	131.70	122.07
5	1-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	2-G	312	LYS	O-C-N	9.35	131.70	122.07
5	2-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	3-G	312	LYS	O-C-N	9.35	131.70	122.07
5	3-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	4-G	312	LYS	O-C-N	9.35	131.70	122.07
5	4-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	5-G	312	LYS	O-C-N	9.35	131.70	122.07
5	5-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	6-G	312	LYS	O-C-N	9.35	131.70	122.07
5	6-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	7-G	312	LYS	O-C-N	9.35	131.70	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	331	THR	N-CA-CB	-9.35	95.94	110.43
5	8-G	312	LYS	O-C-N	9.35	131.70	122.07
5	8-S	331	THR	N-CA-CB	-9.35	95.94	110.43
6	1-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	2-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	3-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	4-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	5-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	6-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	7-H	487	TRP	CA-C-O	9.33	130.44	120.55
6	8-H	487	TRP	CA-C-O	9.33	130.44	120.55
5	1-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	2-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	3-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	4-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	5-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	6-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	7-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	8-Y	312	LYS	O-C-N	9.33	131.68	122.07
5	1-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	1-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	1-S	312	LYS	O-C-N	9.32	131.68	122.07
5	2-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	2-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	2-S	312	LYS	O-C-N	9.32	131.68	122.07
5	3-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	3-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	3-S	312	LYS	O-C-N	9.32	131.68	122.07
5	4-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	4-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	4-S	312	LYS	O-C-N	9.32	131.68	122.07
5	5-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	5-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	5-S	312	LYS	O-C-N	9.32	131.68	122.07
5	6-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	6-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	6-S	312	LYS	O-C-N	9.32	131.68	122.07
5	7-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	7-M	331	THR	N-CA-CB	-9.32	95.98	110.43
5	7-S	312	LYS	O-C-N	9.32	131.68	122.07
5	8-G	331	THR	N-CA-CB	-9.32	95.98	110.43
5	8-M	331	THR	N-CA-CB	-9.32	95.98	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-S	312	LYS	O-C-N	9.32	131.68	122.07
6	1-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	2-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	3-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	4-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	5-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	6-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	7-Z	487	TRP	CA-C-O	9.32	130.43	120.55
6	8-Z	487	TRP	CA-C-O	9.32	130.43	120.55
2	1-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	2-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	3-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	4-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	5-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	6-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	7-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	8-O	5	GLY	N-CA-C	9.31	135.25	113.18
2	1-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	2-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	3-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	4-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	5-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	6-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	7-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	8-I	5	GLY	N-CA-C	9.31	135.23	113.18
2	1-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	2-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	3-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	4-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	5-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	6-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	7-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	8-C	5	GLY	N-CA-C	9.30	135.23	113.18
2	1-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	2-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	3-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	4-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	5-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	6-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	7-U	5	GLY	N-CA-C	9.30	135.22	113.18
2	8-U	5	GLY	N-CA-C	9.30	135.22	113.18
3	1-J	1448	MET	N-CA-C	-9.28	101.16	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	3-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	4-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	5-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	6-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	7-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	8-J	1448	MET	N-CA-C	-9.28	101.16	111.28
3	1-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	2-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	3-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	4-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	5-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	6-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	7-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	8-P	1448	MET	N-CA-C	-9.28	101.17	111.28
3	1-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	2-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	3-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	4-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	5-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	6-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	7-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	8-D	1448	MET	N-CA-C	-9.27	101.18	111.28
3	1-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	2-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	3-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	4-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	5-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	6-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	7-V	1448	MET	N-CA-C	-9.26	101.18	111.28
3	8-V	1448	MET	N-CA-C	-9.26	101.18	111.28
5	1-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	2-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	3-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	4-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	5-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	6-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	7-M	344	ASP	CA-C-O	9.26	133.75	120.51
5	8-M	344	ASP	CA-C-O	9.26	133.75	120.51
6	1-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	1-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	2-N	487	TRP	CA-C-O	9.25	130.35	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	3-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	3-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	4-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	4-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	5-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	5-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	6-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	6-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	7-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	7-T	487	TRP	CA-C-O	9.25	130.35	120.55
6	8-N	487	TRP	CA-C-O	9.25	130.35	120.55
6	8-T	487	TRP	CA-C-O	9.25	130.35	120.55
5	1-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	2-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	3-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	4-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	5-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	6-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	7-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	8-G	344	ASP	CA-C-O	9.25	133.73	120.51
5	1-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	2-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	3-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	4-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	5-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	6-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	7-S	344	ASP	CA-C-O	9.22	133.69	120.51
5	8-S	344	ASP	CA-C-O	9.22	133.69	120.51
2	1-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	1-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	2-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	2-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	3-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	3-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	4-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	4-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	5-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	5-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	6-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	6-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	7-O	28	HIS	CB-CA-C	9.21	127.48	109.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	344	ASP	CA-C-O	9.22	133.69	120.51
2	8-O	28	HIS	CB-CA-C	9.21	127.48	109.33
5	8-Y	344	ASP	CA-C-O	9.22	133.69	120.51
4	1-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	1-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	2-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	2-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	3-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	3-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	4-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	4-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	5-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	5-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	6-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	6-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	7-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	7-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	8-F	493	HIS	N-CA-CB	-9.21	94.84	110.50
4	8-X	493	HIS	N-CA-CB	-9.21	94.84	110.50
2	1-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	1-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	2-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	2-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	3-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	3-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	4-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	4-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	5-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	5-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	6-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	6-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	7-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	7-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	8-C	28	HIS	CB-CA-C	9.21	127.47	109.33
4	8-L	493	HIS	N-CA-CB	-9.21	94.85	110.50
2	1-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	2-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	3-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	4-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	5-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	6-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	7-I	28	HIS	CB-CA-C	9.20	127.46	109.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-I	28	HIS	CB-CA-C	9.20	127.46	109.33
2	1-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	2-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	3-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	4-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	5-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	6-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	7-U	28	HIS	CB-CA-C	9.20	127.46	109.33
2	8-U	28	HIS	CB-CA-C	9.20	127.46	109.33
5	1-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	2-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	3-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	4-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	5-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	6-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	7-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
5	8-S	296	LEU	CB-CA-C	-9.20	96.44	110.88
4	1-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	2-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	3-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	4-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	5-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	6-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	7-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
4	8-R	493	HIS	N-CA-CB	-9.19	94.87	110.50
5	1-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	1-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	2-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	2-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	3-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	3-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	4-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	4-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	5-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	5-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	6-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	6-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	7-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	7-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	8-M	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	8-Y	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	1-G	296	LEU	CB-CA-C	-9.19	96.46	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	3-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	4-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	5-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	6-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	7-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
5	8-G	296	LEU	CB-CA-C	-9.19	96.46	110.88
4	1-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	2-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	3-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	4-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	5-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	6-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	7-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	8-F	425	THR	N-CA-C	-9.18	100.87	112.90
4	1-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	2-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	3-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	4-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	5-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	6-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	7-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	8-L	425	THR	N-CA-C	-9.18	100.88	112.90
4	1-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	2-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	3-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	4-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	5-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	6-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	7-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	8-R	425	THR	N-CA-C	-9.17	100.89	112.90
4	1-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	2-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	3-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	4-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	5-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	6-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	7-X	425	THR	N-CA-C	-9.16	100.90	112.90
4	8-X	425	THR	N-CA-C	-9.16	100.90	112.90
3	1-V	1510	GLN	O-C-N	9.16	134.66	122.30
3	2-V	1510	GLN	O-C-N	9.16	134.66	122.30
3	3-V	1510	GLN	O-C-N	9.16	134.66	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1510	GLN	O-C-N	9.16	134.66	122.30
3	5-V	1510	GLN	O-C-N	9.16	134.66	122.30
3	6-V	1510	GLN	O-C-N	9.16	134.66	122.30
3	7-V	1510	GLN	O-C-N	9.16	134.66	122.30
3	8-V	1510	GLN	O-C-N	9.16	134.66	122.30
4	1-L	452	ARG	N-CA-C	9.11	130.21	110.80
3	1-V	1663	GLN	N-CA-C	9.11	121.91	108.60
3	3-V	1663	GLN	N-CA-C	9.11	121.91	108.60
3	4-V	1663	GLN	N-CA-C	9.11	121.91	108.60
4	1-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	2-L	452	ARG	N-CA-C	9.11	130.21	110.80
3	2-V	1663	GLN	N-CA-C	9.11	121.91	108.60
3	8-V	1663	GLN	N-CA-C	9.11	121.91	108.60
4	2-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	3-L	452	ARG	N-CA-C	9.11	130.21	110.80
4	3-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	4-L	452	ARG	N-CA-C	9.11	130.21	110.80
4	4-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	5-L	452	ARG	N-CA-C	9.11	130.21	110.80
3	5-V	1663	GLN	N-CA-C	9.11	121.91	108.60
3	7-V	1663	GLN	N-CA-C	9.11	121.91	108.60
4	5-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	6-L	452	ARG	N-CA-C	9.11	130.21	110.80
3	6-V	1663	GLN	N-CA-C	9.11	121.91	108.60
4	6-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	7-L	452	ARG	N-CA-C	9.11	130.21	110.80
4	7-R	452	ARG	N-CA-C	9.11	130.21	110.80
4	8-L	452	ARG	N-CA-C	9.11	130.21	110.80
4	8-R	452	ARG	N-CA-C	9.11	130.21	110.80
3	1-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
3	1-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	1-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	1-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	3-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
3	2-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	2-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	2-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	2-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
3	3-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	3-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	3-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	5-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	4-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	4-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	4-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
3	5-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	5-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	5-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	7-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
3	6-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	6-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	6-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	6-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
3	7-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	7-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	7-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	8-D	1663	GLN	N-CA-C	9.11	121.90	108.60
6	8-H	500	GLU	CA-C-N	9.11	135.30	120.63
6	8-H	500	GLU	C-N-CA	9.11	135.30	120.63
3	8-J	1491	ILE	CB-CA-C	-9.11	100.31	111.97
4	1-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	2-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	3-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	4-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	5-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	6-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	7-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	8-F	452	ARG	N-CA-C	9.11	130.20	110.80
4	1-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	2-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	3-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	4-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	5-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	6-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	7-X	452	ARG	N-CA-C	9.10	130.19	110.80
4	8-X	452	ARG	N-CA-C	9.10	130.19	110.80
3	1-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	1-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	1-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	2-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	2-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	2-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	3-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	3-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	4-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	4-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	4-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	5-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	5-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	5-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	6-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	6-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	6-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	7-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	7-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	7-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	8-V	1491	ILE	CB-CA-C	-9.10	100.33	111.97
6	8-Z	500	GLU	CA-C-N	9.10	135.27	120.63
6	8-Z	500	GLU	C-N-CA	9.10	135.27	120.63
3	1-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	1-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	1-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	1-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	2-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	2-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	2-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	2-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	3-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	3-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	3-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	3-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	4-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	4-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	4-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	4-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	5-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	5-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	5-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	5-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	6-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	6-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	6-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	6-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	7-J	1493	ARG	CA-C-O	9.09	130.45	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	7-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	7-V	1493	ARG	CA-C-O	9.09	130.45	120.63
3	8-J	1493	ARG	CA-C-O	9.09	130.45	120.63
3	8-J	1663	GLN	N-CA-C	9.09	121.88	108.60
3	8-P	1491	ILE	CB-CA-C	-9.09	100.33	111.97
3	8-V	1493	ARG	CA-C-O	9.09	130.45	120.63
6	1-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	1-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	1-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	2-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	2-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	2-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	3-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	3-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	3-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	4-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	4-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	4-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	5-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	5-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	5-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	6-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	6-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	6-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	7-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	7-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	7-P	1663	GLN	N-CA-C	9.09	121.87	108.60
6	8-N	500	GLU	CA-C-N	9.09	135.26	120.63
6	8-N	500	GLU	C-N-CA	9.09	135.26	120.63
3	8-P	1663	GLN	N-CA-C	9.09	121.87	108.60
3	1-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	1-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	1-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	2-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	2-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	2-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	3-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	3-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	3-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	4-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	4-T	500	GLU	CA-C-N	9.08	135.25	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	5-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	5-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	5-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	6-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	6-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	6-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	7-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	7-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	7-T	500	GLU	C-N-CA	9.08	135.25	120.63
3	8-D	1493	ARG	CA-C-O	9.08	130.44	120.63
6	8-T	500	GLU	CA-C-N	9.08	135.25	120.63
6	8-T	500	GLU	C-N-CA	9.08	135.25	120.63
4	1-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	2-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	3-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	4-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	5-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	6-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	7-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	8-X	394	GLU	CB-CA-C	-9.07	91.03	109.99
4	1-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
3	1-P	1493	ARG	CA-C-O	9.06	130.42	120.63
3	2-P	1493	ARG	CA-C-O	9.06	130.42	120.63
3	3-P	1493	ARG	CA-C-O	9.06	130.42	120.63
3	4-P	1493	ARG	CA-C-O	9.06	130.42	120.63
3	6-P	1493	ARG	CA-C-O	9.06	130.42	120.63
3	7-P	1493	ARG	CA-C-O	9.06	130.42	120.63
2	1-I	383	THR	CA-C-N	9.06	133.79	120.83
2	1-I	383	THR	C-N-CA	9.06	133.79	120.83
4	1-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	2-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	2-I	383	THR	CA-C-N	9.06	133.79	120.83
2	2-I	383	THR	C-N-CA	9.06	133.79	120.83
4	2-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	3-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	3-I	383	THR	CA-C-N	9.06	133.79	120.83
2	3-I	383	THR	C-N-CA	9.06	133.79	120.83
4	3-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	4-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	4-I	383	THR	CA-C-N	9.06	133.79	120.83
2	4-I	383	THR	C-N-CA	9.06	133.79	120.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	5-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
3	5-P	1493	ARG	CA-C-O	9.06	130.42	120.63
3	8-P	1493	ARG	CA-C-O	9.06	130.42	120.63
2	5-I	383	THR	CA-C-N	9.06	133.79	120.83
2	5-I	383	THR	C-N-CA	9.06	133.79	120.83
4	5-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	6-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	6-I	383	THR	CA-C-N	9.06	133.79	120.83
2	6-I	383	THR	C-N-CA	9.06	133.79	120.83
4	6-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	7-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	7-I	383	THR	CA-C-N	9.06	133.79	120.83
2	7-I	383	THR	C-N-CA	9.06	133.79	120.83
4	7-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
4	8-F	394	GLU	CB-CA-C	-9.06	91.05	109.99
2	8-I	383	THR	CA-C-N	9.06	133.79	120.83
2	8-I	383	THR	C-N-CA	9.06	133.79	120.83
4	8-L	394	GLU	CB-CA-C	-9.06	91.05	109.99
3	1-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	2-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	3-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	4-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	5-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	6-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	7-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
3	8-D	1491	ILE	CB-CA-C	-9.06	100.37	111.97
6	1-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	1-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	2-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	2-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	3-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	3-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	4-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	4-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	5-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	5-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	6-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	6-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	7-N	469	ASP	CA-C-N	9.05	131.16	119.84
6	7-N	469	ASP	C-N-CA	9.05	131.16	119.84
6	8-N	469	ASP	CA-C-N	9.05	131.16	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	469	ASP	C-N-CA	9.05	131.16	119.84
4	1-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	2-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	3-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	4-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	5-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	6-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	7-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
4	8-R	394	GLU	CB-CA-C	-9.05	91.07	109.99
6	1-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	1-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	2-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	2-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	3-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	3-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	4-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	4-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	5-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	5-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	6-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	6-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	7-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	7-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	8-H	469	ASP	CA-C-N	9.04	131.14	119.84
6	8-H	469	ASP	C-N-CA	9.04	131.14	119.84
6	1-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	1-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	2-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	2-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	3-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	3-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	4-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	4-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	5-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	5-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	6-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	6-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	7-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	7-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	8-Z	469	ASP	CA-C-N	9.04	131.14	119.84
6	8-Z	469	ASP	C-N-CA	9.04	131.14	119.84
6	1-T	469	ASP	CA-C-N	9.03	131.13	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	2-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	2-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	3-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	3-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	4-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	4-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	5-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	5-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	6-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	6-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	7-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	7-T	469	ASP	C-N-CA	9.03	131.13	119.84
6	8-T	469	ASP	CA-C-N	9.03	131.13	119.84
6	8-T	469	ASP	C-N-CA	9.03	131.13	119.84
2	1-O	3	THR	CA-C-O	9.03	131.31	121.11
5	1-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	2-O	3	THR	CA-C-O	9.03	131.31	121.11
5	2-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	3-O	3	THR	CA-C-O	9.03	131.31	121.11
5	3-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	4-O	3	THR	CA-C-O	9.03	131.31	121.11
5	4-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	5-O	3	THR	CA-C-O	9.03	131.31	121.11
5	5-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	6-O	3	THR	CA-C-O	9.03	131.31	121.11
5	6-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	7-O	3	THR	CA-C-O	9.03	131.31	121.11
5	7-S	274	ARG	CA-C-O	9.03	130.12	120.55
2	8-O	3	THR	CA-C-O	9.03	131.31	121.11
5	8-S	274	ARG	CA-C-O	9.03	130.12	120.55
4	1-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	1-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	1-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	1-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	2-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	2-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	2-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	2-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	3-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	3-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	3-X	489	LYS	CA-C-N	-9.03	106.59	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	4-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	4-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	4-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	4-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	5-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	5-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	5-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	5-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	6-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	6-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	6-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	6-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	7-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	7-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	7-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	7-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	8-L	489	LYS	CA-C-N	-9.03	106.59	120.31
4	8-L	489	LYS	C-N-CA	-9.03	106.59	120.31
4	8-X	489	LYS	CA-C-N	-9.03	106.59	120.31
4	8-X	489	LYS	C-N-CA	-9.03	106.59	120.31
4	1-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	2-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	3-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	4-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	5-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	6-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	7-X	327	MET	CB-CA-C	-9.02	91.56	109.33
4	8-X	327	MET	CB-CA-C	-9.02	91.56	109.33
2	1-C	383	THR	CA-C-N	9.02	133.73	120.83
2	1-C	383	THR	C-N-CA	9.02	133.73	120.83
4	1-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	1-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	2-C	383	THR	CA-C-N	9.02	133.73	120.83
2	2-C	383	THR	C-N-CA	9.02	133.73	120.83
4	2-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	2-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	3-C	383	THR	CA-C-N	9.02	133.73	120.83
2	3-C	383	THR	C-N-CA	9.02	133.73	120.83
4	3-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	3-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	4-C	383	THR	CA-C-N	9.02	133.73	120.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	383	THR	C-N-CA	9.02	133.73	120.83
4	4-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	4-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	5-C	383	THR	CA-C-N	9.02	133.73	120.83
2	5-C	383	THR	C-N-CA	9.02	133.73	120.83
4	5-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	5-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	6-C	383	THR	CA-C-N	9.02	133.73	120.83
2	6-C	383	THR	C-N-CA	9.02	133.73	120.83
4	6-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	6-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	7-C	383	THR	CA-C-N	9.02	133.73	120.83
2	7-C	383	THR	C-N-CA	9.02	133.73	120.83
4	7-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	7-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	8-C	383	THR	CA-C-N	9.02	133.73	120.83
2	8-C	383	THR	C-N-CA	9.02	133.73	120.83
4	8-F	489	LYS	CA-C-N	-9.02	106.60	120.31
4	8-F	489	LYS	C-N-CA	-9.02	106.60	120.31
2	1-U	383	THR	CA-C-N	9.02	133.72	120.83
2	1-U	383	THR	C-N-CA	9.02	133.72	120.83
2	2-U	383	THR	CA-C-N	9.02	133.72	120.83
2	2-U	383	THR	C-N-CA	9.02	133.72	120.83
2	3-U	383	THR	CA-C-N	9.02	133.72	120.83
2	3-U	383	THR	C-N-CA	9.02	133.72	120.83
2	4-U	383	THR	CA-C-N	9.02	133.72	120.83
2	4-U	383	THR	C-N-CA	9.02	133.72	120.83
2	5-U	383	THR	CA-C-N	9.02	133.72	120.83
2	5-U	383	THR	C-N-CA	9.02	133.72	120.83
2	6-U	383	THR	CA-C-N	9.02	133.72	120.83
2	6-U	383	THR	C-N-CA	9.02	133.72	120.83
2	7-U	383	THR	CA-C-N	9.02	133.72	120.83
2	7-U	383	THR	C-N-CA	9.02	133.72	120.83
2	8-U	383	THR	CA-C-N	9.02	133.72	120.83
2	8-U	383	THR	C-N-CA	9.02	133.72	120.83
4	1-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	1-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	2-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	2-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	3-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	3-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	4-R	489	LYS	CA-C-N	-9.01	106.61	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	5-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	5-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	6-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	6-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	7-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	7-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	8-R	489	LYS	CA-C-N	-9.01	106.61	120.31
4	8-R	489	LYS	C-N-CA	-9.01	106.61	120.31
4	1-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	1-O	383	THR	CA-C-N	9.01	133.72	120.83
2	1-O	383	THR	C-N-CA	9.01	133.72	120.83
4	2-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	2-O	383	THR	CA-C-N	9.01	133.72	120.83
2	2-O	383	THR	C-N-CA	9.01	133.72	120.83
4	3-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	3-O	383	THR	CA-C-N	9.01	133.72	120.83
2	3-O	383	THR	C-N-CA	9.01	133.72	120.83
4	4-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	4-O	383	THR	CA-C-N	9.01	133.72	120.83
2	4-O	383	THR	C-N-CA	9.01	133.72	120.83
4	5-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	5-O	383	THR	CA-C-N	9.01	133.72	120.83
2	5-O	383	THR	C-N-CA	9.01	133.72	120.83
4	6-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	6-O	383	THR	CA-C-N	9.01	133.72	120.83
2	6-O	383	THR	C-N-CA	9.01	133.72	120.83
4	7-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	7-O	383	THR	CA-C-N	9.01	133.72	120.83
2	7-O	383	THR	C-N-CA	9.01	133.72	120.83
4	8-L	327	MET	CB-CA-C	-9.01	91.58	109.33
2	8-O	383	THR	CA-C-N	9.01	133.72	120.83
2	8-O	383	THR	C-N-CA	9.01	133.72	120.83
4	1-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	1-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	1-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	2-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	2-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	2-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	3-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	3-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	3-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	4-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	4-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	5-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	5-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	5-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	6-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	6-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	6-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	7-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	7-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	7-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	8-R	327	MET	CB-CA-C	-9.01	91.58	109.33
5	8-Y	274	ARG	CA-C-O	9.01	130.10	120.55
6	8-Z	381	LYS	N-CA-CB	-9.01	96.32	110.28
4	1-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	2-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	3-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	4-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	5-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	6-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	7-F	327	MET	CB-CA-C	-9.01	91.59	109.33
4	8-F	327	MET	CB-CA-C	-9.01	91.59	109.33
5	1-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	2-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	3-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	4-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	5-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	6-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	7-G	274	ARG	CA-C-O	9.00	130.09	120.55
5	8-G	274	ARG	CA-C-O	9.00	130.09	120.55
2	1-I	3	THR	CA-C-O	9.00	131.28	121.11
5	1-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	2-I	3	THR	CA-C-O	9.00	131.28	121.11
5	2-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	3-I	3	THR	CA-C-O	9.00	131.28	121.11
5	3-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	4-I	3	THR	CA-C-O	9.00	131.28	121.11
5	4-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	5-I	3	THR	CA-C-O	9.00	131.28	121.11
5	5-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	6-I	3	THR	CA-C-O	9.00	131.28	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	7-I	3	THR	CA-C-O	9.00	131.28	121.11
5	7-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	8-I	3	THR	CA-C-O	9.00	131.28	121.11
5	8-M	274	ARG	CA-C-O	9.00	130.09	120.55
2	1-C	3	THR	CA-C-O	9.00	131.28	121.11
6	1-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	2-C	3	THR	CA-C-O	9.00	131.28	121.11
6	2-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	3-C	3	THR	CA-C-O	9.00	131.28	121.11
6	3-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	4-C	3	THR	CA-C-O	9.00	131.28	121.11
6	4-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	5-C	3	THR	CA-C-O	9.00	131.28	121.11
6	5-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	6-C	3	THR	CA-C-O	9.00	131.28	121.11
6	6-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	7-C	3	THR	CA-C-O	9.00	131.28	121.11
6	7-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
2	8-C	3	THR	CA-C-O	9.00	131.28	121.11
6	8-H	381	LYS	N-CA-CB	-9.00	96.33	110.28
4	1-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	2-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	3-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	4-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	5-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	6-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	7-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
4	8-X	485	LEU	N-CA-CB	-8.99	94.59	110.42
6	1-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	2-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	3-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	4-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	5-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	6-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	7-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	8-N	481	HIS	CB-CA-C	-8.99	96.76	110.88
6	1-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
6	2-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
6	3-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
6	4-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
6	5-T	381	LYS	N-CA-CB	-8.99	96.35	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
6	7-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
6	8-T	381	LYS	N-CA-CB	-8.99	96.35	110.28
3	1-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	2-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	3-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	4-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	5-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	6-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	7-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	8-D	1546	LEU	N-CA-C	8.99	122.05	111.71
3	1-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	2-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	3-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	4-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	5-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	6-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	7-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	8-J	1546	LEU	N-CA-C	8.99	122.04	111.71
3	1-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	2-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	3-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	4-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	5-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	6-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	7-V	1546	LEU	N-CA-C	8.98	122.04	111.71
3	8-V	1546	LEU	N-CA-C	8.98	122.04	111.71
6	1-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	2-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	3-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	4-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	5-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	6-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	7-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	8-N	381	LYS	N-CA-CB	-8.98	96.36	110.28
6	1-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
6	2-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
6	3-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
6	4-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
6	5-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
6	6-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
6	7-H	481	HIS	CB-CA-C	-8.98	96.78	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	481	HIS	CB-CA-C	-8.98	96.78	110.88
4	1-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	2-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	3-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	4-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	5-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	6-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	7-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
4	8-F	485	LEU	N-CA-CB	-8.97	94.63	110.42
6	1-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	1-V	1448	MET	O-C-N	8.97	131.63	122.12
6	2-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	2-V	1448	MET	O-C-N	8.97	131.63	122.12
6	3-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	3-V	1448	MET	O-C-N	8.97	131.63	122.12
6	4-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	4-V	1448	MET	O-C-N	8.97	131.63	122.12
6	5-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	5-V	1448	MET	O-C-N	8.97	131.63	122.12
6	6-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	6-V	1448	MET	O-C-N	8.97	131.63	122.12
6	7-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	7-V	1448	MET	O-C-N	8.97	131.63	122.12
6	8-T	481	HIS	CB-CA-C	-8.97	96.80	110.88
3	8-V	1448	MET	O-C-N	8.97	131.63	122.12
3	1-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	2-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	3-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	4-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	5-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	6-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	7-P	1546	LEU	N-CA-C	8.97	122.02	111.71
3	8-P	1546	LEU	N-CA-C	8.97	122.02	111.71
2	1-U	3	THR	CA-C-O	8.96	131.24	121.11
2	2-U	3	THR	CA-C-O	8.96	131.24	121.11
2	3-U	3	THR	CA-C-O	8.96	131.24	121.11
2	4-U	3	THR	CA-C-O	8.96	131.24	121.11
2	5-U	3	THR	CA-C-O	8.96	131.24	121.11
2	6-U	3	THR	CA-C-O	8.96	131.24	121.11
2	7-U	3	THR	CA-C-O	8.96	131.24	121.11
2	8-U	3	THR	CA-C-O	8.96	131.24	121.11
6	1-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
6	3-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
6	4-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
6	5-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
6	6-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
6	7-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
6	8-Z	481	HIS	CB-CA-C	-8.96	96.81	110.88
4	1-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	2-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	3-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	4-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	5-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	6-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	7-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	8-R	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	1-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	2-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	3-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	4-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	5-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	6-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	7-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
4	8-L	485	LEU	N-CA-CB	-8.96	94.66	110.42
3	1-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	1-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	2-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	2-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	3-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	3-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	4-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	4-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	5-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	5-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	6-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	6-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	7-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	7-J	1505	SER	C-N-CA	-8.95	107.71	120.42
3	8-J	1505	SER	CA-C-N	-8.95	107.71	120.42
3	8-J	1505	SER	C-N-CA	-8.95	107.71	120.42
6	1-N	494	LEU	O-C-N	8.94	134.48	122.59
4	1-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	1-X	469	GLN	C-N-CA	-8.94	106.29	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	494	LEU	O-C-N	8.94	134.48	122.59
4	2-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	2-X	469	GLN	C-N-CA	-8.94	106.29	120.60
6	3-N	494	LEU	O-C-N	8.94	134.48	122.59
4	3-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	3-X	469	GLN	C-N-CA	-8.94	106.29	120.60
6	4-N	494	LEU	O-C-N	8.94	134.48	122.59
4	4-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	4-X	469	GLN	C-N-CA	-8.94	106.29	120.60
6	5-N	494	LEU	O-C-N	8.94	134.48	122.59
4	5-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	5-X	469	GLN	C-N-CA	-8.94	106.29	120.60
6	6-N	494	LEU	O-C-N	8.94	134.48	122.59
4	6-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	6-X	469	GLN	C-N-CA	-8.94	106.29	120.60
6	7-N	494	LEU	O-C-N	8.94	134.48	122.59
4	7-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	7-X	469	GLN	C-N-CA	-8.94	106.29	120.60
6	8-N	494	LEU	O-C-N	8.94	134.48	122.59
4	8-X	469	GLN	CA-C-N	-8.94	106.29	120.60
4	8-X	469	GLN	C-N-CA	-8.94	106.29	120.60
4	1-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	1-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	2-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	2-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	3-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	3-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	4-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	4-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	5-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	5-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	6-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	6-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	7-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	7-L	469	GLN	C-N-CA	-8.94	106.30	120.60
4	8-L	469	GLN	CA-C-N	-8.94	106.30	120.60
4	8-L	469	GLN	C-N-CA	-8.94	106.30	120.60
3	1-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	1-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	1-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	2-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	2-P	1505	SER	C-N-CA	-8.93	107.74	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	3-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	3-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	3-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	4-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	4-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	4-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	5-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	5-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	5-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	6-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	6-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	6-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	7-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	7-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	7-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	8-P	1505	SER	CA-C-N	-8.93	107.74	120.42
3	8-P	1505	SER	C-N-CA	-8.93	107.74	120.42
4	8-X	403	ILE	CA-C-O	8.93	131.95	120.78
3	1-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	1-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	1-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	1-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	2-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	2-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	2-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	2-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	3-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	3-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	3-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	3-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	4-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	4-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	4-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	4-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	5-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	5-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	5-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	5-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	6-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	6-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	6-R	469	GLN	CA-C-N	-8.93	106.31	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	7-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	7-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	7-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	7-R	469	GLN	C-N-CA	-8.93	106.31	120.60
3	8-D	1505	SER	CA-C-N	-8.93	107.74	120.42
3	8-D	1505	SER	C-N-CA	-8.93	107.74	120.42
4	8-R	469	GLN	CA-C-N	-8.93	106.31	120.60
4	8-R	469	GLN	C-N-CA	-8.93	106.31	120.60
4	1-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	1-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	2-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	2-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	3-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	3-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	4-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	4-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	5-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	5-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	6-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	6-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	7-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	7-F	469	GLN	C-N-CA	-8.93	106.32	120.60
4	8-F	469	GLN	CA-C-N	-8.93	106.32	120.60
4	8-F	469	GLN	C-N-CA	-8.93	106.32	120.60
3	1-P	1448	MET	O-C-N	8.93	131.58	122.12
3	2-P	1448	MET	O-C-N	8.93	131.58	122.12
3	3-P	1448	MET	O-C-N	8.93	131.58	122.12
3	4-P	1448	MET	O-C-N	8.93	131.58	122.12
3	5-P	1448	MET	O-C-N	8.93	131.58	122.12
3	6-P	1448	MET	O-C-N	8.93	131.58	122.12
3	7-P	1448	MET	O-C-N	8.93	131.58	122.12
3	8-P	1448	MET	O-C-N	8.93	131.58	122.12
3	1-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	2-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	3-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	4-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	5-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	6-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	7-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	8-J	1665	VAL	N-CA-C	-8.92	99.90	111.05
3	1-V	1505	SER	CA-C-N	-8.91	107.76	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	2-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	2-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	3-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	3-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	4-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	4-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	5-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	5-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	6-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	6-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	7-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	7-V	1505	SER	C-N-CA	-8.91	107.76	120.42
3	8-V	1505	SER	CA-C-N	-8.91	107.76	120.42
3	8-V	1505	SER	C-N-CA	-8.91	107.76	120.42
6	1-T	494	LEU	O-C-N	8.91	134.44	122.59
6	2-T	494	LEU	O-C-N	8.91	134.44	122.59
6	3-T	494	LEU	O-C-N	8.91	134.44	122.59
6	4-T	494	LEU	O-C-N	8.91	134.44	122.59
6	5-T	494	LEU	O-C-N	8.91	134.44	122.59
6	6-T	494	LEU	O-C-N	8.91	134.44	122.59
6	7-T	494	LEU	O-C-N	8.91	134.44	122.59
6	8-T	494	LEU	O-C-N	8.91	134.44	122.59
6	1-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	2-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	3-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	4-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	5-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	6-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	7-N	501	GLU	N-CA-C	8.91	123.92	112.34
6	8-N	501	GLU	N-CA-C	8.91	123.92	112.34
3	1-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	2-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	3-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	4-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	5-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	6-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	7-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
3	8-V	1665	VAL	N-CA-C	-8.91	99.92	111.05
6	1-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	2-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	3-Z	501	GLU	N-CA-C	8.90	123.91	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	5-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	6-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	7-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	8-Z	501	GLU	N-CA-C	8.90	123.91	112.34
6	1-H	494	LEU	O-C-N	8.90	134.42	122.59
6	2-H	494	LEU	O-C-N	8.90	134.42	122.59
6	3-H	494	LEU	O-C-N	8.90	134.42	122.59
6	4-H	494	LEU	O-C-N	8.90	134.42	122.59
6	5-H	494	LEU	O-C-N	8.90	134.42	122.59
6	6-H	494	LEU	O-C-N	8.90	134.42	122.59
6	7-H	494	LEU	O-C-N	8.90	134.42	122.59
6	8-H	494	LEU	O-C-N	8.90	134.42	122.59
4	1-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	1-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	2-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	2-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	3-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	3-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	4-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	4-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	5-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	5-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	6-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	6-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	7-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	7-X	451	GLU	C-N-CA	-8.89	104.55	121.54
4	8-X	451	GLU	CA-C-N	-8.89	104.55	121.54
4	8-X	451	GLU	C-N-CA	-8.89	104.55	121.54
3	1-D	1448	MET	O-C-N	8.89	131.54	122.12
4	1-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	1-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	2-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	3-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	4-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	5-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	6-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	7-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	8-L	451	GLU	CA-C-N	-8.89	104.56	121.54
4	1-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	1-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	2-D	1448	MET	O-C-N	8.89	131.54	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	2-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	2-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	3-D	1448	MET	O-C-N	8.89	131.54	122.12
4	3-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	3-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	3-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	4-D	1448	MET	O-C-N	8.89	131.54	122.12
4	4-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	4-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	4-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	5-D	1448	MET	O-C-N	8.89	131.54	122.12
4	5-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	5-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	5-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	6-D	1448	MET	O-C-N	8.89	131.54	122.12
4	6-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	6-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	6-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	7-D	1448	MET	O-C-N	8.89	131.54	122.12
4	7-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	7-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	7-Z	494	LEU	O-C-N	8.89	134.41	122.59
3	8-D	1448	MET	O-C-N	8.89	131.54	122.12
4	8-L	451	GLU	C-N-CA	-8.89	104.56	121.54
4	8-L	403	ILE	CA-C-O	8.89	131.89	120.78
6	8-Z	494	LEU	O-C-N	8.89	134.41	122.59
4	1-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	1-H	501	GLU	N-CA-C	8.88	123.89	112.34
4	2-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	2-H	501	GLU	N-CA-C	8.88	123.89	112.34
4	1-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	1-F	451	GLU	C-N-CA	-8.88	104.58	121.54
3	1-J	1448	MET	O-C-N	8.88	131.53	122.12
4	1-L	367	THR	CA-C-O	-8.88	108.30	119.31
3	2-J	1448	MET	O-C-N	8.88	131.53	122.12
4	2-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	3-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	3-H	501	GLU	N-CA-C	8.88	123.89	112.34
3	3-J	1448	MET	O-C-N	8.88	131.53	122.12
4	3-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	4-F	403	ILE	CA-C-O	8.88	131.88	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	501	GLU	N-CA-C	8.88	123.89	112.34
3	4-J	1448	MET	O-C-N	8.88	131.53	122.12
4	4-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	5-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	5-H	501	GLU	N-CA-C	8.88	123.89	112.34
3	5-J	1448	MET	O-C-N	8.88	131.53	122.12
4	5-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	6-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	6-H	501	GLU	N-CA-C	8.88	123.89	112.34
3	6-J	1448	MET	O-C-N	8.88	131.53	122.12
4	6-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	7-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	7-H	501	GLU	N-CA-C	8.88	123.89	112.34
3	7-J	1448	MET	O-C-N	8.88	131.53	122.12
4	7-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	8-F	403	ILE	CA-C-O	8.88	131.88	120.78
6	8-H	501	GLU	N-CA-C	8.88	123.89	112.34
3	8-J	1448	MET	O-C-N	8.88	131.53	122.12
4	8-L	367	THR	CA-C-O	-8.88	108.30	119.31
4	1-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	1-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	2-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	2-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	2-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	2-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	3-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	3-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	3-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	3-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	4-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	4-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	4-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	4-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	5-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	5-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	5-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	5-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	6-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	6-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	6-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	6-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	7-F	451	GLU	CA-C-N	-8.88	104.58	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	7-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	7-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	8-F	451	GLU	CA-C-N	-8.88	104.58	121.54
4	8-F	451	GLU	C-N-CA	-8.88	104.58	121.54
4	8-R	403	ILE	CA-C-O	8.88	131.88	120.78
6	8-T	501	GLU	N-CA-C	8.88	123.89	112.34
4	1-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	1-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	2-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	2-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	3-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	3-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	4-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	4-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	5-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	5-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	6-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	6-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	7-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	7-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	8-R	451	GLU	CA-C-N	-8.88	104.59	121.54
4	8-R	451	GLU	C-N-CA	-8.88	104.59	121.54
4	1-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	2-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	3-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	4-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	5-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	6-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	7-R	367	THR	CA-C-O	-8.87	108.32	119.31
4	8-R	367	THR	CA-C-O	-8.87	108.32	119.31
3	1-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	2-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	3-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	4-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	5-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	6-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	7-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	8-P	1665	VAL	N-CA-C	-8.86	99.97	111.05
3	1-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	1-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	2-V	1507	ASP	CA-C-N	8.86	138.46	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	3-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	3-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	4-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	4-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	5-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	5-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	6-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	6-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	7-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	7-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	8-V	1507	ASP	CA-C-N	8.86	138.46	121.54
3	8-V	1507	ASP	C-N-CA	8.86	138.46	121.54
3	1-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	1-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	2-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	2-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	3-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	3-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	4-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	4-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	5-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	5-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	6-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	6-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	7-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	7-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	8-D	1665	VAL	N-CA-C	-8.85	99.98	111.05
4	8-X	367	THR	CA-C-O	-8.85	108.33	119.31
3	1-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	1-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	1-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	2-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	2-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	2-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	3-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	3-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	3-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	4-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	4-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	4-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	5-J	879	LEU	N-CA-C	8.85	122.08	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	5-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	6-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	6-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	6-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	7-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	7-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	7-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	8-J	879	LEU	N-CA-C	8.85	122.08	111.82
3	8-P	1507	ASP	CA-C-N	8.85	138.44	121.54
3	8-P	1507	ASP	C-N-CA	8.85	138.44	121.54
3	1-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	2-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	3-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	4-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	5-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	6-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	7-V	241	LEU	N-CA-C	8.84	120.53	111.07
3	8-V	241	LEU	N-CA-C	8.84	120.53	111.07
4	1-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	2-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	3-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	4-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	5-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	6-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	7-F	367	THR	CA-C-O	-8.84	108.35	119.31
4	8-F	367	THR	CA-C-O	-8.84	108.35	119.31
3	1-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	1-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	1-V	879	LEU	N-CA-C	8.84	122.07	111.82
3	2-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	2-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	2-V	879	LEU	N-CA-C	8.84	122.07	111.82
3	3-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	3-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	3-V	879	LEU	N-CA-C	8.84	122.07	111.82
3	4-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	4-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	4-V	879	LEU	N-CA-C	8.84	122.07	111.82
3	5-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	5-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	5-V	879	LEU	N-CA-C	8.84	122.07	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	6-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	6-V	879	LEU	N-CA-C	8.84	122.07	111.82
3	7-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	7-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	7-V	879	LEU	N-CA-C	8.84	122.07	111.82
3	8-D	1507	ASP	CA-C-N	8.84	138.42	121.54
3	8-D	1507	ASP	C-N-CA	8.84	138.42	121.54
3	8-V	879	LEU	N-CA-C	8.84	122.07	111.82
5	1-M	381	THR	N-CA-C	8.84	129.34	109.81
5	2-M	381	THR	N-CA-C	8.84	129.34	109.81
5	3-M	381	THR	N-CA-C	8.84	129.34	109.81
5	4-M	381	THR	N-CA-C	8.84	129.34	109.81
5	5-M	381	THR	N-CA-C	8.84	129.34	109.81
5	6-M	381	THR	N-CA-C	8.84	129.34	109.81
5	7-M	381	THR	N-CA-C	8.84	129.34	109.81
5	8-M	381	THR	N-CA-C	8.84	129.34	109.81
3	1-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	1-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	2-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	2-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	3-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	3-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	4-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	4-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	5-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	5-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	6-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	6-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	7-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	7-J	1507	ASP	C-N-CA	8.83	138.41	121.54
3	8-J	1507	ASP	CA-C-N	8.83	138.41	121.54
3	8-J	1507	ASP	C-N-CA	8.83	138.41	121.54
4	1-X	415	ASP	O-C-N	8.83	131.48	122.12
4	2-X	415	ASP	O-C-N	8.83	131.48	122.12
4	3-X	415	ASP	O-C-N	8.83	131.48	122.12
4	4-X	415	ASP	O-C-N	8.83	131.48	122.12
4	5-X	415	ASP	O-C-N	8.83	131.48	122.12
4	6-X	415	ASP	O-C-N	8.83	131.48	122.12
4	7-X	415	ASP	O-C-N	8.83	131.48	122.12
4	8-X	415	ASP	O-C-N	8.83	131.48	122.12
5	1-S	401	ALA	N-CA-CB	8.83	123.09	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	401	ALA	N-CA-CB	8.83	123.09	109.94
5	3-S	401	ALA	N-CA-CB	8.83	123.09	109.94
5	4-S	401	ALA	N-CA-CB	8.83	123.09	109.94
5	5-S	401	ALA	N-CA-CB	8.83	123.09	109.94
5	6-S	401	ALA	N-CA-CB	8.83	123.09	109.94
5	7-S	401	ALA	N-CA-CB	8.83	123.09	109.94
5	8-S	401	ALA	N-CA-CB	8.83	123.09	109.94
2	1-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	2-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	3-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	4-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	5-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	6-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	7-O	7	GLY	N-CA-C	-8.82	92.27	113.18
2	8-O	7	GLY	N-CA-C	-8.82	92.27	113.18
3	1-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	2-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	3-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	4-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	5-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	6-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	7-J	241	LEU	N-CA-C	8.82	120.51	111.07
3	8-J	241	LEU	N-CA-C	8.82	120.51	111.07
5	1-S	381	THR	N-CA-C	8.82	129.29	109.81
1	1-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	1-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	1-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	2-S	381	THR	N-CA-C	8.82	129.29	109.81
1	2-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	2-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	2-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	3-S	381	THR	N-CA-C	8.82	129.29	109.81
1	3-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	3-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	3-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	4-S	381	THR	N-CA-C	8.82	129.29	109.81
1	4-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	4-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	4-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	5-S	381	THR	N-CA-C	8.82	129.29	109.81
1	5-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	5-W	1343	ASN	C-N-CA	8.82	131.90	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	6-S	381	THR	N-CA-C	8.82	129.29	109.81
1	6-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	6-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	6-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	7-S	381	THR	N-CA-C	8.82	129.29	109.81
1	7-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	7-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	7-Y	381	THR	N-CA-C	8.82	129.29	109.81
5	8-S	381	THR	N-CA-C	8.82	129.29	109.81
1	8-W	1343	ASN	CA-C-N	8.82	131.90	120.44
1	8-W	1343	ASN	C-N-CA	8.82	131.90	120.44
5	8-Y	381	THR	N-CA-C	8.82	129.29	109.81
3	1-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	1-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	1-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	2-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	2-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	2-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	3-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	3-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	3-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	4-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	4-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	4-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	5-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	5-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	5-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	6-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	6-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	6-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	7-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	7-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	7-U	7	GLY	N-CA-C	-8.81	92.29	113.18
3	8-D	879	LEU	N-CA-C	8.81	122.04	111.82
3	8-P	879	LEU	N-CA-C	8.81	122.04	111.82
2	8-U	7	GLY	N-CA-C	-8.81	92.29	113.18
5	1-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	1-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	2-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	2-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	3-M	256	GLU	N-CA-C	-8.80	100.54	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	4-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	4-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	5-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	5-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	6-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	6-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	7-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	7-Y	322	ALA	O-C-N	8.80	131.45	122.12
5	8-M	256	GLU	N-CA-C	-8.80	100.54	111.11
5	8-Y	322	ALA	O-C-N	8.80	131.45	122.12
3	1-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	1-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	1-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	2-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	2-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	2-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	3-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	3-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	3-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	4-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	4-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	4-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	5-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	5-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	5-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	6-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	6-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	6-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	7-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	7-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	7-M	401	ALA	N-CA-CB	8.80	123.06	109.94
3	8-D	241	LEU	N-CA-C	8.80	120.49	111.07
2	8-I	7	GLY	N-CA-C	-8.80	92.32	113.18
5	8-M	401	ALA	N-CA-CB	8.80	123.06	109.94
4	1-L	415	ASP	O-C-N	8.80	131.45	122.12
4	2-L	415	ASP	O-C-N	8.80	131.45	122.12
4	3-L	415	ASP	O-C-N	8.80	131.45	122.12
4	4-L	415	ASP	O-C-N	8.80	131.45	122.12
4	5-L	415	ASP	O-C-N	8.80	131.45	122.12
4	6-L	415	ASP	O-C-N	8.80	131.45	122.12
4	7-L	415	ASP	O-C-N	8.80	131.45	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	415	ASP	O-C-N	8.80	131.45	122.12
4	1-R	454	TYR	O-C-N	8.80	134.29	122.59
5	1-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	1-P	241	LEU	N-CA-C	8.80	120.48	111.07
5	2-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	2-P	241	LEU	N-CA-C	8.80	120.48	111.07
4	2-R	454	TYR	O-C-N	8.80	134.29	122.59
4	3-R	454	TYR	O-C-N	8.80	134.29	122.59
5	3-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	3-P	241	LEU	N-CA-C	8.80	120.48	111.07
5	4-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	4-P	241	LEU	N-CA-C	8.80	120.48	111.07
4	4-R	454	TYR	O-C-N	8.80	134.29	122.59
4	5-R	454	TYR	O-C-N	8.80	134.29	122.59
5	5-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	5-P	241	LEU	N-CA-C	8.80	120.48	111.07
5	6-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	6-P	241	LEU	N-CA-C	8.80	120.48	111.07
4	6-R	454	TYR	O-C-N	8.80	134.29	122.59
4	7-R	454	TYR	O-C-N	8.80	134.29	122.59
5	7-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	7-P	241	LEU	N-CA-C	8.80	120.48	111.07
5	8-G	401	ALA	N-CA-CB	8.80	123.05	109.94
3	8-P	241	LEU	N-CA-C	8.80	120.48	111.07
4	8-R	454	TYR	O-C-N	8.80	134.29	122.59
2	1-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	1-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	1-G	381	THR	N-CA-C	8.80	129.25	109.81
4	1-R	415	ASP	O-C-N	8.79	131.44	122.12
2	2-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	2-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	2-G	381	THR	N-CA-C	8.80	129.25	109.81
4	2-R	415	ASP	O-C-N	8.79	131.44	122.12
2	3-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	3-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	3-G	381	THR	N-CA-C	8.80	129.25	109.81
4	3-R	415	ASP	O-C-N	8.79	131.44	122.12
2	4-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	4-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	4-G	381	THR	N-CA-C	8.80	129.25	109.81
4	4-R	415	ASP	O-C-N	8.79	131.44	122.12
2	5-C	7	GLY	N-CA-C	-8.80	92.33	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	5-G	381	THR	N-CA-C	8.80	129.25	109.81
4	5-R	415	ASP	O-C-N	8.79	131.44	122.12
2	6-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	6-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	6-G	381	THR	N-CA-C	8.80	129.25	109.81
4	6-R	415	ASP	O-C-N	8.79	131.44	122.12
2	7-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	7-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	7-G	381	THR	N-CA-C	8.80	129.25	109.81
4	7-R	415	ASP	O-C-N	8.79	131.44	122.12
2	8-C	7	GLY	N-CA-C	-8.80	92.33	113.18
5	8-G	256	GLU	N-CA-C	-8.79	100.56	111.11
5	8-G	381	THR	N-CA-C	8.80	129.25	109.81
4	8-R	415	ASP	O-C-N	8.79	131.44	122.12
6	1-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	1-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	1-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	1-S	322	ALA	O-C-N	8.79	131.44	122.12
6	2-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	2-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	2-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	2-S	322	ALA	O-C-N	8.79	131.44	122.12
6	3-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	3-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	3-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	3-S	322	ALA	O-C-N	8.79	131.44	122.12
6	4-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	4-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	4-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	4-S	322	ALA	O-C-N	8.79	131.44	122.12
6	5-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	5-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	5-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	5-S	322	ALA	O-C-N	8.79	131.44	122.12
6	6-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	6-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	6-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	6-S	322	ALA	O-C-N	8.79	131.44	122.12
6	7-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	7-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	7-S	256	GLU	N-CA-C	-8.79	100.56	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	322	ALA	O-C-N	8.79	131.44	122.12
6	8-N	369	GLY	CA-C-N	8.79	132.40	120.44
6	8-N	369	GLY	C-N-CA	8.79	132.40	120.44
5	8-S	256	GLU	N-CA-C	-8.79	100.56	111.11
5	8-S	322	ALA	O-C-N	8.79	131.44	122.12
5	2-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
5	3-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
5	4-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
4	1-F	454	TYR	O-C-N	8.79	134.28	122.59
1	1-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	1-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
5	1-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
4	2-F	454	TYR	O-C-N	8.79	134.28	122.59
1	2-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	2-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
4	3-F	454	TYR	O-C-N	8.79	134.28	122.59
1	3-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	3-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
5	7-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
4	4-F	454	TYR	O-C-N	8.79	134.28	122.59
1	4-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	4-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
5	6-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
4	5-F	454	TYR	O-C-N	8.79	134.28	122.59
1	5-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	5-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
5	5-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
4	6-F	454	TYR	O-C-N	8.79	134.28	122.59
1	6-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	6-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
4	7-F	454	TYR	O-C-N	8.79	134.28	122.59
1	7-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	7-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
4	8-F	454	TYR	O-C-N	8.79	134.28	122.59
1	8-Q	1343	ASN	CA-C-N	8.79	131.86	120.44
1	8-Q	1343	ASN	C-N-CA	8.79	131.86	120.44
5	8-Y	401	ALA	N-CA-CB	8.79	123.04	109.94
6	1-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	1-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	2-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	2-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	3-Z	369	GLY	CA-C-N	8.79	132.39	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	4-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	4-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	5-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	5-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	6-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	6-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	7-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	7-Z	369	GLY	C-N-CA	8.79	132.39	120.44
6	8-Z	369	GLY	CA-C-N	8.79	132.39	120.44
6	8-Z	369	GLY	C-N-CA	8.79	132.39	120.44
1	1-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	1-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	1-M	322	ALA	O-C-N	8.78	131.42	122.12
1	2-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	2-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	2-M	322	ALA	O-C-N	8.78	131.42	122.12
1	3-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	3-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	3-M	322	ALA	O-C-N	8.78	131.42	122.12
1	4-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	4-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	4-M	322	ALA	O-C-N	8.78	131.42	122.12
1	5-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	5-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	5-M	322	ALA	O-C-N	8.78	131.42	122.12
1	6-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	6-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	6-M	322	ALA	O-C-N	8.78	131.42	122.12
1	7-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	7-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	7-M	322	ALA	O-C-N	8.78	131.42	122.12
1	8-K	1343	ASN	CA-C-N	8.78	131.85	120.44
1	8-K	1343	ASN	C-N-CA	8.78	131.85	120.44
5	8-M	322	ALA	O-C-N	8.78	131.42	122.12
1	1-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	1-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	1-G	322	ALA	O-C-N	8.77	131.42	122.12
1	2-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	2-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	2-G	322	ALA	O-C-N	8.77	131.42	122.12
1	3-E	1343	ASN	CA-C-N	8.77	131.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	3-G	322	ALA	O-C-N	8.77	131.42	122.12
1	4-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	4-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	4-G	322	ALA	O-C-N	8.77	131.42	122.12
1	5-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	5-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	5-G	322	ALA	O-C-N	8.77	131.42	122.12
1	6-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	6-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	6-G	322	ALA	O-C-N	8.77	131.42	122.12
1	7-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	7-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	7-G	322	ALA	O-C-N	8.77	131.42	122.12
1	8-E	1343	ASN	CA-C-N	8.77	131.85	120.44
1	8-E	1343	ASN	C-N-CA	8.77	131.85	120.44
5	8-G	322	ALA	O-C-N	8.77	131.42	122.12
4	1-L	454	TYR	O-C-N	8.77	134.26	122.59
4	2-L	454	TYR	O-C-N	8.77	134.26	122.59
4	3-L	454	TYR	O-C-N	8.77	134.26	122.59
4	4-L	454	TYR	O-C-N	8.77	134.26	122.59
4	5-L	454	TYR	O-C-N	8.77	134.26	122.59
4	6-L	454	TYR	O-C-N	8.77	134.26	122.59
4	7-L	454	TYR	O-C-N	8.77	134.26	122.59
4	8-L	454	TYR	O-C-N	8.77	134.26	122.59
6	1-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	1-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	1-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	2-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	2-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	2-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	3-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	3-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	3-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	4-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	4-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	4-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	5-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	5-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	5-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	6-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	6-H	369	GLY	C-N-CA	8.77	132.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	7-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	7-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	7-N	474	ILE	N-CA-CB	8.77	122.46	110.54
6	8-H	369	GLY	CA-C-N	8.77	132.36	120.44
6	8-H	369	GLY	C-N-CA	8.77	132.36	120.44
6	8-N	474	ILE	N-CA-CB	8.77	122.46	110.54
5	1-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	2-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	3-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	4-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	5-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	6-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	7-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
5	8-Y	256	GLU	N-CA-C	-8.76	100.59	111.11
6	1-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	1-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	1-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	2-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	2-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	2-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	3-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	3-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	3-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	4-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	4-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	4-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	5-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	5-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	5-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	6-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	6-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	6-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	7-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	7-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	7-T	474	ILE	N-CA-CB	8.76	122.45	110.54
6	8-T	369	GLY	CA-C-N	8.76	132.35	120.44
6	8-T	369	GLY	C-N-CA	8.76	132.35	120.44
6	8-T	474	ILE	N-CA-CB	8.76	122.45	110.54
4	1-F	415	ASP	O-C-N	8.76	131.40	122.12
6	1-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	2-F	415	ASP	O-C-N	8.76	131.40	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	3-F	415	ASP	O-C-N	8.76	131.40	122.12
6	3-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	4-F	415	ASP	O-C-N	8.76	131.40	122.12
6	4-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	5-F	415	ASP	O-C-N	8.76	131.40	122.12
6	5-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	6-F	415	ASP	O-C-N	8.76	131.40	122.12
6	6-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	7-F	415	ASP	O-C-N	8.76	131.40	122.12
6	7-H	474	ILE	N-CA-CB	8.76	122.45	110.54
4	8-F	415	ASP	O-C-N	8.76	131.40	122.12
6	8-H	474	ILE	N-CA-CB	8.76	122.45	110.54
6	1-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	1-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	1-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	1-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	2-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	2-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	2-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	2-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	3-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	3-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	3-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	3-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	4-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	4-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	4-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	4-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	5-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	5-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	5-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	5-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	6-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	6-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	6-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	6-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	7-N	415	LYS	CA-C-N	-8.75	107.21	122.79
6	7-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	7-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	7-T	415	LYS	C-N-CA	-8.75	107.22	122.79
6	8-N	415	LYS	CA-C-N	-8.75	107.21	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	415	LYS	C-N-CA	-8.75	107.21	122.79
6	8-T	415	LYS	CA-C-N	-8.75	107.22	122.79
6	8-T	415	LYS	C-N-CA	-8.75	107.22	122.79
4	1-X	454	TYR	O-C-N	8.75	134.22	122.59
6	1-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	2-X	454	TYR	O-C-N	8.75	134.22	122.59
6	2-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	3-X	454	TYR	O-C-N	8.75	134.22	122.59
6	3-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	4-X	454	TYR	O-C-N	8.75	134.22	122.59
6	4-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	5-X	454	TYR	O-C-N	8.75	134.22	122.59
6	5-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	6-X	454	TYR	O-C-N	8.75	134.22	122.59
6	6-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	7-X	454	TYR	O-C-N	8.75	134.22	122.59
6	7-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
4	8-X	454	TYR	O-C-N	8.75	134.22	122.59
6	8-Z	474	ILE	N-CA-CB	8.75	122.44	110.54
6	1-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	1-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	2-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	2-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	3-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	3-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	4-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	4-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	5-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	5-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	6-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	6-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	7-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	7-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
6	8-Z	415	LYS	CA-C-N	-8.74	107.23	122.79
6	8-Z	415	LYS	C-N-CA	-8.74	107.23	122.79
3	1-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	2-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	3-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	4-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	5-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	6-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	7-P	1480	VAL	CA-C-O	-8.74	111.91	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1480	VAL	CA-C-O	-8.74	111.91	121.17
3	1-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	2-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	3-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	4-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	5-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	6-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	7-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
3	8-J	1480	VAL	CA-C-O	-8.73	111.91	121.17
6	1-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	1-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	2-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	2-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	3-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	3-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	4-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	4-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	5-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	5-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	6-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	6-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	7-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	7-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	8-H	415	LYS	CA-C-N	-8.72	107.26	122.79
6	8-H	415	LYS	C-N-CA	-8.72	107.26	122.79
6	1-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	2-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	3-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	4-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	5-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	6-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	7-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	8-T	414	VAL	O-C-N	-8.72	112.85	121.83
6	1-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	2-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	3-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	4-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	5-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	6-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	7-H	414	VAL	O-C-N	-8.68	112.89	121.83
6	8-H	414	VAL	O-C-N	-8.68	112.89	121.83
5	1-S	338	GLU	CB-CA-C	8.68	123.20	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	3-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	4-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	5-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	6-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	7-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	8-S	338	GLU	CB-CA-C	8.68	123.20	111.14
5	1-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	1-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	2-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	2-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	3-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	3-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	4-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	4-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	5-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	5-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	6-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	6-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	7-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	7-Z	414	VAL	O-C-N	-8.68	112.89	121.83
5	8-Y	331	THR	N-CA-C	8.68	125.48	113.16
6	8-Z	414	VAL	O-C-N	-8.68	112.89	121.83
3	1-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	2-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	3-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	4-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	5-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	6-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	7-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	8-D	1480	VAL	CA-C-O	-8.67	111.98	121.17
3	1-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	1-L	464	LYS	O-C-N	8.67	134.12	122.59
6	1-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	2-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	2-L	464	LYS	O-C-N	8.67	134.12	122.59
6	2-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	3-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	3-L	464	LYS	O-C-N	8.67	134.12	122.59
6	3-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	4-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	4-L	464	LYS	O-C-N	8.67	134.12	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	5-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	5-L	464	LYS	O-C-N	8.67	134.12	122.59
6	5-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	6-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	6-L	464	LYS	O-C-N	8.67	134.12	122.59
6	6-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	7-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	7-L	464	LYS	O-C-N	8.67	134.12	122.59
6	7-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
3	8-J	1415	GLN	N-CA-C	-8.67	101.96	112.54
4	8-L	464	LYS	O-C-N	8.67	134.12	122.59
6	8-N	366	ILE	CB-CA-C	-8.67	100.87	111.97
6	1-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	2-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	3-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	4-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	5-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	6-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	7-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	8-H	413	LEU	O-C-N	-8.67	112.73	122.09
6	1-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	1-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	2-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	2-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	3-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	3-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	4-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	4-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	5-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	5-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	6-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	6-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	7-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	7-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
6	8-H	366	ILE	CB-CA-C	-8.67	100.88	111.97
3	8-P	1415	GLN	N-CA-C	-8.67	101.97	112.54
4	1-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	1-X	464	LYS	O-C-N	8.66	134.12	122.59
4	3-X	464	LYS	O-C-N	8.66	134.12	122.59
4	4-X	464	LYS	O-C-N	8.66	134.12	122.59
4	5-X	464	LYS	O-C-N	8.66	134.12	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	464	LYS	O-C-N	8.66	134.12	122.59
4	1-F	464	LYS	O-C-N	8.66	134.11	122.59
5	1-M	331	THR	N-CA-C	8.66	125.46	113.16
3	1-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	2-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	2-X	464	LYS	O-C-N	8.66	134.12	122.59
4	3-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	6-X	464	LYS	O-C-N	8.66	134.12	122.59
4	7-X	464	LYS	O-C-N	8.66	134.12	122.59
4	2-F	464	LYS	O-C-N	8.66	134.11	122.59
5	2-M	331	THR	N-CA-C	8.66	125.46	113.16
3	2-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	5-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	3-F	464	LYS	O-C-N	8.66	134.11	122.59
5	3-M	331	THR	N-CA-C	8.66	125.46	113.16
3	3-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	4-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	4-F	464	LYS	O-C-N	8.66	134.11	122.59
5	4-M	331	THR	N-CA-C	8.66	125.46	113.16
3	4-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	7-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	5-F	464	LYS	O-C-N	8.66	134.11	122.59
5	5-M	331	THR	N-CA-C	8.66	125.46	113.16
3	5-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	6-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	6-F	464	LYS	O-C-N	8.66	134.11	122.59
5	6-M	331	THR	N-CA-C	8.66	125.46	113.16
3	6-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	7-F	464	LYS	O-C-N	8.66	134.11	122.59
5	7-M	331	THR	N-CA-C	8.66	125.46	113.16
3	7-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
4	8-F	447	VAL	CA-C-O	8.66	130.67	121.05
4	8-F	464	LYS	O-C-N	8.66	134.11	122.59
5	8-M	331	THR	N-CA-C	8.66	125.46	113.16
3	8-V	1415	GLN	N-CA-C	-8.66	101.97	112.54
3	1-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	1-R	464	LYS	O-C-N	8.66	134.10	122.59
3	2-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	2-R	464	LYS	O-C-N	8.66	134.10	122.59
3	3-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	3-R	464	LYS	O-C-N	8.66	134.10	122.59
3	4-D	1415	GLN	N-CA-C	-8.66	101.98	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	464	LYS	O-C-N	8.66	134.10	122.59
3	5-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	5-R	464	LYS	O-C-N	8.66	134.10	122.59
3	6-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	6-R	464	LYS	O-C-N	8.66	134.10	122.59
3	7-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	7-R	464	LYS	O-C-N	8.66	134.10	122.59
3	8-D	1415	GLN	N-CA-C	-8.66	101.98	112.54
4	8-R	464	LYS	O-C-N	8.66	134.10	122.59
6	1-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	2-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	3-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	4-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	5-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	6-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	7-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	8-T	413	LEU	O-C-N	-8.65	112.75	122.09
6	1-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	2-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	3-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	4-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	5-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	6-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	7-Z	413	LEU	O-C-N	-8.65	112.75	122.09
6	8-Z	413	LEU	O-C-N	-8.65	112.75	122.09
4	1-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	1-S	331	THR	N-CA-C	8.65	125.44	113.16
3	1-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	2-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	2-S	331	THR	N-CA-C	8.65	125.44	113.16
3	2-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	3-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	3-S	331	THR	N-CA-C	8.65	125.44	113.16
3	3-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	4-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	4-S	331	THR	N-CA-C	8.65	125.44	113.16
3	4-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	5-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	5-S	331	THR	N-CA-C	8.65	125.44	113.16
3	5-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	6-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	6-S	331	THR	N-CA-C	8.65	125.44	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	7-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	7-S	331	THR	N-CA-C	8.65	125.44	113.16
3	7-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
4	8-R	447	VAL	CA-C-O	8.65	130.65	121.05
5	8-S	331	THR	N-CA-C	8.65	125.44	113.16
3	8-V	1480	VAL	CA-C-O	-8.65	112.00	121.17
6	1-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	2-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	3-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	4-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	5-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	6-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	7-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	8-N	413	LEU	O-C-N	-8.65	112.75	122.09
6	1-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	2-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	3-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	4-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	5-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	6-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	7-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
6	8-T	366	ILE	CB-CA-C	-8.64	100.91	111.97
5	1-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	1-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	1-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	2-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	2-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	2-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	3-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	3-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	3-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	4-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	4-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	4-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	5-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	5-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	5-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	6-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	6-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	6-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	7-G	338	GLU	CB-CA-C	8.64	123.15	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	7-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	8-G	338	GLU	CB-CA-C	8.64	123.15	111.14
4	8-L	447	VAL	CA-C-O	8.64	130.64	121.05
4	8-X	447	VAL	CA-C-O	8.64	130.64	121.05
5	1-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	2-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	3-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	4-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	5-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	6-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	7-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	8-M	338	GLU	CB-CA-C	8.64	123.15	111.14
5	1-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	2-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	3-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	4-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	5-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	6-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	7-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
5	8-Y	338	GLU	CB-CA-C	8.64	123.14	111.14
6	1-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	2-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	3-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	4-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	5-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	6-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	7-N	414	VAL	O-C-N	-8.63	112.94	121.83
6	8-N	414	VAL	O-C-N	-8.63	112.94	121.83
5	1-G	331	THR	N-CA-C	8.63	125.41	113.16
5	2-G	331	THR	N-CA-C	8.63	125.41	113.16
5	3-G	331	THR	N-CA-C	8.63	125.41	113.16
5	4-G	331	THR	N-CA-C	8.63	125.41	113.16
5	5-G	331	THR	N-CA-C	8.63	125.41	113.16
5	6-G	331	THR	N-CA-C	8.63	125.41	113.16
5	7-G	331	THR	N-CA-C	8.63	125.41	113.16
5	8-G	331	THR	N-CA-C	8.63	125.41	113.16
6	1-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
6	2-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
6	3-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
6	4-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
6	5-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
6	7-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
6	8-Z	366	ILE	CB-CA-C	-8.62	100.93	111.97
5	1-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	2-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	3-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	4-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	5-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	6-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	7-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
5	8-Y	346	PHE	N-CA-CB	8.61	122.56	110.07
4	1-X	305	ASP	O-C-N	8.61	130.55	121.42
4	2-X	305	ASP	O-C-N	8.61	130.55	121.42
4	3-X	305	ASP	O-C-N	8.61	130.55	121.42
4	4-X	305	ASP	O-C-N	8.61	130.55	121.42
4	5-X	305	ASP	O-C-N	8.61	130.55	121.42
4	6-X	305	ASP	O-C-N	8.61	130.55	121.42
4	7-X	305	ASP	O-C-N	8.61	130.55	121.42
4	8-X	305	ASP	O-C-N	8.61	130.55	121.42
6	1-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	2-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	3-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	4-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	5-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	6-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	7-Z	366	ILE	CA-C-O	8.61	130.30	121.17
6	8-Z	366	ILE	CA-C-O	8.61	130.30	121.17
5	1-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	2-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	3-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	4-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	5-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	6-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	7-G	346	PHE	N-CA-CB	8.61	122.55	110.07
5	8-G	346	PHE	N-CA-CB	8.61	122.55	110.07
4	1-F	305	ASP	O-C-N	8.61	130.54	121.42
4	1-L	305	ASP	O-C-N	8.61	130.54	121.42
6	1-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	1-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	2-F	305	ASP	O-C-N	8.61	130.54	121.42
4	2-L	305	ASP	O-C-N	8.61	130.54	121.42
6	2-N	372	ILE	CA-C-N	8.61	132.33	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	3-F	305	ASP	O-C-N	8.61	130.54	121.42
4	3-L	305	ASP	O-C-N	8.61	130.54	121.42
6	3-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	3-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	4-F	305	ASP	O-C-N	8.61	130.54	121.42
4	4-L	305	ASP	O-C-N	8.61	130.54	121.42
6	4-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	4-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	5-F	305	ASP	O-C-N	8.61	130.54	121.42
4	5-L	305	ASP	O-C-N	8.61	130.54	121.42
6	5-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	5-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	6-F	305	ASP	O-C-N	8.61	130.54	121.42
4	6-L	305	ASP	O-C-N	8.61	130.54	121.42
6	6-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	6-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	7-F	305	ASP	O-C-N	8.61	130.54	121.42
4	7-L	305	ASP	O-C-N	8.61	130.54	121.42
6	7-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	7-N	372	ILE	C-N-CA	8.61	132.33	120.63
4	8-F	305	ASP	O-C-N	8.61	130.54	121.42
4	8-L	305	ASP	O-C-N	8.61	130.54	121.42
6	8-N	372	ILE	CA-C-N	8.61	132.33	120.63
6	8-N	372	ILE	C-N-CA	8.61	132.33	120.63
6	1-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	1-R	305	ASP	O-C-N	8.60	130.54	121.42
5	1-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	1-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	2-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	2-R	305	ASP	O-C-N	8.60	130.54	121.42
5	2-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	2-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	3-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	3-R	305	ASP	O-C-N	8.60	130.54	121.42
5	3-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	3-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	4-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	4-R	305	ASP	O-C-N	8.60	130.54	121.42
5	4-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	4-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	5-H	403	LEU	N-CA-C	-8.60	102.22	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	305	ASP	O-C-N	8.60	130.54	121.42
5	5-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	5-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	6-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	6-R	305	ASP	O-C-N	8.60	130.54	121.42
5	6-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	6-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	7-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	7-R	305	ASP	O-C-N	8.60	130.54	121.42
5	7-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	7-T	366	ILE	CA-C-O	8.60	130.29	121.17
6	8-H	403	LEU	N-CA-C	-8.60	102.22	112.89
4	8-R	305	ASP	O-C-N	8.60	130.54	121.42
5	8-S	346	PHE	N-CA-CB	8.60	122.55	110.07
6	8-T	366	ILE	CA-C-O	8.60	130.29	121.17
2	1-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	1-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	2-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	2-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	3-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	3-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	4-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	4-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	5-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	5-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	6-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	6-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	7-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	7-I	3	THR	C-N-CA	-8.60	108.92	122.08
2	8-I	3	THR	CA-C-N	-8.60	108.92	122.08
2	8-I	3	THR	C-N-CA	-8.60	108.92	122.08
6	1-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	2-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	3-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	4-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	5-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	6-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	7-H	370	GLU	N-CA-CB	8.60	122.54	110.07
6	8-H	370	GLU	N-CA-CB	8.60	122.54	110.07
2	1-O	3	THR	CA-C-N	-8.59	108.93	122.08
2	1-O	3	THR	C-N-CA	-8.59	108.93	122.08
2	2-O	3	THR	CA-C-N	-8.59	108.93	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-O	3	THR	CA-C-N	-8.59	108.93	122.08
2	3-O	3	THR	C-N-CA	-8.59	108.93	122.08
2	4-O	3	THR	CA-C-N	-8.59	108.93	122.08
2	6-O	3	THR	CA-C-N	-8.59	108.93	122.08
4	1-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	1-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	1-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	1-X	452	ARG	C-N-CA	8.59	137.95	121.54
2	2-O	3	THR	C-N-CA	-8.59	108.93	122.08
2	5-O	3	THR	CA-C-N	-8.59	108.93	122.08
2	5-O	3	THR	C-N-CA	-8.59	108.93	122.08
2	8-O	3	THR	CA-C-N	-8.59	108.93	122.08
4	2-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	2-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	2-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	2-X	452	ARG	C-N-CA	8.59	137.95	121.54
4	3-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	3-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	3-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	3-X	452	ARG	C-N-CA	8.59	137.95	121.54
2	4-O	3	THR	C-N-CA	-8.59	108.93	122.08
2	7-O	3	THR	CA-C-N	-8.59	108.93	122.08
2	7-O	3	THR	C-N-CA	-8.59	108.93	122.08
4	4-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	4-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	4-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	4-X	452	ARG	C-N-CA	8.59	137.95	121.54
4	5-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	5-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	5-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	5-X	452	ARG	C-N-CA	8.59	137.95	121.54
2	6-O	3	THR	C-N-CA	-8.59	108.93	122.08
4	6-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	6-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	6-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	6-X	452	ARG	C-N-CA	8.59	137.95	121.54
4	7-L	452	ARG	CA-C-N	8.59	137.95	121.54
4	7-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	7-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	7-X	452	ARG	C-N-CA	8.59	137.95	121.54
2	8-O	3	THR	C-N-CA	-8.59	108.93	122.08
4	8-L	452	ARG	CA-C-N	8.59	137.95	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	452	ARG	C-N-CA	8.59	137.95	121.54
4	8-X	452	ARG	CA-C-N	8.59	137.95	121.54
4	8-X	452	ARG	C-N-CA	8.59	137.95	121.54
4	1-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	1-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	1-N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	1-Z	372	ILE	CA-C-N	8.59	132.31	120.63
6	1-Z	372	ILE	C-N-CA	8.59	132.31	120.63
4	2-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	2-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	2-N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	2-Z	372	ILE	CA-C-N	8.59	132.31	120.63
4	3-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	3-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	3-N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	3-Z	372	ILE	CA-C-N	8.59	132.31	120.63
4	4-F	452	ARG	CA-C-N	8.59	137.94	121.54
6	4-Z	372	ILE	CA-C-N	8.59	132.31	120.63
6	4-Z	372	ILE	C-N-CA	8.59	132.31	120.63
4	5-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	5-F	452	ARG	C-N-CA	8.59	137.94	121.54
4	6-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	6-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	6-N	370	GLU	N-CA-CB	8.59	122.52	110.07
4	7-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	7-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	7-Z	372	ILE	CA-C-N	8.59	132.31	120.63
6	7-Z	372	ILE	C-N-CA	8.59	132.31	120.63
3	1-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	1-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	1-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	1-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
3	2-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	2-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	2-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	2-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
6	2-Z	372	ILE	C-N-CA	8.59	132.31	120.63
6	3-Z	372	ILE	C-N-CA	8.59	132.31	120.63
4	4-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	4-N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	5-Z	372	ILE	CA-C-N	8.59	132.31	120.63
6	5-Z	372	ILE	C-N-CA	8.59	132.31	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	372	ILE	CA-C-N	8.59	132.31	120.63
4	8-F	452	ARG	CA-C-N	8.59	137.94	121.54
4	8-F	452	ARG	C-N-CA	8.59	137.94	121.54
6	8-Z	372	ILE	CA-C-N	8.59	132.31	120.63
6	8-Z	372	ILE	C-N-CA	8.59	132.31	120.63
3	3-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	3-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	3-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	3-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
3	4-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	4-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	4-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	4-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
6	5-N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	7-N	370	GLU	N-CA-CB	8.59	122.52	110.07
6	8-N	370	GLU	N-CA-CB	8.59	122.52	110.07
3	5-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	5-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	5-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	5-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
3	6-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	6-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	6-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	6-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
6	6-Z	372	ILE	C-N-CA	8.59	132.31	120.63
3	7-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	7-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	7-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	7-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
3	8-P	1517	SER	CA-C-O	-8.59	110.97	121.02
2	8-U	3	THR	CA-C-N	-8.59	108.94	122.08
2	8-U	3	THR	C-N-CA	-8.59	108.94	122.08
6	8-Z	370	GLU	N-CA-CB	8.59	122.52	110.07
3	1-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	2-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	3-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	4-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	5-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	6-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	7-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	8-V	1517	SER	CA-C-O	-8.58	110.98	121.02
3	1-D	1532	ASP	CA-C-N	-8.58	108.10	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	2-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	2-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	3-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	3-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	4-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	4-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	5-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	5-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	6-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	6-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	7-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	7-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
3	8-D	1532	ASP	CA-C-N	-8.58	108.10	120.29
3	8-D	1532	ASP	C-N-CA	-8.58	108.10	120.29
5	1-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	1-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	1-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	1-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	1-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	1-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	2-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	2-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	2-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	2-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	2-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	2-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	3-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	3-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	3-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	3-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	3-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	3-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	4-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	4-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	4-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	4-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	4-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	4-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	5-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	5-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	5-R	452	ARG	CA-C-N	8.58	137.93	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	5-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	5-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	6-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	6-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	6-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	6-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	6-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	6-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	7-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	7-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	7-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	7-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	7-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	7-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
5	8-M	346	PHE	N-CA-CB	8.58	122.51	110.07
6	8-N	366	ILE	CA-C-O	8.58	130.26	121.17
4	8-R	452	ARG	CA-C-N	8.58	137.93	121.54
4	8-R	452	ARG	C-N-CA	8.58	137.93	121.54
3	8-V	1532	ASP	CA-C-N	-8.58	108.11	120.29
3	8-V	1532	ASP	C-N-CA	-8.58	108.11	120.29
6	1-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	1-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	1-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	2-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	2-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	2-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	3-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	3-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	3-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	4-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	4-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	4-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	5-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	5-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	5-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	6-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	6-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	6-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	7-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	7-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	7-T	370	GLU	N-CA-CB	8.58	122.51	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	372	ILE	CA-C-N	8.58	132.29	120.63
6	8-H	372	ILE	C-N-CA	8.58	132.29	120.63
6	8-T	370	GLU	N-CA-CB	8.58	122.51	110.07
6	1-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	1-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	2-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	2-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	3-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	3-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	4-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	4-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	5-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	5-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	6-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	6-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	7-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	7-T	372	ILE	C-N-CA	8.57	132.29	120.63
6	8-T	372	ILE	CA-C-N	8.57	132.29	120.63
6	8-T	372	ILE	C-N-CA	8.57	132.29	120.63
3	1-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	1-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	1-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	2-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	2-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	2-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	3-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	3-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	3-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	4-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	4-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	4-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	5-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	5-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	5-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	6-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	6-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	6-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	7-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	7-P	1532	ASP	C-N-CA	-8.57	108.12	120.29
6	7-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	8-P	1532	ASP	CA-C-N	-8.57	108.12	120.29
3	8-P	1532	ASP	C-N-CA	-8.57	108.12	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	403	LEU	N-CA-C	-8.57	102.26	112.89
3	1-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	1-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	2-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	2-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	3-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	3-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	4-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	4-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	5-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	5-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	6-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	6-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	7-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	7-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
3	8-J	1532	ASP	CA-C-N	-8.56	108.13	120.29
3	8-J	1532	ASP	C-N-CA	-8.56	108.13	120.29
6	1-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	1-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	2-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	2-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	3-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	3-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	4-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	4-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	5-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	5-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	6-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	6-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	7-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	7-N	403	LEU	N-CA-C	-8.56	102.28	112.89
6	8-H	366	ILE	CA-C-O	8.56	130.24	121.17
6	8-N	403	LEU	N-CA-C	-8.56	102.28	112.89
2	1-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	1-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	1-J	1517	SER	CA-C-O	-8.56	111.01	121.02
2	2-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	2-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	2-J	1517	SER	CA-C-O	-8.56	111.01	121.02
2	3-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	3-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	3-J	1517	SER	CA-C-O	-8.56	111.01	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	4-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	4-J	1517	SER	CA-C-O	-8.56	111.01	121.02
2	5-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	5-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	5-J	1517	SER	CA-C-O	-8.56	111.01	121.02
2	6-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	6-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	6-J	1517	SER	CA-C-O	-8.56	111.01	121.02
2	7-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	7-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	7-J	1517	SER	CA-C-O	-8.56	111.01	121.02
2	8-C	3	THR	CA-C-N	-8.56	108.99	122.08
2	8-C	3	THR	C-N-CA	-8.56	108.99	122.08
3	8-J	1517	SER	CA-C-O	-8.56	111.01	121.02
3	1-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	1-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	2-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	2-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	3-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	3-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	4-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	4-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	5-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	5-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	6-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	6-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	7-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	7-T	403	LEU	N-CA-C	-8.55	102.29	112.89
3	8-D	1536	LEU	O-C-N	-8.55	113.06	122.12
6	8-T	403	LEU	N-CA-C	-8.55	102.29	112.89
6	1-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	2-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	3-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	4-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	5-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	6-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	7-N	405	ASP	N-CA-CB	8.54	122.38	109.91
6	8-N	405	ASP	N-CA-CB	8.54	122.38	109.91
3	1-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	2-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	3-D	1517	SER	CA-C-O	-8.54	111.02	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	5-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	6-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	7-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	8-D	1517	SER	CA-C-O	-8.54	111.02	121.02
3	1-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	1-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	2-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	2-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	3-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	3-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	4-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	4-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	5-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	5-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	6-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	6-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	7-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	7-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	8-V	1536	LEU	O-C-N	-8.53	113.08	122.12
6	8-Z	405	ASP	N-CA-CB	8.53	122.36	109.91
3	1-P	1536	LEU	O-C-N	-8.52	113.08	122.12
4	1-R	489	LYS	N-CA-C	-8.52	101.93	111.82
3	2-P	1536	LEU	O-C-N	-8.52	113.08	122.12
4	2-R	489	LYS	N-CA-C	-8.52	101.93	111.82
3	4-P	1536	LEU	O-C-N	-8.52	113.08	122.12
4	8-R	489	LYS	N-CA-C	-8.52	101.93	111.82
3	1-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	1-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	2-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	2-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	3-P	1536	LEU	O-C-N	-8.52	113.08	122.12
4	3-R	489	LYS	N-CA-C	-8.52	101.93	111.82
4	4-R	489	LYS	N-CA-C	-8.52	101.93	111.82
4	5-R	489	LYS	N-CA-C	-8.52	101.93	111.82
4	6-R	489	LYS	N-CA-C	-8.52	101.93	111.82
4	7-R	489	LYS	N-CA-C	-8.52	101.93	111.82
3	3-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	3-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	4-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	4-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	5-P	1536	LEU	O-C-N	-8.52	113.08	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-P	1536	LEU	O-C-N	-8.52	113.08	122.12
3	5-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	5-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	6-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	6-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	7-P	1536	LEU	O-C-N	-8.52	113.08	122.12
3	8-P	1536	LEU	O-C-N	-8.52	113.08	122.12
3	7-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	7-X	489	LYS	N-CA-C	-8.52	101.93	111.82
3	8-J	1536	LEU	CA-C-O	8.52	129.58	120.55
4	8-X	489	LYS	N-CA-C	-8.52	101.93	111.82
4	1-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	2-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	3-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	4-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	5-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	6-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	7-F	489	LYS	N-CA-C	-8.52	101.94	111.82
4	8-F	489	LYS	N-CA-C	-8.52	101.94	111.82
6	1-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	1-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	1-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	2-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	2-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	2-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	3-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	3-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	3-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	4-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	4-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	4-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	5-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	5-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	5-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	6-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	6-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	6-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	7-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	7-Y	332	PRO	CA-C-N	8.51	130.48	119.84
5	7-Y	332	PRO	C-N-CA	8.51	130.48	119.84
6	8-H	405	ASP	N-CA-CB	8.51	122.34	109.91
5	8-Y	332	PRO	CA-C-N	8.51	130.48	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-Y	332	PRO	C-N-CA	8.51	130.48	119.84
3	1-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	2-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	3-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	4-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	5-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	6-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	7-J	1536	LEU	O-C-N	-8.50	113.11	122.12
3	8-J	1536	LEU	O-C-N	-8.50	113.11	122.12
6	1-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	2-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	3-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	4-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	5-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	6-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	7-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
6	8-Z	381	LYS	CA-C-O	-8.50	110.20	119.97
3	1-D	1536	LEU	CA-C-O	8.49	129.55	120.55
5	1-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	1-G	332	PRO	C-N-CA	8.49	130.46	119.84
5	3-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	6-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	6-G	332	PRO	C-N-CA	8.49	130.46	119.84
6	1-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	1-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	2-D	1536	LEU	CA-C-O	8.49	129.55	120.55
5	2-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	2-G	332	PRO	C-N-CA	8.49	130.46	119.84
5	3-G	332	PRO	C-N-CA	8.49	130.46	119.84
5	5-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	5-G	332	PRO	C-N-CA	8.49	130.46	119.84
6	2-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	2-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	3-D	1536	LEU	CA-C-O	8.49	129.55	120.55
6	3-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	3-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	4-D	1536	LEU	CA-C-O	8.49	129.55	120.55
5	4-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	4-G	332	PRO	C-N-CA	8.49	130.46	119.84
5	8-G	332	PRO	CA-C-N	8.49	130.46	119.84
5	8-G	332	PRO	C-N-CA	8.49	130.46	119.84
6	4-H	381	LYS	CA-C-O	-8.49	110.20	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	5-D	1536	LEU	CA-C-O	8.49	129.55	120.55
5	7-G	332	PRO	CA-C-N	8.49	130.46	119.84
6	5-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	5-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	6-D	1536	LEU	CA-C-O	8.49	129.55	120.55
5	7-G	332	PRO	C-N-CA	8.49	130.46	119.84
6	6-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	6-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	7-D	1536	LEU	CA-C-O	8.49	129.55	120.55
6	7-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	7-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	8-D	1536	LEU	CA-C-O	8.49	129.55	120.55
6	8-H	381	LYS	CA-C-O	-8.49	110.20	119.97
3	8-P	1536	LEU	CA-C-O	8.49	129.55	120.55
3	1-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	2-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	3-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	4-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	5-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	6-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	7-D	1510	GLN	O-C-N	8.49	134.76	122.28
3	8-D	1510	GLN	O-C-N	8.49	134.76	122.28
5	1-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	1-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	2-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	2-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	3-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	3-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	4-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	4-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	5-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	5-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	6-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	6-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	7-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	7-S	332	PRO	C-N-CA	8.49	130.45	119.84
5	8-S	332	PRO	CA-C-N	8.49	130.45	119.84
5	8-S	332	PRO	C-N-CA	8.49	130.45	119.84
6	1-T	405	ASP	N-CA-CB	8.49	122.30	109.91
6	2-T	405	ASP	N-CA-CB	8.49	122.30	109.91
6	3-T	405	ASP	N-CA-CB	8.49	122.30	109.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	405	ASP	N-CA-CB	8.49	122.30	109.91
6	5-T	405	ASP	N-CA-CB	8.49	122.30	109.91
6	6-T	405	ASP	N-CA-CB	8.49	122.30	109.91
6	7-T	405	ASP	N-CA-CB	8.49	122.30	109.91
6	8-T	405	ASP	N-CA-CB	8.49	122.30	109.91
3	1-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	2-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	3-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	4-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	5-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	6-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	7-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	8-V	1536	LEU	CA-C-O	8.48	129.54	120.55
3	1-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	2-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	3-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	4-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	5-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	6-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	7-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	8-V	1609	ILE	N-CA-CB	8.48	115.84	110.50
3	1-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	2-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	3-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	4-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	5-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	6-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	7-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
3	8-J	1459	PHE	N-CA-CB	8.48	122.70	110.16
6	1-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	2-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	3-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	4-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	5-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	6-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	7-T	381	LYS	CA-C-O	-8.47	110.22	119.97
6	8-T	381	LYS	CA-C-O	-8.47	110.22	119.97
4	1-L	489	LYS	N-CA-C	-8.47	101.99	111.82
4	2-L	489	LYS	N-CA-C	-8.47	101.99	111.82
4	3-L	489	LYS	N-CA-C	-8.47	101.99	111.82
4	4-L	489	LYS	N-CA-C	-8.47	101.99	111.82
4	5-L	489	LYS	N-CA-C	-8.47	101.99	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	489	LYS	N-CA-C	-8.47	101.99	111.82
4	7-L	489	LYS	N-CA-C	-8.47	101.99	111.82
4	8-L	489	LYS	N-CA-C	-8.47	101.99	111.82
5	1-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	1-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	1-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	2-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	2-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	2-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	3-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	3-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	3-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	4-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	4-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	4-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	5-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	5-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	5-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	6-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	6-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	6-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	7-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	7-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	7-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	8-G	253	GLN	CA-C-N	-8.47	109.43	120.44
5	8-G	253	GLN	C-N-CA	-8.47	109.43	120.44
3	8-V	1459	PHE	N-CA-CB	8.47	122.69	110.16
5	1-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	1-M	332	PRO	C-N-CA	8.46	130.42	119.84
4	1-R	467	LEU	N-CA-C	8.47	122.71	112.38
4	2-R	467	LEU	N-CA-C	8.47	122.71	112.38
4	3-R	467	LEU	N-CA-C	8.47	122.71	112.38
4	5-R	467	LEU	N-CA-C	8.47	122.71	112.38
4	6-R	467	LEU	N-CA-C	8.47	122.71	112.38
4	8-R	467	LEU	N-CA-C	8.47	122.71	112.38
5	1-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	1-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	2-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	2-M	332	PRO	C-N-CA	8.46	130.42	119.84
5	2-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	2-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	3-M	332	PRO	CA-C-N	8.46	130.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-M	332	PRO	C-N-CA	8.46	130.42	119.84
5	3-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	3-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	4-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	4-M	332	PRO	C-N-CA	8.46	130.42	119.84
4	4-R	467	LEU	N-CA-C	8.47	122.71	112.38
4	7-R	467	LEU	N-CA-C	8.47	122.71	112.38
5	4-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	4-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	5-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	5-M	332	PRO	C-N-CA	8.46	130.42	119.84
5	5-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	5-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	6-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	6-M	332	PRO	C-N-CA	8.46	130.42	119.84
5	6-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	6-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	7-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	7-M	332	PRO	C-N-CA	8.46	130.42	119.84
5	7-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	7-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	8-M	332	PRO	CA-C-N	8.46	130.42	119.84
5	8-M	332	PRO	C-N-CA	8.46	130.42	119.84
5	8-S	253	GLN	CA-C-N	-8.46	109.44	120.44
5	8-S	253	GLN	C-N-CA	-8.46	109.44	120.44
5	1-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	1-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	2-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	2-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	3-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	3-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	4-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	4-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	5-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	5-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	6-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	6-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	7-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	7-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	8-M	249	PRO	CB-CA-C	8.46	125.52	111.56
6	8-N	381	LYS	CA-C-O	-8.46	110.24	119.97
5	1-Y	253	GLN	CA-C-N	-8.46	109.44	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	2-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	2-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	3-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	3-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	4-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	4-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	5-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	5-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	6-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	6-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	7-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	7-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
5	8-Y	253	GLN	CA-C-N	-8.46	109.44	120.44
5	8-Y	253	GLN	C-N-CA	-8.46	109.44	120.44
4	1-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	2-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	3-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	4-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	5-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	6-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	7-X	467	LEU	N-CA-C	8.46	122.70	112.38
4	8-X	467	LEU	N-CA-C	8.46	122.70	112.38
3	1-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	1-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	1-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	1-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	2-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	2-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	2-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	2-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	3-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	3-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	3-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	3-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	4-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	4-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	4-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	4-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	5-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	5-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	5-G	338	GLU	C-N-CA	-8.46	108.70	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	6-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	6-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	6-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	6-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	7-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	7-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	7-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	7-L	467	LEU	N-CA-C	8.46	122.69	112.38
3	8-D	1609	ILE	N-CA-CB	8.46	115.83	110.50
5	8-G	338	GLU	CA-C-N	-8.46	108.70	121.72
5	8-G	338	GLU	C-N-CA	-8.46	108.70	121.72
4	8-L	467	LEU	N-CA-C	8.46	122.69	112.38
5	1-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	2-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	3-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	4-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	5-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	6-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	7-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
5	8-Y	249	PRO	CB-CA-C	8.45	125.51	111.56
3	1-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	1-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	1-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	1-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	1-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	2-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	2-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	2-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	2-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	2-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	3-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	3-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	3-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	3-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	3-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	4-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	4-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	4-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	4-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	4-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	5-D	1459	PHE	N-CA-CB	8.45	122.67	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	5-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	5-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	5-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	6-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	6-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	6-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	6-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	6-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	7-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	7-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	7-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	7-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	7-S	338	GLU	C-N-CA	-8.45	108.71	121.72
3	8-D	1459	PHE	N-CA-CB	8.45	122.67	110.16
5	8-M	253	GLN	CA-C-N	-8.45	109.46	120.44
5	8-M	253	GLN	C-N-CA	-8.45	109.46	120.44
5	8-S	338	GLU	CA-C-N	-8.45	108.71	121.72
5	8-S	338	GLU	C-N-CA	-8.45	108.71	121.72
5	1-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	1-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	2-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	2-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	3-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	3-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	4-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	4-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	5-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	5-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	6-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	6-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	7-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	7-M	338	GLU	C-N-CA	-8.45	108.71	121.72
5	8-M	338	GLU	CA-C-N	-8.45	108.71	121.72
5	8-M	338	GLU	C-N-CA	-8.45	108.71	121.72
3	1-P	1510	GLN	O-C-N	8.44	134.69	122.28
3	2-P	1510	GLN	O-C-N	8.44	134.69	122.28
3	3-P	1510	GLN	O-C-N	8.44	134.69	122.28
3	4-P	1510	GLN	O-C-N	8.44	134.69	122.28
3	5-P	1510	GLN	O-C-N	8.44	134.69	122.28
3	6-P	1510	GLN	O-C-N	8.44	134.69	122.28
3	7-P	1510	GLN	O-C-N	8.44	134.69	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1510	GLN	O-C-N	8.44	134.69	122.28
5	1-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	1-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	1-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	1-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	2-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	2-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	2-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	2-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	3-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	3-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	3-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	3-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	4-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	4-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	4-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	4-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	5-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	5-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	5-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	5-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	6-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	6-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	6-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	6-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	7-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	7-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	7-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	7-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	8-G	249	PRO	CB-CA-C	8.44	125.48	111.56
3	8-P	1459	PHE	N-CA-CB	8.44	122.65	110.16
5	8-Y	338	GLU	CA-C-N	-8.44	108.72	121.72
5	8-Y	338	GLU	C-N-CA	-8.44	108.72	121.72
5	1-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	2-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	3-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	4-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	5-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	6-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	7-S	249	PRO	CB-CA-C	8.44	125.48	111.56
5	8-S	249	PRO	CB-CA-C	8.44	125.48	111.56
2	1-I	526	LEU	N-CA-C	8.43	121.60	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	526	LEU	N-CA-C	8.43	121.60	111.82
2	3-I	526	LEU	N-CA-C	8.43	121.60	111.82
2	4-I	526	LEU	N-CA-C	8.43	121.60	111.82
2	5-I	526	LEU	N-CA-C	8.43	121.60	111.82
2	6-I	526	LEU	N-CA-C	8.43	121.60	111.82
2	7-I	526	LEU	N-CA-C	8.43	121.60	111.82
2	8-I	526	LEU	N-CA-C	8.43	121.60	111.82
3	1-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	2-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	3-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	4-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	5-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	6-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	7-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
3	8-J	1609	ILE	N-CA-CB	8.43	115.81	110.50
4	1-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	2-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	3-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	4-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	5-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	6-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	7-F	467	LEU	N-CA-C	8.42	122.66	112.38
4	8-F	467	LEU	N-CA-C	8.42	122.66	112.38
6	1-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	1-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	2-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	2-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	3-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	3-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	4-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	4-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	5-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	5-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	6-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	6-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	7-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	7-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	8-N	497	ARG	CB-CA-C	8.42	127.18	110.42
3	8-P	1609	ILE	N-CA-CB	8.42	115.81	110.50
6	1-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	1-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	1-Z	408	SER	CA-C-O	-8.42	108.62	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	2-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	2-Z	408	SER	CA-C-O	-8.42	108.62	120.16
6	3-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	3-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	3-Z	408	SER	CA-C-O	-8.42	108.62	120.16
6	4-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	4-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	4-Z	408	SER	CA-C-O	-8.42	108.62	120.16
6	5-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	5-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	5-Z	408	SER	CA-C-O	-8.42	108.62	120.16
6	6-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	6-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	6-Z	408	SER	CA-C-O	-8.42	108.62	120.16
6	7-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	7-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	7-Z	408	SER	CA-C-O	-8.42	108.62	120.16
6	8-H	497	ARG	CB-CA-C	8.42	127.18	110.42
3	8-V	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	8-Z	408	SER	CA-C-O	-8.42	108.62	120.16
3	1-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	1-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	2-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	2-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	3-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	3-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	4-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	4-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	5-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	5-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	6-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	6-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	7-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	7-T	497	ARG	CB-CA-C	8.42	127.17	110.42
3	8-J	1685	LEU	N-CA-C	-8.42	98.95	109.64
6	8-T	497	ARG	CB-CA-C	8.42	127.17	110.42
6	1-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	1-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	2-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	2-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	3-N	408	SER	CA-C-O	-8.41	108.63	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	4-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	4-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	5-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	5-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	6-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	6-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	7-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	7-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
6	8-N	408	SER	CA-C-O	-8.41	108.63	120.16
3	8-P	1685	LEU	N-CA-C	-8.41	98.96	109.64
3	1-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	1-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	2-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	2-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	3-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	3-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	4-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	4-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	5-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	5-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	6-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	6-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	7-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	7-T	408	SER	CA-C-O	-8.41	108.64	120.16
3	8-J	1510	GLN	O-C-N	8.41	134.64	122.28
6	8-T	408	SER	CA-C-O	-8.41	108.64	120.16
2	1-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	1-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	2-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	2-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	3-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	3-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	4-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	4-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	5-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	5-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	6-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	6-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	7-U	526	LEU	N-CA-C	8.40	121.57	111.82
6	7-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
2	8-U	526	LEU	N-CA-C	8.40	121.57	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	497	ARG	CB-CA-C	8.40	127.15	110.42
1	1-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	1-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	2-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	2-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	3-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	3-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	4-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	4-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	5-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	5-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	6-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	6-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	7-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	7-C	526	LEU	N-CA-C	8.40	121.56	111.82
1	8-A	223	ASN	N-CA-C	-8.40	102.08	111.82
2	8-C	526	LEU	N-CA-C	8.40	121.56	111.82
2	1-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	2-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	3-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	4-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	5-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	6-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	7-O	526	LEU	N-CA-C	8.39	121.55	111.82
2	8-O	526	LEU	N-CA-C	8.39	121.55	111.82
6	1-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	1-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	1-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	2-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	2-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	2-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	3-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	3-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	3-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	4-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	4-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	4-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	5-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	5-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	5-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	6-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	6-H	408	SER	CA-C-O	-8.38	108.67	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	7-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	7-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	7-W	223	ASN	N-CA-C	-8.39	102.09	111.82
6	8-H	396	ILE	N-CA-C	-8.39	100.57	111.05
6	8-H	408	SER	CA-C-O	-8.38	108.67	120.16
1	8-W	223	ASN	N-CA-C	-8.39	102.09	111.82
3	1-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	2-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	3-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	4-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	5-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	6-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	7-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
3	8-D	1685	LEU	N-CA-C	-8.38	99.00	109.64
4	1-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	2-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	3-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	4-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	5-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	6-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	7-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	8-X	394	GLU	O-C-N	-8.38	110.90	122.46
4	1-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	1-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	2-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	2-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	3-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	3-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	4-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	4-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	5-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	5-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	6-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	6-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	7-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	7-L	476	HIS	CA-C-O	-8.37	111.68	120.55
4	8-L	394	GLU	O-C-N	-8.37	110.91	122.46
4	8-L	476	HIS	CA-C-O	-8.37	111.68	120.55
1	1-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
1	2-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
1	3-Q	223	ASN	N-CA-C	-8.37	102.11	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
1	5-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
1	6-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
1	7-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
1	8-Q	223	ASN	N-CA-C	-8.37	102.11	111.82
4	1-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	2-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	3-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	4-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	5-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	6-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	7-F	476	HIS	CA-C-O	-8.36	111.68	120.55
4	8-F	476	HIS	CA-C-O	-8.36	111.68	120.55
6	1-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	2-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	3-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	4-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	5-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	6-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	7-T	396	ILE	N-CA-C	-8.36	100.60	111.05
6	8-T	396	ILE	N-CA-C	-8.36	100.60	111.05
2	1-O	8	GLU	O-C-N	8.36	133.09	122.23
2	2-O	8	GLU	O-C-N	8.36	133.09	122.23
2	3-O	8	GLU	O-C-N	8.36	133.09	122.23
2	4-O	8	GLU	O-C-N	8.36	133.09	122.23
2	5-O	8	GLU	O-C-N	8.36	133.09	122.23
2	6-O	8	GLU	O-C-N	8.36	133.09	122.23
2	7-O	8	GLU	O-C-N	8.36	133.09	122.23
2	8-O	8	GLU	O-C-N	8.36	133.09	122.23
6	1-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	2-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	3-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	4-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	5-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	6-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	7-H	374	SER	N-CA-CB	-8.36	96.89	110.42
6	8-H	374	SER	N-CA-CB	-8.36	96.89	110.42
1	1-K	223	ASN	N-CA-C	-8.35	102.13	111.82
6	1-N	374	SER	N-CA-CB	-8.35	96.89	110.42
6	2-N	374	SER	N-CA-CB	-8.35	96.89	110.42
6	3-N	374	SER	N-CA-CB	-8.35	96.89	110.42
6	4-N	374	SER	N-CA-CB	-8.35	96.89	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-N	374	SER	N-CA-CB	-8.35	96.89	110.42
6	6-N	374	SER	N-CA-CB	-8.35	96.89	110.42
6	7-N	374	SER	N-CA-CB	-8.35	96.89	110.42
6	8-N	374	SER	N-CA-CB	-8.35	96.89	110.42
4	1-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	2-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	2-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	3-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	3-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	4-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	4-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	5-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	5-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	6-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	6-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	7-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	7-R	394	GLU	O-C-N	-8.35	110.93	122.46
1	8-K	223	ASN	N-CA-C	-8.35	102.13	111.82
4	8-R	394	GLU	O-C-N	-8.35	110.93	122.46
4	1-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	1-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	1-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	2-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	2-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	2-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	3-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	3-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	3-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	4-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	4-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	4-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	5-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	5-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	5-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	6-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	6-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	6-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	7-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	7-R	476	HIS	CA-C-O	-8.35	111.70	120.55
4	7-X	476	HIS	CA-C-O	-8.35	111.70	120.55
4	8-R	398	LYS	N-CA-CB	8.35	123.94	110.42
4	8-R	476	HIS	CA-C-O	-8.35	111.70	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	476	HIS	CA-C-O	-8.35	111.70	120.55
1	1-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	1-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	2-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	2-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	3-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	3-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	4-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	4-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	5-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	5-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	6-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	6-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	7-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	7-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	8-B	223	ASN	N-CA-C	-8.34	102.14	111.82
4	8-X	398	LYS	N-CA-CB	8.34	123.93	110.42
1	1-B	414	SER	CA-C-N	8.34	137.47	121.54
1	1-B	414	SER	C-N-CA	8.34	137.47	121.54
4	1-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	1-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	2-B	414	SER	CA-C-N	8.34	137.47	121.54
1	2-B	414	SER	C-N-CA	8.34	137.47	121.54
4	2-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	2-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	3-B	414	SER	CA-C-N	8.34	137.47	121.54
1	3-B	414	SER	C-N-CA	8.34	137.47	121.54
4	3-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	3-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	4-B	414	SER	CA-C-N	8.34	137.47	121.54
1	4-B	414	SER	C-N-CA	8.34	137.47	121.54
4	4-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	4-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	5-B	414	SER	CA-C-N	8.34	137.47	121.54
1	5-B	414	SER	C-N-CA	8.34	137.47	121.54
4	5-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	5-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	6-B	414	SER	CA-C-N	8.34	137.47	121.54
1	6-B	414	SER	C-N-CA	8.34	137.47	121.54
4	6-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	6-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	7-B	414	SER	CA-C-N	8.34	137.47	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-B	414	SER	C-N-CA	8.34	137.47	121.54
4	7-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	7-N	396	ILE	N-CA-C	-8.34	100.63	111.05
1	8-B	414	SER	CA-C-N	8.34	137.47	121.54
1	8-B	414	SER	C-N-CA	8.34	137.47	121.54
4	8-L	398	LYS	N-CA-CB	8.34	123.93	110.42
6	8-N	396	ILE	N-CA-C	-8.34	100.63	111.05
4	1-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	2-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	1-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	1-I	8	GLU	O-C-N	8.34	133.07	122.23
2	1-U	8	GLU	O-C-N	8.34	133.07	122.23
6	1-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	2-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	2-I	8	GLU	O-C-N	8.34	133.07	122.23
2	2-U	8	GLU	O-C-N	8.34	133.07	122.23
6	2-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	3-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	4-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	7-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	3-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	3-I	8	GLU	O-C-N	8.34	133.07	122.23
2	3-U	8	GLU	O-C-N	8.34	133.07	122.23
6	3-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	4-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	4-I	8	GLU	O-C-N	8.34	133.07	122.23
2	4-U	8	GLU	O-C-N	8.34	133.07	122.23
6	4-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	5-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	6-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	8-F	398	LYS	N-CA-CB	8.34	123.93	110.42
4	5-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	5-I	8	GLU	O-C-N	8.34	133.07	122.23
2	5-U	8	GLU	O-C-N	8.34	133.07	122.23
6	5-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	6-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	6-I	8	GLU	O-C-N	8.34	133.07	122.23
2	6-U	8	GLU	O-C-N	8.34	133.07	122.23
6	6-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	7-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	7-I	8	GLU	O-C-N	8.34	133.07	122.23
2	7-U	8	GLU	O-C-N	8.34	133.07	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
4	8-F	394	GLU	O-C-N	-8.34	110.96	122.46
2	8-I	8	GLU	O-C-N	8.34	133.07	122.23
2	8-U	8	GLU	O-C-N	8.34	133.07	122.23
6	8-Z	396	ILE	N-CA-C	-8.34	100.63	111.05
6	1-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	2-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	3-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	4-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	5-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	6-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	7-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
6	8-Z	374	SER	N-CA-CB	-8.33	96.92	110.42
1	1-E	414	SER	CA-C-N	8.33	137.45	121.54
1	1-E	414	SER	C-N-CA	8.33	137.45	121.54
1	2-E	414	SER	CA-C-N	8.33	137.45	121.54
1	2-E	414	SER	C-N-CA	8.33	137.45	121.54
1	3-E	414	SER	CA-C-N	8.33	137.45	121.54
1	3-E	414	SER	C-N-CA	8.33	137.45	121.54
1	4-E	414	SER	CA-C-N	8.33	137.45	121.54
1	4-E	414	SER	C-N-CA	8.33	137.45	121.54
1	5-E	414	SER	CA-C-N	8.33	137.45	121.54
1	5-E	414	SER	C-N-CA	8.33	137.45	121.54
1	6-E	414	SER	CA-C-N	8.33	137.45	121.54
1	6-E	414	SER	C-N-CA	8.33	137.45	121.54
1	7-E	414	SER	CA-C-N	8.33	137.45	121.54
1	7-E	414	SER	C-N-CA	8.33	137.45	121.54
1	8-E	414	SER	CA-C-N	8.33	137.45	121.54
1	8-E	414	SER	C-N-CA	8.33	137.45	121.54
3	1-V	1519	SER	O-C-N	8.33	133.67	122.59
3	2-V	1519	SER	O-C-N	8.33	133.67	122.59
3	3-V	1519	SER	O-C-N	8.33	133.67	122.59
3	4-V	1519	SER	O-C-N	8.33	133.67	122.59
3	5-V	1519	SER	O-C-N	8.33	133.67	122.59
3	6-V	1519	SER	O-C-N	8.33	133.67	122.59
3	7-V	1519	SER	O-C-N	8.33	133.67	122.59
3	8-V	1519	SER	O-C-N	8.33	133.67	122.59
1	1-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	2-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	3-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	4-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	5-E	223	ASN	N-CA-C	-8.33	102.16	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	7-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	8-E	223	ASN	N-CA-C	-8.33	102.16	111.82
1	1-A	414	SER	CA-C-N	8.32	137.44	121.54
1	1-A	414	SER	C-N-CA	8.32	137.44	121.54
1	2-A	414	SER	CA-C-N	8.32	137.44	121.54
1	2-A	414	SER	C-N-CA	8.32	137.44	121.54
1	3-A	414	SER	CA-C-N	8.32	137.44	121.54
1	3-A	414	SER	C-N-CA	8.32	137.44	121.54
1	4-A	414	SER	CA-C-N	8.32	137.44	121.54
1	4-A	414	SER	C-N-CA	8.32	137.44	121.54
1	5-A	414	SER	CA-C-N	8.32	137.44	121.54
1	5-A	414	SER	C-N-CA	8.32	137.44	121.54
1	6-A	414	SER	CA-C-N	8.32	137.44	121.54
1	6-A	414	SER	C-N-CA	8.32	137.44	121.54
1	7-A	414	SER	CA-C-N	8.32	137.44	121.54
1	7-A	414	SER	C-N-CA	8.32	137.44	121.54
1	8-A	414	SER	CA-C-N	8.32	137.44	121.54
1	8-A	414	SER	C-N-CA	8.32	137.44	121.54
3	1-P	1519	SER	O-C-N	8.32	133.66	122.59
3	2-P	1519	SER	O-C-N	8.32	133.66	122.59
3	3-P	1519	SER	O-C-N	8.32	133.66	122.59
3	4-P	1519	SER	O-C-N	8.32	133.66	122.59
3	5-P	1519	SER	O-C-N	8.32	133.66	122.59
3	6-P	1519	SER	O-C-N	8.32	133.66	122.59
3	7-P	1519	SER	O-C-N	8.32	133.66	122.59
3	8-P	1519	SER	O-C-N	8.32	133.66	122.59
1	1-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	1-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	2-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	2-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	3-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	3-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	4-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	4-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	5-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	5-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	6-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	6-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	7-Q	414	SER	CA-C-N	8.32	137.42	121.54
1	7-Q	414	SER	C-N-CA	8.32	137.42	121.54
1	8-Q	414	SER	CA-C-N	8.32	137.42	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-Q	414	SER	C-N-CA	8.32	137.42	121.54
5	1-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	1-W	414	SER	CA-C-N	8.31	137.42	121.54
1	1-W	414	SER	C-N-CA	8.31	137.42	121.54
5	2-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	2-W	414	SER	CA-C-N	8.31	137.42	121.54
1	2-W	414	SER	C-N-CA	8.31	137.42	121.54
5	3-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	3-W	414	SER	CA-C-N	8.31	137.42	121.54
1	3-W	414	SER	C-N-CA	8.31	137.42	121.54
5	4-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	4-W	414	SER	CA-C-N	8.31	137.42	121.54
1	4-W	414	SER	C-N-CA	8.31	137.42	121.54
5	5-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	5-W	414	SER	CA-C-N	8.31	137.42	121.54
1	5-W	414	SER	C-N-CA	8.31	137.42	121.54
5	6-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	6-W	414	SER	CA-C-N	8.31	137.42	121.54
1	6-W	414	SER	C-N-CA	8.31	137.42	121.54
5	7-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	7-W	414	SER	CA-C-N	8.31	137.42	121.54
1	7-W	414	SER	C-N-CA	8.31	137.42	121.54
5	8-S	348	ILE	CB-CA-C	8.31	123.69	112.22
1	8-W	414	SER	CA-C-N	8.31	137.42	121.54
1	8-W	414	SER	C-N-CA	8.31	137.42	121.54
5	1-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	2-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	3-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	4-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	5-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	6-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	7-G	348	ILE	CB-CA-C	8.31	123.69	112.22
5	8-G	348	ILE	CB-CA-C	8.31	123.69	112.22
1	1-K	414	SER	CA-C-N	8.31	137.40	121.54
1	1-K	414	SER	C-N-CA	8.31	137.40	121.54
1	2-K	414	SER	CA-C-N	8.31	137.40	121.54
1	2-K	414	SER	C-N-CA	8.31	137.40	121.54
1	3-K	414	SER	CA-C-N	8.31	137.40	121.54
1	3-K	414	SER	C-N-CA	8.31	137.40	121.54
1	4-K	414	SER	CA-C-N	8.31	137.40	121.54
1	4-K	414	SER	C-N-CA	8.31	137.40	121.54
1	5-K	414	SER	CA-C-N	8.31	137.40	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-K	414	SER	C-N-CA	8.31	137.40	121.54
1	6-K	414	SER	CA-C-N	8.31	137.40	121.54
1	6-K	414	SER	C-N-CA	8.31	137.40	121.54
1	7-K	414	SER	CA-C-N	8.31	137.40	121.54
1	7-K	414	SER	C-N-CA	8.31	137.40	121.54
1	8-K	414	SER	CA-C-N	8.31	137.40	121.54
1	8-K	414	SER	C-N-CA	8.31	137.40	121.54
5	1-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	2-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	3-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	4-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	5-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	6-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	7-M	348	ILE	CB-CA-C	8.30	123.68	112.22
5	8-M	348	ILE	CB-CA-C	8.30	123.68	112.22
6	1-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	2-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	3-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	4-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	5-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	6-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	7-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	8-T	374	SER	N-CA-CB	-8.30	96.97	110.42
6	1-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	1-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	2-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	2-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	3-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	3-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	4-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	4-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	5-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	5-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	6-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	6-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	7-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	7-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
6	8-Z	385	ASP	CA-C-N	-8.30	107.70	120.31
6	8-Z	385	ASP	C-N-CA	-8.30	107.70	120.31
2	1-C	8	GLU	O-C-N	8.29	133.01	122.23
2	2-C	8	GLU	O-C-N	8.29	133.01	122.23
2	3-C	8	GLU	O-C-N	8.29	133.01	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	8	GLU	O-C-N	8.29	133.01	122.23
2	5-C	8	GLU	O-C-N	8.29	133.01	122.23
2	6-C	8	GLU	O-C-N	8.29	133.01	122.23
2	7-C	8	GLU	O-C-N	8.29	133.01	122.23
2	8-C	8	GLU	O-C-N	8.29	133.01	122.23
5	1-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	2-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	3-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	4-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	5-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	6-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	7-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
5	8-Y	348	ILE	CB-CA-C	8.29	123.66	112.22
3	1-J	1519	SER	O-C-N	8.29	133.61	122.59
3	2-J	1519	SER	O-C-N	8.29	133.61	122.59
3	3-J	1519	SER	O-C-N	8.29	133.61	122.59
3	4-J	1519	SER	O-C-N	8.29	133.61	122.59
3	5-J	1519	SER	O-C-N	8.29	133.61	122.59
3	6-J	1519	SER	O-C-N	8.29	133.61	122.59
3	7-J	1519	SER	O-C-N	8.29	133.61	122.59
3	8-J	1519	SER	O-C-N	8.29	133.61	122.59
6	1-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	1-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	2-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	2-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	3-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	3-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	4-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	4-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	5-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	5-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	6-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	6-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	7-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	7-N	385	ASP	C-N-CA	-8.29	107.72	120.31
6	8-N	385	ASP	CA-C-N	-8.29	107.72	120.31
6	8-N	385	ASP	C-N-CA	-8.29	107.72	120.31
4	1-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	2-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	3-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	4-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	5-F	433	GLU	CB-CA-C	-8.28	94.77	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	7-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	8-F	433	GLU	CB-CA-C	-8.28	94.77	110.67
6	1-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	1-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	2-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	2-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	3-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	3-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	4-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	4-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	5-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	5-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	6-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	6-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	7-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	7-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
6	8-H	418	SER	CB-CA-C	8.28	124.08	110.92
4	8-L	433	GLU	CB-CA-C	-8.28	94.78	110.67
2	1-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	1-D	1519	SER	O-C-N	8.28	133.59	122.59
2	1-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	2-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	2-D	1519	SER	O-C-N	8.28	133.59	122.59
2	2-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	3-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	3-D	1519	SER	O-C-N	8.28	133.59	122.59
2	3-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	4-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	4-D	1519	SER	O-C-N	8.28	133.59	122.59
2	4-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	5-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	5-D	1519	SER	O-C-N	8.28	133.59	122.59
2	5-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	6-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	6-D	1519	SER	O-C-N	8.28	133.59	122.59
2	6-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	7-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	7-D	1519	SER	O-C-N	8.28	133.59	122.59
2	7-U	234	LEU	N-CA-C	-8.28	87.83	111.00
2	8-C	234	LEU	N-CA-C	-8.28	87.83	111.00
3	8-D	1519	SER	O-C-N	8.28	133.59	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-U	234	LEU	N-CA-C	-8.28	87.83	111.00
6	1-N	418	SER	CB-CA-C	8.27	124.08	110.92
2	1-O	234	LEU	N-CA-C	-8.27	87.84	111.00
6	2-N	418	SER	CB-CA-C	8.27	124.08	110.92
6	4-N	418	SER	CB-CA-C	8.27	124.08	110.92
6	7-N	418	SER	CB-CA-C	8.27	124.08	110.92
4	1-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	2-O	234	LEU	N-CA-C	-8.27	87.84	111.00
6	3-N	418	SER	CB-CA-C	8.27	124.08	110.92
6	6-N	418	SER	CB-CA-C	8.27	124.08	110.92
4	2-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	3-O	234	LEU	N-CA-C	-8.27	87.84	111.00
4	3-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	4-O	234	LEU	N-CA-C	-8.27	87.84	111.00
6	5-N	418	SER	CB-CA-C	8.27	124.08	110.92
4	4-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	5-O	234	LEU	N-CA-C	-8.27	87.84	111.00
4	5-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	6-O	234	LEU	N-CA-C	-8.27	87.84	111.00
4	6-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	7-O	234	LEU	N-CA-C	-8.27	87.84	111.00
6	8-N	418	SER	CB-CA-C	8.27	124.08	110.92
4	7-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
2	8-O	234	LEU	N-CA-C	-8.27	87.84	111.00
4	8-X	433	GLU	CB-CA-C	-8.27	94.79	110.67
6	1-T	341	SER	CA-C-O	8.27	129.75	120.90
6	1-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	1-T	385	ASP	C-N-CA	-8.27	107.74	120.31
6	2-T	341	SER	CA-C-O	8.27	129.75	120.90
4	1-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	1-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	2-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	2-T	385	ASP	C-N-CA	-8.27	107.74	120.31
4	2-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	2-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	3-T	341	SER	CA-C-O	8.27	129.75	120.90
6	3-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	3-T	385	ASP	C-N-CA	-8.27	107.74	120.31
6	4-T	341	SER	CA-C-O	8.27	129.75	120.90
4	3-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	3-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	4-T	385	ASP	CA-C-N	-8.27	107.74	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	385	ASP	C-N-CA	-8.27	107.74	120.31
4	4-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	4-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	5-T	341	SER	CA-C-O	8.27	129.75	120.90
6	5-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	5-T	385	ASP	C-N-CA	-8.27	107.74	120.31
6	6-T	341	SER	CA-C-O	8.27	129.75	120.90
4	5-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	5-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	6-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	6-T	385	ASP	C-N-CA	-8.27	107.74	120.31
4	6-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	6-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	7-T	341	SER	CA-C-O	8.27	129.75	120.90
6	7-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	7-T	385	ASP	C-N-CA	-8.27	107.74	120.31
6	8-T	341	SER	CA-C-O	8.27	129.75	120.90
4	7-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	7-Y	373	THR	N-CA-CB	8.27	122.40	110.16
6	8-T	385	ASP	CA-C-N	-8.27	107.74	120.31
6	8-T	385	ASP	C-N-CA	-8.27	107.74	120.31
4	8-X	455	ILE	CB-CA-C	-8.27	97.73	111.29
5	8-Y	373	THR	N-CA-CB	8.27	122.40	110.16
2	1-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	1-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	1-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	2-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	2-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	2-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	3-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	3-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	3-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	4-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	4-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	4-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	5-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	5-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	5-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	6-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	6-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	6-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	7-I	234	LEU	N-CA-C	-8.27	87.86	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	7-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
2	8-I	234	LEU	N-CA-C	-8.27	87.86	111.00
3	8-J	1550	LEU	CA-C-N	-8.27	109.20	120.28
3	8-J	1550	LEU	C-N-CA	-8.27	109.20	120.28
4	1-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	1-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	2-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	2-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	3-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	3-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	4-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	4-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	5-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	5-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	6-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	6-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	7-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	7-V	1515	TYR	O-C-N	8.26	130.58	122.07
4	8-R	433	GLU	CB-CA-C	-8.26	94.80	110.67
3	8-V	1515	TYR	O-C-N	8.26	130.58	122.07
3	1-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	1-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	1-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	2-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	2-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	2-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	3-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	3-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	3-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	4-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	4-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	4-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	5-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	5-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	5-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	6-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	6-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	6-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	7-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	7-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	7-T	418	SER	CB-CA-C	8.26	124.05	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1550	LEU	CA-C-N	-8.26	109.21	120.28
3	8-D	1550	LEU	C-N-CA	-8.26	109.21	120.28
6	8-T	418	SER	CB-CA-C	8.26	124.05	110.92
3	1-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	1-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	2-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	2-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	3-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	3-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	4-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	4-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	5-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	5-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	6-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	6-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	7-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	7-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
3	8-P	1550	LEU	CA-C-N	-8.26	109.22	120.28
3	8-P	1550	LEU	C-N-CA	-8.26	109.22	120.28
5	1-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	2-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	3-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	4-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	5-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	6-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	7-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	8-Y	366	GLU	CB-CA-C	-8.25	94.82	110.67
5	1-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	2-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	3-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	4-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	5-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	6-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	7-M	373	THR	N-CA-CB	8.25	122.37	110.16
5	8-M	373	THR	N-CA-CB	8.25	122.37	110.16
4	1-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	1-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	1-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	2-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	2-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	2-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	3-R	455	ILE	CB-CA-C	-8.25	97.76	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	3-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	4-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	4-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	4-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	5-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	5-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	5-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	6-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	6-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	6-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	7-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	7-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	7-Z	418	SER	CB-CA-C	8.25	124.04	110.92
4	8-R	455	ILE	CB-CA-C	-8.25	97.76	111.29
5	8-S	373	THR	N-CA-CB	8.25	122.37	110.16
6	8-Z	418	SER	CB-CA-C	8.25	124.04	110.92
3	1-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	1-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	1-N	341	SER	CA-C-O	8.25	129.72	120.90
3	2-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	2-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	2-N	341	SER	CA-C-O	8.25	129.72	120.90
3	3-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	3-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	3-N	341	SER	CA-C-O	8.25	129.72	120.90
3	4-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	4-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	4-N	341	SER	CA-C-O	8.25	129.72	120.90
3	5-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	5-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	5-N	341	SER	CA-C-O	8.25	129.72	120.90
3	6-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	6-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	6-N	341	SER	CA-C-O	8.25	129.72	120.90
3	7-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	7-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	7-N	341	SER	CA-C-O	8.25	129.72	120.90
3	8-D	1515	TYR	O-C-N	8.25	130.56	122.07
5	8-G	366	GLU	CB-CA-C	-8.25	94.83	110.67
6	8-N	341	SER	CA-C-O	8.25	129.72	120.90
4	1-F	455	ILE	CB-CA-C	-8.24	97.77	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-H	341	SER	CA-C-O	8.24	129.72	120.90
6	1-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	1-H	385	ASP	C-N-CA	-8.24	107.78	120.31
6	2-H	341	SER	CA-C-O	8.24	129.72	120.90
6	8-H	341	SER	CA-C-O	8.24	129.72	120.90
5	1-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	1-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	1-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	2-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	2-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	2-H	385	ASP	C-N-CA	-8.24	107.78	120.31
6	3-H	341	SER	CA-C-O	8.24	129.72	120.90
6	4-H	341	SER	CA-C-O	8.24	129.72	120.90
6	5-H	341	SER	CA-C-O	8.24	129.72	120.90
6	6-H	341	SER	CA-C-O	8.24	129.72	120.90
6	7-H	341	SER	CA-C-O	8.24	129.72	120.90
5	2-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	2-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	2-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	3-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	3-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	3-H	385	ASP	C-N-CA	-8.24	107.78	120.31
5	3-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	3-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	3-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	4-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	4-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	4-H	385	ASP	C-N-CA	-8.24	107.78	120.31
5	4-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	4-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	4-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	5-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	5-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	5-H	385	ASP	C-N-CA	-8.24	107.78	120.31
5	5-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	5-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	5-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	6-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	6-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	6-H	385	ASP	C-N-CA	-8.24	107.78	120.31
5	6-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	6-X	460	LEU	N-CA-C	8.24	122.30	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	7-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	7-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	7-H	385	ASP	C-N-CA	-8.24	107.78	120.31
5	7-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	7-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	7-Z	341	SER	CA-C-O	8.24	129.72	120.90
4	8-F	455	ILE	CB-CA-C	-8.24	97.77	111.29
6	8-H	385	ASP	CA-C-N	-8.24	107.78	120.31
6	8-H	385	ASP	C-N-CA	-8.24	107.78	120.31
5	8-M	366	GLU	CB-CA-C	-8.24	94.84	110.67
4	8-X	460	LEU	N-CA-C	8.24	122.30	111.75
6	8-Z	341	SER	CA-C-O	8.24	129.72	120.90
3	1-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	2-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	3-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	4-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	5-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	6-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	7-P	1515	TYR	O-C-N	8.24	130.56	122.07
3	8-P	1515	TYR	O-C-N	8.24	130.56	122.07
5	1-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	2-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	3-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	4-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	5-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	6-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	7-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
5	8-S	366	GLU	CB-CA-C	-8.24	94.85	110.67
4	1-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	1-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	1-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	1-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	1-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	2-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	2-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	2-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	2-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	2-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	3-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	3-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	3-P	1521	TYR	C-N-CA	-8.23	109.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	3-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	4-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	4-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	4-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	4-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	4-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	5-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	5-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	5-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	5-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	5-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	6-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	6-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	6-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	6-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	6-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	7-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	7-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	7-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	7-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	7-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
4	8-L	455	ILE	CB-CA-C	-8.23	97.79	111.29
3	8-P	1521	TYR	CA-C-N	-8.23	109.25	120.28
3	8-P	1521	TYR	C-N-CA	-8.23	109.25	120.28
3	8-V	1550	LEU	CA-C-N	-8.23	109.25	120.28
3	8-V	1550	LEU	C-N-CA	-8.23	109.25	120.28
3	1-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	2-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	3-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	4-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	5-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	6-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	7-J	1515	TYR	O-C-N	8.23	130.55	122.07
3	8-J	1515	TYR	O-C-N	8.23	130.55	122.07
4	1-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	1-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	2-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	2-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	3-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	3-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	4-F	485	LEU	O-C-N	-8.23	109.24	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	5-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	5-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	6-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	6-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	7-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	7-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	8-F	485	LEU	O-C-N	-8.23	109.24	122.41
5	8-G	373	THR	N-CA-CB	8.23	122.34	110.16
4	1-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	1-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	2-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	2-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	3-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	3-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	4-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	4-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	5-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	5-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	6-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	6-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	7-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	7-L	460	LEU	N-CA-C	8.23	122.28	111.75
4	8-F	460	LEU	N-CA-C	8.23	122.28	111.75
4	8-L	460	LEU	N-CA-C	8.23	122.28	111.75
3	1-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	1-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	1-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	2-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	2-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	2-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	3-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	3-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	3-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	4-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	4-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	4-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	5-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	5-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	5-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	6-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	6-D	1521	TYR	C-N-CA	-8.22	109.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	7-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	7-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	7-R	460	LEU	N-CA-C	8.22	122.27	111.75
3	8-D	1521	TYR	CA-C-N	-8.22	109.26	120.28
3	8-D	1521	TYR	C-N-CA	-8.22	109.26	120.28
4	8-R	460	LEU	N-CA-C	8.22	122.27	111.75
4	1-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	2-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	3-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	4-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	5-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	6-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	7-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	8-L	485	LEU	O-C-N	-8.22	109.26	122.41
4	1-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	2-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	3-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	4-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	5-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	6-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	7-R	485	LEU	O-C-N	-8.21	109.28	122.41
4	8-R	485	LEU	O-C-N	-8.21	109.28	122.41
6	1-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	2-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	3-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	4-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	5-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	6-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	7-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	8-T	363	ARG	N-CA-C	8.21	120.96	111.11
6	1-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	2-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	3-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	4-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	5-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	6-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	7-Z	363	ARG	N-CA-C	8.20	120.95	111.11
6	8-Z	363	ARG	N-CA-C	8.20	120.95	111.11
3	1-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	1-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	2-J	1521	TYR	CA-C-N	-8.19	109.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	3-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	3-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	4-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	4-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	5-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	5-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	6-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	6-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	7-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	7-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	8-J	1521	TYR	CA-C-N	-8.19	109.30	120.28
3	8-J	1521	TYR	C-N-CA	-8.19	109.30	120.28
3	1-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	2-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	3-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	4-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	5-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	6-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	7-J	1508	LYS	O-C-N	8.19	133.48	122.59
3	8-J	1508	LYS	O-C-N	8.19	133.48	122.59
6	1-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	1-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	2-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	2-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	3-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	3-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	4-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	4-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	5-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	5-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	6-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	6-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	7-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	7-N	363	ARG	N-CA-C	8.19	120.94	111.11
6	8-H	363	ARG	N-CA-C	8.19	120.94	111.11
6	8-N	363	ARG	N-CA-C	8.19	120.94	111.11
3	1-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	1-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	1-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	2-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	2-V	1521	TYR	C-N-CA	-8.19	109.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	3-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	3-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	3-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	4-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	4-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	4-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	5-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	5-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	5-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	6-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	6-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	6-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	7-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	7-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	7-X	485	LEU	O-C-N	-8.19	109.31	122.41
3	8-V	1521	TYR	CA-C-N	-8.19	109.31	120.28
3	8-V	1521	TYR	C-N-CA	-8.19	109.31	120.28
4	8-X	485	LEU	O-C-N	-8.19	109.31	122.41
4	1-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	2-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	3-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	4-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	5-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	6-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	7-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	8-X	397	ARG	N-CA-C	-8.17	102.45	111.36
4	1-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	1-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	1-X	422	ASN	N-CA-C	-8.17	97.97	111.37
4	2-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	2-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	2-X	422	ASN	N-CA-C	-8.17	97.97	111.37
4	3-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	3-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	3-X	422	ASN	N-CA-C	-8.17	97.97	111.37
4	4-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	4-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	4-X	422	ASN	N-CA-C	-8.17	97.97	111.37
4	5-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	5-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	5-X	422	ASN	N-CA-C	-8.17	97.97	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	6-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	6-X	422	ASN	N-CA-C	-8.17	97.97	111.37
4	7-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	7-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	7-X	422	ASN	N-CA-C	-8.17	97.97	111.37
4	8-L	397	ARG	N-CA-C	-8.17	102.45	111.36
4	8-R	397	ARG	N-CA-C	-8.17	102.45	111.36
4	8-X	422	ASN	N-CA-C	-8.17	97.97	111.37
3	1-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	2-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	3-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	4-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	5-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	6-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	7-D	1508	LYS	O-C-N	8.16	133.45	122.59
3	8-D	1508	LYS	O-C-N	8.16	133.45	122.59
4	1-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	2-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	3-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	4-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	5-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	6-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	7-F	422	ASN	N-CA-C	-8.15	98.00	111.37
4	8-F	422	ASN	N-CA-C	-8.15	98.00	111.37
3	1-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	2-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	3-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	4-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	5-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	6-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	7-V	1508	LYS	O-C-N	8.15	133.43	122.59
3	8-V	1508	LYS	O-C-N	8.15	133.43	122.59
4	1-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	1-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	1-N	404	GLU	C-N-CA	8.15	131.40	120.65
4	2-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	2-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	2-N	404	GLU	C-N-CA	8.15	131.40	120.65
4	3-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	3-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	3-N	404	GLU	C-N-CA	8.15	131.40	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	4-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	4-N	404	GLU	C-N-CA	8.15	131.40	120.65
4	5-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	5-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	5-N	404	GLU	C-N-CA	8.15	131.40	120.65
4	6-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	6-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	6-N	404	GLU	C-N-CA	8.15	131.40	120.65
4	7-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	7-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	7-N	404	GLU	C-N-CA	8.15	131.40	120.65
4	8-L	422	ASN	N-CA-C	-8.15	98.01	111.37
6	8-N	404	GLU	CA-C-N	8.15	131.40	120.65
6	8-N	404	GLU	C-N-CA	8.15	131.40	120.65
5	1-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	2-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	3-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	4-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	5-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	6-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	7-S	339	TYR	N-CA-C	8.14	120.83	107.23
5	8-S	339	TYR	N-CA-C	8.14	120.83	107.23
4	1-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	1-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	2-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	2-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	3-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	3-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	4-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	4-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	5-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	5-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	6-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	6-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	7-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	7-R	422	ASN	N-CA-C	-8.13	98.03	111.37
4	8-F	397	ARG	N-CA-C	-8.13	102.49	111.36
4	8-R	422	ASN	N-CA-C	-8.13	98.03	111.37
3	1-P	1508	LYS	O-C-N	8.13	133.40	122.59
3	2-P	1508	LYS	O-C-N	8.13	133.40	122.59
3	3-P	1508	LYS	O-C-N	8.13	133.40	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-P	1508	LYS	O-C-N	8.13	133.40	122.59
3	5-P	1508	LYS	O-C-N	8.13	133.40	122.59
3	6-P	1508	LYS	O-C-N	8.13	133.40	122.59
3	7-P	1508	LYS	O-C-N	8.13	133.40	122.59
3	8-P	1508	LYS	O-C-N	8.13	133.40	122.59
5	1-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	1-N	385	ASP	O-C-N	8.13	130.44	122.07
5	2-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	2-N	385	ASP	O-C-N	8.13	130.44	122.07
5	3-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	3-N	385	ASP	O-C-N	8.13	130.44	122.07
5	4-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	4-N	385	ASP	O-C-N	8.13	130.44	122.07
5	5-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	5-N	385	ASP	O-C-N	8.13	130.44	122.07
5	6-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	6-N	385	ASP	O-C-N	8.13	130.44	122.07
5	7-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	7-N	385	ASP	O-C-N	8.13	130.44	122.07
5	8-M	270	GLU	N-CA-C	-8.13	102.50	111.36
6	8-N	385	ASP	O-C-N	8.13	130.44	122.07
5	1-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	2-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	3-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	4-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	5-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	6-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	7-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	8-M	339	TYR	N-CA-C	8.13	120.80	107.23
5	1-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	2-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	3-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	4-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	5-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	6-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	7-Y	339	TYR	N-CA-C	8.13	120.80	107.23
5	8-Y	339	TYR	N-CA-C	8.13	120.80	107.23
6	1-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	1-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	2-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	2-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	3-Z	404	GLU	CA-C-N	8.12	131.37	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	4-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	4-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	5-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	5-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	6-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	6-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	7-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	7-Z	404	GLU	C-N-CA	8.12	131.37	120.65
6	8-Z	404	GLU	CA-C-N	8.12	131.37	120.65
6	8-Z	404	GLU	C-N-CA	8.12	131.37	120.65
3	1-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	1-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	2-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	2-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	3-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	3-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	4-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	4-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	5-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	5-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	6-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	6-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	7-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	7-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
3	8-P	1547	LEU	CA-C-N	-8.12	109.40	120.44
3	8-P	1547	LEU	C-N-CA	-8.12	109.40	120.44
6	1-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	2-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	3-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	4-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	5-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	6-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	7-Z	385	ASP	O-C-N	8.11	130.43	122.07
6	8-Z	385	ASP	O-C-N	8.11	130.43	122.07
3	1-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	1-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	2-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	2-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	3-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	3-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	4-J	1547	LEU	CA-C-N	-8.11	109.42	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	5-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	5-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	6-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	6-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	7-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	7-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
3	8-J	1547	LEU	CA-C-N	-8.11	109.42	120.44
3	8-J	1547	LEU	C-N-CA	-8.11	109.42	120.44
5	1-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	2-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	3-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	4-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	5-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	6-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	7-G	339	TYR	N-CA-C	8.10	120.76	107.23
5	8-G	339	TYR	N-CA-C	8.10	120.76	107.23
3	1-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	1-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	1-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	4-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	5-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	1-S	270	GLU	N-CA-C	-8.10	102.53	111.36
3	2-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	2-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	2-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	2-S	270	GLU	N-CA-C	-8.10	102.53	111.36
3	3-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	3-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	3-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	3-S	270	GLU	N-CA-C	-8.10	102.53	111.36
3	4-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	4-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	4-S	270	GLU	N-CA-C	-8.10	102.53	111.36
3	5-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	5-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	8-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	5-S	270	GLU	N-CA-C	-8.10	102.53	111.36
3	6-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	6-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	6-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	6-S	270	GLU	N-CA-C	-8.10	102.53	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	7-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	7-G	261	PHE	N-CA-C	-8.10	102.45	111.28
5	7-S	270	GLU	N-CA-C	-8.10	102.53	111.36
3	8-D	1547	LEU	CA-C-N	-8.10	109.43	120.44
3	8-D	1547	LEU	C-N-CA	-8.10	109.43	120.44
5	8-S	270	GLU	N-CA-C	-8.10	102.53	111.36
6	1-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	1-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	2-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	2-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	3-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	3-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	4-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	4-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	5-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	5-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	6-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	6-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	7-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	7-H	404	GLU	C-N-CA	8.09	131.33	120.65
6	8-H	404	GLU	CA-C-N	8.09	131.33	120.65
6	8-H	404	GLU	C-N-CA	8.09	131.33	120.65
4	1-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	2-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	3-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	4-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	5-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	6-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	7-L	461	ARG	O-C-N	-8.09	111.83	122.59
4	8-L	461	ARG	O-C-N	-8.09	111.83	122.59
3	1-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	1-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	1-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	1-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	2-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	2-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	2-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	2-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	3-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	3-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	3-X	461	ARG	O-C-N	-8.09	111.83	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	4-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	4-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	4-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	4-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	5-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	5-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	5-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	5-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	6-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	6-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	6-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	6-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	7-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	7-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	7-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	7-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
3	8-V	657	PRO	CA-C-N	8.09	131.93	120.28
3	8-V	657	PRO	C-N-CA	8.09	131.93	120.28
4	8-X	461	ARG	O-C-N	-8.09	111.83	122.59
5	8-Y	270	GLU	N-CA-C	-8.09	102.54	111.36
4	1-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	1-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	1-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	2-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	2-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	2-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	3-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	3-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	3-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	4-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	4-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	4-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	5-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	5-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	5-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	6-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	6-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	6-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	7-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	7-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	7-T	404	GLU	C-N-CA	8.09	131.33	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	403	ILE	N-CA-C	8.09	126.16	109.34
6	8-T	404	GLU	CA-C-N	8.09	131.33	120.65
6	8-T	404	GLU	C-N-CA	8.09	131.33	120.65
4	1-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	1-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	2-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	2-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	3-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	3-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	4-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	4-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	5-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	5-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	6-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	6-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	7-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	7-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	8-F	461	ARG	O-C-N	-8.08	111.84	122.59
5	8-S	261	PHE	N-CA-C	-8.08	102.47	111.28
4	1-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	2-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	3-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	4-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	5-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	6-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	7-R	461	ARG	O-C-N	-8.08	111.84	122.59
4	8-R	461	ARG	O-C-N	-8.08	111.84	122.59
3	1-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	1-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	1-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	1-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	2-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	2-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	2-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	2-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	3-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	3-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	3-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	3-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	4-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	4-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	4-X	403	ILE	N-CA-C	8.08	126.14	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	5-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	5-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	5-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	5-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	6-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	6-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	6-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	6-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	7-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	7-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	7-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	7-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
3	8-V	1547	LEU	CA-C-N	-8.08	109.45	120.44
3	8-V	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	8-X	403	ILE	N-CA-C	8.08	126.14	109.34
5	8-Y	261	PHE	N-CA-C	-8.08	102.47	111.28
4	1-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	2-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	3-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	4-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	5-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	6-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	7-R	403	ILE	N-CA-C	8.08	126.14	109.34
4	8-R	403	ILE	N-CA-C	8.08	126.14	109.34
6	1-T	385	ASP	O-C-N	8.07	130.39	122.07
6	2-T	385	ASP	O-C-N	8.07	130.39	122.07
6	3-T	385	ASP	O-C-N	8.07	130.39	122.07
6	4-T	385	ASP	O-C-N	8.07	130.39	122.07
6	5-T	385	ASP	O-C-N	8.07	130.39	122.07
6	6-T	385	ASP	O-C-N	8.07	130.39	122.07
6	7-T	385	ASP	O-C-N	8.07	130.39	122.07
6	8-T	385	ASP	O-C-N	8.07	130.39	122.07
5	1-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	1-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	1-J	657	PRO	C-N-CA	8.07	131.90	120.28
5	2-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	2-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	2-J	657	PRO	C-N-CA	8.07	131.90	120.28
5	3-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	3-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	3-J	657	PRO	C-N-CA	8.07	131.90	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	4-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	4-J	657	PRO	C-N-CA	8.07	131.90	120.28
5	5-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	5-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	5-J	657	PRO	C-N-CA	8.07	131.90	120.28
5	6-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	6-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	6-J	657	PRO	C-N-CA	8.07	131.90	120.28
5	7-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	7-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	7-J	657	PRO	C-N-CA	8.07	131.90	120.28
5	8-G	270	GLU	N-CA-C	-8.07	102.56	111.36
3	8-J	657	PRO	CA-C-N	8.07	131.90	120.28
3	8-J	657	PRO	C-N-CA	8.07	131.90	120.28
4	1-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	1-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	2-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	2-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	3-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	3-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	4-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	4-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	5-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	5-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	6-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	6-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	7-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	7-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	8-X	348	GLN	CA-C-N	-8.07	108.83	120.29
4	8-X	348	GLN	C-N-CA	-8.07	108.83	120.29
4	1-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	1-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	2-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	2-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	3-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	3-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	4-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	4-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	5-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	5-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	6-R	348	GLN	CA-C-N	-8.07	108.83	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	7-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	7-R	348	GLN	C-N-CA	-8.07	108.83	120.29
4	8-R	348	GLN	CA-C-N	-8.07	108.83	120.29
4	8-R	348	GLN	C-N-CA	-8.07	108.83	120.29
6	1-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	2-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	3-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	4-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	5-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	6-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	7-N	391	GLN	N-CA-C	-8.07	102.43	111.71
6	8-N	391	GLN	N-CA-C	-8.07	102.43	111.71
3	1-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	1-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	2-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	2-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	3-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	3-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	4-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	4-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	5-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	5-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	6-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	6-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	7-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	7-P	657	PRO	C-N-CA	8.06	131.89	120.28
3	8-P	657	PRO	CA-C-N	8.06	131.89	120.28
3	8-P	657	PRO	C-N-CA	8.06	131.89	120.28
4	1-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	2-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	3-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	4-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	5-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	6-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	7-L	403	ILE	N-CA-C	8.06	126.11	109.34
4	8-L	403	ILE	N-CA-C	8.06	126.11	109.34
6	1-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	2-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	3-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	4-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	5-Z	391	GLN	N-CA-C	-8.05	102.45	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	7-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	8-Z	391	GLN	N-CA-C	-8.05	102.45	111.71
6	1-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	2-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	3-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	4-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	5-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	6-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	7-T	391	GLN	N-CA-C	-8.05	102.45	111.71
6	8-T	391	GLN	N-CA-C	-8.05	102.45	111.71
4	1-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	1-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	2-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	2-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	3-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	3-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	4-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	4-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	5-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	5-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	6-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	6-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	7-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	7-L	348	GLN	C-N-CA	-8.04	108.87	120.29
4	8-L	348	GLN	CA-C-N	-8.04	108.87	120.29
4	8-L	348	GLN	C-N-CA	-8.04	108.87	120.29
6	1-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	2-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	3-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	4-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	5-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	6-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	7-H	391	GLN	N-CA-C	-8.04	102.46	111.71
6	8-H	391	GLN	N-CA-C	-8.04	102.46	111.71
3	1-V	1537	GLN	N-CA-C	8.03	120.12	111.36
3	2-V	1537	GLN	N-CA-C	8.03	120.12	111.36
3	3-V	1537	GLN	N-CA-C	8.03	120.12	111.36
3	4-V	1537	GLN	N-CA-C	8.03	120.12	111.36
3	5-V	1537	GLN	N-CA-C	8.03	120.12	111.36
3	6-V	1537	GLN	N-CA-C	8.03	120.12	111.36
3	7-V	1537	GLN	N-CA-C	8.03	120.12	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1537	GLN	N-CA-C	8.03	120.12	111.36
5	1-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	2-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	3-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	4-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	5-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	6-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	7-M	261	PHE	N-CA-C	-8.03	102.53	111.28
5	8-M	261	PHE	N-CA-C	-8.03	102.53	111.28
6	1-H	385	ASP	O-C-N	8.03	130.34	122.07
6	2-H	385	ASP	O-C-N	8.03	130.34	122.07
6	3-H	385	ASP	O-C-N	8.03	130.34	122.07
6	4-H	385	ASP	O-C-N	8.03	130.34	122.07
6	5-H	385	ASP	O-C-N	8.03	130.34	122.07
6	6-H	385	ASP	O-C-N	8.03	130.34	122.07
6	7-H	385	ASP	O-C-N	8.03	130.34	122.07
6	8-H	385	ASP	O-C-N	8.03	130.34	122.07
3	1-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	1-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	2-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	2-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	3-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	3-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	4-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	4-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	5-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	5-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	6-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	6-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	7-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	7-D	657	PRO	C-N-CA	8.03	131.84	120.28
3	8-D	657	PRO	CA-C-N	8.03	131.84	120.28
3	8-D	657	PRO	C-N-CA	8.03	131.84	120.28
4	1-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	2-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	3-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	4-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	5-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	6-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	7-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	8-F	143	GLN	N-CA-C	-8.02	103.06	113.17
4	1-F	348	GLN	CA-C-N	-8.02	108.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	2-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	2-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	3-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	3-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	4-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	4-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	5-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	5-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	6-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	6-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	7-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	7-F	348	GLN	C-N-CA	-8.02	108.90	120.29
4	8-F	348	GLN	CA-C-N	-8.02	108.90	120.29
4	8-F	348	GLN	C-N-CA	-8.02	108.90	120.29
3	1-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	2-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	3-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	4-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	5-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	6-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	7-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	8-P	1537	GLN	N-CA-C	8.01	120.09	111.36
3	1-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	1-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	1-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	2-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	2-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	2-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	3-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	3-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	3-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	4-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	4-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	4-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	5-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	5-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	5-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	6-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	6-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	6-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	7-D	1537	GLN	N-CA-C	8.01	120.09	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	7-M	376	ASN	N-CA-C	-8.01	102.55	111.28
3	8-D	1537	GLN	N-CA-C	8.01	120.09	111.36
3	8-J	1537	GLN	N-CA-C	8.01	120.09	111.36
5	8-M	376	ASN	N-CA-C	-8.01	102.55	111.28
4	1-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	1-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	1-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	2-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	2-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	2-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	3-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	3-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	3-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	4-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	4-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	4-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	5-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	5-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	5-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	6-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	6-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	6-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	7-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	7-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	7-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	8-R	299	ASN	N-CA-C	-8.00	92.13	109.81
5	8-S	376	ASN	N-CA-C	-8.00	102.56	111.28
4	8-X	299	ASN	N-CA-C	-8.00	92.12	109.81
4	1-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	1-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	2-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	2-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	3-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	3-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	4-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	4-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	5-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	5-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	6-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	6-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	7-L	299	ASN	N-CA-C	-8.00	92.13	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	8-L	299	ASN	N-CA-C	-8.00	92.13	109.81
4	8-X	143	GLN	N-CA-C	-8.00	103.09	113.17
4	1-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	1-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	2-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	2-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	3-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	3-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	4-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	4-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	5-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	5-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	6-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	6-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	7-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	7-R	143	GLN	N-CA-C	-8.00	103.09	113.17
4	8-F	299	ASN	N-CA-C	-8.00	92.14	109.81
4	8-R	143	GLN	N-CA-C	-8.00	103.09	113.17
5	1-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	2-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	3-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	4-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	5-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	6-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	7-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
5	8-Y	376	ASN	N-CA-C	-7.99	102.57	111.28
4	1-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	2-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	3-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	4-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	5-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	6-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	7-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
4	8-L	132	ASP	N-CA-CB	-7.99	97.89	110.28
5	1-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	1-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	2-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	2-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	3-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	3-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	4-G	376	ASN	N-CA-C	-7.99	102.57	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	5-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	5-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	6-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	6-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	7-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	7-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	8-G	376	ASN	N-CA-C	-7.99	102.57	111.28
4	8-R	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	1-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	1-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	1-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	2-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	2-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	2-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	3-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	3-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	3-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	4-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	4-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	4-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	5-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	5-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	5-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	6-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	6-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	6-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	7-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	7-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	7-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	8-S	379	HIS	N-CA-C	7.99	127.81	110.80
4	8-X	132	ASP	N-CA-CB	-7.99	97.90	110.28
5	8-Y	379	HIS	N-CA-C	7.99	127.81	110.80
5	1-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	2-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	3-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	4-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	5-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	6-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	7-G	379	HIS	N-CA-C	7.98	127.81	110.80
5	8-G	379	HIS	N-CA-C	7.98	127.81	110.80
4	1-L	143	GLN	N-CA-C	-7.98	103.11	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	143	GLN	N-CA-C	-7.98	103.11	113.17
4	3-L	143	GLN	N-CA-C	-7.98	103.11	113.17
4	4-L	143	GLN	N-CA-C	-7.98	103.11	113.17
4	5-L	143	GLN	N-CA-C	-7.98	103.11	113.17
4	6-L	143	GLN	N-CA-C	-7.98	103.11	113.17
4	7-L	143	GLN	N-CA-C	-7.98	103.11	113.17
4	8-L	143	GLN	N-CA-C	-7.98	103.11	113.17
5	1-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	2-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	3-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	4-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	5-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	6-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	7-M	379	HIS	N-CA-C	7.98	127.79	110.80
5	8-M	379	HIS	N-CA-C	7.98	127.79	110.80
4	1-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	2-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	3-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	4-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	5-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	6-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	7-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
4	8-F	132	ASP	N-CA-CB	-7.97	97.92	110.28
5	1-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	2-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	3-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	4-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	5-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	6-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	7-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
5	8-S	352	GLN	CB-CA-C	-7.96	97.58	110.79
2	1-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	2-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	3-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	4-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	5-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	6-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	7-C	809	ALA	N-CA-C	-7.95	102.59	111.82
2	8-C	809	ALA	N-CA-C	-7.95	102.59	111.82
4	1-L	487	ASP	CA-C-O	7.95	129.10	119.49
4	2-L	487	ASP	CA-C-O	7.95	129.10	119.49
4	3-L	487	ASP	CA-C-O	7.95	129.10	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	487	ASP	CA-C-O	7.95	129.10	119.49
4	5-L	487	ASP	CA-C-O	7.95	129.10	119.49
4	6-L	487	ASP	CA-C-O	7.95	129.10	119.49
4	7-L	487	ASP	CA-C-O	7.95	129.10	119.49
4	8-L	487	ASP	CA-C-O	7.95	129.10	119.49
5	1-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	1-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	1-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	2-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	2-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	2-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	3-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	3-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	3-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	4-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	4-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	4-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	5-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	5-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	5-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	6-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	6-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	6-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	7-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	7-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	7-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
5	8-G	352	GLN	CB-CA-C	-7.95	97.60	110.79
3	8-J	1531	GLU	CA-C-O	-7.95	109.88	119.49
5	8-M	352	GLN	CB-CA-C	-7.95	97.60	110.79
4	1-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	2-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	3-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	4-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	5-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	6-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	7-X	487	ASP	CA-C-O	7.94	129.09	119.49
4	8-X	487	ASP	CA-C-O	7.94	129.09	119.49
5	1-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
5	2-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
5	3-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
5	4-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
5	5-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
5	7-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
5	8-Y	352	GLN	CB-CA-C	-7.94	97.62	110.79
6	1-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	2-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	3-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	4-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	5-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	6-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	7-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
6	8-Z	407	LEU	N-CA-CB	7.93	123.56	110.39
3	1-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	1-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	1-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	1-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	2-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	2-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	2-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	2-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	3-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	3-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	3-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	3-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	4-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	4-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	4-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	4-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	5-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	5-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	5-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	5-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	6-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	6-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	6-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	6-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	7-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	7-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	7-J	1448	MET	CA-C-N	7.93	136.69	121.54
3	7-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	8-D	1448	MET	CA-C-N	7.93	136.69	121.54
3	8-D	1448	MET	C-N-CA	7.93	136.69	121.54
3	8-J	1448	MET	CA-C-N	7.93	136.69	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1448	MET	C-N-CA	7.93	136.69	121.54
3	1-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	2-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	3-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	4-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	5-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	6-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	7-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
3	8-V	1531	GLU	CA-C-O	-7.93	109.90	119.49
4	1-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	1-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	1-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	2-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	2-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	2-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	3-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	3-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	3-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	4-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	4-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	4-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	5-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	5-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	5-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	6-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	6-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	6-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	7-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	7-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	7-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
4	8-F	487	ASP	CA-C-O	7.92	129.08	119.49
6	8-N	407	LEU	N-CA-CB	7.92	123.55	110.39
3	8-P	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	1-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	1-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	2-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	2-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	3-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	3-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	4-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	4-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	5-D	1504	VAL	N-CA-CB	7.92	122.98	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	6-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	6-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	7-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	7-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	8-D	1504	VAL	N-CA-CB	7.92	122.98	110.54
3	8-V	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	1-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	2-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	3-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	4-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	5-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	6-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	7-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
3	8-J	1504	VAL	N-CA-CB	7.92	122.97	110.54
4	1-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	1-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	2-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	2-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	3-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	3-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	4-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	4-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	5-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	5-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	6-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	6-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	7-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	7-T	407	LEU	N-CA-CB	7.92	123.53	110.39
4	8-R	401	TYR	CA-C-O	7.92	131.83	120.51
6	8-T	407	LEU	N-CA-CB	7.92	123.53	110.39
3	1-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	2-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	3-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	4-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	5-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	6-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	7-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
3	8-D	1531	GLU	CA-C-O	-7.92	109.91	119.49
4	1-F	401	TYR	CA-C-O	7.92	131.83	120.51
4	2-F	401	TYR	CA-C-O	7.92	131.83	120.51
4	3-F	401	TYR	CA-C-O	7.92	131.83	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	401	TYR	CA-C-O	7.92	131.83	120.51
4	5-F	401	TYR	CA-C-O	7.92	131.83	120.51
4	6-F	401	TYR	CA-C-O	7.92	131.83	120.51
4	7-F	401	TYR	CA-C-O	7.92	131.83	120.51
4	8-F	401	TYR	CA-C-O	7.92	131.83	120.51
2	1-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	2-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	3-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	4-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	5-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	6-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	7-I	809	ALA	N-CA-C	-7.91	102.64	111.82
2	8-I	809	ALA	N-CA-C	-7.91	102.64	111.82
3	1-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	1-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	1-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	1-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	2-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	2-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	2-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	2-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	3-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	3-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	3-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	3-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	4-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	4-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	4-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	4-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	5-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	5-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	5-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	5-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	6-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	6-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	6-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	6-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	7-J	1503	ILE	N-CA-C	-7.91	102.55	110.62
3	7-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	7-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	7-R	487	ASP	CA-C-O	7.91	129.06	119.49
3	8-J	1503	ILE	N-CA-C	-7.91	102.55	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1448	MET	CA-C-N	7.91	136.65	121.54
3	8-P	1448	MET	C-N-CA	7.91	136.65	121.54
4	8-R	487	ASP	CA-C-O	7.91	129.06	119.49
4	1-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	2-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	3-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	4-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	5-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	6-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	7-X	401	TYR	CA-C-O	7.91	131.82	120.51
4	8-X	401	TYR	CA-C-O	7.91	131.82	120.51
2	1-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	1-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	1-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	2-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	2-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	2-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	3-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	3-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	3-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	4-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	4-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	4-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	5-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	5-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	5-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	6-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	6-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	6-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	7-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	7-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	7-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
2	8-O	809	ALA	N-CA-C	-7.91	102.65	111.82
3	8-P	1531	GLU	CA-C-O	-7.91	109.92	119.49
5	8-S	324	ILE	CB-CA-C	-7.91	93.82	111.77
4	1-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	1-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	1-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	1-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	1-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	2-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	2-L	401	TYR	CA-C-O	7.91	131.81	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	2-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	2-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	3-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	3-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	3-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	3-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	3-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	4-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	4-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	4-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	4-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	4-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	5-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	5-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	5-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	5-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	5-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	6-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	6-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	6-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	6-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	6-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	7-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	7-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	7-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	7-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	7-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	8-F	483	ASP	N-CA-C	7.91	121.87	111.75
4	8-L	401	TYR	CA-C-O	7.91	131.81	120.51
5	8-M	324	ILE	CB-CA-C	-7.91	93.82	111.77
3	8-V	1448	MET	CA-C-N	7.91	136.64	121.54
3	8-V	1448	MET	C-N-CA	7.91	136.64	121.54
4	1-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	1-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	2-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	2-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	3-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	3-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	4-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	4-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	5-R	320	GLU	CB-CA-C	7.90	125.59	109.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	6-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	6-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	7-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	7-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	8-R	320	GLU	CB-CA-C	7.90	125.59	109.55
5	8-Y	324	ILE	CB-CA-C	-7.90	93.84	111.77
3	1-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	2-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	3-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	4-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	5-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	6-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	7-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
3	8-V	1503	ILE	N-CA-C	-7.90	102.56	110.62
5	1-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	1-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	2-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	2-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	3-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	3-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	4-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	4-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	5-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	5-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	6-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	6-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	7-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	7-R	330	PHE	N-CA-C	7.90	121.03	111.40
5	8-G	324	ILE	CB-CA-C	-7.90	93.84	111.77
4	8-R	330	PHE	N-CA-C	7.90	121.03	111.40
6	1-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	1-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	2-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	2-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	3-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	3-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	4-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	4-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	5-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	5-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	6-H	407	LEU	N-CA-CB	7.89	123.50	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	7-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	7-U	809	ALA	N-CA-C	-7.89	102.66	111.82
6	8-H	407	LEU	N-CA-CB	7.89	123.50	110.39
2	8-U	809	ALA	N-CA-C	-7.89	102.66	111.82
4	1-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	2-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	3-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	4-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	5-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	6-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	7-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	8-F	320	GLU	CB-CA-C	7.89	125.57	109.55
4	1-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	2-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	3-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	4-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	5-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	6-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	7-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	8-X	320	GLU	CB-CA-C	7.89	125.57	109.55
4	1-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	2-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	3-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	4-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	5-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	6-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	7-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	8-X	483	ASP	N-CA-C	7.89	121.85	111.75
4	1-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	1-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	1-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	2-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	2-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	2-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	3-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	3-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	3-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	4-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	4-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	4-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	5-L	320	GLU	CB-CA-C	7.87	125.53	109.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	5-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	6-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	6-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	6-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	7-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	7-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	7-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	8-L	320	GLU	CB-CA-C	7.87	125.53	109.55
4	8-L	330	PHE	N-CA-C	7.87	121.01	111.40
4	8-R	483	ASP	N-CA-C	7.87	121.83	111.75
4	1-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	2-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	3-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	4-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	5-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	6-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	7-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	8-X	455	ILE	O-C-N	-7.87	112.74	122.57
4	1-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	2-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	3-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	4-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	5-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	6-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	7-L	483	ASP	N-CA-C	7.86	121.81	111.75
4	8-L	483	ASP	N-CA-C	7.86	121.81	111.75
3	1-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	2-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	3-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	4-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	5-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	6-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	7-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	8-D	1503	ILE	N-CA-C	-7.86	102.61	110.62
3	1-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
3	2-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
3	3-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
3	4-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
3	5-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
3	6-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
3	7-P	1503	ILE	N-CA-C	-7.85	102.61	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1503	ILE	N-CA-C	-7.85	102.61	110.62
4	1-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	2-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	3-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	4-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	5-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	6-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	7-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	8-X	330	PHE	N-CA-C	7.85	120.97	111.40
4	1-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	2-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	3-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	4-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	5-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	6-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	7-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	8-F	455	ILE	O-C-N	-7.85	112.76	122.57
4	1-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	2-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	3-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	4-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	5-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	6-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	7-F	330	PHE	N-CA-C	7.83	120.96	111.40
4	8-F	330	PHE	N-CA-C	7.83	120.96	111.40
3	1-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	2-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	3-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	4-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	5-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	6-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	7-D	1521	TYR	O-C-N	7.83	131.08	122.15
3	8-D	1521	TYR	O-C-N	7.83	131.08	122.15
4	1-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	1-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	2-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	2-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	3-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	3-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	4-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	4-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	5-L	455	ILE	O-C-N	-7.83	112.78	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	6-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	6-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	7-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	7-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	8-L	455	ILE	O-C-N	-7.83	112.78	122.57
6	8-N	498	LYS	N-CA-CB	7.83	122.28	110.22
4	1-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	2-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	3-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	4-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	5-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	6-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	7-R	455	ILE	O-C-N	-7.82	112.80	122.57
4	8-R	455	ILE	O-C-N	-7.82	112.80	122.57
6	1-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	2-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	3-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	4-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	5-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	6-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	7-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	8-N	415	LYS	N-CA-CB	7.82	121.91	110.57
6	1-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	1-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	2-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	2-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	3-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	3-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	4-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	4-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	5-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	5-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	6-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	6-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	7-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	7-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	8-H	498	LYS	N-CA-CB	7.81	122.25	110.22
6	8-Z	498	LYS	N-CA-CB	7.81	122.25	110.22
6	1-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	2-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	3-T	498	LYS	N-CA-CB	7.81	122.24	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	5-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	6-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	7-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	8-T	498	LYS	N-CA-CB	7.81	122.24	110.22
6	1-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	2-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	3-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	4-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	5-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	6-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	7-H	415	LYS	N-CA-CB	7.80	121.88	110.57
6	8-H	415	LYS	N-CA-CB	7.80	121.88	110.57
2	1-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	2-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	3-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	4-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	5-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	6-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	7-C	217	ASP	N-CA-C	-7.80	103.65	113.01
2	8-C	217	ASP	N-CA-C	-7.80	103.65	113.01
3	1-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	2-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	3-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	4-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	5-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	6-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	7-P	1521	TYR	O-C-N	7.79	131.04	122.15
3	8-P	1521	TYR	O-C-N	7.79	131.04	122.15
6	1-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	2-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	3-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	4-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	5-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	6-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	7-T	415	LYS	N-CA-CB	7.79	121.87	110.57
6	8-T	415	LYS	N-CA-CB	7.79	121.87	110.57
2	1-I	217	ASP	N-CA-C	-7.79	103.67	113.01
2	2-I	217	ASP	N-CA-C	-7.79	103.67	113.01
2	3-I	217	ASP	N-CA-C	-7.79	103.67	113.01
2	4-I	217	ASP	N-CA-C	-7.79	103.67	113.01
2	5-I	217	ASP	N-CA-C	-7.79	103.67	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-I	217	ASP	N-CA-C	-7.79	103.67	113.01
2	7-I	217	ASP	N-CA-C	-7.79	103.67	113.01
2	8-I	217	ASP	N-CA-C	-7.79	103.67	113.01
5	1-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	1-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	2-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	2-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	3-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	3-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	4-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	4-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	5-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	5-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	6-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	6-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	7-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	7-S	323	GLU	N-CA-C	7.78	120.85	111.82
5	8-M	323	GLU	N-CA-C	7.78	120.85	111.82
5	8-S	323	GLU	N-CA-C	7.78	120.85	111.82
3	1-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	2-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	3-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	4-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	5-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	6-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	7-V	1521	TYR	O-C-N	7.78	131.01	122.15
3	8-V	1521	TYR	O-C-N	7.78	131.01	122.15
6	1-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	2-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	3-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	4-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	5-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	6-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	7-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
6	8-Z	415	LYS	N-CA-CB	7.77	121.84	110.57
3	1-J	1521	TYR	O-C-N	7.77	131.01	122.15
3	2-J	1521	TYR	O-C-N	7.77	131.01	122.15
3	3-J	1521	TYR	O-C-N	7.77	131.01	122.15
3	4-J	1521	TYR	O-C-N	7.77	131.01	122.15
3	5-J	1521	TYR	O-C-N	7.77	131.01	122.15
3	6-J	1521	TYR	O-C-N	7.77	131.01	122.15
3	7-J	1521	TYR	O-C-N	7.77	131.01	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1521	TYR	O-C-N	7.77	131.01	122.15
2	1-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	2-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	3-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	4-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	5-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	6-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	7-U	217	ASP	N-CA-C	-7.77	103.69	113.01
2	8-U	217	ASP	N-CA-C	-7.77	103.69	113.01
5	1-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	2-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	3-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	4-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	5-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	6-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	7-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	8-M	361	ARG	CA-C-O	-7.76	112.19	120.42
5	1-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	2-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	3-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	4-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	5-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	6-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	7-Y	323	GLU	N-CA-C	7.76	120.83	111.82
5	8-Y	323	GLU	N-CA-C	7.76	120.83	111.82
2	1-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	2-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	3-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	4-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	5-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	6-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	7-I	486	ARG	N-CA-C	-7.76	102.82	111.28
2	8-I	486	ARG	N-CA-C	-7.76	102.82	111.28
5	1-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	2-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	3-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	4-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	5-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	6-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	7-G	361	ARG	CA-C-O	-7.76	112.19	120.42
5	8-G	361	ARG	CA-C-O	-7.76	112.19	120.42
2	1-U	341	ALA	N-CA-C	7.76	120.72	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	3-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	4-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	5-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	6-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	7-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	8-U	341	ALA	N-CA-C	7.76	120.72	111.33
2	1-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	1-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	1-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	2-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	2-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	2-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	3-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	3-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	3-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	4-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	4-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	4-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	5-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	5-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	5-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	6-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	6-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	6-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	7-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	7-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	7-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	8-O	217	ASP	N-CA-C	-7.75	103.71	113.01
4	8-X	448	ARG	CA-C-N	-7.75	106.73	121.54
4	8-X	448	ARG	C-N-CA	-7.75	106.73	121.54
2	1-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	1-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	2-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	2-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	3-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	3-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	4-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	4-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	5-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	5-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	6-O	486	ARG	N-CA-C	-7.75	102.83	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	7-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	7-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	8-O	486	ARG	N-CA-C	-7.75	102.83	111.28
5	8-Y	361	ARG	CA-C-O	-7.75	112.21	120.42
2	1-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	2-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	3-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	4-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	5-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	6-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	7-O	341	ALA	N-CA-C	7.75	120.70	111.33
2	8-O	341	ALA	N-CA-C	7.75	120.70	111.33
4	1-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	1-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	1-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	2-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	2-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	2-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	3-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	3-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	3-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	4-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	4-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	4-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	5-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	5-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	5-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	6-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	6-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	6-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	7-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	7-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	7-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	8-F	428	LYS	CA-C-N	-7.74	111.50	119.94
4	8-F	428	LYS	C-N-CA	-7.74	111.50	119.94
5	8-S	361	ARG	CA-C-O	-7.74	112.21	120.42
4	1-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	1-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	1-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	1-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	2-L	448	ARG	CA-C-N	-7.74	106.76	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	2-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	2-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	3-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	3-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	3-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	3-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	4-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	4-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	4-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	4-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	5-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	5-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	5-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	5-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	6-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	6-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	6-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	6-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	7-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	7-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	7-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	7-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	8-L	448	ARG	CA-C-N	-7.74	106.76	121.54
4	8-L	448	ARG	C-N-CA	-7.74	106.76	121.54
4	8-R	448	ARG	CA-C-N	-7.74	106.75	121.54
4	8-R	448	ARG	C-N-CA	-7.74	106.75	121.54
4	1-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	1-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	2-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	2-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	3-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	3-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	4-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	4-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	5-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	5-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	6-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	6-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	7-F	448	ARG	CA-C-N	-7.74	106.76	121.54
4	7-F	448	ARG	C-N-CA	-7.74	106.76	121.54
4	8-F	448	ARG	CA-C-N	-7.74	106.76	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	448	ARG	C-N-CA	-7.74	106.76	121.54
2	1-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	1-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	2-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	2-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	3-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	3-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	4-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	4-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	5-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	5-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	6-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	6-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	7-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	7-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	8-C	341	ALA	N-CA-C	7.73	120.68	111.33
5	8-G	323	GLU	N-CA-C	7.73	120.79	111.82
2	1-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	2-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	3-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	4-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	5-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	6-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	7-I	341	ALA	N-CA-C	7.73	120.68	111.33
2	8-I	341	ALA	N-CA-C	7.73	120.68	111.33
4	1-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	1-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	2-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	2-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	3-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	3-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	4-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	4-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	5-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	5-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	6-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	6-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	7-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	7-L	428	LYS	C-N-CA	-7.73	111.52	119.94
4	8-L	428	LYS	CA-C-N	-7.73	111.52	119.94
4	8-L	428	LYS	C-N-CA	-7.73	111.52	119.94
2	1-C	486	ARG	N-CA-C	-7.72	102.86	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	1-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	2-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	2-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	2-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	3-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	3-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	3-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	4-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	4-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	4-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	5-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	5-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	5-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	6-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	6-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	6-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	7-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	7-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	7-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	8-C	486	ARG	N-CA-C	-7.72	102.86	111.28
4	8-X	428	LYS	CA-C-N	-7.72	111.52	119.94
4	8-X	428	LYS	C-N-CA	-7.72	111.52	119.94
2	1-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	2-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	3-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	4-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	5-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	6-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	7-U	486	ARG	N-CA-C	-7.72	102.86	111.28
2	8-U	486	ARG	N-CA-C	-7.72	102.86	111.28
4	1-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	1-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	2-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	2-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	3-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	3-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	4-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	4-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	5-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	5-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	6-R	428	LYS	CA-C-N	-7.72	111.53	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	7-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	7-R	428	LYS	C-N-CA	-7.72	111.53	119.94
4	8-R	428	LYS	CA-C-N	-7.72	111.53	119.94
4	8-R	428	LYS	C-N-CA	-7.72	111.53	119.94
6	1-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	1-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	1-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	1-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	2-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	2-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	2-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	2-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	3-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	3-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	3-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	3-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	4-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	4-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	4-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	4-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	5-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	5-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	5-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	5-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	6-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	6-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	6-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	6-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	7-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	7-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	7-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	7-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	8-N	410	LEU	CA-C-N	7.68	136.21	121.54
6	8-N	410	LEU	C-N-CA	7.68	136.21	121.54
4	8-R	405	ALA	CA-C-N	7.68	131.59	120.38
4	8-R	405	ALA	C-N-CA	7.68	131.59	120.38
6	1-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	1-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	2-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	2-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	3-H	410	LEU	CA-C-N	7.68	136.21	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	4-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	4-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	5-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	5-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	6-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	6-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	7-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	7-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	8-H	410	LEU	CA-C-N	7.68	136.21	121.54
6	8-H	410	LEU	C-N-CA	7.68	136.21	121.54
6	1-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	1-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	2-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	2-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	3-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	3-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	4-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	4-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	5-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	5-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	6-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	6-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	7-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	7-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	8-T	410	LEU	CA-C-N	7.68	136.21	121.54
6	8-T	410	LEU	C-N-CA	7.68	136.21	121.54
6	1-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	1-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	2-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	2-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	3-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	3-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	4-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	4-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	5-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	5-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	6-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	6-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	7-Z	410	LEU	CA-C-N	7.68	136.20	121.54
6	7-Z	410	LEU	C-N-CA	7.68	136.20	121.54
6	8-Z	410	LEU	CA-C-N	7.68	136.20	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	410	LEU	C-N-CA	7.68	136.20	121.54
5	1-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	1-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	2-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	2-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	3-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	3-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	4-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	4-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	5-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	5-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	6-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	6-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	7-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	7-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	8-G	327	ARG	N-CA-C	7.67	127.13	110.80
6	8-H	366	ILE	N-CA-C	-7.67	103.06	110.42
5	1-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	1-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	1-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	2-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	2-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	2-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	3-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	3-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	3-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	4-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	4-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	4-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	5-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	5-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	5-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	6-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	6-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	6-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	7-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	7-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	7-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	8-G	347	ARG	N-CA-C	-7.66	103.19	112.54
4	8-X	405	ALA	CA-C-N	7.66	131.57	120.38
4	8-X	405	ALA	C-N-CA	7.66	131.57	120.38
5	1-Y	327	ARG	N-CA-C	7.66	127.12	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	3-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	4-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	5-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	6-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	7-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	8-Y	327	ARG	N-CA-C	7.66	127.12	110.80
5	1-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	2-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	3-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	4-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	5-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	6-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	7-S	327	ARG	N-CA-C	7.66	127.11	110.80
5	8-S	327	ARG	N-CA-C	7.66	127.11	110.80
6	1-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	2-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	3-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	4-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	5-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	6-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	7-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	8-T	366	ILE	N-CA-C	-7.66	103.07	110.42
6	1-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	2-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	3-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	4-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	5-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	6-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	7-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	8-N	366	ILE	N-CA-C	-7.65	103.08	110.42
6	1-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	2-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	3-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	4-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	5-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	6-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	7-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
6	8-Z	366	ILE	N-CA-C	-7.65	103.08	110.42
3	1-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	1-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	1-J	1534	ARG	CA-C-N	7.64	130.53	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	2-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	2-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	2-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	2-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	3-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	3-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	3-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	3-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	4-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	4-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	4-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	4-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	5-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	5-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	5-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	5-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	6-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	6-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	6-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	6-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	7-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	7-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	7-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	7-J	1534	ARG	C-N-CA	7.64	130.53	120.28
3	8-D	1534	ARG	CA-C-N	7.64	130.53	120.28
3	8-D	1534	ARG	C-N-CA	7.64	130.53	120.28
3	8-J	1534	ARG	CA-C-N	7.64	130.53	120.28
3	8-J	1534	ARG	C-N-CA	7.64	130.53	120.28
5	1-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	1-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	2-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	2-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	3-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	3-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	4-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	4-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	5-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	5-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	6-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	6-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	7-M	327	ARG	N-CA-C	7.64	127.08	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	347	ARG	N-CA-C	-7.64	103.22	112.54
5	8-M	327	ARG	N-CA-C	7.64	127.08	110.80
5	8-S	347	ARG	N-CA-C	-7.64	103.22	112.54
4	1-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	2-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	3-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	4-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	5-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	6-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	7-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	8-F	492	GLU	N-CA-CB	7.64	123.39	110.49
4	1-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	1-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	2-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	2-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	3-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	3-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	4-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	4-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	5-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	5-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	6-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	6-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	7-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	7-F	405	ALA	C-N-CA	7.63	131.53	120.38
4	8-F	405	ALA	CA-C-N	7.63	131.53	120.38
4	8-F	405	ALA	C-N-CA	7.63	131.53	120.38
5	1-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	1-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	2-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	2-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	3-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	3-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	4-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	4-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	5-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	5-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	6-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	6-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	7-S	343	ALA	CA-C-N	7.63	136.12	121.54
5	7-S	343	ALA	C-N-CA	7.63	136.12	121.54
5	8-S	343	ALA	CA-C-N	7.63	136.12	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-S	343	ALA	C-N-CA	7.63	136.12	121.54
6	1-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	2-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	3-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	4-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	5-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	6-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	7-T	473	GLN	N-CA-CB	7.63	121.07	110.01
6	8-T	473	GLN	N-CA-CB	7.63	121.07	110.01
4	1-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	1-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	1-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	1-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	2-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	2-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	2-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	2-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	3-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	3-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	3-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	3-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	4-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	4-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	4-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	4-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	5-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	5-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	5-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	5-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	6-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	6-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	6-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	6-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	7-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	7-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	7-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	7-T	377	ARG	C-N-CA	-7.63	107.98	120.72
4	8-L	405	ALA	CA-C-N	7.63	131.52	120.38
4	8-L	405	ALA	C-N-CA	7.63	131.52	120.38
6	8-T	377	ARG	CA-C-N	-7.63	107.98	120.72
6	8-T	377	ARG	C-N-CA	-7.63	107.98	120.72
5	1-G	343	ALA	CA-C-N	7.63	136.11	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	2-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	2-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	3-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	3-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	4-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	4-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	5-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	5-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	6-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	6-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	7-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	7-G	343	ALA	C-N-CA	7.63	136.11	121.54
5	8-G	343	ALA	CA-C-N	7.63	136.11	121.54
5	8-G	343	ALA	C-N-CA	7.63	136.11	121.54
6	1-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	1-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	1-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	1-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	2-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	2-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	2-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	2-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	3-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	3-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	3-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	3-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	4-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	4-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	4-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	4-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	5-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	5-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	5-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	5-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	6-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	6-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	6-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	6-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	7-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	7-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	7-Z	377	ARG	CA-C-N	-7.62	107.99	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
6	8-N	377	ARG	CA-C-N	-7.62	107.99	120.72
6	8-N	377	ARG	C-N-CA	-7.62	107.99	120.72
6	8-Z	377	ARG	CA-C-N	-7.62	107.99	120.72
6	8-Z	377	ARG	C-N-CA	-7.62	107.99	120.72
4	1-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	2-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	3-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	4-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	5-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	6-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	7-X	492	GLU	N-CA-CB	7.62	123.37	110.49
4	8-X	492	GLU	N-CA-CB	7.62	123.37	110.49
5	1-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	1-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	1-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	2-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	2-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	2-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	3-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	3-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	3-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	4-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	4-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	4-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	5-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	5-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	5-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	6-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	6-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	6-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	7-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	7-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	7-Y	343	ALA	C-N-CA	7.62	136.09	121.54
5	8-M	347	ARG	N-CA-C	-7.62	103.24	112.54
5	8-Y	343	ALA	CA-C-N	7.62	136.09	121.54
5	8-Y	343	ALA	C-N-CA	7.62	136.09	121.54
3	1-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	2-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	3-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	4-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	5-V	1687	GLY	N-CA-C	-7.62	103.59	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	7-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	8-V	1687	GLY	N-CA-C	-7.62	103.59	112.73
6	1-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	1-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	1-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	1-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	2-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	2-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	2-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	2-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	3-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	3-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	3-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	3-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	4-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	4-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	4-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	4-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	5-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	5-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	5-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	5-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	6-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	6-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	6-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	6-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	7-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	7-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	7-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	7-M	343	ALA	C-N-CA	7.61	136.08	121.54
6	8-H	377	ARG	CA-C-N	-7.61	108.01	120.72
6	8-H	377	ARG	C-N-CA	-7.61	108.01	120.72
5	8-M	343	ALA	CA-C-N	7.61	136.08	121.54
5	8-M	343	ALA	C-N-CA	7.61	136.08	121.54
3	1-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	1-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	2-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	2-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	3-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	3-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	4-P	1534	ARG	CA-C-N	7.61	130.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	5-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	5-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	6-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	6-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	7-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	7-P	1534	ARG	C-N-CA	7.61	130.48	120.28
3	8-P	1534	ARG	CA-C-N	7.61	130.48	120.28
3	8-P	1534	ARG	C-N-CA	7.61	130.48	120.28
5	1-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	1-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	2-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	2-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	3-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	3-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	4-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	4-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	5-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	5-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	6-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	6-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	7-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	7-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
5	8-Y	347	ARG	N-CA-C	-7.61	103.26	112.54
6	8-Z	473	GLN	N-CA-CB	7.61	121.04	110.01
4	1-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	2-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	3-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	4-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	5-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	6-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	7-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	8-R	492	GLU	N-CA-CB	7.61	123.35	110.49
4	1-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	2-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	3-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	4-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	5-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	6-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	7-L	492	GLU	N-CA-CB	7.61	123.35	110.49
4	8-L	492	GLU	N-CA-CB	7.61	123.35	110.49
3	1-D	1687	GLY	N-CA-C	-7.61	103.60	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	3-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	4-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	5-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	6-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	7-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	8-D	1687	GLY	N-CA-C	-7.61	103.60	112.73
3	1-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	1-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	2-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	2-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	3-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	3-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	4-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	4-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	5-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	5-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	6-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	6-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	7-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	7-V	1534	ARG	C-N-CA	7.60	130.47	120.28
3	8-V	1534	ARG	CA-C-N	7.60	130.47	120.28
3	8-V	1534	ARG	C-N-CA	7.60	130.47	120.28
4	1-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	1-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	1-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	1-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	1-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	2-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	2-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	2-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	2-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	2-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	3-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	3-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	3-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	3-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	3-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	4-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	4-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	4-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	4-T	466	ASP	C-N-CA	7.59	131.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	5-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	5-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	5-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	5-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	5-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	6-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	6-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	6-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	6-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	6-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	7-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	7-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	7-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	7-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	7-Y	366	GLU	N-CA-C	7.59	120.63	111.82
4	8-F	426	GLN	CA-C-O	-7.59	112.37	120.42
6	8-N	473	GLN	N-CA-CB	7.59	121.02	110.01
6	8-T	466	ASP	CA-C-N	7.59	131.21	120.28
6	8-T	466	ASP	C-N-CA	7.59	131.21	120.28
5	8-Y	366	GLU	N-CA-C	7.59	120.63	111.82
3	1-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	2-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	3-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	4-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	5-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	6-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	7-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
3	8-J	1687	GLY	N-CA-C	-7.59	103.62	112.73
4	1-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	2-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	3-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	4-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	5-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	6-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	7-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	8-L	426	GLN	CA-C-O	-7.59	112.38	120.42
4	1-X	426	GLN	CA-C-O	-7.59	112.38	120.42
4	2-X	426	GLN	CA-C-O	-7.59	112.38	120.42
4	3-X	426	GLN	CA-C-O	-7.59	112.38	120.42
4	4-X	426	GLN	CA-C-O	-7.59	112.38	120.42
4	5-X	426	GLN	CA-C-O	-7.59	112.38	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	426	GLN	CA-C-O	-7.59	112.38	120.42
4	7-X	426	GLN	CA-C-O	-7.59	112.38	120.42
4	8-X	426	GLN	CA-C-O	-7.59	112.38	120.42
6	1-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	2-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	3-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	4-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	5-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	6-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	7-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	8-H	473	GLN	N-CA-CB	7.58	121.01	110.01
6	1-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	2-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	3-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	4-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	5-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	6-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	7-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	8-T	404	GLU	N-CA-C	7.58	121.02	111.69
6	1-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	2-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	3-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	4-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	5-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	6-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	7-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	8-H	404	GLU	N-CA-C	7.58	121.02	111.69
6	1-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	1-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	2-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	2-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	3-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	3-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	4-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	4-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	5-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	5-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	6-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	6-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	7-N	466	ASP	CA-C-N	7.58	131.20	120.28
6	7-N	466	ASP	C-N-CA	7.58	131.20	120.28
6	8-N	466	ASP	CA-C-N	7.58	131.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	466	ASP	C-N-CA	7.58	131.20	120.28
4	1-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	1-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	2-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	2-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	3-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	3-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	4-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	4-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	5-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	5-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	6-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	6-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	7-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	7-R	475	SER	N-CA-CB	7.58	121.26	110.12
4	8-R	426	GLN	CA-C-O	-7.58	112.39	120.42
4	8-R	475	SER	N-CA-CB	7.58	121.26	110.12
6	1-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	1-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	2-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	2-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	3-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	3-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	4-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	4-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	5-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	5-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	6-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	6-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	7-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	7-Z	466	ASP	C-N-CA	7.57	131.19	120.28
6	8-Z	466	ASP	CA-C-N	7.57	131.19	120.28
6	8-Z	466	ASP	C-N-CA	7.57	131.19	120.28
2	1-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	1-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	1-S	366	GLU	N-CA-C	7.57	120.60	111.82
2	2-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	2-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	2-S	366	GLU	N-CA-C	7.57	120.60	111.82
2	3-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	3-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	3-S	366	GLU	N-CA-C	7.57	120.60	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	4-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	4-S	366	GLU	N-CA-C	7.57	120.60	111.82
2	5-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	5-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	5-S	366	GLU	N-CA-C	7.57	120.60	111.82
2	6-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	6-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	6-S	366	GLU	N-CA-C	7.57	120.60	111.82
2	7-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	7-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	7-S	366	GLU	N-CA-C	7.57	120.60	111.82
2	8-C	455	VAL	N-CA-C	-7.57	89.81	111.00
4	8-F	328	VAL	N-CA-CB	-7.57	102.99	112.15
5	8-S	366	GLU	N-CA-C	7.57	120.60	111.82
4	1-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	2-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	3-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	4-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	5-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	6-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	7-F	444	PHE	CA-C-O	7.57	128.57	120.55
4	8-F	444	PHE	CA-C-O	7.57	128.57	120.55
2	1-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	2-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	3-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	4-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	5-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	6-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	7-I	455	VAL	N-CA-C	-7.56	89.82	111.00
2	8-I	455	VAL	N-CA-C	-7.56	89.82	111.00
6	1-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	1-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	2-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	2-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	3-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	3-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	4-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	4-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	5-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	5-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	6-N	468	SER	N-CA-CB	7.56	122.73	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	7-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	7-O	455	VAL	N-CA-C	-7.56	89.83	111.00
6	8-N	468	SER	N-CA-CB	7.56	122.73	110.40
2	8-O	455	VAL	N-CA-C	-7.56	89.83	111.00
3	1-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	2-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	3-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	4-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	5-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	6-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	7-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
3	8-P	1687	GLY	N-CA-C	-7.56	103.66	112.73
4	1-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	1-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	2-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	2-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	3-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	3-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	4-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	4-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	5-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	5-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	6-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	6-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	7-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	7-U	455	VAL	N-CA-C	-7.56	89.83	111.00
4	8-R	444	PHE	CA-C-O	7.56	128.56	120.55
2	8-U	455	VAL	N-CA-C	-7.56	89.83	111.00
6	1-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	1-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	1-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	2-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	2-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	2-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	3-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	3-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	3-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	4-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	4-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	4-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	5-H	466	ASP	CA-C-N	7.56	131.16	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	5-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	6-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	6-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	6-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	7-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	7-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	7-J	1544	PRO	CA-C-O	7.56	131.52	120.56
6	8-H	466	ASP	CA-C-N	7.56	131.16	120.28
6	8-H	466	ASP	C-N-CA	7.56	131.16	120.28
3	8-J	1544	PRO	CA-C-O	7.56	131.52	120.56
4	1-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	1-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	2-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	2-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	3-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	3-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	4-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	4-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	5-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	5-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	6-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	6-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	7-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	7-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	8-L	444	PHE	CA-C-O	7.55	128.56	120.55
4	8-L	475	SER	N-CA-CB	7.55	121.23	110.12
4	1-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	1-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	2-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	2-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	3-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	3-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	4-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	4-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	5-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	5-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	6-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	6-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	7-L	328	VAL	N-CA-CB	-7.55	103.01	112.15
4	7-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	8-L	328	VAL	N-CA-CB	-7.55	103.01	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	475	SER	N-CA-CB	7.55	121.22	110.12
4	1-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	1-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	1-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	1-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	1-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	1-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	2-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	2-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	2-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	2-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	2-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	2-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	3-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	3-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	3-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	3-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	3-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	3-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	4-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	4-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	4-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	4-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	4-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	4-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	5-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	5-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	5-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	5-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	5-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	5-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	6-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	6-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	6-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	6-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	6-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	6-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	7-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	7-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	7-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	7-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	7-X	457	ALA	CA-C-N	-7.55	107.12	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	8-F	475	SER	N-CA-CB	7.55	121.22	110.12
5	8-G	366	GLU	N-CA-C	7.55	120.58	111.82
4	8-L	457	ALA	CA-C-N	-7.55	107.12	121.54
4	8-L	457	ALA	C-N-CA	-7.55	107.12	121.54
4	8-X	457	ALA	CA-C-N	-7.55	107.12	121.54
4	8-X	457	ALA	C-N-CA	-7.55	107.12	121.54
4	1-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	2-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	3-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	4-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	5-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	6-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	7-X	444	PHE	CA-C-O	7.55	128.55	120.55
4	8-X	444	PHE	CA-C-O	7.55	128.55	120.55
5	1-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	1-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	2-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	2-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	3-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	3-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	4-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	4-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	5-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	5-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	6-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	6-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	7-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	7-N	404	GLU	N-CA-C	7.55	120.97	111.69
5	8-M	366	GLU	N-CA-C	7.55	120.58	111.82
6	8-N	404	GLU	N-CA-C	7.55	120.97	111.69
1	1-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	1-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	1-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	2-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	2-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	2-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	3-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	3-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	3-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	4-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	4-B	395	GLY	C-N-CA	7.55	135.95	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	5-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	5-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	5-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	6-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	6-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	6-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	7-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	7-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	7-Z	468	SER	N-CA-CB	7.55	122.70	110.40
1	8-B	395	GLY	CA-C-N	7.55	135.95	121.54
1	8-B	395	GLY	C-N-CA	7.55	135.95	121.54
6	8-Z	468	SER	N-CA-CB	7.55	122.70	110.40
6	1-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	2-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	3-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	4-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	5-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	6-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	7-H	468	SER	N-CA-CB	7.54	122.69	110.40
6	8-H	468	SER	N-CA-CB	7.54	122.69	110.40
4	1-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	2-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	3-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	4-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	5-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	6-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	7-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	8-R	328	VAL	N-CA-CB	-7.53	103.03	112.15
4	1-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	2-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	3-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	4-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	5-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	6-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	7-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
4	8-X	328	VAL	N-CA-CB	-7.53	103.04	112.15
6	1-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	1-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	1-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	2-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	2-W	395	GLY	CA-C-N	7.53	135.92	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	3-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	3-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	3-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	4-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	4-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	4-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	5-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	5-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	5-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	6-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	6-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	6-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	7-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	7-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	7-W	395	GLY	C-N-CA	7.53	135.92	121.54
6	8-T	468	SER	N-CA-CB	7.53	122.67	110.40
1	8-W	395	GLY	CA-C-N	7.53	135.92	121.54
1	8-W	395	GLY	C-N-CA	7.53	135.92	121.54
3	1-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	1-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	2-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	2-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	3-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	3-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	4-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	4-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	5-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	5-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	6-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	6-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	7-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	7-V	1544	PRO	CA-C-O	7.53	131.47	120.56
3	8-P	1544	PRO	CA-C-O	7.53	131.47	120.56
3	8-V	1544	PRO	CA-C-O	7.53	131.47	120.56
4	1-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	1-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	2-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	2-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	3-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	3-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	4-R	457	ALA	CA-C-N	-7.52	107.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	5-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	5-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	6-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	6-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	7-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	7-R	457	ALA	C-N-CA	-7.52	107.17	121.54
4	8-R	457	ALA	CA-C-N	-7.52	107.17	121.54
4	8-R	457	ALA	C-N-CA	-7.52	107.17	121.54
1	1-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	1-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	1-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	1-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	2-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	2-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	2-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	2-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	3-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	3-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	3-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	3-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	4-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	4-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	4-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	4-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	5-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	5-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	5-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	5-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	6-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	6-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	6-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	6-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	7-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	7-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	7-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	7-F	457	ALA	C-N-CA	-7.52	107.17	121.54
1	8-E	395	GLY	CA-C-N	7.52	135.91	121.54
1	8-E	395	GLY	C-N-CA	7.52	135.91	121.54
4	8-F	457	ALA	CA-C-N	-7.52	107.17	121.54
4	8-F	457	ALA	C-N-CA	-7.52	107.17	121.54
3	1-D	1544	PRO	CA-C-O	7.52	131.47	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1544	PRO	CA-C-O	7.52	131.47	120.56
3	3-D	1544	PRO	CA-C-O	7.52	131.47	120.56
3	4-D	1544	PRO	CA-C-O	7.52	131.47	120.56
3	5-D	1544	PRO	CA-C-O	7.52	131.47	120.56
3	6-D	1544	PRO	CA-C-O	7.52	131.47	120.56
3	7-D	1544	PRO	CA-C-O	7.52	131.47	120.56
3	8-D	1544	PRO	CA-C-O	7.52	131.47	120.56
1	1-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	1-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	2-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	2-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	3-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	3-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	4-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	4-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	5-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	5-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	6-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	6-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	7-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	7-Q	395	GLY	C-N-CA	7.52	135.90	121.54
1	8-Q	395	GLY	CA-C-N	7.52	135.90	121.54
1	8-Q	395	GLY	C-N-CA	7.52	135.90	121.54
6	1-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	2-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	3-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	4-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	5-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	6-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	7-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	8-Z	404	GLU	N-CA-C	7.51	120.93	111.69
6	1-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	1-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	2-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	2-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	3-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	3-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	4-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	4-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	5-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	5-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	6-Z	413	LEU	CA-C-N	7.51	131.08	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	7-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	7-Z	413	LEU	C-N-CA	7.51	131.08	120.42
6	8-Z	413	LEU	CA-C-N	7.51	131.08	120.42
6	8-Z	413	LEU	C-N-CA	7.51	131.08	120.42
1	1-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	1-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	2-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	2-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	3-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	3-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	4-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	4-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	5-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	5-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	6-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	6-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	7-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	7-A	395	GLY	C-N-CA	7.51	135.88	121.54
1	8-A	395	GLY	CA-C-N	7.51	135.88	121.54
1	8-A	395	GLY	C-N-CA	7.51	135.88	121.54
6	1-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	1-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	2-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	2-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	3-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	3-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	4-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	4-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	5-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	5-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	6-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	6-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	7-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	7-T	413	LEU	C-N-CA	7.50	131.07	120.42
6	8-T	413	LEU	CA-C-N	7.50	131.07	120.42
6	8-T	413	LEU	C-N-CA	7.50	131.07	120.42
1	1-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	1-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	2-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	2-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	3-K	395	GLY	CA-C-N	7.50	135.87	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	4-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	4-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	5-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	5-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	6-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	6-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	7-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	7-K	395	GLY	C-N-CA	7.50	135.87	121.54
1	8-K	395	GLY	CA-C-N	7.50	135.87	121.54
1	8-K	395	GLY	C-N-CA	7.50	135.87	121.54
6	1-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	1-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	2-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	2-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	3-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	3-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	4-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	4-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	5-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	5-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	6-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	6-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	7-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	7-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	8-H	428	GLU	CA-C-N	-7.49	107.91	121.62
6	8-H	428	GLU	C-N-CA	-7.49	107.91	121.62
6	1-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	1-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	2-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	2-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	3-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	3-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	4-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	4-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	5-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	5-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	6-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	6-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	7-H	413	LEU	CA-C-N	7.49	131.06	120.42
6	7-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	8-H	413	LEU	CA-C-N	7.49	131.06	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	413	LEU	C-N-CA	7.49	131.06	120.42
6	1-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	1-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	2-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	2-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	3-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	3-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	4-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	4-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	5-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	5-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	6-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	6-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	7-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	7-N	413	LEU	C-N-CA	7.49	131.05	120.42
6	8-N	413	LEU	CA-C-N	7.49	131.05	120.42
6	8-N	413	LEU	C-N-CA	7.49	131.05	120.42
3	1-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	2-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	3-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	4-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	5-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	6-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	7-V	1540	LEU	N-CA-C	7.48	119.52	111.36
3	8-V	1540	LEU	N-CA-C	7.48	119.52	111.36
4	1-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	2-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	3-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	4-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	5-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	6-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	7-R	343	MET	CB-CA-C	-7.48	98.13	110.85
4	8-R	343	MET	CB-CA-C	-7.48	98.13	110.85
6	1-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	1-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	2-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	2-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	3-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	3-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	4-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	4-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	5-T	428	GLU	CA-C-N	-7.48	107.93	121.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	6-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	6-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	7-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	7-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	8-T	428	GLU	CA-C-N	-7.48	107.93	121.62
6	8-T	428	GLU	C-N-CA	-7.48	107.93	121.62
6	1-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	1-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	2-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	2-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	3-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	3-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	4-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	4-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	5-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	5-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	6-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	6-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	7-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	7-N	428	GLU	C-N-CA	-7.47	107.95	121.62
6	8-N	428	GLU	CA-C-N	-7.47	107.95	121.62
6	8-N	428	GLU	C-N-CA	-7.47	107.95	121.62
3	1-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	2-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	3-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	4-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	5-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	6-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	7-D	1540	LEU	N-CA-C	7.47	119.50	111.36
3	8-D	1540	LEU	N-CA-C	7.47	119.50	111.36
4	1-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	2-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	3-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	4-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	5-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	6-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	7-F	320	GLU	N-CA-CB	7.47	122.09	110.44
4	8-F	320	GLU	N-CA-CB	7.47	122.09	110.44
6	1-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	1-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	2-Z	428	GLU	CA-C-N	-7.47	107.95	121.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	3-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	3-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	4-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	4-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	5-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	5-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	6-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	6-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	7-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	7-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
6	8-Z	428	GLU	CA-C-N	-7.47	107.95	121.62
6	8-Z	428	GLU	C-N-CA	-7.47	107.95	121.62
4	1-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	1-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	2-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	2-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	3-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	3-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	4-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	4-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	5-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	5-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	6-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	6-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	7-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	7-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	8-X	320	GLU	N-CA-CB	7.46	122.09	110.44
4	8-X	343	MET	CB-CA-C	-7.46	98.16	110.85
4	1-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	2-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	3-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	4-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	5-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	6-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	7-F	391	ILE	N-CA-CB	7.46	120.69	110.54
4	8-F	391	ILE	N-CA-CB	7.46	120.69	110.54
1	1-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	1-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	2-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	2-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	3-B	398	ALA	N-CA-C	7.46	119.05	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	4-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	4-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	5-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	5-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	6-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	6-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	7-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	7-L	343	MET	CB-CA-C	-7.46	98.17	110.85
1	8-B	398	ALA	N-CA-C	7.46	119.05	111.07
4	8-L	343	MET	CB-CA-C	-7.46	98.17	110.85
4	1-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	1-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	1-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	2-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	2-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	2-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	3-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	3-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	3-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	4-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	4-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	4-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	5-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	5-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	5-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	6-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	6-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	6-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	7-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	7-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	7-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	8-F	343	MET	CB-CA-C	-7.46	98.17	110.85
3	8-P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	8-R	391	ILE	N-CA-CB	7.46	120.68	110.54
4	1-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	1-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	2-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	2-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	3-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	3-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	4-L	320	GLU	N-CA-CB	7.45	122.07	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	5-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	5-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	6-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	6-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	7-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	7-R	320	GLU	N-CA-CB	7.45	122.07	110.44
4	8-L	320	GLU	N-CA-CB	7.45	122.07	110.44
4	8-R	320	GLU	N-CA-CB	7.45	122.07	110.44
3	1-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	2-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	3-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	4-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	5-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	6-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	7-J	1540	LEU	N-CA-C	7.45	119.48	111.36
3	8-J	1540	LEU	N-CA-C	7.45	119.48	111.36
1	1-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	2-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	3-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	4-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	5-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	6-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	7-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	8-W	235	LEU	N-CA-C	7.45	120.68	108.99
1	1-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	2-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	3-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	4-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	5-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	6-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	7-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	8-W	398	ALA	N-CA-C	7.44	119.03	111.07
1	1-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	2-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	3-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	4-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	5-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	6-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	7-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	8-K	235	LEU	N-CA-C	7.44	120.67	108.99
1	1-E	235	LEU	N-CA-C	7.44	120.67	108.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	3-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	4-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	5-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	6-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	7-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	8-E	235	LEU	N-CA-C	7.44	120.67	108.99
1	1-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	1-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	1-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	2-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	2-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	2-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	3-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	3-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	3-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	4-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	4-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	4-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	5-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	5-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	5-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	6-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	6-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	6-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	7-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	7-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	7-K	398	ALA	N-CA-C	7.44	119.03	111.07
1	8-A	235	LEU	N-CA-C	7.44	120.67	108.99
2	8-C	214	GLU	N-CA-C	7.44	119.03	111.07
1	8-K	398	ALA	N-CA-C	7.44	119.03	111.07
4	1-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	2-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	3-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	4-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	5-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	6-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	7-X	391	ILE	N-CA-CB	7.44	120.66	110.54
4	8-X	391	ILE	N-CA-CB	7.44	120.66	110.54
2	1-O	214	GLU	N-CA-C	7.44	119.03	111.07
2	2-O	214	GLU	N-CA-C	7.44	119.03	111.07
2	3-O	214	GLU	N-CA-C	7.44	119.03	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-O	214	GLU	N-CA-C	7.44	119.03	111.07
2	5-O	214	GLU	N-CA-C	7.44	119.03	111.07
2	6-O	214	GLU	N-CA-C	7.44	119.03	111.07
2	7-O	214	GLU	N-CA-C	7.44	119.03	111.07
2	8-O	214	GLU	N-CA-C	7.44	119.03	111.07
1	1-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	1-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	2-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	2-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	3-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	3-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	4-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	4-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	5-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	5-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	6-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	6-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	7-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	7-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	8-E	398	ALA	N-CA-C	7.43	119.02	111.07
1	8-Q	235	LEU	N-CA-C	7.43	120.65	108.99
1	1-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	2-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	3-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	4-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	5-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	6-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	7-A	398	ALA	N-CA-C	7.43	119.02	111.07
1	8-A	398	ALA	N-CA-C	7.43	119.02	111.07
4	1-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	1-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	1-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	2-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	2-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	2-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	3-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	3-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	3-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	4-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	4-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	4-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	5-R	468	LYS	CA-C-N	-7.43	109.02	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	5-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	6-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	6-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	6-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	7-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	7-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	7-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	8-R	468	LYS	CA-C-N	-7.43	109.02	120.31
4	8-R	468	LYS	C-N-CA	-7.43	109.02	120.31
3	8-V	1484	ASP	N-CA-C	-7.43	103.19	111.28
4	1-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	1-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	2-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	2-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	3-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	3-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	4-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	4-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	5-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	5-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	6-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	6-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	7-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	7-L	468	LYS	C-N-CA	-7.42	109.02	120.31
4	8-L	468	LYS	CA-C-N	-7.42	109.02	120.31
4	8-L	468	LYS	C-N-CA	-7.42	109.02	120.31
1	1-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	2-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	3-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	4-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	5-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	6-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	7-B	235	LEU	N-CA-C	7.42	120.64	108.99
1	8-B	235	LEU	N-CA-C	7.42	120.64	108.99
2	1-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	1-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	2-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	2-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	3-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	3-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	4-I	214	GLU	N-CA-C	7.42	119.01	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	5-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	5-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	6-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	6-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	7-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	7-L	391	ILE	N-CA-CB	7.42	120.63	110.54
2	8-I	214	GLU	N-CA-C	7.42	119.01	111.07
4	8-L	391	ILE	N-CA-CB	7.42	120.63	110.54
5	1-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	2-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	3-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	4-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	5-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	6-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	7-M	380	ILE	N-CA-C	7.42	119.15	109.58
5	8-M	380	ILE	N-CA-C	7.42	119.15	109.58
2	1-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	2-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	3-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	4-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	5-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	6-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	7-U	233	VAL	N-CA-CB	7.41	123.46	111.23
2	8-U	233	VAL	N-CA-CB	7.41	123.46	111.23
5	1-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	1-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	2-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	2-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	3-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	3-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	4-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	4-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	5-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	5-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	6-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	6-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	7-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	7-U	214	GLU	N-CA-C	7.41	119.00	111.07
5	8-G	254	ASP	N-CA-C	7.41	119.00	111.07
2	8-U	214	GLU	N-CA-C	7.41	119.00	111.07
4	1-F	407	GLU	N-CA-C	7.41	119.35	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	407	GLU	N-CA-C	7.41	119.35	111.28
4	3-F	407	GLU	N-CA-C	7.41	119.35	111.28
4	4-F	407	GLU	N-CA-C	7.41	119.35	111.28
4	5-F	407	GLU	N-CA-C	7.41	119.35	111.28
4	6-F	407	GLU	N-CA-C	7.41	119.35	111.28
4	7-F	407	GLU	N-CA-C	7.41	119.35	111.28
4	8-F	407	GLU	N-CA-C	7.41	119.35	111.28
6	1-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	1-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	1-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	2-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	2-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	2-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	3-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	3-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	3-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	4-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	4-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	4-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	5-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	5-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	5-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	6-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	6-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	6-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	7-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	7-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	7-X	433	GLU	C-N-CA	-7.41	110.37	120.44
6	8-T	412	GLU	N-CA-CB	7.41	121.69	110.14
4	8-X	433	GLU	CA-C-N	-7.41	110.37	120.44
4	8-X	433	GLU	C-N-CA	-7.41	110.37	120.44
1	1-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	2-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	3-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	4-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	5-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	6-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	7-Q	398	ALA	N-CA-C	7.41	118.99	111.07
1	8-Q	398	ALA	N-CA-C	7.41	118.99	111.07
4	1-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	1-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	2-X	468	LYS	CA-C-N	-7.40	109.06	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	3-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	3-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	4-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	4-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	5-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	5-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	6-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	6-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	7-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	7-X	468	LYS	C-N-CA	-7.40	109.06	120.31
4	8-X	468	LYS	CA-C-N	-7.40	109.06	120.31
4	8-X	468	LYS	C-N-CA	-7.40	109.06	120.31
2	1-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	2-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	3-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	4-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	5-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	6-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	7-I	233	VAL	N-CA-CB	7.40	123.44	111.23
2	8-I	233	VAL	N-CA-CB	7.40	123.44	111.23
3	1-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	1-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	1-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	2-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	2-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	2-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	3-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	3-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	3-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	4-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	4-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	4-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	5-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	5-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	5-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	6-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	6-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	6-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	7-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	7-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	7-R	433	GLU	C-N-CA	-7.39	110.38	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	8-R	433	GLU	CA-C-N	-7.39	110.38	120.44
4	8-R	433	GLU	C-N-CA	-7.39	110.38	120.44
3	1-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	1-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	1-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	2-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	2-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	2-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	3-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	3-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	3-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	4-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	4-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	4-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	5-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	5-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	5-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	6-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	6-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	6-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	7-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	7-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	7-Y	380	ILE	N-CA-C	7.39	119.12	109.58
3	8-P	1484	ASP	N-CA-C	-7.39	103.22	111.28
4	8-X	407	GLU	N-CA-C	7.39	119.34	111.28
5	8-Y	380	ILE	N-CA-C	7.39	119.12	109.58
4	1-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	1-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	1-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	1-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	2-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	2-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	2-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	2-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	3-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	3-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	3-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	3-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	4-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	4-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	4-R	306	PRO	CA-C-N	7.39	130.91	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	5-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	5-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	5-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	5-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	6-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	6-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	6-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	6-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	7-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	7-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	7-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	7-R	306	PRO	C-N-CA	7.39	130.91	120.42
4	8-L	306	PRO	CA-C-N	7.39	130.92	120.42
4	8-L	306	PRO	C-N-CA	7.39	130.92	120.42
4	8-R	306	PRO	CA-C-N	7.39	130.91	120.42
4	8-R	306	PRO	C-N-CA	7.39	130.91	120.42
3	1-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	2-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	3-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	4-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	5-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	6-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	7-D	1509	GLN	O-C-N	7.39	130.57	122.15
3	8-D	1509	GLN	O-C-N	7.39	130.57	122.15
2	1-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	2-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	3-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	4-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	5-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	6-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	7-O	233	VAL	N-CA-CB	7.39	123.42	111.23
2	8-O	233	VAL	N-CA-CB	7.39	123.42	111.23
4	1-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	1-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	1-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	2-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	2-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	2-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	3-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	3-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	3-S	380	ILE	N-CA-C	7.39	119.11	109.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	4-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	4-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	5-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	5-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	5-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	6-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	6-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	6-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	7-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	7-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	7-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	8-F	468	LYS	CA-C-N	-7.39	109.08	120.31
4	8-F	468	LYS	C-N-CA	-7.39	109.08	120.31
5	8-S	380	ILE	N-CA-C	7.39	119.11	109.58
4	1-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	1-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	1-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	1-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	2-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	2-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	2-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	2-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	3-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	3-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	3-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	3-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	4-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	4-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	4-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	4-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	5-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	5-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	5-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	5-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	6-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	6-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	6-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	6-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	7-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	7-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	7-L	433	GLU	CA-C-N	-7.38	110.40	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	8-F	433	GLU	CA-C-N	-7.38	110.40	120.44
4	8-F	433	GLU	C-N-CA	-7.38	110.40	120.44
4	8-L	433	GLU	CA-C-N	-7.38	110.40	120.44
4	8-L	433	GLU	C-N-CA	-7.38	110.40	120.44
4	1-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	2-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	3-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	4-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	5-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	6-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	7-R	407	GLU	N-CA-C	7.38	119.33	111.28
4	8-R	407	GLU	N-CA-C	7.38	119.33	111.28
6	1-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	1-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	1-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	2-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	2-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	2-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	3-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	3-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	3-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	4-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	4-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	4-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	5-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	5-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	5-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	6-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	6-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	6-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	7-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	7-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	7-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
6	8-N	412	GLU	N-CA-CB	7.38	121.66	110.14
1	8-W	1233	VAL	CA-C-N	-7.38	112.72	123.05
1	8-W	1233	VAL	C-N-CA	-7.38	112.72	123.05
3	1-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
3	2-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
3	3-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
3	4-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
3	5-J	1484	ASP	N-CA-C	-7.38	103.24	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
3	7-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
3	8-J	1484	ASP	N-CA-C	-7.38	103.24	111.28
2	1-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	2-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	3-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	4-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	5-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	6-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	7-C	233	VAL	N-CA-CB	7.38	123.41	111.23
2	8-C	233	VAL	N-CA-CB	7.38	123.41	111.23
4	1-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	1-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	2-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	2-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	3-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	3-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	4-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	4-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	5-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	5-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	6-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	6-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	7-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	7-X	306	PRO	C-N-CA	7.38	130.90	120.42
4	8-X	306	PRO	CA-C-N	7.38	130.90	120.42
4	8-X	306	PRO	C-N-CA	7.38	130.90	120.42
6	1-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	1-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	2-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	2-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	3-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	3-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	4-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	4-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	5-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	5-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	6-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	6-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	7-H	412	GLU	N-CA-CB	7.38	121.65	110.14
3	7-V	1509	GLN	O-C-N	7.38	130.56	122.15
6	8-H	412	GLU	N-CA-CB	7.38	121.65	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1509	GLN	O-C-N	7.38	130.56	122.15
1	1-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	1-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	1-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	1-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	2-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	2-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	2-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	2-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	3-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	3-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	3-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	3-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	4-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	4-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	4-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	4-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	5-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	5-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	5-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	5-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	6-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	6-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	6-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	6-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	7-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	7-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	7-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	7-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
1	8-Q	1233	VAL	CA-C-N	-7.37	112.73	123.05
1	8-Q	1233	VAL	C-N-CA	-7.37	112.73	123.05
5	8-S	254	ASP	N-CA-C	7.37	118.96	111.07
6	8-Z	412	GLU	N-CA-CB	7.37	121.64	110.14
4	1-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	1-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	2-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	2-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	3-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	3-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	4-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	4-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	5-F	306	PRO	CA-C-N	7.37	130.89	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	6-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	6-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	7-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	7-F	306	PRO	C-N-CA	7.37	130.89	120.42
4	8-F	306	PRO	CA-C-N	7.37	130.89	120.42
4	8-F	306	PRO	C-N-CA	7.37	130.89	120.42
1	1-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	1-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	1-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	2-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	2-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	2-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	3-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	3-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	3-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	4-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	4-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	4-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	5-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	5-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	5-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	6-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	6-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	6-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	7-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	7-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	7-M	254	ASP	N-CA-C	7.37	118.95	111.07
1	8-E	1233	VAL	CA-C-N	-7.37	112.74	123.05
1	8-E	1233	VAL	C-N-CA	-7.37	112.74	123.05
5	8-M	254	ASP	N-CA-C	7.37	118.95	111.07
5	1-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	2-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	3-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	4-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	5-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	6-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	7-Y	254	ASP	N-CA-C	7.36	118.95	111.07
5	8-Y	254	ASP	N-CA-C	7.36	118.95	111.07
3	1-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	1-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	2-V	1544	PRO	CA-C-N	-7.36	112.61	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	3-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	3-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	4-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	4-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	5-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	5-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	6-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	6-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	7-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	7-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	8-V	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	8-V	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	1-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	1-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	1-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	2-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	2-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	2-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	3-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	3-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	3-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	4-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	4-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	4-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	5-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	5-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	5-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	6-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	6-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	6-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	7-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	7-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	7-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	8-D	1490	GLU	CA-C-O	7.36	131.03	120.51
3	8-J	1544	PRO	CA-C-N	-7.36	112.61	119.82
3	8-J	1544	PRO	C-N-CA	-7.36	112.61	119.82
3	1-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	2-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	3-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	4-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	5-J	1509	GLN	O-C-N	7.35	130.53	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	7-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	8-J	1509	GLN	O-C-N	7.35	130.53	122.15
3	1-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	1-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	2-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	2-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	3-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	3-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	4-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	4-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	5-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	5-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	6-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	6-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	7-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	7-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
3	8-P	1544	PRO	CA-C-N	-7.35	112.61	119.82
3	8-P	1544	PRO	C-N-CA	-7.35	112.61	119.82
6	1-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	1-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	2-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	2-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	3-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	3-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	4-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	4-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	5-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	5-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	6-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	6-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	7-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	7-H	406	LEU	C-N-CA	-7.35	108.44	120.72
6	8-H	406	LEU	CA-C-N	-7.35	108.44	120.72
6	8-H	406	LEU	C-N-CA	-7.35	108.44	120.72
3	1-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	1-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	1-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	1-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	1-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	1-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	2-D	1544	PRO	CA-C-N	-7.35	112.62	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	2-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	2-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	2-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	2-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	3-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	3-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	3-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	3-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	3-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	3-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	4-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	4-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	4-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	4-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	4-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	4-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	5-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	5-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	5-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	5-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	5-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	5-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	6-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	6-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	6-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	6-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	6-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	6-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	7-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	7-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	7-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	7-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	7-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	7-P	1490	GLU	CA-C-O	7.35	131.02	120.51
3	8-D	1544	PRO	CA-C-N	-7.35	112.62	119.82
3	8-D	1544	PRO	C-N-CA	-7.35	112.62	119.82
4	8-L	407	GLU	N-CA-C	7.35	119.29	111.28
6	8-N	406	LEU	CA-C-N	-7.35	108.45	120.72
6	8-N	406	LEU	C-N-CA	-7.35	108.45	120.72
3	8-P	1490	GLU	CA-C-O	7.35	131.02	120.51
1	1-K	1233	VAL	CA-C-N	-7.34	112.77	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	2-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	2-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	3-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	3-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	4-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	4-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	5-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	5-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	6-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	6-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	7-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	7-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
1	8-K	1233	VAL	CA-C-N	-7.34	112.77	123.05
1	8-K	1233	VAL	C-N-CA	-7.34	112.77	123.05
4	1-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	1-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	2-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	2-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	3-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	3-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	4-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	4-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	5-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	5-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	6-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	6-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	7-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	7-F	453	TYR	C-N-CA	-7.34	107.52	121.54
4	8-F	453	TYR	CA-C-N	-7.34	107.52	121.54
4	8-F	453	TYR	C-N-CA	-7.34	107.52	121.54
3	1-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	2-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	3-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	4-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	5-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	6-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	7-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	8-V	1490	GLU	CA-C-O	7.34	131.00	120.51
3	1-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	1-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	2-J	1478	MET	CA-C-N	-7.33	110.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	3-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	3-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	4-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	4-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	5-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	5-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	6-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	6-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	7-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	7-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	8-J	1478	MET	CA-C-N	-7.33	110.45	120.28
3	8-J	1478	MET	C-N-CA	-7.33	110.45	120.28
3	1-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	1-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	1-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	2-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	2-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	2-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	3-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	3-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	3-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	4-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	4-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	4-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	5-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	5-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	5-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	6-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	6-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	6-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	7-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	7-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	7-V	1478	MET	C-N-CA	-7.33	110.45	120.28
3	8-J	1490	GLU	CA-C-O	7.33	131.00	120.51
3	8-V	1478	MET	CA-C-N	-7.33	110.45	120.28
3	8-V	1478	MET	C-N-CA	-7.33	110.45	120.28
2	1-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	1-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	2-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	2-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	3-O	4	GLU	CA-C-N	-7.33	107.04	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	4-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	4-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	5-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	5-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	6-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	6-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	7-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	7-O	4	GLU	C-N-CA	-7.33	107.04	121.41
2	8-O	4	GLU	CA-C-N	-7.33	107.04	121.41
2	8-O	4	GLU	C-N-CA	-7.33	107.04	121.41
3	1-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	2-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	3-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	4-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	5-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	6-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	7-P	1509	GLN	O-C-N	7.33	130.51	122.15
3	8-P	1509	GLN	O-C-N	7.33	130.51	122.15
4	1-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	1-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	2-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	2-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	3-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	3-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	4-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	4-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	5-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	5-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	6-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	6-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	7-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	7-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	8-R	453	TYR	CA-C-N	-7.33	107.55	121.54
4	8-R	453	TYR	C-N-CA	-7.33	107.55	121.54
4	1-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	1-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	1-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	1-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	2-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	2-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	2-Z	406	LEU	CA-C-N	-7.33	108.49	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	3-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	3-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	3-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	3-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	4-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	4-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	4-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	4-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	5-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	5-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	5-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	5-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	6-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	6-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	6-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	6-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	7-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	7-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	7-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	7-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
4	8-L	453	TYR	CA-C-N	-7.33	107.55	121.54
4	8-L	453	TYR	C-N-CA	-7.33	107.55	121.54
6	8-Z	406	LEU	CA-C-N	-7.33	108.49	120.72
6	8-Z	406	LEU	C-N-CA	-7.33	108.49	120.72
6	1-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	1-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	2-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	2-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	3-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	3-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	4-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	4-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	5-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	5-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	6-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	6-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	7-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	7-T	406	LEU	C-N-CA	-7.32	108.49	120.72
6	8-T	406	LEU	CA-C-N	-7.32	108.49	120.72
6	8-T	406	LEU	C-N-CA	-7.32	108.49	120.72
3	1-D	1478	MET	CA-C-N	-7.32	110.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	1-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	1-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	1-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	1-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	1-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	2-D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	2-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	2-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	2-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	2-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	2-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	2-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	3-D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	3-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	3-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	3-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	3-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	3-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	3-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	4-D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	4-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	4-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	4-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	4-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	4-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	4-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	5-D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	5-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	5-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	5-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	5-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	5-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	5-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	6-D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	6-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	6-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	6-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	6-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	6-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	6-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	7-D	1478	MET	CA-C-N	-7.32	110.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	7-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	7-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	7-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	7-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	7-X	453	TYR	C-N-CA	-7.32	107.56	121.54
3	8-D	1478	MET	CA-C-N	-7.32	110.47	120.28
3	8-D	1478	MET	C-N-CA	-7.32	110.47	120.28
4	8-L	341	ASP	CB-CA-C	7.32	124.72	110.67
3	8-P	1478	MET	CA-C-N	-7.32	110.47	120.28
3	8-P	1478	MET	C-N-CA	-7.32	110.47	120.28
4	8-X	453	TYR	CA-C-N	-7.32	107.56	121.54
4	8-X	453	TYR	C-N-CA	-7.32	107.56	121.54
5	1-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	2-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	3-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	4-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	5-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	6-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	7-S	390	GLN	N-CA-C	-7.32	103.33	111.82
5	8-S	390	GLN	N-CA-C	-7.32	103.33	111.82
2	1-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	1-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	1-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	2-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	2-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	2-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	3-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	3-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	3-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	4-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	4-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	4-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	5-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	5-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	5-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	6-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	6-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	6-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	7-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	7-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	7-F	341	ASP	CB-CA-C	7.32	124.72	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-C	4	GLU	CA-C-N	-7.32	107.07	121.41
2	8-C	4	GLU	C-N-CA	-7.32	107.07	121.41
4	8-F	341	ASP	CB-CA-C	7.32	124.72	110.67
2	1-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	1-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	1-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	1-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	2-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	2-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	2-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	2-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	3-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	3-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	3-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	3-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	4-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	4-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	4-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	4-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	5-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	5-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	5-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	5-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	6-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	6-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	6-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	6-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	7-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	7-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	7-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	7-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	8-I	4	GLU	CA-C-N	-7.31	107.08	121.41
2	8-I	4	GLU	C-N-CA	-7.31	107.08	121.41
4	8-L	398	LYS	CB-CA-C	-7.31	96.22	110.11
6	8-N	384	LEU	CB-CA-C	-7.31	98.65	110.79
4	1-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
4	2-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
4	3-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
4	4-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
4	5-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
4	6-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
4	7-F	398	LYS	CB-CA-C	-7.31	96.23	110.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	398	LYS	CB-CA-C	-7.31	96.23	110.11
2	1-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	1-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	2-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	2-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	3-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	3-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	4-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	4-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	5-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	5-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	6-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	6-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	7-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	7-U	4	GLU	C-N-CA	-7.30	107.09	121.41
2	8-U	4	GLU	CA-C-N	-7.30	107.09	121.41
2	8-U	4	GLU	C-N-CA	-7.30	107.09	121.41
4	1-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	1-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	2-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	2-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	3-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	3-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	4-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	4-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	5-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	5-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	6-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	6-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	7-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	7-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
4	8-R	341	ASP	CB-CA-C	7.30	124.69	110.67
6	8-Z	384	LEU	CB-CA-C	-7.30	98.67	110.79
5	1-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	2-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	3-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	4-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	5-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	6-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	7-Y	253	GLN	O-C-N	7.30	131.72	122.23
5	8-Y	253	GLN	O-C-N	7.30	131.72	122.23
6	1-H	384	LEU	CB-CA-C	-7.30	98.68	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
6	3-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
6	4-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
6	5-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
6	6-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
6	7-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
6	8-H	384	LEU	CB-CA-C	-7.30	98.68	110.79
4	1-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	2-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	3-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	4-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	5-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	6-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	7-X	341	ASP	CB-CA-C	7.29	124.68	110.67
4	8-X	341	ASP	CB-CA-C	7.29	124.68	110.67
1	1-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	1-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	1-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	2-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	2-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	2-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	3-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	3-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	3-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	4-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	4-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	4-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	5-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	5-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	5-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	6-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	6-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	6-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	7-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	7-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	7-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	8-A	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	8-T	349	ARG	CB-CA-C	-7.29	97.14	110.63
4	8-X	398	LYS	CB-CA-C	-7.29	96.25	110.11
1	1-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	1-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	2-E	120	ASP	CB-CA-C	-7.29	108.17	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	3-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	3-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	4-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	4-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	5-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	5-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	6-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	6-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	7-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	7-N	490	GLN	CA-C-O	7.29	127.78	119.18
1	8-E	120	ASP	CB-CA-C	-7.29	108.17	116.63
6	8-N	490	GLN	CA-C-O	7.29	127.78	119.18
2	1-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	1-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	2-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	2-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	3-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	3-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	4-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	4-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	5-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	5-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	6-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	6-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	7-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	7-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
2	8-I	704	SER	N-CA-C	-7.29	104.34	113.23
4	8-R	398	LYS	CB-CA-C	-7.29	96.26	110.11
5	1-G	253	GLN	O-C-N	7.29	131.70	122.23
5	1-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	1-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	1-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	2-G	253	GLN	O-C-N	7.29	131.70	122.23
5	2-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	2-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	2-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	3-G	253	GLN	O-C-N	7.29	131.70	122.23
5	3-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	3-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	3-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	4-G	253	GLN	O-C-N	7.29	131.70	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	4-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	4-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	5-G	253	GLN	O-C-N	7.29	131.70	122.23
5	5-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	5-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	5-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	6-G	253	GLN	O-C-N	7.29	131.70	122.23
5	6-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	6-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	6-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	7-G	253	GLN	O-C-N	7.29	131.70	122.23
5	7-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	7-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	7-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
5	8-G	253	GLN	O-C-N	7.29	131.70	122.23
5	8-G	390	GLN	N-CA-C	-7.29	103.37	111.82
5	8-M	390	GLN	N-CA-C	-7.29	103.37	111.82
6	8-Z	349	ARG	CB-CA-C	-7.29	97.15	110.63
1	1-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	1-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	1-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	1-S	253	GLN	O-C-N	7.28	131.70	122.23
6	1-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	2-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	2-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	2-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	2-S	253	GLN	O-C-N	7.28	131.70	122.23
6	2-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	3-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	3-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	3-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	3-S	253	GLN	O-C-N	7.28	131.70	122.23
6	3-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	4-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	4-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	4-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	4-S	253	GLN	O-C-N	7.28	131.70	122.23
6	4-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	5-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	5-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	5-G	344	ASP	CB-CA-C	7.28	124.91	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-S	253	GLN	O-C-N	7.28	131.70	122.23
6	5-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	6-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	6-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	6-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	6-S	253	GLN	O-C-N	7.28	131.70	122.23
6	6-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	7-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	7-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	7-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	7-S	253	GLN	O-C-N	7.28	131.70	122.23
6	7-T	490	GLN	CA-C-O	7.28	127.77	119.18
1	8-E	828	ILE	CA-C-N	7.28	131.53	120.82
1	8-E	828	ILE	C-N-CA	7.28	131.53	120.82
5	8-G	344	ASP	CB-CA-C	7.28	124.91	110.42
5	8-S	253	GLN	O-C-N	7.28	131.70	122.23
6	8-T	490	GLN	CA-C-O	7.28	127.77	119.18
6	1-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	1-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	2-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	2-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	3-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	3-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	4-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	4-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	5-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	5-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	6-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	6-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	7-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	7-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
6	8-N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	8-W	120	ASP	CB-CA-C	-7.28	108.18	116.63
5	1-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	1-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	2-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	2-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	3-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	3-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	4-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	4-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	5-S	344	ASP	CB-CA-C	7.28	124.91	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	6-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	6-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	7-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	7-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
5	8-S	344	ASP	CB-CA-C	7.28	124.91	110.42
5	8-Y	390	GLN	N-CA-C	-7.28	103.38	111.82
6	1-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	1-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	1-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	1-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	1-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	2-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	2-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	2-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	2-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	2-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	3-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	3-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	3-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	3-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	3-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	4-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	4-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	4-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	4-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	4-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	5-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	5-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	5-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	5-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	5-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	6-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	6-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	6-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	6-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	6-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	7-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	7-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	7-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	7-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	7-Q	828	ILE	C-N-CA	7.28	131.52	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	490	GLN	CA-C-O	7.28	127.77	119.18
5	8-M	344	ASP	CB-CA-C	7.28	124.90	110.42
5	8-M	345	TYR	O-C-N	-7.28	113.32	122.27
1	8-Q	828	ILE	CA-C-N	7.28	131.52	120.82
1	8-Q	828	ILE	C-N-CA	7.28	131.52	120.82
6	1-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	2-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	3-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	4-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	5-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	6-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	7-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
6	8-T	384	LEU	CB-CA-C	-7.28	98.71	110.79
5	1-M	253	GLN	O-C-N	7.27	131.69	122.23
5	1-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	2-M	253	GLN	O-C-N	7.27	131.69	122.23
5	2-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	3-M	253	GLN	O-C-N	7.27	131.69	122.23
5	3-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	4-M	253	GLN	O-C-N	7.27	131.69	122.23
5	4-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	5-M	253	GLN	O-C-N	7.27	131.69	122.23
5	5-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	6-M	253	GLN	O-C-N	7.27	131.69	122.23
5	6-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	7-M	253	GLN	O-C-N	7.27	131.69	122.23
5	7-S	345	TYR	O-C-N	-7.27	113.32	122.27
5	8-M	253	GLN	O-C-N	7.27	131.69	122.23
5	8-S	345	TYR	O-C-N	-7.27	113.32	122.27
1	1-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	1-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	1-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	2-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	2-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	2-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	3-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	3-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	3-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	4-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	4-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	4-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	5-K	120	ASP	CB-CA-C	-7.27	108.19	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	5-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	6-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	6-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	6-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	7-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	7-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	7-Z	490	GLN	CA-C-O	7.27	127.76	119.18
1	8-K	120	ASP	CB-CA-C	-7.27	108.19	116.63
5	8-Y	344	ASP	CB-CA-C	7.27	124.89	110.42
6	8-Z	490	GLN	CA-C-O	7.27	127.76	119.18
2	1-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	1-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	1-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	1-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	2-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	2-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	2-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	2-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	3-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	3-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	3-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	3-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	4-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	4-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	4-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	4-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	5-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	5-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	5-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	5-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	6-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	6-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	6-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	6-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	7-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	7-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	7-K	828	ILE	CA-C-N	7.27	131.50	120.82
1	7-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	8-C	484	ARG	N-CA-CB	-7.27	98.14	110.50
6	8-H	349	ARG	CB-CA-C	-7.27	97.19	110.63
1	8-K	828	ILE	CA-C-N	7.27	131.50	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-K	828	ILE	C-N-CA	7.27	131.50	120.82
2	1-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	2-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	3-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	4-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	5-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	6-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	7-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	8-O	807	THR	N-CA-C	-7.27	102.84	112.72
2	1-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	2-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	3-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	4-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	5-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	6-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	7-C	704	SER	N-CA-C	-7.26	104.37	113.23
2	8-C	704	SER	N-CA-C	-7.26	104.37	113.23
1	1-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	1-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	2-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	2-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	3-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	3-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	4-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	4-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	5-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	5-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	6-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	6-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	7-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	7-A	828	ILE	C-N-CA	7.26	131.50	120.82
1	8-A	828	ILE	CA-C-N	7.26	131.50	120.82
1	8-A	828	ILE	C-N-CA	7.26	131.50	120.82
4	1-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	1-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	1-T	476	LYS	N-CA-C	7.26	118.84	111.07
4	2-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	2-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	2-T	476	LYS	N-CA-C	7.26	118.84	111.07
4	3-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	3-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	3-T	476	LYS	N-CA-C	7.26	118.84	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	4-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	4-T	476	LYS	N-CA-C	7.26	118.84	111.07
4	5-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	5-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	5-T	476	LYS	N-CA-C	7.26	118.84	111.07
4	6-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	6-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	6-T	476	LYS	N-CA-C	7.26	118.84	111.07
4	7-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	7-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	7-T	476	LYS	N-CA-C	7.26	118.84	111.07
4	8-L	391	ILE	O-C-N	-7.26	114.83	121.87
2	8-O	484	ARG	N-CA-CB	-7.26	98.16	110.50
6	8-T	476	LYS	N-CA-C	7.26	118.84	111.07
2	1-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	1-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	1-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	1-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	2-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	2-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	2-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	2-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	3-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	3-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	3-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	3-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	4-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	4-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	4-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	4-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	5-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	5-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	5-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	5-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	6-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	6-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	6-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	6-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	7-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	7-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	7-U	484	ARG	N-CA-CB	-7.26	98.16	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	345	TYR	O-C-N	-7.26	113.34	122.27
2	8-I	484	ARG	N-CA-CB	-7.26	98.16	110.50
1	8-Q	120	ASP	CB-CA-C	-7.26	108.21	116.63
2	8-U	484	ARG	N-CA-CB	-7.26	98.16	110.50
5	8-Y	345	TYR	O-C-N	-7.26	113.34	122.27
5	1-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	1-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	1-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	2-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	2-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	2-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	3-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	3-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	3-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	4-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	4-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	4-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	5-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	5-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	5-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	6-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	6-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	6-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	7-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	7-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	7-N	497	ARG	C-N-CA	7.26	130.73	120.28
5	8-G	345	TYR	O-C-N	-7.26	113.34	122.27
6	8-N	497	ARG	CA-C-N	7.26	130.73	120.28
6	8-N	497	ARG	C-N-CA	7.26	130.73	120.28
1	1-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	2-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	3-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	4-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	5-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	6-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	7-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	8-B	120	ASP	CB-CA-C	-7.26	108.21	116.63
1	1-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	1-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	1-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	2-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	2-B	828	ILE	C-N-CA	7.25	131.48	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	3-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	3-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	3-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	4-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	4-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	4-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	5-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	5-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	5-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	6-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	6-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	6-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	7-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	7-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	7-G	302	GLN	N-CA-CB	7.25	120.59	110.07
1	8-B	828	ILE	CA-C-N	7.25	131.48	120.82
1	8-B	828	ILE	C-N-CA	7.25	131.48	120.82
5	8-G	302	GLN	N-CA-CB	7.25	120.59	110.07
2	1-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	1-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	1-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	2-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	2-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	2-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	3-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	3-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	3-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	4-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	4-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	4-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	5-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	5-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	5-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	6-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	6-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	6-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	7-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	7-W	828	ILE	CA-C-N	7.25	131.48	120.82
1	7-W	828	ILE	C-N-CA	7.25	131.48	120.82
2	8-O	704	SER	N-CA-C	-7.25	104.38	113.23
1	8-W	828	ILE	CA-C-N	7.25	131.48	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-W	828	ILE	C-N-CA	7.25	131.48	120.82
4	1-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	1-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	1-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	1-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	1-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	2-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	2-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	2-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	2-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	2-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	3-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	3-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	3-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	3-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	3-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	4-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	4-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	4-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	4-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	4-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	5-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	5-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	5-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	5-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	5-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	6-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	6-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	6-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	6-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	6-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	7-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	7-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	7-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	7-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	7-G	368	GLU	C-N-CA	-7.25	109.29	120.31
4	8-F	391	ILE	O-C-N	-7.25	114.84	121.87
5	8-G	322	ALA	CA-C-N	7.25	131.33	120.31
5	8-G	322	ALA	C-N-CA	7.25	131.33	120.31
5	8-G	368	GLU	CA-C-N	-7.25	109.29	120.31
5	8-G	368	GLU	C-N-CA	-7.25	109.29	120.31
6	1-Z	476	LYS	N-CA-C	7.25	118.82	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	476	LYS	N-CA-C	7.25	118.82	111.07
6	3-Z	476	LYS	N-CA-C	7.25	118.82	111.07
6	4-Z	476	LYS	N-CA-C	7.25	118.82	111.07
6	5-Z	476	LYS	N-CA-C	7.25	118.82	111.07
6	6-Z	476	LYS	N-CA-C	7.25	118.82	111.07
6	7-Z	476	LYS	N-CA-C	7.25	118.82	111.07
6	8-Z	476	LYS	N-CA-C	7.25	118.82	111.07
5	1-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	2-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	3-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	4-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	5-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	6-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	7-M	302	GLN	N-CA-CB	7.24	120.57	110.07
5	8-M	302	GLN	N-CA-CB	7.24	120.57	110.07
6	1-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	1-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	1-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	1-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	2-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	2-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	2-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	2-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	3-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	3-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	3-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	3-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	4-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	4-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	4-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	4-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	5-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	5-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	5-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	5-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	6-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	6-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	6-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	6-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	7-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	7-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	7-L	429	GLY	CA-C-N	-7.24	110.59	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	429	GLY	C-N-CA	-7.24	110.59	120.44
6	8-H	497	ARG	CA-C-N	7.24	130.71	120.28
6	8-H	497	ARG	C-N-CA	7.24	130.71	120.28
4	8-L	429	GLY	CA-C-N	-7.24	110.59	120.44
4	8-L	429	GLY	C-N-CA	-7.24	110.59	120.44
5	1-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	1-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	2-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	2-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	3-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	3-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	4-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	4-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	5-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	5-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	6-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	6-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	7-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	7-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
5	8-Y	368	GLU	CA-C-N	-7.24	109.30	120.31
5	8-Y	368	GLU	C-N-CA	-7.24	109.30	120.31
6	1-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	1-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	2-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	2-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	3-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	3-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	4-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	4-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	5-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	5-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	6-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	6-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	7-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	7-U	704	SER	N-CA-C	-7.24	104.40	113.23
6	8-N	476	LYS	N-CA-C	7.24	118.81	111.07
2	8-U	704	SER	N-CA-C	-7.24	104.40	113.23
5	1-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	1-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	1-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	2-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	2-S	322	ALA	C-N-CA	7.24	131.31	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	3-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	3-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	3-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	4-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	4-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	4-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	5-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	5-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	5-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	6-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	6-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	6-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	7-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	7-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	7-U	807	THR	N-CA-C	-7.24	102.88	112.72
5	8-S	322	ALA	CA-C-N	7.24	131.31	120.31
5	8-S	322	ALA	C-N-CA	7.24	131.31	120.31
2	8-U	807	THR	N-CA-C	-7.24	102.88	112.72
2	1-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	2-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	3-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	4-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	5-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	6-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	7-C	807	THR	N-CA-C	-7.23	102.88	112.72
2	8-C	807	THR	N-CA-C	-7.23	102.88	112.72
3	1-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	1-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	2-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	2-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	3-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	3-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	4-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	4-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	5-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	5-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	6-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	6-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	7-D	1510	GLN	CA-C-O	7.23	129.34	120.31
2	7-I	807	THR	N-CA-C	-7.23	102.89	112.72
3	8-D	1510	GLN	CA-C-O	7.23	129.34	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-I	807	THR	N-CA-C	-7.23	102.89	112.72
6	1-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	1-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	1-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	2-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	2-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	2-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	3-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	3-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	3-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	4-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	4-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	4-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	5-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	5-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	5-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	6-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	6-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	6-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	7-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	7-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	7-T	497	ARG	C-N-CA	7.23	130.69	120.28
6	8-H	476	LYS	N-CA-C	7.23	118.80	111.07
6	8-T	497	ARG	CA-C-N	7.23	130.69	120.28
6	8-T	497	ARG	C-N-CA	7.23	130.69	120.28
4	1-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	1-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	2-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	2-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	3-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	3-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	4-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	4-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	5-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	5-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	6-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	6-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	7-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	7-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
4	8-R	391	ILE	O-C-N	-7.22	114.86	121.87
5	8-Y	302	GLN	N-CA-CB	7.22	120.55	110.07
5	1-M	322	ALA	CA-C-N	7.22	131.29	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	1-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	1-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	2-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	2-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	2-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	2-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	3-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	3-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	3-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	3-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	4-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	4-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	4-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	4-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	5-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	5-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	5-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	5-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	6-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	6-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	6-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	6-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	7-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	7-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	7-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	7-Y	322	ALA	C-N-CA	7.22	131.29	120.31
5	8-M	322	ALA	CA-C-N	7.22	131.29	120.31
5	8-M	322	ALA	C-N-CA	7.22	131.29	120.31
5	8-Y	322	ALA	CA-C-N	7.22	131.29	120.31
5	8-Y	322	ALA	C-N-CA	7.22	131.29	120.31
4	1-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	1-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	1-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	2-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	2-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	2-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	3-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	3-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	3-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	4-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	4-F	429	GLY	C-N-CA	-7.22	110.62	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	5-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	5-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	5-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	6-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	6-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	6-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	7-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	7-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	7-U	8	GLU	N-CA-CB	7.22	120.96	110.20
4	8-F	429	GLY	CA-C-N	-7.22	110.62	120.44
4	8-F	429	GLY	C-N-CA	-7.22	110.62	120.44
2	8-U	8	GLU	N-CA-CB	7.22	120.96	110.20
2	1-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	1-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	1-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	2-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	2-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	2-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	3-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	3-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	3-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	4-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	4-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	4-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	5-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	5-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	5-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	6-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	6-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	6-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	7-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	7-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	7-S	368	GLU	C-N-CA	-7.22	109.34	120.31
2	8-I	8	GLU	N-CA-CB	7.22	120.95	110.20
5	8-S	368	GLU	CA-C-N	-7.22	109.34	120.31
5	8-S	368	GLU	C-N-CA	-7.22	109.34	120.31
5	1-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	1-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	1-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	2-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	2-Z	497	ARG	CA-C-N	7.22	130.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	3-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	3-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	3-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	4-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	4-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	4-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	5-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	5-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	5-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	6-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	6-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	6-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	7-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	7-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	7-Z	497	ARG	C-N-CA	7.22	130.67	120.28
5	8-S	374	GLN	N-CA-C	-7.22	103.45	111.82
6	8-Z	497	ARG	CA-C-N	7.22	130.67	120.28
6	8-Z	497	ARG	C-N-CA	7.22	130.67	120.28
4	1-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	1-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	2-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	2-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	3-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	3-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	4-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	4-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	5-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	5-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	6-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	6-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	7-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	7-X	429	GLY	C-N-CA	-7.21	110.63	120.44
4	8-X	429	GLY	CA-C-N	-7.21	110.63	120.44
4	8-X	429	GLY	C-N-CA	-7.21	110.63	120.44
5	1-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	2-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	3-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	4-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	5-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	6-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	7-S	302	GLN	N-CA-CB	7.21	120.53	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-S	302	GLN	N-CA-CB	7.21	120.53	110.07
5	1-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	1-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	1-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	2-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	2-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	2-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	3-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	3-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	3-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	4-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	4-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	4-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	5-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	5-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	5-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	6-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	6-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	6-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	7-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	7-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	7-O	8	GLU	N-CA-CB	7.21	120.94	110.20
5	8-M	368	GLU	CA-C-N	-7.21	109.35	120.31
5	8-M	368	GLU	C-N-CA	-7.21	109.35	120.31
2	8-O	8	GLU	N-CA-CB	7.21	120.94	110.20
2	1-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	2-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	3-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	4-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	5-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	6-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	7-C	8	GLU	N-CA-CB	7.21	120.94	110.20
2	8-C	8	GLU	N-CA-CB	7.21	120.94	110.20
6	1-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	2-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	3-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	4-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	5-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	6-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	7-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
6	8-N	406	LEU	CB-CA-C	-7.20	97.97	110.72
2	1-C	355	TYR	N-CA-C	-7.20	103.36	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	1-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	2-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	2-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	2-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	3-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	3-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	3-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	4-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	4-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	4-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	5-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	5-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	5-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	6-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	6-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	6-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	7-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	7-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	7-R	429	GLY	C-N-CA	-7.20	110.65	120.44
2	8-C	355	TYR	N-CA-C	-7.20	103.36	111.07
4	8-R	429	GLY	CA-C-N	-7.20	110.65	120.44
4	8-R	429	GLY	C-N-CA	-7.20	110.65	120.44
4	1-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	2-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	3-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	4-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	5-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	6-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	7-X	391	ILE	O-C-N	-7.20	114.89	121.87
4	8-X	391	ILE	O-C-N	-7.20	114.89	121.87
5	1-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	1-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	2-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	2-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	3-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	3-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	4-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	4-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	5-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	5-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	6-S	345	TYR	CA-C-N	7.20	130.22	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	7-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	7-S	345	TYR	C-N-CA	7.20	130.22	120.44
5	8-S	345	TYR	CA-C-N	7.20	130.22	120.44
5	8-S	345	TYR	C-N-CA	7.20	130.22	120.44
3	1-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	1-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	1-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	1-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	2-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	2-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	2-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	2-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	3-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	3-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	3-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	3-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	4-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	4-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	4-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	4-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	5-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	5-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	5-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	5-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	6-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	6-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	6-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	6-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	7-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	7-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	7-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	7-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	8-J	1510	GLN	CA-C-O	7.19	129.30	120.31
6	8-T	406	LEU	CB-CA-C	-7.19	97.99	110.72
3	8-V	1510	GLN	CA-C-O	7.19	129.30	120.31
6	8-Z	406	LEU	CB-CA-C	-7.19	97.99	110.72
6	1-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	1-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	1-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	2-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	2-M	374	GLN	N-CA-C	-7.19	103.48	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	3-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	3-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	3-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	4-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	4-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	4-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	5-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	5-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	5-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	6-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	6-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	6-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	7-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	7-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	7-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
6	8-H	406	LEU	CB-CA-C	-7.19	97.99	110.72
5	8-M	374	GLN	N-CA-C	-7.19	103.48	111.82
3	8-P	1413	GLY	N-CA-C	-7.19	104.10	112.73
5	1-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	2-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	3-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	4-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	5-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	6-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	7-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	8-G	374	GLN	N-CA-C	-7.18	103.49	111.82
5	1-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	1-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	1-U	355	TYR	N-CA-C	-7.17	103.39	111.07
5	2-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	2-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	2-U	355	TYR	N-CA-C	-7.17	103.39	111.07
5	3-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	3-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	3-U	355	TYR	N-CA-C	-7.17	103.39	111.07
5	4-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	4-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	4-U	355	TYR	N-CA-C	-7.17	103.39	111.07
5	5-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	5-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	5-U	355	TYR	N-CA-C	-7.17	103.39	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	6-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	6-U	355	TYR	N-CA-C	-7.17	103.39	111.07
5	7-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	7-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	7-U	355	TYR	N-CA-C	-7.17	103.39	111.07
5	8-G	345	TYR	CA-C-N	7.17	130.20	120.44
5	8-G	345	TYR	C-N-CA	7.17	130.20	120.44
2	8-U	355	TYR	N-CA-C	-7.17	103.39	111.07
6	1-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	1-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	1-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	1-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	2-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	2-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	2-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	2-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	3-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	3-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	3-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	3-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	4-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	4-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	4-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	4-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	5-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	5-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	5-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	5-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	6-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	6-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	6-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	6-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	7-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	7-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	7-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	7-M	345	TYR	C-N-CA	7.17	130.19	120.44
6	8-H	351	PHE	CA-C-N	7.17	130.22	120.54
6	8-H	351	PHE	C-N-CA	7.17	130.22	120.54
5	8-M	345	TYR	CA-C-N	7.17	130.19	120.44
5	8-M	345	TYR	C-N-CA	7.17	130.19	120.44
5	1-Y	374	GLN	N-CA-C	-7.17	103.50	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
5	3-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
5	4-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
5	5-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
5	6-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
5	7-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
5	8-Y	374	GLN	N-CA-C	-7.17	103.50	111.82
3	1-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	1-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	1-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	2-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	2-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	2-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	3-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	3-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	3-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	4-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	4-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	4-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	5-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	5-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	5-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	6-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	6-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	6-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	7-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	7-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	7-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	8-J	1489	HIS	N-CA-CB	-7.17	96.17	110.64
6	8-T	387	LYS	N-CA-C	7.17	119.09	111.28
6	8-Z	387	LYS	N-CA-C	7.17	119.09	111.28
3	1-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	1-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	2-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	2-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	3-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	3-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	4-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	4-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	5-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	5-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	6-P	1510	GLN	CA-C-O	7.16	129.26	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	7-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	7-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	8-P	1510	GLN	CA-C-O	7.16	129.26	120.31
3	8-V	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	1-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	1-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	2-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	2-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	3-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	3-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	4-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	4-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	5-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	5-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	6-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	6-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	7-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	7-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	8-V	1480	VAL	CA-C-N	7.16	129.58	120.56
3	8-V	1480	VAL	C-N-CA	7.16	129.58	120.56
3	1-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	1-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	1-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	2-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	2-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	2-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	3-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	3-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	3-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	4-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	4-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	4-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	5-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	5-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	5-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	6-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	6-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	6-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	7-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	7-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	7-J	1413	GLY	N-CA-C	-7.16	104.14	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1413	GLY	N-CA-C	-7.16	104.14	112.73
3	8-D	1489	HIS	N-CA-CB	-7.16	96.17	110.64
3	8-J	1413	GLY	N-CA-C	-7.16	104.14	112.73
5	1-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	1-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	2-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	2-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	3-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	3-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	4-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	4-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	5-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	5-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	6-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	6-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	7-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	7-Y	345	TYR	C-N-CA	7.16	130.18	120.44
5	8-Y	345	TYR	CA-C-N	7.16	130.18	120.44
5	8-Y	345	TYR	C-N-CA	7.16	130.18	120.44
3	1-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	2-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	3-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	4-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	5-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	6-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	7-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
3	8-P	1489	HIS	N-CA-CB	-7.16	96.19	110.64
2	1-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	1-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	1-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	1-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	1-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	1-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	1-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	1-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	1-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	1-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	2-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	2-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	2-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	2-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	2-T	351	PHE	CA-C-N	7.15	130.19	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	2-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	2-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	2-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	2-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	3-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	3-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	3-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	3-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	3-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	3-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	3-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	3-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	3-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	3-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	4-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	4-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	4-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	4-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	4-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	4-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	4-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	4-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	4-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	4-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	5-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	5-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	5-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	5-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	5-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	5-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	5-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	5-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	5-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	5-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	6-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	6-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	6-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	6-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	6-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	6-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	6-U	365	PRO	N-CA-C	-7.15	104.92	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	6-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	6-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	7-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	7-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	7-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	7-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	7-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	7-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	7-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	7-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	7-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	7-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	8-O	355	TYR	N-CA-C	-7.15	103.42	111.07
1	8-Q	1353	CYS	N-CA-C	-7.15	105.39	112.97
4	8-R	405	ALA	CB-CA-C	-7.15	96.19	110.42
5	8-S	264	GLU	CB-CA-C	7.15	122.66	110.79
6	8-T	351	PHE	CA-C-N	7.15	130.19	120.54
6	8-T	351	PHE	C-N-CA	7.15	130.19	120.54
2	8-U	365	PRO	N-CA-C	-7.15	104.92	113.86
3	8-V	1413	GLY	N-CA-C	-7.15	104.15	112.73
6	8-Z	351	PHE	CA-C-N	7.15	130.20	120.54
6	8-Z	351	PHE	C-N-CA	7.15	130.20	120.54
2	1-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	1-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	1-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	1-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	2-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	2-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	2-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	2-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	3-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	3-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	3-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	3-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	4-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	4-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	4-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	4-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	5-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	5-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	5-I	355	TYR	N-CA-C	-7.15	103.42	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	6-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	6-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	6-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	6-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	7-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	7-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	7-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	7-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
2	8-C	365	PRO	N-CA-C	-7.15	104.92	113.86
6	8-H	387	LYS	N-CA-C	7.15	119.07	111.28
2	8-I	355	TYR	N-CA-C	-7.15	103.42	111.07
5	8-Y	264	GLU	CB-CA-C	7.15	122.66	110.79
6	1-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	2-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	3-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	4-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	5-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	6-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	7-N	387	LYS	N-CA-C	7.15	119.07	111.28
6	8-N	387	LYS	N-CA-C	7.15	119.07	111.28
1	1-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	2-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	3-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	4-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	5-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	6-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	7-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
1	8-K	1353	CYS	N-CA-C	-7.15	105.39	112.97
2	1-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	2-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	3-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	4-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	5-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	6-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	7-I	365	PRO	N-CA-C	-7.15	104.93	113.86
2	8-I	365	PRO	N-CA-C	-7.15	104.93	113.86
3	1-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	1-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	1-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	1-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	2-D	1480	VAL	CA-C-N	7.14	129.56	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	2-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	2-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	3-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	3-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	3-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	3-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	4-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	4-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	4-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	4-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	5-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	5-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	5-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	5-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	6-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	6-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	6-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	6-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	7-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	7-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	7-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	7-P	1480	VAL	C-N-CA	7.14	129.56	120.56
3	8-D	1480	VAL	CA-C-N	7.14	129.56	120.56
3	8-D	1480	VAL	C-N-CA	7.14	129.56	120.56
3	8-P	1480	VAL	CA-C-N	7.14	129.56	120.56
3	8-P	1480	VAL	C-N-CA	7.14	129.56	120.56
4	1-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	2-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	3-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	4-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	5-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	6-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	7-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
4	8-F	405	ALA	CB-CA-C	-7.14	96.22	110.42
3	1-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	1-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	1-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	2-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	2-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	2-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	3-J	1469	ILE	O-C-N	7.13	128.90	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	3-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	4-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	4-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	4-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	5-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	5-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	5-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	6-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	6-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	6-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	7-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	7-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	7-O	365	PRO	N-CA-C	-7.13	104.94	113.86
3	8-J	1469	ILE	O-C-N	7.13	128.90	121.91
5	8-M	264	GLU	CB-CA-C	7.13	122.63	110.79
2	8-O	365	PRO	N-CA-C	-7.13	104.94	113.86
6	1-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	1-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	2-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	2-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	3-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	3-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	4-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	4-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	5-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	5-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	6-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	6-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	7-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	7-N	351	PHE	C-N-CA	7.13	130.16	120.54
6	8-N	351	PHE	CA-C-N	7.13	130.16	120.54
6	8-N	351	PHE	C-N-CA	7.13	130.16	120.54
3	1-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	1-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	1-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	2-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	2-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	2-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	3-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	3-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	3-L	405	ALA	CB-CA-C	-7.12	96.25	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	4-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	4-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	5-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	5-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	5-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	6-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	6-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	6-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	7-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	7-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	7-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	8-J	1480	VAL	CA-C-N	7.12	129.53	120.56
3	8-J	1480	VAL	C-N-CA	7.12	129.53	120.56
4	8-L	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	1-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	1-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	2-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	2-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	3-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	3-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	4-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	4-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	5-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	5-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	6-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	6-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	7-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	7-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
3	8-V	1469	ILE	O-C-N	7.12	128.89	121.91
4	8-X	405	ALA	CB-CA-C	-7.12	96.25	110.42
5	1-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	1-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	2-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	2-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	3-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	3-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	4-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	4-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	5-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	5-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	6-G	264	GLU	CB-CA-C	7.12	122.61	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	7-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	7-P	1469	ILE	O-C-N	7.12	128.89	121.91
5	8-G	264	GLU	CB-CA-C	7.12	122.61	110.79
3	8-P	1469	ILE	O-C-N	7.12	128.89	121.91
1	1-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	2-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	3-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	4-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	5-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	6-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	7-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
1	8-E	1353	CYS	N-CA-C	-7.12	105.43	112.97
6	1-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	2-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	3-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	4-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	5-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	6-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	7-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
6	8-Z	419	GLY	N-CA-C	-7.11	103.84	113.37
3	1-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	1-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	1-G	272	ILE	C-N-CA	7.11	129.81	120.28
3	2-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	2-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	2-G	272	ILE	C-N-CA	7.11	129.81	120.28
3	3-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	3-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	3-G	272	ILE	C-N-CA	7.11	129.81	120.28
3	4-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	4-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	4-G	272	ILE	C-N-CA	7.11	129.81	120.28
3	5-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	5-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	5-G	272	ILE	C-N-CA	7.11	129.81	120.28
3	6-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	6-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	6-G	272	ILE	C-N-CA	7.11	129.81	120.28
3	7-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	7-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	7-G	272	ILE	C-N-CA	7.11	129.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1469	ILE	O-C-N	7.11	128.88	121.91
5	8-G	272	ILE	CA-C-N	7.11	129.81	120.28
5	8-G	272	ILE	C-N-CA	7.11	129.81	120.28
1	1-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	2-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	3-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	4-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	5-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	6-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	7-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
1	8-W	1353	CYS	N-CA-C	-7.11	105.43	112.97
3	1-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	1-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	2-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	2-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	3-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	3-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	4-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	4-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	5-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	5-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	6-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	6-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	7-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	7-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	8-P	1485	ALA	N-CA-C	-7.11	95.67	110.80
6	8-T	485	LEU	CB-CA-C	-7.11	97.48	110.63
3	1-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	1-S	319	LEU	O-C-N	7.10	129.65	122.12
3	2-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	2-S	319	LEU	O-C-N	7.10	129.65	122.12
3	3-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	3-S	319	LEU	O-C-N	7.10	129.65	122.12
3	4-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	4-S	319	LEU	O-C-N	7.10	129.65	122.12
3	5-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	5-S	319	LEU	O-C-N	7.10	129.65	122.12
3	6-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	6-S	319	LEU	O-C-N	7.10	129.65	122.12
3	7-D	1485	ALA	N-CA-C	-7.10	95.67	110.80
5	7-S	319	LEU	O-C-N	7.10	129.65	122.12
3	8-D	1485	ALA	N-CA-C	-7.10	95.67	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-S	319	LEU	O-C-N	7.10	129.65	122.12
4	1-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	1-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	1-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	2-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	2-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	2-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	3-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	3-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	3-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	4-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	4-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	4-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	5-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	5-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	5-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	6-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	6-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	6-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	7-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	7-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	7-T	419	GLY	N-CA-C	-7.10	103.86	113.37
4	8-R	321	LYS	CA-C-N	-7.10	109.28	121.85
4	8-R	321	LYS	C-N-CA	-7.10	109.28	121.85
6	8-T	419	GLY	N-CA-C	-7.10	103.86	113.37
6	1-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	1-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	1-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	2-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	2-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	2-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	3-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	3-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	3-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	4-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	4-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	4-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	5-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	5-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	5-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	6-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	6-L	321	LYS	CA-C-N	-7.10	109.29	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	7-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	7-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	7-L	321	LYS	C-N-CA	-7.10	109.29	121.85
6	8-H	419	GLY	N-CA-C	-7.10	103.86	113.37
4	8-L	321	LYS	CA-C-N	-7.10	109.29	121.85
4	8-L	321	LYS	C-N-CA	-7.10	109.29	121.85
5	1-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	1-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	1-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	1-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	2-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	2-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	2-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	2-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	3-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	3-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	3-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	3-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	4-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	4-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	4-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	4-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	5-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	5-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	5-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	5-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	6-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	6-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	6-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	6-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	7-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	7-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	7-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	7-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
5	8-S	272	ILE	CA-C-N	7.10	129.79	120.28
5	8-S	272	ILE	C-N-CA	7.10	129.79	120.28
3	8-V	1485	ALA	N-CA-C	-7.10	95.69	110.80
6	8-Z	485	LEU	CB-CA-C	-7.10	97.50	110.63
3	1-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	1-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	2-J	1485	ALA	N-CA-C	-7.09	95.69	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	3-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	3-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	4-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	4-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	5-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	5-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	6-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	6-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	7-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	7-P	1546	LEU	CA-C-O	7.09	128.12	120.10
3	8-J	1485	ALA	N-CA-C	-7.09	95.69	110.80
3	8-P	1546	LEU	CA-C-O	7.09	128.12	120.10
6	1-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	2-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	3-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	4-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	5-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	6-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	7-H	408	SER	CB-CA-C	-7.09	96.20	110.17
6	8-H	408	SER	CB-CA-C	-7.09	96.20	110.17
5	1-G	319	LEU	O-C-N	7.09	129.64	122.12
5	1-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	1-Y	272	ILE	C-N-CA	7.09	129.78	120.28
5	2-G	319	LEU	O-C-N	7.09	129.64	122.12
5	2-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	2-Y	272	ILE	C-N-CA	7.09	129.78	120.28
5	3-G	319	LEU	O-C-N	7.09	129.64	122.12
5	3-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	3-Y	272	ILE	C-N-CA	7.09	129.78	120.28
5	4-G	319	LEU	O-C-N	7.09	129.64	122.12
5	4-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	4-Y	272	ILE	C-N-CA	7.09	129.78	120.28
5	5-G	319	LEU	O-C-N	7.09	129.64	122.12
5	5-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	5-Y	272	ILE	C-N-CA	7.09	129.78	120.28
5	6-G	319	LEU	O-C-N	7.09	129.64	122.12
5	6-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	6-Y	272	ILE	C-N-CA	7.09	129.78	120.28
5	7-G	319	LEU	O-C-N	7.09	129.64	122.12
5	7-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	7-Y	272	ILE	C-N-CA	7.09	129.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	319	LEU	O-C-N	7.09	129.64	122.12
5	8-Y	272	ILE	CA-C-N	7.09	129.78	120.28
5	8-Y	272	ILE	C-N-CA	7.09	129.78	120.28
6	1-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	2-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	3-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	4-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	5-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	6-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	7-T	408	SER	CB-CA-C	-7.09	96.21	110.17
6	8-T	408	SER	CB-CA-C	-7.09	96.21	110.17
2	1-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	2-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	3-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	4-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	5-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	6-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	7-C	479	LEU	N-CA-C	-7.08	103.60	111.82
2	8-C	479	LEU	N-CA-C	-7.08	103.60	111.82
6	1-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	1-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	2-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	2-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	3-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	3-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	4-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	4-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	5-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	5-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	6-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	6-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	7-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	7-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	8-N	485	LEU	CB-CA-C	-7.08	97.53	110.63
2	8-O	479	LEU	N-CA-C	-7.08	103.60	111.82
6	1-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	1-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	1-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	1-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	2-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	2-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	2-M	272	ILE	C-N-CA	7.08	129.77	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	3-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	3-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	3-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	3-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	4-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	4-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	4-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	4-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	5-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	5-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	5-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	5-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	6-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	6-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	6-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	6-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	7-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	7-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	7-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	7-N	419	GLY	N-CA-C	-7.08	103.88	113.37
6	8-H	485	LEU	CB-CA-C	-7.08	97.53	110.63
5	8-M	272	ILE	CA-C-N	7.08	129.77	120.28
5	8-M	272	ILE	C-N-CA	7.08	129.77	120.28
6	8-N	419	GLY	N-CA-C	-7.08	103.88	113.37
4	1-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	1-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	2-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	2-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	3-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	3-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	4-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	4-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	5-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	5-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	6-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	6-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	7-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	7-X	321	LYS	C-N-CA	-7.08	109.32	121.85
4	8-X	321	LYS	CA-C-N	-7.08	109.32	121.85
4	8-X	321	LYS	C-N-CA	-7.08	109.32	121.85
2	1-I	8	GLU	CA-C-O	-7.08	112.39	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	3-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	4-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	5-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	6-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	7-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	8-I	8	GLU	CA-C-O	-7.08	112.39	120.24
2	1-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	1-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	2-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	2-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	3-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	3-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	4-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	4-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	5-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	5-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	6-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	6-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	7-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	7-U	479	LEU	N-CA-C	-7.07	103.61	111.82
2	8-O	8	GLU	CA-C-O	-7.07	112.39	120.24
2	8-U	479	LEU	N-CA-C	-7.07	103.61	111.82
3	1-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	1-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	2-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	2-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	3-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	3-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	4-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	4-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	5-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	5-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	6-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	6-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	7-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	7-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
3	8-D	1546	LEU	CA-C-O	7.07	128.09	120.10
6	8-Z	408	SER	CB-CA-C	-7.07	96.25	110.17
6	1-N	408	SER	CB-CA-C	-7.07	96.25	110.17
6	2-N	408	SER	CB-CA-C	-7.07	96.25	110.17
6	3-N	408	SER	CB-CA-C	-7.07	96.25	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	408	SER	CB-CA-C	-7.07	96.25	110.17
6	5-N	408	SER	CB-CA-C	-7.07	96.25	110.17
6	6-N	408	SER	CB-CA-C	-7.07	96.25	110.17
6	7-N	408	SER	CB-CA-C	-7.07	96.25	110.17
6	8-N	408	SER	CB-CA-C	-7.07	96.25	110.17
2	1-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	2-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	3-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	4-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	5-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	6-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	7-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	8-U	8	GLU	CA-C-O	-7.06	112.40	120.24
2	1-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	1-O	10	LEU	O-C-N	7.06	130.96	122.27
5	1-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	1-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	1-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	2-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	2-O	10	LEU	O-C-N	7.06	130.96	122.27
5	2-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	2-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	2-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	3-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	3-O	10	LEU	O-C-N	7.06	130.96	122.27
5	3-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	3-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	3-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	4-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	4-O	10	LEU	O-C-N	7.06	130.96	122.27
5	4-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	4-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	4-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	5-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	5-O	10	LEU	O-C-N	7.06	130.96	122.27
5	5-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	5-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	5-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	6-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	6-O	10	LEU	O-C-N	7.06	130.96	122.27
5	6-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	6-U	8	GLU	CA-C-N	7.06	130.08	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	7-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	7-O	10	LEU	O-C-N	7.06	130.96	122.27
5	7-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	7-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	7-U	8	GLU	C-N-CA	7.06	130.08	120.54
2	8-C	8	GLU	CA-C-O	-7.06	112.40	120.24
2	8-O	10	LEU	O-C-N	7.06	130.96	122.27
5	8-S	341	ALA	N-CA-C	-7.06	94.20	109.81
2	8-U	8	GLU	CA-C-N	7.06	130.08	120.54
2	8-U	8	GLU	C-N-CA	7.06	130.08	120.54
5	1-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	1-M	319	LEU	O-C-N	7.06	129.60	122.12
5	2-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	2-M	319	LEU	O-C-N	7.06	129.60	122.12
5	3-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	3-M	319	LEU	O-C-N	7.06	129.60	122.12
5	4-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	4-M	319	LEU	O-C-N	7.06	129.60	122.12
5	5-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	5-M	319	LEU	O-C-N	7.06	129.60	122.12
5	6-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	6-M	319	LEU	O-C-N	7.06	129.60	122.12
5	7-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	7-M	319	LEU	O-C-N	7.06	129.60	122.12
5	8-G	341	ALA	N-CA-C	-7.06	94.21	109.81
5	8-M	319	LEU	O-C-N	7.06	129.60	122.12
2	1-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	1-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	2-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	2-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	3-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	3-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	4-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	4-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	5-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	5-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	6-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	6-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	7-I	479	LEU	N-CA-C	-7.06	103.63	111.82
5	7-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	8-I	479	LEU	N-CA-C	-7.06	103.63	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-Y	341	ALA	N-CA-C	-7.06	94.21	109.81
2	1-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	1-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	2-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	2-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	3-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	3-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	4-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	4-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	5-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	5-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	6-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	6-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	7-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	7-O	8	GLU	C-N-CA	7.06	130.07	120.54
2	8-O	8	GLU	CA-C-N	7.06	130.07	120.54
2	8-O	8	GLU	C-N-CA	7.06	130.07	120.54
3	1-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	1-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	2-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	2-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	3-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	3-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	4-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	4-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	5-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	5-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	6-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	6-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	7-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	7-Y	319	LEU	O-C-N	7.06	129.60	122.12
3	8-V	1546	LEU	CA-C-O	7.06	128.07	120.10
5	8-Y	319	LEU	O-C-N	7.06	129.60	122.12
2	1-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	1-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	1-J	1546	LEU	CA-C-O	7.05	128.07	120.10
2	2-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	2-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	2-J	1546	LEU	CA-C-O	7.05	128.07	120.10
2	3-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	3-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	3-J	1546	LEU	CA-C-O	7.05	128.07	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	4-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	4-J	1546	LEU	CA-C-O	7.05	128.07	120.10
2	5-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	5-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	5-J	1546	LEU	CA-C-O	7.05	128.07	120.10
2	6-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	6-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	6-J	1546	LEU	CA-C-O	7.05	128.07	120.10
2	7-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	7-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	7-J	1546	LEU	CA-C-O	7.05	128.07	120.10
2	8-I	8	GLU	CA-C-N	7.05	130.06	120.54
2	8-I	8	GLU	C-N-CA	7.05	130.06	120.54
3	8-J	1546	LEU	CA-C-O	7.05	128.07	120.10
4	1-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	1-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	2-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	2-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	3-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	3-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	4-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	4-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	5-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	5-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	6-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	6-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	7-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	7-F	321	LYS	C-N-CA	-7.05	109.37	121.85
4	8-F	321	LYS	CA-C-N	-7.05	109.37	121.85
4	8-F	321	LYS	C-N-CA	-7.05	109.37	121.85
5	1-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	2-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	3-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	4-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	5-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	6-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	7-M	341	ALA	N-CA-C	-7.05	94.23	109.81
5	8-M	341	ALA	N-CA-C	-7.05	94.23	109.81
4	1-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	2-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	3-X	473	GLY	N-CA-C	-7.05	104.27	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	5-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	6-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	7-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	8-X	473	GLY	N-CA-C	-7.05	104.27	112.73
4	1-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	2-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	3-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	4-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	5-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	6-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	7-F	473	GLY	N-CA-C	-7.05	104.28	112.73
4	8-F	473	GLY	N-CA-C	-7.05	104.28	112.73
2	1-C	10	LEU	O-C-N	7.04	130.93	122.27
2	1-U	10	LEU	O-C-N	7.04	130.93	122.27
2	2-C	10	LEU	O-C-N	7.04	130.93	122.27
2	2-U	10	LEU	O-C-N	7.04	130.93	122.27
2	3-C	10	LEU	O-C-N	7.04	130.93	122.27
2	3-U	10	LEU	O-C-N	7.04	130.93	122.27
2	4-C	10	LEU	O-C-N	7.04	130.93	122.27
2	4-U	10	LEU	O-C-N	7.04	130.93	122.27
2	5-C	10	LEU	O-C-N	7.04	130.93	122.27
2	5-U	10	LEU	O-C-N	7.04	130.93	122.27
2	6-C	10	LEU	O-C-N	7.04	130.93	122.27
2	6-U	10	LEU	O-C-N	7.04	130.93	122.27
2	7-C	10	LEU	O-C-N	7.04	130.93	122.27
2	7-U	10	LEU	O-C-N	7.04	130.93	122.27
2	8-C	10	LEU	O-C-N	7.04	130.93	122.27
2	8-U	10	LEU	O-C-N	7.04	130.93	122.27
4	1-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	2-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	3-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	4-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	5-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	6-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	7-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	8-R	473	GLY	N-CA-C	-7.04	104.28	112.73
4	1-L	473	GLY	N-CA-C	-7.03	104.29	112.73
4	2-L	473	GLY	N-CA-C	-7.03	104.29	112.73
4	3-L	473	GLY	N-CA-C	-7.03	104.29	112.73
4	4-L	473	GLY	N-CA-C	-7.03	104.29	112.73
4	5-L	473	GLY	N-CA-C	-7.03	104.29	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	473	GLY	N-CA-C	-7.03	104.29	112.73
4	7-L	473	GLY	N-CA-C	-7.03	104.29	112.73
4	8-L	473	GLY	N-CA-C	-7.03	104.29	112.73
2	1-I	10	LEU	O-C-N	7.03	130.91	122.27
6	1-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	1-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	2-I	10	LEU	O-C-N	7.03	130.91	122.27
6	2-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	2-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	3-I	10	LEU	O-C-N	7.03	130.91	122.27
6	3-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	3-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	4-I	10	LEU	O-C-N	7.03	130.91	122.27
6	4-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	4-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	5-I	10	LEU	O-C-N	7.03	130.91	122.27
6	5-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	5-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	6-I	10	LEU	O-C-N	7.03	130.91	122.27
6	6-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	6-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	7-I	10	LEU	O-C-N	7.03	130.91	122.27
6	7-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	7-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	8-I	10	LEU	O-C-N	7.03	130.91	122.27
6	8-N	473	GLN	CA-C-N	7.03	130.09	120.46
6	8-N	473	GLN	C-N-CA	7.03	130.09	120.46
2	1-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	1-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	2-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	2-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	3-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	3-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	4-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	4-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	5-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	5-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	6-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	6-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	7-U	301	LEU	CA-C-N	-7.02	112.47	119.56
2	7-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	8-U	301	LEU	CA-C-N	-7.02	112.47	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-U	301	LEU	C-N-CA	-7.02	112.47	119.56
2	1-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	1-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	1-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	1-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	2-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	2-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	2-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	2-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	3-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	3-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	3-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	3-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	4-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	4-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	4-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	4-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	5-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	5-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	5-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	5-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	6-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	6-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	6-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	6-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	7-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	7-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	7-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	7-Z	473	GLN	C-N-CA	7.02	130.08	120.46
2	8-C	8	GLU	CA-C-N	7.02	130.02	120.54
2	8-C	8	GLU	C-N-CA	7.02	130.02	120.54
6	8-Z	473	GLN	CA-C-N	7.02	130.08	120.46
6	8-Z	473	GLN	C-N-CA	7.02	130.08	120.46
4	1-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	2-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	3-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	4-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	5-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	6-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	7-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	8-X	397	ARG	CB-CA-C	-7.01	98.93	110.85
4	1-F	432	ASN	CA-C-N	-7.01	109.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	1-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	1-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	1-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	1-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	1-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	2-F	432	ASN	CA-C-N	-7.01	109.66	120.31
4	2-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	2-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	2-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	2-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	2-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	2-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	3-F	432	ASN	CA-C-N	-7.01	109.66	120.31
4	3-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	3-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	3-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	3-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	3-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	3-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	4-F	432	ASN	CA-C-N	-7.01	109.66	120.31
4	4-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	4-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	4-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	4-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	4-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	4-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	5-F	432	ASN	CA-C-N	-7.01	109.66	120.31
4	5-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	5-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	5-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	5-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	5-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	5-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	6-F	432	ASN	CA-C-N	-7.01	109.66	120.31
4	6-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	6-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	6-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	6-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	6-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	6-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	7-F	432	ASN	CA-C-N	-7.01	109.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	7-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	7-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	7-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	7-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	7-Y	274	ARG	C-N-CA	7.01	130.96	120.31
4	8-F	432	ASN	CA-C-N	-7.01	109.66	120.31
4	8-F	432	ASN	C-N-CA	-7.01	109.66	120.31
4	8-L	397	ARG	CB-CA-C	-7.01	98.94	110.85
6	8-T	473	GLN	CA-C-N	7.01	130.06	120.46
6	8-T	473	GLN	C-N-CA	7.01	130.06	120.46
5	8-Y	274	ARG	CA-C-N	7.01	130.96	120.31
5	8-Y	274	ARG	C-N-CA	7.01	130.96	120.31
2	1-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	2-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	3-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	4-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	5-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	6-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	7-O	9	LEU	N-CA-C	-7.00	102.70	111.11
2	8-O	9	LEU	N-CA-C	-7.00	102.70	111.11
6	1-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	1-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	1-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	1-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	1-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	2-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	2-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	2-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	2-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	2-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	3-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	3-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	3-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	3-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	3-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	4-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	4-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	4-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	4-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	4-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	5-H	473	GLN	CA-C-N	7.00	130.05	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	5-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	5-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	5-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	6-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	6-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	6-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	6-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	6-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	7-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	7-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	7-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	7-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	7-U	9	LEU	N-CA-C	-7.00	102.71	111.11
6	8-H	473	GLN	CA-C-N	7.00	130.05	120.46
6	8-H	473	GLN	C-N-CA	7.00	130.05	120.46
5	8-S	274	ARG	CA-C-N	7.00	130.95	120.31
5	8-S	274	ARG	C-N-CA	7.00	130.95	120.31
2	8-U	9	LEU	N-CA-C	-7.00	102.71	111.11
4	1-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	2-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	3-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	4-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	5-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	6-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	7-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	8-F	397	ARG	CB-CA-C	-7.00	98.95	110.85
4	1-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	1-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	1-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	1-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	2-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	2-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	2-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	2-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	3-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	3-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	3-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	3-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	4-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	4-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	4-R	432	ASN	CA-C-N	-7.00	109.67	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	5-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	5-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	5-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	5-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	6-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	6-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	6-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	6-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	7-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	7-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	7-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	7-R	432	ASN	C-N-CA	-7.00	109.67	120.31
4	8-L	432	ASN	CA-C-N	-7.00	109.67	120.31
4	8-L	432	ASN	C-N-CA	-7.00	109.67	120.31
4	8-R	432	ASN	CA-C-N	-7.00	109.67	120.31
4	8-R	432	ASN	C-N-CA	-7.00	109.67	120.31
5	1-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	2-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	3-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	4-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	5-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	6-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	7-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	8-Y	352	GLN	CA-C-O	7.00	127.97	120.55
5	1-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	1-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	1-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	1-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	2-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	2-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	2-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	2-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	3-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	3-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	3-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	3-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	4-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	4-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	4-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	4-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	5-M	274	ARG	CA-C-N	7.00	130.94	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	5-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	5-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	6-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	6-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	6-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	6-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	7-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	7-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	7-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	7-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
5	8-M	274	ARG	CA-C-N	7.00	130.94	120.31
5	8-M	274	ARG	C-N-CA	7.00	130.94	120.31
6	8-Z	405	ASP	CA-C-N	-7.00	108.35	122.55
6	8-Z	405	ASP	C-N-CA	-7.00	108.35	122.55
4	1-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	1-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	1-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	2-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	2-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	2-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	3-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	3-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	3-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	4-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	4-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	4-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	5-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	5-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	5-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	6-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	6-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	6-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	7-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	7-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	7-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	8-R	397	ARG	CB-CA-C	-7.00	98.96	110.85
4	8-X	432	ASN	CA-C-N	-7.00	109.68	120.31
4	8-X	432	ASN	C-N-CA	-7.00	109.68	120.31
4	1-L	436	SER	CA-C-N	6.99	129.53	120.44
4	1-L	436	SER	C-N-CA	6.99	129.53	120.44
4	2-L	436	SER	CA-C-N	6.99	129.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	436	SER	C-N-CA	6.99	129.53	120.44
4	3-L	436	SER	CA-C-N	6.99	129.53	120.44
4	3-L	436	SER	C-N-CA	6.99	129.53	120.44
4	4-L	436	SER	CA-C-N	6.99	129.53	120.44
4	4-L	436	SER	C-N-CA	6.99	129.53	120.44
4	5-L	436	SER	CA-C-N	6.99	129.53	120.44
4	5-L	436	SER	C-N-CA	6.99	129.53	120.44
4	6-L	436	SER	CA-C-N	6.99	129.53	120.44
4	6-L	436	SER	C-N-CA	6.99	129.53	120.44
4	7-L	436	SER	CA-C-N	6.99	129.53	120.44
4	7-L	436	SER	C-N-CA	6.99	129.53	120.44
4	8-L	436	SER	CA-C-N	6.99	129.53	120.44
4	8-L	436	SER	C-N-CA	6.99	129.53	120.44
4	1-F	436	SER	CA-C-N	6.99	129.53	120.44
4	1-F	436	SER	C-N-CA	6.99	129.53	120.44
5	1-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	1-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	2-F	436	SER	CA-C-N	6.99	129.53	120.44
4	2-F	436	SER	C-N-CA	6.99	129.53	120.44
5	2-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	2-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	3-F	436	SER	CA-C-N	6.99	129.53	120.44
4	3-F	436	SER	C-N-CA	6.99	129.53	120.44
5	3-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	3-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	4-F	436	SER	CA-C-N	6.99	129.53	120.44
4	4-F	436	SER	C-N-CA	6.99	129.53	120.44
5	4-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	4-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	5-F	436	SER	CA-C-N	6.99	129.53	120.44
4	5-F	436	SER	C-N-CA	6.99	129.53	120.44
5	5-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	5-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	6-F	436	SER	CA-C-N	6.99	129.53	120.44
4	6-F	436	SER	C-N-CA	6.99	129.53	120.44
5	6-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	6-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	7-F	436	SER	CA-C-N	6.99	129.53	120.44
4	7-F	436	SER	C-N-CA	6.99	129.53	120.44
5	7-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	7-G	274	ARG	C-N-CA	6.99	130.93	120.31
4	8-F	436	SER	CA-C-N	6.99	129.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	436	SER	C-N-CA	6.99	129.53	120.44
5	8-G	274	ARG	CA-C-N	6.99	130.93	120.31
5	8-G	274	ARG	C-N-CA	6.99	130.93	120.31
6	1-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	1-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	2-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	2-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	3-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	3-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	4-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	4-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	5-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	5-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	6-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	6-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	7-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	7-N	405	ASP	C-N-CA	-6.99	108.36	122.55
6	8-N	405	ASP	CA-C-N	-6.99	108.36	122.55
6	8-N	405	ASP	C-N-CA	-6.99	108.36	122.55
2	1-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	1-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	1-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	2-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	2-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	2-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	3-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	3-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	3-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	4-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	4-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	4-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	5-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	5-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	5-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	6-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	6-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	6-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	7-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	7-S	333	PRO	CA-C-N	-6.99	112.32	119.94
5	7-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	8-I	9	LEU	N-CA-C	-6.99	102.72	111.11
5	8-S	333	PRO	CA-C-N	-6.99	112.32	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-S	333	PRO	C-N-CA	-6.99	112.32	119.94
2	1-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	1-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	1-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	2-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	2-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	2-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	3-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	3-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	3-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	4-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	4-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	4-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	5-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	5-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	5-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	6-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	6-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	6-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	7-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	7-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	7-V	878	PRO	N-CA-C	6.99	126.86	112.47
2	8-O	301	LEU	CA-C-N	-6.99	112.50	119.56
2	8-O	301	LEU	C-N-CA	-6.99	112.50	119.56
3	8-V	878	PRO	N-CA-C	6.99	126.86	112.47
5	1-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	1-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	2-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	2-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	3-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	3-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	4-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	4-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	5-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	5-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	6-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	6-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	7-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	7-G	333	PRO	C-N-CA	-6.98	112.33	119.94
5	8-G	333	PRO	CA-C-N	-6.98	112.33	119.94
5	8-G	333	PRO	C-N-CA	-6.98	112.33	119.94
2	1-C	9	LEU	N-CA-C	-6.98	102.73	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	1-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	2-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	2-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	2-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	3-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	3-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	3-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	4-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	4-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	4-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	5-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	5-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	5-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	6-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	6-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	6-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	7-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	7-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	7-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	8-C	9	LEU	N-CA-C	-6.98	102.73	111.11
2	8-I	301	LEU	CA-C-N	-6.98	112.51	119.56
2	8-I	301	LEU	C-N-CA	-6.98	112.51	119.56
2	1-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	1-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	1-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	1-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	2-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	2-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	2-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	2-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	3-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	3-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	3-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	3-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	4-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	4-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	4-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	4-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	5-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	5-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	5-H	405	ASP	CA-C-N	-6.98	108.38	122.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	6-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	6-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	6-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	6-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	7-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	7-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	7-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	7-H	405	ASP	C-N-CA	-6.98	108.38	122.55
2	8-C	301	LEU	CA-C-N	-6.98	112.51	119.56
2	8-C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	8-H	405	ASP	CA-C-N	-6.98	108.38	122.55
6	8-H	405	ASP	C-N-CA	-6.98	108.38	122.55
5	1-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	1-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	1-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	2-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	2-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	2-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	3-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	3-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	3-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	4-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	4-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	4-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	5-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	5-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	5-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	6-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	6-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	6-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	7-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	7-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	7-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	8-S	352	GLN	CA-C-O	6.98	127.95	120.55
6	8-T	405	ASP	CA-C-N	-6.98	108.39	122.55
6	8-T	405	ASP	C-N-CA	-6.98	108.39	122.55
5	1-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	2-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	3-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	4-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	5-Y	351	GLN	N-CA-C	-6.97	103.73	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	7-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	8-Y	351	GLN	N-CA-C	-6.97	103.73	111.82
5	1-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	1-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	1-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	2-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	2-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	2-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	3-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	3-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	3-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	4-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	4-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	4-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	5-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	5-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	5-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	6-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	6-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	6-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	7-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	7-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	7-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	8-G	352	GLN	CA-C-O	6.97	127.94	120.55
5	8-M	352	GLN	CA-C-O	6.97	127.94	120.55
5	8-S	351	GLN	N-CA-C	-6.97	103.73	111.82
5	1-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	2-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	3-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	4-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	5-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	6-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	7-G	351	GLN	N-CA-C	-6.97	103.74	111.82
5	8-G	351	GLN	N-CA-C	-6.97	103.74	111.82
3	1-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	1-R	436	SER	CA-C-N	6.97	129.50	120.44
4	1-R	436	SER	C-N-CA	6.97	129.50	120.44
3	2-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	2-R	436	SER	CA-C-N	6.97	129.50	120.44
4	2-R	436	SER	C-N-CA	6.97	129.50	120.44
3	3-P	878	PRO	N-CA-C	6.97	126.82	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	436	SER	CA-C-N	6.97	129.50	120.44
4	3-R	436	SER	C-N-CA	6.97	129.50	120.44
3	4-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	4-R	436	SER	CA-C-N	6.97	129.50	120.44
4	4-R	436	SER	C-N-CA	6.97	129.50	120.44
3	5-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	5-R	436	SER	CA-C-N	6.97	129.50	120.44
4	5-R	436	SER	C-N-CA	6.97	129.50	120.44
3	6-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	6-R	436	SER	CA-C-N	6.97	129.50	120.44
4	6-R	436	SER	C-N-CA	6.97	129.50	120.44
3	7-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	7-R	436	SER	CA-C-N	6.97	129.50	120.44
4	7-R	436	SER	C-N-CA	6.97	129.50	120.44
3	8-P	878	PRO	N-CA-C	6.97	126.82	112.47
4	8-R	436	SER	CA-C-N	6.97	129.50	120.44
4	8-R	436	SER	C-N-CA	6.97	129.50	120.44
4	1-L	349	THR	N-CA-C	6.96	118.95	111.36
5	1-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	2-L	349	THR	N-CA-C	6.96	118.95	111.36
5	2-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	3-L	349	THR	N-CA-C	6.96	118.95	111.36
5	3-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	4-L	349	THR	N-CA-C	6.96	118.95	111.36
5	4-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	5-L	349	THR	N-CA-C	6.96	118.95	111.36
5	5-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	6-L	349	THR	N-CA-C	6.96	118.95	111.36
5	6-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	7-L	349	THR	N-CA-C	6.96	118.95	111.36
5	7-M	351	GLN	N-CA-C	-6.96	103.74	111.82
4	8-L	349	THR	N-CA-C	6.96	118.95	111.36
5	8-M	351	GLN	N-CA-C	-6.96	103.74	111.82
2	1-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	2-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	3-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	4-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	5-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	6-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	7-I	214	GLU	CA-C-O	-6.96	113.51	120.82
2	8-I	214	GLU	CA-C-O	-6.96	113.51	120.82
4	1-R	349	THR	N-CA-C	6.96	118.95	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	349	THR	N-CA-C	6.96	118.95	111.36
4	3-R	349	THR	N-CA-C	6.96	118.95	111.36
4	4-R	349	THR	N-CA-C	6.96	118.95	111.36
4	5-R	349	THR	N-CA-C	6.96	118.95	111.36
4	6-R	349	THR	N-CA-C	6.96	118.95	111.36
4	7-R	349	THR	N-CA-C	6.96	118.95	111.36
4	8-R	349	THR	N-CA-C	6.96	118.95	111.36
4	1-X	349	THR	N-CA-C	6.96	118.95	111.36
4	2-X	349	THR	N-CA-C	6.96	118.95	111.36
4	3-X	349	THR	N-CA-C	6.96	118.95	111.36
4	4-X	349	THR	N-CA-C	6.96	118.95	111.36
4	5-X	349	THR	N-CA-C	6.96	118.95	111.36
4	6-X	349	THR	N-CA-C	6.96	118.95	111.36
4	7-X	349	THR	N-CA-C	6.96	118.95	111.36
4	8-X	349	THR	N-CA-C	6.96	118.95	111.36
5	1-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	2-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	3-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	4-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	5-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	6-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	7-M	380	ILE	O-C-N	-6.96	115.03	122.61
5	8-M	380	ILE	O-C-N	-6.96	115.03	122.61
6	1-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	2-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	3-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	4-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	5-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	6-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	7-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	8-H	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	1-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	2-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	3-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	4-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	5-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	6-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	7-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
6	8-N	353	GLN	CB-CA-C	-6.95	99.25	110.79
3	1-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	1-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	1-L	408	GLU	C-N-CA	6.95	130.16	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	1-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	1-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	2-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	2-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	2-L	408	GLU	C-N-CA	6.95	130.16	120.29
6	2-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	2-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	2-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	3-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	3-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	3-L	408	GLU	C-N-CA	6.95	130.16	120.29
6	3-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	3-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	3-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	4-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	4-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	4-L	408	GLU	C-N-CA	6.95	130.16	120.29
6	4-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	4-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	4-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	5-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	5-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	5-L	408	GLU	C-N-CA	6.95	130.16	120.29
6	5-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	5-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	5-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	6-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	6-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	6-L	408	GLU	C-N-CA	6.95	130.16	120.29
6	6-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	6-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	6-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	7-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	7-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	7-L	408	GLU	C-N-CA	6.95	130.16	120.29
6	7-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	7-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	7-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	8-J	878	PRO	N-CA-C	6.95	126.78	112.47
4	8-L	408	GLU	CA-C-N	6.95	130.16	120.29
4	8-L	408	GLU	C-N-CA	6.95	130.16	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	8-Y	333	PRO	CA-C-N	-6.95	112.37	119.94
5	8-Y	333	PRO	C-N-CA	-6.95	112.37	119.94
3	1-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	1-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	1-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	2-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	2-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	2-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	3-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	3-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	3-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	4-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	4-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	4-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	5-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	5-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	5-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	6-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	6-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	6-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	7-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	7-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	7-F	408	GLU	C-N-CA	6.95	130.16	120.29
3	8-D	878	PRO	N-CA-C	6.95	126.78	112.47
4	8-F	408	GLU	CA-C-N	6.95	130.16	120.29
4	8-F	408	GLU	C-N-CA	6.95	130.16	120.29
5	1-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	1-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	1-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	1-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	2-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	2-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	2-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	2-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	3-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	3-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	3-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	3-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	4-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	4-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	4-O	214	GLU	CA-C-O	-6.95	113.53	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	5-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	5-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	5-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	5-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	6-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	6-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	6-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	6-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	7-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	7-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	7-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	7-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
5	8-M	333	PRO	CA-C-N	-6.95	112.37	119.94
5	8-M	333	PRO	C-N-CA	-6.95	112.37	119.94
2	8-O	214	GLU	CA-C-O	-6.95	113.53	120.82
6	8-Z	353	GLN	CB-CA-C	-6.95	99.26	110.79
4	1-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	1-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	2-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	2-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	3-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	3-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	4-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	4-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	5-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	5-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	6-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	6-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	7-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	7-R	408	GLU	C-N-CA	6.94	130.15	120.29
4	8-R	408	GLU	CA-C-N	6.94	130.15	120.29
4	8-R	408	GLU	C-N-CA	6.94	130.15	120.29
5	1-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	1-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	1-V	1538	SER	O-C-N	6.94	131.41	122.39
5	1-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	2-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	2-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	2-V	1538	SER	O-C-N	6.94	131.41	122.39
5	2-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	3-S	380	ILE	O-C-N	-6.94	115.04	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	3-V	1538	SER	O-C-N	6.94	131.41	122.39
5	3-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	4-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	4-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	4-V	1538	SER	O-C-N	6.94	131.41	122.39
5	4-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	5-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	5-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	5-V	1538	SER	O-C-N	6.94	131.41	122.39
5	5-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	6-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	6-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	6-V	1538	SER	O-C-N	6.94	131.41	122.39
5	6-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	7-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	7-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	7-V	1538	SER	O-C-N	6.94	131.41	122.39
5	7-Y	380	ILE	O-C-N	-6.94	115.04	122.61
5	8-S	380	ILE	O-C-N	-6.94	115.04	122.61
2	8-U	214	GLU	CA-C-O	-6.94	113.53	120.82
3	8-V	1538	SER	O-C-N	6.94	131.41	122.39
5	8-Y	380	ILE	O-C-N	-6.94	115.04	122.61
3	1-D	1538	SER	O-C-N	6.94	131.41	122.39
3	1-J	1538	SER	O-C-N	6.94	131.41	122.39
3	2-D	1538	SER	O-C-N	6.94	131.41	122.39
3	2-J	1538	SER	O-C-N	6.94	131.41	122.39
3	3-D	1538	SER	O-C-N	6.94	131.41	122.39
3	3-J	1538	SER	O-C-N	6.94	131.41	122.39
3	4-D	1538	SER	O-C-N	6.94	131.41	122.39
3	4-J	1538	SER	O-C-N	6.94	131.41	122.39
3	5-D	1538	SER	O-C-N	6.94	131.41	122.39
3	5-J	1538	SER	O-C-N	6.94	131.41	122.39
3	6-D	1538	SER	O-C-N	6.94	131.41	122.39
3	6-J	1538	SER	O-C-N	6.94	131.41	122.39
3	7-D	1538	SER	O-C-N	6.94	131.41	122.39
3	7-J	1538	SER	O-C-N	6.94	131.41	122.39
3	8-D	1538	SER	O-C-N	6.94	131.41	122.39
3	8-J	1538	SER	O-C-N	6.94	131.41	122.39
4	1-X	436	SER	CA-C-N	6.94	129.46	120.44
4	1-X	436	SER	C-N-CA	6.94	129.46	120.44
4	2-X	436	SER	CA-C-N	6.94	129.46	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	436	SER	C-N-CA	6.94	129.46	120.44
4	3-X	436	SER	CA-C-N	6.94	129.46	120.44
4	3-X	436	SER	C-N-CA	6.94	129.46	120.44
4	4-X	436	SER	CA-C-N	6.94	129.46	120.44
4	4-X	436	SER	C-N-CA	6.94	129.46	120.44
4	5-X	436	SER	CA-C-N	6.94	129.46	120.44
4	5-X	436	SER	C-N-CA	6.94	129.46	120.44
4	6-X	436	SER	CA-C-N	6.94	129.46	120.44
4	6-X	436	SER	C-N-CA	6.94	129.46	120.44
4	7-X	436	SER	CA-C-N	6.94	129.46	120.44
4	7-X	436	SER	C-N-CA	6.94	129.46	120.44
4	8-X	436	SER	CA-C-N	6.94	129.46	120.44
4	8-X	436	SER	C-N-CA	6.94	129.46	120.44
5	1-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	2-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	3-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	4-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	5-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	6-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	7-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	8-G	398	ALA	N-CA-C	-6.94	103.80	111.36
5	1-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	2-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	3-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	4-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	5-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	6-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	7-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	8-G	377	ASN	N-CA-C	6.93	125.57	110.80
5	1-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	1-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	2-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	2-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	3-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	3-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	4-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	4-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	5-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	5-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	6-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	6-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	7-G	380	ILE	O-C-N	-6.93	115.06	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
5	8-G	380	ILE	O-C-N	-6.93	115.06	122.61
5	8-Y	398	ALA	N-CA-C	-6.93	103.81	111.36
3	1-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	1-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	1-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	2-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	2-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	2-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	3-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	3-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	3-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	4-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	4-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	4-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	5-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	5-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	5-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	6-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	6-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	6-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	7-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	7-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	7-X	408	GLU	C-N-CA	6.93	130.13	120.29
3	8-V	1552	THR	N-CA-C	6.93	119.85	111.40
4	8-X	408	GLU	CA-C-N	6.93	130.13	120.29
4	8-X	408	GLU	C-N-CA	6.93	130.13	120.29
5	1-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	1-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	2-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	2-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	3-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	3-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	4-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	4-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	5-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	5-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	6-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	6-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	7-Y	276	SER	CA-C-N	6.93	132.56	123.00
5	7-Y	276	SER	C-N-CA	6.93	132.56	123.00
5	8-Y	276	SER	CA-C-N	6.93	132.56	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-Y	276	SER	C-N-CA	6.93	132.56	123.00
3	1-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	2-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	3-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	4-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	5-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	6-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	7-J	1530	VAL	CA-C-O	6.92	128.19	120.85
3	8-J	1530	VAL	CA-C-O	6.92	128.19	120.85
4	1-F	349	THR	N-CA-C	6.92	118.90	111.36
4	2-F	349	THR	N-CA-C	6.92	118.90	111.36
4	3-F	349	THR	N-CA-C	6.92	118.90	111.36
4	4-F	349	THR	N-CA-C	6.92	118.90	111.36
4	5-F	349	THR	N-CA-C	6.92	118.90	111.36
4	6-F	349	THR	N-CA-C	6.92	118.90	111.36
4	7-F	349	THR	N-CA-C	6.92	118.90	111.36
4	8-F	349	THR	N-CA-C	6.92	118.90	111.36
5	1-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	2-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	3-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	4-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	5-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	6-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	7-S	377	ASN	N-CA-C	6.92	125.54	110.80
5	8-S	377	ASN	N-CA-C	6.92	125.54	110.80
6	1-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	1-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	2-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	2-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	3-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	3-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	4-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	4-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	5-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	5-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	6-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	6-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	7-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	7-N	476	LYS	C-N-CA	6.92	130.24	120.42
6	8-N	476	LYS	CA-C-N	6.92	130.24	120.42
6	8-N	476	LYS	C-N-CA	6.92	130.24	120.42
5	1-M	377	ASN	N-CA-C	6.91	125.53	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	2-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	2-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	3-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	3-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	4-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	4-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	5-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	5-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	6-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	6-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	7-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	7-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
5	8-M	377	ASN	N-CA-C	6.91	125.53	110.80
6	8-Z	478	LEU	N-CA-C	-6.91	103.80	111.82
6	1-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	1-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	1-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	1-P	1538	SER	O-C-N	6.91	131.37	122.39
5	1-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	2-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	2-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	2-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	2-P	1538	SER	O-C-N	6.91	131.37	122.39
5	2-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	3-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	3-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	3-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	3-P	1538	SER	O-C-N	6.91	131.37	122.39
5	3-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	4-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	4-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	4-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	4-P	1538	SER	O-C-N	6.91	131.37	122.39
5	4-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	5-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	5-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	5-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	5-P	1538	SER	O-C-N	6.91	131.37	122.39
5	5-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	6-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	6-H	476	LYS	C-N-CA	6.91	130.23	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	6-P	1538	SER	O-C-N	6.91	131.37	122.39
5	6-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	7-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	7-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	7-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	7-P	1538	SER	O-C-N	6.91	131.37	122.39
5	7-Y	377	ASN	N-CA-C	6.91	125.51	110.80
6	8-H	476	LYS	CA-C-N	6.91	130.23	120.42
6	8-H	476	LYS	C-N-CA	6.91	130.23	120.42
5	8-M	398	ALA	N-CA-C	-6.91	103.83	111.36
3	8-P	1538	SER	O-C-N	6.91	131.37	122.39
5	8-Y	377	ASN	N-CA-C	6.91	125.51	110.80
2	1-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	1-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	2-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	2-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	3-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	3-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	4-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	4-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	5-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	5-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	6-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	6-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	7-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	7-P	1530	VAL	CA-C-O	6.90	128.17	120.85
2	8-C	214	GLU	CA-C-O	-6.90	113.57	120.82
3	8-P	1530	VAL	CA-C-O	6.90	128.17	120.85
3	1-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	1-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	2-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	2-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	3-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	3-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	4-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	4-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	5-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	5-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	6-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	6-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	7-D	1552	THR	N-CA-C	6.90	119.82	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	398	ALA	N-CA-C	-6.90	103.84	111.36
3	8-D	1552	THR	N-CA-C	6.90	119.82	111.40
5	8-S	398	ALA	N-CA-C	-6.90	103.84	111.36
6	1-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	1-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	1-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	1-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	1-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	1-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	2-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	2-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	2-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	2-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	2-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	2-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	3-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	3-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	3-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	3-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	3-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	3-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	4-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	4-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	4-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	4-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	4-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	4-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	5-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	5-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	5-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	5-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	5-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	5-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	6-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	6-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	6-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	6-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	6-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	6-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	7-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	7-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	7-J	1475	ALA	C-N-CA	-6.90	111.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	7-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	7-T	476	LYS	C-N-CA	6.90	130.21	120.42
6	8-H	478	LEU	N-CA-C	-6.90	103.82	111.82
3	8-J	1475	ALA	CA-C-N	-6.90	111.47	120.44
3	8-J	1475	ALA	C-N-CA	-6.90	111.47	120.44
3	8-P	1552	THR	N-CA-C	6.90	119.81	111.40
6	8-T	476	LYS	CA-C-N	6.90	130.21	120.42
6	8-T	476	LYS	C-N-CA	6.90	130.21	120.42
3	1-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	1-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	2-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	2-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	3-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	3-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	4-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	4-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	5-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	5-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	6-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	6-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	7-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	7-X	399	SER	CB-CA-C	-6.90	96.70	110.42
3	8-V	1530	VAL	CA-C-O	6.90	128.16	120.85
4	8-X	399	SER	CB-CA-C	-6.90	96.70	110.42
4	1-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	1-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	2-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	2-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	3-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	3-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	4-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	4-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	5-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	5-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	6-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	6-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	7-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	7-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	8-F	399	SER	CB-CA-C	-6.89	96.70	110.42
6	8-T	478	LEU	N-CA-C	-6.89	103.82	111.82
4	1-L	399	SER	CB-CA-C	-6.89	96.70	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-S	276	SER	CA-C-N	6.89	132.51	123.00
5	1-S	276	SER	C-N-CA	6.89	132.51	123.00
4	2-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	2-S	276	SER	CA-C-N	6.89	132.51	123.00
5	2-S	276	SER	C-N-CA	6.89	132.51	123.00
4	3-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	3-S	276	SER	CA-C-N	6.89	132.51	123.00
5	3-S	276	SER	C-N-CA	6.89	132.51	123.00
4	4-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	4-S	276	SER	CA-C-N	6.89	132.51	123.00
5	4-S	276	SER	C-N-CA	6.89	132.51	123.00
4	5-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	5-S	276	SER	CA-C-N	6.89	132.51	123.00
5	5-S	276	SER	C-N-CA	6.89	132.51	123.00
4	6-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	6-S	276	SER	CA-C-N	6.89	132.51	123.00
5	6-S	276	SER	C-N-CA	6.89	132.51	123.00
4	7-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	7-S	276	SER	CA-C-N	6.89	132.51	123.00
5	7-S	276	SER	C-N-CA	6.89	132.51	123.00
4	8-L	399	SER	CB-CA-C	-6.89	96.70	110.42
5	8-S	276	SER	CA-C-N	6.89	132.51	123.00
5	8-S	276	SER	C-N-CA	6.89	132.51	123.00
3	1-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	1-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	1-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	2-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	2-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	2-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	3-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	3-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	3-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	4-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	4-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	4-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	5-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	5-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	5-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	6-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	6-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	6-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	7-J	1552	THR	N-CA-C	6.89	119.81	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	7-Z	476	LYS	C-N-CA	6.89	130.21	120.42
3	8-J	1552	THR	N-CA-C	6.89	119.81	111.40
6	8-Z	476	LYS	CA-C-N	6.89	130.21	120.42
6	8-Z	476	LYS	C-N-CA	6.89	130.21	120.42
4	1-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	1-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	1-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	2-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	2-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	2-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	3-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	3-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	3-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	4-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	4-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	4-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	5-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	5-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	5-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	6-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	6-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	6-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	7-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	7-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	7-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
4	8-F	407	GLU	N-CA-CB	6.89	120.25	110.12
3	8-V	1475	ALA	CA-C-N	-6.89	111.48	120.44
3	8-V	1475	ALA	C-N-CA	-6.89	111.48	120.44
5	1-M	276	SER	CA-C-N	6.89	132.50	123.00
5	1-M	276	SER	C-N-CA	6.89	132.50	123.00
5	2-M	276	SER	CA-C-N	6.89	132.50	123.00
5	2-M	276	SER	C-N-CA	6.89	132.50	123.00
5	3-M	276	SER	CA-C-N	6.89	132.50	123.00
5	3-M	276	SER	C-N-CA	6.89	132.50	123.00
5	4-M	276	SER	CA-C-N	6.89	132.50	123.00
5	4-M	276	SER	C-N-CA	6.89	132.50	123.00
5	5-M	276	SER	CA-C-N	6.89	132.50	123.00
5	5-M	276	SER	C-N-CA	6.89	132.50	123.00
5	6-M	276	SER	CA-C-N	6.89	132.50	123.00
5	6-M	276	SER	C-N-CA	6.89	132.50	123.00
5	7-M	276	SER	CA-C-N	6.89	132.50	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-M	276	SER	C-N-CA	6.89	132.50	123.00
5	8-M	276	SER	CA-C-N	6.89	132.50	123.00
5	8-M	276	SER	C-N-CA	6.89	132.50	123.00
4	1-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	2-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	3-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	4-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	5-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	6-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	7-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	8-L	407	GLU	N-CA-CB	6.88	120.24	110.12
4	1-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	2-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	3-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	4-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	5-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	6-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	7-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	8-X	407	GLU	N-CA-CB	6.88	120.23	110.12
4	1-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	1-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	2-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	2-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	3-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	3-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	4-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	4-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	5-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	5-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	6-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	6-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	7-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	7-R	407	GLU	N-CA-CB	6.88	120.23	110.12
4	8-R	404	GLN	CA-C-O	-6.88	114.06	121.14
4	8-R	407	GLU	N-CA-CB	6.88	120.23	110.12
5	1-G	276	SER	CA-C-N	6.88	132.49	123.00
5	1-G	276	SER	C-N-CA	6.88	132.49	123.00
6	1-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	1-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	2-G	276	SER	CA-C-N	6.88	132.49	123.00
5	2-G	276	SER	C-N-CA	6.88	132.49	123.00
6	2-N	478	LEU	N-CA-C	-6.88	103.84	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	3-G	276	SER	CA-C-N	6.88	132.49	123.00
5	3-G	276	SER	C-N-CA	6.88	132.49	123.00
6	3-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	3-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	4-G	276	SER	CA-C-N	6.88	132.49	123.00
5	4-G	276	SER	C-N-CA	6.88	132.49	123.00
6	4-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	4-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	5-G	276	SER	CA-C-N	6.88	132.49	123.00
5	5-G	276	SER	C-N-CA	6.88	132.49	123.00
6	5-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	5-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	6-G	276	SER	CA-C-N	6.88	132.49	123.00
5	6-G	276	SER	C-N-CA	6.88	132.49	123.00
6	6-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	6-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	7-G	276	SER	CA-C-N	6.88	132.49	123.00
5	7-G	276	SER	C-N-CA	6.88	132.49	123.00
6	7-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	7-R	399	SER	CB-CA-C	-6.88	96.74	110.42
5	8-G	276	SER	CA-C-N	6.88	132.49	123.00
5	8-G	276	SER	C-N-CA	6.88	132.49	123.00
6	8-N	478	LEU	N-CA-C	-6.88	103.84	111.82
4	8-R	399	SER	CB-CA-C	-6.88	96.74	110.42
4	1-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	2-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	3-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	4-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	5-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	6-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	7-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	8-X	463	ILE	N-CA-C	-6.87	95.05	109.34
4	1-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	1-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	2-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	2-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	3-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	3-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	4-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	4-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	5-L	463	ILE	N-CA-C	-6.87	95.05	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	6-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	6-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	7-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	7-R	463	ILE	N-CA-C	-6.87	95.05	109.34
4	8-L	463	ILE	N-CA-C	-6.87	95.05	109.34
4	8-R	463	ILE	N-CA-C	-6.87	95.05	109.34
3	1-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	2-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	3-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	4-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	5-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	6-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	7-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	8-D	1530	VAL	CA-C-O	6.87	128.13	120.85
3	1-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	1-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	2-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	2-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	3-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	3-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	4-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	4-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	5-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	5-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	6-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	6-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	7-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	7-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
3	8-D	1475	ALA	CA-C-N	-6.86	111.52	120.44
3	8-D	1475	ALA	C-N-CA	-6.86	111.52	120.44
4	1-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	2-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	3-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	4-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	5-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	6-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	7-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	8-F	463	ILE	N-CA-C	-6.86	95.08	109.34
4	1-R	482	LYS	O-C-N	-6.85	115.01	122.07
4	2-R	482	LYS	O-C-N	-6.85	115.01	122.07
4	3-R	482	LYS	O-C-N	-6.85	115.01	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	482	LYS	O-C-N	-6.85	115.01	122.07
4	5-R	482	LYS	O-C-N	-6.85	115.01	122.07
4	6-R	482	LYS	O-C-N	-6.85	115.01	122.07
4	7-R	482	LYS	O-C-N	-6.85	115.01	122.07
4	8-R	482	LYS	O-C-N	-6.85	115.01	122.07
5	1-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	2-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	3-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	4-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	5-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	6-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	7-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	8-M	338	GLU	N-CA-CB	6.85	120.93	110.79
5	1-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	2-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	3-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	4-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	5-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	6-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	7-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
5	8-Y	338	GLU	N-CA-CB	6.85	120.93	110.79
3	1-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	1-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	2-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	2-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	3-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	3-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	4-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	4-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	5-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	5-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	6-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	6-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	7-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	7-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
3	8-P	1475	ALA	CA-C-N	-6.84	111.54	120.44
3	8-P	1475	ALA	C-N-CA	-6.84	111.54	120.44
5	1-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	2-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	3-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	4-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	5-G	338	GLU	N-CA-CB	6.84	120.91	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	7-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	8-G	338	GLU	N-CA-CB	6.84	120.91	110.79
5	1-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	2-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	3-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	4-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	5-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	6-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	7-S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	8-S	338	GLU	N-CA-CB	6.84	120.91	110.79
4	1-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	2-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	3-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	4-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	5-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	6-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	7-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	8-L	404	GLN	CA-C-O	-6.83	114.10	121.14
4	1-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	1-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	1-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	1-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	2-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	2-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	2-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	2-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	3-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	3-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	3-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	3-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	4-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	4-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	4-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	4-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	5-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	5-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	5-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	5-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	6-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	6-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	6-X	391	ILE	C-N-CA	-6.83	109.19	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	7-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	7-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	7-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	7-Z	470	PRO	O-C-N	-6.83	113.42	122.64
4	8-F	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	8-X	391	ILE	CA-C-N	-6.83	109.19	121.14
4	8-X	391	ILE	C-N-CA	-6.83	109.19	121.14
6	8-Z	470	PRO	O-C-N	-6.83	113.42	122.64
2	1-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	1-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	1-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	1-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	2-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	2-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	2-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	2-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	3-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	3-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	3-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	3-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	4-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	4-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	4-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	4-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	5-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	5-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	5-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	5-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	6-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	6-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	6-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	6-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	7-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	7-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	7-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	7-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
2	8-C	727	VAL	CB-CA-C	-6.83	103.09	112.04
4	8-F	391	ILE	CA-C-N	-6.83	109.19	121.14
4	8-F	391	ILE	C-N-CA	-6.83	109.19	121.14
4	8-X	311	GLN	CB-CA-C	-6.83	98.20	110.70
4	1-F	404	GLN	CA-C-O	-6.82	114.11	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	3-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	4-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	5-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	6-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	7-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	8-F	404	GLN	CA-C-O	-6.82	114.11	121.14
4	1-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	1-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	2-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	2-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	3-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	3-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	4-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	4-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	5-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	5-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	6-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	6-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	7-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	7-R	391	ILE	C-N-CA	-6.82	109.20	121.14
4	8-R	391	ILE	CA-C-N	-6.82	109.20	121.14
4	8-R	391	ILE	C-N-CA	-6.82	109.20	121.14
2	1-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	2-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	3-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	4-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	5-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	6-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	7-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
2	8-O	727	VAL	CB-CA-C	-6.82	103.11	112.04
4	1-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	1-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	1-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	2-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	2-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	2-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	3-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	3-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	3-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	4-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	4-L	391	ILE	C-N-CA	-6.81	109.22	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	5-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	5-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	5-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	6-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	6-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	6-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	7-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	7-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	7-X	404	GLN	CA-C-O	-6.81	114.12	121.14
4	8-L	391	ILE	CA-C-N	-6.81	109.22	121.14
4	8-L	391	ILE	C-N-CA	-6.81	109.22	121.14
4	8-X	404	GLN	CA-C-O	-6.81	114.12	121.14
6	1-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	1-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	2-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	2-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	3-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	3-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	4-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	4-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	5-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	5-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	6-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	6-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	7-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	7-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	8-N	470	PRO	O-C-N	-6.81	113.45	122.64
5	8-Y	408	GLU	N-CA-C	-6.81	103.94	111.36
6	1-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	1-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	1-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	2-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	2-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	2-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	3-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	3-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	3-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	4-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	4-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	4-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	5-N	409	PRO	CA-C-N	6.81	132.09	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	5-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	6-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	6-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	6-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	7-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	7-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	7-T	470	PRO	O-C-N	-6.81	113.45	122.64
6	8-N	409	PRO	CA-C-N	6.81	132.09	120.72
6	8-N	409	PRO	C-N-CA	6.81	132.09	120.72
6	8-T	470	PRO	O-C-N	-6.81	113.45	122.64
4	1-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	1-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	1-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	1-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	2-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	2-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	2-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	2-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	3-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	3-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	3-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	3-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	4-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	4-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	4-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	4-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	5-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	5-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	5-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	5-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	6-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	6-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	6-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	6-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	7-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	7-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	7-G	408	GLU	N-CA-C	-6.80	103.94	111.36
4	7-X	482	LYS	O-C-N	-6.80	115.06	122.07
4	8-F	482	LYS	O-C-N	-6.80	115.06	122.07
4	8-F	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	8-G	408	GLU	N-CA-C	-6.80	103.94	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	482	LYS	O-C-N	-6.80	115.06	122.07
6	1-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	1-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	1-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	2-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	2-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	2-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	3-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	3-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	3-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	4-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	4-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	4-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	5-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	5-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	5-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	6-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	6-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	6-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	7-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	7-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	7-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
6	8-H	409	PRO	CA-C-N	6.80	132.08	120.72
6	8-H	409	PRO	C-N-CA	6.80	132.08	120.72
2	8-U	727	VAL	CB-CA-C	-6.80	103.13	112.04
4	1-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	1-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	1-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	2-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	2-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	2-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	3-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	3-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	3-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	4-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	4-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	4-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	5-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	5-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	5-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	6-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	6-R	311	GLN	CB-CA-C	-6.80	98.25	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	7-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	7-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	7-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	8-L	482	LYS	O-C-N	-6.80	115.06	122.07
4	8-R	311	GLN	CB-CA-C	-6.80	98.25	110.70
4	8-R	492	GLU	CB-CA-C	-6.80	96.89	110.42
4	1-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	1-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	1-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	2-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	2-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	2-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	3-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	3-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	3-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	4-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	4-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	4-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	5-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	5-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	5-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	6-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	6-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	6-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	7-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	7-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	7-Z	409	PRO	C-N-CA	6.80	132.07	120.72
4	8-L	311	GLN	CB-CA-C	-6.80	98.26	110.70
6	8-Z	409	PRO	CA-C-N	6.80	132.07	120.72
6	8-Z	409	PRO	C-N-CA	6.80	132.07	120.72
5	1-M	378	SER	O-C-N	-6.80	113.55	122.59
5	2-M	378	SER	O-C-N	-6.80	113.55	122.59
5	3-M	378	SER	O-C-N	-6.80	113.55	122.59
5	4-M	378	SER	O-C-N	-6.80	113.55	122.59
5	5-M	378	SER	O-C-N	-6.80	113.55	122.59
5	6-M	378	SER	O-C-N	-6.80	113.55	122.59
5	7-M	378	SER	O-C-N	-6.80	113.55	122.59
5	8-M	378	SER	O-C-N	-6.80	113.55	122.59
5	1-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	1-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	2-G	297	ALA	N-CA-C	-6.79	103.95	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	3-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	3-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	4-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	4-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	5-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	5-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	6-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	6-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	7-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	7-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
5	8-G	297	ALA	N-CA-C	-6.79	103.95	111.36
2	8-I	727	VAL	CB-CA-C	-6.79	103.14	112.04
6	1-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	1-S	378	SER	O-C-N	-6.79	113.56	122.59
6	2-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	2-S	378	SER	O-C-N	-6.79	113.56	122.59
6	3-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	3-S	378	SER	O-C-N	-6.79	113.56	122.59
6	4-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	4-S	378	SER	O-C-N	-6.79	113.56	122.59
6	5-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	5-S	378	SER	O-C-N	-6.79	113.56	122.59
6	6-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	6-S	378	SER	O-C-N	-6.79	113.56	122.59
6	7-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	7-S	378	SER	O-C-N	-6.79	113.56	122.59
6	8-H	470	PRO	O-C-N	-6.79	113.47	122.64
5	8-S	378	SER	O-C-N	-6.79	113.56	122.59
1	1-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	1-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	1-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	1-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	1-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	2-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	2-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	2-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	2-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	2-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	3-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	3-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	3-T	409	PRO	CA-C-N	6.79	132.06	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	3-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	4-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	4-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	4-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	4-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	4-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	5-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	5-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	5-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	5-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	5-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	6-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	6-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	6-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	6-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	6-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	7-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	7-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	7-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	7-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	7-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	8-K	415	LYS	N-CA-CB	6.79	121.97	110.49
4	8-L	389	VAL	CA-C-O	6.79	127.98	120.71
6	8-T	409	PRO	CA-C-N	6.79	132.06	120.72
6	8-T	409	PRO	C-N-CA	6.79	132.06	120.72
4	8-X	492	GLU	CB-CA-C	-6.79	96.91	110.42
1	1-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	1-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	2-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	2-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	3-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	3-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	4-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	4-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	5-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	5-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	6-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	6-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	7-A	415	LYS	N-CA-CB	6.79	121.96	110.49
3	7-D	1486	CYS	CA-C-O	6.79	127.75	120.55
1	8-A	415	LYS	N-CA-CB	6.79	121.96	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1486	CYS	CA-C-O	6.79	127.75	120.55
3	1-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	1-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	2-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	2-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	3-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	3-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	4-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	4-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	5-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	5-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	6-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	6-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	7-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	7-X	389	VAL	CA-C-O	6.79	127.97	120.71
3	8-P	1486	CYS	CA-C-O	6.79	127.75	120.55
4	8-X	389	VAL	CA-C-O	6.79	127.97	120.71
5	1-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	2-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	3-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	4-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	5-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	6-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	7-M	408	GLU	N-CA-C	-6.79	103.96	111.36
5	8-M	408	GLU	N-CA-C	-6.79	103.96	111.36
4	1-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	1-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	2-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	2-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	3-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	3-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	4-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	4-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	5-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	5-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	6-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	6-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	7-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	7-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
4	8-L	492	GLU	CB-CA-C	-6.78	96.92	110.42
1	8-Q	415	LYS	N-CA-CB	6.78	121.95	110.49
1	1-A	234	CYS	N-CA-C	6.78	118.56	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	2-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	2-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	3-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	3-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	4-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	4-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	5-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	5-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	6-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	6-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	7-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	7-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	8-A	234	CYS	N-CA-C	6.78	118.56	111.03
5	8-Y	378	SER	O-C-N	-6.78	113.57	122.59
1	1-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	1-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	1-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	2-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	2-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	2-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	3-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	3-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	3-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	4-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	4-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	4-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	5-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	5-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	5-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	6-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	6-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	6-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	7-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	7-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	7-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	8-B	234	CYS	N-CA-C	6.78	118.56	111.03
1	8-Q	910	GLN	CA-C-N	6.78	129.75	120.46
1	8-Q	910	GLN	C-N-CA	6.78	129.75	120.46
1	1-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	1-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	2-E	415	LYS	N-CA-CB	6.78	121.94	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	3-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	3-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	4-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	4-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	5-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	5-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	6-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	6-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	7-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	7-W	415	LYS	N-CA-CB	6.78	121.94	110.49
1	8-E	415	LYS	N-CA-CB	6.78	121.94	110.49
1	8-W	415	LYS	N-CA-CB	6.78	121.94	110.49
3	1-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	1-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	2-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	2-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	3-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	3-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	4-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	4-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	5-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	5-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	6-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	6-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	7-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	7-V	1494	MET	C-N-CA	-6.77	111.23	120.44
3	8-V	1494	MET	CA-C-N	-6.77	111.23	120.44
3	8-V	1494	MET	C-N-CA	-6.77	111.23	120.44
2	1-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	1-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	2-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	2-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	3-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	3-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	4-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	4-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	5-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	5-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	6-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	6-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	7-C	307	GLY	CA-C-N	6.77	134.47	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-C	307	GLY	C-N-CA	6.77	134.47	121.54
2	8-C	307	GLY	CA-C-N	6.77	134.47	121.54
2	8-C	307	GLY	C-N-CA	6.77	134.47	121.54
5	1-G	378	SER	O-C-N	-6.77	113.59	122.59
2	1-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	1-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	2-G	378	SER	O-C-N	-6.77	113.59	122.59
2	2-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	2-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	3-G	378	SER	O-C-N	-6.77	113.59	122.59
2	3-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	3-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	4-G	378	SER	O-C-N	-6.77	113.59	122.59
2	4-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	4-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	5-G	378	SER	O-C-N	-6.77	113.59	122.59
2	5-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	5-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	6-G	378	SER	O-C-N	-6.77	113.59	122.59
2	6-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	6-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	7-G	378	SER	O-C-N	-6.77	113.59	122.59
2	7-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	7-U	307	GLY	C-N-CA	6.77	134.47	121.54
5	8-G	378	SER	O-C-N	-6.77	113.59	122.59
2	8-U	307	GLY	CA-C-N	6.77	134.47	121.54
2	8-U	307	GLY	C-N-CA	6.77	134.47	121.54
1	1-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	1-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	1-G	344	ASP	O-C-N	-6.77	113.59	122.59
1	2-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	2-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	2-G	344	ASP	O-C-N	-6.77	113.59	122.59
1	3-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	3-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	3-G	344	ASP	O-C-N	-6.77	113.59	122.59
1	4-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	4-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	4-G	344	ASP	O-C-N	-6.77	113.59	122.59
1	5-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	5-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	5-G	344	ASP	O-C-N	-6.77	113.59	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	6-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	6-G	344	ASP	O-C-N	-6.77	113.59	122.59
1	7-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	7-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	7-G	344	ASP	O-C-N	-6.77	113.59	122.59
1	8-E	910	GLN	CA-C-N	6.77	129.73	120.46
1	8-E	910	GLN	C-N-CA	6.77	129.73	120.46
5	8-G	344	ASP	O-C-N	-6.77	113.59	122.59
5	1-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	1-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	1-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	2-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	2-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	2-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	3-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	3-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	3-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	4-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	4-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	4-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	5-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	5-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	5-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	6-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	6-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	6-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	7-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	7-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	7-W	910	GLN	C-N-CA	6.76	129.73	120.46
5	8-S	297	ALA	N-CA-C	-6.76	103.99	111.36
1	8-W	910	GLN	CA-C-N	6.76	129.73	120.46
1	8-W	910	GLN	C-N-CA	6.76	129.73	120.46
2	1-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	1-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	1-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	1-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	2-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	2-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	2-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	2-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	3-O	307	GLY	CA-C-N	6.76	134.45	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	3-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	3-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	4-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	4-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	4-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	4-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	5-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	5-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	5-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	5-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	6-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	6-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	6-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	6-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	7-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	7-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	7-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	7-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
2	8-O	307	GLY	CA-C-N	6.76	134.45	121.54
2	8-O	307	GLY	C-N-CA	6.76	134.45	121.54
5	8-S	408	GLU	N-CA-C	-6.76	103.99	111.36
5	8-Y	297	ALA	N-CA-C	-6.76	103.99	111.36
4	1-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	1-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	1-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	2-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	2-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	2-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	3-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	3-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	3-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	4-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	4-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	4-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	5-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	5-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	5-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	6-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	6-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	6-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	7-L	334	LEU	CA-C-N	-6.76	111.65	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	7-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	8-L	334	LEU	CA-C-N	-6.76	111.65	120.44
4	8-L	334	LEU	C-N-CA	-6.76	111.65	120.44
5	8-S	344	ASP	O-C-N	-6.76	113.60	122.59
4	1-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	1-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	1-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	1-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	1-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	1-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	1-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	1-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	1-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	1-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	2-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	2-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	2-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	2-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	2-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	2-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	2-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	2-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	2-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	2-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	3-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	3-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	3-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	3-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	3-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	3-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	3-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	3-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	3-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	3-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	4-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	4-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	4-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	4-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	4-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	4-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	4-U	180	ASN	N-CA-C	-6.76	103.84	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	4-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	4-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	5-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	5-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	5-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	5-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	5-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	5-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	5-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	5-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	5-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	5-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	6-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	6-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	6-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	6-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	6-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	6-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	6-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	6-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	6-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	6-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	7-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	7-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	7-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	7-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	7-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	7-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	7-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	7-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	7-X	334	LEU	CA-C-N	-6.76	111.66	120.44
4	7-X	334	LEU	C-N-CA	-6.76	111.66	120.44
4	8-L	465	GLN	CA-C-N	-6.76	109.32	121.14
4	8-L	465	GLN	C-N-CA	-6.76	109.32	121.14
5	8-M	297	ALA	N-CA-C	-6.76	104.00	111.36
1	8-Q	234	CYS	N-CA-C	6.76	118.53	111.03
4	8-R	334	LEU	CA-C-N	-6.76	111.66	120.44
4	8-R	334	LEU	C-N-CA	-6.76	111.66	120.44
2	8-U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	8-W	234	CYS	N-CA-C	6.76	118.53	111.03
4	8-X	334	LEU	CA-C-N	-6.76	111.66	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	334	LEU	C-N-CA	-6.76	111.66	120.44
3	1-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	1-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	1-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	1-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	1-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	2-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	2-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	2-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	2-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	2-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	3-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	3-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	3-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	3-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	3-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	4-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	4-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	4-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	4-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	4-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	5-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	5-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	5-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	5-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	5-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	6-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	6-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	6-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	6-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	6-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	7-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	7-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	7-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	7-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	7-X	465	GLN	C-N-CA	-6.75	109.32	121.14
3	8-J	1486	CYS	CA-C-O	6.75	127.71	120.55
1	8-K	910	GLN	CA-C-N	6.75	129.71	120.46
1	8-K	910	GLN	C-N-CA	6.75	129.71	120.46
4	8-X	465	GLN	CA-C-N	-6.75	109.32	121.14
4	8-X	465	GLN	C-N-CA	-6.75	109.32	121.14
1	1-E	234	CYS	N-CA-C	6.75	118.53	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	3-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	4-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	5-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	6-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	7-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	8-E	234	CYS	N-CA-C	6.75	118.53	111.03
1	1-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	1-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	2-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	2-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	3-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	3-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	4-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	4-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	5-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	5-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	6-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	6-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	7-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	7-V	1486	CYS	CA-C-O	6.75	127.71	120.55
1	8-B	415	LYS	N-CA-CB	6.75	121.90	110.49
3	8-V	1486	CYS	CA-C-O	6.75	127.71	120.55
4	1-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	1-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	2-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	2-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	3-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	3-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	4-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	4-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	5-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	5-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	6-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	6-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	7-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	7-F	465	GLN	C-N-CA	-6.75	109.33	121.14
4	8-F	465	GLN	CA-C-N	-6.75	109.33	121.14
4	8-F	465	GLN	C-N-CA	-6.75	109.33	121.14
1	1-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	1-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	2-K	234	CYS	N-CA-C	6.75	118.52	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	3-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	3-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	4-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	4-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	5-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	5-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	6-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	6-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	7-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	7-O	485	LEU	N-CA-C	-6.75	96.43	110.80
1	8-K	234	CYS	N-CA-C	6.75	118.52	111.03
2	8-O	485	LEU	N-CA-C	-6.75	96.43	110.80
3	1-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	1-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	1-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	1-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	1-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	2-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	2-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	2-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	2-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	2-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	3-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	3-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	3-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	3-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	3-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	4-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	4-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	4-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	4-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	4-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	5-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	5-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	5-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	5-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	5-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	6-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	6-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	6-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	6-J	626	PRO	N-CA-C	6.75	122.29	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	7-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	7-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	7-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	7-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	7-M	344	ASP	O-C-N	-6.75	113.62	122.59
3	8-D	1483	ARG	O-C-N	6.75	130.57	122.27
2	8-I	307	GLY	CA-C-N	6.75	134.43	121.54
2	8-I	307	GLY	C-N-CA	6.75	134.43	121.54
3	8-J	626	PRO	N-CA-C	6.75	122.29	113.86
5	8-M	344	ASP	O-C-N	-6.75	113.62	122.59
2	1-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	1-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	2-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	2-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	3-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	3-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	4-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	4-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	5-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	5-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	6-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	6-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	7-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	7-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	8-O	180	ASN	N-CA-C	-6.74	103.86	111.14
3	8-P	1483	ARG	O-C-N	6.74	130.56	122.27
2	1-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	1-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	2-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	2-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	3-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	3-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	4-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	4-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	5-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	5-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	6-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	6-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	7-I	485	LEU	N-CA-C	-6.74	96.44	110.80
4	7-R	389	VAL	CA-C-O	6.74	127.92	120.71
2	8-I	485	LEU	N-CA-C	-6.74	96.44	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	389	VAL	CA-C-O	6.74	127.92	120.71
4	1-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	1-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	1-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	1-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	2-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	2-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	2-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	2-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	3-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	3-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	3-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	3-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	4-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	4-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	4-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	4-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	5-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	5-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	5-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	5-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	6-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	6-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	6-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	6-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	7-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	7-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	7-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	7-R	465	GLN	C-N-CA	-6.74	109.34	121.14
4	8-F	334	LEU	CA-C-N	-6.74	111.68	120.44
4	8-F	334	LEU	C-N-CA	-6.74	111.68	120.44
4	8-R	465	GLN	CA-C-N	-6.74	109.34	121.14
4	8-R	465	GLN	C-N-CA	-6.74	109.34	121.14
3	1-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	1-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	2-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	2-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	3-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	3-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	4-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	4-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	5-D	626	PRO	N-CA-C	6.74	122.28	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	6-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	6-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	7-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	7-U	485	LEU	N-CA-C	-6.74	96.45	110.80
3	8-D	626	PRO	N-CA-C	6.74	122.28	113.86
2	8-U	485	LEU	N-CA-C	-6.74	96.45	110.80
2	1-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	1-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	1-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	1-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	1-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	1-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	2-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	2-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	2-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	2-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	2-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	2-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	3-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	3-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	3-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	3-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	3-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	3-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	4-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	4-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	4-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	4-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	4-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	4-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	5-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	5-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	5-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	5-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	5-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	5-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	6-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	6-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	6-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	6-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	6-R	453	TYR	CB-CA-C	-6.74	97.02	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	7-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	7-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	7-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	7-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	7-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	7-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	8-C	485	LEU	N-CA-C	-6.74	96.45	110.80
4	8-F	453	TYR	CB-CA-C	-6.74	97.02	110.42
3	8-J	1494	MET	CA-C-N	-6.74	111.28	120.44
3	8-J	1494	MET	C-N-CA	-6.74	111.28	120.44
4	8-R	453	TYR	CB-CA-C	-6.74	97.02	110.42
5	8-Y	344	ASP	O-C-N	-6.74	113.63	122.59
2	1-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	1-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	2-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	2-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	3-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	3-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	4-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	4-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	5-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	5-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	6-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	6-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	7-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	7-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	8-I	180	ASN	N-CA-C	-6.73	103.87	111.14
4	8-X	453	TYR	CB-CA-C	-6.73	97.02	110.42
2	1-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	1-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	1-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	2-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	2-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	2-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	3-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	3-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	3-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	4-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	4-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	4-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	5-C	180	ASN	N-CA-C	-6.73	103.87	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	5-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	6-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	6-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	6-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	7-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	7-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	7-P	1494	MET	C-N-CA	-6.73	111.28	120.44
2	8-C	180	ASN	N-CA-C	-6.73	103.87	111.14
3	8-P	1494	MET	CA-C-N	-6.73	111.28	120.44
3	8-P	1494	MET	C-N-CA	-6.73	111.28	120.44
3	1-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	2-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	3-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	4-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	5-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	6-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	7-V	1515	TYR	N-CA-C	6.73	118.27	111.07
3	8-V	1515	TYR	N-CA-C	6.73	118.27	111.07
2	1-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	2-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	3-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	4-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	5-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	6-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	7-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
2	8-O	28	HIS	N-CA-CB	-6.73	99.58	111.08
5	1-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	2-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	3-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	4-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	5-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	6-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	7-G	279	ALA	N-CA-C	-6.72	103.87	111.07
5	8-G	279	ALA	N-CA-C	-6.72	103.87	111.07
4	1-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
4	2-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
4	3-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
4	4-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
4	5-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
4	6-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
4	7-L	453	TYR	CB-CA-C	-6.72	97.04	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	453	TYR	CB-CA-C	-6.72	97.04	110.42
3	1-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	2-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	3-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	4-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	5-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	6-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	7-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	8-J	1499	LEU	CA-C-O	-6.72	113.43	120.55
3	1-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	1-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	1-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	2-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	2-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	2-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	3-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	3-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	3-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	4-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	4-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	4-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	5-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	5-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	5-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	6-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	6-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	6-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	7-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	7-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	7-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
3	8-J	1483	ARG	O-C-N	6.72	130.54	122.27
3	8-J	1515	TYR	N-CA-C	6.72	118.26	111.07
2	8-U	28	HIS	N-CA-CB	-6.72	99.59	111.08
2	1-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	2-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	3-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	4-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	5-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	6-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	7-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	8-U	251	ARG	N-CA-C	6.72	121.84	111.56
2	1-O	251	ARG	N-CA-C	6.72	121.84	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-O	251	ARG	N-CA-C	6.72	121.84	111.56
2	3-O	251	ARG	N-CA-C	6.72	121.84	111.56
2	4-O	251	ARG	N-CA-C	6.72	121.84	111.56
2	5-O	251	ARG	N-CA-C	6.72	121.84	111.56
2	6-O	251	ARG	N-CA-C	6.72	121.84	111.56
2	7-O	251	ARG	N-CA-C	6.72	121.84	111.56
2	8-O	251	ARG	N-CA-C	6.72	121.84	111.56
6	1-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	1-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	1-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	1-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	2-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	2-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	2-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	2-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	3-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	3-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	3-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	3-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	4-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	4-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	4-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	4-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	5-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	5-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	5-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	5-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	6-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	6-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	6-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	6-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	7-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	7-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	7-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	7-T	357	GLN	C-N-CA	-6.71	109.29	120.30
6	8-N	357	GLN	CA-C-N	-6.71	109.29	120.30
6	8-N	357	GLN	C-N-CA	-6.71	109.29	120.30
6	8-T	357	GLN	CA-C-N	-6.71	109.29	120.30
6	8-T	357	GLN	C-N-CA	-6.71	109.29	120.30
2	1-C	251	ARG	N-CA-C	6.71	121.83	111.56
2	2-C	251	ARG	N-CA-C	6.71	121.83	111.56
2	3-C	251	ARG	N-CA-C	6.71	121.83	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	251	ARG	N-CA-C	6.71	121.83	111.56
2	5-C	251	ARG	N-CA-C	6.71	121.83	111.56
2	6-C	251	ARG	N-CA-C	6.71	121.83	111.56
2	7-C	251	ARG	N-CA-C	6.71	121.83	111.56
2	8-C	251	ARG	N-CA-C	6.71	121.83	111.56
4	1-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	1-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	1-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	2-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	2-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	2-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	3-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	3-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	3-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	4-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	4-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	4-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	5-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	5-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	5-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	6-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	6-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	6-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	7-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	7-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	7-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
4	8-F	389	VAL	CA-C-O	6.71	127.89	120.71
3	8-P	1470	ILE	N-CA-C	-6.71	103.98	110.42
3	8-P	1499	LEU	CA-C-O	-6.71	113.44	120.55
3	1-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	1-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	1-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	2-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	2-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	2-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	3-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	3-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	3-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	4-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	4-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	4-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	5-D	1494	MET	CA-C-N	-6.71	111.32	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	5-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	6-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	6-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	6-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	7-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	7-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	7-V	1483	ARG	O-C-N	6.71	130.52	122.27
3	8-D	1494	MET	CA-C-N	-6.71	111.32	120.44
3	8-D	1494	MET	C-N-CA	-6.71	111.32	120.44
3	8-V	1483	ARG	O-C-N	6.71	130.52	122.27
2	1-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	2-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	3-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	4-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	5-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	6-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	7-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
2	8-I	28	HIS	N-CA-CB	-6.71	99.61	111.08
5	1-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	2-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	3-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	4-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	5-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	6-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	7-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
5	8-Y	344	ASP	N-CA-CB	6.70	121.82	110.49
3	1-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	2-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	3-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	4-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	5-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	6-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	7-V	626	PRO	N-CA-C	6.70	122.24	113.86
3	8-V	626	PRO	N-CA-C	6.70	122.24	113.86
6	1-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	1-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	2-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	2-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	3-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	3-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	4-Z	357	GLN	CA-C-N	-6.70	109.31	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	5-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	5-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	6-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	6-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	7-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	7-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	8-Z	357	GLN	CA-C-N	-6.70	109.31	120.30
6	8-Z	357	GLN	C-N-CA	-6.70	109.31	120.30
3	1-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	2-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	3-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	4-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	5-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	6-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	7-D	1515	TYR	N-CA-C	6.69	118.23	111.07
3	8-D	1515	TYR	N-CA-C	6.69	118.23	111.07
5	1-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	2-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	3-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	4-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	5-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	6-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	7-G	344	ASP	N-CA-CB	6.69	121.80	110.49
5	8-G	344	ASP	N-CA-CB	6.69	121.80	110.49
2	1-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	1-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	1-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	1-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	2-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	2-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	2-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	2-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	3-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	3-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	3-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	3-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	4-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	4-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	4-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	4-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	5-C	28	HIS	N-CA-CB	-6.69	99.64	111.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	5-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	5-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	6-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	6-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	6-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	6-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	7-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	7-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	7-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	7-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	8-C	28	HIS	N-CA-CB	-6.69	99.64	111.08
6	8-H	357	GLN	CA-C-N	-6.69	109.33	120.30
6	8-H	357	GLN	C-N-CA	-6.69	109.33	120.30
5	8-M	279	ALA	N-CA-C	-6.69	103.91	111.07
2	1-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	1-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	1-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	1-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	2-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	2-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	2-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	2-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	3-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	3-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	3-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	3-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	4-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	4-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	4-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	4-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	5-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	5-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	5-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	5-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	6-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	6-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	6-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	6-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	7-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	7-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	7-T	349	ARG	CA-C-N	6.69	129.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-T	349	ARG	C-N-CA	6.69	129.53	120.44
2	8-I	251	ARG	N-CA-C	6.69	121.79	111.56
5	8-S	344	ASP	N-CA-CB	6.69	121.79	110.49
6	8-T	349	ARG	CA-C-N	6.69	129.53	120.44
6	8-T	349	ARG	C-N-CA	6.69	129.53	120.44
3	1-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	1-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	1-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	1-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	1-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	2-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	2-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	2-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	2-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	2-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	3-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	3-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	3-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	3-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	3-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	4-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	4-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	4-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	4-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	4-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	5-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	5-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	5-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	5-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	5-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	6-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	6-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	6-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	6-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	6-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	7-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	7-S	279	ALA	N-CA-C	-6.68	103.92	111.07
5	7-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	7-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	7-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	8-P	626	PRO	N-CA-C	6.68	122.22	113.86
5	8-S	279	ALA	N-CA-C	-6.68	103.92	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-Y	279	ALA	N-CA-C	-6.68	103.92	111.07
6	8-Z	349	ARG	CA-C-N	6.68	129.53	120.44
6	8-Z	349	ARG	C-N-CA	6.68	129.53	120.44
3	1-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	2-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	3-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	4-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	5-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	6-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	7-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
3	8-V	1499	LEU	CA-C-O	-6.68	113.47	120.55
6	1-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	1-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	2-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	2-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	3-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	3-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	4-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	4-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	5-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	5-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	6-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	6-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	7-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	7-N	349	ARG	C-N-CA	6.68	129.53	120.44
6	8-N	349	ARG	CA-C-N	6.68	129.53	120.44
6	8-N	349	ARG	C-N-CA	6.68	129.53	120.44
5	1-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	1-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	1-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
5	2-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	2-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	2-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
5	3-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	3-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	3-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
5	4-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	4-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	4-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
5	5-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	5-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	5-V	1470	ILE	N-CA-C	-6.68	104.01	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	6-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	6-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
5	7-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	7-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	7-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
5	8-M	321	ASN	CA-C-N	6.68	129.23	120.28
5	8-M	321	ASN	C-N-CA	6.68	129.23	120.28
3	8-V	1470	ILE	N-CA-C	-6.68	104.01	110.42
2	1-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	1-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	1-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	2-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	2-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	2-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	3-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	3-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	3-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	4-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	4-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	4-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	5-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	5-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	5-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	6-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	6-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	6-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	7-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	7-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	7-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
2	8-C	6	PHE	CA-C-N	6.68	134.50	121.41
2	8-C	6	PHE	C-N-CA	6.68	134.50	121.41
1	8-Q	958	ASP	CB-CA-C	-6.68	107.84	115.79
3	1-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	1-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	2-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	2-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	3-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	3-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	4-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	4-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	5-J	1470	ILE	N-CA-C	-6.67	104.01	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	6-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	6-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	7-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	7-U	594	LYS	N-CA-C	-6.67	98.89	109.04
3	8-J	1470	ILE	N-CA-C	-6.67	104.01	110.42
2	8-U	594	LYS	N-CA-C	-6.67	98.89	109.04
5	1-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	1-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	1-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	2-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	2-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	2-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	3-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	3-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	3-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	4-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	4-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	4-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	5-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	5-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	5-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	6-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	6-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	6-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	7-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	7-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	7-P	1515	TYR	N-CA-C	6.67	118.20	111.07
5	8-G	321	ASN	CA-C-N	6.67	129.22	120.28
5	8-G	321	ASN	C-N-CA	6.67	129.22	120.28
3	8-P	1515	TYR	N-CA-C	6.67	118.20	111.07
3	1-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	1-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	1-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	1-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	2-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	2-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	2-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	2-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	3-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	3-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	3-Y	321	ASN	CA-C-N	6.67	129.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	4-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	4-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	4-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	4-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	5-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	5-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	5-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	5-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	6-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	6-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	6-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	6-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	7-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	7-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	7-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	7-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	8-D	1470	ILE	N-CA-C	-6.67	104.02	110.42
2	8-U	749	LEU	N-CA-C	-6.67	101.10	110.50
5	8-Y	321	ASN	CA-C-N	6.67	129.21	120.28
5	8-Y	321	ASN	C-N-CA	6.67	129.21	120.28
3	1-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	2-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	3-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	4-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	5-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	6-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	7-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
3	8-D	1499	LEU	CA-C-O	-6.67	113.48	120.55
2	1-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	2-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	3-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	4-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	5-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	6-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	7-I	594	LYS	N-CA-C	-6.66	98.91	109.04
2	8-I	594	LYS	N-CA-C	-6.66	98.91	109.04
1	1-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	2-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	3-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	4-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	5-W	958	ASP	CB-CA-C	-6.66	107.86	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	7-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	8-W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	1-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	2-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	3-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	4-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	5-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	6-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	7-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	8-K	958	ASP	CB-CA-C	-6.66	107.86	115.79
5	1-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	2-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	3-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	4-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	5-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	6-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	7-M	344	ASP	N-CA-CB	6.66	121.74	110.49
5	8-M	344	ASP	N-CA-CB	6.66	121.74	110.49
2	1-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	2-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	3-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	4-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	5-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	6-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	7-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	8-C	594	LYS	N-CA-C	-6.66	98.92	109.04
2	1-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	1-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	2-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	2-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	3-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	3-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	4-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	4-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	5-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	5-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	6-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	6-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	7-C	749	LEU	N-CA-C	-6.66	101.12	110.50
2	7-O	594	LYS	N-CA-C	-6.66	98.92	109.04
2	8-C	749	LEU	N-CA-C	-6.66	101.12	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-O	594	LYS	N-CA-C	-6.66	98.92	109.04
6	1-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	2-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	3-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	4-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	5-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	6-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	7-T	475	CYS	CA-C-O	-6.65	113.37	120.42
6	8-T	475	CYS	CA-C-O	-6.65	113.37	120.42
1	1-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	1-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	1-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	1-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	1-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	1-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	2-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	2-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	2-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	2-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	2-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	2-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	3-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	3-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	3-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	3-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	3-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	3-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	4-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	4-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	4-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	4-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	4-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	4-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	5-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	5-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	5-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	5-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	5-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	5-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	6-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	6-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	6-O	6	PHE	CA-C-N	6.65	134.45	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	6-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	6-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	7-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	7-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	7-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	7-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	7-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	7-U	6	PHE	C-N-CA	6.65	134.45	121.41
1	8-E	958	ASP	CB-CA-C	-6.65	107.87	115.79
2	8-I	749	LEU	N-CA-C	-6.65	101.12	110.50
2	8-O	6	PHE	CA-C-N	6.65	134.45	121.41
2	8-O	6	PHE	C-N-CA	6.65	134.45	121.41
2	8-U	6	PHE	CA-C-N	6.65	134.45	121.41
2	8-U	6	PHE	C-N-CA	6.65	134.45	121.41
3	1-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	1-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	1-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	1-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	1-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	2-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	2-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	2-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	2-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	2-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	3-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	3-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	3-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	3-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	3-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	4-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	4-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	4-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	4-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	4-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	5-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	5-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	5-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	5-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	5-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	6-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	6-J	1471	GLU	C-N-CA	-6.65	111.88	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	6-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	6-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	7-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	7-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	7-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	7-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	7-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	8-J	1471	GLU	CA-C-N	-6.65	111.88	120.65
3	8-J	1471	GLU	C-N-CA	-6.65	111.88	120.65
4	8-L	430	ARG	N-CA-C	6.65	118.32	111.14
5	8-S	321	ASN	CA-C-N	6.65	129.19	120.28
5	8-S	321	ASN	C-N-CA	6.65	129.19	120.28
3	1-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	1-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	2-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	2-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	3-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	3-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	4-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	4-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	5-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	5-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	6-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	6-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	7-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	7-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
3	8-V	1536	LEU	CA-C-N	-6.64	110.85	120.29
3	8-V	1536	LEU	C-N-CA	-6.64	110.85	120.29
2	1-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	1-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	1-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	1-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	1-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	2-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	2-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	2-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	2-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	2-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	3-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	3-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	3-V	1451	ARG	CA-C-N	-6.64	111.81	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	3-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	4-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	4-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	4-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	4-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	4-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	5-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	5-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	5-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	5-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	5-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	6-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	6-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	6-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	6-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	6-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	7-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	7-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	7-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	7-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	7-X	404	GLN	N-CA-CB	6.64	122.58	110.76
2	8-I	6	PHE	CA-C-N	6.64	134.43	121.41
2	8-I	6	PHE	C-N-CA	6.64	134.43	121.41
3	8-V	1451	ARG	CA-C-N	-6.64	111.81	120.44
3	8-V	1451	ARG	C-N-CA	-6.64	111.81	120.44
4	8-X	404	GLN	N-CA-CB	6.64	122.58	110.76
4	1-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	2-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	3-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	4-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	5-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	6-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	7-L	404	GLN	N-CA-CB	6.64	122.58	110.76
4	8-L	404	GLN	N-CA-CB	6.64	122.58	110.76
6	1-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	1-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	2-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	2-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	3-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	3-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	4-H	349	ARG	CA-C-N	6.64	129.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	5-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	5-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	6-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	6-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	7-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	7-H	349	ARG	C-N-CA	6.64	129.47	120.44
6	8-H	349	ARG	CA-C-N	6.64	129.47	120.44
6	8-H	349	ARG	C-N-CA	6.64	129.47	120.44
4	1-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	1-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	1-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	1-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	2-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	2-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	2-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	2-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	3-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	3-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	3-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	3-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	4-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	4-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	4-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	4-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	5-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	5-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	5-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	5-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	6-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	6-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	6-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	6-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	7-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	7-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	7-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	7-X	462	GLU	O-C-N	-6.64	114.19	122.35
4	8-F	430	ARG	N-CA-C	6.64	118.31	111.14
3	8-J	1536	LEU	CA-C-N	-6.64	110.87	120.29
3	8-J	1536	LEU	C-N-CA	-6.64	110.87	120.29
4	8-X	462	GLU	O-C-N	-6.64	114.19	122.35
3	1-J	1451	ARG	CA-C-N	-6.63	111.82	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	2-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	2-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	3-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	3-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	4-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	4-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	5-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	5-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	6-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	6-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	7-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	7-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
3	8-J	1451	ARG	CA-C-N	-6.63	111.82	120.44
3	8-J	1451	ARG	C-N-CA	-6.63	111.82	120.44
6	1-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	2-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	3-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	4-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	5-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	6-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	7-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
6	8-Z	475	CYS	CA-C-O	-6.63	113.39	120.42
2	1-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	2-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	3-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	4-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	5-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	6-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	7-O	749	LEU	N-CA-C	-6.63	101.15	110.50
2	8-O	749	LEU	N-CA-C	-6.63	101.15	110.50
3	1-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	1-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	2-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	2-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	3-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	3-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	4-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	4-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	5-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	5-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	6-P	1471	GLU	CA-C-N	-6.63	111.90	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	7-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	7-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	8-P	1471	GLU	CA-C-N	-6.63	111.90	120.65
3	8-P	1471	GLU	C-N-CA	-6.63	111.90	120.65
3	1-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	1-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	1-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	1-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	1-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	1-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	2-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	2-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	2-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	2-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	2-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	2-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	3-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	3-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	3-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	3-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	3-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	3-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	4-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	4-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	4-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	4-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	4-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	4-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	5-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	5-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	5-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	5-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	5-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	5-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	6-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	6-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	6-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	6-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	6-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	6-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	7-P	1451	ARG	CA-C-N	-6.62	111.83	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	7-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	7-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	7-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	7-X	430	ARG	N-CA-C	6.62	118.29	111.14
3	8-P	1451	ARG	CA-C-N	-6.62	111.83	120.44
3	8-P	1451	ARG	C-N-CA	-6.62	111.83	120.44
3	8-P	1536	LEU	CA-C-N	-6.62	110.89	120.29
3	8-P	1536	LEU	C-N-CA	-6.62	110.89	120.29
4	8-R	404	GLN	N-CA-CB	6.62	122.55	110.76
4	8-X	430	ARG	N-CA-C	6.62	118.29	111.14
4	1-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	1-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	1-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	2-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	2-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	2-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	3-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	3-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	3-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	4-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	4-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	4-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	5-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	5-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	5-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	6-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	6-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	6-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	7-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	7-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	7-R	462	GLU	O-C-N	-6.62	114.21	122.35
4	8-F	404	GLN	N-CA-CB	6.62	122.55	110.76
6	8-N	475	CYS	CA-C-O	-6.62	113.40	120.42
4	8-R	462	GLU	O-C-N	-6.62	114.21	122.35
3	1-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	1-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	2-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	2-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	3-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	3-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	4-D	1471	GLU	CA-C-N	-6.62	111.91	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	5-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	5-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	6-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	6-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	7-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	7-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
3	8-D	1471	GLU	CA-C-N	-6.62	111.91	120.65
3	8-D	1471	GLU	C-N-CA	-6.62	111.91	120.65
2	1-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	2-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	3-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	4-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	5-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	6-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	7-C	751	ALA	N-CA-C	-6.62	104.15	111.36
2	8-C	751	ALA	N-CA-C	-6.62	104.15	111.36
4	1-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	1-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	1-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	2-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	2-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	2-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	3-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	3-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	3-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	4-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	4-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	4-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	5-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	5-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	5-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	6-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	6-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	6-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	7-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	7-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	7-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	8-F	462	GLU	O-C-N	-6.62	114.21	122.35
3	8-V	1471	GLU	CA-C-N	-6.62	111.92	120.65
3	8-V	1471	GLU	C-N-CA	-6.62	111.92	120.65
4	1-F	451	GLU	O-C-N	6.61	131.38	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	2-F	451	GLU	O-C-N	6.61	131.38	122.59
4	2-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	3-F	451	GLU	O-C-N	6.61	131.38	122.59
4	3-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	4-F	451	GLU	O-C-N	6.61	131.38	122.59
4	4-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	5-F	451	GLU	O-C-N	6.61	131.38	122.59
4	5-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	6-F	451	GLU	O-C-N	6.61	131.38	122.59
4	6-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	7-F	451	GLU	O-C-N	6.61	131.38	122.59
4	7-L	462	GLU	O-C-N	-6.61	114.22	122.35
4	8-F	451	GLU	O-C-N	6.61	131.38	122.59
4	8-L	462	GLU	O-C-N	-6.61	114.22	122.35
5	1-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	2-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	3-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	4-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	5-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	6-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	7-G	380	ILE	N-CA-C	6.61	119.15	109.63
5	8-G	380	ILE	N-CA-C	6.61	119.15	109.63
3	1-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	1-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	1-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	2-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	2-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	2-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	3-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	3-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	3-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	4-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	4-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	4-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	5-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	5-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	5-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	6-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	6-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	6-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	7-D	1451	ARG	CA-C-N	-6.61	111.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	7-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
3	8-D	1451	ARG	CA-C-N	-6.61	111.85	120.44
3	8-D	1451	ARG	C-N-CA	-6.61	111.85	120.44
2	8-U	6	PHE	N-CA-CB	-6.61	100.33	110.44
2	1-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	2-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	3-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	4-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	5-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	6-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	7-I	751	ALA	N-CA-C	-6.61	104.16	111.36
2	8-I	751	ALA	N-CA-C	-6.61	104.16	111.36
3	1-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	1-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	2-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	2-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	3-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	3-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	4-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	4-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	5-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	5-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	6-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	6-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	7-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	7-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
3	8-D	1536	LEU	CA-C-N	-6.60	110.91	120.29
3	8-D	1536	LEU	C-N-CA	-6.60	110.91	120.29
2	1-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	2-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	3-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	4-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	5-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	6-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	7-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	8-O	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	1-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	2-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	3-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	4-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	5-C	6	PHE	N-CA-CB	-6.60	100.34	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	7-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
2	8-C	6	PHE	N-CA-CB	-6.60	100.34	110.44
6	1-T	335	SER	CA-C-N	6.60	129.41	120.44
6	1-T	335	SER	C-N-CA	6.60	129.41	120.44
6	1-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	2-T	335	SER	CA-C-N	6.60	129.41	120.44
6	2-T	335	SER	C-N-CA	6.60	129.41	120.44
6	2-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	3-T	335	SER	CA-C-N	6.60	129.41	120.44
6	3-T	335	SER	C-N-CA	6.60	129.41	120.44
6	3-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	4-T	335	SER	CA-C-N	6.60	129.41	120.44
6	4-T	335	SER	C-N-CA	6.60	129.41	120.44
6	4-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	5-T	335	SER	CA-C-N	6.60	129.41	120.44
6	5-T	335	SER	C-N-CA	6.60	129.41	120.44
6	5-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	6-T	335	SER	CA-C-N	6.60	129.41	120.44
6	6-T	335	SER	C-N-CA	6.60	129.41	120.44
6	6-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	7-T	335	SER	CA-C-N	6.60	129.41	120.44
6	7-T	335	SER	C-N-CA	6.60	129.41	120.44
6	7-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	8-T	335	SER	CA-C-N	6.60	129.41	120.44
6	8-T	335	SER	C-N-CA	6.60	129.41	120.44
6	8-Z	352	LEU	CB-CA-C	6.60	121.36	110.81
6	1-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	1-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	2-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	2-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	3-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	3-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	4-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	4-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	5-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	5-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	6-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	6-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	7-Z	335	SER	CA-C-N	6.59	129.41	120.44
6	7-Z	335	SER	C-N-CA	6.59	129.41	120.44
6	8-Z	335	SER	CA-C-N	6.59	129.41	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	335	SER	C-N-CA	6.59	129.41	120.44
2	1-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	2-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	3-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	4-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	5-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	6-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	7-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
2	8-I	6	PHE	N-CA-CB	-6.59	100.35	110.44
6	1-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	2-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	3-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	4-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	5-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	6-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	7-T	352	LEU	CB-CA-C	6.59	121.36	110.81
6	8-T	352	LEU	CB-CA-C	6.59	121.36	110.81
2	1-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	1-T	387	LYS	O-C-N	6.59	129.10	122.12
2	2-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	2-T	387	LYS	O-C-N	6.59	129.10	122.12
2	3-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	3-T	387	LYS	O-C-N	6.59	129.10	122.12
2	4-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	4-T	387	LYS	O-C-N	6.59	129.10	122.12
2	5-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	5-T	387	LYS	O-C-N	6.59	129.10	122.12
2	6-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	6-T	387	LYS	O-C-N	6.59	129.10	122.12
2	7-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	7-T	387	LYS	O-C-N	6.59	129.10	122.12
2	8-O	751	ALA	N-CA-C	-6.59	104.18	111.36
6	8-T	387	LYS	O-C-N	6.59	129.10	122.12
6	1-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	1-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	2-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	2-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	3-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	3-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	4-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	4-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	5-H	475	CYS	CA-C-O	-6.58	113.44	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	6-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	6-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	7-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	7-N	352	LEU	CB-CA-C	6.58	121.34	110.81
6	8-H	475	CYS	CA-C-O	-6.58	113.44	120.42
6	8-N	352	LEU	CB-CA-C	6.58	121.34	110.81
4	1-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	1-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	2-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	2-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	3-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	3-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	4-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	4-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	5-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	5-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	6-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	6-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	7-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	7-U	751	ALA	N-CA-C	-6.58	104.19	111.36
4	8-R	430	ARG	N-CA-C	6.58	118.25	111.14
2	8-U	751	ALA	N-CA-C	-6.58	104.19	111.36
5	1-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	2-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	3-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	4-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	5-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	6-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	7-M	274	ARG	N-CA-CB	6.58	119.79	110.12
5	8-M	274	ARG	N-CA-CB	6.58	119.79	110.12
4	1-R	451	GLU	O-C-N	6.58	131.34	122.59
4	2-R	451	GLU	O-C-N	6.58	131.34	122.59
4	3-R	451	GLU	O-C-N	6.58	131.34	122.59
4	4-R	451	GLU	O-C-N	6.58	131.34	122.59
4	5-R	451	GLU	O-C-N	6.58	131.34	122.59
4	6-R	451	GLU	O-C-N	6.58	131.34	122.59
4	7-R	451	GLU	O-C-N	6.58	131.34	122.59
4	8-R	451	GLU	O-C-N	6.58	131.34	122.59
5	1-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
5	2-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
5	3-Y	274	ARG	N-CA-CB	6.57	119.78	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
5	5-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
5	6-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
5	7-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
5	8-Y	274	ARG	N-CA-CB	6.57	119.78	110.12
6	1-H	335	SER	CA-C-N	6.57	129.37	120.44
6	1-H	335	SER	C-N-CA	6.57	129.37	120.44
6	1-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	2-H	335	SER	CA-C-N	6.57	129.37	120.44
6	2-H	335	SER	C-N-CA	6.57	129.37	120.44
6	2-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	3-H	335	SER	CA-C-N	6.57	129.37	120.44
6	3-H	335	SER	C-N-CA	6.57	129.37	120.44
6	3-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	4-H	335	SER	CA-C-N	6.57	129.37	120.44
6	4-H	335	SER	C-N-CA	6.57	129.37	120.44
6	4-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	5-H	335	SER	CA-C-N	6.57	129.37	120.44
6	5-H	335	SER	C-N-CA	6.57	129.37	120.44
6	5-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	6-H	335	SER	CA-C-N	6.57	129.37	120.44
6	6-H	335	SER	C-N-CA	6.57	129.37	120.44
6	6-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	7-H	335	SER	CA-C-N	6.57	129.37	120.44
6	7-H	335	SER	C-N-CA	6.57	129.37	120.44
6	7-N	493	ALA	CA-C-O	-6.57	111.54	119.49
6	8-H	335	SER	CA-C-N	6.57	129.37	120.44
6	8-H	335	SER	C-N-CA	6.57	129.37	120.44
6	8-N	493	ALA	CA-C-O	-6.57	111.54	119.49
5	1-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	1-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	2-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	2-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	3-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	3-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	4-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	4-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	5-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	5-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	6-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	6-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	7-G	274	ARG	N-CA-CB	6.56	119.77	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	274	ARG	N-CA-CB	6.56	119.77	110.12
5	8-G	274	ARG	N-CA-CB	6.56	119.77	110.12
5	8-S	274	ARG	N-CA-CB	6.56	119.77	110.12
4	1-X	451	GLU	O-C-N	6.56	131.32	122.59
4	2-X	451	GLU	O-C-N	6.56	131.32	122.59
4	3-X	451	GLU	O-C-N	6.56	131.32	122.59
4	4-X	451	GLU	O-C-N	6.56	131.32	122.59
4	5-X	451	GLU	O-C-N	6.56	131.32	122.59
4	6-X	451	GLU	O-C-N	6.56	131.32	122.59
4	7-X	451	GLU	O-C-N	6.56	131.32	122.59
4	8-X	451	GLU	O-C-N	6.56	131.32	122.59
6	1-N	335	SER	CA-C-N	6.56	129.36	120.44
6	1-N	335	SER	C-N-CA	6.56	129.36	120.44
6	2-N	335	SER	CA-C-N	6.56	129.36	120.44
6	2-N	335	SER	C-N-CA	6.56	129.36	120.44
6	3-N	335	SER	CA-C-N	6.56	129.36	120.44
6	3-N	335	SER	C-N-CA	6.56	129.36	120.44
6	4-N	335	SER	CA-C-N	6.56	129.36	120.44
6	4-N	335	SER	C-N-CA	6.56	129.36	120.44
6	5-N	335	SER	CA-C-N	6.56	129.36	120.44
6	5-N	335	SER	C-N-CA	6.56	129.36	120.44
6	6-N	335	SER	CA-C-N	6.56	129.36	120.44
6	6-N	335	SER	C-N-CA	6.56	129.36	120.44
6	7-N	335	SER	CA-C-N	6.56	129.36	120.44
6	7-N	335	SER	C-N-CA	6.56	129.36	120.44
6	8-N	335	SER	CA-C-N	6.56	129.36	120.44
6	8-N	335	SER	C-N-CA	6.56	129.36	120.44
4	1-L	451	GLU	O-C-N	6.56	131.31	122.59
3	1-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	2-L	451	GLU	O-C-N	6.56	131.31	122.59
3	2-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	3-L	451	GLU	O-C-N	6.56	131.31	122.59
3	3-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	4-L	451	GLU	O-C-N	6.56	131.31	122.59
3	4-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	5-L	451	GLU	O-C-N	6.56	131.31	122.59
3	5-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	6-L	451	GLU	O-C-N	6.56	131.31	122.59
3	6-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	7-L	451	GLU	O-C-N	6.56	131.31	122.59
3	7-V	1493	ARG	N-CA-C	6.56	119.26	111.33
4	8-L	451	GLU	O-C-N	6.56	131.31	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1493	ARG	N-CA-C	6.56	119.26	111.33
6	1-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	1-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	2-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	2-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	3-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	3-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	4-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	4-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	5-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	5-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	6-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	6-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	7-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	7-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	8-H	493	ALA	CA-C-O	-6.56	111.56	119.49
3	8-J	1493	ARG	N-CA-C	6.56	119.26	111.33
6	1-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	1-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	1-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	2-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	2-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	2-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	3-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	3-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	3-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	4-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	4-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	4-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	5-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	5-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	5-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	6-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	6-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	6-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	7-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	7-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	7-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
6	8-H	352	LEU	CB-CA-C	6.55	121.30	110.81
6	8-Z	387	LYS	O-C-N	6.55	129.07	122.12
6	8-Z	493	ALA	CA-C-O	-6.55	111.56	119.49
4	1-R	429	GLY	O-C-N	6.55	128.47	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	429	GLY	O-C-N	6.55	128.47	122.19
4	3-R	429	GLY	O-C-N	6.55	128.47	122.19
4	4-R	429	GLY	O-C-N	6.55	128.47	122.19
4	5-R	429	GLY	O-C-N	6.55	128.47	122.19
4	6-R	429	GLY	O-C-N	6.55	128.47	122.19
4	7-R	429	GLY	O-C-N	6.55	128.47	122.19
4	8-R	429	GLY	O-C-N	6.55	128.47	122.19
6	1-N	387	LYS	O-C-N	6.54	129.06	122.12
6	2-N	387	LYS	O-C-N	6.54	129.06	122.12
6	3-N	387	LYS	O-C-N	6.54	129.06	122.12
6	4-N	387	LYS	O-C-N	6.54	129.06	122.12
6	5-N	387	LYS	O-C-N	6.54	129.06	122.12
6	6-N	387	LYS	O-C-N	6.54	129.06	122.12
6	7-N	387	LYS	O-C-N	6.54	129.06	122.12
6	8-N	387	LYS	O-C-N	6.54	129.06	122.12
6	1-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	1-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	2-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	2-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	3-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	3-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	4-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	4-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	5-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	5-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	6-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	6-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	7-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	7-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
6	8-T	493	ALA	CA-C-O	-6.54	111.58	119.49
5	8-Y	372	ALA	N-CA-CB	6.54	119.73	110.12
3	1-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	1-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	2-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	2-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	3-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	3-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	4-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	4-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	5-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	5-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	6-D	1493	ARG	N-CA-C	6.54	119.24	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	7-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	7-P	1493	ARG	N-CA-C	6.54	119.24	111.33
3	8-D	1493	ARG	N-CA-C	6.54	119.24	111.33
3	8-P	1493	ARG	N-CA-C	6.54	119.24	111.33
6	1-H	387	LYS	O-C-N	6.54	129.05	122.12
6	2-H	387	LYS	O-C-N	6.54	129.05	122.12
6	3-H	387	LYS	O-C-N	6.54	129.05	122.12
6	4-H	387	LYS	O-C-N	6.54	129.05	122.12
6	5-H	387	LYS	O-C-N	6.54	129.05	122.12
6	6-H	387	LYS	O-C-N	6.54	129.05	122.12
6	7-H	387	LYS	O-C-N	6.54	129.05	122.12
6	8-H	387	LYS	O-C-N	6.54	129.05	122.12
4	1-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	1-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	2-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	2-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	3-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	3-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	4-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	4-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	5-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	5-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	6-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	6-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	7-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	7-X	486	GLU	CB-CA-C	6.53	121.76	110.79
4	8-L	486	GLU	CB-CA-C	6.53	121.76	110.79
4	8-X	486	GLU	CB-CA-C	6.53	121.76	110.79
5	1-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	1-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	1-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	1-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	1-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	2-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	2-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	2-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	2-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	2-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	3-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	3-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	3-R	481	ILE	C-N-CA	-6.52	111.96	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	3-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	4-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	4-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	4-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	4-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	4-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	5-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	5-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	5-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	5-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	5-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	6-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	6-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	6-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	6-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	6-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	7-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	7-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	7-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	7-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	7-U	641	LEU	C-N-CA	6.52	129.02	120.28
5	8-M	372	ALA	N-CA-CB	6.52	119.71	110.12
4	8-R	481	ILE	CA-C-N	-6.52	111.96	120.44
4	8-R	481	ILE	C-N-CA	-6.52	111.96	120.44
2	8-U	641	LEU	CA-C-N	6.52	129.02	120.28
2	8-U	641	LEU	C-N-CA	6.52	129.02	120.28
4	1-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	2-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	3-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	4-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	5-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	6-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	7-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	8-F	486	GLU	CB-CA-C	6.52	121.75	110.79
4	1-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	1-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	2-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	2-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	3-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	3-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	4-F	399	SER	N-CA-CB	-6.52	99.48	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	5-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	5-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	6-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	6-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	7-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	7-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
4	8-F	399	SER	N-CA-CB	-6.52	99.48	110.49
6	8-N	407	LEU	CB-CA-C	-6.52	96.69	110.31
2	1-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	1-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	1-L	429	GLY	O-C-N	6.51	128.44	122.19
4	1-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	2-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	2-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	2-L	429	GLY	O-C-N	6.51	128.44	122.19
4	2-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	3-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	3-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	3-L	429	GLY	O-C-N	6.51	128.44	122.19
4	3-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	4-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	4-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	4-L	429	GLY	O-C-N	6.51	128.44	122.19
4	4-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	5-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	5-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	5-L	429	GLY	O-C-N	6.51	128.44	122.19
4	5-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	6-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	6-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	6-L	429	GLY	O-C-N	6.51	128.44	122.19
4	6-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	7-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	7-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	7-L	429	GLY	O-C-N	6.51	128.44	122.19
4	7-R	486	GLU	CB-CA-C	6.51	121.73	110.79
2	8-I	13	ALA	CA-C-N	6.51	129.30	120.44
2	8-I	13	ALA	C-N-CA	6.51	129.30	120.44
4	8-L	429	GLY	O-C-N	6.51	128.44	122.19
4	8-R	486	GLU	CB-CA-C	6.51	121.73	110.79
5	1-G	372	ALA	N-CA-CB	6.51	119.69	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	2-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	2-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	3-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	3-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	4-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	4-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	5-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	5-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	6-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	6-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	7-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	7-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
5	8-G	372	ALA	N-CA-CB	6.51	119.69	110.12
6	8-H	407	LEU	CB-CA-C	-6.51	96.70	110.31
4	1-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	1-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	2-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	2-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	3-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	3-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	4-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	4-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	5-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	5-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	6-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	6-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	7-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	7-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	8-F	481	ILE	CA-C-N	-6.51	111.98	120.44
4	8-F	481	ILE	C-N-CA	-6.51	111.98	120.44
4	1-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	2-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	3-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	4-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	5-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	6-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	7-L	399	SER	N-CA-CB	-6.50	99.50	110.49
4	8-L	399	SER	N-CA-CB	-6.50	99.50	110.49
2	1-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	1-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	1-S	372	ALA	N-CA-CB	6.50	119.68	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	1-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	1-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	2-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	2-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	2-S	372	ALA	N-CA-CB	6.50	119.68	110.12
2	2-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	2-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	2-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	3-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	3-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	3-S	372	ALA	N-CA-CB	6.50	119.68	110.12
2	3-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	3-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	3-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	4-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	4-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	4-S	372	ALA	N-CA-CB	6.50	119.68	110.12
2	4-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	4-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	4-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	5-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	5-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	5-S	372	ALA	N-CA-CB	6.50	119.68	110.12
2	5-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	5-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	5-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	6-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	6-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	6-S	372	ALA	N-CA-CB	6.50	119.68	110.12
2	6-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	6-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	6-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	7-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	7-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	7-S	372	ALA	N-CA-CB	6.50	119.68	110.12
2	7-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	7-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	7-X	399	SER	N-CA-CB	-6.50	99.50	110.49
2	8-I	641	LEU	CA-C-N	6.50	128.99	120.28
2	8-I	641	LEU	C-N-CA	6.50	128.99	120.28
5	8-S	372	ALA	N-CA-CB	6.50	119.68	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-U	13	ALA	CA-C-N	6.50	129.28	120.44
2	8-U	13	ALA	C-N-CA	6.50	129.28	120.44
4	8-X	399	SER	N-CA-CB	-6.50	99.50	110.49
6	1-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	1-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	2-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	2-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	3-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	3-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	4-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	4-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	5-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	5-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	6-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	6-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	7-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	7-N	373	THR	C-N-CA	-6.50	108.95	121.94
6	8-N	373	THR	CA-C-N	-6.50	108.95	121.94
6	8-N	373	THR	C-N-CA	-6.50	108.95	121.94
2	1-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	1-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	2-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	2-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	3-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	3-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	4-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	4-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	5-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	5-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	6-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	6-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	7-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	7-O	641	LEU	C-N-CA	6.50	128.98	120.28
2	8-O	641	LEU	CA-C-N	6.50	128.98	120.28
2	8-O	641	LEU	C-N-CA	6.50	128.98	120.28
5	1-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	1-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	1-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	1-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	1-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	2-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	2-R	399	SER	N-CA-CB	-6.49	99.52	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	2-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	2-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	3-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	3-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	3-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	3-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	3-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	4-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	4-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	4-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	4-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	4-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	5-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	5-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	5-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	5-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	5-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	6-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	6-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	6-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	6-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	6-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	7-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	7-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	7-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	7-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	7-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
5	8-M	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	8-R	399	SER	N-CA-CB	-6.49	99.52	110.49
5	8-S	346	PHE	CB-CA-C	-6.49	100.64	110.90
6	8-Z	407	LEU	CB-CA-C	-6.49	96.74	110.31
6	8-Z	472	GLN	N-CA-C	-6.49	104.84	112.89
4	1-X	429	GLY	O-C-N	6.49	128.42	122.19
4	2-X	429	GLY	O-C-N	6.49	128.42	122.19
4	3-X	429	GLY	O-C-N	6.49	128.42	122.19
4	4-X	429	GLY	O-C-N	6.49	128.42	122.19
4	5-X	429	GLY	O-C-N	6.49	128.42	122.19
4	6-X	429	GLY	O-C-N	6.49	128.42	122.19
4	7-X	429	GLY	O-C-N	6.49	128.42	122.19
4	8-X	429	GLY	O-C-N	6.49	128.42	122.19
2	1-C	641	LEU	CA-C-N	6.49	128.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	2-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	2-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	3-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	3-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	4-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	4-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	5-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	5-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	6-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	6-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	7-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	7-C	641	LEU	C-N-CA	6.49	128.98	120.28
2	8-C	641	LEU	CA-C-N	6.49	128.98	120.28
2	8-C	641	LEU	C-N-CA	6.49	128.98	120.28
5	1-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	2-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	3-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	4-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	5-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	6-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	7-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
5	8-G	346	PHE	CB-CA-C	-6.49	100.65	110.90
4	1-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	1-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	1-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	1-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	1-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	1-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	1-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	2-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	2-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	2-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	2-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	2-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	2-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	2-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	3-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	3-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	3-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	3-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	3-L	481	ILE	C-N-CA	-6.48	112.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	3-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	4-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	4-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	4-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	4-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	4-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	4-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	4-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	5-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	5-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	5-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	5-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	5-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	5-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	5-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	6-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	6-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	6-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	6-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	6-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	6-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	6-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	7-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	7-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	7-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	7-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	7-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	7-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	7-Z	373	THR	C-N-CA	-6.48	108.97	121.94
4	8-F	290	PRO	N-CA-C	6.48	128.30	112.10
6	8-H	373	THR	CA-C-N	-6.48	108.97	121.94
6	8-H	373	THR	C-N-CA	-6.48	108.97	121.94
4	8-L	481	ILE	CA-C-N	-6.48	112.01	120.44
4	8-L	481	ILE	C-N-CA	-6.48	112.01	120.44
6	8-Z	373	THR	CA-C-N	-6.48	108.97	121.94
6	8-Z	373	THR	C-N-CA	-6.48	108.97	121.94
2	1-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	1-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	2-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	2-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	3-C	13	ALA	CA-C-N	6.48	129.25	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	4-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	4-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	5-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	5-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	6-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	6-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	7-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	7-C	13	ALA	C-N-CA	6.48	129.25	120.44
2	8-C	13	ALA	CA-C-N	6.48	129.25	120.44
2	8-C	13	ALA	C-N-CA	6.48	129.25	120.44
6	1-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	1-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	2-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	2-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	3-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	3-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	4-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	4-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	5-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	5-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	6-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	6-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	7-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	7-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	8-T	407	LEU	CB-CA-C	-6.48	96.77	110.31
4	8-X	290	PRO	N-CA-C	6.48	128.30	112.10
6	1-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	1-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	1-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	1-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	1-R	290	PRO	N-CA-C	6.48	128.29	112.10
6	2-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	2-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	2-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	2-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	2-R	290	PRO	N-CA-C	6.48	128.29	112.10
6	3-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	3-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	3-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	3-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	3-R	290	PRO	N-CA-C	6.48	128.29	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	4-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	4-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	4-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	4-R	290	PRO	N-CA-C	6.48	128.29	112.10
6	5-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	5-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	5-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	5-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	5-R	290	PRO	N-CA-C	6.48	128.29	112.10
6	6-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	6-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	6-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	6-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	6-R	290	PRO	N-CA-C	6.48	128.29	112.10
6	7-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	7-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	7-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	7-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	7-R	290	PRO	N-CA-C	6.48	128.29	112.10
6	8-N	420	THR	CA-C-O	-6.48	113.56	120.42
6	8-N	472	GLN	N-CA-C	-6.48	104.86	112.89
2	8-O	13	ALA	CA-C-N	6.48	129.25	120.44
2	8-O	13	ALA	C-N-CA	6.48	129.25	120.44
4	8-R	290	PRO	N-CA-C	6.48	128.29	112.10
4	1-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	1-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	2-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	2-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	3-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	3-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	4-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	4-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	5-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	5-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	6-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	6-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	7-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	7-T	472	GLN	N-CA-C	-6.47	104.86	112.89
4	8-L	290	PRO	N-CA-C	6.47	128.28	112.10
6	8-T	472	GLN	N-CA-C	-6.47	104.86	112.89
6	1-H	472	GLN	N-CA-C	-6.47	104.87	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	472	GLN	N-CA-C	-6.47	104.87	112.89
6	3-H	472	GLN	N-CA-C	-6.47	104.87	112.89
6	4-H	472	GLN	N-CA-C	-6.47	104.87	112.89
6	5-H	472	GLN	N-CA-C	-6.47	104.87	112.89
6	6-H	472	GLN	N-CA-C	-6.47	104.87	112.89
6	7-H	472	GLN	N-CA-C	-6.47	104.87	112.89
6	8-H	472	GLN	N-CA-C	-6.47	104.87	112.89
4	1-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	1-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	1-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	2-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	2-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	2-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	3-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	3-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	3-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	4-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	4-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	4-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	5-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	5-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	5-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	6-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	6-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	6-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	7-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	7-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	7-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
4	8-X	481	ILE	CA-C-N	-6.47	112.03	120.44
4	8-X	481	ILE	C-N-CA	-6.47	112.03	120.44
5	8-Y	346	PHE	CB-CA-C	-6.47	100.68	110.90
2	1-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	2-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	3-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	4-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	5-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	6-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	7-U	755	ILE	N-CA-C	-6.46	104.03	110.62
2	8-U	755	ILE	N-CA-C	-6.46	104.03	110.62
3	1-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	1-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	2-D	1484	ASP	CA-C-N	6.46	133.88	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	3-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	3-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	4-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	4-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	5-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	5-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	6-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	6-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	7-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	7-D	1484	ASP	C-N-CA	6.46	133.88	121.54
3	8-D	1484	ASP	CA-C-N	6.46	133.88	121.54
3	8-D	1484	ASP	C-N-CA	6.46	133.88	121.54
4	1-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	2-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	3-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	4-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	5-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	6-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	7-R	416	THR	N-CA-CB	6.46	119.38	110.01
4	8-R	416	THR	N-CA-CB	6.46	119.38	110.01
3	1-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	1-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	1-T	420	THR	CA-C-O	-6.46	113.58	120.42
3	2-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	2-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	2-T	420	THR	CA-C-O	-6.46	113.58	120.42
3	3-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	3-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	3-T	420	THR	CA-C-O	-6.46	113.58	120.42
3	4-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	4-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	4-T	420	THR	CA-C-O	-6.46	113.58	120.42
3	5-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	5-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	5-T	420	THR	CA-C-O	-6.46	113.58	120.42
3	6-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	6-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	6-T	420	THR	CA-C-O	-6.46	113.58	120.42
3	7-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	7-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	7-T	420	THR	CA-C-O	-6.46	113.58	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-P	1484	ASP	CA-C-N	6.46	133.88	121.54
3	8-P	1484	ASP	C-N-CA	6.46	133.88	121.54
6	8-T	420	THR	CA-C-O	-6.46	113.58	120.42
6	1-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	1-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	1-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	1-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	1-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	2-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	2-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	2-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	2-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	2-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	3-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	3-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	3-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	3-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	3-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	4-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	4-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	4-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	4-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	4-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	5-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	5-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	5-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	5-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	5-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	6-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	6-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	6-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	6-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	6-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	7-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	7-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	7-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	7-V	1484	ASP	C-N-CA	6.45	133.87	121.54
4	7-X	416	THR	N-CA-CB	6.45	119.37	110.01
6	8-T	373	THR	CA-C-N	-6.45	109.03	121.94
6	8-T	373	THR	C-N-CA	-6.45	109.03	121.94
3	8-V	1484	ASP	CA-C-N	6.45	133.87	121.54
3	8-V	1484	ASP	C-N-CA	6.45	133.87	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	416	THR	N-CA-CB	6.45	119.37	110.01
4	1-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	1-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	1-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	1-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	2-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	2-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	2-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	2-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	3-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	3-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	3-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	3-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	4-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	4-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	4-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	4-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	5-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	5-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	5-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	5-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	6-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	6-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	6-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	6-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	7-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	7-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	7-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	7-L	416	THR	N-CA-CB	6.45	119.36	110.01
4	8-F	396	GLN	O-C-N	-6.45	115.12	122.09
3	8-J	1484	ASP	CA-C-N	6.45	133.86	121.54
3	8-J	1484	ASP	C-N-CA	6.45	133.86	121.54
4	8-L	416	THR	N-CA-CB	6.45	119.36	110.01
6	1-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	2-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	3-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	4-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	5-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	6-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	7-H	420	THR	CA-C-O	-6.45	113.58	120.42
6	8-H	420	THR	CA-C-O	-6.45	113.58	120.42
4	1-F	416	THR	N-CA-CB	6.45	119.36	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	3-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	4-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	5-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	6-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	7-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	8-F	416	THR	N-CA-CB	6.45	119.36	110.01
4	1-F	429	GLY	O-C-N	6.44	128.38	122.19
5	1-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	2-F	429	GLY	O-C-N	6.44	128.38	122.19
5	2-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	3-F	429	GLY	O-C-N	6.44	128.38	122.19
5	3-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	4-F	429	GLY	O-C-N	6.44	128.38	122.19
5	4-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	5-F	429	GLY	O-C-N	6.44	128.38	122.19
5	5-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	6-F	429	GLY	O-C-N	6.44	128.38	122.19
5	6-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	7-F	429	GLY	O-C-N	6.44	128.38	122.19
5	7-Y	253	GLN	CA-C-O	6.44	127.39	120.24
4	8-F	429	GLY	O-C-N	6.44	128.38	122.19
5	8-Y	253	GLN	CA-C-O	6.44	127.39	120.24
6	1-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	2-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	3-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	4-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	5-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	6-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	7-Z	420	THR	CA-C-O	-6.44	113.59	120.42
6	8-Z	420	THR	CA-C-O	-6.44	113.59	120.42
5	1-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	2-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	3-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	4-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	5-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	6-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	7-G	253	GLN	CA-C-O	6.43	127.37	120.24
5	8-G	253	GLN	CA-C-O	6.43	127.37	120.24
2	1-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	1-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	1-D	1529	LEU	C-N-CA	-6.42	111.30	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	2-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	2-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	2-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	2-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	3-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	3-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	3-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	3-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	4-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	4-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	4-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	4-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	5-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	5-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	5-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	5-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	6-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	6-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	6-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	6-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	7-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	7-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	7-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	7-S	253	GLN	CA-C-O	6.42	127.37	120.24
2	8-C	755	ILE	N-CA-C	-6.42	104.07	110.62
3	8-D	1529	LEU	CA-C-N	-6.42	111.30	120.42
3	8-D	1529	LEU	C-N-CA	-6.42	111.30	120.42
5	8-S	253	GLN	CA-C-O	6.42	127.37	120.24
4	1-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	1-S	275	MET	CA-C-N	6.41	133.79	121.54
5	1-S	275	MET	C-N-CA	6.41	133.79	121.54
4	1-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	2-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	2-S	275	MET	CA-C-N	6.41	133.79	121.54
5	2-S	275	MET	C-N-CA	6.41	133.79	121.54
4	2-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	3-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	3-S	275	MET	CA-C-N	6.41	133.79	121.54
5	3-S	275	MET	C-N-CA	6.41	133.79	121.54
4	3-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	4-R	396	GLN	O-C-N	-6.41	115.16	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	275	MET	CA-C-N	6.41	133.79	121.54
5	4-S	275	MET	C-N-CA	6.41	133.79	121.54
4	4-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	5-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	5-S	275	MET	CA-C-N	6.41	133.79	121.54
5	5-S	275	MET	C-N-CA	6.41	133.79	121.54
4	5-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	6-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	6-S	275	MET	CA-C-N	6.41	133.79	121.54
5	6-S	275	MET	C-N-CA	6.41	133.79	121.54
4	6-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	7-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	7-S	275	MET	CA-C-N	6.41	133.79	121.54
5	7-S	275	MET	C-N-CA	6.41	133.79	121.54
4	7-X	471	GLN	CA-C-O	-6.41	113.62	120.42
4	8-R	396	GLN	O-C-N	-6.41	115.16	122.09
5	8-S	275	MET	CA-C-N	6.41	133.79	121.54
5	8-S	275	MET	C-N-CA	6.41	133.79	121.54
4	8-X	471	GLN	CA-C-O	-6.41	113.62	120.42
5	1-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	2-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	3-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	4-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	5-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	6-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	7-M	253	GLN	CA-C-O	6.41	127.36	120.24
5	8-M	253	GLN	CA-C-O	6.41	127.36	120.24
4	1-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	2-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	3-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	4-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	5-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	6-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	7-X	328	VAL	O-C-N	-6.41	114.84	122.66
4	8-X	328	VAL	O-C-N	-6.41	114.84	122.66
2	1-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	1-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	1-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	1-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	2-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	2-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	2-J	1529	LEU	C-N-CA	-6.41	111.32	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	3-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	3-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	3-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	3-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	4-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	4-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	4-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	4-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	5-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	5-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	5-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	5-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	6-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	6-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	6-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	6-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	7-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	7-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	7-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	7-X	396	GLN	O-C-N	-6.41	115.17	122.09
2	8-I	755	ILE	N-CA-C	-6.41	104.08	110.62
3	8-J	1529	LEU	CA-C-N	-6.41	111.32	120.42
3	8-J	1529	LEU	C-N-CA	-6.41	111.32	120.42
4	8-X	396	GLN	O-C-N	-6.41	115.17	122.09
6	1-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	1-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	1-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	2-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	2-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	2-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	3-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	3-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	3-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	4-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	4-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	4-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	5-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	5-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	5-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	6-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	6-N	370	GLU	N-CA-C	-6.41	104.22	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	7-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	7-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	7-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
6	8-H	370	GLU	N-CA-C	-6.41	104.22	111.14
6	8-N	370	GLU	N-CA-C	-6.41	104.22	111.14
6	8-Z	370	GLU	N-CA-C	-6.41	104.22	111.14
2	1-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	1-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	2-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	2-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	3-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	3-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	4-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	4-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	5-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	5-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	6-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	6-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	7-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	7-Y	333	PRO	O-C-N	-6.41	113.99	122.64
2	8-O	755	ILE	N-CA-C	-6.41	104.09	110.62
5	8-Y	333	PRO	O-C-N	-6.41	113.99	122.64
4	1-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	2-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	3-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	4-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	5-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	6-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	7-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	8-F	471	GLN	CA-C-O	-6.40	113.63	120.42
4	1-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	2-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	3-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	4-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	5-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	6-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	7-L	471	GLN	CA-C-O	-6.40	113.64	120.42
4	8-L	471	GLN	CA-C-O	-6.40	113.64	120.42
5	1-M	275	MET	CA-C-N	6.39	133.75	121.54
5	1-M	275	MET	C-N-CA	6.39	133.75	121.54
3	1-P	1529	LEU	CA-C-N	-6.39	111.34	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	2-M	275	MET	CA-C-N	6.39	133.75	121.54
5	2-M	275	MET	C-N-CA	6.39	133.75	121.54
3	2-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	2-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	3-M	275	MET	CA-C-N	6.39	133.75	121.54
5	3-M	275	MET	C-N-CA	6.39	133.75	121.54
3	3-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	3-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	4-M	275	MET	CA-C-N	6.39	133.75	121.54
5	4-M	275	MET	C-N-CA	6.39	133.75	121.54
3	4-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	4-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	5-M	275	MET	CA-C-N	6.39	133.75	121.54
5	5-M	275	MET	C-N-CA	6.39	133.75	121.54
3	5-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	5-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	6-M	275	MET	CA-C-N	6.39	133.75	121.54
5	6-M	275	MET	C-N-CA	6.39	133.75	121.54
3	6-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	6-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	7-M	275	MET	CA-C-N	6.39	133.75	121.54
5	7-M	275	MET	C-N-CA	6.39	133.75	121.54
3	7-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	7-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
5	8-M	275	MET	CA-C-N	6.39	133.75	121.54
5	8-M	275	MET	C-N-CA	6.39	133.75	121.54
3	8-P	1529	LEU	CA-C-N	-6.39	111.34	120.42
3	8-P	1529	LEU	C-N-CA	-6.39	111.34	120.42
3	1-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	2-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	3-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	4-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	5-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	6-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	7-J	1539	LEU	CA-C-O	6.39	127.32	120.10
3	8-J	1539	LEU	CA-C-O	6.39	127.32	120.10
4	1-R	328	VAL	O-C-N	-6.39	114.87	122.66
4	2-R	328	VAL	O-C-N	-6.39	114.87	122.66
4	3-R	328	VAL	O-C-N	-6.39	114.87	122.66
4	4-R	328	VAL	O-C-N	-6.39	114.87	122.66
4	5-R	328	VAL	O-C-N	-6.39	114.87	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-R	328	VAL	O-C-N	-6.39	114.87	122.66
4	7-R	328	VAL	O-C-N	-6.39	114.87	122.66
4	8-R	328	VAL	O-C-N	-6.39	114.87	122.66
5	1-G	275	MET	CA-C-N	6.39	133.74	121.54
5	1-G	275	MET	C-N-CA	6.39	133.74	121.54
3	1-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	1-L	449	SER	N-CA-C	6.39	124.40	110.80
5	2-G	275	MET	CA-C-N	6.39	133.74	121.54
5	2-G	275	MET	C-N-CA	6.39	133.74	121.54
3	2-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	2-L	449	SER	N-CA-C	6.39	124.40	110.80
5	3-G	275	MET	CA-C-N	6.39	133.74	121.54
5	3-G	275	MET	C-N-CA	6.39	133.74	121.54
3	3-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	3-L	449	SER	N-CA-C	6.39	124.40	110.80
5	4-G	275	MET	CA-C-N	6.39	133.74	121.54
5	4-G	275	MET	C-N-CA	6.39	133.74	121.54
3	4-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	4-L	449	SER	N-CA-C	6.39	124.40	110.80
5	5-G	275	MET	CA-C-N	6.39	133.74	121.54
5	5-G	275	MET	C-N-CA	6.39	133.74	121.54
3	5-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	5-L	449	SER	N-CA-C	6.39	124.40	110.80
5	6-G	275	MET	CA-C-N	6.39	133.74	121.54
5	6-G	275	MET	C-N-CA	6.39	133.74	121.54
3	6-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	6-L	449	SER	N-CA-C	6.39	124.40	110.80
5	7-G	275	MET	CA-C-N	6.39	133.74	121.54
5	7-G	275	MET	C-N-CA	6.39	133.74	121.54
3	7-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	7-L	449	SER	N-CA-C	6.39	124.40	110.80
5	8-G	275	MET	CA-C-N	6.39	133.74	121.54
5	8-G	275	MET	C-N-CA	6.39	133.74	121.54
3	8-J	1541	THR	N-CA-C	6.39	122.23	113.16
4	8-L	449	SER	N-CA-C	6.39	124.40	110.80
4	1-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	1-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	1-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	1-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	2-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	2-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	2-Y	275	MET	CA-C-N	6.38	133.73	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	3-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	3-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	3-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	3-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	4-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	4-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	4-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	4-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	5-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	5-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	5-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	5-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	6-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	6-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	6-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	6-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	7-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	7-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	7-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	7-Y	275	MET	C-N-CA	6.38	133.73	121.54
4	8-F	461	ARG	N-CA-CB	6.38	121.28	110.49
6	8-T	370	GLU	N-CA-C	-6.38	104.24	111.14
5	8-Y	275	MET	CA-C-N	6.38	133.73	121.54
5	8-Y	275	MET	C-N-CA	6.38	133.73	121.54
5	1-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	2-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	3-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	4-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	5-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	6-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	7-M	333	PRO	O-C-N	-6.38	114.02	122.64
5	8-M	333	PRO	O-C-N	-6.38	114.02	122.64
4	1-R	449	SER	N-CA-C	6.38	124.39	110.80
3	1-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	1-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
4	2-R	449	SER	N-CA-C	6.38	124.39	110.80
3	2-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	2-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
4	3-R	449	SER	N-CA-C	6.38	124.39	110.80
3	3-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	3-V	1529	LEU	C-N-CA	-6.38	111.36	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	449	SER	N-CA-C	6.38	124.39	110.80
3	4-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	4-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
4	5-R	449	SER	N-CA-C	6.38	124.39	110.80
3	5-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	5-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
4	6-R	449	SER	N-CA-C	6.38	124.39	110.80
3	6-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	6-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
4	7-R	449	SER	N-CA-C	6.38	124.39	110.80
3	7-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	7-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
4	8-R	449	SER	N-CA-C	6.38	124.39	110.80
3	8-V	1529	LEU	CA-C-N	-6.38	111.36	120.42
3	8-V	1529	LEU	C-N-CA	-6.38	111.36	120.42
5	1-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	1-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	1-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	1-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	1-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	2-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	2-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	2-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	2-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	2-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	3-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	3-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	3-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	3-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	3-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	4-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	4-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	4-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	4-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	4-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	5-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	5-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	5-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	5-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	5-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	6-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	6-R	471	GLN	CA-C-O	-6.38	113.66	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	6-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	6-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	7-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	7-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	7-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	7-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	7-V	1543	GLN	CA-C-O	6.38	128.90	120.16
5	8-G	333	PRO	O-C-N	-6.38	114.03	122.64
4	8-R	471	GLN	CA-C-O	-6.38	113.66	120.42
3	8-V	1539	LEU	CA-C-O	6.38	127.31	120.10
3	8-V	1541	THR	N-CA-C	6.38	122.22	113.16
3	8-V	1543	GLN	CA-C-O	6.38	128.90	120.16
3	1-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	1-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	2-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	2-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	3-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	3-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	4-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	4-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	5-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	5-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	6-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	6-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	7-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	7-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	8-D	1543	GLN	CA-C-O	6.38	128.90	120.16
2	8-I	176	SER	N-CA-C	-6.38	104.76	112.54
3	1-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	1-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	2-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	2-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	3-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	3-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	4-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	4-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	5-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	5-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	6-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	6-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	7-J	1543	GLN	CA-C-O	6.38	128.90	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-P	1543	GLN	CA-C-O	6.38	128.90	120.16
3	8-J	1543	GLN	CA-C-O	6.38	128.90	120.16
3	8-P	1543	GLN	CA-C-O	6.38	128.90	120.16
4	1-F	449	SER	N-CA-C	6.37	124.38	110.80
3	1-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	1-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	2-F	449	SER	N-CA-C	6.37	124.38	110.80
3	2-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	2-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	3-F	449	SER	N-CA-C	6.37	124.38	110.80
3	3-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	3-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	4-F	449	SER	N-CA-C	6.37	124.38	110.80
3	4-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	4-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	5-F	449	SER	N-CA-C	6.37	124.38	110.80
3	5-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	5-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	6-F	449	SER	N-CA-C	6.37	124.38	110.80
3	6-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	6-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	7-F	449	SER	N-CA-C	6.37	124.38	110.80
3	7-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	7-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	8-F	449	SER	N-CA-C	6.37	124.38	110.80
3	8-J	1411	GLY	N-CA-C	-6.37	102.59	112.85
5	8-S	333	PRO	O-C-N	-6.37	114.04	122.64
4	1-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	1-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	2-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	2-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	3-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	3-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	4-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	4-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	5-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	5-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	6-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	6-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	7-L	396	GLN	O-C-N	-6.37	115.21	122.09
1	7-W	829	ARG	N-CA-C	6.37	118.52	110.24
4	8-L	396	GLN	O-C-N	-6.37	115.21	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-W	829	ARG	N-CA-C	6.37	118.52	110.24
2	1-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	1-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	1-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	2-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	2-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	2-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	3-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	3-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	3-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	4-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	4-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	4-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	5-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	5-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	5-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	6-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	6-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	6-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	7-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	7-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	7-X	461	ARG	N-CA-CB	6.37	121.25	110.49
2	8-C	808	ASN	N-CA-C	-6.37	106.22	112.97
3	8-D	1541	THR	N-CA-C	6.37	122.21	113.16
4	8-X	461	ARG	N-CA-CB	6.37	121.25	110.49
1	1-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	1-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	1-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	1-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	1-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	1-X	449	SER	N-CA-C	6.37	124.36	110.80
1	2-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	2-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	2-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	2-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	2-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	2-X	449	SER	N-CA-C	6.37	124.36	110.80
1	3-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	3-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	3-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	3-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	3-Q	829	ARG	N-CA-C	6.37	118.52	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	449	SER	N-CA-C	6.37	124.36	110.80
1	4-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	4-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	4-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	4-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	4-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	4-X	449	SER	N-CA-C	6.37	124.36	110.80
1	5-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	5-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	5-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	5-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	5-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	5-X	449	SER	N-CA-C	6.37	124.36	110.80
1	6-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	6-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	6-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	6-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	6-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	6-X	449	SER	N-CA-C	6.37	124.36	110.80
1	7-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	7-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	7-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	7-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	7-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	7-X	449	SER	N-CA-C	6.37	124.36	110.80
1	8-E	829	ARG	N-CA-C	6.37	118.52	110.24
1	8-K	829	ARG	N-CA-C	6.37	118.52	110.24
3	8-P	1411	GLY	N-CA-C	-6.37	102.60	112.85
3	8-P	1539	LEU	CA-C-O	6.37	127.30	120.10
1	8-Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	8-X	449	SER	N-CA-C	6.37	124.36	110.80
6	1-H	445	LYS	O-C-N	6.37	128.87	122.12
4	1-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	2-H	445	LYS	O-C-N	6.37	128.87	122.12
4	2-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	3-H	445	LYS	O-C-N	6.37	128.87	122.12
4	3-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	4-H	445	LYS	O-C-N	6.37	128.87	122.12
4	4-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	5-H	445	LYS	O-C-N	6.37	128.87	122.12
4	5-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	6-H	445	LYS	O-C-N	6.37	128.87	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	7-H	445	LYS	O-C-N	6.37	128.87	122.12
4	7-L	461	ARG	N-CA-CB	6.37	121.25	110.49
6	8-H	445	LYS	O-C-N	6.37	128.87	122.12
4	8-L	461	ARG	N-CA-CB	6.37	121.25	110.49
3	1-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	2-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	3-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	4-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	5-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	6-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	7-P	1541	THR	N-CA-C	6.37	122.20	113.16
3	8-P	1541	THR	N-CA-C	6.37	122.20	113.16
2	1-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	2-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	3-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	4-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	5-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	6-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	7-C	176	SER	N-CA-C	-6.36	104.78	112.54
2	8-C	176	SER	N-CA-C	-6.36	104.78	112.54
1	1-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	1-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	1-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	1-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	1-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	1-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	2-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	2-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	2-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	2-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	2-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	2-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	3-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	3-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	3-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	3-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	3-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	3-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	4-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	4-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	4-I	808	ASN	N-CA-C	-6.36	106.23	112.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	4-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	4-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	5-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	5-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	5-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	5-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	5-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	5-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	6-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	6-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	6-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	6-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	6-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	6-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	7-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	7-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	7-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	7-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	7-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	7-U	176	SER	N-CA-C	-6.36	104.78	112.54
1	8-A	829	ARG	N-CA-C	6.36	118.50	110.24
1	8-B	829	ARG	N-CA-C	6.36	118.50	110.24
2	8-I	808	ASN	N-CA-C	-6.36	106.23	112.97
2	8-O	808	ASN	N-CA-C	-6.36	106.23	112.97
4	8-R	461	ARG	N-CA-CB	6.36	121.23	110.49
2	8-U	176	SER	N-CA-C	-6.36	104.78	112.54
3	1-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	2-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	3-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	4-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	5-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	6-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	7-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
3	8-D	1411	GLY	N-CA-C	-6.36	102.62	112.85
6	1-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	1-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	1-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	1-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	1-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	1-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	1-T	445	LYS	O-C-N	6.35	128.85	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	2-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	2-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	2-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	2-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	2-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	2-T	445	LYS	O-C-N	6.35	128.85	122.12
6	3-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	3-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	3-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	3-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	3-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	3-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	3-T	445	LYS	O-C-N	6.35	128.85	122.12
6	4-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	4-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	4-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	4-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	4-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	4-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	4-T	445	LYS	O-C-N	6.35	128.85	122.12
6	5-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	5-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	5-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	5-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	5-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	5-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	5-T	445	LYS	O-C-N	6.35	128.85	122.12
6	6-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	6-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	6-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	6-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	6-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	6-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	6-T	445	LYS	O-C-N	6.35	128.85	122.12
6	7-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	7-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	7-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	7-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	7-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	7-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	7-T	445	LYS	O-C-N	6.35	128.85	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	373	THR	N-CA-C	-6.35	103.98	111.03
3	8-J	1548	LYS	CA-C-N	-6.35	110.65	120.31
3	8-J	1548	LYS	C-N-CA	-6.35	110.65	120.31
6	8-N	486	GLN	CA-C-N	6.35	128.79	120.28
6	8-N	486	GLN	C-N-CA	6.35	128.79	120.28
2	8-O	176	SER	N-CA-C	-6.35	104.79	112.54
6	8-T	445	LYS	O-C-N	6.35	128.85	122.12
4	1-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	1-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	1-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	1-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	2-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	2-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	2-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	2-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	3-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	3-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	3-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	3-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	4-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	4-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	4-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	4-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	5-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	5-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	5-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	5-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	6-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	6-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	6-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	6-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	7-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	7-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	7-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	7-T	486	GLN	C-N-CA	6.35	128.78	120.28
4	8-L	328	VAL	O-C-N	-6.35	114.92	122.66
5	8-M	349	LEU	N-CA-CB	6.35	120.12	110.28
6	8-T	486	GLN	CA-C-N	6.35	128.78	120.28
6	8-T	486	GLN	C-N-CA	6.35	128.78	120.28
3	1-D	1539	LEU	CA-C-O	6.34	127.27	120.10
3	2-D	1539	LEU	CA-C-O	6.34	127.27	120.10
3	3-D	1539	LEU	CA-C-O	6.34	127.27	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1539	LEU	CA-C-O	6.34	127.27	120.10
3	5-D	1539	LEU	CA-C-O	6.34	127.27	120.10
3	6-D	1539	LEU	CA-C-O	6.34	127.27	120.10
3	7-D	1539	LEU	CA-C-O	6.34	127.27	120.10
3	8-D	1539	LEU	CA-C-O	6.34	127.27	120.10
6	1-N	445	LYS	O-C-N	6.34	128.84	122.12
6	2-N	445	LYS	O-C-N	6.34	128.84	122.12
6	3-N	445	LYS	O-C-N	6.34	128.84	122.12
6	4-N	445	LYS	O-C-N	6.34	128.84	122.12
6	5-N	445	LYS	O-C-N	6.34	128.84	122.12
6	6-N	445	LYS	O-C-N	6.34	128.84	122.12
6	7-N	445	LYS	O-C-N	6.34	128.84	122.12
6	8-N	445	LYS	O-C-N	6.34	128.84	122.12
6	1-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	1-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	1-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	2-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	2-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	2-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	3-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	3-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	3-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	4-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	4-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	4-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	5-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	5-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	5-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	6-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	6-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	6-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	7-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	7-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	7-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	8-H	486	GLN	CA-C-N	6.34	128.78	120.28
6	8-H	486	GLN	C-N-CA	6.34	128.78	120.28
3	8-V	1411	GLY	N-CA-C	-6.34	102.64	112.85
6	1-N	373	THR	N-CA-C	-6.34	104.00	111.03
6	2-N	373	THR	N-CA-C	-6.34	104.00	111.03
6	3-N	373	THR	N-CA-C	-6.34	104.00	111.03
6	4-N	373	THR	N-CA-C	-6.34	104.00	111.03
6	5-N	373	THR	N-CA-C	-6.34	104.00	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-N	373	THR	N-CA-C	-6.34	104.00	111.03
6	7-N	373	THR	N-CA-C	-6.34	104.00	111.03
6	8-N	373	THR	N-CA-C	-6.34	104.00	111.03
5	1-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	2-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	3-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	4-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	5-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	6-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	7-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
5	8-Y	349	LEU	N-CA-CB	6.33	120.10	110.28
4	1-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	1-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	2-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	2-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	3-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	3-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	4-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	4-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	5-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	5-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	6-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	6-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	7-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	7-U	808	ASN	N-CA-C	-6.33	106.26	112.97
4	8-F	328	VAL	O-C-N	-6.33	114.93	122.66
2	8-U	808	ASN	N-CA-C	-6.33	106.26	112.97
3	1-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	1-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	1-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	1-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	2-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	2-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	2-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	2-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	3-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	3-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	3-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	3-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	4-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	4-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	4-G	248	PRO	CA-C-N	6.33	127.75	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	5-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	5-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	5-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	5-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	6-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	6-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	6-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	6-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	7-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	7-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	7-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	7-G	248	PRO	C-N-CA	6.33	127.75	119.84
3	8-D	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	8-D	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	8-G	248	PRO	CA-C-N	6.33	127.75	119.84
5	8-G	248	PRO	C-N-CA	6.33	127.75	119.84
5	1-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	1-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	1-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	1-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	1-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	2-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	2-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	2-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	2-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	2-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	3-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	3-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	3-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	3-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	3-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	4-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	4-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	4-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	4-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	4-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	5-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	5-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	5-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	5-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	5-V	1548	LYS	C-N-CA	-6.33	110.69	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	6-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	6-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	6-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	6-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	7-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	7-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	7-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	7-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	7-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
5	8-G	349	LEU	N-CA-CB	6.33	120.09	110.28
5	8-M	248	PRO	CA-C-N	6.33	127.75	119.84
5	8-M	248	PRO	C-N-CA	6.33	127.75	119.84
3	8-V	1548	LYS	CA-C-N	-6.33	110.69	120.31
3	8-V	1548	LYS	C-N-CA	-6.33	110.69	120.31
1	1-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	1-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	1-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	2-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	2-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	2-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	3-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	3-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	3-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	4-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	4-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	4-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	5-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	5-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	5-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	6-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	6-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	6-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	7-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	7-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	7-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
1	8-B	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	8-F	453	TYR	N-CA-CB	6.32	121.18	110.49
1	8-W	849	ASN	CB-CA-C	-6.32	108.63	117.23
6	1-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	1-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	1-Z	486	GLN	C-N-CA	6.32	128.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	2-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	2-Z	486	GLN	C-N-CA	6.32	128.75	120.28
6	3-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	3-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	3-Z	486	GLN	C-N-CA	6.32	128.75	120.28
6	4-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	4-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	4-Z	486	GLN	C-N-CA	6.32	128.75	120.28
6	5-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	5-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	5-Z	486	GLN	C-N-CA	6.32	128.75	120.28
6	6-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	6-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	6-Z	486	GLN	C-N-CA	6.32	128.75	120.28
6	7-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	7-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	7-Z	486	GLN	C-N-CA	6.32	128.75	120.28
6	8-Z	373	THR	N-CA-C	-6.32	104.01	111.03
6	8-Z	486	GLN	CA-C-N	6.32	128.75	120.28
6	8-Z	486	GLN	C-N-CA	6.32	128.75	120.28
3	1-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	1-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	2-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	2-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	3-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	3-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	4-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	4-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	5-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	5-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	6-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	6-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	7-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	7-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
3	8-P	1548	LYS	CA-C-N	-6.32	110.70	120.31
3	8-P	1548	LYS	C-N-CA	-6.32	110.70	120.31
1	1-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	1-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	1-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	1-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	1-S	248	PRO	C-N-CA	6.32	127.74	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	2-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	2-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	2-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	2-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	3-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	3-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	3-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	3-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	3-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	4-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	4-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	4-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	4-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	4-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	5-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	5-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	5-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	5-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	5-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	6-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	6-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	6-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	6-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	6-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	7-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	7-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	7-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	7-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	7-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	8-A	849	ASN	CB-CA-C	-6.32	108.64	117.23
3	8-D	1452	LEU	CB-CA-C	-6.32	100.96	110.88
4	8-R	453	TYR	N-CA-CB	6.32	121.17	110.49
5	8-S	248	PRO	CA-C-N	6.32	127.74	119.84
5	8-S	248	PRO	C-N-CA	6.32	127.74	119.84
1	1-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	2-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	3-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	4-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	5-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	6-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	7-E	849	ASN	CB-CA-C	-6.31	108.64	117.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-E	849	ASN	CB-CA-C	-6.31	108.64	117.23
1	1-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	1-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	2-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	2-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	3-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	3-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	4-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	4-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	5-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	5-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	6-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	6-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	7-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	7-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
1	8-K	849	ASN	CB-CA-C	-6.31	108.65	117.23
3	8-P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
6	1-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	2-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	3-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	4-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	5-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	6-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	7-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	8-N	378	GLU	N-CA-C	-6.31	104.84	112.54
6	1-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	1-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	1-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	1-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	2-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	2-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	2-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	2-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	3-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	3-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	3-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	3-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	4-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	4-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	4-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	4-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	5-H	378	GLU	N-CA-C	-6.31	104.84	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	5-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	5-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	6-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	6-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	6-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	6-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	7-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	7-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	7-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	7-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	8-H	378	GLU	N-CA-C	-6.31	104.84	112.54
6	8-T	412	GLU	CA-C-N	6.31	129.02	120.44
6	8-T	412	GLU	C-N-CA	6.31	129.02	120.44
4	8-X	453	TYR	N-CA-CB	6.31	121.15	110.49
6	1-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	1-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	1-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	1-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	2-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	2-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	2-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	2-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	3-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	3-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	3-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	3-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	4-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	4-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	4-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	4-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	5-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	5-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	5-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	5-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	6-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	6-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	6-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	6-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	7-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	7-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	7-Y	248	PRO	C-N-CA	6.31	127.72	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-Z	445	LYS	O-C-N	6.31	128.81	122.12
6	8-T	373	THR	N-CA-C	-6.31	104.03	111.03
5	8-Y	248	PRO	CA-C-N	6.31	127.72	119.84
5	8-Y	248	PRO	C-N-CA	6.31	127.72	119.84
6	8-Z	445	LYS	O-C-N	6.31	128.81	122.12
5	1-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	1-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	2-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	2-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	3-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	3-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	4-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	4-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	5-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	5-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	6-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	6-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	7-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	7-G	252	CYS	C-N-CA	6.30	131.36	120.58
5	8-G	252	CYS	CA-C-N	6.30	131.36	120.58
5	8-G	252	CYS	C-N-CA	6.30	131.36	120.58
1	1-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	1-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	2-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	2-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	3-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	3-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	4-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	4-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	5-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	5-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	6-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	6-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	7-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	7-L	453	TYR	N-CA-CB	6.30	121.14	110.49
1	8-A	196	GLY	N-CA-C	-6.30	105.99	115.32
4	8-L	453	TYR	N-CA-CB	6.30	121.14	110.49
6	1-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	1-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	1-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	1-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	2-H	412	GLU	CA-C-N	6.30	129.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	2-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	2-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	3-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	3-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	3-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	3-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	4-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	4-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	4-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	4-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	5-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	5-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	5-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	5-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	6-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	6-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	6-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	6-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	7-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	7-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	7-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	7-M	252	CYS	C-N-CA	6.30	131.36	120.58
6	8-H	412	GLU	CA-C-N	6.30	129.01	120.44
6	8-H	412	GLU	C-N-CA	6.30	129.01	120.44
5	8-M	252	CYS	CA-C-N	6.30	131.36	120.58
5	8-M	252	CYS	C-N-CA	6.30	131.36	120.58
1	1-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	1-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	1-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	2-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	2-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	2-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	3-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	3-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	3-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	4-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	4-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	4-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	5-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	5-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	5-Z	378	GLU	N-CA-C	-6.30	104.86	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	6-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	6-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	7-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	7-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	7-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	8-Q	849	ASN	CB-CA-C	-6.30	108.66	117.23
5	8-S	349	LEU	N-CA-CB	6.30	120.04	110.28
6	8-Z	378	GLU	N-CA-C	-6.30	104.86	112.54
1	1-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	1-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	2-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	2-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	3-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	3-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	4-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	4-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	5-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	5-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	6-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	6-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	7-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	7-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	8-B	196	GLY	N-CA-C	-6.30	106.00	115.32
3	8-J	1452	LEU	CB-CA-C	-6.30	101.00	110.88
1	1-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	2-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	3-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	4-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	5-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	6-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	7-K	196	GLY	N-CA-C	-6.29	106.00	115.32
1	8-K	196	GLY	N-CA-C	-6.29	106.00	115.32
5	1-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	1-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	1-W	196	GLY	N-CA-C	-6.29	106.00	115.32
5	2-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	2-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	2-W	196	GLY	N-CA-C	-6.29	106.00	115.32
5	3-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	3-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	3-W	196	GLY	N-CA-C	-6.29	106.00	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	4-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	4-W	196	GLY	N-CA-C	-6.29	106.00	115.32
5	5-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	5-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	5-W	196	GLY	N-CA-C	-6.29	106.00	115.32
5	6-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	6-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	6-W	196	GLY	N-CA-C	-6.29	106.00	115.32
5	7-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	7-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	7-W	196	GLY	N-CA-C	-6.29	106.00	115.32
5	8-S	252	CYS	CA-C-N	6.29	131.34	120.58
5	8-S	252	CYS	C-N-CA	6.29	131.34	120.58
1	8-W	196	GLY	N-CA-C	-6.29	106.00	115.32
4	1-L	367	THR	O-C-N	-6.29	113.78	122.46
4	2-L	367	THR	O-C-N	-6.29	113.78	122.46
4	3-L	367	THR	O-C-N	-6.29	113.78	122.46
4	4-L	367	THR	O-C-N	-6.29	113.78	122.46
4	5-L	367	THR	O-C-N	-6.29	113.78	122.46
4	6-L	367	THR	O-C-N	-6.29	113.78	122.46
4	7-L	367	THR	O-C-N	-6.29	113.78	122.46
4	8-L	367	THR	O-C-N	-6.29	113.78	122.46
6	1-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	1-X	367	THR	O-C-N	-6.29	113.78	122.46
6	2-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	2-X	367	THR	O-C-N	-6.29	113.78	122.46
6	3-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	3-X	367	THR	O-C-N	-6.29	113.78	122.46
6	4-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	4-X	367	THR	O-C-N	-6.29	113.78	122.46
6	5-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	5-X	367	THR	O-C-N	-6.29	113.78	122.46
6	6-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	6-X	367	THR	O-C-N	-6.29	113.78	122.46
6	7-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	7-X	367	THR	O-C-N	-6.29	113.78	122.46
6	8-T	378	GLU	N-CA-C	-6.29	104.87	112.54
4	8-X	367	THR	O-C-N	-6.29	113.78	122.46
1	1-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	1-F	367	THR	O-C-N	-6.28	113.79	122.46
1	2-E	196	GLY	N-CA-C	-6.28	106.02	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	367	THR	O-C-N	-6.28	113.79	122.46
1	3-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	3-F	367	THR	O-C-N	-6.28	113.79	122.46
1	4-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	4-F	367	THR	O-C-N	-6.28	113.79	122.46
1	5-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	5-F	367	THR	O-C-N	-6.28	113.79	122.46
1	6-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	6-F	367	THR	O-C-N	-6.28	113.79	122.46
1	7-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	7-F	367	THR	O-C-N	-6.28	113.79	122.46
1	8-E	196	GLY	N-CA-C	-6.28	106.02	115.32
4	8-F	367	THR	O-C-N	-6.28	113.79	122.46
2	1-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	1-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	1-R	367	THR	O-C-N	-6.28	113.79	122.46
2	2-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	2-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	2-R	367	THR	O-C-N	-6.28	113.79	122.46
2	3-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	3-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	3-R	367	THR	O-C-N	-6.28	113.79	122.46
2	4-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	4-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	4-R	367	THR	O-C-N	-6.28	113.79	122.46
2	5-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	5-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	5-R	367	THR	O-C-N	-6.28	113.79	122.46
2	6-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	6-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	6-R	367	THR	O-C-N	-6.28	113.79	122.46
2	7-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	7-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	7-R	367	THR	O-C-N	-6.28	113.79	122.46
2	8-O	220	ILE	CA-C-N	6.28	128.61	120.44
2	8-O	220	ILE	C-N-CA	6.28	128.61	120.44
4	8-R	367	THR	O-C-N	-6.28	113.79	122.46
3	1-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
3	2-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
3	3-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
3	4-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
3	5-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
3	7-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
3	8-V	1452	LEU	CB-CA-C	-6.28	101.02	110.88
1	1-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	1-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	1-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	2-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	2-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	2-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	3-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	3-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	3-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	4-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	4-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	4-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	5-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	5-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	5-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	6-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	6-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	6-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	7-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	7-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	7-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	8-E	1342	LEU	CB-CA-C	-6.28	100.98	109.71
2	8-U	220	ILE	CA-C-N	6.28	128.60	120.44
2	8-U	220	ILE	C-N-CA	6.28	128.60	120.44
1	1-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	2-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	3-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	4-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	5-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	6-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	7-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
1	8-Q	196	GLY	N-CA-C	-6.28	106.03	115.32
6	1-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	1-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	2-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	2-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	3-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	3-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	4-N	412	GLU	CA-C-N	6.27	128.97	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	5-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	5-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	6-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	6-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	7-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	7-N	412	GLU	C-N-CA	6.27	128.97	120.44
6	8-N	412	GLU	CA-C-N	6.27	128.97	120.44
6	8-N	412	GLU	C-N-CA	6.27	128.97	120.44
1	1-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	2-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	3-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	4-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	5-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	6-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	7-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	8-K	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	1-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	1-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	2-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	2-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	3-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	3-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	4-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	4-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	5-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	5-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	6-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	6-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	7-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	7-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
1	8-Q	1342	LEU	CB-CA-C	-6.27	101.00	109.71
1	8-W	1342	LEU	CB-CA-C	-6.27	100.99	109.71
6	1-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	2-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	3-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	4-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	5-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	6-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	7-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
6	8-N	495	LEU	CB-CA-C	-6.26	100.27	110.79
3	1-D	1684	ALA	CA-C-N	-6.26	111.69	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	1-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	2-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	2-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	2-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	3-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	3-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	3-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	4-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	4-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	4-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	5-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	5-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	5-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	6-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	6-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	6-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	7-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	7-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	7-F	437	GLN	N-CA-CB	6.26	119.09	110.01
3	8-D	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	8-D	1684	ALA	C-N-CA	-6.26	111.69	120.39
4	8-F	437	GLN	N-CA-CB	6.26	119.09	110.01
2	1-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	1-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	1-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	1-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	1-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	2-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	2-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	2-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	2-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	2-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	3-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	3-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	3-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	3-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	3-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	4-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	4-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	4-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	4-V	1684	ALA	C-N-CA	-6.26	111.69	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	5-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	5-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	5-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	5-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	5-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	6-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	6-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	6-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	6-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	6-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	7-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	7-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	7-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	7-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	7-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
2	8-C	220	ILE	CA-C-N	6.26	128.58	120.44
2	8-C	220	ILE	C-N-CA	6.26	128.58	120.44
3	8-V	1684	ALA	CA-C-N	-6.26	111.69	120.39
3	8-V	1684	ALA	C-N-CA	-6.26	111.69	120.39
6	8-Z	495	LEU	CB-CA-C	-6.26	100.28	110.79
6	1-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	1-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	2-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	2-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	3-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	3-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	4-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	4-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	5-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	5-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	6-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	6-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	7-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	7-Z	412	GLU	C-N-CA	6.26	128.95	120.44
6	8-Z	412	GLU	CA-C-N	6.26	128.95	120.44
6	8-Z	412	GLU	C-N-CA	6.26	128.95	120.44
5	1-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	1-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	2-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	2-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	3-Y	252	CYS	CA-C-N	6.26	131.28	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	4-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	4-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	5-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	5-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	6-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	6-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	7-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	7-Y	252	CYS	C-N-CA	6.26	131.28	120.58
5	8-Y	252	CYS	CA-C-N	6.26	131.28	120.58
5	8-Y	252	CYS	C-N-CA	6.26	131.28	120.58
6	1-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	2-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	3-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	4-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	5-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	6-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	7-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
6	8-T	495	LEU	CB-CA-C	-6.25	100.28	110.79
2	1-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	1-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	2-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	2-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	3-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	3-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	4-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	4-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	5-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	5-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	6-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	6-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	7-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	7-I	220	ILE	C-N-CA	6.25	128.57	120.44
2	8-I	220	ILE	CA-C-N	6.25	128.57	120.44
2	8-I	220	ILE	C-N-CA	6.25	128.57	120.44
4	1-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	1-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	1-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	1-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	2-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	2-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	2-Z	341	SER	CA-C-N	-6.25	111.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	3-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	3-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	3-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	3-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	4-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	4-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	4-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	4-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	5-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	5-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	5-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	5-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	6-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	6-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	6-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	6-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	7-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	7-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	7-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	7-Z	341	SER	C-N-CA	-6.25	111.42	120.29
4	8-F	327	MET	CA-C-N	-6.25	114.60	123.10
4	8-F	327	MET	C-N-CA	-6.25	114.60	123.10
6	8-Z	341	SER	CA-C-N	-6.25	111.42	120.29
6	8-Z	341	SER	C-N-CA	-6.25	111.42	120.29
3	1-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	1-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	2-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	2-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	3-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	3-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	4-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	4-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	5-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	5-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	6-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	6-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	7-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	7-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
3	8-P	1684	ALA	CA-C-N	-6.25	111.71	120.39
3	8-P	1684	ALA	C-N-CA	-6.25	111.71	120.39
5	1-S	326	LEU	N-CA-C	6.24	124.10	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	326	LEU	N-CA-C	6.24	124.10	110.80
5	3-S	326	LEU	N-CA-C	6.24	124.10	110.80
5	4-S	326	LEU	N-CA-C	6.24	124.10	110.80
5	5-S	326	LEU	N-CA-C	6.24	124.10	110.80
5	6-S	326	LEU	N-CA-C	6.24	124.10	110.80
5	7-S	326	LEU	N-CA-C	6.24	124.10	110.80
5	8-S	326	LEU	N-CA-C	6.24	124.10	110.80
6	1-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	1-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	1-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	2-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	2-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	2-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	3-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	3-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	3-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	4-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	4-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	4-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	5-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	5-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	5-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	6-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	6-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	6-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	7-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	7-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	7-L	327	MET	C-N-CA	-6.24	114.61	123.10
6	8-H	495	LEU	CB-CA-C	-6.24	100.30	110.79
4	8-L	327	MET	CA-C-N	-6.24	114.61	123.10
4	8-L	327	MET	C-N-CA	-6.24	114.61	123.10
4	1-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	2-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	3-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	4-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	5-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	6-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	7-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	8-R	437	GLN	N-CA-CB	6.24	119.06	110.01
4	1-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	1-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	1-X	437	GLN	N-CA-CB	6.24	119.06	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	1-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	2-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	2-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	2-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	2-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	2-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	3-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	3-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	3-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	3-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	3-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	4-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	4-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	4-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	4-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	4-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	5-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	5-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	5-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	5-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	5-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	6-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	6-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	6-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	6-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	6-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	7-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	7-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	7-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	7-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	7-Y	326	LEU	N-CA-C	6.24	124.09	110.80
4	8-R	327	MET	CA-C-N	-6.24	114.62	123.10
4	8-R	327	MET	C-N-CA	-6.24	114.62	123.10
4	8-X	437	GLN	N-CA-CB	6.24	119.06	110.01
5	8-Y	325	ALA	N-CA-C	6.24	121.12	112.45
5	8-Y	326	LEU	N-CA-C	6.24	124.09	110.80
5	1-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	1-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	1-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	2-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	2-T	341	SER	CA-C-N	-6.24	111.43	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	3-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	3-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	3-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	4-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	4-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	4-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	5-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	5-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	5-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	6-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	6-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	6-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	7-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	7-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	7-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	8-G	326	LEU	N-CA-C	6.24	124.09	110.80
6	8-T	341	SER	CA-C-N	-6.24	111.43	120.29
6	8-T	341	SER	C-N-CA	-6.24	111.43	120.29
5	1-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	2-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	3-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	4-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	5-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	6-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	7-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	8-G	325	ALA	N-CA-C	6.24	121.12	112.45
5	1-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	1-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	1-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	2-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	2-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	2-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	3-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	3-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	3-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	4-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	4-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	4-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	5-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	5-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	5-S	260	LYS	C-N-CA	6.23	128.63	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	6-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	6-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	7-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	7-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	7-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	8-M	326	LEU	N-CA-C	6.23	124.07	110.80
5	8-S	260	LYS	CA-C-N	6.23	128.63	120.28
5	8-S	260	LYS	C-N-CA	6.23	128.63	120.28
5	1-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	1-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	1-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	1-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	1-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	1-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	1-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	2-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	2-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	2-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	2-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	2-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	2-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	2-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	3-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	3-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	3-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	3-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	3-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	3-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	3-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	4-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	4-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	4-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	4-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	4-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	4-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	4-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	5-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	5-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	5-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	5-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	5-M	260	LYS	C-N-CA	6.23	128.63	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	5-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	6-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	6-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	6-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	6-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	6-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	6-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	6-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	7-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	7-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	7-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	7-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	7-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	7-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	7-S	325	ALA	N-CA-C	6.23	121.11	112.45
5	8-G	291	LYS	N-CA-C	-6.23	104.49	111.28
3	8-J	1684	ALA	CA-C-N	-6.23	111.73	120.39
3	8-J	1684	ALA	C-N-CA	-6.23	111.73	120.39
5	8-M	260	LYS	CA-C-N	6.23	128.63	120.28
5	8-M	260	LYS	C-N-CA	6.23	128.63	120.28
3	8-P	1509	GLN	CA-C-O	6.23	127.02	120.42
5	8-S	325	ALA	N-CA-C	6.23	121.11	112.45
6	1-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	1-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	1-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	1-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	2-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	2-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	2-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	2-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	3-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	3-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	3-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	3-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	4-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	4-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	4-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	4-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	5-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	5-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	5-N	419	GLY	CA-C-N	-6.23	111.45	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	6-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	6-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	6-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	6-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	7-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	7-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	7-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	7-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	8-H	412	GLU	N-CA-C	6.23	121.08	111.56
5	8-M	325	ALA	N-CA-C	6.23	121.10	112.45
6	8-N	419	GLY	CA-C-N	-6.23	111.45	120.29
6	8-N	419	GLY	C-N-CA	-6.23	111.45	120.29
6	1-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	1-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	1-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	2-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	2-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	2-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	3-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	3-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	3-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	4-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	4-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	4-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	5-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	5-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	5-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	6-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	6-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	6-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	7-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	7-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	7-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	8-H	341	SER	CA-C-N	-6.22	111.45	120.29
6	8-H	341	SER	C-N-CA	-6.22	111.45	120.29
5	8-S	380	ILE	CB-CA-C	-6.22	101.80	111.26
6	1-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	1-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	1-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	1-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	2-N	341	SER	CA-C-N	-6.22	111.45	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	2-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	2-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	3-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	3-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	3-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	3-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	4-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	4-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	4-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	4-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	5-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	5-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	5-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	5-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	6-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	6-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	6-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	6-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	7-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	7-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	7-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	7-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	8-N	341	SER	CA-C-N	-6.22	111.45	120.29
6	8-N	341	SER	C-N-CA	-6.22	111.45	120.29
4	8-X	327	MET	CA-C-N	-6.22	114.64	123.10
4	8-X	327	MET	C-N-CA	-6.22	114.64	123.10
6	1-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	1-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	2-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	2-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	3-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	3-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	4-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	4-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	5-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	5-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	6-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	6-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	7-Z	406	LEU	O-C-N	-6.22	111.14	122.34
6	7-Z	412	GLU	N-CA-C	6.22	121.08	111.56
6	8-Z	406	LEU	O-C-N	-6.22	111.14	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-Z	412	GLU	N-CA-C	6.22	121.08	111.56
3	1-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	1-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	1-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	1-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	1-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	1-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	2-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	2-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	2-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	2-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	2-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	2-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	3-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	3-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	3-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	3-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	3-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	3-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	4-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	4-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	4-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	4-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	4-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	4-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	5-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	5-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	5-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	5-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	5-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	5-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	6-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	6-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	6-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	6-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	6-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	6-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	7-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	7-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	7-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	7-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	7-T	412	GLU	N-CA-C	6.22	121.08	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1509	GLN	CA-C-O	6.22	127.01	120.42
3	8-D	1509	GLN	CA-C-O	6.22	127.01	120.42
6	8-H	419	GLY	CA-C-N	-6.22	111.46	120.29
6	8-H	419	GLY	C-N-CA	-6.22	111.46	120.29
5	8-M	291	LYS	N-CA-C	-6.22	104.50	111.28
6	8-T	412	GLU	N-CA-C	6.22	121.08	111.56
3	8-V	1509	GLN	CA-C-O	6.22	127.01	120.42
5	1-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	1-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	2-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	2-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	3-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	3-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	4-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	4-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	5-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	5-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	6-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	6-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	7-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	7-S	291	LYS	N-CA-C	-6.22	104.50	111.28
5	8-M	380	ILE	CB-CA-C	-6.22	101.81	111.26
5	8-S	291	LYS	N-CA-C	-6.22	104.50	111.28
6	1-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	2-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	3-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	4-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	5-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	6-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	7-H	391	GLN	N-CA-CB	6.22	119.79	110.22
6	8-H	391	GLN	N-CA-CB	6.22	119.79	110.22
3	1-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	1-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	1-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	2-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	2-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	2-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	3-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	3-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	3-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	4-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	4-L	437	GLN	N-CA-CB	6.21	119.02	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	5-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	5-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	5-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	6-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	6-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	6-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	7-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	7-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	7-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
3	8-J	1509	GLN	CA-C-O	6.21	127.01	120.42
4	8-L	437	GLN	N-CA-CB	6.21	119.02	110.01
6	8-Z	391	GLN	N-CA-CB	6.21	119.79	110.22
5	1-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	1-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	2-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	2-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	3-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	3-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	4-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	4-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	5-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	5-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	6-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	6-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	7-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	7-G	260	LYS	C-N-CA	6.21	128.60	120.28
5	8-G	260	LYS	CA-C-N	6.21	128.60	120.28
5	8-G	260	LYS	C-N-CA	6.21	128.60	120.28
6	1-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	1-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	1-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	2-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	2-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	2-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	3-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	3-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	3-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	4-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	4-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	4-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	5-N	412	GLU	N-CA-C	6.21	121.06	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	5-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	6-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	6-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	6-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	7-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	7-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	7-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
6	8-N	412	GLU	N-CA-C	6.21	121.06	111.56
6	8-Z	419	GLY	CA-C-N	-6.21	111.47	120.29
6	8-Z	419	GLY	C-N-CA	-6.21	111.47	120.29
4	1-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	1-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	2-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	2-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	3-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	3-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	4-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	4-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	5-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	5-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	6-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	6-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	7-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	7-X	492	GLU	C-N-CA	-6.21	110.52	121.70
4	8-X	492	GLU	CA-C-N	-6.21	110.52	121.70
4	8-X	492	GLU	C-N-CA	-6.21	110.52	121.70
6	1-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	2-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	3-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	4-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	5-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	6-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	7-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	8-N	391	GLN	N-CA-CB	6.21	119.78	110.22
6	1-N	406	LEU	O-C-N	-6.21	111.17	122.34
6	2-N	406	LEU	O-C-N	-6.21	111.17	122.34
6	3-N	406	LEU	O-C-N	-6.21	111.17	122.34
6	4-N	406	LEU	O-C-N	-6.21	111.17	122.34
6	5-N	406	LEU	O-C-N	-6.21	111.17	122.34
6	6-N	406	LEU	O-C-N	-6.21	111.17	122.34
6	7-N	406	LEU	O-C-N	-6.21	111.17	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	406	LEU	O-C-N	-6.21	111.17	122.34
2	1-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	1-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	1-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	1-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	1-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	2-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	2-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	2-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	2-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	2-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	3-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	3-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	3-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	3-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	3-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	4-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	4-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	4-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	4-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	4-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	5-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	5-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	5-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	5-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	5-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	6-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	6-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	6-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	6-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	6-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	7-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	7-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	7-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	7-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	7-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
2	8-I	405	GLU	CA-C-N	-6.20	110.80	121.97
2	8-I	405	GLU	C-N-CA	-6.20	110.80	121.97
4	8-L	492	GLU	CA-C-N	-6.20	110.53	121.70
4	8-L	492	GLU	C-N-CA	-6.20	110.53	121.70
5	8-Y	380	ILE	CB-CA-C	-6.20	101.83	111.26
4	1-R	399	SER	N-CA-C	-6.20	97.59	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	2-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	2-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	3-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	3-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	4-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	4-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	5-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	5-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	6-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	6-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	7-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	7-S	313	ILE	CB-CA-C	6.20	119.91	111.97
4	8-R	399	SER	N-CA-C	-6.20	97.59	110.80
5	8-S	313	ILE	CB-CA-C	6.20	119.91	111.97
5	1-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	1-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	1-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	2-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	2-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	2-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	3-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	3-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	3-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	4-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	4-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	4-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	5-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	5-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	5-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	6-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	6-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	6-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	7-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	7-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	7-M	313	ILE	CB-CA-C	6.20	119.91	111.97
5	8-M	256	GLU	CA-C-N	6.20	128.87	120.44
5	8-M	256	GLU	C-N-CA	6.20	128.87	120.44
5	8-M	313	ILE	CB-CA-C	6.20	119.91	111.97
2	1-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	1-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	1-I	340	ARG	CA-C-N	6.20	128.87	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	1-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	1-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	1-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	2-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	2-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	2-I	340	ARG	CA-C-N	6.20	128.87	120.38
2	2-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	2-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	2-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	2-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	3-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	3-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	3-I	340	ARG	CA-C-N	6.20	128.87	120.38
2	3-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	3-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	3-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	3-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	4-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	4-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	4-I	340	ARG	CA-C-N	6.20	128.87	120.38
2	4-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	4-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	4-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	4-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	5-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	5-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	5-I	340	ARG	CA-C-N	6.20	128.87	120.38
2	5-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	5-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	5-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	5-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	6-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	6-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	6-I	340	ARG	CA-C-N	6.20	128.87	120.38
2	6-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	6-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	6-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	6-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	7-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	7-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	7-I	340	ARG	CA-C-N	6.20	128.87	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	7-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	7-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	7-S	256	GLU	C-N-CA	6.20	128.87	120.44
2	8-C	405	GLU	CA-C-N	-6.20	110.81	121.97
2	8-C	405	GLU	C-N-CA	-6.20	110.81	121.97
2	8-I	340	ARG	CA-C-N	6.20	128.87	120.38
2	8-I	340	ARG	C-N-CA	6.20	128.87	120.38
1	8-Q	1354	LEU	N-CA-C	-6.20	102.84	110.65
5	8-S	256	GLU	CA-C-N	6.20	128.87	120.44
5	8-S	256	GLU	C-N-CA	6.20	128.87	120.44
1	1-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	1-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	2-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	2-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	3-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	3-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	4-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	4-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	5-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	5-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	6-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	6-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	7-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	7-X	399	SER	N-CA-C	-6.20	97.60	110.80
1	8-W	1354	LEU	N-CA-C	-6.20	102.84	110.65
4	8-X	399	SER	N-CA-C	-6.20	97.60	110.80
6	1-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	1-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	1-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	1-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	1-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
6	2-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	2-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	2-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	2-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	2-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
6	3-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	3-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	3-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	3-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	3-Y	291	LYS	N-CA-C	-6.20	104.53	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	4-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	4-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	4-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	4-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
6	5-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	5-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	5-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	5-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	5-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
6	6-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	6-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	6-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	6-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	6-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
6	7-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	7-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	7-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	7-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	7-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
6	8-T	391	GLN	N-CA-CB	6.20	119.76	110.22
6	8-T	406	LEU	O-C-N	-6.20	111.19	122.34
6	8-T	419	GLY	CA-C-N	-6.20	111.49	120.29
6	8-T	419	GLY	C-N-CA	-6.20	111.49	120.29
5	8-Y	291	LYS	N-CA-C	-6.20	104.53	111.28
4	1-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	1-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	1-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	1-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	1-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	2-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	2-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	2-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	2-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	2-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	3-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	3-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	3-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	3-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	3-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	4-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	4-F	492	GLU	C-N-CA	-6.19	110.55	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	4-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	4-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	5-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	5-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	5-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	5-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	5-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	6-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	6-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	6-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	6-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	6-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	7-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	7-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	7-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	7-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	7-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	8-F	492	GLU	CA-C-N	-6.19	110.55	121.70
4	8-F	492	GLU	C-N-CA	-6.19	110.55	121.70
6	8-H	406	LEU	O-C-N	-6.19	111.19	122.34
4	8-R	492	GLU	CA-C-N	-6.19	110.55	121.70
4	8-R	492	GLU	C-N-CA	-6.19	110.55	121.70
4	1-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	1-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	1-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	1-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	2-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	2-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	2-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	2-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	3-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	3-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	3-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	3-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	4-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	4-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	4-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	4-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	5-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	5-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	5-O	405	GLU	C-N-CA	-6.19	110.83	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	6-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	6-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	6-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	6-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	7-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	7-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	7-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	7-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	8-L	399	SER	N-CA-C	-6.19	97.61	110.80
2	8-O	405	GLU	CA-C-N	-6.19	110.83	121.97
2	8-O	405	GLU	C-N-CA	-6.19	110.83	121.97
5	8-Y	313	ILE	CB-CA-C	6.19	119.89	111.97
4	1-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	1-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	1-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	1-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	1-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	1-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	1-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	2-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	2-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	2-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	2-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	2-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	2-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	2-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	3-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	3-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	3-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	3-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	3-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	3-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	3-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	4-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	4-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	4-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	4-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	4-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	4-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	4-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	5-F	399	SER	N-CA-C	-6.19	97.62	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	5-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	5-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	5-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	5-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	5-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	6-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	6-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	6-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	6-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	6-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	6-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	6-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	7-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	7-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	7-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	7-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	7-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	7-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	7-W	801	HIS	C-N-CA	6.19	133.36	121.54
4	8-F	399	SER	N-CA-C	-6.19	97.62	110.80
5	8-G	256	GLU	CA-C-N	6.19	128.86	120.44
5	8-G	256	GLU	C-N-CA	6.19	128.86	120.44
2	8-U	405	GLU	CA-C-N	-6.19	110.83	121.97
2	8-U	405	GLU	C-N-CA	-6.19	110.83	121.97
1	8-W	801	HIS	CA-C-N	6.19	133.36	121.54
1	8-W	801	HIS	C-N-CA	6.19	133.36	121.54
5	1-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	1-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	1-Y	256	GLU	C-N-CA	6.19	128.86	120.44
5	2-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	2-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	2-Y	256	GLU	C-N-CA	6.19	128.86	120.44
5	3-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	3-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	3-Y	256	GLU	C-N-CA	6.19	128.86	120.44
5	4-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	4-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	4-Y	256	GLU	C-N-CA	6.19	128.86	120.44
5	5-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	5-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	5-Y	256	GLU	C-N-CA	6.19	128.86	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	6-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	6-Y	256	GLU	C-N-CA	6.19	128.86	120.44
5	7-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	7-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	7-Y	256	GLU	C-N-CA	6.19	128.86	120.44
5	8-G	313	ILE	CB-CA-C	6.19	119.89	111.97
5	8-Y	256	GLU	CA-C-N	6.19	128.86	120.44
5	8-Y	256	GLU	C-N-CA	6.19	128.86	120.44
1	1-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	2-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	3-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	4-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	5-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	6-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	7-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
1	8-E	1354	LEU	N-CA-C	-6.19	102.86	110.65
3	1-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	1-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	1-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	2-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	2-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	2-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	3-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	3-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	3-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	4-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	4-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	4-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	5-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	5-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	5-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	6-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	6-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	6-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	7-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	7-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	7-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
3	8-J	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	8-K	1354	LEU	N-CA-C	-6.18	102.86	110.65
3	8-P	1508	LYS	N-CA-C	-6.18	97.63	110.80
1	1-Q	801	HIS	CA-C-N	6.18	133.35	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	2-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	2-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	3-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	3-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	4-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	4-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	5-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	5-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	6-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	6-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	7-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	7-Q	801	HIS	C-N-CA	6.18	133.35	121.54
1	8-Q	801	HIS	CA-C-N	6.18	133.35	121.54
1	8-Q	801	HIS	C-N-CA	6.18	133.35	121.54
2	1-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	1-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	2-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	2-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	3-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	3-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	4-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	4-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	5-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	5-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	6-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	6-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	7-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	7-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
2	8-C	306	PRO	N-CA-C	6.18	125.20	112.47
3	8-V	1492	GLY	CA-C-O	-6.18	112.36	119.65
5	1-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	1-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	2-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	2-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	3-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	3-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	4-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	4-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	5-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	5-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	6-Y	260	LYS	CA-C-N	6.18	128.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	7-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	7-Y	260	LYS	C-N-CA	6.18	128.56	120.28
5	8-Y	260	LYS	CA-C-N	6.18	128.56	120.28
5	8-Y	260	LYS	C-N-CA	6.18	128.56	120.28
1	1-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	1-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	2-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	2-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	3-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	3-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	4-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	4-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	5-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	5-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	6-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	6-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	7-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	7-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	8-A	801	HIS	CA-C-N	6.18	133.34	121.54
1	8-A	801	HIS	C-N-CA	6.18	133.34	121.54
1	1-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	1-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	2-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	2-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	3-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	3-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	4-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	4-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	5-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	5-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	6-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	6-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	7-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	7-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	8-B	801	HIS	CA-C-N	6.17	133.34	121.54
1	8-B	801	HIS	C-N-CA	6.17	133.34	121.54
1	1-K	102	CYS	N-CA-C	6.17	119.20	111.24
1	2-K	102	CYS	N-CA-C	6.17	119.20	111.24
1	3-K	102	CYS	N-CA-C	6.17	119.20	111.24
1	4-K	102	CYS	N-CA-C	6.17	119.20	111.24
1	5-K	102	CYS	N-CA-C	6.17	119.20	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-K	102	CYS	N-CA-C	6.17	119.20	111.24
1	7-K	102	CYS	N-CA-C	6.17	119.20	111.24
1	8-K	102	CYS	N-CA-C	6.17	119.20	111.24
2	1-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	1-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	1-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	2-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	2-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	2-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	3-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	3-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	3-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	4-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	4-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	4-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	5-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	5-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	5-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	6-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	6-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	6-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	7-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	7-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	7-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	8-I	306	PRO	N-CA-C	6.17	125.18	112.47
2	8-O	340	ARG	CA-C-N	6.17	128.84	120.38
2	8-O	340	ARG	C-N-CA	6.17	128.84	120.38
2	1-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	2-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	3-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	4-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	5-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	6-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	7-U	306	PRO	N-CA-C	6.17	125.18	112.47
2	8-U	306	PRO	N-CA-C	6.17	125.18	112.47
1	1-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	1-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	1-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	2-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	2-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	2-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	3-B	102	CYS	N-CA-C	6.17	119.20	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	3-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	4-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	4-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	4-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	5-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	5-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	5-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	6-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	6-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	6-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	7-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	7-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	7-C	340	ARG	C-N-CA	6.17	128.83	120.38
1	8-B	102	CYS	N-CA-C	6.17	119.20	111.24
2	8-C	340	ARG	CA-C-N	6.17	128.83	120.38
2	8-C	340	ARG	C-N-CA	6.17	128.83	120.38
3	1-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	1-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	1-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	2-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	2-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	2-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	3-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	3-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	3-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	4-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	4-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	4-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	5-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	5-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	5-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	6-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	6-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	6-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	7-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	7-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	7-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
3	8-D	1492	GLY	CA-C-O	-6.17	112.37	119.65
2	8-O	306	PRO	N-CA-C	6.17	125.17	112.47
3	8-P	1492	GLY	CA-C-O	-6.17	112.37	119.65
1	1-A	102	CYS	N-CA-C	6.16	119.19	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	1-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	2-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	2-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	2-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	3-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	3-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	3-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	4-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	4-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	4-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	5-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	5-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	5-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	6-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	6-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	6-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	7-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	7-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	7-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	8-A	102	CYS	N-CA-C	6.16	119.19	111.24
6	8-H	474	ILE	O-C-N	-6.16	115.89	121.87
3	8-V	1508	LYS	N-CA-C	-6.16	97.67	110.80
1	1-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	1-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	1-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	1-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	2-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	2-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	2-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	2-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	3-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	3-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	3-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	3-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	4-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	4-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	4-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	4-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	5-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	5-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	5-E	102	CYS	N-CA-C	6.16	119.19	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	6-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	6-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	6-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	6-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	7-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	7-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	7-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	7-Z	474	ILE	O-C-N	-6.16	115.89	121.87
1	8-A	855	ILE	N-CA-CB	6.16	118.92	110.54
3	8-D	1508	LYS	N-CA-C	-6.16	97.68	110.80
1	8-E	102	CYS	N-CA-C	6.16	119.19	111.24
6	8-Z	474	ILE	O-C-N	-6.16	115.89	121.87
3	1-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	1-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	1-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	2-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	2-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	2-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	3-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	3-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	3-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	4-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	4-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	4-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	5-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	5-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	5-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	6-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	6-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	6-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	7-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	7-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	7-K	801	HIS	C-N-CA	6.16	133.30	121.54
3	8-J	1492	GLY	CA-C-O	-6.16	112.38	119.65
1	8-K	801	HIS	CA-C-N	6.16	133.30	121.54
1	8-K	801	HIS	C-N-CA	6.16	133.30	121.54
1	1-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	1-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	1-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	2-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	2-E	801	HIS	C-N-CA	6.16	133.30	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	3-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	3-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	3-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	4-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	4-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	4-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	5-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	5-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	5-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	6-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	6-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	6-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	7-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	7-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	7-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	8-E	801	HIS	CA-C-N	6.16	133.30	121.54
1	8-E	801	HIS	C-N-CA	6.16	133.30	121.54
1	8-Q	102	CYS	N-CA-C	6.16	119.18	111.24
1	1-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	2-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	3-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	4-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	5-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	6-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	7-W	855	ILE	N-CA-CB	6.15	118.91	110.54
1	8-W	855	ILE	N-CA-CB	6.15	118.91	110.54
4	1-X	422	ASN	O-C-N	6.15	129.64	122.20
4	2-X	422	ASN	O-C-N	6.15	129.64	122.20
4	3-X	422	ASN	O-C-N	6.15	129.64	122.20
4	4-X	422	ASN	O-C-N	6.15	129.64	122.20
4	5-X	422	ASN	O-C-N	6.15	129.64	122.20
4	6-X	422	ASN	O-C-N	6.15	129.64	122.20
4	7-X	422	ASN	O-C-N	6.15	129.64	122.20
4	8-X	422	ASN	O-C-N	6.15	129.64	122.20
1	1-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	1-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	1-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	1-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	2-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	2-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	2-U	340	ARG	C-N-CA	6.15	128.80	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	3-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	3-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	3-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	3-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	4-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	4-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	4-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	4-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	5-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	5-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	5-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	5-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	6-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	6-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	6-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	6-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	7-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	7-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	7-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	7-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	8-B	855	ILE	N-CA-CB	6.15	118.90	110.54
2	8-U	340	ARG	CA-C-N	6.15	128.80	120.38
2	8-U	340	ARG	C-N-CA	6.15	128.80	120.38
6	8-Z	414	VAL	CA-C-O	-6.15	114.33	120.85
1	1-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	2-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	3-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	4-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	5-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	6-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	7-W	102	CYS	N-CA-C	6.15	119.17	111.24
1	8-W	102	CYS	N-CA-C	6.15	119.17	111.24
4	1-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	2-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	3-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	4-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	5-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	6-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	7-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
4	8-F	159	ILE	N-CA-CB	-6.14	101.06	111.50
5	1-G	376	ASN	CA-C-O	6.14	127.06	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	1-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	2-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	2-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	2-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	3-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	3-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	3-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	4-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	4-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	4-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	5-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	5-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	5-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	6-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	6-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	6-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	7-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	7-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	7-T	474	ILE	O-C-N	-6.14	115.91	121.87
5	8-G	376	ASN	CA-C-O	6.14	127.06	120.55
4	8-L	159	ILE	N-CA-CB	-6.14	101.06	111.50
6	8-T	474	ILE	O-C-N	-6.14	115.91	121.87
1	1-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	1-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	2-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	2-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	3-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	3-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	4-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	4-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	5-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	5-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	6-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	6-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	7-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	7-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
1	8-E	855	ILE	N-CA-CB	6.14	118.89	110.54
3	8-V	1680	ILE	CB-CA-C	-6.14	103.85	112.14
6	1-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	1-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	2-N	414	VAL	CA-C-O	-6.14	114.34	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	3-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	3-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	4-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	4-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	5-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	5-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	6-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	6-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	7-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	7-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
6	8-N	414	VAL	CA-C-O	-6.14	114.34	120.85
4	8-X	432	ASN	CB-CA-C	-6.14	100.18	110.56
4	1-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	1-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	1-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	2-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	2-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	2-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	3-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	3-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	3-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	4-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	4-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	4-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	5-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	5-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	5-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	6-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	6-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	6-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	7-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	7-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	7-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	8-R	432	ASN	CB-CA-C	-6.14	100.19	110.56
6	8-T	401	LYS	N-CA-CB	6.14	119.34	110.20
6	8-Z	401	LYS	N-CA-CB	6.14	119.34	110.20
4	1-F	422	ASN	O-C-N	6.13	129.62	122.20
1	1-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	2-F	422	ASN	O-C-N	6.13	129.62	122.20
1	2-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	3-F	422	ASN	O-C-N	6.13	129.62	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	4-F	422	ASN	O-C-N	6.13	129.62	122.20
1	4-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	5-F	422	ASN	O-C-N	6.13	129.62	122.20
1	5-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	6-F	422	ASN	O-C-N	6.13	129.62	122.20
1	6-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	7-F	422	ASN	O-C-N	6.13	129.62	122.20
1	7-K	855	ILE	N-CA-CB	6.13	118.88	110.54
4	8-F	422	ASN	O-C-N	6.13	129.62	122.20
1	8-K	855	ILE	N-CA-CB	6.13	118.88	110.54
6	1-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	2-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	3-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	4-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	5-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	6-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	7-T	414	VAL	CA-C-O	-6.13	114.35	120.85
6	8-T	414	VAL	CA-C-O	-6.13	114.35	120.85
4	1-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	1-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	1-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	2-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	2-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	2-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	3-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	3-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	3-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	4-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	4-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	4-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	5-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	5-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	5-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	6-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	6-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	6-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	7-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	7-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14
4	7-R	458	ASP	O-C-N	-6.13	114.44	122.59
4	8-L	432	ASN	CB-CA-C	-6.13	100.20	110.56
3	8-P	1680	ILE	CB-CA-C	-6.13	103.86	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	458	ASP	O-C-N	-6.13	114.44	122.59
6	1-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	1-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	2-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	2-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	3-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	3-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	4-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	4-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	5-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	5-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	6-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	6-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	7-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	7-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	8-H	401	LYS	N-CA-CB	6.13	119.33	110.20
6	8-N	430	ARG	N-CA-C	-6.13	105.75	113.23
6	1-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	2-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	3-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	4-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	5-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	6-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	7-N	401	LYS	N-CA-CB	6.13	119.33	110.20
6	8-N	401	LYS	N-CA-CB	6.13	119.33	110.20
3	1-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	1-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	2-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	2-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	3-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	3-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	4-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	4-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	5-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	5-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	6-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	6-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	7-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	7-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
3	8-D	1680	ILE	CB-CA-C	-6.12	103.87	112.14
4	8-F	432	ASN	CB-CA-C	-6.12	100.21	110.56
5	1-Y	376	ASN	CA-C-O	6.12	127.04	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	2-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	2-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	3-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	3-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	4-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	4-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	5-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	5-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	6-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	6-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	7-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	7-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	8-Y	376	ASN	CA-C-O	6.12	127.04	120.55
6	8-Z	430	ARG	N-CA-C	-6.12	105.76	113.23
5	1-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	2-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	3-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	4-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	5-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	6-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	7-M	376	ASN	CA-C-O	6.12	127.04	120.55
5	8-M	376	ASN	CA-C-O	6.12	127.04	120.55
6	1-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	1-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	2-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	2-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	3-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	3-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	4-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	4-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	5-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	5-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	6-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	6-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	7-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	7-X	458	ASP	O-C-N	-6.12	114.45	122.59
6	8-H	338	ASN	N-CA-C	-6.12	104.52	111.07
4	8-X	458	ASP	O-C-N	-6.12	114.45	122.59
3	1-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	1-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	2-J	1634	SER	CA-C-N	-6.12	114.89	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	3-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	3-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	4-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	4-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	5-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	5-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	6-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	6-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	7-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	7-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	8-J	1634	SER	CA-C-N	-6.12	114.89	122.84
3	8-J	1634	SER	C-N-CA	-6.12	114.89	122.84
3	1-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	1-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	1-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	2-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	2-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	2-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	3-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	3-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	3-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	4-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	4-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	4-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	5-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	5-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	5-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	6-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	6-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	6-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	7-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	7-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	7-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
3	8-J	1680	ILE	CB-CA-C	-6.12	103.88	112.14
6	8-T	430	ARG	N-CA-C	-6.12	105.77	113.23
6	8-Z	501	GLU	N-CA-CB	6.12	121.19	110.18
6	1-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	1-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	1-R	422	ASN	O-C-N	6.11	129.60	122.20
6	2-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	2-R	159	ILE	N-CA-CB	-6.11	101.11	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	422	ASN	O-C-N	6.11	129.60	122.20
6	3-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	3-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	3-R	422	ASN	O-C-N	6.11	129.60	122.20
6	4-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	4-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	4-R	422	ASN	O-C-N	6.11	129.60	122.20
6	5-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	5-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	5-R	422	ASN	O-C-N	6.11	129.60	122.20
6	6-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	6-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	6-R	422	ASN	O-C-N	6.11	129.60	122.20
6	7-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	7-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	7-R	422	ASN	O-C-N	6.11	129.60	122.20
6	8-H	430	ARG	N-CA-C	-6.11	105.77	113.23
4	8-R	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	8-R	422	ASN	O-C-N	6.11	129.60	122.20
4	1-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	1-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	1-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	1-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	2-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	2-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	2-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	2-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	3-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	3-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	3-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	3-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	4-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	4-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	4-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	4-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	5-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	5-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	5-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	5-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	6-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	6-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	6-H	501	GLU	N-CA-CB	6.11	121.18	110.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	7-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	7-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	7-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	7-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
4	8-F	458	ASP	O-C-N	-6.11	114.46	122.59
6	8-H	414	VAL	CA-C-O	-6.11	114.37	120.85
6	8-H	501	GLU	N-CA-CB	6.11	121.18	110.18
4	8-X	159	ILE	N-CA-CB	-6.11	101.11	111.50
6	1-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	2-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	3-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	4-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	5-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	6-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	7-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	8-N	338	ASN	N-CA-C	-6.11	104.53	111.07
6	1-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	1-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	1-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	2-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	2-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	2-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	3-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	3-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	3-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	4-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	4-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	4-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	5-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	5-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	5-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	6-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	6-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	6-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	7-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	7-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	7-T	501	GLU	N-CA-CB	6.11	121.17	110.18
6	8-N	474	ILE	O-C-N	-6.11	115.95	121.87
5	8-S	376	ASN	CA-C-O	6.11	127.02	120.55
6	8-T	501	GLU	N-CA-CB	6.11	121.17	110.18
1	1-A	397	SER	CA-C-N	6.10	128.37	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-A	397	SER	C-N-CA	6.10	128.37	120.44
1	2-A	397	SER	CA-C-N	6.10	128.37	120.44
1	2-A	397	SER	C-N-CA	6.10	128.37	120.44
1	3-A	397	SER	CA-C-N	6.10	128.37	120.44
1	3-A	397	SER	C-N-CA	6.10	128.37	120.44
1	4-A	397	SER	CA-C-N	6.10	128.37	120.44
1	4-A	397	SER	C-N-CA	6.10	128.37	120.44
1	5-A	397	SER	CA-C-N	6.10	128.37	120.44
1	5-A	397	SER	C-N-CA	6.10	128.37	120.44
1	6-A	397	SER	CA-C-N	6.10	128.37	120.44
1	6-A	397	SER	C-N-CA	6.10	128.37	120.44
1	7-A	397	SER	CA-C-N	6.10	128.37	120.44
1	7-A	397	SER	C-N-CA	6.10	128.37	120.44
1	8-A	397	SER	CA-C-N	6.10	128.37	120.44
1	8-A	397	SER	C-N-CA	6.10	128.37	120.44
4	1-L	422	ASN	O-C-N	6.10	129.58	122.20
3	1-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	1-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	1-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	2-L	422	ASN	O-C-N	6.10	129.58	122.20
3	2-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	2-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	2-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	3-L	422	ASN	O-C-N	6.10	129.58	122.20
3	3-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	3-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	3-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	4-L	422	ASN	O-C-N	6.10	129.58	122.20
3	4-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	4-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	4-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	5-L	422	ASN	O-C-N	6.10	129.58	122.20
3	5-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	5-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	5-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	6-L	422	ASN	O-C-N	6.10	129.58	122.20
3	6-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	6-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	6-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	7-L	422	ASN	O-C-N	6.10	129.58	122.20
3	7-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	7-Y	320	LYS	CA-C-N	-6.10	110.53	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
4	8-L	422	ASN	O-C-N	6.10	129.58	122.20
3	8-V	524	PRO	N-CA-C	-6.10	105.05	113.53
5	8-Y	320	LYS	CA-C-N	-6.10	110.53	120.72
5	8-Y	320	LYS	C-N-CA	-6.10	110.53	120.72
6	1-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	2-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	3-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	4-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	5-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	6-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	7-N	501	GLU	N-CA-CB	6.10	121.15	110.18
6	8-N	501	GLU	N-CA-CB	6.10	121.15	110.18
5	1-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	1-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	2-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	2-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	3-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	3-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	4-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	4-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	5-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	5-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	6-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	6-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	7-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	7-M	320	LYS	C-N-CA	-6.10	110.54	120.72
5	8-M	320	LYS	CA-C-N	-6.10	110.54	120.72
5	8-M	320	LYS	C-N-CA	-6.10	110.54	120.72
4	1-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	2-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	3-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	4-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	5-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	6-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	7-L	458	ASP	O-C-N	-6.09	114.49	122.59
4	8-L	458	ASP	O-C-N	-6.09	114.49	122.59
5	1-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	1-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	1-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	1-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	2-G	320	LYS	CA-C-N	-6.09	110.55	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	2-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	2-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	3-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	3-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	3-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	3-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	4-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	4-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	4-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	4-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	5-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	5-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	5-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	5-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	6-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	6-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	6-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	6-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	7-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	7-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	7-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	7-V	1634	SER	C-N-CA	-6.09	114.92	122.84
5	8-G	320	LYS	CA-C-N	-6.09	110.55	120.72
5	8-G	320	LYS	C-N-CA	-6.09	110.55	120.72
3	8-V	1634	SER	CA-C-N	-6.09	114.92	122.84
3	8-V	1634	SER	C-N-CA	-6.09	114.92	122.84
2	1-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	1-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	2-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	2-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	3-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	3-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	4-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	4-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	5-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	5-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	6-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	6-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	7-O	496	LEU	CA-C-N	6.09	128.44	120.28
2	7-O	496	LEU	C-N-CA	6.09	128.44	120.28
2	8-O	496	LEU	CA-C-N	6.09	128.44	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-O	496	LEU	C-N-CA	6.09	128.44	120.28
5	1-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	1-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	1-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	1-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	2-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	2-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	2-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	2-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	3-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	3-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	3-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	3-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	4-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	4-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	4-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	4-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	5-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	5-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	5-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	5-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	6-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	6-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	6-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	6-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	7-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	7-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	7-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	7-W	416	GLY	C-N-CA	-6.08	115.11	122.90
5	8-S	320	LYS	CA-C-N	-6.08	110.56	120.72
5	8-S	320	LYS	C-N-CA	-6.08	110.56	120.72
1	8-W	416	GLY	CA-C-N	-6.08	115.11	122.90
1	8-W	416	GLY	C-N-CA	-6.08	115.11	122.90
3	1-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	1-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	1-P	1634	SER	C-N-CA	-6.08	114.93	122.84
3	2-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	2-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	2-P	1634	SER	C-N-CA	-6.08	114.93	122.84
3	3-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	3-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	3-P	1634	SER	C-N-CA	-6.08	114.93	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	4-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	4-P	1634	SER	C-N-CA	-6.08	114.93	122.84
3	5-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	5-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	5-P	1634	SER	C-N-CA	-6.08	114.93	122.84
3	6-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	6-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	6-P	1634	SER	C-N-CA	-6.08	114.93	122.84
3	7-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	7-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	7-P	1634	SER	C-N-CA	-6.08	114.93	122.84
3	8-J	524	PRO	N-CA-C	-6.08	105.07	113.53
3	8-P	1634	SER	CA-C-N	-6.08	114.93	122.84
3	8-P	1634	SER	C-N-CA	-6.08	114.93	122.84
2	1-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	1-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	1-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	2-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	2-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	2-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	3-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	3-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	3-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	4-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	4-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	4-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	5-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	5-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	5-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	6-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	6-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	6-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	7-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	7-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	7-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
2	8-U	496	LEU	CA-C-N	6.08	128.43	120.28
2	8-U	496	LEU	C-N-CA	6.08	128.43	120.28
6	8-Z	338	ASN	N-CA-C	-6.08	104.56	111.07
3	1-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	1-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	1-P	524	PRO	N-CA-C	-6.08	105.08	113.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	1-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	2-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	2-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	2-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	2-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	2-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	3-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	3-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	3-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	3-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	3-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	4-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	4-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	4-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	4-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	4-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	5-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	5-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	5-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	5-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	5-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	6-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	6-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	6-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	6-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	6-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	7-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	7-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	7-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	7-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	7-P	1470	ILE	C-N-CA	6.08	128.71	120.38
3	8-D	1470	ILE	CA-C-N	6.08	128.71	120.38
3	8-D	1470	ILE	C-N-CA	6.08	128.71	120.38
3	8-P	524	PRO	N-CA-C	-6.08	105.08	113.53
3	8-P	1470	ILE	CA-C-N	6.08	128.71	120.38
3	8-P	1470	ILE	C-N-CA	6.08	128.71	120.38
6	1-T	338	ASN	N-CA-C	-6.08	104.57	111.07
6	2-T	338	ASN	N-CA-C	-6.08	104.57	111.07
6	3-T	338	ASN	N-CA-C	-6.08	104.57	111.07
6	4-T	338	ASN	N-CA-C	-6.08	104.57	111.07
6	5-T	338	ASN	N-CA-C	-6.08	104.57	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-T	338	ASN	N-CA-C	-6.08	104.57	111.07
6	7-T	338	ASN	N-CA-C	-6.08	104.57	111.07
6	8-T	338	ASN	N-CA-C	-6.08	104.57	111.07
4	1-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	1-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	2-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	2-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	3-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	3-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	4-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	4-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	5-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	5-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	6-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	6-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	7-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	7-X	306	PRO	N-CA-CB	6.08	109.77	103.15
4	8-F	484	ASP	N-CA-CB	-6.08	101.20	110.01
4	8-X	306	PRO	N-CA-CB	6.08	109.77	103.15
2	1-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	1-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	1-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	1-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	1-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	2-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	2-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	2-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	2-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	2-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	3-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	3-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	3-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	3-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	3-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	4-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	4-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	4-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	4-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	4-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	5-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	5-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	5-L	306	PRO	N-CA-CB	6.08	109.77	103.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	5-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	6-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	6-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	6-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	6-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	6-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	7-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	7-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	7-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	7-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	7-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
2	8-I	496	LEU	CA-C-N	6.08	128.42	120.28
2	8-I	496	LEU	C-N-CA	6.08	128.42	120.28
4	8-L	306	PRO	N-CA-CB	6.08	109.77	103.15
4	8-R	306	PRO	N-CA-CB	6.08	109.77	103.15
1	8-W	1261	PHE	N-CA-CB	6.08	119.15	110.16
1	1-B	397	SER	CA-C-N	6.07	128.34	120.44
1	1-B	397	SER	C-N-CA	6.07	128.34	120.44
6	1-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	2-B	397	SER	CA-C-N	6.07	128.34	120.44
1	2-B	397	SER	C-N-CA	6.07	128.34	120.44
6	2-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	3-B	397	SER	CA-C-N	6.07	128.34	120.44
1	3-B	397	SER	C-N-CA	6.07	128.34	120.44
6	3-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	4-B	397	SER	CA-C-N	6.07	128.34	120.44
1	4-B	397	SER	C-N-CA	6.07	128.34	120.44
6	4-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	5-B	397	SER	CA-C-N	6.07	128.34	120.44
1	5-B	397	SER	C-N-CA	6.07	128.34	120.44
6	5-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	6-B	397	SER	CA-C-N	6.07	128.34	120.44
1	6-B	397	SER	C-N-CA	6.07	128.34	120.44
6	6-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	7-B	397	SER	CA-C-N	6.07	128.34	120.44
1	7-B	397	SER	C-N-CA	6.07	128.34	120.44
6	7-T	453	ASP	O-C-N	-6.07	115.23	122.15
1	8-B	397	SER	CA-C-N	6.07	128.34	120.44
1	8-B	397	SER	C-N-CA	6.07	128.34	120.44
6	8-T	453	ASP	O-C-N	-6.07	115.23	122.15
3	1-D	524	PRO	N-CA-C	-6.07	105.09	113.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-K	397	SER	CA-C-N	6.07	128.33	120.44
1	1-K	397	SER	C-N-CA	6.07	128.33	120.44
3	2-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	2-K	397	SER	CA-C-N	6.07	128.33	120.44
1	2-K	397	SER	C-N-CA	6.07	128.33	120.44
3	3-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	3-K	397	SER	CA-C-N	6.07	128.33	120.44
1	3-K	397	SER	C-N-CA	6.07	128.33	120.44
3	4-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	4-K	397	SER	CA-C-N	6.07	128.33	120.44
1	4-K	397	SER	C-N-CA	6.07	128.33	120.44
3	5-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	5-K	397	SER	CA-C-N	6.07	128.33	120.44
1	5-K	397	SER	C-N-CA	6.07	128.33	120.44
3	6-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	6-K	397	SER	CA-C-N	6.07	128.33	120.44
1	6-K	397	SER	C-N-CA	6.07	128.33	120.44
3	7-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	7-K	397	SER	CA-C-N	6.07	128.33	120.44
1	7-K	397	SER	C-N-CA	6.07	128.33	120.44
3	8-D	524	PRO	N-CA-C	-6.07	105.09	113.53
1	8-K	397	SER	CA-C-N	6.07	128.33	120.44
1	8-K	397	SER	C-N-CA	6.07	128.33	120.44
2	1-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	1-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	1-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	1-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	1-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	2-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	2-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	2-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	2-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	2-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	3-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	3-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	3-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	3-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	3-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	4-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	4-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	4-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	4-Q	397	SER	C-N-CA	6.07	128.33	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	5-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	5-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	5-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	5-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	5-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	6-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	6-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	6-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	6-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	6-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	7-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	7-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	7-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	7-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	7-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
2	8-C	496	LEU	CA-C-N	6.07	128.41	120.28
2	8-C	496	LEU	C-N-CA	6.07	128.41	120.28
1	8-Q	397	SER	CA-C-N	6.07	128.33	120.44
1	8-Q	397	SER	C-N-CA	6.07	128.33	120.44
4	8-R	484	ASP	N-CA-CB	-6.07	101.21	110.01
1	1-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	1-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	1-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
1	2-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	2-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	2-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
1	3-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	3-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	3-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
1	4-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	4-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	4-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
1	5-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	5-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	5-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
1	6-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	6-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	6-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
1	7-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	7-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	7-G	369	ASN	N-CA-CB	-6.07	100.87	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-A	416	GLY	CA-C-N	-6.07	115.13	122.90
1	8-A	416	GLY	C-N-CA	-6.07	115.13	122.90
5	8-G	369	ASN	N-CA-CB	-6.07	100.87	110.28
4	1-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	2-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	3-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	4-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	5-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	6-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	7-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
4	8-L	484	ASP	N-CA-CB	-6.07	101.21	110.01
3	1-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	1-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	1-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	1-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	2-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	2-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	2-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	2-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	3-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	3-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	3-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	3-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	4-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	4-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	4-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	4-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	5-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	5-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	5-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	5-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	6-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	6-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	6-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	6-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	7-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	7-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	7-H	453	ASP	O-C-N	-6.07	115.23	122.15
1	7-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
3	8-D	1634	SER	CA-C-N	-6.07	114.95	122.84
3	8-D	1634	SER	C-N-CA	-6.07	114.95	122.84
6	8-H	453	ASP	O-C-N	-6.07	115.23	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-K	1261	PHE	N-CA-CB	6.07	119.14	110.16
1	1-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	1-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	2-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	2-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	3-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	3-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	4-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	4-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	5-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	5-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	6-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	6-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	7-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	7-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	8-Q	1261	PHE	N-CA-CB	6.06	119.13	110.16
4	8-X	484	ASP	N-CA-CB	-6.06	101.22	110.01
1	1-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	1-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	1-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	1-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	1-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	1-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	1-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	2-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	2-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	2-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	2-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	2-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	2-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	2-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	3-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	3-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	3-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	3-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	3-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	3-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	3-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	4-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	4-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	4-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	4-J	1470	ILE	C-N-CA	6.06	128.68	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	4-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	4-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	5-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	5-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	5-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	5-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	5-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	5-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	5-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	6-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	6-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	6-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	6-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	6-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	6-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	6-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	7-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	7-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	7-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	7-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	7-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	7-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	7-Z	471	LEU	O-C-N	-6.06	115.25	122.15
1	8-B	416	GLY	CA-C-N	-6.06	115.15	122.90
1	8-B	416	GLY	C-N-CA	-6.06	115.15	122.90
3	8-J	1470	ILE	CA-C-N	6.06	128.68	120.38
3	8-J	1470	ILE	C-N-CA	6.06	128.68	120.38
3	8-V	1470	ILE	CA-C-N	6.06	128.68	120.38
3	8-V	1470	ILE	C-N-CA	6.06	128.68	120.38
6	8-Z	471	LEU	O-C-N	-6.06	115.25	122.15
4	1-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	1-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	2-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	2-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	3-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	3-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	4-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	4-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	5-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	5-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	6-F	306	PRO	N-CA-CB	6.06	109.75	103.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	7-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	7-Z	453	ASP	O-C-N	-6.06	115.25	122.15
4	8-F	306	PRO	N-CA-CB	6.06	109.75	103.15
6	8-Z	453	ASP	O-C-N	-6.06	115.25	122.15
1	1-E	397	SER	CA-C-N	6.05	128.31	120.44
1	1-E	397	SER	C-N-CA	6.05	128.31	120.44
1	1-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	1-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	1-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	2-E	397	SER	CA-C-N	6.05	128.31	120.44
1	2-E	397	SER	C-N-CA	6.05	128.31	120.44
1	2-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	2-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	2-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	3-E	397	SER	CA-C-N	6.05	128.31	120.44
1	3-E	397	SER	C-N-CA	6.05	128.31	120.44
1	3-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	3-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	3-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	4-E	397	SER	CA-C-N	6.05	128.31	120.44
1	4-E	397	SER	C-N-CA	6.05	128.31	120.44
1	4-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	4-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	4-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	5-E	397	SER	CA-C-N	6.05	128.31	120.44
1	5-E	397	SER	C-N-CA	6.05	128.31	120.44
1	5-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	5-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	5-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	6-E	397	SER	CA-C-N	6.05	128.31	120.44
1	6-E	397	SER	C-N-CA	6.05	128.31	120.44
1	6-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	6-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	6-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	7-E	397	SER	CA-C-N	6.05	128.31	120.44
1	7-E	397	SER	C-N-CA	6.05	128.31	120.44
1	7-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	7-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	7-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
1	8-E	397	SER	CA-C-N	6.05	128.31	120.44
1	8-E	397	SER	C-N-CA	6.05	128.31	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-E	416	GLY	CA-C-N	-6.05	115.15	122.90
1	8-E	416	GLY	C-N-CA	-6.05	115.15	122.90
5	8-Y	369	ASN	N-CA-CB	-6.05	100.89	110.28
3	1-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	1-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	2-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	2-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	3-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	3-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	4-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	4-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	5-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	5-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	6-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	6-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	7-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	7-V	1535	THR	O-C-N	-6.05	115.70	122.12
3	8-D	1535	THR	O-C-N	-6.05	115.70	122.12
3	8-V	1535	THR	O-C-N	-6.05	115.70	122.12
1	1-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	1-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	2-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	2-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	3-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	3-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	4-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	4-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	5-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	5-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	6-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	6-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	7-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	7-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	8-E	1261	PHE	N-CA-CB	6.05	119.11	110.16
4	8-X	131	GLY	O-C-N	-6.05	116.38	122.19
1	1-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	1-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	2-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	2-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	3-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	3-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	4-K	416	GLY	CA-C-N	-6.05	115.16	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	5-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	5-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	6-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	6-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	7-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	7-K	416	GLY	C-N-CA	-6.05	115.16	122.90
1	8-K	416	GLY	CA-C-N	-6.05	115.16	122.90
1	8-K	416	GLY	C-N-CA	-6.05	115.16	122.90
5	1-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	1-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	1-W	397	SER	CA-C-N	6.05	128.30	120.44
1	1-W	397	SER	C-N-CA	6.05	128.30	120.44
5	2-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	2-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	2-W	397	SER	CA-C-N	6.05	128.30	120.44
1	2-W	397	SER	C-N-CA	6.05	128.30	120.44
5	3-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	3-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	3-W	397	SER	CA-C-N	6.05	128.30	120.44
1	3-W	397	SER	C-N-CA	6.05	128.30	120.44
5	4-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	4-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	4-W	397	SER	CA-C-N	6.05	128.30	120.44
1	4-W	397	SER	C-N-CA	6.05	128.30	120.44
5	5-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	5-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	5-W	397	SER	CA-C-N	6.05	128.30	120.44
1	5-W	397	SER	C-N-CA	6.05	128.30	120.44
5	6-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	6-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	6-W	397	SER	CA-C-N	6.05	128.30	120.44
1	6-W	397	SER	C-N-CA	6.05	128.30	120.44
5	7-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	7-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	7-W	397	SER	CA-C-N	6.05	128.30	120.44
1	7-W	397	SER	C-N-CA	6.05	128.30	120.44
5	8-M	369	ASN	N-CA-CB	-6.05	100.91	110.28
3	8-P	1535	THR	O-C-N	-6.05	115.71	122.12
1	8-W	397	SER	CA-C-N	6.05	128.30	120.44
1	8-W	397	SER	C-N-CA	6.05	128.30	120.44
5	1-S	369	ASN	N-CA-CB	-6.04	100.91	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
5	3-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
5	4-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
5	5-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
5	6-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
5	7-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
5	8-S	369	ASN	N-CA-CB	-6.04	100.91	110.28
3	1-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	2-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	3-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	4-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	5-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	6-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	7-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
3	8-J	1500	LEU	CA-C-O	-6.04	114.48	120.82
6	1-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	2-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	3-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	4-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	5-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	6-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	7-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	8-N	453	ASP	O-C-N	-6.04	115.27	122.15
6	1-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	1-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	1-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	2-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	2-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	2-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	3-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	3-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	3-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	4-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	4-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	4-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	5-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	5-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	5-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	6-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	6-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	6-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	7-N	471	LEU	O-C-N	-6.04	115.27	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	7-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	8-N	471	LEU	O-C-N	-6.04	115.27	122.15
1	8-Q	416	GLY	CA-C-N	-6.04	115.17	122.90
1	8-Q	416	GLY	C-N-CA	-6.04	115.17	122.90
6	1-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	2-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	3-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	4-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	5-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	6-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	7-T	420	THR	CB-CA-C	6.04	121.11	110.85
6	8-T	420	THR	CB-CA-C	6.04	121.11	110.85
4	1-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	2-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	3-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	4-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	5-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	6-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	7-R	306	PRO	O-C-N	-6.03	115.66	122.18
4	8-R	306	PRO	O-C-N	-6.03	115.66	122.18
6	1-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	2-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	3-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	4-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	5-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	6-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	7-Z	420	THR	CB-CA-C	6.03	121.11	110.85
6	8-Z	420	THR	CB-CA-C	6.03	121.11	110.85
4	1-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	2-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	3-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	4-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	5-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	6-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	7-X	442	ASN	CA-C-O	6.03	127.15	120.82
4	8-X	442	ASN	CA-C-O	6.03	127.15	120.82
3	1-D	1541	THR	O-C-N	6.03	126.38	120.71
3	1-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	2-D	1541	THR	O-C-N	6.03	126.38	120.71
3	2-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	3-D	1541	THR	O-C-N	6.03	126.38	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	4-D	1541	THR	O-C-N	6.03	126.38	120.71
3	4-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	5-D	1541	THR	O-C-N	6.03	126.38	120.71
3	5-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	6-D	1541	THR	O-C-N	6.03	126.38	120.71
3	6-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	7-D	1541	THR	O-C-N	6.03	126.38	120.71
3	7-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
3	8-D	1541	THR	O-C-N	6.03	126.38	120.71
3	8-V	1500	LEU	CA-C-O	-6.03	114.49	120.82
6	1-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	1-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	1-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	2-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	2-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	2-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	3-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	3-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	3-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	4-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	4-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	4-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	5-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	5-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	5-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	6-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	6-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	6-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	7-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	7-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	7-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	8-N	420	THR	CB-CA-C	6.03	121.09	110.85
6	8-Z	496	GLN	CA-C-N	6.03	133.05	121.54
6	8-Z	496	GLN	C-N-CA	6.03	133.05	121.54
6	1-H	471	LEU	O-C-N	-6.02	115.28	122.15
6	2-H	471	LEU	O-C-N	-6.02	115.28	122.15
6	3-H	471	LEU	O-C-N	-6.02	115.28	122.15
6	4-H	471	LEU	O-C-N	-6.02	115.28	122.15
6	5-H	471	LEU	O-C-N	-6.02	115.28	122.15
6	6-H	471	LEU	O-C-N	-6.02	115.28	122.15
6	7-H	471	LEU	O-C-N	-6.02	115.28	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	471	LEU	O-C-N	-6.02	115.28	122.15
3	1-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	2-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	3-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	4-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	5-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	6-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	7-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	8-V	1667	ALA	CB-CA-C	-6.02	100.79	110.79
3	1-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	2-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	3-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	4-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	5-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	6-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	7-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
3	8-D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
1	1-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	1-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	1-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	1-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	2-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	2-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	2-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	2-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	3-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	3-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	3-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	3-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	4-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	4-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	4-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	4-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	5-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	5-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	5-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	5-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	6-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	6-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	6-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	6-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	7-B	86	ARG	CA-C-N	-6.02	118.09	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	7-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	7-N	496	GLN	C-N-CA	6.02	133.04	121.54
1	8-B	86	ARG	CA-C-N	-6.02	118.09	123.33
1	8-B	86	ARG	C-N-CA	-6.02	118.09	123.33
6	8-N	496	GLN	CA-C-N	6.02	133.04	121.54
6	8-N	496	GLN	C-N-CA	6.02	133.04	121.54
4	1-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	1-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	1-J	1541	THR	O-C-N	6.01	126.36	120.71
6	1-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	1-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	1-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	1-V	1541	THR	O-C-N	6.01	126.36	120.71
4	2-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	2-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	2-J	1541	THR	O-C-N	6.01	126.36	120.71
6	2-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	2-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	2-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	2-V	1541	THR	O-C-N	6.01	126.36	120.71
4	3-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	3-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	3-J	1541	THR	O-C-N	6.01	126.36	120.71
6	3-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	3-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	3-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	3-V	1541	THR	O-C-N	6.01	126.36	120.71
4	4-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	4-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	4-J	1541	THR	O-C-N	6.01	126.36	120.71
6	4-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	4-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	4-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	4-V	1541	THR	O-C-N	6.01	126.36	120.71
4	5-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	5-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	5-J	1541	THR	O-C-N	6.01	126.36	120.71
6	5-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	5-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	5-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	5-V	1541	THR	O-C-N	6.01	126.36	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	6-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	6-J	1541	THR	O-C-N	6.01	126.36	120.71
6	6-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	6-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	6-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	6-V	1541	THR	O-C-N	6.01	126.36	120.71
4	7-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	7-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	7-J	1541	THR	O-C-N	6.01	126.36	120.71
6	7-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	7-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	7-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	7-V	1541	THR	O-C-N	6.01	126.36	120.71
4	8-F	131	GLY	O-C-N	-6.01	116.42	122.19
6	8-H	420	THR	CB-CA-C	6.01	121.07	110.85
3	8-J	1541	THR	O-C-N	6.01	126.36	120.71
6	8-T	471	LEU	O-C-N	-6.01	115.29	122.15
6	8-T	496	GLN	CA-C-N	6.01	133.03	121.54
6	8-T	496	GLN	C-N-CA	6.01	133.03	121.54
3	8-V	1541	THR	O-C-N	6.01	126.36	120.71
4	1-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	2-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	3-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	4-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	5-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	6-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	7-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	8-R	366	THR	N-CA-CB	6.01	118.73	110.01
4	1-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	2-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	3-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	4-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	5-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	6-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	7-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	8-L	131	GLY	O-C-N	-6.01	116.42	122.19
4	1-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	2-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	3-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	4-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	5-L	442	ASN	CA-C-O	6.01	127.13	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	7-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	8-L	442	ASN	CA-C-O	6.01	127.13	120.82
4	1-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	1-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	1-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	1-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	2-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	2-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	2-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	2-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	3-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	3-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	3-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	3-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	4-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	4-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	4-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	4-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	5-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	5-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	5-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	5-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	6-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	6-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	6-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	6-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	7-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	7-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	7-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	7-H	496	GLN	C-N-CA	6.01	133.01	121.54
4	8-F	366	THR	N-CA-CB	6.01	118.72	110.01
6	8-H	336	LEU	N-CA-C	6.01	117.63	111.14
6	8-H	496	GLN	CA-C-N	6.01	133.01	121.54
6	8-H	496	GLN	C-N-CA	6.01	133.01	121.54
1	1-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	1-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	1-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	1-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	1-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	1-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	1-R	403	ILE	C-N-CA	-6.00	111.87	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	1-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	1-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	2-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	2-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	2-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	2-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	2-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	2-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	2-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	2-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	2-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	2-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	3-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	3-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	3-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	3-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	3-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	3-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	3-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	3-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	3-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	3-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	4-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	4-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	4-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	4-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	4-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	4-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	4-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	4-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	4-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	4-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	5-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	5-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	5-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	5-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	5-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	5-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	5-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	5-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	5-X	403	ILE	CA-C-N	-6.00	111.87	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	6-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	6-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	6-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	6-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	6-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	6-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	6-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	6-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	6-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	6-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	7-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	7-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	7-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	7-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	7-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	7-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	7-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	7-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	7-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	7-X	403	ILE	C-N-CA	-6.00	111.87	122.20
1	8-E	86	ARG	CA-C-N	-6.00	118.11	123.33
1	8-E	86	ARG	C-N-CA	-6.00	118.11	123.33
1	8-K	86	ARG	CA-C-N	-6.00	118.11	123.33
1	8-K	86	ARG	C-N-CA	-6.00	118.11	123.33
6	8-N	336	LEU	N-CA-C	6.00	117.62	111.14
4	8-R	403	ILE	CA-C-N	-6.00	111.87	122.20
4	8-R	403	ILE	C-N-CA	-6.00	111.87	122.20
4	8-R	442	ASN	CA-C-O	6.00	127.12	120.82
4	8-X	403	ILE	CA-C-N	-6.00	111.87	122.20
4	8-X	403	ILE	C-N-CA	-6.00	111.87	122.20
4	1-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	1-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	1-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	1-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	2-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	2-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	2-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	2-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	3-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	3-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	3-F	442	ASN	CA-C-O	6.00	127.12	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	4-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	4-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	4-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	4-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	5-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	5-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	5-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	5-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	6-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	6-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	6-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	6-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	7-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	7-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	7-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	7-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
4	8-F	403	ILE	CA-C-N	-6.00	111.88	122.20
4	8-F	403	ILE	C-N-CA	-6.00	111.88	122.20
4	8-F	442	ASN	CA-C-O	6.00	127.12	120.82
3	8-J	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	1-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	1-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	1-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	2-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	2-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	2-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	3-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	3-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	3-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	4-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	4-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	4-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	5-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	5-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	5-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	6-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	6-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	6-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
1	7-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	7-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	7-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-E	231	LYS	N-CA-C	-6.00	102.34	110.68
4	8-L	306	PRO	O-C-N	-6.00	115.70	122.18
3	8-P	1667	ALA	CB-CA-C	-6.00	100.83	110.79
3	1-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	1-P	1541	THR	O-C-N	6.00	126.35	120.71
6	1-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	2-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	2-P	1541	THR	O-C-N	6.00	126.35	120.71
6	2-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	3-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	3-P	1541	THR	O-C-N	6.00	126.35	120.71
6	3-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	4-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	4-P	1541	THR	O-C-N	6.00	126.35	120.71
6	4-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	5-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	5-P	1541	THR	O-C-N	6.00	126.35	120.71
6	5-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	6-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	6-P	1541	THR	O-C-N	6.00	126.35	120.71
6	6-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	7-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	7-P	1541	THR	O-C-N	6.00	126.35	120.71
6	7-T	336	LEU	N-CA-C	6.00	117.61	111.14
3	8-D	1500	LEU	CA-C-O	-6.00	114.53	120.82
3	8-P	1541	THR	O-C-N	6.00	126.35	120.71
6	8-T	336	LEU	N-CA-C	6.00	117.61	111.14
4	1-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	2-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	3-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	4-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	5-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	6-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	7-F	306	PRO	O-C-N	-6.00	115.70	122.18
4	8-F	306	PRO	O-C-N	-6.00	115.70	122.18
1	1-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	1-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	1-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	1-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	1-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	2-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	2-Q	86	ARG	CA-C-N	-5.99	118.12	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	2-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	2-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	3-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	3-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	3-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	3-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	3-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	4-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	4-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	4-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	4-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	4-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	5-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	5-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	5-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	5-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	5-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	6-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	6-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	6-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	6-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	6-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	7-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	7-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	7-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	7-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	7-Z	336	LEU	N-CA-C	5.99	117.61	111.14
1	8-B	846	ILE	CB-CA-C	-5.99	104.21	111.88
1	8-Q	86	ARG	CA-C-N	-5.99	118.12	123.33
1	8-Q	86	ARG	C-N-CA	-5.99	118.12	123.33
4	8-X	366	THR	N-CA-CB	5.99	118.70	110.01
6	8-Z	336	LEU	N-CA-C	5.99	117.61	111.14
3	1-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	1-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	2-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	2-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	3-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	3-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	4-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	4-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	5-J	1492	GLY	O-C-N	5.99	129.13	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	6-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	6-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	7-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	7-L	366	THR	N-CA-CB	5.99	118.70	110.01
3	8-J	1492	GLY	O-C-N	5.99	129.13	122.54
4	8-L	366	THR	N-CA-CB	5.99	118.70	110.01
4	1-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	1-P	800	PRO	O-C-N	5.99	124.06	121.31
1	1-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	1-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	1-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	2-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	2-P	800	PRO	O-C-N	5.99	124.06	121.31
1	2-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	2-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	2-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	3-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	3-P	800	PRO	O-C-N	5.99	124.06	121.31
1	3-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	3-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	3-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	4-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	4-P	800	PRO	O-C-N	5.99	124.06	121.31
1	4-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	4-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	4-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	5-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	5-P	800	PRO	O-C-N	5.99	124.06	121.31
1	5-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	5-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	5-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	6-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	6-P	800	PRO	O-C-N	5.99	124.06	121.31
1	6-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	6-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	6-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	7-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	7-P	800	PRO	O-C-N	5.99	124.06	121.31
1	7-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	7-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	7-W	231	LYS	N-CA-C	-5.99	102.36	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	152	LYS	CB-CA-C	-5.99	100.56	109.90
3	8-P	800	PRO	O-C-N	5.99	124.06	121.31
1	8-W	86	ARG	CA-C-N	-5.99	118.12	123.33
1	8-W	86	ARG	C-N-CA	-5.99	118.12	123.33
1	8-W	231	LYS	N-CA-C	-5.99	102.36	110.68
4	1-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	1-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	1-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	1-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	2-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	2-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	2-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	2-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	3-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	3-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	3-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	3-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	4-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	4-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	4-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	4-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	5-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	5-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	5-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	5-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	6-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	6-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	6-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	6-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	7-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	7-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	7-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	7-X	306	PRO	O-C-N	-5.99	115.72	122.18
4	8-F	438	ILE	CA-C-N	-5.99	111.21	120.31
4	8-F	438	ILE	C-N-CA	-5.99	111.21	120.31
3	8-J	1535	THR	O-C-N	-5.99	115.78	122.12
4	8-X	306	PRO	O-C-N	-5.99	115.72	122.18
1	1-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	1-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	1-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	1-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	2-B	231	LYS	N-CA-C	-5.98	102.36	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	2-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	2-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	3-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	3-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	3-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	3-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	4-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	4-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	4-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	4-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	5-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	5-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	5-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	5-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	6-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	6-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	6-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	6-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	7-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	7-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	7-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	7-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	8-B	231	LYS	N-CA-C	-5.98	102.36	110.68
5	8-G	346	PHE	N-CA-C	-5.98	104.68	111.14
4	8-R	131	GLY	O-C-N	-5.98	116.45	122.19
1	8-W	846	ILE	CB-CA-C	-5.98	104.22	111.88
1	1-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	1-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	2-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	2-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	3-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	3-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	4-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	4-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	5-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	5-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	6-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	6-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	7-K	846	ILE	CB-CA-C	-5.98	104.23	111.88
4	7-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
1	8-K	846	ILE	CB-CA-C	-5.98	104.23	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	152	LYS	CB-CA-C	-5.98	100.57	109.90
3	1-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	2-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	3-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	4-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	5-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	6-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	7-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
3	8-P	1500	LEU	CA-C-O	-5.98	114.54	120.82
5	1-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	2-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	3-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	4-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	5-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	6-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	7-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
5	8-Y	384	ASP	CB-CA-C	-5.98	99.20	110.67
1	1-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	1-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	1-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	2-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	2-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	2-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	3-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	3-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	3-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	4-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	4-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	4-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	5-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	5-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	5-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	6-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	6-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	6-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	7-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	7-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	7-V	1492	GLY	O-C-N	5.97	129.11	122.54
1	8-A	86	ARG	CA-C-N	-5.97	118.13	123.33
1	8-A	86	ARG	C-N-CA	-5.97	118.13	123.33
3	8-V	1492	GLY	O-C-N	5.97	129.11	122.54
2	1-C	252	MET	N-CA-CB	5.97	120.58	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	1-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	1-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	1-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	2-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	2-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	2-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	2-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	2-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	3-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	3-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	3-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	3-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	3-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	4-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	4-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	4-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	4-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	4-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	5-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	5-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	5-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	5-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	5-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	6-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	6-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	6-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	6-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	6-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	7-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	7-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	7-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	7-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	7-S	259	GLN	N-CA-C	-5.97	104.84	111.71
2	8-C	252	MET	N-CA-CB	5.97	120.58	110.49
4	8-F	152	LYS	CB-CA-C	-5.97	100.58	109.90
4	8-R	438	ILE	CA-C-N	-5.97	111.23	120.31
4	8-R	438	ILE	C-N-CA	-5.97	111.23	120.31
5	8-S	259	GLN	N-CA-C	-5.97	104.84	111.71
1	1-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	1-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	1-K	231	LYS	N-CA-C	-5.97	102.38	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	2-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	2-K	231	LYS	N-CA-C	-5.97	102.38	110.68
1	3-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	3-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	3-K	231	LYS	N-CA-C	-5.97	102.38	110.68
1	4-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	4-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	4-K	231	LYS	N-CA-C	-5.97	102.38	110.68
1	5-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	5-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	5-K	231	LYS	N-CA-C	-5.97	102.38	110.68
1	6-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	6-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	6-K	231	LYS	N-CA-C	-5.97	102.38	110.68
1	7-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	7-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	7-K	231	LYS	N-CA-C	-5.97	102.38	110.68
1	8-A	846	ILE	CB-CA-C	-5.97	104.24	111.88
5	8-G	259	GLN	N-CA-C	-5.97	104.84	111.71
1	8-K	231	LYS	N-CA-C	-5.97	102.38	110.68
2	1-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	1-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	1-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	2-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	2-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	2-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	3-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	3-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	3-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	4-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	4-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	4-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	5-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	5-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	5-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	6-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	6-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	6-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	7-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	7-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	7-X	152	LYS	CB-CA-C	-5.97	100.59	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-I	177	SER	CA-C-N	-5.97	114.83	122.77
2	8-I	177	SER	C-N-CA	-5.97	114.83	122.77
4	8-X	152	LYS	CB-CA-C	-5.97	100.59	109.90
2	1-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	1-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	1-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	1-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	1-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	1-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	1-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	1-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	1-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	1-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	2-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	2-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	2-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	2-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	2-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	2-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	2-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	2-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	2-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	2-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	3-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	3-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	3-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	3-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	3-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	3-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	3-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	3-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	3-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	3-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	4-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	4-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	4-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	4-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	4-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	4-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	4-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	4-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	4-M	350	VAL	N-CA-CB	5.97	117.53	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	5-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	5-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	5-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	5-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	5-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	5-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	5-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	5-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	5-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	5-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	6-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	6-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	6-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	6-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	6-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	6-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	6-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	6-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	6-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	6-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	7-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	7-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	7-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	7-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	7-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	7-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	7-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	7-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	7-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	7-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	8-C	177	SER	CA-C-N	-5.97	114.83	122.77
2	8-C	177	SER	C-N-CA	-5.97	114.83	122.77
3	8-D	1492	GLY	O-C-N	5.97	129.10	122.54
4	8-F	330	PHE	CA-C-N	-5.97	111.05	120.60
4	8-F	330	PHE	C-N-CA	-5.97	111.05	120.60
4	8-L	403	ILE	CA-C-N	-5.97	111.94	122.20
4	8-L	403	ILE	C-N-CA	-5.97	111.94	122.20
5	8-M	346	PHE	N-CA-C	-5.97	104.70	111.14
5	8-M	350	VAL	N-CA-CB	5.97	117.53	110.55
4	8-X	461	ARG	CA-C-O	5.97	129.04	120.51
2	1-I	252	MET	N-CA-CB	5.96	120.57	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	1-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	1-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	1-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	2-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	2-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	2-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	2-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	2-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	3-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	3-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	3-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	3-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	3-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	4-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	4-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	4-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	4-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	4-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	5-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	5-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	5-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	5-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	5-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	6-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	6-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	6-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	6-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	6-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	7-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	7-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	7-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	7-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	7-X	438	ILE	C-N-CA	-5.96	111.25	120.31
2	8-I	252	MET	N-CA-CB	5.96	120.57	110.49
4	8-X	330	PHE	CA-C-N	-5.96	111.06	120.60
4	8-X	330	PHE	C-N-CA	-5.96	111.06	120.60
4	8-X	438	ILE	CA-C-N	-5.96	111.25	120.31
4	8-X	438	ILE	C-N-CA	-5.96	111.25	120.31
1	1-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	1-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	2-Q	231	LYS	N-CA-C	-5.96	102.39	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	3-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	3-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	4-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	4-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	5-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	5-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	6-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	6-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	7-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	7-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
1	8-Q	231	LYS	N-CA-C	-5.96	102.39	110.68
1	8-Q	846	ILE	CB-CA-C	-5.96	104.25	111.88
4	1-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	2-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	3-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	4-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	5-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	6-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	7-F	461	ARG	CA-C-O	5.96	129.03	120.51
4	8-F	461	ARG	CA-C-O	5.96	129.03	120.51
5	1-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	1-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	1-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	1-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	2-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	2-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	2-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	2-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	3-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	3-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	3-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	3-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	4-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	4-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	4-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	4-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	5-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	5-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	5-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	5-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	6-G	384	ASP	CB-CA-C	-5.96	99.23	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	6-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	6-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	7-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	7-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	7-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	7-U	252	MET	N-CA-CB	5.96	120.56	110.49
5	8-G	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	8-M	384	ASP	CB-CA-C	-5.96	99.23	110.67
5	8-S	384	ASP	CB-CA-C	-5.96	99.23	110.67
2	8-U	252	MET	N-CA-CB	5.96	120.56	110.49
1	1-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	1-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	2-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	2-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	3-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	3-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	4-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	4-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	5-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	5-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	6-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	6-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	7-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	7-P	1492	GLY	O-C-N	5.96	129.09	122.54
1	8-A	231	LYS	N-CA-C	-5.96	102.40	110.68
3	8-P	1492	GLY	O-C-N	5.96	129.09	122.54
4	1-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	1-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	2-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	2-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	3-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	3-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	4-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	4-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	5-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	5-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	6-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	6-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	7-L	438	ILE	CA-C-N	-5.96	111.26	120.31
4	7-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	8-L	438	ILE	CA-C-N	-5.96	111.26	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	438	ILE	C-N-CA	-5.96	111.26	120.31
4	1-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	2-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	3-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	4-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	5-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	6-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	7-L	461	ARG	CA-C-O	5.95	129.03	120.51
4	8-L	461	ARG	CA-C-O	5.95	129.03	120.51
5	1-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	2-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	3-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	4-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	5-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	6-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	7-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	8-S	346	PHE	N-CA-C	-5.95	104.71	111.14
5	1-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	2-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	3-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	4-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	5-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	6-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	7-G	350	VAL	N-CA-CB	5.95	117.51	110.55
5	8-G	350	VAL	N-CA-CB	5.95	117.51	110.55
4	1-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	1-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	2-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	2-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	3-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	3-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	4-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	4-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	5-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	5-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	6-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	6-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	7-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	7-L	330	PHE	C-N-CA	-5.95	111.08	120.60
4	8-L	330	PHE	CA-C-N	-5.95	111.08	120.60
4	8-L	330	PHE	C-N-CA	-5.95	111.08	120.60
2	1-I	620	GLY	N-CA-C	-5.95	106.52	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	2-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	2-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	3-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	3-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	4-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	4-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	5-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	5-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	6-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	6-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	7-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	7-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
2	8-I	620	GLY	N-CA-C	-5.95	106.52	115.32
5	8-Y	342	PRO	N-CA-CB	-5.95	97.22	103.52
5	1-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	1-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	1-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	1-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	2-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	2-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	2-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	2-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	3-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	3-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	3-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	3-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	4-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	4-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	4-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	4-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	5-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	5-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	5-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	5-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	6-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	6-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	6-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	6-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	7-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	7-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	7-U	620	GLY	N-CA-C	-5.94	106.53	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
5	8-M	407	HIS	CA-C-N	-5.94	111.85	120.29
5	8-M	407	HIS	C-N-CA	-5.94	111.85	120.29
2	8-U	620	GLY	N-CA-C	-5.94	106.53	115.32
5	8-Y	350	VAL	N-CA-CB	5.94	117.50	110.55
2	1-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	1-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	1-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	1-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	1-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	1-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	1-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	2-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	2-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	2-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	2-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	2-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	2-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	2-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	3-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	3-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	3-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	3-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	3-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	3-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	3-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	4-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	4-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	4-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	4-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	4-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	4-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	4-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	5-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	5-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	5-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	5-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	5-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	5-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	5-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	6-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	6-C	586	LYS	C-N-CA	5.94	132.89	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	6-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	6-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	6-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	6-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	7-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	7-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	7-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	7-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	7-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	7-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	7-U	761	LYS	N-CA-C	-5.94	100.81	110.20
2	8-C	586	LYS	CA-C-N	5.94	132.89	121.54
2	8-C	586	LYS	C-N-CA	5.94	132.89	121.54
2	8-O	177	SER	CA-C-N	-5.94	114.87	122.77
2	8-O	177	SER	C-N-CA	-5.94	114.87	122.77
2	8-U	177	SER	CA-C-N	-5.94	114.87	122.77
2	8-U	177	SER	C-N-CA	-5.94	114.87	122.77
2	8-U	761	LYS	N-CA-C	-5.94	100.81	110.20
4	1-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	1-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	2-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	2-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	3-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	3-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	4-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	4-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	5-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	5-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	6-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	6-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	7-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	7-S	350	VAL	N-CA-CB	5.94	117.50	110.55
4	8-F	300	PRO	N-CA-C	5.94	117.94	110.70
5	8-S	350	VAL	N-CA-CB	5.94	117.50	110.55
1	1-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	1-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	1-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	1-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	2-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	2-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	2-R	330	PHE	CA-C-N	-5.94	111.10	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	3-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	3-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	3-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	3-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	4-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	4-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	4-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	4-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	5-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	5-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	5-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	5-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	6-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	6-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	6-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	6-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	7-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	7-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	7-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	7-R	330	PHE	C-N-CA	-5.94	111.10	120.60
1	8-E	846	ILE	CB-CA-C	-5.94	104.28	111.88
4	8-F	432	ASN	N-CA-CB	5.94	119.23	110.56
4	8-R	330	PHE	CA-C-N	-5.94	111.10	120.60
4	8-R	330	PHE	C-N-CA	-5.94	111.10	120.60
5	1-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	1-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	2-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	2-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	3-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	3-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	4-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	4-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	5-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	5-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	6-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	6-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	7-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	7-S	407	HIS	C-N-CA	-5.94	111.86	120.29
5	8-S	407	HIS	CA-C-N	-5.94	111.86	120.29
5	8-S	407	HIS	C-N-CA	-5.94	111.86	120.29
1	1-A	205	LEU	CB-CA-C	-5.93	104.07	111.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	1-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	2-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	2-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	2-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	3-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	3-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	3-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	4-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	4-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	4-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	5-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	5-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	5-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	6-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	6-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	6-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	7-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	7-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	7-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	8-A	205	LEU	CB-CA-C	-5.93	104.07	111.43
2	8-O	252	MET	N-CA-CB	5.93	120.52	110.49
5	8-S	342	PRO	N-CA-CB	-5.93	97.23	103.52
2	1-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	1-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	1-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	2-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	2-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	2-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	3-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	3-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	3-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	4-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	4-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	4-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	5-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	5-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	5-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	6-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	6-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	6-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	7-C	620	GLY	N-CA-C	-5.93	106.54	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	7-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	8-C	620	GLY	N-CA-C	-5.93	106.54	115.32
2	8-U	586	LYS	CA-C-N	5.93	132.87	121.54
2	8-U	586	LYS	C-N-CA	5.93	132.87	121.54
2	1-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	1-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	1-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	1-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	2-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	2-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	2-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	2-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	3-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	3-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	3-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	3-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	4-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	4-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	4-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	4-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	5-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	5-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	5-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	5-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	6-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	6-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	6-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	6-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	7-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	7-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	7-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	7-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	8-I	586	LYS	CA-C-N	5.93	132.87	121.54
2	8-I	586	LYS	C-N-CA	5.93	132.87	121.54
5	8-Y	407	HIS	CA-C-N	-5.93	111.87	120.29
5	8-Y	407	HIS	C-N-CA	-5.93	111.87	120.29
2	1-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	1-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	1-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	2-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	2-K	205	LEU	CB-CA-C	-5.93	104.08	111.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	3-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	3-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	3-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	4-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	4-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	4-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	5-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	5-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	5-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	6-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	6-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	6-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	7-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	7-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	7-L	432	ASN	N-CA-CB	5.93	119.22	110.56
2	8-C	761	LYS	N-CA-C	-5.93	100.83	110.20
1	8-K	205	LEU	CB-CA-C	-5.93	104.08	111.43
4	8-L	432	ASN	N-CA-CB	5.93	119.22	110.56
5	1-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	1-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	1-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	1-V	800	PRO	O-C-N	5.93	124.04	121.31
4	1-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	2-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	2-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	2-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	2-V	800	PRO	O-C-N	5.93	124.04	121.31
4	2-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	3-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	3-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	3-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	3-V	800	PRO	O-C-N	5.93	124.04	121.31
4	3-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	4-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	4-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	4-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	4-V	800	PRO	O-C-N	5.93	124.04	121.31
4	4-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	5-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	5-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	5-R	461	ARG	CA-C-O	5.93	128.99	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-V	800	PRO	O-C-N	5.93	124.04	121.31
4	5-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	6-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	6-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	6-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	6-V	800	PRO	O-C-N	5.93	124.04	121.31
4	6-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	7-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	7-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	7-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	7-V	800	PRO	O-C-N	5.93	124.04	121.31
4	7-X	432	ASN	N-CA-CB	5.93	119.21	110.56
5	8-G	342	PRO	N-CA-CB	-5.93	97.24	103.52
2	8-I	220	ILE	N-CA-C	-5.93	104.57	110.62
4	8-R	461	ARG	CA-C-O	5.93	128.99	120.51
3	8-V	800	PRO	O-C-N	5.93	124.04	121.31
4	8-X	432	ASN	N-CA-CB	5.93	119.21	110.56
4	1-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	1-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	2-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	2-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	3-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	3-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	4-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	4-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	5-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	5-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	6-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	6-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	7-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	7-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	8-X	300	PRO	N-CA-C	5.92	117.93	110.70
5	8-Y	259	GLN	N-CA-C	-5.92	104.90	111.71
4	1-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	1-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	1-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	1-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	1-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	1-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	2-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	2-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	2-G	407	HIS	CA-C-N	-5.92	111.88	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	2-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	2-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	3-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	3-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	3-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	3-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	3-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	3-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	4-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	4-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	4-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	4-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	4-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	4-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	5-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	5-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	5-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	5-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	5-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	5-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	6-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	6-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	6-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	6-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	6-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	6-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	7-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	7-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	7-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	7-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	7-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	7-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	8-F	471	GLN	CA-C-N	-5.92	111.88	120.29
4	8-F	471	GLN	C-N-CA	-5.92	111.88	120.29
5	8-G	407	HIS	CA-C-N	-5.92	111.88	120.29
5	8-G	407	HIS	C-N-CA	-5.92	111.88	120.29
4	8-L	300	PRO	N-CA-C	5.92	117.92	110.70
1	8-W	205	LEU	CB-CA-C	-5.92	104.09	111.43
4	1-R	432	ASN	N-CA-CB	5.92	119.20	110.56
4	2-R	432	ASN	N-CA-CB	5.92	119.20	110.56
4	3-R	432	ASN	N-CA-CB	5.92	119.20	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	432	ASN	N-CA-CB	5.92	119.20	110.56
4	5-R	432	ASN	N-CA-CB	5.92	119.20	110.56
4	6-R	432	ASN	N-CA-CB	5.92	119.20	110.56
4	7-R	432	ASN	N-CA-CB	5.92	119.20	110.56
4	8-R	432	ASN	N-CA-CB	5.92	119.20	110.56
2	1-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	1-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	2-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	2-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	3-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	3-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	4-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	4-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	5-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	5-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	6-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	6-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	7-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	7-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
2	8-O	220	ILE	N-CA-C	-5.92	104.59	110.62
5	8-Y	321	ASN	N-CA-C	-5.92	105.32	112.54
5	1-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	2-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	3-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	4-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	5-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	6-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	7-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
5	8-Y	346	PHE	N-CA-C	-5.92	104.75	111.14
3	1-J	800	PRO	O-C-N	5.91	124.03	121.31
3	1-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	1-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	1-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	1-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	1-R	471	GLN	C-N-CA	-5.91	111.90	120.29
3	1-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	2-J	800	PRO	O-C-N	5.91	124.03	121.31
3	2-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	2-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	2-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	2-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	2-R	471	GLN	C-N-CA	-5.91	111.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	3-J	800	PRO	O-C-N	5.91	124.03	121.31
3	3-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	3-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	3-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	3-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	3-R	471	GLN	C-N-CA	-5.91	111.90	120.29
3	3-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	4-J	800	PRO	O-C-N	5.91	124.03	121.31
3	4-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	4-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	4-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	4-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	4-R	471	GLN	C-N-CA	-5.91	111.90	120.29
3	4-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	5-J	800	PRO	O-C-N	5.91	124.03	121.31
3	5-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	5-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	5-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	5-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	5-R	471	GLN	C-N-CA	-5.91	111.90	120.29
3	5-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	6-J	800	PRO	O-C-N	5.91	124.03	121.31
3	6-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	6-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	6-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	6-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	6-R	471	GLN	C-N-CA	-5.91	111.90	120.29
3	6-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	7-J	800	PRO	O-C-N	5.91	124.03	121.31
3	7-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	7-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	7-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	7-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	7-R	471	GLN	C-N-CA	-5.91	111.90	120.29
3	7-V	1517	SER	N-CA-C	-5.91	101.68	111.37
3	8-J	800	PRO	O-C-N	5.91	124.03	121.31
3	8-J	1517	SER	N-CA-C	-5.91	101.68	111.37
2	8-O	620	GLY	N-CA-C	-5.91	106.57	115.32
4	8-R	300	PRO	N-CA-C	5.91	117.91	110.70
4	8-R	471	GLN	CA-C-N	-5.91	111.90	120.29
4	8-R	471	GLN	C-N-CA	-5.91	111.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1517	SER	N-CA-C	-5.91	101.68	111.37
1	1-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	1-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	2-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	2-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	3-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	3-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	4-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	4-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	5-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	5-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	6-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	6-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	7-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	7-O	761	LYS	N-CA-C	-5.91	100.86	110.20
1	8-E	205	LEU	CB-CA-C	-5.91	104.10	111.43
2	8-O	761	LYS	N-CA-C	-5.91	100.86	110.20
2	1-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	1-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	1-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	2-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	2-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	2-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	3-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	3-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	3-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	4-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	4-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	4-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	5-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	5-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	5-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	6-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	6-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	6-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	7-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	7-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	7-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	8-O	586	LYS	CA-C-N	5.90	132.82	121.54
2	8-O	586	LYS	C-N-CA	5.90	132.82	121.54
5	8-S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	1-C	220	ILE	N-CA-C	-5.90	104.60	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	1-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	2-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	2-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	2-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	3-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	3-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	3-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	4-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	4-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	4-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	5-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	5-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	5-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	6-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	6-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	6-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	7-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	7-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	7-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
2	8-C	220	ILE	N-CA-C	-5.90	104.60	110.62
5	8-M	259	GLN	N-CA-C	-5.90	104.92	111.71
1	8-Q	205	LEU	CB-CA-C	-5.90	104.11	111.43
5	1-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	2-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	3-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	4-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	5-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	6-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	7-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
5	8-M	342	PRO	N-CA-CB	-5.90	97.27	103.52
4	1-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	1-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	2-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	2-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	3-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	3-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	4-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	4-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	5-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	5-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	6-L	471	GLN	CA-C-N	-5.90	111.92	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	7-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	7-L	471	GLN	C-N-CA	-5.90	111.92	120.29
4	8-L	471	GLN	CA-C-N	-5.90	111.92	120.29
4	8-L	471	GLN	C-N-CA	-5.90	111.92	120.29
3	1-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	2-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	3-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	4-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	5-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	6-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	7-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	8-P	1517	SER	N-CA-C	-5.90	101.70	111.37
3	1-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	2-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	3-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	4-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	5-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	6-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	7-J	1538	SER	N-CA-C	-5.89	105.19	112.38
3	8-J	1538	SER	N-CA-C	-5.89	105.19	112.38
1	1-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	1-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	1-X	471	GLN	C-N-CA	-5.89	111.92	120.29
1	2-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	2-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	2-X	471	GLN	C-N-CA	-5.89	111.92	120.29
1	3-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	3-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	3-X	471	GLN	C-N-CA	-5.89	111.92	120.29
1	4-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	4-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	4-X	471	GLN	C-N-CA	-5.89	111.92	120.29
1	5-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	5-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	5-X	471	GLN	C-N-CA	-5.89	111.92	120.29
1	6-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	6-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	6-X	471	GLN	C-N-CA	-5.89	111.92	120.29
1	7-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	7-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	7-X	471	GLN	C-N-CA	-5.89	111.92	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-B	205	LEU	CB-CA-C	-5.89	104.12	111.43
4	8-X	471	GLN	CA-C-N	-5.89	111.92	120.29
4	8-X	471	GLN	C-N-CA	-5.89	111.92	120.29
2	1-C	726	SER	CA-C-N	5.89	128.83	120.53
2	1-C	726	SER	C-N-CA	5.89	128.83	120.53
2	2-C	726	SER	CA-C-N	5.89	128.83	120.53
2	2-C	726	SER	C-N-CA	5.89	128.83	120.53
2	3-C	726	SER	CA-C-N	5.89	128.83	120.53
2	3-C	726	SER	C-N-CA	5.89	128.83	120.53
2	4-C	726	SER	CA-C-N	5.89	128.83	120.53
2	4-C	726	SER	C-N-CA	5.89	128.83	120.53
2	5-C	726	SER	CA-C-N	5.89	128.83	120.53
2	5-C	726	SER	C-N-CA	5.89	128.83	120.53
2	6-C	726	SER	CA-C-N	5.89	128.83	120.53
2	6-C	726	SER	C-N-CA	5.89	128.83	120.53
2	7-C	726	SER	CA-C-N	5.89	128.83	120.53
2	7-C	726	SER	C-N-CA	5.89	128.83	120.53
2	8-C	726	SER	CA-C-N	5.89	128.83	120.53
2	8-C	726	SER	C-N-CA	5.89	128.83	120.53
2	1-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	1-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	2-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	2-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	3-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	3-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	4-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	4-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	5-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	5-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	6-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	6-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	7-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	7-U	220	ILE	N-CA-C	-5.89	104.62	110.62
2	8-I	761	LYS	N-CA-C	-5.89	100.90	110.20
2	8-U	220	ILE	N-CA-C	-5.89	104.62	110.62
3	1-D	800	PRO	O-C-N	5.88	124.02	121.31
5	1-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	1-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	2-D	800	PRO	O-C-N	5.88	124.02	121.31
5	2-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	2-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	3-D	800	PRO	O-C-N	5.88	124.02	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	3-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	4-D	800	PRO	O-C-N	5.88	124.02	121.31
5	4-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	4-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	5-D	800	PRO	O-C-N	5.88	124.02	121.31
5	5-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	5-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	6-D	800	PRO	O-C-N	5.88	124.02	121.31
5	6-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	6-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	7-D	800	PRO	O-C-N	5.88	124.02	121.31
5	7-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	7-M	321	ASN	N-CA-C	-5.88	105.37	112.54
3	8-D	800	PRO	O-C-N	5.88	124.02	121.31
5	8-G	321	ASN	N-CA-C	-5.88	105.37	112.54
5	8-M	321	ASN	N-CA-C	-5.88	105.37	112.54
1	1-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	2-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	3-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	4-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	5-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	6-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	7-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	8-E	97	PHE	N-CA-C	-5.88	104.98	114.09
1	1-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	2-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	3-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	4-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	5-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	6-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	7-A	97	PHE	N-CA-C	-5.87	104.99	114.09
1	8-A	97	PHE	N-CA-C	-5.87	104.99	114.09
2	1-U	726	SER	CA-C-N	5.87	128.80	120.53
2	1-U	726	SER	C-N-CA	5.87	128.80	120.53
2	2-U	726	SER	CA-C-N	5.87	128.80	120.53
2	2-U	726	SER	C-N-CA	5.87	128.80	120.53
2	3-U	726	SER	CA-C-N	5.87	128.80	120.53
2	3-U	726	SER	C-N-CA	5.87	128.80	120.53
2	4-U	726	SER	CA-C-N	5.87	128.80	120.53
2	4-U	726	SER	C-N-CA	5.87	128.80	120.53
2	5-U	726	SER	CA-C-N	5.87	128.80	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-U	726	SER	C-N-CA	5.87	128.80	120.53
2	6-U	726	SER	CA-C-N	5.87	128.80	120.53
2	6-U	726	SER	C-N-CA	5.87	128.80	120.53
2	7-U	726	SER	CA-C-N	5.87	128.80	120.53
2	7-U	726	SER	C-N-CA	5.87	128.80	120.53
2	8-U	726	SER	CA-C-N	5.87	128.80	120.53
2	8-U	726	SER	C-N-CA	5.87	128.80	120.53
3	1-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	1-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	1-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	2-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	2-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	2-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	3-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	3-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	3-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	4-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	4-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	4-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	5-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	5-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	5-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	6-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	6-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	6-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	7-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	7-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	7-R	440	MET	N-CA-C	-5.87	104.79	111.07
3	8-D	1517	SER	N-CA-C	-5.87	101.75	111.37
4	8-L	398	LYS	N-CA-C	5.87	120.30	113.20
4	8-R	440	MET	N-CA-C	-5.87	104.79	111.07
2	1-O	726	SER	CA-C-N	5.86	128.80	120.53
2	1-O	726	SER	C-N-CA	5.86	128.80	120.53
2	2-O	726	SER	CA-C-N	5.86	128.80	120.53
2	2-O	726	SER	C-N-CA	5.86	128.80	120.53
2	3-O	726	SER	CA-C-N	5.86	128.80	120.53
2	3-O	726	SER	C-N-CA	5.86	128.80	120.53
2	4-O	726	SER	CA-C-N	5.86	128.80	120.53
2	4-O	726	SER	C-N-CA	5.86	128.80	120.53
2	5-O	726	SER	CA-C-N	5.86	128.80	120.53
2	5-O	726	SER	C-N-CA	5.86	128.80	120.53
2	6-O	726	SER	CA-C-N	5.86	128.80	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-O	726	SER	C-N-CA	5.86	128.80	120.53
2	7-O	726	SER	CA-C-N	5.86	128.80	120.53
2	7-O	726	SER	C-N-CA	5.86	128.80	120.53
2	8-O	726	SER	CA-C-N	5.86	128.80	120.53
2	8-O	726	SER	C-N-CA	5.86	128.80	120.53
3	1-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	2-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	3-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	4-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	5-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	6-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	7-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	8-D	1538	SER	N-CA-C	-5.86	105.23	112.38
3	1-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	1-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	2-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	2-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	3-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	3-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	4-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	4-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	5-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	5-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	6-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	6-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	7-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	7-W	100	MET	CB-CA-C	-5.86	103.75	111.42
3	8-D	1481	VAL	O-C-N	-5.86	116.17	121.91
1	8-W	100	MET	CB-CA-C	-5.86	103.75	111.42
5	1-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	2-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	3-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	4-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	5-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	6-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	7-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	8-G	380	ILE	CB-CA-C	-5.85	101.78	111.32
1	1-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	1-I	726	SER	CA-C-N	5.85	128.78	120.53
2	1-I	726	SER	C-N-CA	5.85	128.78	120.53
1	2-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	2-I	726	SER	CA-C-N	5.85	128.78	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	726	SER	C-N-CA	5.85	128.78	120.53
1	3-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	3-I	726	SER	CA-C-N	5.85	128.78	120.53
2	3-I	726	SER	C-N-CA	5.85	128.78	120.53
1	4-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	4-I	726	SER	CA-C-N	5.85	128.78	120.53
2	4-I	726	SER	C-N-CA	5.85	128.78	120.53
1	5-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	5-I	726	SER	CA-C-N	5.85	128.78	120.53
2	5-I	726	SER	C-N-CA	5.85	128.78	120.53
1	6-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	6-I	726	SER	CA-C-N	5.85	128.78	120.53
2	6-I	726	SER	C-N-CA	5.85	128.78	120.53
1	7-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	7-I	726	SER	CA-C-N	5.85	128.78	120.53
2	7-I	726	SER	C-N-CA	5.85	128.78	120.53
1	8-E	100	MET	CB-CA-C	-5.85	103.75	111.42
2	8-I	726	SER	CA-C-N	5.85	128.78	120.53
2	8-I	726	SER	C-N-CA	5.85	128.78	120.53
3	1-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	1-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	2-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	2-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	3-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	3-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	4-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	4-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	5-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	5-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	6-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	6-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	7-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	7-T	411	GLU	N-CA-C	-5.85	98.34	110.80
3	8-P	1538	SER	N-CA-C	-5.85	105.24	112.38
6	8-T	411	GLU	N-CA-C	-5.85	98.34	110.80
4	1-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	1-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	1-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	1-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	2-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	2-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	2-N	411	GLU	N-CA-C	-5.85	98.34	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	3-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	3-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	3-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	3-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	4-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	4-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	4-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	4-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	5-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	5-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	5-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	5-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	6-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	6-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	6-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	6-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	7-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	7-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	7-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	7-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	8-F	398	LYS	N-CA-C	5.85	120.28	113.20
1	8-K	97	PHE	N-CA-C	-5.85	105.02	114.09
6	8-N	411	GLU	N-CA-C	-5.85	98.34	110.80
6	8-Z	411	GLU	N-CA-C	-5.85	98.34	110.80
4	1-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	2-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	3-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	4-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	5-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	6-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	7-R	398	LYS	N-CA-C	5.85	120.28	113.20
4	8-R	398	LYS	N-CA-C	5.85	120.28	113.20
1	1-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	1-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	1-V	1538	SER	N-CA-C	-5.84	105.25	112.38
1	2-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	2-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	2-V	1538	SER	N-CA-C	-5.84	105.25	112.38
1	3-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	3-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	3-V	1538	SER	N-CA-C	-5.84	105.25	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	4-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	4-V	1538	SER	N-CA-C	-5.84	105.25	112.38
1	5-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	5-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	5-V	1538	SER	N-CA-C	-5.84	105.25	112.38
1	6-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	6-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	6-V	1538	SER	N-CA-C	-5.84	105.25	112.38
1	7-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	7-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	7-V	1538	SER	N-CA-C	-5.84	105.25	112.38
1	8-B	97	PHE	N-CA-C	-5.84	105.03	114.09
4	8-L	440	MET	N-CA-C	-5.84	104.82	111.07
3	8-V	1538	SER	N-CA-C	-5.84	105.25	112.38
4	1-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	1-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	1-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	2-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	2-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	2-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	3-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	3-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	3-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	4-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	4-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	4-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	5-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	5-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	5-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	6-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	6-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	6-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	7-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	7-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	7-W	97	PHE	N-CA-C	-5.84	105.03	114.09
4	8-L	157	ASN	CA-C-N	5.84	129.01	120.71
4	8-L	157	ASN	C-N-CA	5.84	129.01	120.71
1	8-W	97	PHE	N-CA-C	-5.84	105.03	114.09
5	1-M	332	PRO	O-C-N	5.84	128.35	121.46
5	2-M	332	PRO	O-C-N	5.84	128.35	121.46
5	3-M	332	PRO	O-C-N	5.84	128.35	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-M	332	PRO	O-C-N	5.84	128.35	121.46
5	5-M	332	PRO	O-C-N	5.84	128.35	121.46
5	6-M	332	PRO	O-C-N	5.84	128.35	121.46
5	7-M	332	PRO	O-C-N	5.84	128.35	121.46
5	8-M	332	PRO	O-C-N	5.84	128.35	121.46
5	1-G	327	ARG	O-C-N	5.84	130.36	122.59
1	1-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	1-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	1-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	2-G	327	ARG	O-C-N	5.84	130.36	122.59
1	2-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	2-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	2-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	3-G	327	ARG	O-C-N	5.84	130.36	122.59
1	3-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	3-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	3-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	4-G	327	ARG	O-C-N	5.84	130.36	122.59
1	4-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	4-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	4-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	5-G	327	ARG	O-C-N	5.84	130.36	122.59
1	5-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	5-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	5-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	6-G	327	ARG	O-C-N	5.84	130.36	122.59
1	6-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	6-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	6-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	7-G	327	ARG	O-C-N	5.84	130.36	122.59
1	7-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	7-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	7-R	157	ASN	C-N-CA	5.84	129.00	120.71
5	8-G	327	ARG	O-C-N	5.84	130.36	122.59
1	8-Q	97	PHE	N-CA-C	-5.84	105.04	114.09
4	8-R	157	ASN	CA-C-N	5.84	129.00	120.71
4	8-R	157	ASN	C-N-CA	5.84	129.00	120.71
6	1-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	1-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	1-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	1-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	1-V	1663	GLN	CA-C-N	5.84	132.69	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	2-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	2-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	2-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	2-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	2-V	1663	GLN	CA-C-N	5.84	132.69	121.54
3	2-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	3-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	3-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	3-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	3-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	3-V	1663	GLN	CA-C-N	5.84	132.69	121.54
3	3-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	4-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	4-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	4-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	4-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	4-V	1663	GLN	CA-C-N	5.84	132.69	121.54
3	4-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	5-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	5-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	5-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	5-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	5-V	1663	GLN	CA-C-N	5.84	132.69	121.54
3	5-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	6-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	6-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	6-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	6-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	6-V	1663	GLN	CA-C-N	5.84	132.69	121.54
3	6-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	7-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	7-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	7-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	7-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	7-V	1663	GLN	CA-C-N	5.84	132.69	121.54
3	7-V	1663	GLN	C-N-CA	5.84	132.69	121.54
6	8-H	411	GLU	N-CA-C	-5.84	98.36	110.80
3	8-J	1663	GLN	CA-C-N	5.84	132.69	121.54
3	8-J	1663	GLN	C-N-CA	5.84	132.69	121.54
6	8-N	394	ASP	CA-C-O	5.84	126.72	120.24
3	8-V	1663	GLN	CA-C-N	5.84	132.69	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-V	1663	GLN	C-N-CA	5.84	132.69	121.54
3	1-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	1-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	2-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	2-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	3-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	3-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	4-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	4-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	5-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	5-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	6-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	6-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	7-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	7-D	1663	GLN	C-N-CA	5.84	132.69	121.54
3	8-D	1663	GLN	CA-C-N	5.84	132.69	121.54
3	8-D	1663	GLN	C-N-CA	5.84	132.69	121.54
4	1-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	1-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	1-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	2-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	2-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	2-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	3-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	3-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	3-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	4-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	4-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	4-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	5-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	5-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	5-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	6-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	6-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	6-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	7-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	7-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	7-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	8-F	157	ASN	CA-C-N	5.83	128.99	120.71
4	8-F	157	ASN	C-N-CA	5.83	128.99	120.71
6	8-T	446	ARG	N-CA-C	-5.83	103.90	111.02
4	1-X	398	LYS	N-CA-C	5.83	120.25	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	398	LYS	N-CA-C	5.83	120.25	113.20
4	3-X	398	LYS	N-CA-C	5.83	120.25	113.20
4	4-X	398	LYS	N-CA-C	5.83	120.25	113.20
4	5-X	398	LYS	N-CA-C	5.83	120.25	113.20
4	6-X	398	LYS	N-CA-C	5.83	120.25	113.20
4	7-X	398	LYS	N-CA-C	5.83	120.25	113.20
4	8-X	398	LYS	N-CA-C	5.83	120.25	113.20
3	1-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	1-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	1-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	1-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	2-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	2-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	2-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	2-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	3-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	3-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	3-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	3-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	4-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	4-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	4-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	4-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	5-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	5-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	5-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	5-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	6-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	6-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	6-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	6-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	7-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	7-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	7-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	7-X	157	ASN	C-N-CA	5.83	128.99	120.71
3	8-P	1663	GLN	CA-C-N	5.83	132.67	121.54
3	8-P	1663	GLN	C-N-CA	5.83	132.67	121.54
4	8-X	157	ASN	CA-C-N	5.83	128.99	120.71
4	8-X	157	ASN	C-N-CA	5.83	128.99	120.71
4	1-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	1-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	1-W	224	GLY	N-CA-C	-5.83	106.61	115.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	2-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	2-W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	3-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	3-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	3-W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	4-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	4-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	4-W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	5-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	5-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	5-W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	6-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	6-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	6-W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	7-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	7-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	7-W	224	GLY	N-CA-C	-5.83	106.61	115.00
4	8-F	440	MET	N-CA-C	-5.83	104.84	111.07
3	8-J	1535	THR	N-CA-C	-5.83	104.93	111.28
1	8-W	224	GLY	N-CA-C	-5.83	106.61	115.00
2	1-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	1-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	2-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	2-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	3-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	3-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	4-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	4-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	5-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	5-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	6-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	6-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	7-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	7-X	440	MET	N-CA-C	-5.82	104.84	111.07
2	8-I	590	ASP	CB-CA-C	-5.82	109.84	116.54
4	8-X	440	MET	N-CA-C	-5.82	104.84	111.07
4	1-X	312	ALA	N-CA-C	-5.82	105.02	111.71
4	2-X	312	ALA	N-CA-C	-5.82	105.02	111.71
4	3-X	312	ALA	N-CA-C	-5.82	105.02	111.71
4	4-X	312	ALA	N-CA-C	-5.82	105.02	111.71
4	5-X	312	ALA	N-CA-C	-5.82	105.02	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	312	ALA	N-CA-C	-5.82	105.02	111.71
4	7-X	312	ALA	N-CA-C	-5.82	105.02	111.71
4	8-X	312	ALA	N-CA-C	-5.82	105.02	111.71
1	1-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	1-S	327	ARG	O-C-N	5.82	130.33	122.59
1	2-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	2-S	327	ARG	O-C-N	5.82	130.33	122.59
1	3-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	3-S	327	ARG	O-C-N	5.82	130.33	122.59
1	4-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	4-S	327	ARG	O-C-N	5.82	130.33	122.59
1	5-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	5-S	327	ARG	O-C-N	5.82	130.33	122.59
1	6-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	6-S	327	ARG	O-C-N	5.82	130.33	122.59
1	7-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	7-S	327	ARG	O-C-N	5.82	130.33	122.59
1	8-K	224	GLY	N-CA-C	-5.82	106.62	115.00
5	8-S	327	ARG	O-C-N	5.82	130.33	122.59
1	1-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	2-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	3-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	4-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	5-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	6-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	7-B	224	GLY	N-CA-C	-5.82	106.62	115.00
1	8-B	224	GLY	N-CA-C	-5.82	106.62	115.00
3	1-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	2-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	3-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	4-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	5-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	6-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	7-J	1482	CYS	N-CA-C	5.82	117.70	111.36
3	8-J	1482	CYS	N-CA-C	5.82	117.70	111.36
6	1-H	394	ASP	CA-C-O	5.81	126.69	120.24
6	2-H	394	ASP	CA-C-O	5.81	126.69	120.24
6	3-H	394	ASP	CA-C-O	5.81	126.69	120.24
6	4-H	394	ASP	CA-C-O	5.81	126.69	120.24
6	5-H	394	ASP	CA-C-O	5.81	126.69	120.24
6	6-H	394	ASP	CA-C-O	5.81	126.69	120.24
6	7-H	394	ASP	CA-C-O	5.81	126.69	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-H	394	ASP	CA-C-O	5.81	126.69	120.24
1	1-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	1-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	1-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	1-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	1-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	2-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	2-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	2-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	2-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	2-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	3-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	3-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	3-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	3-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	3-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	4-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	4-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	4-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	4-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	4-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	5-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	5-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	5-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	5-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	5-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	6-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	6-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	6-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	6-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	6-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	7-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	7-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	7-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	7-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	7-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
1	8-A	100	MET	CB-CA-C	-5.81	103.81	111.42
1	8-A	224	GLY	N-CA-C	-5.81	106.63	115.00
4	8-L	312	ALA	N-CA-C	-5.81	105.03	111.71
3	8-P	1535	THR	N-CA-C	-5.81	104.95	111.28
2	8-U	590	ASP	CB-CA-C	-5.81	109.86	116.54
3	1-D	1535	THR	N-CA-C	-5.81	104.95	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1535	THR	N-CA-C	-5.81	104.95	111.28
3	3-D	1535	THR	N-CA-C	-5.81	104.95	111.28
3	4-D	1535	THR	N-CA-C	-5.81	104.95	111.28
3	5-D	1535	THR	N-CA-C	-5.81	104.95	111.28
3	6-D	1535	THR	N-CA-C	-5.81	104.95	111.28
3	7-D	1535	THR	N-CA-C	-5.81	104.95	111.28
3	8-D	1535	THR	N-CA-C	-5.81	104.95	111.28
6	1-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	1-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	2-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	2-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	3-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	3-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	4-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	4-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	5-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	5-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	6-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	6-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	7-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	7-N	446	ARG	N-CA-C	-5.81	103.94	111.02
6	8-H	446	ARG	N-CA-C	-5.81	103.94	111.02
6	8-N	446	ARG	N-CA-C	-5.81	103.94	111.02
2	1-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	1-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	1-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	2-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	2-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	2-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	3-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	3-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	3-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	4-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	4-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	4-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	5-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	5-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	5-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	6-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	6-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	6-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	7-I	345	LEU	N-CA-CB	5.80	118.99	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	7-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	8-I	345	LEU	N-CA-CB	5.80	118.99	110.57
4	8-L	465	GLN	N-CA-CB	5.80	118.64	109.82
3	8-V	1481	VAL	O-C-N	-5.80	116.22	121.91
2	1-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	1-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	2-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	2-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	3-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	3-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	4-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	4-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	5-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	5-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	6-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	6-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	7-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	7-E	224	GLY	N-CA-C	-5.80	106.64	115.00
2	8-C	590	ASP	CB-CA-C	-5.80	109.87	116.54
1	8-E	224	GLY	N-CA-C	-5.80	106.64	115.00
5	1-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	2-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	3-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	4-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	5-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	6-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	7-Y	327	ARG	O-C-N	5.80	130.31	122.59
5	8-Y	327	ARG	O-C-N	5.80	130.31	122.59
3	1-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	1-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	1-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	2-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	2-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	2-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	3-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	3-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	3-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	4-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	4-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	4-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	5-J	1481	VAL	O-C-N	-5.80	116.23	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	5-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	6-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	6-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	6-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	7-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	7-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	7-V	1535	THR	N-CA-C	-5.80	104.96	111.28
3	8-J	1481	VAL	O-C-N	-5.80	116.23	121.91
2	8-O	590	ASP	CB-CA-C	-5.80	109.87	116.54
3	8-V	1535	THR	N-CA-C	-5.80	104.96	111.28
2	1-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	1-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	2-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	2-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	3-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	3-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	4-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	4-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	5-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	5-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	6-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	6-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	7-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	7-R	465	GLN	N-CA-CB	5.80	118.63	109.82
2	8-O	345	LEU	N-CA-CB	5.80	118.98	110.57
4	8-R	465	GLN	N-CA-CB	5.80	118.63	109.82
3	1-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	1-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	1-S	332	PRO	O-C-N	5.80	128.30	121.46
6	1-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	2-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	2-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	2-S	332	PRO	O-C-N	5.80	128.30	121.46
6	2-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	3-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	3-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	3-S	332	PRO	O-C-N	5.80	128.30	121.46
6	3-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	4-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	4-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	4-S	332	PRO	O-C-N	5.80	128.30	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	5-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	5-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	5-S	332	PRO	O-C-N	5.80	128.30	121.46
6	5-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	6-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	6-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	6-S	332	PRO	O-C-N	5.80	128.30	121.46
6	6-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	7-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	7-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	7-S	332	PRO	O-C-N	5.80	128.30	121.46
6	7-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
3	8-D	1482	CYS	N-CA-C	5.80	117.68	111.36
4	8-F	312	ALA	N-CA-C	-5.80	105.04	111.71
5	8-S	332	PRO	O-C-N	5.80	128.30	121.46
6	8-Z	446	ARG	N-CA-C	-5.80	103.95	111.02
5	1-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	2-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	3-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	4-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	5-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	6-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	7-M	365	GLU	CA-C-O	-5.79	112.95	119.79
5	8-M	365	GLU	CA-C-O	-5.79	112.95	119.79
4	1-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	1-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	1-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	2-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	2-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	2-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	3-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	3-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	3-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	4-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	4-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	4-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	5-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	5-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	5-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	6-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	6-M	309	ASP	N-CA-C	-5.79	105.05	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	7-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	7-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	7-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
4	8-L	428	LYS	N-CA-C	5.79	117.67	111.36
5	8-M	309	ASP	N-CA-C	-5.79	105.05	111.71
1	8-Q	224	GLY	N-CA-C	-5.79	106.66	115.00
6	1-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	2-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	3-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	4-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	5-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	6-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	7-T	394	ASP	CA-C-O	5.79	126.67	120.24
6	8-T	394	ASP	CA-C-O	5.79	126.67	120.24
3	1-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	1-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	2-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	2-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	3-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	3-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	4-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	4-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	5-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	5-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	6-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	6-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	7-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	7-Y	332	PRO	O-C-N	5.79	128.29	121.46
3	8-J	1457	ASP	N-CA-C	-5.79	103.95	111.71
5	8-Y	332	PRO	O-C-N	5.79	128.29	121.46
4	1-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	1-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	2-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	2-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	3-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	3-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	4-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	4-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	5-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	5-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	6-F	465	GLN	N-CA-CB	5.79	118.62	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	7-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	7-U	345	LEU	N-CA-CB	5.79	118.96	110.57
4	8-F	465	GLN	N-CA-CB	5.79	118.62	109.82
2	8-U	345	LEU	N-CA-CB	5.79	118.96	110.57
2	1-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	1-M	327	ARG	O-C-N	5.79	130.28	122.59
4	1-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	2-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	2-M	327	ARG	O-C-N	5.79	130.28	122.59
4	2-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	3-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	3-M	327	ARG	O-C-N	5.79	130.28	122.59
4	3-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	4-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	4-M	327	ARG	O-C-N	5.79	130.28	122.59
4	4-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	5-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	5-M	327	ARG	O-C-N	5.79	130.28	122.59
4	5-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	6-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	6-M	327	ARG	O-C-N	5.79	130.28	122.59
4	6-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	7-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	7-M	327	ARG	O-C-N	5.79	130.28	122.59
4	7-R	312	ALA	N-CA-C	-5.79	105.06	111.71
2	8-C	345	LEU	N-CA-CB	5.79	118.96	110.57
5	8-M	327	ARG	O-C-N	5.79	130.28	122.59
4	8-R	312	ALA	N-CA-C	-5.79	105.06	111.71
3	1-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	1-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	2-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	2-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	3-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	3-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	4-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	4-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	5-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	5-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	6-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	6-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	7-P	1482	CYS	N-CA-C	5.78	117.66	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1482	CYS	N-CA-C	5.78	117.67	111.36
3	8-P	1482	CYS	N-CA-C	5.78	117.66	111.36
3	8-V	1482	CYS	N-CA-C	5.78	117.67	111.36
4	1-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	1-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	1-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	2-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	2-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	2-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	3-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	3-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	3-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	4-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	4-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	4-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	5-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	5-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	5-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	6-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	6-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	6-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	7-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	7-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	7-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	8-X	474	LEU	CA-C-N	-5.78	112.53	120.28
4	8-X	474	LEU	C-N-CA	-5.78	112.53	120.28
5	8-Y	309	ASP	N-CA-C	-5.78	105.06	111.71
4	1-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	1-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	1-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	2-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	2-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	2-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	3-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	3-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	3-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	4-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	4-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	4-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	5-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	5-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	5-P	1457	ASP	N-CA-C	-5.78	103.97	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	6-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	6-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	7-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	7-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	7-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
4	8-F	391	ILE	CB-CA-C	-5.78	104.34	112.14
5	8-G	365	GLU	CA-C-O	-5.78	112.97	119.79
3	8-P	1457	ASP	N-CA-C	-5.78	103.97	111.71
2	1-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	2-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	3-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	4-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	5-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	6-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	7-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
2	8-I	299	ILE	CB-CA-C	-5.78	104.25	112.22
6	1-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	2-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	3-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	4-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	5-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	6-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	7-Z	394	ASP	CA-C-O	5.77	126.65	120.24
6	8-Z	394	ASP	CA-C-O	5.77	126.65	120.24
4	1-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	1-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	1-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	1-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	1-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	2-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	2-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	2-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	2-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	2-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	3-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	3-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	3-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	3-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	3-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	4-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	4-F	474	LEU	CA-C-N	-5.77	112.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	4-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	4-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	5-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	5-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	5-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	5-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	5-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	6-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	6-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	6-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	6-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	6-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	7-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	7-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	7-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	7-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	7-V	1450	GLU	O-C-N	5.77	130.27	122.59
4	8-F	428	LYS	N-CA-C	5.77	117.65	111.36
4	8-F	474	LEU	CA-C-N	-5.77	112.54	120.28
4	8-F	474	LEU	C-N-CA	-5.77	112.54	120.28
5	8-S	309	ASP	N-CA-C	-5.77	105.07	111.71
3	8-V	1450	GLU	O-C-N	5.77	130.27	122.59
6	1-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	1-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	2-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	2-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	3-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	3-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	4-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	4-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	5-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	5-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	6-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	6-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	7-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	7-X	428	LYS	N-CA-C	5.77	117.65	111.36
6	8-N	489	ASP	O-C-N	-5.77	116.09	122.09
4	8-X	428	LYS	N-CA-C	5.77	117.65	111.36
4	1-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	1-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	1-R	410	LEU	CB-CA-C	-5.77	101.21	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	2-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	2-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	3-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	3-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	3-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	4-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	4-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	4-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	5-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	5-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	5-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	6-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	6-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	6-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	7-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	7-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	7-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	8-L	454	TYR	CB-CA-C	5.77	121.90	110.42
5	8-M	369	ASN	N-CA-C	-5.77	105.13	111.82
4	8-R	410	LEU	CB-CA-C	-5.77	101.21	110.79
4	1-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	1-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	1-R	428	LYS	N-CA-C	5.77	117.65	111.36
4	2-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	2-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	2-R	428	LYS	N-CA-C	5.77	117.65	111.36
4	3-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	3-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	3-R	428	LYS	N-CA-C	5.77	117.65	111.36
4	4-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	4-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	4-R	428	LYS	N-CA-C	5.77	117.65	111.36
4	5-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	5-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	5-R	428	LYS	N-CA-C	5.77	117.65	111.36
4	6-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	6-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	6-R	428	LYS	N-CA-C	5.77	117.65	111.36
4	7-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	7-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	7-R	428	LYS	N-CA-C	5.77	117.65	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-F	461	ARG	N-CA-C	-5.77	98.51	110.80
6	8-H	489	ASP	O-C-N	-5.77	116.13	122.07
4	8-R	428	LYS	N-CA-C	5.77	117.65	111.36
5	1-G	332	PRO	O-C-N	5.77	128.26	121.46
3	1-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	1-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	1-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	2-G	332	PRO	O-C-N	5.77	128.26	121.46
3	2-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	2-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	2-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	3-G	332	PRO	O-C-N	5.77	128.26	121.46
3	3-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	3-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	3-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	4-G	332	PRO	O-C-N	5.77	128.26	121.46
3	4-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	4-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	4-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	5-G	332	PRO	O-C-N	5.77	128.26	121.46
3	5-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	5-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	5-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	6-G	332	PRO	O-C-N	5.77	128.26	121.46
3	6-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	6-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	6-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	7-G	332	PRO	O-C-N	5.77	128.26	121.46
3	7-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	7-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	7-R	474	LEU	C-N-CA	-5.77	112.55	120.28
5	8-G	332	PRO	O-C-N	5.77	128.26	121.46
3	8-P	1477	LEU	CA-C-O	-5.77	113.34	119.97
4	8-R	474	LEU	CA-C-N	-5.77	112.55	120.28
4	8-R	474	LEU	C-N-CA	-5.77	112.55	120.28
2	1-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	1-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	2-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	2-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	3-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	3-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	4-I	9	LEU	CB-CA-C	-5.76	101.59	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	5-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	5-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	6-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	6-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	7-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	7-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
2	8-I	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	8-X	410	LEU	CB-CA-C	-5.76	101.22	110.79
3	1-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	2-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	3-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	4-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	5-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	6-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	7-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
3	8-V	1477	LEU	CA-C-O	-5.76	113.34	119.97
4	1-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	1-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	1-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	1-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	2-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	2-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	2-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	2-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	3-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	3-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	3-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	3-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	4-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	4-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	4-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	4-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	5-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	5-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	5-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	5-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	6-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	6-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	6-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	6-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	7-F	454	TYR	CB-CA-C	5.76	121.89	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	7-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	7-X	454	TYR	CB-CA-C	5.76	121.88	110.42
4	8-F	454	TYR	CB-CA-C	5.76	121.89	110.42
2	8-O	9	LEU	CB-CA-C	-5.76	101.59	110.81
4	8-X	391	ILE	CB-CA-C	-5.76	104.36	112.14
4	8-X	454	TYR	CB-CA-C	5.76	121.88	110.42
3	1-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	1-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	1-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	1-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	1-R	454	TYR	CB-CA-C	5.76	121.88	110.42
3	2-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	2-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	2-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	2-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	2-R	454	TYR	CB-CA-C	5.76	121.88	110.42
3	3-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	3-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	3-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	3-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	3-R	454	TYR	CB-CA-C	5.76	121.88	110.42
3	4-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	4-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	4-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	4-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	4-R	454	TYR	CB-CA-C	5.76	121.88	110.42
3	5-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	5-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	5-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	5-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	5-R	454	TYR	CB-CA-C	5.76	121.88	110.42
3	6-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	6-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	6-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	6-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	6-R	454	TYR	CB-CA-C	5.76	121.88	110.42
3	7-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	7-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	7-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	7-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	7-R	454	TYR	CB-CA-C	5.76	121.88	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	1477	LEU	CA-C-O	-5.76	113.35	119.97
4	8-L	461	ARG	N-CA-C	-5.76	98.53	110.80
4	8-L	474	LEU	CA-C-N	-5.76	112.56	120.28
4	8-L	474	LEU	C-N-CA	-5.76	112.56	120.28
4	8-R	454	TYR	CB-CA-C	5.76	121.88	110.42
5	1-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	1-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	1-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	2-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	2-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	2-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	3-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	3-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	3-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	4-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	4-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	4-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	5-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	5-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	5-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	6-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	6-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	6-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	7-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	7-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	7-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
5	8-G	309	ASP	N-CA-C	-5.76	105.09	111.71
3	8-J	1477	LEU	CA-C-O	-5.76	113.35	119.97
5	8-Y	365	GLU	CA-C-O	-5.76	113.00	119.79
3	1-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	1-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	2-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	2-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	3-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	3-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	4-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	4-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	5-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	5-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	6-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	6-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	7-J	1450	GLU	O-C-N	5.75	130.24	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	8-J	1450	GLU	O-C-N	5.75	130.24	122.59
4	8-R	461	ARG	N-CA-C	-5.75	98.54	110.80
3	1-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	1-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	2-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	2-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	3-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	3-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	4-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	4-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	5-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	5-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	6-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	6-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	7-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	7-X	461	ARG	N-CA-C	-5.75	98.55	110.80
3	8-P	1481	VAL	O-C-N	-5.75	116.27	121.91
4	8-X	461	ARG	N-CA-C	-5.75	98.55	110.80
5	1-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	1-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	1-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	1-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	1-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	2-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	2-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	2-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	2-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	2-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	3-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	3-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	3-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	3-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	3-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	4-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	4-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	4-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	4-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	4-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	5-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	5-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	5-Q	800	GLU	CA-C-N	-5.75	112.21	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	5-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	6-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	6-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	6-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	6-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	6-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	7-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	7-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	7-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	7-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	7-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
5	8-M	303	ARG	N-CA-C	-5.75	105.15	111.82
2	8-O	299	ILE	CB-CA-C	-5.75	104.28	112.22
1	8-Q	800	GLU	CA-C-N	-5.75	112.21	122.45
1	8-Q	800	GLU	C-N-CA	-5.75	112.21	122.45
5	8-S	398	ALA	CB-CA-C	-5.75	101.07	110.85
2	1-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	2-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	3-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	4-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	5-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	6-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	7-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
2	8-C	299	ILE	CB-CA-C	-5.75	104.28	112.22
4	1-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	1-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	1-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	2-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	2-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	2-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	3-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	3-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	3-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	4-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	4-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	4-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	5-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	5-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	5-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	6-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	6-V	1546	LEU	O-C-N	5.75	128.94	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	7-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	7-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	7-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	8-L	410	LEU	CB-CA-C	-5.75	101.25	110.79
3	8-V	1546	LEU	O-C-N	5.75	128.94	122.22
4	8-X	465	GLN	N-CA-CB	5.75	118.56	109.82
4	1-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	2-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	3-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	4-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	5-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	6-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	7-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
4	8-F	143	GLN	N-CA-CB	-5.75	101.98	110.49
2	1-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	1-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	2-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	2-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	3-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	3-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	4-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	4-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	5-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	5-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	6-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	6-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	7-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	7-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
2	8-C	9	LEU	CB-CA-C	-5.75	101.62	110.81
2	8-U	299	ILE	CB-CA-C	-5.75	104.29	112.22
4	1-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	2-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	3-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	4-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	5-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	6-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	7-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
4	8-L	391	ILE	CB-CA-C	-5.74	104.39	112.14
5	1-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	2-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	3-Y	369	ASN	N-CA-C	-5.74	105.16	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	5-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	6-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	7-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	8-Y	369	ASN	N-CA-C	-5.74	105.16	111.82
5	1-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	2-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	3-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	4-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	5-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	6-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	7-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	8-G	398	ALA	CB-CA-C	-5.74	101.09	110.85
5	1-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	1-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	1-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	2-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	2-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	2-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	3-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	3-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	3-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	4-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	4-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	4-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	5-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	5-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	5-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	6-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	6-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	6-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	7-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	7-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	7-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	8-M	398	ALA	CB-CA-C	-5.74	101.09	110.85
6	8-T	489	ASP	O-C-N	-5.74	116.12	122.09
1	8-W	1206	ILE	CB-CA-C	5.74	121.06	112.16
5	1-S	369	ASN	N-CA-C	-5.74	105.17	111.82
5	2-S	369	ASN	N-CA-C	-5.74	105.17	111.82
5	3-S	369	ASN	N-CA-C	-5.74	105.17	111.82
5	4-S	369	ASN	N-CA-C	-5.74	105.17	111.82
5	5-S	369	ASN	N-CA-C	-5.74	105.17	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-S	369	ASN	N-CA-C	-5.74	105.17	111.82
5	7-S	369	ASN	N-CA-C	-5.74	105.17	111.82
5	8-S	369	ASN	N-CA-C	-5.74	105.17	111.82
3	1-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	1-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	1-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	2-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	2-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	2-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	3-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	3-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	3-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	4-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	4-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	4-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	5-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	5-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	5-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	6-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	6-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	6-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	7-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	7-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	7-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
3	8-D	1450	GLU	O-C-N	5.74	130.22	122.59
3	8-P	1501	ASP	O-C-N	-5.74	116.04	122.12
5	8-Y	303	ARG	N-CA-C	-5.74	105.17	111.82
1	1-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	1-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	1-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	2-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	2-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	2-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	3-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	3-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	3-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	4-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	4-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	4-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	5-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	5-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	5-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	6-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	6-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	7-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	7-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	7-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	8-E	1206	ILE	CB-CA-C	5.73	121.05	112.16
3	8-V	1434	ARG	N-CA-C	-5.73	101.87	109.84
5	8-Y	398	ALA	CB-CA-C	-5.73	101.10	110.85
1	1-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	1-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	1-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	1-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	1-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	1-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	2-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	2-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	2-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	2-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	2-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	2-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	3-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	3-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	3-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	3-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	3-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	3-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	4-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	4-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	4-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	4-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	4-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	4-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	5-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	5-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	5-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	5-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	5-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	5-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	6-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	6-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	6-P	1450	GLU	O-C-N	5.73	130.21	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	6-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	6-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	7-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	7-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	7-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	7-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	7-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	7-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	8-A	800	GLU	CA-C-N	-5.73	112.25	122.45
1	8-A	800	GLU	C-N-CA	-5.73	112.25	122.45
3	8-P	1450	GLU	O-C-N	5.73	130.21	122.59
1	8-Q	1206	ILE	CB-CA-C	5.73	121.04	112.16
3	8-V	1457	ASP	N-CA-C	-5.73	104.03	111.71
3	8-V	1501	ASP	O-C-N	-5.73	116.04	122.12
1	1-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	1-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	1-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	2-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	2-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	2-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	3-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	3-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	3-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	4-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	4-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	4-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	5-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	5-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	5-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	6-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	6-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	6-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	7-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	7-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	7-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	8-K	800	GLU	CA-C-N	-5.73	112.25	122.45
1	8-K	800	GLU	C-N-CA	-5.73	112.25	122.45
1	8-W	333	THR	N-CA-C	-5.73	105.12	111.71
1	1-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	1-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	1-R	391	ILE	CB-CA-C	-5.73	104.41	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	2-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	2-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
1	3-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	3-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	3-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
1	4-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	4-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	4-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
1	5-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	5-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	5-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
1	6-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	6-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	6-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
1	7-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	7-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	7-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
1	8-B	800	GLU	CA-C-N	-5.73	112.25	122.45
1	8-B	800	GLU	C-N-CA	-5.73	112.25	122.45
4	8-R	391	ILE	CB-CA-C	-5.73	104.41	112.14
4	1-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	1-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	2-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	2-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	3-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	3-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	4-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	4-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	5-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	5-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	6-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	6-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	7-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	7-S	365	GLU	CA-C-O	-5.73	113.03	119.79
4	8-L	143	GLN	N-CA-CB	-5.73	102.01	110.49
5	8-S	365	GLU	CA-C-O	-5.73	113.03	119.79
1	1-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	1-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	2-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	2-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	3-W	535	ILE	CB-CA-C	-5.73	105.61	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	4-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	4-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	5-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	5-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	6-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	6-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	7-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	7-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
1	8-W	535	ILE	CB-CA-C	-5.73	105.61	112.19
4	8-X	143	GLN	N-CA-CB	-5.73	102.02	110.49
3	1-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	1-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	1-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	1-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	1-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	2-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	2-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	2-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	2-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	2-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	3-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	3-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	3-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	3-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	3-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	4-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	4-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	4-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	4-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	4-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	5-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	5-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	5-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	5-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	5-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	6-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	6-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	6-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	6-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	6-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	7-D	1457	ASP	N-CA-C	-5.72	104.04	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	7-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	7-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	7-P	1546	LEU	O-C-N	5.72	128.92	122.22
3	8-D	1457	ASP	N-CA-C	-5.72	104.04	111.71
1	8-E	333	THR	N-CA-C	-5.72	105.13	111.71
5	8-G	303	ARG	N-CA-C	-5.72	105.18	111.82
1	8-K	1206	ILE	CB-CA-C	5.72	121.03	112.16
3	8-P	1546	LEU	O-C-N	5.72	128.92	122.22
1	1-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	1-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	2-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	2-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	3-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	3-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	4-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	4-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	5-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	5-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	6-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	6-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	7-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	7-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
1	8-B	333	THR	N-CA-C	-5.72	105.13	111.71
4	8-F	410	LEU	CB-CA-C	-5.72	101.29	110.79
6	1-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	2-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	3-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	4-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	5-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	6-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	7-Z	489	ASP	O-C-N	-5.72	116.14	122.09
6	8-Z	489	ASP	O-C-N	-5.72	116.14	122.09
5	1-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	1-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	1-K	333	THR	N-CA-C	-5.72	105.13	111.71
5	2-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	2-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	2-K	333	THR	N-CA-C	-5.72	105.13	111.71
5	3-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	3-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	3-K	333	THR	N-CA-C	-5.72	105.13	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	4-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	4-K	333	THR	N-CA-C	-5.72	105.13	111.71
5	5-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	5-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	5-K	333	THR	N-CA-C	-5.72	105.13	111.71
5	6-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	6-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	6-K	333	THR	N-CA-C	-5.72	105.13	111.71
5	7-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	7-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	7-K	333	THR	N-CA-C	-5.72	105.13	111.71
5	8-G	369	ASN	N-CA-C	-5.72	105.19	111.82
3	8-J	1501	ASP	O-C-N	-5.72	116.06	122.12
1	8-K	333	THR	N-CA-C	-5.72	105.13	111.71
4	1-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	2-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	3-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	4-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	5-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	6-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	7-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
4	8-R	143	GLN	N-CA-CB	-5.72	102.03	110.49
3	1-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	1-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	2-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	2-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	3-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	3-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	4-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	4-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	5-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	5-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	6-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	6-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	7-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	7-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
3	8-D	1546	LEU	O-C-N	5.71	128.90	122.22
2	8-U	9	LEU	CB-CA-C	-5.71	101.67	110.81
1	1-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	1-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	1-S	303	ARG	N-CA-C	-5.71	105.19	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	1-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	2-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	2-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	2-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	2-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	2-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	3-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	3-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	3-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	3-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	3-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	4-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	4-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	4-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	4-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	4-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	5-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	5-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	5-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	5-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	5-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	6-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	6-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	6-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	6-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	6-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	7-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	7-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	7-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	7-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	7-W	800	GLU	C-N-CA	-5.71	112.28	122.45
1	8-E	800	GLU	CA-C-N	-5.71	112.28	122.45
1	8-E	800	GLU	C-N-CA	-5.71	112.28	122.45
5	8-S	303	ARG	N-CA-C	-5.71	105.19	111.82
1	8-W	800	GLU	CA-C-N	-5.71	112.28	122.45
1	8-W	800	GLU	C-N-CA	-5.71	112.28	122.45
5	1-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	2-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	3-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	4-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	5-G	373	THR	CB-CA-C	5.71	120.56	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	7-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	8-G	373	THR	CB-CA-C	5.71	120.56	110.85
5	1-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	2-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	3-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	4-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	5-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	6-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	7-Y	373	THR	CB-CA-C	5.71	120.56	110.85
5	8-Y	373	THR	CB-CA-C	5.71	120.56	110.85
1	1-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	1-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	1-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	1-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	1-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	2-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	2-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	2-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	2-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	2-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	3-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	3-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	3-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	3-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	3-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	4-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	4-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	4-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	4-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	4-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	5-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	5-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	5-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	5-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	5-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	6-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	6-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	6-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	6-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	6-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	7-Q	333	THR	N-CA-C	-5.70	105.15	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	7-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	7-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	7-Z	381	LYS	C-N-CA	5.70	129.48	120.47
1	8-Q	333	THR	N-CA-C	-5.70	105.15	111.71
5	8-S	373	THR	CB-CA-C	5.70	120.55	110.85
6	8-T	377	ARG	CA-C-O	5.70	128.66	120.51
6	8-Z	381	LYS	CA-C-N	5.70	129.48	120.47
6	8-Z	381	LYS	C-N-CA	5.70	129.48	120.47
3	1-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	2-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	3-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	4-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	5-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	6-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	7-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	8-D	1434	ARG	N-CA-C	-5.70	101.92	109.84
2	1-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	2-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	3-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	4-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	5-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	6-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	7-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
2	8-C	492	VAL	CB-CA-C	-5.70	104.45	112.14
6	1-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	1-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	2-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	2-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	3-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	3-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	4-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	4-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	5-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	5-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	6-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	6-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	7-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	7-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	8-N	377	ARG	CA-C-O	5.70	128.66	120.51
6	8-Z	377	ARG	CA-C-O	5.70	128.66	120.51
6	1-N	381	LYS	CA-C-N	5.70	129.47	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	1-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	2-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	2-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	2-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	3-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	3-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	3-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	4-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	4-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	4-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	5-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	5-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	5-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	6-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	6-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	6-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	7-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	7-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	7-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	8-N	381	LYS	CA-C-N	5.70	129.47	120.47
6	8-N	381	LYS	C-N-CA	5.70	129.47	120.47
3	8-P	1434	ARG	N-CA-C	-5.70	101.92	109.84
3	1-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	1-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	2-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	2-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	3-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	3-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	4-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	4-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	5-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	5-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	6-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	6-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	7-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	7-M	373	THR	CB-CA-C	5.69	120.53	110.85
3	8-D	1501	ASP	O-C-N	-5.69	116.08	122.12
5	8-M	373	THR	CB-CA-C	5.69	120.53	110.85
1	1-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	1-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	1-T	353	GLN	CA-C-N	5.69	127.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	2-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	2-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	2-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	2-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	3-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	3-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	3-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	3-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	4-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	4-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	4-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	4-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	5-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	5-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	5-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	5-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	6-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	6-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	6-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	6-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	7-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	7-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	7-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	7-T	353	GLN	C-N-CA	5.69	127.91	120.28
1	8-A	333	THR	N-CA-C	-5.69	105.16	111.71
5	8-G	361	ARG	N-CA-CB	-5.69	101.73	110.16
6	8-T	353	GLN	CA-C-N	5.69	127.91	120.28
6	8-T	353	GLN	C-N-CA	5.69	127.91	120.28
4	1-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	2-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	3-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	4-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	5-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	6-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	7-X	477	LEU	N-CA-CB	5.69	118.49	110.12
4	8-X	477	LEU	N-CA-CB	5.69	118.49	110.12
3	1-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	1-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	1-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	2-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	2-O	492	VAL	CB-CA-C	-5.69	104.46	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	3-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	3-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	3-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	4-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	4-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	4-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	5-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	5-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	5-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	6-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	6-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	6-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	7-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	7-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	7-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	8-J	1434	ARG	N-CA-C	-5.69	101.93	109.84
2	8-O	492	VAL	CB-CA-C	-5.69	104.46	112.14
4	8-X	152	LYS	N-CA-CB	5.69	118.39	109.69
3	1-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	1-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	1-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	2-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	2-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	2-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	3-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	3-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	3-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	4-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	4-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	4-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	5-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	5-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	5-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	6-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	6-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	6-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	7-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	7-M	382	PRO	CA-C-N	5.69	128.36	120.29
5	7-M	382	PRO	C-N-CA	5.69	128.36	120.29
3	8-J	1546	LEU	O-C-N	5.69	128.87	122.22
5	8-M	382	PRO	CA-C-N	5.69	128.36	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-M	382	PRO	C-N-CA	5.69	128.36	120.29
5	1-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	1-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	2-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	2-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	3-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	3-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	4-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	4-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	5-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	5-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	6-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	6-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	7-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	7-S	382	PRO	C-N-CA	5.68	128.36	120.29
5	8-S	382	PRO	CA-C-N	5.68	128.36	120.29
5	8-S	382	PRO	C-N-CA	5.68	128.36	120.29
4	1-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	2-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	3-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	4-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	5-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	6-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	7-X	446	ALA	N-CA-CB	5.68	118.25	110.01
4	8-X	446	ALA	N-CA-CB	5.68	118.25	110.01
1	1-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	1-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	1-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	1-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	1-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	1-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	2-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	2-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	2-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	2-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	2-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	2-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	3-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	3-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	3-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	3-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	3-L	152	LYS	N-CA-CB	5.68	118.38	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	4-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	4-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	4-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	4-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	4-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	4-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	5-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	5-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	5-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	5-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	5-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	5-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	6-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	6-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	6-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	6-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	6-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	6-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	7-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	7-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	7-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	7-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	7-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	7-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
1	8-E	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	8-F	152	LYS	N-CA-CB	5.68	118.38	109.69
5	8-G	382	PRO	CA-C-N	5.68	128.35	120.29
5	8-G	382	PRO	C-N-CA	5.68	128.35	120.29
4	8-L	152	LYS	N-CA-CB	5.68	118.38	109.69
5	8-Y	361	ARG	N-CA-CB	-5.68	101.75	110.16
6	1-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	1-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	1-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	1-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	2-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	2-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	2-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	2-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	3-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	3-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	3-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	4-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	4-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	4-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	4-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	5-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	5-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	5-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	5-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	6-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	6-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	6-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	6-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	7-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	7-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	7-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	7-R	152	LYS	N-CA-CB	5.68	118.38	109.69
6	8-H	377	ARG	CA-C-O	5.68	128.63	120.51
4	8-L	446	ALA	N-CA-CB	5.68	118.24	110.01
1	8-Q	535	ILE	CB-CA-C	-5.68	105.66	112.19
4	8-R	152	LYS	N-CA-CB	5.68	118.38	109.69
1	1-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	1-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	2-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	2-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	3-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	3-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	4-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	4-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	5-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	5-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	6-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	6-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	7-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	7-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
1	8-A	535	ILE	CB-CA-C	-5.68	105.66	112.19
2	8-I	492	VAL	CB-CA-C	-5.68	104.48	112.14
4	1-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	1-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	1-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	1-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	2-F	307	ILE	CA-C-N	5.67	128.48	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	2-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	2-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	3-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	3-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	3-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	3-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	4-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	4-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	4-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	4-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	5-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	5-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	5-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	5-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	6-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	6-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	6-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	6-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	7-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	7-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	7-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	7-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
4	8-F	307	ILE	CA-C-N	5.67	128.48	120.42
4	8-F	307	ILE	C-N-CA	5.67	128.48	120.42
1	8-K	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	8-S	361	ARG	N-CA-CB	-5.67	101.76	110.16
1	1-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	2-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	3-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	4-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	5-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	6-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	7-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
1	8-B	535	ILE	CB-CA-C	-5.67	105.67	112.19
5	1-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
5	2-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
5	3-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
5	4-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
5	5-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
5	6-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
5	7-M	361	ARG	N-CA-CB	-5.67	101.77	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-M	361	ARG	N-CA-CB	-5.67	101.77	110.16
2	1-C	482	MET	CA-C-N	5.67	131.90	121.70
2	1-C	482	MET	C-N-CA	5.67	131.90	121.70
4	1-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	1-K	312	MET	CA-C-N	5.67	131.90	121.70
1	1-K	312	MET	C-N-CA	5.67	131.90	121.70
4	1-L	436	SER	O-C-N	-5.67	115.34	122.20
2	1-O	482	MET	CA-C-N	5.67	131.90	121.70
2	1-O	482	MET	C-N-CA	5.67	131.90	121.70
5	1-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	1-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	2-C	482	MET	CA-C-N	5.67	131.90	121.70
2	2-C	482	MET	C-N-CA	5.67	131.90	121.70
4	2-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	2-K	312	MET	CA-C-N	5.67	131.90	121.70
1	2-K	312	MET	C-N-CA	5.67	131.90	121.70
4	2-L	436	SER	O-C-N	-5.67	115.34	122.20
2	2-O	482	MET	CA-C-N	5.67	131.90	121.70
2	2-O	482	MET	C-N-CA	5.67	131.90	121.70
5	2-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	2-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	3-C	482	MET	CA-C-N	5.67	131.90	121.70
2	3-C	482	MET	C-N-CA	5.67	131.90	121.70
4	3-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	3-K	312	MET	CA-C-N	5.67	131.90	121.70
1	3-K	312	MET	C-N-CA	5.67	131.90	121.70
4	3-L	436	SER	O-C-N	-5.67	115.34	122.20
2	3-O	482	MET	CA-C-N	5.67	131.90	121.70
2	3-O	482	MET	C-N-CA	5.67	131.90	121.70
5	3-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	3-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	4-C	482	MET	CA-C-N	5.67	131.90	121.70
2	4-C	482	MET	C-N-CA	5.67	131.90	121.70
4	4-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	4-K	312	MET	CA-C-N	5.67	131.90	121.70
1	4-K	312	MET	C-N-CA	5.67	131.90	121.70
4	4-L	436	SER	O-C-N	-5.67	115.34	122.20
2	4-O	482	MET	CA-C-N	5.67	131.90	121.70
2	4-O	482	MET	C-N-CA	5.67	131.90	121.70
5	4-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	4-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	5-C	482	MET	CA-C-N	5.67	131.90	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-C	482	MET	C-N-CA	5.67	131.90	121.70
4	5-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	5-K	312	MET	CA-C-N	5.67	131.90	121.70
1	5-K	312	MET	C-N-CA	5.67	131.90	121.70
4	5-L	436	SER	O-C-N	-5.67	115.34	122.20
2	5-O	482	MET	CA-C-N	5.67	131.90	121.70
2	5-O	482	MET	C-N-CA	5.67	131.90	121.70
5	5-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	5-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	6-C	482	MET	CA-C-N	5.67	131.90	121.70
2	6-C	482	MET	C-N-CA	5.67	131.90	121.70
4	6-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	6-K	312	MET	CA-C-N	5.67	131.90	121.70
1	6-K	312	MET	C-N-CA	5.67	131.90	121.70
4	6-L	436	SER	O-C-N	-5.67	115.34	122.20
2	6-O	482	MET	CA-C-N	5.67	131.90	121.70
2	6-O	482	MET	C-N-CA	5.67	131.90	121.70
5	6-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	6-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	7-C	482	MET	CA-C-N	5.67	131.90	121.70
2	7-C	482	MET	C-N-CA	5.67	131.90	121.70
4	7-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	7-K	312	MET	CA-C-N	5.67	131.90	121.70
1	7-K	312	MET	C-N-CA	5.67	131.90	121.70
4	7-L	436	SER	O-C-N	-5.67	115.34	122.20
2	7-O	482	MET	CA-C-N	5.67	131.90	121.70
2	7-O	482	MET	C-N-CA	5.67	131.90	121.70
5	7-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	7-Y	382	PRO	C-N-CA	5.67	128.34	120.29
2	8-C	482	MET	CA-C-N	5.67	131.90	121.70
2	8-C	482	MET	C-N-CA	5.67	131.90	121.70
4	8-F	446	ALA	N-CA-CB	5.67	118.23	110.01
1	8-K	312	MET	CA-C-N	5.67	131.90	121.70
1	8-K	312	MET	C-N-CA	5.67	131.90	121.70
4	8-L	436	SER	O-C-N	-5.67	115.34	122.20
2	8-O	482	MET	CA-C-N	5.67	131.90	121.70
2	8-O	482	MET	C-N-CA	5.67	131.90	121.70
5	8-Y	382	PRO	CA-C-N	5.67	128.34	120.29
5	8-Y	382	PRO	C-N-CA	5.67	128.34	120.29
6	1-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	1-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	1-N	353	GLN	CA-C-N	5.67	127.87	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	1-W	312	MET	CA-C-N	5.67	131.90	121.70
1	1-W	312	MET	C-N-CA	5.67	131.90	121.70
6	2-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	2-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	2-N	353	GLN	CA-C-N	5.67	127.87	120.28
6	2-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	2-W	312	MET	CA-C-N	5.67	131.90	121.70
1	2-W	312	MET	C-N-CA	5.67	131.90	121.70
6	3-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	3-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	3-N	353	GLN	CA-C-N	5.67	127.87	120.28
6	3-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	3-W	312	MET	CA-C-N	5.67	131.90	121.70
1	3-W	312	MET	C-N-CA	5.67	131.90	121.70
6	4-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	4-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	4-N	353	GLN	CA-C-N	5.67	127.87	120.28
6	4-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	4-W	312	MET	CA-C-N	5.67	131.90	121.70
1	4-W	312	MET	C-N-CA	5.67	131.90	121.70
6	5-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	5-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	5-N	353	GLN	CA-C-N	5.67	127.87	120.28
6	5-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	5-W	312	MET	CA-C-N	5.67	131.90	121.70
1	5-W	312	MET	C-N-CA	5.67	131.90	121.70
6	6-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	6-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	6-N	353	GLN	CA-C-N	5.67	127.87	120.28
6	6-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	6-W	312	MET	CA-C-N	5.67	131.90	121.70
1	6-W	312	MET	C-N-CA	5.67	131.90	121.70
6	7-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	7-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	7-N	353	GLN	CA-C-N	5.67	127.87	120.28
6	7-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	7-W	312	MET	CA-C-N	5.67	131.90	121.70
1	7-W	312	MET	C-N-CA	5.67	131.90	121.70
6	8-H	381	LYS	CA-C-N	5.67	129.42	120.47
6	8-H	381	LYS	C-N-CA	5.67	129.42	120.47
6	8-N	353	GLN	CA-C-N	5.67	127.87	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-N	353	GLN	C-N-CA	5.67	127.87	120.28
1	8-W	312	MET	CA-C-N	5.67	131.90	121.70
1	8-W	312	MET	C-N-CA	5.67	131.90	121.70
1	1-E	312	MET	CA-C-N	5.66	131.89	121.70
1	1-E	312	MET	C-N-CA	5.66	131.89	121.70
6	1-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	1-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	1-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	1-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	1-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	2-E	312	MET	CA-C-N	5.66	131.89	121.70
1	2-E	312	MET	C-N-CA	5.66	131.89	121.70
6	2-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	2-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	2-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	2-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	2-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	3-E	312	MET	CA-C-N	5.66	131.89	121.70
1	3-E	312	MET	C-N-CA	5.66	131.89	121.70
6	3-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	3-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	3-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	3-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	3-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	4-E	312	MET	CA-C-N	5.66	131.89	121.70
1	4-E	312	MET	C-N-CA	5.66	131.89	121.70
6	4-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	4-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	4-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	4-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	4-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	5-E	312	MET	CA-C-N	5.66	131.89	121.70
1	5-E	312	MET	C-N-CA	5.66	131.89	121.70
6	5-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	5-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	5-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	5-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	5-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	6-E	312	MET	CA-C-N	5.66	131.89	121.70
1	6-E	312	MET	C-N-CA	5.66	131.89	121.70
6	6-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	6-T	381	LYS	C-N-CA	5.66	129.42	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	6-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	6-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	7-E	312	MET	CA-C-N	5.66	131.89	121.70
1	7-E	312	MET	C-N-CA	5.66	131.89	121.70
6	7-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	7-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	7-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	7-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	7-Z	353	GLN	C-N-CA	5.66	127.87	120.28
1	8-E	312	MET	CA-C-N	5.66	131.89	121.70
1	8-E	312	MET	C-N-CA	5.66	131.89	121.70
6	8-T	381	LYS	CA-C-N	5.66	129.42	120.47
6	8-T	381	LYS	C-N-CA	5.66	129.42	120.47
5	8-Y	328	THR	O-C-N	-5.66	116.11	122.34
6	8-Z	353	GLN	CA-C-N	5.66	127.87	120.28
6	8-Z	353	GLN	C-N-CA	5.66	127.87	120.28
5	1-G	328	THR	O-C-N	-5.66	116.11	122.34
2	1-U	482	MET	CA-C-N	5.66	131.89	121.70
2	1-U	482	MET	C-N-CA	5.66	131.89	121.70
5	2-G	328	THR	O-C-N	-5.66	116.11	122.34
2	2-U	482	MET	CA-C-N	5.66	131.89	121.70
2	2-U	482	MET	C-N-CA	5.66	131.89	121.70
5	3-G	328	THR	O-C-N	-5.66	116.11	122.34
2	3-U	482	MET	CA-C-N	5.66	131.89	121.70
2	3-U	482	MET	C-N-CA	5.66	131.89	121.70
5	4-G	328	THR	O-C-N	-5.66	116.11	122.34
2	4-U	482	MET	CA-C-N	5.66	131.89	121.70
2	4-U	482	MET	C-N-CA	5.66	131.89	121.70
5	5-G	328	THR	O-C-N	-5.66	116.11	122.34
2	5-U	482	MET	CA-C-N	5.66	131.89	121.70
2	5-U	482	MET	C-N-CA	5.66	131.89	121.70
5	6-G	328	THR	O-C-N	-5.66	116.11	122.34
2	6-U	482	MET	CA-C-N	5.66	131.89	121.70
2	6-U	482	MET	C-N-CA	5.66	131.89	121.70
5	7-G	328	THR	O-C-N	-5.66	116.11	122.34
2	7-U	482	MET	CA-C-N	5.66	131.89	121.70
2	7-U	482	MET	C-N-CA	5.66	131.89	121.70
5	8-G	328	THR	O-C-N	-5.66	116.11	122.34
2	8-U	482	MET	CA-C-N	5.66	131.89	121.70
2	8-U	482	MET	C-N-CA	5.66	131.89	121.70
1	1-B	312	MET	CA-C-N	5.66	131.89	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-B	312	MET	C-N-CA	5.66	131.89	121.70
5	1-M	328	THR	O-C-N	-5.66	116.11	122.34
3	1-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	1-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	2-B	312	MET	CA-C-N	5.66	131.89	121.70
1	2-B	312	MET	C-N-CA	5.66	131.89	121.70
5	2-M	328	THR	O-C-N	-5.66	116.11	122.34
3	2-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	2-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	3-B	312	MET	CA-C-N	5.66	131.89	121.70
1	3-B	312	MET	C-N-CA	5.66	131.89	121.70
5	3-M	328	THR	O-C-N	-5.66	116.11	122.34
3	3-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	3-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	4-B	312	MET	CA-C-N	5.66	131.89	121.70
1	4-B	312	MET	C-N-CA	5.66	131.89	121.70
5	4-M	328	THR	O-C-N	-5.66	116.11	122.34
3	4-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	4-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	5-B	312	MET	CA-C-N	5.66	131.89	121.70
1	5-B	312	MET	C-N-CA	5.66	131.89	121.70
5	5-M	328	THR	O-C-N	-5.66	116.11	122.34
3	5-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	5-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	6-B	312	MET	CA-C-N	5.66	131.89	121.70
1	6-B	312	MET	C-N-CA	5.66	131.89	121.70
5	6-M	328	THR	O-C-N	-5.66	116.11	122.34
3	6-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	6-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	7-B	312	MET	CA-C-N	5.66	131.89	121.70
1	7-B	312	MET	C-N-CA	5.66	131.89	121.70
5	7-M	328	THR	O-C-N	-5.66	116.11	122.34
3	7-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	7-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
1	8-B	312	MET	CA-C-N	5.66	131.89	121.70
1	8-B	312	MET	C-N-CA	5.66	131.89	121.70
5	8-M	328	THR	O-C-N	-5.66	116.11	122.34
3	8-P	1451	ARG	N-CA-C	-5.66	98.74	110.80
2	8-U	492	VAL	CB-CA-C	-5.66	104.50	112.14
3	1-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	1-I	482	MET	CA-C-N	5.66	131.88	121.70
2	1-I	482	MET	C-N-CA	5.66	131.88	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	2-I	482	MET	CA-C-N	5.66	131.88	121.70
2	2-I	482	MET	C-N-CA	5.66	131.88	121.70
3	3-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	3-I	482	MET	CA-C-N	5.66	131.88	121.70
2	3-I	482	MET	C-N-CA	5.66	131.88	121.70
3	4-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	4-I	482	MET	CA-C-N	5.66	131.88	121.70
2	4-I	482	MET	C-N-CA	5.66	131.88	121.70
3	5-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	5-I	482	MET	CA-C-N	5.66	131.88	121.70
2	5-I	482	MET	C-N-CA	5.66	131.88	121.70
3	6-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	6-I	482	MET	CA-C-N	5.66	131.88	121.70
2	6-I	482	MET	C-N-CA	5.66	131.88	121.70
3	7-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	7-I	482	MET	CA-C-N	5.66	131.88	121.70
2	7-I	482	MET	C-N-CA	5.66	131.88	121.70
3	8-D	1451	ARG	N-CA-C	-5.66	98.75	110.80
2	8-I	482	MET	CA-C-N	5.66	131.88	121.70
2	8-I	482	MET	C-N-CA	5.66	131.88	121.70
5	1-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	1-I	482	MET	N-CA-C	5.66	122.85	110.80
5	1-M	408	GLU	CA-C-O	-5.66	114.42	120.42
5	2-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	2-I	482	MET	N-CA-C	5.66	122.85	110.80
5	2-M	408	GLU	CA-C-O	-5.66	114.42	120.42
5	3-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	3-I	482	MET	N-CA-C	5.66	122.85	110.80
5	3-M	408	GLU	CA-C-O	-5.66	114.42	120.42
5	4-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	4-I	482	MET	N-CA-C	5.66	122.85	110.80
5	4-M	408	GLU	CA-C-O	-5.66	114.42	120.42
5	5-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	5-I	482	MET	N-CA-C	5.66	122.85	110.80
5	5-M	408	GLU	CA-C-O	-5.66	114.42	120.42
5	6-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	6-I	482	MET	N-CA-C	5.66	122.85	110.80
5	6-M	408	GLU	CA-C-O	-5.66	114.42	120.42
5	7-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	7-I	482	MET	N-CA-C	5.66	122.85	110.80
5	7-M	408	GLU	CA-C-O	-5.66	114.42	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	408	GLU	CA-C-O	-5.66	114.42	120.42
2	8-I	482	MET	N-CA-C	5.66	122.85	110.80
5	8-M	408	GLU	CA-C-O	-5.66	114.42	120.42
4	1-F	436	SER	O-C-N	-5.66	115.36	122.20
4	1-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	1-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	2-F	436	SER	O-C-N	-5.66	115.36	122.20
4	2-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	2-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	3-F	436	SER	O-C-N	-5.66	115.36	122.20
4	3-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	3-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	4-F	436	SER	O-C-N	-5.66	115.36	122.20
4	4-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	4-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	5-F	436	SER	O-C-N	-5.66	115.36	122.20
4	5-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	5-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	6-F	436	SER	O-C-N	-5.66	115.36	122.20
4	6-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	6-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	7-F	436	SER	O-C-N	-5.66	115.36	122.20
4	7-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	7-R	483	ASP	C-N-CA	5.66	127.79	120.44
4	8-F	436	SER	O-C-N	-5.66	115.36	122.20
4	8-R	483	ASP	CA-C-N	5.66	127.79	120.44
4	8-R	483	ASP	C-N-CA	5.66	127.79	120.44
1	1-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	1-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	2-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	2-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	3-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	3-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	4-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	4-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	5-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	5-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	6-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	6-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	7-Q	312	MET	CA-C-N	5.65	131.88	121.70
1	7-Q	312	MET	C-N-CA	5.65	131.88	121.70
1	8-Q	312	MET	CA-C-N	5.65	131.88	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-Q	312	MET	C-N-CA	5.65	131.88	121.70
4	1-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	1-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	2-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	2-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	3-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	3-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	4-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	4-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	5-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	5-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	6-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	6-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	7-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	7-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	8-R	446	ALA	N-CA-CB	5.65	118.21	110.01
5	8-Y	408	GLU	CA-C-O	-5.65	114.43	120.42
4	1-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	1-S	328	THR	O-C-N	-5.65	116.12	122.34
4	2-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	2-S	328	THR	O-C-N	-5.65	116.12	122.34
4	3-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	3-S	328	THR	O-C-N	-5.65	116.12	122.34
4	4-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	4-S	328	THR	O-C-N	-5.65	116.12	122.34
4	5-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	5-S	328	THR	O-C-N	-5.65	116.12	122.34
4	6-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	6-S	328	THR	O-C-N	-5.65	116.12	122.34
4	7-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	7-S	328	THR	O-C-N	-5.65	116.12	122.34
4	8-L	477	LEU	N-CA-CB	5.65	118.43	110.12
5	8-S	328	THR	O-C-N	-5.65	116.12	122.34
1	1-A	312	MET	CA-C-N	5.65	131.86	121.70
1	1-A	312	MET	C-N-CA	5.65	131.86	121.70
2	1-O	482	MET	N-CA-C	5.65	122.83	110.80
1	2-A	312	MET	CA-C-N	5.65	131.86	121.70
1	2-A	312	MET	C-N-CA	5.65	131.86	121.70
2	2-O	482	MET	N-CA-C	5.65	122.83	110.80
1	3-A	312	MET	CA-C-N	5.65	131.86	121.70
1	3-A	312	MET	C-N-CA	5.65	131.86	121.70
2	3-O	482	MET	N-CA-C	5.65	122.83	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-A	312	MET	CA-C-N	5.65	131.86	121.70
1	4-A	312	MET	C-N-CA	5.65	131.86	121.70
2	4-O	482	MET	N-CA-C	5.65	122.83	110.80
1	5-A	312	MET	CA-C-N	5.65	131.86	121.70
1	5-A	312	MET	C-N-CA	5.65	131.86	121.70
2	5-O	482	MET	N-CA-C	5.65	122.83	110.80
1	6-A	312	MET	CA-C-N	5.65	131.86	121.70
1	6-A	312	MET	C-N-CA	5.65	131.86	121.70
2	6-O	482	MET	N-CA-C	5.65	122.83	110.80
1	7-A	312	MET	CA-C-N	5.65	131.86	121.70
1	7-A	312	MET	C-N-CA	5.65	131.86	121.70
2	7-O	482	MET	N-CA-C	5.65	122.83	110.80
1	8-A	312	MET	CA-C-N	5.65	131.86	121.70
1	8-A	312	MET	C-N-CA	5.65	131.86	121.70
2	8-O	482	MET	N-CA-C	5.65	122.83	110.80
3	1-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	1-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	1-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	1-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	1-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	2-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	2-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	2-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	2-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	2-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	3-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	3-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	3-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	3-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	3-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	4-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	4-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	4-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	4-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	4-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	5-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	5-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	5-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	5-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	5-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	6-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	6-V	1451	ARG	N-CA-C	-5.64	98.78	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	6-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	6-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	7-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	7-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	7-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	7-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	7-X	483	ASP	C-N-CA	5.64	127.78	120.44
3	8-J	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	8-V	1451	ARG	N-CA-C	-5.64	98.78	110.80
3	8-V	1502	ARG	O-C-N	5.64	128.58	122.15
4	8-X	483	ASP	CA-C-N	5.64	127.78	120.44
4	8-X	483	ASP	C-N-CA	5.64	127.78	120.44
5	1-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	2-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	3-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	4-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	5-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	6-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	7-S	408	GLU	CA-C-O	-5.64	114.44	120.42
5	8-S	408	GLU	CA-C-O	-5.64	114.44	120.42
4	1-R	471	GLN	O-C-N	5.64	128.58	122.15
4	2-R	471	GLN	O-C-N	5.64	128.58	122.15
4	3-R	471	GLN	O-C-N	5.64	128.58	122.15
4	4-R	471	GLN	O-C-N	5.64	128.58	122.15
4	5-R	471	GLN	O-C-N	5.64	128.58	122.15
4	6-R	471	GLN	O-C-N	5.64	128.58	122.15
4	7-R	471	GLN	O-C-N	5.64	128.58	122.15
4	8-R	471	GLN	O-C-N	5.64	128.58	122.15
4	1-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	1-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	1-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	2-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	2-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	2-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	3-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	3-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	3-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	4-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	4-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	4-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	5-F	477	LEU	N-CA-CB	5.64	118.41	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	5-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	6-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	6-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	6-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	7-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	7-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	7-F	483	ASP	C-N-CA	5.64	127.77	120.44
4	8-F	477	LEU	N-CA-CB	5.64	118.41	110.12
4	8-F	483	ASP	CA-C-N	5.64	127.77	120.44
4	8-F	483	ASP	C-N-CA	5.64	127.77	120.44
2	1-C	482	MET	N-CA-C	5.64	122.80	110.80
6	1-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	2-C	482	MET	N-CA-C	5.64	122.80	110.80
6	2-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	3-C	482	MET	N-CA-C	5.64	122.80	110.80
6	3-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	4-C	482	MET	N-CA-C	5.64	122.80	110.80
6	4-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	5-C	482	MET	N-CA-C	5.64	122.80	110.80
6	5-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	6-C	482	MET	N-CA-C	5.64	122.80	110.80
6	6-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	7-C	482	MET	N-CA-C	5.64	122.80	110.80
6	7-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	8-C	482	MET	N-CA-C	5.64	122.80	110.80
6	8-N	435	LYS	N-CA-C	-5.64	105.14	111.28
2	1-U	482	MET	N-CA-C	5.63	122.80	110.80
2	2-U	482	MET	N-CA-C	5.63	122.80	110.80
2	3-U	482	MET	N-CA-C	5.63	122.80	110.80
2	4-U	482	MET	N-CA-C	5.63	122.80	110.80
2	5-U	482	MET	N-CA-C	5.63	122.80	110.80
2	6-U	482	MET	N-CA-C	5.63	122.80	110.80
2	7-U	482	MET	N-CA-C	5.63	122.80	110.80
2	8-U	482	MET	N-CA-C	5.63	122.80	110.80
1	1-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	1-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	2-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	2-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	3-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	3-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	4-K	1237	SER	N-CA-C	-5.63	105.04	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	5-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	5-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	6-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	6-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	7-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	7-U	28	HIS	CA-C-O	5.63	127.47	121.11
1	8-K	1237	SER	N-CA-C	-5.63	105.04	111.07
2	8-U	28	HIS	CA-C-O	5.63	127.47	121.11
6	1-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	1-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	1-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	2-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	2-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	2-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	3-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	3-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	3-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	4-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	4-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	4-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	5-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	5-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	5-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	6-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	6-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	6-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	7-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	7-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	7-R	477	LEU	N-CA-CB	5.63	118.40	110.12
6	8-H	353	GLN	CA-C-N	5.63	127.83	120.28
6	8-H	353	GLN	C-N-CA	5.63	127.83	120.28
4	8-R	477	LEU	N-CA-CB	5.63	118.40	110.12
4	1-F	471	GLN	O-C-N	5.63	128.57	122.15
4	1-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	1-L	483	ASP	C-N-CA	5.63	127.76	120.44
4	2-F	471	GLN	O-C-N	5.63	128.57	122.15
4	2-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	2-L	483	ASP	C-N-CA	5.63	127.76	120.44
4	3-F	471	GLN	O-C-N	5.63	128.57	122.15
4	3-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	3-L	483	ASP	C-N-CA	5.63	127.76	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	471	GLN	O-C-N	5.63	128.57	122.15
4	4-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	4-L	483	ASP	C-N-CA	5.63	127.76	120.44
4	5-F	471	GLN	O-C-N	5.63	128.57	122.15
4	5-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	5-L	483	ASP	C-N-CA	5.63	127.76	120.44
4	6-F	471	GLN	O-C-N	5.63	128.57	122.15
4	6-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	6-L	483	ASP	C-N-CA	5.63	127.76	120.44
4	7-F	471	GLN	O-C-N	5.63	128.57	122.15
4	7-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	7-L	483	ASP	C-N-CA	5.63	127.76	120.44
4	8-F	471	GLN	O-C-N	5.63	128.57	122.15
4	8-L	483	ASP	CA-C-N	5.63	127.76	120.44
4	8-L	483	ASP	C-N-CA	5.63	127.76	120.44
1	1-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	1-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	1-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	1-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	2-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	2-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	2-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	2-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	3-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	3-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	3-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	3-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	4-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	4-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	4-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	4-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	5-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	5-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	5-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	5-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	6-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	6-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	6-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	6-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	7-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	7-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	7-E	442	GLN	CA-C-N	5.63	135.53	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-E	442	GLN	C-N-CA	5.63	135.53	121.80
1	8-B	442	GLN	CA-C-N	5.63	135.53	121.80
1	8-B	442	GLN	C-N-CA	5.63	135.53	121.80
1	8-E	442	GLN	CA-C-N	5.63	135.53	121.80
1	8-E	442	GLN	C-N-CA	5.63	135.53	121.80
6	1-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	2-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	3-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	4-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	5-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	6-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	7-T	435	LYS	N-CA-C	-5.62	105.15	111.28
6	8-T	435	LYS	N-CA-C	-5.62	105.15	111.28
4	1-L	471	GLN	O-C-N	5.62	128.56	122.15
4	1-X	471	GLN	O-C-N	5.62	128.56	122.15
4	2-L	471	GLN	O-C-N	5.62	128.56	122.15
4	2-X	471	GLN	O-C-N	5.62	128.56	122.15
4	3-L	471	GLN	O-C-N	5.62	128.56	122.15
4	3-X	471	GLN	O-C-N	5.62	128.56	122.15
4	4-L	471	GLN	O-C-N	5.62	128.56	122.15
4	4-X	471	GLN	O-C-N	5.62	128.56	122.15
4	5-L	471	GLN	O-C-N	5.62	128.56	122.15
4	5-X	471	GLN	O-C-N	5.62	128.56	122.15
4	6-L	471	GLN	O-C-N	5.62	128.56	122.15
4	6-X	471	GLN	O-C-N	5.62	128.56	122.15
4	7-L	471	GLN	O-C-N	5.62	128.56	122.15
4	7-X	471	GLN	O-C-N	5.62	128.56	122.15
4	8-L	471	GLN	O-C-N	5.62	128.56	122.15
4	8-X	471	GLN	O-C-N	5.62	128.56	122.15
1	1-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	1-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	2-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	2-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	3-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	3-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	4-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	4-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	5-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	5-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	6-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	6-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	7-W	442	GLN	CA-C-N	5.62	135.51	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	8-W	442	GLN	CA-C-N	5.62	135.51	121.80
1	8-W	442	GLN	C-N-CA	5.62	135.51	121.80
1	1-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	1-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	1-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	1-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	2-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	2-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	2-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	2-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	3-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	3-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	3-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	3-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	4-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	4-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	4-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	4-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	5-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	5-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	5-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	5-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	6-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	6-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	6-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	6-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	7-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	7-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	7-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	7-Q	442	GLN	C-N-CA	5.62	135.51	121.80
1	8-K	442	GLN	CA-C-N	5.62	135.51	121.80
1	8-K	442	GLN	C-N-CA	5.62	135.51	121.80
1	8-Q	442	GLN	CA-C-N	5.62	135.51	121.80
1	8-Q	442	GLN	C-N-CA	5.62	135.51	121.80
4	1-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	1-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	2-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	2-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	3-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	3-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	4-L	307	ILE	CA-C-N	5.62	128.39	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	5-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	5-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	6-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	6-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	7-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	7-L	307	ILE	C-N-CA	5.62	128.39	120.42
4	8-L	307	ILE	CA-C-N	5.62	128.39	120.42
4	8-L	307	ILE	C-N-CA	5.62	128.39	120.42
5	1-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	1-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	2-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	2-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	3-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	3-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	4-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	4-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	5-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	5-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	6-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	6-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	7-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	7-I	28	HIS	CA-C-O	5.61	127.45	121.11
5	8-G	350	VAL	CB-CA-C	-5.61	104.78	111.97
2	8-I	28	HIS	CA-C-O	5.61	127.45	121.11
3	1-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	2-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	3-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	4-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	5-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	6-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	7-P	1502	ARG	O-C-N	5.61	128.55	122.15
3	8-P	1502	ARG	O-C-N	5.61	128.55	122.15
1	1-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	1-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	2-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	2-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	3-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	3-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	4-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	4-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	5-A	442	GLN	CA-C-N	5.61	135.49	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	6-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	6-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	7-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	7-A	442	GLN	C-N-CA	5.61	135.49	121.80
1	8-A	442	GLN	CA-C-N	5.61	135.49	121.80
1	8-A	442	GLN	C-N-CA	5.61	135.49	121.80
4	1-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	1-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	1-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	1-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	1-X	307	ILE	C-N-CA	5.61	128.38	120.42
4	2-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	2-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	2-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	2-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	2-X	307	ILE	C-N-CA	5.61	128.38	120.42
4	3-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	3-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	3-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	3-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	3-X	307	ILE	C-N-CA	5.61	128.38	120.42
4	4-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	4-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	4-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	4-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	4-X	307	ILE	C-N-CA	5.61	128.38	120.42
4	5-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	5-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	5-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	5-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	5-X	307	ILE	C-N-CA	5.61	128.38	120.42
4	6-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	6-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	6-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	6-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	6-X	307	ILE	C-N-CA	5.61	128.38	120.42
4	7-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	7-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	7-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	7-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	7-X	307	ILE	C-N-CA	5.61	128.38	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	307	ILE	CA-C-N	5.61	128.38	120.42
4	8-R	307	ILE	C-N-CA	5.61	128.38	120.42
2	8-U	1	MET	CB-CA-C	-5.61	99.44	110.10
4	8-X	307	ILE	CA-C-N	5.61	128.38	120.42
4	8-X	307	ILE	C-N-CA	5.61	128.38	120.42
2	1-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	1-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	1-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	2-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	2-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	2-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	3-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	3-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	3-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	4-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	4-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	4-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	5-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	5-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	5-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	6-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	6-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	6-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	7-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	7-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	7-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
2	8-O	11	GLN	CA-C-N	5.61	128.11	120.54
2	8-O	11	GLN	C-N-CA	5.61	128.11	120.54
6	8-Z	435	LYS	N-CA-C	-5.61	105.17	111.28
4	1-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	2-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	3-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	4-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	5-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	6-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	7-R	474	LEU	CA-C-O	-5.60	114.48	120.42
4	8-R	474	LEU	CA-C-O	-5.60	114.48	120.42
2	1-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	1-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	1-M	329	GLN	O-C-N	5.60	129.77	122.15
2	2-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	2-I	577	SER	N-CA-C	-5.60	104.80	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-M	329	GLN	O-C-N	5.60	129.77	122.15
2	3-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	3-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	3-M	329	GLN	O-C-N	5.60	129.77	122.15
2	4-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	4-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	4-M	329	GLN	O-C-N	5.60	129.77	122.15
2	5-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	5-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	5-M	329	GLN	O-C-N	5.60	129.77	122.15
2	6-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	6-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	6-M	329	GLN	O-C-N	5.60	129.77	122.15
2	7-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	7-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	7-M	329	GLN	O-C-N	5.60	129.77	122.15
2	8-C	437	LEU	N-CA-C	-5.60	105.17	111.28
2	8-I	577	SER	N-CA-C	-5.60	104.80	111.69
5	8-M	329	GLN	O-C-N	5.60	129.77	122.15
1	1-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	1-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	2-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	2-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	3-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	3-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	4-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	4-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	5-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	5-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	6-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	6-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	7-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	7-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
1	8-E	1237	SER	N-CA-C	-5.60	105.08	111.07
4	8-L	438	ILE	CB-CA-C	-5.60	104.58	112.14
4	1-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	1-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	1-X	436	SER	O-C-N	-5.60	115.43	122.20
4	2-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	2-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	2-X	436	SER	O-C-N	-5.60	115.43	122.20
4	3-F	474	LEU	CA-C-O	-5.60	114.49	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	3-X	436	SER	O-C-N	-5.60	115.43	122.20
4	4-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	4-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	4-X	436	SER	O-C-N	-5.60	115.43	122.20
4	5-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	5-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	5-X	436	SER	O-C-N	-5.60	115.43	122.20
4	6-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	6-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	6-X	436	SER	O-C-N	-5.60	115.43	122.20
4	7-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	7-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	7-X	436	SER	O-C-N	-5.60	115.43	122.20
4	8-F	474	LEU	CA-C-O	-5.60	114.49	120.42
4	8-R	334	LEU	N-CA-C	-5.60	104.56	111.33
4	8-X	436	SER	O-C-N	-5.60	115.43	122.20
4	1-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	1-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	1-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	1-S	329	GLN	O-C-N	5.59	129.76	122.15
6	1-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	2-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	2-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	2-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	2-S	329	GLN	O-C-N	5.59	129.76	122.15
6	2-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	3-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	3-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	3-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	3-S	329	GLN	O-C-N	5.59	129.76	122.15
6	3-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	4-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	4-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	4-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	4-S	329	GLN	O-C-N	5.59	129.76	122.15
6	4-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	5-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	5-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	5-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	5-S	329	GLN	O-C-N	5.59	129.76	122.15
6	5-Z	387	LYS	CA-C-O	5.59	126.48	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	6-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	6-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	6-S	329	GLN	O-C-N	5.59	129.76	122.15
6	6-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	7-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	7-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	7-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	7-S	329	GLN	O-C-N	5.59	129.76	122.15
6	7-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	8-F	334	LEU	N-CA-C	-5.59	104.56	111.33
6	8-H	387	LYS	CA-C-O	5.59	126.48	120.55
6	8-H	435	LYS	N-CA-C	-5.59	105.18	111.28
5	8-S	329	GLN	O-C-N	5.59	129.76	122.15
6	8-Z	387	LYS	CA-C-O	5.59	126.48	120.55
4	1-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	1-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	2-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	2-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	3-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	3-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	4-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	4-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	5-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	5-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	6-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	6-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	7-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	7-U	577	SER	N-CA-C	-5.59	104.81	111.69
4	8-L	474	LEU	CA-C-O	-5.59	114.49	120.42
2	8-U	577	SER	N-CA-C	-5.59	104.81	111.69
1	1-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	1-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	1-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	1-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	2-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	2-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	2-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	2-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	3-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	3-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	3-O	1	MET	CB-CA-C	-5.59	99.48	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	4-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	4-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	4-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	4-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	5-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	5-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	5-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	5-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	6-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	6-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	6-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	6-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	7-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	7-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	7-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	7-X	474	LEU	CA-C-O	-5.59	114.49	120.42
1	8-B	238	VAL	CB-CA-C	-5.59	102.31	110.81
2	8-I	1	MET	CB-CA-C	-5.59	99.48	110.10
2	8-O	1	MET	CB-CA-C	-5.59	99.48	110.10
4	8-X	474	LEU	CA-C-O	-5.59	114.49	120.42
5	1-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	1-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	2-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	2-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	3-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	3-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	4-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	4-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	5-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	5-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	6-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	6-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	7-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	7-U	437	LEU	N-CA-C	-5.59	105.19	111.28
5	8-M	350	VAL	CB-CA-C	-5.59	104.81	111.97
2	8-U	437	LEU	N-CA-C	-5.59	105.19	111.28
1	1-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	1-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	2-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	2-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	3-B	230	GLY	N-CA-C	-5.59	104.92	112.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	4-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	4-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	5-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	5-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	6-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	6-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	7-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	7-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
1	8-B	230	GLY	N-CA-C	-5.59	104.92	112.57
1	8-Q	1237	SER	N-CA-C	-5.59	105.09	111.07
2	1-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	2-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	3-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	4-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	5-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	6-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	7-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	8-O	437	LEU	N-CA-C	-5.58	105.19	111.28
2	1-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	1-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	1-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	1-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	2-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	2-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	2-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	2-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	3-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	3-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	3-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	3-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	4-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	4-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	4-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	4-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	5-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	5-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	5-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	5-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	6-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	6-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	6-R	438	ILE	CB-CA-C	-5.58	104.60	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	7-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	7-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	7-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	7-Y	329	GLN	O-C-N	5.58	129.74	122.15
2	8-I	11	GLN	CA-C-N	5.58	128.08	120.54
2	8-I	11	GLN	C-N-CA	5.58	128.08	120.54
4	8-R	438	ILE	CB-CA-C	-5.58	104.60	112.14
5	8-Y	329	GLN	O-C-N	5.58	129.74	122.15
3	1-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	1-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	1-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	1-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	1-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	2-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	2-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	2-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	2-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	2-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	3-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	3-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	3-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	3-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	3-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	4-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	4-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	4-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	4-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	4-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	5-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	5-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	5-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	5-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	5-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	6-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	6-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	6-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	6-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	6-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	7-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	7-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	7-U	11	GLN	CA-C-N	5.58	128.07	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	7-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	7-W	1237	SER	N-CA-C	-5.58	105.10	111.07
3	8-D	1502	ARG	O-C-N	5.58	128.51	122.15
2	8-O	577	SER	N-CA-C	-5.58	104.82	111.69
2	8-U	11	GLN	CA-C-N	5.58	128.07	120.54
2	8-U	11	GLN	C-N-CA	5.58	128.07	120.54
1	8-W	1237	SER	N-CA-C	-5.58	105.10	111.07
6	1-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	2-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	3-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	4-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	5-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	6-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	7-T	387	LYS	CA-C-O	5.58	126.46	120.55
6	8-T	387	LYS	CA-C-O	5.58	126.46	120.55
1	1-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	1-G	329	GLN	O-C-N	5.58	129.74	122.15
1	1-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	1-R	436	SER	O-C-N	-5.58	115.45	122.20
1	2-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	2-G	329	GLN	O-C-N	5.58	129.74	122.15
1	2-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	2-R	436	SER	O-C-N	-5.58	115.45	122.20
1	3-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	3-G	329	GLN	O-C-N	5.58	129.74	122.15
1	3-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	3-R	436	SER	O-C-N	-5.58	115.45	122.20
1	4-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	4-G	329	GLN	O-C-N	5.58	129.74	122.15
1	4-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	4-R	436	SER	O-C-N	-5.58	115.45	122.20
1	5-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	5-G	329	GLN	O-C-N	5.58	129.74	122.15
1	5-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	5-R	436	SER	O-C-N	-5.58	115.45	122.20
1	6-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	6-G	329	GLN	O-C-N	5.58	129.74	122.15
1	6-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	6-R	436	SER	O-C-N	-5.58	115.45	122.20
1	7-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	7-G	329	GLN	O-C-N	5.58	129.74	122.15
1	7-K	440	PRO	N-CA-C	-5.58	106.89	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7-R	436	SER	O-C-N	-5.58	115.45	122.20
1	8-B	440	PRO	N-CA-C	-5.58	106.89	113.86
5	8-G	329	GLN	O-C-N	5.58	129.74	122.15
1	8-K	440	PRO	N-CA-C	-5.58	106.89	113.86
4	8-R	436	SER	O-C-N	-5.58	115.45	122.20
1	1-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	1-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	2-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	2-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	3-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	3-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	4-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	4-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	5-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	5-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	6-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	6-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	7-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	7-C	1	MET	CB-CA-C	-5.58	99.51	110.10
1	8-A	440	PRO	N-CA-C	-5.58	106.89	113.86
2	8-C	1	MET	CB-CA-C	-5.58	99.51	110.10
3	1-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	1-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	1-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	1-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	2-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	2-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	2-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	2-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	3-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	3-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	3-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	3-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	4-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	4-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	4-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	4-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	5-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	5-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	5-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	5-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	6-J	1655	THR	N-CA-C	-5.57	104.83	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	6-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	6-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	7-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	7-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	7-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	7-W	230	GLY	N-CA-C	-5.57	104.94	112.57
3	8-J	1655	THR	N-CA-C	-5.57	104.83	111.69
1	8-K	230	GLY	N-CA-C	-5.57	104.93	112.57
1	8-Q	230	GLY	N-CA-C	-5.57	104.94	112.57
1	8-W	230	GLY	N-CA-C	-5.57	104.94	112.57
2	1-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	1-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	1-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	2-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	2-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	2-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	3-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	3-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	3-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	4-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	4-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	4-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	5-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	5-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	5-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	6-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	6-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	6-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	7-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	7-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	7-X	334	LEU	N-CA-C	-5.57	104.59	111.33
2	8-C	577	SER	N-CA-C	-5.57	104.84	111.69
4	8-F	438	ILE	CB-CA-C	-5.57	104.62	112.14
4	8-X	334	LEU	N-CA-C	-5.57	104.59	111.33
5	1-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	1-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	2-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	2-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	3-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	3-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	4-S	350	VAL	CB-CA-C	-5.57	104.84	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	5-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	5-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	6-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	6-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	7-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	7-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	8-S	350	VAL	CB-CA-C	-5.57	104.84	111.97
5	8-Y	350	VAL	CB-CA-C	-5.57	104.84	111.97
3	1-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	1-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	1-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	1-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	2-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	2-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	2-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	2-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	3-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	3-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	3-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	3-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	4-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	4-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	4-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	4-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	5-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	5-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	5-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	5-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	6-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	6-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	6-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	6-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	7-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	7-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	7-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	7-T	430	ARG	CA-C-O	5.57	126.53	120.12
3	8-J	1502	ARG	O-C-N	5.57	128.50	122.15
5	8-M	304	ASN	N-CA-CB	5.57	119.63	110.39
6	8-N	387	LYS	CA-C-O	5.57	126.45	120.55
6	8-T	430	ARG	CA-C-O	5.57	126.53	120.12
2	1-C	28	HIS	CA-C-O	5.57	127.40	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	1-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	1-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	2-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	2-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	2-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	2-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	3-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	3-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	3-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	3-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	4-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	4-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	4-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	4-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	5-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	5-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	5-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	5-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	6-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	6-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	6-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	6-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	7-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	7-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	7-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	7-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
2	8-C	28	HIS	CA-C-O	5.57	127.40	121.11
6	8-H	430	ARG	CA-C-O	5.57	126.52	120.12
2	8-I	437	LEU	N-CA-C	-5.57	105.21	111.28
4	8-X	438	ILE	CB-CA-C	-5.57	104.62	112.14
1	1-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	1-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	1-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	1-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	1-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	2-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	2-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	2-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	2-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	2-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	3-K	443	LYS	N-CA-CB	5.57	120.28	110.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	3-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	3-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	3-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	4-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	4-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	4-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	4-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	4-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	5-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	5-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	5-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	5-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	5-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	6-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	6-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	6-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	6-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	6-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	7-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	7-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	7-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	7-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	7-Z	430	ARG	CA-C-O	5.57	126.52	120.12
1	8-K	443	LYS	N-CA-CB	5.57	120.28	110.37
4	8-L	323	ILE	N-CA-CB	5.57	116.40	111.67
3	8-P	1655	THR	N-CA-C	-5.57	104.84	111.69
3	8-V	1655	THR	N-CA-C	-5.57	104.84	111.69
6	8-Z	430	ARG	CA-C-O	5.57	126.52	120.12
2	1-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	1-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	1-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	2-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	2-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	2-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	3-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	3-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	3-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	4-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	4-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	4-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	5-I	215	LEU	CA-C-N	5.56	132.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	5-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	6-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	6-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	6-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	7-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	7-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	7-W	440	PRO	N-CA-C	-5.56	106.90	113.86
2	8-I	215	LEU	CA-C-N	5.56	132.17	121.54
2	8-I	215	LEU	C-N-CA	5.56	132.17	121.54
1	8-W	440	PRO	N-CA-C	-5.56	106.90	113.86
6	1-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	2-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	3-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	4-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	5-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	6-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	7-N	430	ARG	CA-C-O	5.56	126.52	120.12
6	8-N	430	ARG	CA-C-O	5.56	126.52	120.12
4	1-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	2-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	3-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	4-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	5-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	6-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	7-F	471	GLN	N-CA-C	-5.56	105.30	111.36
4	8-F	471	GLN	N-CA-C	-5.56	105.30	111.36
1	1-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	1-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	1-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	1-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	1-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	1-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	1-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	1-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	1-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	2-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	2-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	2-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	2-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	2-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	2-R	471	GLN	N-CA-C	-5.56	105.30	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	2-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	2-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	3-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	3-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	3-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	3-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	3-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	3-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	3-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	3-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	3-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	4-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	4-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	4-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	4-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	4-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	4-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	4-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	4-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	4-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	5-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	5-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	5-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	5-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	5-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	5-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	5-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	5-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	5-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	6-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	6-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	6-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	6-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	6-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	6-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	6-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	6-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	6-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	7-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	7-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	7-G	278	LYS	CA-C-N	5.56	127.67	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	7-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	7-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	7-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	7-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	7-Y	278	LYS	C-N-CA	5.56	127.67	120.44
1	8-B	407	LYS	CA-C-N	5.56	129.25	120.47
1	8-B	407	LYS	C-N-CA	5.56	129.25	120.47
5	8-G	278	LYS	CA-C-N	5.56	127.67	120.44
5	8-G	278	LYS	C-N-CA	5.56	127.67	120.44
5	8-G	304	ASN	N-CA-CB	5.56	119.61	110.39
4	8-R	471	GLN	N-CA-C	-5.56	105.30	111.36
1	8-W	238	VAL	CB-CA-C	-5.56	102.36	110.81
5	8-Y	278	LYS	CA-C-N	5.56	127.67	120.44
5	8-Y	278	LYS	C-N-CA	5.56	127.67	120.44
2	1-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	1-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	2-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	2-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	3-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	3-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	4-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	4-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	5-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	5-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	6-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	6-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	7-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	7-C	360	ASP	C-N-CA	-5.56	114.67	123.12
2	8-C	360	ASP	CA-C-N	-5.56	114.67	123.12
2	8-C	360	ASP	C-N-CA	-5.56	114.67	123.12
1	1-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	1-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	1-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	2-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	2-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	2-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	3-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	3-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	3-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	4-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	4-K	407	LYS	C-N-CA	5.55	129.25	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	5-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	5-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	5-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	6-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	6-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	6-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	7-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	7-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	7-S	304	ASN	N-CA-CB	5.55	119.61	110.39
1	8-K	407	LYS	CA-C-N	5.55	129.25	120.47
1	8-K	407	LYS	C-N-CA	5.55	129.25	120.47
5	8-S	304	ASN	N-CA-CB	5.55	119.61	110.39
2	1-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	1-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	2-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	2-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	3-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	3-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	4-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	4-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	5-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	5-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	6-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	6-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	7-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	7-C	11	GLN	C-N-CA	5.55	128.04	120.54
2	8-C	11	GLN	CA-C-N	5.55	128.04	120.54
2	8-C	11	GLN	C-N-CA	5.55	128.04	120.54
1	1-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	1-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	1-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	1-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	2-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	2-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	2-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	2-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	3-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	3-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	3-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	3-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	4-E	230	GLY	N-CA-C	-5.55	104.96	112.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	4-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	4-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	5-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	5-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	5-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	5-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	6-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	6-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	6-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	6-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	7-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	7-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	7-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	7-U	215	LEU	C-N-CA	5.55	132.14	121.54
1	8-E	230	GLY	N-CA-C	-5.55	104.96	112.57
1	8-K	920	TYR	N-CA-CB	5.55	118.28	110.12
2	8-U	215	LEU	CA-C-N	5.55	132.14	121.54
2	8-U	215	LEU	C-N-CA	5.55	132.14	121.54
4	1-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	1-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	1-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	1-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	1-R	416	THR	O-C-N	5.55	127.79	122.07
4	2-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	2-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	2-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	2-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	2-R	416	THR	O-C-N	5.55	127.79	122.07
4	3-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	3-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	3-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	3-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	3-R	416	THR	O-C-N	5.55	127.79	122.07
4	4-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	4-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	4-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	4-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	4-R	416	THR	O-C-N	5.55	127.79	122.07
4	5-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	5-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	5-O	360	ASP	C-N-CA	-5.55	114.69	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	5-R	416	THR	O-C-N	5.55	127.79	122.07
4	6-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	6-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	6-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	6-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	6-R	416	THR	O-C-N	5.55	127.79	122.07
4	7-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	7-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	7-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	7-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	7-R	416	THR	O-C-N	5.55	127.79	122.07
4	8-L	334	LEU	N-CA-C	-5.55	104.61	111.33
2	8-O	360	ASP	CA-C-N	-5.55	114.69	123.12
2	8-O	360	ASP	C-N-CA	-5.55	114.69	123.12
4	8-R	323	ILE	N-CA-CB	5.55	116.39	111.67
4	8-R	416	THR	O-C-N	5.55	127.79	122.07
2	1-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	1-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	1-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	2-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	2-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	2-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	3-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	3-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	3-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	4-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	4-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	4-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	5-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	5-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	5-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	6-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	6-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	6-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	7-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	7-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	7-E	443	LYS	N-CA-CB	5.55	120.25	110.37
2	8-C	215	LEU	CA-C-N	5.55	132.14	121.54
2	8-C	215	LEU	C-N-CA	5.55	132.14	121.54
1	8-E	443	LYS	N-CA-CB	5.55	120.25	110.37
4	1-X	471	GLN	N-CA-C	-5.55	105.31	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	471	GLN	N-CA-C	-5.55	105.31	111.36
4	3-X	471	GLN	N-CA-C	-5.55	105.31	111.36
4	4-X	471	GLN	N-CA-C	-5.55	105.31	111.36
4	5-X	471	GLN	N-CA-C	-5.55	105.31	111.36
4	6-X	471	GLN	N-CA-C	-5.55	105.31	111.36
4	7-X	471	GLN	N-CA-C	-5.55	105.31	111.36
4	8-X	471	GLN	N-CA-C	-5.55	105.31	111.36
1	1-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	1-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	1-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	1-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	2-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	2-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	2-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	2-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	3-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	3-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	3-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	3-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	4-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	4-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	4-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	4-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	5-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	5-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	5-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	5-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	6-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	6-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	6-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	6-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	7-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	7-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	7-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	7-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
1	8-B	443	LYS	N-CA-CB	5.54	120.24	110.37
3	8-D	1655	THR	N-CA-C	-5.54	104.87	111.69
1	8-W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	8-Y	304	ASN	N-CA-CB	5.54	119.59	110.39
5	1-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	1-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	1-O	215	LEU	CA-C-N	5.54	132.13	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	1-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	1-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	2-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	2-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	2-O	215	LEU	CA-C-N	5.54	132.13	121.54
2	2-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	2-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	2-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	3-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	3-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	3-O	215	LEU	CA-C-N	5.54	132.13	121.54
2	3-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	3-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	3-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	4-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	4-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	4-O	215	LEU	CA-C-N	5.54	132.13	121.54
2	4-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	4-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	4-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	5-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	5-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	5-O	215	LEU	CA-C-N	5.54	132.13	121.54
2	5-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	5-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	5-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	6-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	6-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	6-O	215	LEU	CA-C-N	5.54	132.13	121.54
2	6-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	6-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	6-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	7-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	7-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	7-O	215	LEU	CA-C-N	5.54	132.13	121.54
2	7-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	7-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	7-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
5	8-M	278	LYS	CA-C-N	5.54	127.65	120.44
5	8-M	278	LYS	C-N-CA	5.54	127.65	120.44
2	8-O	215	LEU	CA-C-N	5.54	132.13	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-O	215	LEU	C-N-CA	5.54	132.13	121.54
1	8-Q	443	LYS	N-CA-CB	5.54	120.24	110.37
1	8-Q	855	ILE	N-CA-CB	5.54	118.90	110.58
1	1-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	1-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	2-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	2-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	3-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	3-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	4-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	4-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	5-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	5-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	6-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	6-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	7-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	7-A	443	LYS	N-CA-CB	5.54	120.24	110.37
1	8-A	230	GLY	N-CA-C	-5.54	104.98	112.57
1	8-A	443	LYS	N-CA-CB	5.54	120.24	110.37
4	1-X	416	THR	O-C-N	5.54	127.78	122.07
4	2-X	416	THR	O-C-N	5.54	127.78	122.07
4	3-X	416	THR	O-C-N	5.54	127.78	122.07
4	4-X	416	THR	O-C-N	5.54	127.78	122.07
4	5-X	416	THR	O-C-N	5.54	127.78	122.07
4	6-X	416	THR	O-C-N	5.54	127.78	122.07
4	7-X	416	THR	O-C-N	5.54	127.78	122.07
4	8-X	416	THR	O-C-N	5.54	127.78	122.07
4	1-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	2-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	3-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	4-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	5-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	6-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	7-F	323	ILE	N-CA-CB	5.54	116.38	111.67
4	8-F	323	ILE	N-CA-CB	5.54	116.38	111.67
1	1-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	1-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	2-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	2-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	3-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	3-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	4-E	920	TYR	N-CA-CB	5.54	118.26	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	5-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	5-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	6-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	6-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	7-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	7-R	365	GLN	CA-C-O	-5.54	115.00	120.70
1	8-E	920	TYR	N-CA-CB	5.54	118.26	110.12
4	8-R	365	GLN	CA-C-O	-5.54	115.00	120.70
2	1-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	1-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	2-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	2-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	3-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	3-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	4-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	4-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	5-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	5-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	6-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	6-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	7-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	7-C	394	ILE	C-N-CA	5.54	127.25	120.22
2	8-C	394	ILE	CA-C-N	5.54	127.25	120.22
2	8-C	394	ILE	C-N-CA	5.54	127.25	120.22
5	1-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	1-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	1-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	1-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	1-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	1-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	2-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	2-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	2-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	2-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	2-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	2-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	3-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	3-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	3-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	3-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	3-W	407	LYS	CA-C-N	5.53	129.21	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	4-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	4-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	4-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	4-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	4-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	4-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	5-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	5-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	5-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	5-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	5-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	5-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	6-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	6-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	6-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	6-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	6-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	6-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	7-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	7-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	7-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	7-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	7-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	7-W	407	LYS	C-N-CA	5.53	129.21	120.47
5	8-G	383	GLN	N-CA-C	-5.53	105.33	111.36
2	8-O	28	HIS	N-CA-C	5.53	118.57	109.72
2	8-U	305	LEU	CA-C-N	5.53	126.76	119.84
2	8-U	305	LEU	C-N-CA	5.53	126.76	119.84
1	8-W	407	LYS	CA-C-N	5.53	129.21	120.47
1	8-W	407	LYS	C-N-CA	5.53	129.21	120.47
4	1-F	416	THR	O-C-N	5.53	127.77	122.07
6	1-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	1-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	2-F	416	THR	O-C-N	5.53	127.77	122.07
6	2-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	2-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	3-F	416	THR	O-C-N	5.53	127.77	122.07
6	3-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	3-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	4-F	416	THR	O-C-N	5.53	127.77	122.07
6	4-T	390	ASP	CA-C-N	-5.53	112.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	5-F	416	THR	O-C-N	5.53	127.77	122.07
6	5-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	5-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	6-F	416	THR	O-C-N	5.53	127.77	122.07
6	6-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	6-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	7-F	416	THR	O-C-N	5.53	127.77	122.07
6	7-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	7-T	390	ASP	C-N-CA	-5.53	112.31	120.28
4	8-F	416	THR	O-C-N	5.53	127.77	122.07
6	8-T	390	ASP	CA-C-N	-5.53	112.31	120.28
6	8-T	390	ASP	C-N-CA	-5.53	112.31	120.28
1	1-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	1-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	2-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	2-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	3-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	3-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	4-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	4-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	5-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	5-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	6-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	6-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	7-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	7-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	8-A	407	LYS	CA-C-N	5.53	129.21	120.47
1	8-A	407	LYS	C-N-CA	5.53	129.21	120.47
1	1-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	1-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	2-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	2-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	3-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	3-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	4-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	4-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	5-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	5-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	6-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	6-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	7-Q	920	TYR	N-CA-CB	5.53	118.25	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	8-Q	920	TYR	N-CA-CB	5.53	118.25	110.12
1	8-W	920	TYR	N-CA-CB	5.53	118.25	110.12
1	1-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	1-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	1-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	1-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	1-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	1-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	1-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	1-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	1-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	1-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	2-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	2-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	2-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	2-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	2-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	2-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	2-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	2-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	2-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	2-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	3-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	3-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	3-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	3-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	3-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	3-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	3-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	3-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	3-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	3-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	4-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	4-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	4-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	4-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	4-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	4-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	4-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	4-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	4-U	394	ILE	CA-C-N	5.53	127.24	120.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	5-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	5-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	5-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	5-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	5-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	5-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	5-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	5-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	5-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	5-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	6-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	6-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	6-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	6-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	6-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	6-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	6-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	6-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	6-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	6-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	7-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	7-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	7-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	7-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	7-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	7-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	7-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	7-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	7-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	7-U	394	ILE	C-N-CA	5.53	127.24	120.22
1	8-E	440	PRO	N-CA-C	-5.53	106.95	113.86
2	8-I	360	ASP	CA-C-N	-5.53	114.72	123.12
2	8-I	360	ASP	C-N-CA	-5.53	114.72	123.12
6	8-N	334	GLU	CA-C-N	-5.53	113.08	120.54
6	8-N	334	GLU	C-N-CA	-5.53	113.08	120.54
6	8-N	390	ASP	CA-C-N	-5.53	112.32	120.28
6	8-N	390	ASP	C-N-CA	-5.53	112.32	120.28
1	8-Q	440	PRO	N-CA-C	-5.53	106.95	113.86
2	8-U	394	ILE	CA-C-N	5.53	127.24	120.22
2	8-U	394	ILE	C-N-CA	5.53	127.24	120.22
2	1-O	28	HIS	CA-C-O	5.53	127.35	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	1-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	1-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	1-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	2-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	2-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	2-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	2-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	2-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	3-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	3-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	3-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	3-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	3-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	4-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	4-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	4-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	4-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	4-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	5-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	5-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	5-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	5-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	5-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	6-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	6-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	6-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	6-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	6-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	7-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	7-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	7-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	7-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	7-U	28	HIS	N-CA-C	5.53	118.56	109.72
2	8-O	28	HIS	CA-C-O	5.53	127.35	121.11
4	8-R	443	HIS	CB-CA-C	5.53	121.42	110.42
5	8-S	278	LYS	CA-C-N	5.53	127.62	120.44
5	8-S	278	LYS	C-N-CA	5.53	127.62	120.44
2	8-U	28	HIS	N-CA-C	5.53	118.56	109.72
4	1-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	1-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	1-O	179	ASP	N-CA-C	-5.52	99.03	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	1-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	1-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	1-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	1-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	1-U	360	ASP	C-N-CA	-5.52	114.72	123.12
4	2-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	2-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	2-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	2-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	2-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	2-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	2-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	2-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	2-U	360	ASP	C-N-CA	-5.52	114.72	123.12
4	3-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	3-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	3-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	3-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	3-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	3-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	3-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	3-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	3-U	360	ASP	C-N-CA	-5.52	114.72	123.12
4	4-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	4-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	4-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	4-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	4-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	4-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	4-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	4-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	4-U	360	ASP	C-N-CA	-5.52	114.72	123.12
4	5-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	5-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	5-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	5-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	5-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	5-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	5-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	5-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	5-U	360	ASP	C-N-CA	-5.52	114.72	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	6-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	6-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	6-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	6-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	6-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	6-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	6-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	6-U	360	ASP	C-N-CA	-5.52	114.72	123.12
4	7-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	7-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	7-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	7-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	7-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	7-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	7-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	7-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	7-U	360	ASP	C-N-CA	-5.52	114.72	123.12
4	8-F	365	GLN	CA-C-O	-5.52	115.01	120.70
2	8-I	28	HIS	N-CA-C	5.52	118.56	109.72
2	8-O	179	ASP	N-CA-C	-5.52	99.03	110.80
2	8-O	394	ILE	CA-C-N	5.52	127.24	120.22
2	8-O	394	ILE	C-N-CA	5.52	127.24	120.22
1	8-Q	407	LYS	CA-C-N	5.52	129.20	120.47
1	8-Q	407	LYS	C-N-CA	5.52	129.20	120.47
2	8-U	360	ASP	CA-C-N	-5.52	114.72	123.12
2	8-U	360	ASP	C-N-CA	-5.52	114.72	123.12
5	1-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	2-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	3-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	4-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	5-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	6-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	7-S	383	GLN	N-CA-C	-5.52	105.34	111.36
5	8-S	383	GLN	N-CA-C	-5.52	105.34	111.36
4	1-L	416	THR	O-C-N	5.52	127.76	122.07
4	1-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	2-L	416	THR	O-C-N	5.52	127.76	122.07
4	2-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	3-L	416	THR	O-C-N	5.52	127.76	122.07
4	3-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	4-L	416	THR	O-C-N	5.52	127.76	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	5-L	416	THR	O-C-N	5.52	127.76	122.07
4	5-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	6-L	416	THR	O-C-N	5.52	127.76	122.07
4	6-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	7-L	416	THR	O-C-N	5.52	127.76	122.07
4	7-L	471	GLN	N-CA-C	-5.52	105.34	111.36
4	8-L	416	THR	O-C-N	5.52	127.76	122.07
4	8-L	471	GLN	N-CA-C	-5.52	105.34	111.36
5	1-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	1-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	1-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	2-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	2-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	2-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	3-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	3-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	3-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	4-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	4-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	4-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	5-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	5-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	5-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	6-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	6-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	6-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	7-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	7-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	7-X	323	ILE	N-CA-CB	5.52	116.36	111.67
5	8-M	383	GLN	N-CA-C	-5.52	105.34	111.36
2	8-U	304	PRO	N-CA-C	-5.52	106.00	113.40
4	8-X	323	ILE	N-CA-CB	5.52	116.36	111.67
4	1-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	2-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	3-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	4-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	5-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	6-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	7-F	443	HIS	CB-CA-C	5.52	121.40	110.42
4	8-F	443	HIS	CB-CA-C	5.52	121.40	110.42
2	1-U	179	ASP	N-CA-C	-5.51	99.05	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	179	ASP	N-CA-C	-5.51	99.05	110.80
2	3-U	179	ASP	N-CA-C	-5.51	99.05	110.80
2	4-U	179	ASP	N-CA-C	-5.51	99.05	110.80
2	5-U	179	ASP	N-CA-C	-5.51	99.05	110.80
2	6-U	179	ASP	N-CA-C	-5.51	99.05	110.80
2	7-U	179	ASP	N-CA-C	-5.51	99.05	110.80
2	8-U	179	ASP	N-CA-C	-5.51	99.05	110.80
4	1-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	2-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	3-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	4-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	5-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	6-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	7-X	443	HIS	CB-CA-C	5.51	121.39	110.42
4	8-X	443	HIS	CB-CA-C	5.51	121.39	110.42
1	1-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	1-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	1-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	1-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	1-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	2-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	2-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	2-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	2-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	2-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	3-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	3-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	3-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	3-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	3-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	4-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	4-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	4-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	4-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	4-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	5-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	5-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	5-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	5-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	5-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	6-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	6-E	407	LYS	C-N-CA	5.51	129.18	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	6-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	6-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	7-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	7-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	7-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	7-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	7-U	283	LEU	N-CA-C	-5.51	100.90	109.72
1	8-E	407	LYS	CA-C-N	5.51	129.18	120.47
1	8-E	407	LYS	C-N-CA	5.51	129.18	120.47
2	8-I	179	ASP	N-CA-C	-5.51	99.06	110.80
6	8-T	353	GLN	CA-C-O	-5.51	114.71	120.55
2	8-U	283	LEU	N-CA-C	-5.51	100.90	109.72
3	1-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	2-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	3-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	4-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	5-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	6-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	7-P	729	PRO	N-CA-C	-5.51	103.98	110.70
3	8-P	729	PRO	N-CA-C	-5.51	103.98	110.70
2	1-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	1-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	2-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	2-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	3-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	3-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	4-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	4-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	5-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	5-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	6-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	6-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	7-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	7-I	305	LEU	C-N-CA	5.51	126.72	119.84
2	8-I	305	LEU	CA-C-N	5.51	126.72	119.84
2	8-I	305	LEU	C-N-CA	5.51	126.72	119.84
4	1-F	492	GLU	CA-C-O	-5.51	112.64	120.51
4	2-F	492	GLU	CA-C-O	-5.51	112.64	120.51
4	3-F	492	GLU	CA-C-O	-5.51	112.64	120.51
4	4-F	492	GLU	CA-C-O	-5.51	112.64	120.51
4	5-F	492	GLU	CA-C-O	-5.51	112.64	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6-F	492	GLU	CA-C-O	-5.51	112.64	120.51
4	7-F	492	GLU	CA-C-O	-5.51	112.64	120.51
4	8-F	492	GLU	CA-C-O	-5.51	112.64	120.51
2	1-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	2-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	3-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	4-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	5-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	6-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	7-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	8-O	304	PRO	N-CA-C	-5.50	106.02	113.40
2	1-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	1-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	1-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	1-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	1-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	1-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	1-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	1-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	2-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	2-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	2-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	2-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	2-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	2-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	2-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	2-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	3-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	3-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	3-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	3-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	3-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	3-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	3-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	3-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	4-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	4-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	4-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	4-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	4-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	4-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	4-O	305	LEU	CA-C-N	5.50	126.72	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	5-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	5-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	5-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	5-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	5-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	5-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	5-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	5-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	6-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	6-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	6-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	6-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	6-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	6-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	6-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	6-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	7-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	7-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	7-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	7-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	7-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	7-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	7-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	7-O	305	LEU	C-N-CA	5.50	126.72	119.84
2	8-C	28	HIS	N-CA-C	5.50	118.53	109.72
2	8-C	304	PRO	N-CA-C	-5.50	106.03	113.40
2	8-C	305	LEU	CA-C-N	5.50	126.72	119.84
2	8-C	305	LEU	C-N-CA	5.50	126.72	119.84
5	8-G	331	THR	CA-C-N	-5.50	114.71	120.38
5	8-G	331	THR	C-N-CA	-5.50	114.71	120.38
2	8-O	305	LEU	CA-C-N	5.50	126.72	119.84
2	8-O	305	LEU	C-N-CA	5.50	126.72	119.84
4	1-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	2-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	3-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	4-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	5-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	6-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	7-L	443	HIS	CB-CA-C	5.50	121.37	110.42
4	8-L	443	HIS	CB-CA-C	5.50	121.37	110.42
6	1-Z	334	GLU	CA-C-N	-5.50	113.12	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	2-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	2-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	3-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	3-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	4-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	4-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	5-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	5-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	6-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	6-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	7-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	7-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
6	8-Z	334	GLU	CA-C-N	-5.50	113.12	120.54
6	8-Z	334	GLU	C-N-CA	-5.50	113.12	120.54
2	1-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	1-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	1-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	2-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	2-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	2-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	3-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	3-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	3-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	4-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	4-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	4-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	5-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	5-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	5-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	6-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	6-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	6-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	7-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	7-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	7-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	8-I	304	PRO	N-CA-C	-5.50	106.03	113.40
4	8-L	365	GLN	CA-C-O	-5.50	115.04	120.70
4	8-X	437	GLN	CB-CA-C	-5.50	102.25	110.88
2	1-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	1-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	1-W	1233	VAL	N-CA-C	-5.50	100.78	108.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	1-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	1-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	2-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	2-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	2-W	1233	VAL	N-CA-C	-5.50	100.78	108.80
4	2-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	2-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	2-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	3-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	3-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	3-W	1233	VAL	N-CA-C	-5.50	100.78	108.80
4	3-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	3-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	3-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	4-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	4-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	4-W	1233	VAL	N-CA-C	-5.50	100.78	108.80
4	4-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	4-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	4-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	5-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	5-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	5-W	1233	VAL	N-CA-C	-5.50	100.78	108.80
4	5-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	5-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	5-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	6-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	6-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	6-W	1233	VAL	N-CA-C	-5.50	100.78	108.80
4	6-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	6-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	6-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	7-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	7-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	7-W	1233	VAL	N-CA-C	-5.50	100.78	108.80
4	7-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	7-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	7-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	8-C	179	ASP	N-CA-C	-5.50	99.09	110.80
2	8-I	283	LEU	N-CA-C	-5.50	100.92	109.72
1	8-W	1233	VAL	N-CA-C	-5.50	100.78	108.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	365	GLN	CA-C-O	-5.50	115.04	120.70
6	8-Z	390	ASP	CA-C-N	-5.50	112.36	120.28
6	8-Z	390	ASP	C-N-CA	-5.50	112.36	120.28
2	1-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	1-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	1-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	1-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	1-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	2-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	2-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	2-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	2-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	2-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	3-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	3-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	3-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	3-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	3-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	4-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	4-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	4-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	4-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	4-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	5-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	5-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	5-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	5-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	5-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	6-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	6-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	6-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	6-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	6-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	7-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	7-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	7-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	7-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80
5	7-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
2	8-I	394	ILE	CA-C-N	5.49	127.20	120.22
2	8-I	394	ILE	C-N-CA	5.49	127.20	120.22
6	8-N	353	GLN	CA-C-O	-5.49	114.73	120.55
1	8-Q	1233	VAL	N-CA-C	-5.49	100.78	108.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-Y	383	GLN	N-CA-C	-5.49	105.37	111.36
4	1-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	2-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	3-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	4-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	5-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	6-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	7-X	492	GLU	CA-C-O	-5.49	112.66	120.51
4	8-X	492	GLU	CA-C-O	-5.49	112.66	120.51
2	1-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	2-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	3-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	4-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	5-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	6-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	7-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	8-C	283	LEU	N-CA-C	-5.49	100.93	109.72
2	1-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	1-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	2-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	2-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	3-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	3-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	4-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	4-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	5-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	5-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	6-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	6-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	7-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	7-R	492	GLU	CA-C-O	-5.49	112.66	120.51
2	8-O	283	LEU	N-CA-C	-5.49	100.94	109.72
4	8-R	492	GLU	CA-C-O	-5.49	112.66	120.51
1	1-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	1-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	1-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	2-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	2-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	2-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	3-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	3-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	3-H	390	ASP	C-N-CA	-5.49	112.38	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	4-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	4-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	5-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	5-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	5-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	6-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	6-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	6-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	7-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	7-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	7-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	8-E	1233	VAL	N-CA-C	-5.49	100.79	108.80
6	8-H	390	ASP	CA-C-N	-5.49	112.38	120.28
6	8-H	390	ASP	C-N-CA	-5.49	112.38	120.28
1	1-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	1-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	2-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	2-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	3-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	3-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	4-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	4-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	5-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	5-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	6-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	6-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	7-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	7-V	1476	ALA	CA-C-O	5.49	126.58	120.82
1	8-K	1233	VAL	N-CA-C	-5.49	100.79	108.80
3	8-V	1476	ALA	CA-C-O	5.49	126.58	120.82
5	1-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	1-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	1-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	1-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	2-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	2-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	2-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	2-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	3-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	3-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	3-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	4-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	4-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	4-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	4-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	5-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	5-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	5-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	5-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	6-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	6-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	6-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	6-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	7-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	7-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	7-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	7-T	466	ASP	CA-C-O	-5.48	112.67	120.51
5	8-M	331	THR	CA-C-N	-5.48	114.73	120.38
5	8-M	331	THR	C-N-CA	-5.48	114.73	120.38
3	8-P	1524	VAL	CB-CA-C	-5.48	104.95	111.97
6	8-T	466	ASP	CA-C-O	-5.48	112.67	120.51
6	1-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	1-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	1-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	1-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	1-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	1-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	1-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	2-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	2-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	2-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	2-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	2-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	2-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	2-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	3-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	3-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	3-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	3-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	3-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	3-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	3-T	334	GLU	C-N-CA	-5.48	113.14	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	4-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	4-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	4-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	4-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	4-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	4-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	5-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	5-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	5-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	5-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	5-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	5-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	5-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	6-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	6-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	6-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	6-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	6-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	6-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	6-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	7-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	7-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	7-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	7-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	7-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	7-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	7-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	8-H	395	PHE	N-CA-C	-5.48	104.95	111.69
3	8-J	729	PRO	N-CA-C	-5.48	104.01	110.70
3	8-J	1524	VAL	CB-CA-C	-5.48	104.95	111.97
4	8-L	492	GLU	CA-C-O	-5.48	112.67	120.51
5	8-M	275	MET	CA-C-O	-5.48	113.67	119.97
6	8-T	334	GLU	CA-C-N	-5.48	113.14	120.54
6	8-T	334	GLU	C-N-CA	-5.48	113.14	120.54
6	1-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	1-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	2-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	2-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	3-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	3-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	4-N	395	PHE	N-CA-C	-5.48	104.95	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	5-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	5-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	6-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	6-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	7-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	7-V	729	PRO	N-CA-C	-5.48	104.02	110.70
6	8-N	395	PHE	N-CA-C	-5.48	104.95	111.69
3	8-V	729	PRO	N-CA-C	-5.48	104.02	110.70
4	1-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	2-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	3-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	4-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	5-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	6-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	7-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
4	8-F	307	ILE	CB-CA-C	-5.48	104.66	112.22
3	1-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	1-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	1-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	1-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	1-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	1-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	2-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	2-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	2-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	2-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	2-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	2-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	3-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	3-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	3-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	3-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	3-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	3-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	4-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	4-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	4-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	4-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	4-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	4-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	5-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	5-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	5-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	5-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	5-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	6-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	6-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	6-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	6-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	6-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	6-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	7-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	7-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	7-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	7-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	7-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	7-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
3	8-D	1524	VAL	CB-CA-C	-5.47	104.96	111.97
1	8-K	1055	VAL	CA-C-N	5.47	128.06	120.29
1	8-K	1055	VAL	C-N-CA	5.47	128.06	120.29
4	8-R	490	LEU	O-C-N	-5.47	115.53	122.27
3	8-V	1524	VAL	CB-CA-C	-5.47	104.96	111.97
6	8-Z	353	GLN	CA-C-O	-5.47	114.75	120.55
4	1-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	2-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	3-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	4-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	5-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	6-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	7-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
4	8-R	437	GLN	CB-CA-C	-5.47	102.29	110.88
6	1-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	2-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	3-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	4-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	5-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	6-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	7-H	353	GLN	CA-C-O	-5.47	114.75	120.55
6	8-H	353	GLN	CA-C-O	-5.47	114.75	120.55
3	1-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	2-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	3-D	1507	ASP	O-C-N	5.47	129.37	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	5-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	6-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	7-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	8-D	1507	ASP	O-C-N	5.47	129.37	122.37
3	1-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	1-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	2-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	2-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	3-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	3-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	4-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	4-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	5-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	5-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	6-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	6-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	7-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	7-Y	275	MET	CA-C-O	-5.47	113.68	119.97
3	8-D	729	PRO	N-CA-C	-5.47	104.03	110.70
5	8-Y	275	MET	CA-C-O	-5.47	113.68	119.97
5	1-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	1-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	2-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	2-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	3-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	3-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	4-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	4-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	5-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	5-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	6-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	6-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	7-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	7-Y	331	THR	C-N-CA	-5.47	114.75	120.38
5	8-Y	331	THR	CA-C-N	-5.47	114.75	120.38
5	8-Y	331	THR	C-N-CA	-5.47	114.75	120.38
3	1-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	1-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	1-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	1-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	2-D	1476	ALA	CA-C-O	5.46	126.56	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	2-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	2-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	3-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	3-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	3-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	3-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	4-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	4-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	4-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	4-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	5-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	5-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	5-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	5-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	6-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	6-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	6-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	6-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	7-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	7-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	7-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	7-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
3	8-D	1476	ALA	CA-C-O	5.46	126.56	120.82
4	8-L	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	8-L	437	GLN	CB-CA-C	-5.46	102.30	110.88
5	8-M	290	LEU	CB-CA-C	-5.46	101.72	110.79
2	1-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	1-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	2-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	2-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	3-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	3-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	4-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	4-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	5-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	5-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	6-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	6-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	7-O	4	GLU	N-CA-CB	5.46	118.27	111.00
4	7-X	490	LEU	O-C-N	-5.46	115.55	122.27
2	8-O	4	GLU	N-CA-CB	5.46	118.27	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	490	LEU	O-C-N	-5.46	115.55	122.27
1	1-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	1-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	1-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	1-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	1-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	2-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	2-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	2-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	2-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	2-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	3-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	3-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	3-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	3-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	3-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	4-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	4-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	4-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	4-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	4-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	5-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	5-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	5-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	5-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	5-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	6-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	6-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	6-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	6-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	6-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	7-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	7-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	7-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	7-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	7-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
1	8-A	316	ALA	N-CA-C	-5.46	102.80	110.50
1	8-E	316	ALA	N-CA-C	-5.46	102.80	110.50
4	8-F	437	GLN	CB-CA-C	-5.46	102.31	110.88
4	8-L	490	LEU	O-C-N	-5.46	115.55	122.27
4	8-R	307	ILE	CB-CA-C	-5.46	104.68	112.22
4	1-F	490	LEU	O-C-N	-5.46	115.56	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	1-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	2-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	2-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	2-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	3-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	3-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	3-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	4-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	4-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	4-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	5-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	5-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	5-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	6-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	6-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	6-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	7-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	7-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	7-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
4	8-F	490	LEU	O-C-N	-5.46	115.56	122.27
3	8-P	1507	ASP	O-C-N	5.46	129.36	122.37
5	8-S	290	LEU	CB-CA-C	-5.46	101.73	110.79
2	1-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	1-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	1-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	2-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	2-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	2-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	3-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	3-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	3-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	4-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	4-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	4-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	5-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	5-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	5-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	6-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	6-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	6-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	7-C	484	ARG	CB-CA-C	-5.46	99.73	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	7-W	1055	VAL	C-N-CA	5.46	128.04	120.29
2	8-C	484	ARG	CB-CA-C	-5.46	99.73	110.10
1	8-W	1055	VAL	CA-C-N	5.46	128.04	120.29
1	8-W	1055	VAL	C-N-CA	5.46	128.04	120.29
6	1-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	1-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	1-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	2-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	2-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	2-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	3-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	3-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	3-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	4-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	4-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	4-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	5-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	5-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	5-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	6-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	6-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	6-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	7-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	7-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	7-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	8-H	334	GLU	CA-C-N	-5.46	113.18	120.54
6	8-H	334	GLU	C-N-CA	-5.46	113.18	120.54
2	8-U	4	GLU	N-CA-CB	5.46	118.25	111.00
6	1-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	1-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	2-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	2-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	3-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	3-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	4-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	4-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	5-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	5-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	6-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	6-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	7-N	466	ASP	CA-C-O	-5.45	112.71	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
6	8-N	466	ASP	CA-C-O	-5.45	112.71	120.51
6	8-Z	395	PHE	N-CA-C	-5.45	104.98	111.69
1	1-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	1-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	1-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	2-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	2-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	2-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	3-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	3-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	3-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	4-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	4-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	4-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	5-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	5-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	5-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	6-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	6-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	6-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	7-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	7-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	7-S	275	MET	CA-C-O	-5.45	113.70	119.97
1	8-Q	1055	VAL	CA-C-N	5.45	128.03	120.29
1	8-Q	1055	VAL	C-N-CA	5.45	128.03	120.29
5	8-S	275	MET	CA-C-O	-5.45	113.70	119.97
5	1-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	1-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	1-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	1-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	1-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
5	2-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	2-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	2-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	2-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	2-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
5	3-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	3-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	3-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	3-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	3-X	307	ILE	CB-CA-C	-5.45	104.70	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	4-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	4-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	4-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	4-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
5	5-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	5-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	5-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	5-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	5-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
5	6-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	6-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	6-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	6-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	6-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
5	7-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	7-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	7-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	7-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	7-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
5	8-S	331	THR	CA-C-N	-5.45	114.77	120.38
5	8-S	331	THR	C-N-CA	-5.45	114.77	120.38
6	8-T	395	PHE	N-CA-C	-5.45	104.99	111.69
2	8-U	484	ARG	CB-CA-C	-5.45	99.75	110.10
4	8-X	307	ILE	CB-CA-C	-5.45	104.70	112.22
1	1-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	1-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	1-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	2-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	2-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	2-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	3-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	3-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	3-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	4-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	4-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	4-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	5-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	5-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	5-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	6-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	6-E	1055	VAL	C-N-CA	5.45	128.03	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	7-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	7-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	7-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	8-E	1055	VAL	CA-C-N	5.45	128.03	120.29
1	8-E	1055	VAL	C-N-CA	5.45	128.03	120.29
5	8-G	290	LEU	CB-CA-C	-5.45	101.75	110.79
1	1-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	1-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	2-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	2-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	3-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	3-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	4-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	4-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	5-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	5-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	6-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	6-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	7-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	7-X	305	ASP	N-CA-C	-5.45	102.79	109.65
1	8-Q	316	ALA	N-CA-C	-5.45	102.82	110.50
4	8-X	305	ASP	N-CA-C	-5.45	102.79	109.65
2	1-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	2-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	3-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	4-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	5-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	6-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	7-I	4	GLU	N-CA-CB	5.44	118.24	111.00
2	8-I	4	GLU	N-CA-CB	5.44	118.24	111.00
4	1-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	1-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	1-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	1-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	2-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	2-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	2-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	2-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	3-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	3-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	3-L	458	ASP	CB-CA-C	-5.44	99.59	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	4-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	4-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	4-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	4-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	5-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	5-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	5-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	5-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	6-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	6-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	6-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	6-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	7-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	7-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	7-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	7-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
4	8-F	458	ASP	CB-CA-C	-5.44	99.59	110.42
2	8-I	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	8-L	458	ASP	CB-CA-C	-5.44	99.59	110.42
6	8-Z	466	ASP	CA-C-O	-5.44	112.73	120.51
3	1-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	1-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	1-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
3	2-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	2-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	2-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
3	3-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	3-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	3-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
3	4-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	4-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	4-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
3	5-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	5-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	5-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
3	6-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	6-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	6-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
3	7-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	7-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	7-O	484	ARG	CB-CA-C	-5.44	99.76	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1476	ALA	CA-C-O	5.44	126.53	120.82
3	8-J	1507	ASP	O-C-N	5.44	129.33	122.37
2	8-O	484	ARG	CB-CA-C	-5.44	99.76	110.10
4	1-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	1-S	405	SER	CA-C-N	5.44	127.52	120.56
5	1-S	405	SER	C-N-CA	5.44	127.52	120.56
4	2-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	2-S	405	SER	CA-C-N	5.44	127.52	120.56
5	2-S	405	SER	C-N-CA	5.44	127.52	120.56
4	3-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	3-S	405	SER	CA-C-N	5.44	127.52	120.56
5	3-S	405	SER	C-N-CA	5.44	127.52	120.56
4	4-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	4-S	405	SER	CA-C-N	5.44	127.52	120.56
5	4-S	405	SER	C-N-CA	5.44	127.52	120.56
4	5-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	5-S	405	SER	CA-C-N	5.44	127.52	120.56
5	5-S	405	SER	C-N-CA	5.44	127.52	120.56
4	6-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	6-S	405	SER	CA-C-N	5.44	127.52	120.56
5	6-S	405	SER	C-N-CA	5.44	127.52	120.56
4	7-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	7-S	405	SER	CA-C-N	5.44	127.52	120.56
5	7-S	405	SER	C-N-CA	5.44	127.52	120.56
4	8-L	305	ASP	N-CA-C	-5.44	102.80	109.65
5	8-S	405	SER	CA-C-N	5.44	127.52	120.56
5	8-S	405	SER	C-N-CA	5.44	127.52	120.56
6	1-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	1-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	2-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	2-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	3-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	3-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	4-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	4-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	5-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	5-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	6-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	6-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	7-H	466	ASP	CA-C-O	-5.44	112.74	120.51
4	7-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
6	8-H	466	ASP	CA-C-O	-5.44	112.74	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	458	ASP	CB-CA-C	-5.44	99.60	110.42
1	1-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	1-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	1-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	1-L	298	GLN	O-C-N	5.43	129.93	122.59
1	2-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	2-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	2-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	2-L	298	GLN	O-C-N	5.43	129.93	122.59
1	3-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	3-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	3-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	3-L	298	GLN	O-C-N	5.43	129.93	122.59
1	4-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	4-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	4-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	4-L	298	GLN	O-C-N	5.43	129.93	122.59
1	5-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	5-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	5-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	5-L	298	GLN	O-C-N	5.43	129.93	122.59
1	6-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	6-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	6-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	6-L	298	GLN	O-C-N	5.43	129.93	122.59
1	7-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	7-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	7-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	7-L	298	GLN	O-C-N	5.43	129.93	122.59
1	8-B	316	ALA	N-CA-C	-5.43	102.84	110.50
2	8-C	4	GLU	N-CA-CB	5.43	118.23	111.00
4	8-F	305	ASP	N-CA-C	-5.43	102.80	109.65
4	8-L	298	GLN	O-C-N	5.43	129.93	122.59
6	1-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	1-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	2-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	2-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	3-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	3-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	4-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	4-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	5-N	399	GLN	N-CA-C	-5.43	105.46	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	6-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	6-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	7-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	7-R	305	ASP	N-CA-C	-5.43	102.81	109.65
6	8-N	399	GLN	N-CA-C	-5.43	105.46	111.71
4	8-R	305	ASP	N-CA-C	-5.43	102.81	109.65
2	1-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	1-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	1-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	1-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	1-Y	405	SER	C-N-CA	5.43	127.51	120.56
2	2-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	2-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	2-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	2-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	2-Y	405	SER	C-N-CA	5.43	127.51	120.56
2	3-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	3-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	3-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	3-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	3-Y	405	SER	C-N-CA	5.43	127.51	120.56
2	4-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	4-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	4-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	4-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	4-Y	405	SER	C-N-CA	5.43	127.51	120.56
2	5-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	5-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	5-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	5-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	5-Y	405	SER	C-N-CA	5.43	127.51	120.56
2	6-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	6-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	6-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	6-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	6-Y	405	SER	C-N-CA	5.43	127.51	120.56
2	7-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	7-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	7-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	7-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	7-Y	405	SER	C-N-CA	5.43	127.51	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-I	596	GLY	N-CA-C	-5.43	104.29	112.60
3	8-V	1507	ASP	O-C-N	5.43	129.32	122.37
5	8-Y	318	GLU	N-CA-CB	5.43	118.70	110.28
5	8-Y	405	SER	CA-C-N	5.43	127.51	120.56
5	8-Y	405	SER	C-N-CA	5.43	127.51	120.56
5	1-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	2-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	3-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	4-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	5-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	6-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	7-G	275	MET	CA-C-O	-5.43	113.73	119.97
5	8-G	275	MET	CA-C-O	-5.43	113.73	119.97
2	1-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	1-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	1-X	475	SER	O-C-N	-5.43	116.37	122.12
6	1-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	2-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	2-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	2-X	475	SER	O-C-N	-5.43	116.37	122.12
6	2-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	3-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	3-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	3-X	475	SER	O-C-N	-5.43	116.37	122.12
6	3-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	4-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	4-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	4-X	475	SER	O-C-N	-5.43	116.37	122.12
6	4-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	5-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	5-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	5-X	475	SER	O-C-N	-5.43	116.37	122.12
6	5-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	6-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	6-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	6-X	475	SER	O-C-N	-5.43	116.37	122.12
6	6-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	7-C	596	GLY	N-CA-C	-5.43	104.30	112.60
4	7-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	7-X	475	SER	O-C-N	-5.43	116.37	122.12
6	7-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
2	8-C	596	GLY	N-CA-C	-5.43	104.30	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	458	ASP	CB-CA-C	-5.43	99.62	110.42
4	8-X	475	SER	O-C-N	-5.43	116.37	122.12
6	8-Z	365	LEU	CB-CA-C	-5.43	102.36	110.88
6	1-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	2-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	3-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	4-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	5-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	6-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	7-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	8-Z	399	GLN	N-CA-C	-5.42	105.47	111.71
6	1-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	1-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	1-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	1-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	1-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	2-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	2-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	2-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	2-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	2-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	3-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	3-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	3-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	3-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	3-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	4-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	4-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	4-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	4-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	4-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	5-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	5-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	5-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	5-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	5-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	6-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	6-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	6-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	6-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	6-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	7-H	399	GLN	N-CA-C	-5.42	105.47	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	7-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	7-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	7-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
6	8-H	399	GLN	N-CA-C	-5.42	105.47	111.71
6	8-N	365	LEU	CB-CA-C	-5.42	102.37	110.88
3	8-P	1476	ALA	CA-C-O	5.42	126.51	120.82
4	8-X	339	VAL	N-CA-C	-5.42	105.24	110.72
5	8-Y	290	LEU	CB-CA-C	-5.42	101.79	110.79
5	1-G	405	SER	CA-C-N	5.42	127.50	120.56
5	1-G	405	SER	C-N-CA	5.42	127.50	120.56
4	1-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	1-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	2-G	405	SER	CA-C-N	5.42	127.50	120.56
5	2-G	405	SER	C-N-CA	5.42	127.50	120.56
4	2-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	2-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	3-G	405	SER	CA-C-N	5.42	127.50	120.56
5	3-G	405	SER	C-N-CA	5.42	127.50	120.56
4	3-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	3-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	4-G	405	SER	CA-C-N	5.42	127.50	120.56
5	4-G	405	SER	C-N-CA	5.42	127.50	120.56
4	4-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	4-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	5-G	405	SER	CA-C-N	5.42	127.50	120.56
5	5-G	405	SER	C-N-CA	5.42	127.50	120.56
4	5-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	5-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	6-G	405	SER	CA-C-N	5.42	127.50	120.56
5	6-G	405	SER	C-N-CA	5.42	127.50	120.56
4	6-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	6-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	7-G	405	SER	CA-C-N	5.42	127.50	120.56
5	7-G	405	SER	C-N-CA	5.42	127.50	120.56
4	7-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	7-W	316	ALA	N-CA-C	-5.42	102.86	110.50
5	8-G	405	SER	CA-C-N	5.42	127.50	120.56
5	8-G	405	SER	C-N-CA	5.42	127.50	120.56
4	8-L	339	VAL	N-CA-C	-5.42	105.25	110.72
1	8-W	316	ALA	N-CA-C	-5.42	102.86	110.50
6	1-H	365	LEU	CB-CA-C	-5.42	102.38	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	2-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	2-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	3-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	3-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	4-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	4-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	5-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	5-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	6-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	6-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	7-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	7-U	596	GLY	N-CA-C	-5.42	104.31	112.60
6	8-H	365	LEU	CB-CA-C	-5.42	102.38	110.88
2	8-U	596	GLY	N-CA-C	-5.42	104.31	112.60
3	1-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	2-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	3-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	4-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	5-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	6-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	7-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
3	8-V	446	ILE	CB-CA-C	-5.42	105.04	111.97
1	1-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	1-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	2-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	2-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	3-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	3-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	4-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	4-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	5-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	5-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	6-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	6-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	7-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	7-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
1	8-K	316	ALA	N-CA-C	-5.41	102.87	110.50
6	8-T	365	LEU	CB-CA-C	-5.41	102.38	110.88
2	1-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	2-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	3-C	396	ARG	N-CA-C	-5.41	104.44	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	5-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	6-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	7-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	8-C	396	ARG	N-CA-C	-5.41	104.44	111.74
2	1-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	2-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	3-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	4-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	5-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	6-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	7-O	596	GLY	N-CA-C	-5.41	104.33	112.60
2	8-O	596	GLY	N-CA-C	-5.41	104.33	112.60
4	1-X	298	GLN	O-C-N	5.41	129.89	122.59
4	2-X	298	GLN	O-C-N	5.41	129.89	122.59
4	3-X	298	GLN	O-C-N	5.41	129.89	122.59
4	4-X	298	GLN	O-C-N	5.41	129.89	122.59
4	5-X	298	GLN	O-C-N	5.41	129.89	122.59
4	6-X	298	GLN	O-C-N	5.41	129.89	122.59
4	7-X	298	GLN	O-C-N	5.41	129.89	122.59
4	8-X	298	GLN	O-C-N	5.41	129.89	122.59
2	1-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	1-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	1-M	405	SER	CA-C-N	5.41	127.48	120.56
5	1-M	405	SER	C-N-CA	5.41	127.48	120.56
2	2-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	2-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	2-M	405	SER	CA-C-N	5.41	127.48	120.56
5	2-M	405	SER	C-N-CA	5.41	127.48	120.56
2	3-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	3-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	3-M	405	SER	CA-C-N	5.41	127.48	120.56
5	3-M	405	SER	C-N-CA	5.41	127.48	120.56
2	4-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	4-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	4-M	405	SER	CA-C-N	5.41	127.48	120.56
5	4-M	405	SER	C-N-CA	5.41	127.48	120.56
2	5-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	5-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	5-M	405	SER	CA-C-N	5.41	127.48	120.56
5	5-M	405	SER	C-N-CA	5.41	127.48	120.56
2	6-I	396	ARG	N-CA-C	-5.41	104.44	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	6-M	405	SER	CA-C-N	5.41	127.48	120.56
5	6-M	405	SER	C-N-CA	5.41	127.48	120.56
2	7-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	7-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	7-M	405	SER	CA-C-N	5.41	127.48	120.56
5	7-M	405	SER	C-N-CA	5.41	127.48	120.56
2	8-I	396	ARG	N-CA-C	-5.41	104.44	111.74
5	8-M	318	GLU	N-CA-CB	5.41	118.66	110.28
5	8-M	405	SER	CA-C-N	5.41	127.48	120.56
5	8-M	405	SER	C-N-CA	5.41	127.48	120.56
2	1-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	1-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	2-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	2-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	3-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	3-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	4-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	4-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	5-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	5-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	6-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	6-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	7-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	7-S	318	GLU	N-CA-CB	5.40	118.66	110.28
2	8-O	396	ARG	N-CA-C	-5.40	104.44	111.74
5	8-S	318	GLU	N-CA-CB	5.40	118.66	110.28
3	1-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	1-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	2-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	2-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	3-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	3-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	4-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	4-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	5-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	5-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	6-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	6-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	7-J	1451	ARG	O-C-N	5.40	129.78	122.59
4	7-R	339	VAL	N-CA-C	-5.40	105.26	110.72
3	8-J	1451	ARG	O-C-N	5.40	129.78	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-R	339	VAL	N-CA-C	-5.40	105.26	110.72
6	1-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	1-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	2-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	2-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	3-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	3-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	4-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	4-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	5-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	5-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	6-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	6-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	7-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	7-H	421	ILE	N-CA-C	-5.40	105.11	110.62
6	8-H	412	GLU	CA-C-O	-5.40	114.03	120.56
6	8-H	421	ILE	N-CA-C	-5.40	105.11	110.62
1	1-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	1-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	2-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	2-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	3-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	3-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	4-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	4-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	5-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	5-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	6-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	6-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	7-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	7-T	399	GLN	N-CA-C	-5.40	105.50	111.71
1	8-E	238	VAL	CB-CA-C	-5.40	102.26	110.95
6	8-T	399	GLN	N-CA-C	-5.40	105.50	111.71
5	1-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	1-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	2-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	2-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	3-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	3-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	4-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	4-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	5-G	318	GLU	N-CA-CB	5.40	118.65	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	6-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	6-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	7-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	7-V	1451	ARG	O-C-N	5.40	129.77	122.59
5	8-G	318	GLU	N-CA-CB	5.40	118.65	110.28
3	8-V	1451	ARG	O-C-N	5.40	129.77	122.59
4	1-F	298	GLN	O-C-N	5.40	129.87	122.59
6	1-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	2-F	298	GLN	O-C-N	5.40	129.87	122.59
6	2-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	3-F	298	GLN	O-C-N	5.40	129.87	122.59
6	3-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	4-F	298	GLN	O-C-N	5.40	129.87	122.59
6	4-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	5-F	298	GLN	O-C-N	5.40	129.87	122.59
6	5-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	6-F	298	GLN	O-C-N	5.40	129.87	122.59
6	6-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	7-F	298	GLN	O-C-N	5.40	129.87	122.59
6	7-T	412	GLU	CA-C-O	-5.40	114.03	120.56
4	8-F	298	GLN	O-C-N	5.40	129.87	122.59
6	8-T	412	GLU	CA-C-O	-5.40	114.03	120.56
6	1-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	1-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	2-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	2-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	3-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	3-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	4-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	4-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	5-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	5-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	6-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	6-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	7-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	7-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
6	8-N	412	GLU	CA-C-O	-5.39	114.03	120.56
3	8-P	446	ILE	CB-CA-C	-5.39	105.07	111.97
4	1-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	1-F	475	SER	O-C-N	-5.39	116.41	122.12
4	2-F	339	VAL	N-CA-C	-5.39	105.28	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-F	475	SER	O-C-N	-5.39	116.41	122.12
4	3-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	3-F	475	SER	O-C-N	-5.39	116.41	122.12
4	4-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	4-F	475	SER	O-C-N	-5.39	116.41	122.12
4	5-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	5-F	475	SER	O-C-N	-5.39	116.41	122.12
4	6-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	6-F	475	SER	O-C-N	-5.39	116.41	122.12
4	7-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	7-F	475	SER	O-C-N	-5.39	116.41	122.12
4	8-F	339	VAL	N-CA-C	-5.39	105.28	110.72
4	8-F	475	SER	O-C-N	-5.39	116.41	122.12
4	1-R	298	GLN	O-C-N	5.39	129.86	122.59
6	1-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	2-R	298	GLN	O-C-N	5.39	129.86	122.59
6	2-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	3-R	298	GLN	O-C-N	5.39	129.86	122.59
6	3-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	4-R	298	GLN	O-C-N	5.39	129.86	122.59
6	4-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	5-R	298	GLN	O-C-N	5.39	129.86	122.59
6	5-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	6-R	298	GLN	O-C-N	5.39	129.86	122.59
6	6-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	7-R	298	GLN	O-C-N	5.39	129.86	122.59
6	7-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
4	8-R	298	GLN	O-C-N	5.39	129.86	122.59
6	8-Z	412	GLU	CA-C-O	-5.39	114.04	120.56
6	1-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	1-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	2-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	2-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	3-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	3-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	4-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	4-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	5-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	5-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	6-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	6-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	7-N	421	ILE	N-CA-C	-5.38	105.13	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-P	1451	ARG	O-C-N	5.38	129.75	122.59
6	8-N	421	ILE	N-CA-C	-5.38	105.13	110.62
3	8-P	1451	ARG	O-C-N	5.38	129.75	122.59
5	1-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	2-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	3-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	4-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	5-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	6-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	7-M	335	LEU	CA-C-O	5.38	128.21	120.51
5	8-M	335	LEU	CA-C-O	5.38	128.21	120.51
6	1-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	2-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	3-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	4-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	5-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	6-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	7-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
6	8-Z	391	GLN	CA-C-O	-5.38	114.02	120.10
5	1-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	1-R	475	SER	O-C-N	-5.38	116.42	122.12
2	1-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	2-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	2-R	475	SER	O-C-N	-5.38	116.42	122.12
2	2-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	3-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	3-R	475	SER	O-C-N	-5.38	116.42	122.12
2	3-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	4-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	4-R	475	SER	O-C-N	-5.38	116.42	122.12
2	4-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	5-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	5-R	475	SER	O-C-N	-5.38	116.42	122.12
2	5-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	6-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	6-R	475	SER	O-C-N	-5.38	116.42	122.12
2	6-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	7-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	7-R	475	SER	O-C-N	-5.38	116.42	122.12
2	7-U	396	ARG	N-CA-C	-5.38	104.48	111.74
5	8-G	335	LEU	CA-C-O	5.38	128.20	120.51
4	8-R	475	SER	O-C-N	-5.38	116.42	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-U	396	ARG	N-CA-C	-5.38	104.48	111.74
1	1-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	2-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	3-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	4-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	5-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	6-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	7-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	8-A	238	VAL	CB-CA-C	-5.38	102.29	110.95
1	1-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	2-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	3-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	4-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	5-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	6-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	7-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
1	8-K	238	VAL	CB-CA-C	-5.38	102.30	110.95
6	1-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	2-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	3-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	4-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	5-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	6-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	7-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
6	8-Z	421	ILE	N-CA-C	-5.37	105.14	110.62
1	1-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	1-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	2-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	2-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	3-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	3-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	4-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	4-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	5-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	5-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	6-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	6-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	7-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	7-N	391	GLN	CA-C-O	-5.37	114.03	120.10
1	8-B	852	VAL	CB-CA-C	-5.37	105.00	112.04
6	8-N	391	GLN	CA-C-O	-5.37	114.03	120.10
2	1-C	341	ALA	CA-C-O	-5.37	114.83	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-C	341	ALA	CA-C-O	-5.37	114.83	120.63
2	3-C	341	ALA	CA-C-O	-5.37	114.83	120.63
2	4-C	341	ALA	CA-C-O	-5.37	114.83	120.63
2	5-C	341	ALA	CA-C-O	-5.37	114.83	120.63
2	6-C	341	ALA	CA-C-O	-5.37	114.83	120.63
2	7-C	341	ALA	CA-C-O	-5.37	114.83	120.63
2	8-C	341	ALA	CA-C-O	-5.37	114.83	120.63
6	1-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	1-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	1-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	2-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	2-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	2-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	3-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	3-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	3-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	4-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	4-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	4-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	5-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	5-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	5-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	6-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	6-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	6-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	7-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	7-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	7-T	421	ILE	N-CA-C	-5.37	105.14	110.62
6	8-H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	8-K	852	VAL	CB-CA-C	-5.37	105.01	112.04
6	8-T	421	ILE	N-CA-C	-5.37	105.14	110.62
3	1-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	2-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	3-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	4-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	5-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	6-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	7-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	8-D	1472	SER	N-CA-C	5.37	116.82	110.97
3	1-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	1-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	1-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	2-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	2-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	2-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	2-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	3-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	3-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	3-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	3-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	4-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	4-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	4-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	4-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	5-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	5-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	5-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	5-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	6-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	6-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	6-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	6-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	7-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	7-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	7-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	7-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	8-J	446	ILE	CB-CA-C	-5.37	105.10	111.97
6	8-N	493	ALA	N-CA-C	-5.37	105.83	112.38
1	8-Q	238	VAL	CB-CA-C	-5.37	102.31	110.95
4	8-X	392	LYS	CB-CA-C	5.37	121.20	109.99
3	1-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	1-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	1-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	1-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	1-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	2-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	2-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	2-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	2-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	2-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	3-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	3-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	3-S	335	LEU	CA-C-O	5.36	128.18	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	3-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	4-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	4-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	4-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	4-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	4-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	5-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	5-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	5-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	5-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	5-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	6-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	6-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	6-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	6-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	6-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	7-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	7-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	7-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	7-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	7-Y	335	LEU	CA-C-O	5.36	128.18	120.51
3	8-D	1451	ARG	O-C-N	5.36	129.72	122.59
5	8-G	317	GLN	N-CA-CB	5.36	118.10	110.16
5	8-S	335	LEU	CA-C-O	5.36	128.18	120.51
5	8-Y	317	GLN	N-CA-CB	5.36	118.10	110.16
5	8-Y	335	LEU	CA-C-O	5.36	128.18	120.51
4	1-L	475	SER	O-C-N	-5.36	116.44	122.12
6	1-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	2-L	475	SER	O-C-N	-5.36	116.44	122.12
6	2-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	3-L	475	SER	O-C-N	-5.36	116.44	122.12
6	3-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	4-L	475	SER	O-C-N	-5.36	116.44	122.12
6	4-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	5-L	475	SER	O-C-N	-5.36	116.44	122.12
6	5-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	6-L	475	SER	O-C-N	-5.36	116.44	122.12
6	6-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	7-L	475	SER	O-C-N	-5.36	116.44	122.12
6	7-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	8-L	475	SER	O-C-N	-5.36	116.44	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	362	ASP	N-CA-C	-5.36	105.54	111.71
4	1-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	1-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	2-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	2-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	3-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	3-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	4-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	4-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	5-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	5-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	6-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	6-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	7-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	7-R	392	LYS	CB-CA-C	5.36	121.19	109.99
4	8-L	392	LYS	CB-CA-C	5.36	121.19	109.99
4	8-R	392	LYS	CB-CA-C	5.36	121.19	109.99
5	1-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	1-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	2-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	2-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	3-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	3-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	4-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	4-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	5-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	5-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	6-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	6-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	7-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	7-T	391	GLN	CA-C-O	-5.36	114.05	120.10
5	8-S	317	GLN	N-CA-CB	5.36	118.09	110.16
6	8-T	391	GLN	CA-C-O	-5.36	114.05	120.10
3	1-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	1-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	2-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	2-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	3-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	3-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	4-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	4-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	5-D	446	ILE	CB-CA-C	-5.36	105.11	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	6-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	6-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	7-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	7-M	317	GLN	N-CA-CB	5.36	118.09	110.16
3	8-D	446	ILE	CB-CA-C	-5.36	105.11	111.97
5	8-M	317	GLN	N-CA-CB	5.36	118.09	110.16
1	1-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	1-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	2-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	2-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	3-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	3-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	4-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	4-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	5-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	5-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	6-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	6-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	7-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	7-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
1	8-E	302	VAL	N-CA-C	5.36	114.46	106.85
6	8-Z	493	ALA	N-CA-C	-5.36	105.84	112.38
6	1-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	2-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	3-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	4-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	5-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	6-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	7-H	391	GLN	CA-C-O	-5.35	114.05	120.10
6	8-H	391	GLN	CA-C-O	-5.35	114.05	120.10
2	1-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	1-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	1-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	2-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	2-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	2-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	3-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	3-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	3-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	4-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	4-F	392	LYS	CB-CA-C	5.35	121.18	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	5-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	5-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	5-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	6-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	6-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	6-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	7-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	7-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	7-I	341	ALA	CA-C-O	-5.35	114.85	120.63
2	8-C	250	VAL	CB-CA-C	5.35	121.57	111.40
4	8-F	392	LYS	CB-CA-C	5.35	121.18	109.99
2	8-I	341	ALA	CA-C-O	-5.35	114.85	120.63
6	1-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	1-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	1-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	2-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	2-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	2-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	3-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	3-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	3-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	4-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	4-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	4-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	5-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	5-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	5-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	6-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	6-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	6-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	7-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	7-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	7-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
6	8-T	493	ALA	N-CA-C	-5.35	105.86	112.38
2	8-U	250	VAL	CB-CA-C	5.35	121.56	111.40
1	8-W	852	VAL	CB-CA-C	-5.35	105.04	112.04
1	1-B	110	PRO	N-CA-C	5.34	117.22	110.70
1	2-B	110	PRO	N-CA-C	5.34	117.22	110.70
1	3-B	110	PRO	N-CA-C	5.34	117.22	110.70
1	4-B	110	PRO	N-CA-C	5.34	117.22	110.70
1	5-B	110	PRO	N-CA-C	5.34	117.22	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-B	110	PRO	N-CA-C	5.34	117.22	110.70
1	7-B	110	PRO	N-CA-C	5.34	117.22	110.70
1	8-B	110	PRO	N-CA-C	5.34	117.22	110.70
2	1-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	1-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	2-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	2-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	3-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	3-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	4-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	4-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	5-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	5-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	6-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	6-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	7-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	7-O	780	ASP	C-N-CA	-5.34	114.86	122.77
2	8-O	780	ASP	CA-C-N	-5.34	114.86	122.77
2	8-O	780	ASP	C-N-CA	-5.34	114.86	122.77
6	1-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	1-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	1-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	1-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	2-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	2-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	2-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	2-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	3-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	3-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	3-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	3-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	4-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	4-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	4-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	4-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	5-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	5-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	5-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	5-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	6-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	6-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	6-V	1472	SER	N-CA-C	5.34	116.79	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	7-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	7-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	7-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	7-W	302	VAL	N-CA-C	5.34	114.43	106.85
6	8-H	383	LYS	N-CA-CB	5.34	118.38	110.53
3	8-J	1472	SER	N-CA-C	5.34	116.79	110.97
3	8-V	1472	SER	N-CA-C	5.34	116.79	110.97
1	8-W	302	VAL	N-CA-C	5.34	114.43	106.85
2	1-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	1-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	1-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	1-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	2-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	2-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	2-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	2-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	3-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	3-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	3-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	3-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	4-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	4-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	4-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	4-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	5-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	5-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	5-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	5-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	6-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	6-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	6-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	6-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	7-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	7-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	7-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	7-N	401	LYS	C-N-CA	5.34	127.38	120.44
2	8-C	368	GLU	N-CA-C	-5.34	99.43	110.80
2	8-I	250	VAL	CB-CA-C	5.34	121.54	111.40
6	8-N	401	LYS	CA-C-N	5.34	127.38	120.44
6	8-N	401	LYS	C-N-CA	5.34	127.38	120.44
4	1-F	290	PRO	N-CA-CB	5.34	108.87	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	1-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	1-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	2-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	2-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	2-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	2-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	3-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	3-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	3-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	3-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	4-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	4-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	4-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	4-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	5-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	5-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	5-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	5-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	6-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	6-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	6-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	6-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	7-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	7-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	7-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	7-U	368	GLU	N-CA-C	-5.34	99.43	110.80
4	8-F	290	PRO	N-CA-CB	5.34	108.87	103.00
3	8-P	1472	SER	N-CA-C	5.34	116.79	110.97
4	8-R	290	PRO	N-CA-CB	5.34	108.87	103.00
2	8-U	368	GLU	N-CA-C	-5.34	99.43	110.80
6	1-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	1-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	1-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	2-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	2-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	2-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	3-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	3-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	3-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	4-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	4-H	463	ALA	C-N-CA	5.33	126.51	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	5-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	5-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	5-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	6-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	6-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	6-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	7-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	7-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	7-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
6	8-H	463	ALA	CA-C-N	5.33	126.51	119.84
6	8-H	463	ALA	C-N-CA	5.33	126.51	119.84
6	8-Z	383	LYS	N-CA-CB	5.33	118.37	110.53
1	1-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	2-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	3-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	4-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	5-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	6-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	7-A	302	VAL	N-CA-C	5.33	114.42	106.85
1	8-A	302	VAL	N-CA-C	5.33	114.42	106.85
4	1-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	1-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	2-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	2-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	3-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	3-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	4-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	4-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	5-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	5-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	6-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	6-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	7-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	7-R	335	ARG	N-CA-C	5.33	116.77	111.07
4	8-L	290	PRO	N-CA-CB	5.33	108.86	103.00
4	8-R	335	ARG	N-CA-C	5.33	116.77	111.07
1	1-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	1-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	2-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	2-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	3-A	852	VAL	CB-CA-C	-5.33	105.06	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	4-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	4-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	5-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	5-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	6-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	6-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	7-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	7-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	8-A	852	VAL	CB-CA-C	-5.33	105.06	112.04
1	8-E	852	VAL	CB-CA-C	-5.33	105.06	112.04
2	1-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	1-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	1-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	1-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	2-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	2-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	2-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	2-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	3-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	3-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	3-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	3-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	4-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	4-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	4-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	4-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	5-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	5-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	5-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	5-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	6-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	6-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	6-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	6-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	7-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	7-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	7-O	250	VAL	CB-CA-C	5.33	121.53	111.40
2	7-U	341	ALA	CA-C-O	-5.33	114.87	120.63
2	8-I	368	GLU	N-CA-C	-5.33	99.45	110.80
1	8-K	302	VAL	N-CA-C	5.33	114.42	106.85
2	8-O	250	VAL	CB-CA-C	5.33	121.53	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-U	341	ALA	CA-C-O	-5.33	114.87	120.63
4	1-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	1-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	1-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	1-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	1-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	1-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	2-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	2-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	2-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	2-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	2-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	2-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	3-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	3-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	3-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	3-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	3-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	3-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	4-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	4-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	4-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	4-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	4-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	4-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	5-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	5-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	5-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	5-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	5-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	5-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	6-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	6-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	6-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	6-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	6-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	6-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	7-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	7-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	7-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	7-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	7-Z	463	ALA	CA-C-N	5.33	126.50	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	8-F	335	ARG	N-CA-C	5.33	116.77	111.07
6	8-N	383	LYS	N-CA-CB	5.33	118.36	110.53
2	8-O	368	GLU	N-CA-C	-5.33	99.45	110.80
4	8-X	290	PRO	N-CA-CB	5.33	108.86	103.00
6	8-Z	463	ALA	CA-C-N	5.33	126.50	119.84
6	8-Z	463	ALA	C-N-CA	5.33	126.50	119.84
4	1-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	1-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	1-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	2-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	2-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	2-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	3-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	3-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	3-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	4-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	4-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	4-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	5-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	5-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	5-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	6-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	6-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	6-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	7-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	7-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	7-U	780	ASP	C-N-CA	-5.32	114.89	122.77
4	8-R	326	PRO	N-CA-CB	5.32	108.29	103.34
2	8-U	780	ASP	CA-C-N	-5.32	114.89	122.77
2	8-U	780	ASP	C-N-CA	-5.32	114.89	122.77
6	1-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	1-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	2-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	2-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	3-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	3-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	4-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	4-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	5-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	5-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	6-Z	401	LYS	CA-C-N	5.32	127.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	7-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	7-Z	401	LYS	C-N-CA	5.32	127.36	120.44
6	8-Z	401	LYS	CA-C-N	5.32	127.36	120.44
6	8-Z	401	LYS	C-N-CA	5.32	127.36	120.44
1	1-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	1-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	2-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	2-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	3-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	3-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	4-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	4-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	5-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	5-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	6-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	6-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	7-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	7-B	302	VAL	N-CA-C	5.32	114.41	106.85
1	8-A	110	PRO	N-CA-C	5.32	117.19	110.70
1	8-B	302	VAL	N-CA-C	5.32	114.41	106.85
6	1-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	1-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	2-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	2-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	3-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	3-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	4-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	4-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	5-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	5-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	6-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	6-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	7-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	7-Q	302	VAL	N-CA-C	5.32	114.40	106.85
6	8-H	362	ASP	N-CA-C	-5.32	105.60	111.71
1	8-Q	302	VAL	N-CA-C	5.32	114.40	106.85
2	1-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	1-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	1-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	1-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	1-O	463	PHE	CB-CA-C	-5.32	102.53	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	2-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	2-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	2-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	2-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	2-O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	2-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	3-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	3-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	3-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	3-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	3-O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	3-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	4-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	4-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	4-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	4-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	4-O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	4-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	5-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	5-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	5-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	5-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	5-O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	5-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	6-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	6-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	6-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	6-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	6-O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	6-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	7-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	7-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	7-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	7-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	7-O	463	PHE	CB-CA-C	-5.32	102.53	110.88
6	7-T	383	LYS	N-CA-CB	5.32	118.34	110.53
2	8-C	780	ASP	CA-C-N	-5.32	114.90	122.77
2	8-C	780	ASP	C-N-CA	-5.32	114.90	122.77
2	8-I	780	ASP	CA-C-N	-5.32	114.90	122.77
2	8-I	780	ASP	C-N-CA	-5.32	114.90	122.77
2	8-O	463	PHE	CB-CA-C	-5.32	102.53	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	383	LYS	N-CA-CB	5.32	118.34	110.53
4	1-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	2-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	3-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	4-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	5-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	6-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	7-X	335	ARG	N-CA-C	5.31	116.76	111.07
4	8-X	335	ARG	N-CA-C	5.31	116.76	111.07
2	1-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	1-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	1-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	1-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	1-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	1-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	2-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	2-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	2-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	2-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	2-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	2-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	3-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	3-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	3-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	3-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	3-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	3-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	4-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	4-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	4-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	4-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	4-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	4-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	5-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	5-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	5-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	5-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	5-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	5-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	6-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	6-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	6-H	362	ASP	CA-C-N	-5.31	113.37	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	6-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	6-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	7-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	7-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	7-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	7-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	7-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	7-Y	276	SER	N-CA-C	5.31	122.12	110.80
2	8-C	742	ARG	CA-C-N	5.31	127.83	120.29
2	8-C	742	ARG	C-N-CA	5.31	127.83	120.29
6	8-H	362	ASP	CA-C-N	-5.31	113.37	120.54
6	8-H	362	ASP	C-N-CA	-5.31	113.37	120.54
6	8-H	487	TRP	CB-CA-C	-5.31	101.97	110.79
5	8-Y	276	SER	N-CA-C	5.31	122.12	110.80
1	1-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	1-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	1-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	1-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	2-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	2-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	2-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	2-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	3-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	3-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	3-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	3-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	4-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	4-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	4-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	4-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	5-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	5-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	5-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	5-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	6-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	6-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	6-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	6-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	7-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	7-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	7-T	401	LYS	C-N-CA	5.31	127.34	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-W	110	PRO	N-CA-C	5.31	117.18	110.70
1	8-Q	110	PRO	N-CA-C	5.31	117.18	110.70
6	8-T	401	LYS	CA-C-N	5.31	127.34	120.44
6	8-T	401	LYS	C-N-CA	5.31	127.34	120.44
1	8-W	110	PRO	N-CA-C	5.31	117.18	110.70
4	1-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	2-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	3-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	4-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	5-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	6-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	7-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
4	8-L	477	LEU	CB-CA-C	-5.31	101.98	110.79
1	1-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	1-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	1-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	1-G	276	SER	N-CA-C	5.31	122.11	110.80
1	1-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	1-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	1-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	1-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	1-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	1-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	2-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	2-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	2-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	2-G	276	SER	N-CA-C	5.31	122.11	110.80
1	2-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	2-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	2-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	2-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	2-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	2-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	3-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	3-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	3-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	3-G	276	SER	N-CA-C	5.31	122.11	110.80
1	3-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	3-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	3-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	3-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	3-T	463	ALA	CA-C-N	5.31	126.47	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	3-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	4-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	4-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	4-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	4-G	276	SER	N-CA-C	5.31	122.11	110.80
1	4-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	4-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	4-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	4-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	4-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	4-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	5-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	5-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	5-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	5-G	276	SER	N-CA-C	5.31	122.11	110.80
1	5-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	5-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	5-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	5-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	5-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	5-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	6-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	6-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	6-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	6-G	276	SER	N-CA-C	5.31	122.11	110.80
1	6-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	6-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	6-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	6-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	6-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	6-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	7-B	100	MET	CB-CA-C	-5.31	103.69	111.23
2	7-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	7-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	7-G	276	SER	N-CA-C	5.31	122.11	110.80
1	7-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	7-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	7-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	7-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	7-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	7-T	463	ALA	C-N-CA	5.31	126.47	119.84
1	8-B	100	MET	CB-CA-C	-5.31	103.69	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-C	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	8-F	326	PRO	N-CA-CB	5.31	108.28	103.34
5	8-G	276	SER	N-CA-C	5.31	122.11	110.80
1	8-K	396	PHE	N-CA-C	-5.31	99.49	110.80
6	8-N	363	ARG	CB-CA-C	5.31	119.30	110.81
6	8-N	463	ALA	CA-C-N	5.31	126.47	119.84
6	8-N	463	ALA	C-N-CA	5.31	126.47	119.84
6	8-T	463	ALA	CA-C-N	5.31	126.47	119.84
6	8-T	463	ALA	C-N-CA	5.31	126.47	119.84
2	1-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	1-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	1-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	2-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	2-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	2-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	3-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	3-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	3-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	4-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	4-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	4-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	5-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	5-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	5-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	6-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	6-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	6-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	7-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	7-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	7-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
2	8-I	463	PHE	CB-CA-C	-5.31	102.55	110.88
4	8-L	335	ARG	N-CA-C	5.31	116.75	111.07
1	8-Q	852	VAL	CB-CA-C	-5.31	105.09	112.04
4	1-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	1-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	1-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
4	2-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	2-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	2-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
4	3-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	3-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	3-Q	396	PHE	N-CA-C	-5.30	99.50	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	4-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	4-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
4	5-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	5-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	5-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
4	6-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	6-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	6-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
4	7-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	7-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	7-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
4	8-F	477	LEU	CB-CA-C	-5.30	101.98	110.79
6	8-N	362	ASP	N-CA-C	-5.30	105.61	111.71
1	8-Q	396	PHE	N-CA-C	-5.30	99.50	110.80
6	1-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	2-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	3-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	4-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	5-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	6-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	7-T	363	ARG	CB-CA-C	5.30	119.30	110.81
6	8-T	363	ARG	CB-CA-C	5.30	119.30	110.81
4	1-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	1-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	2-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	2-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	3-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	3-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	4-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	4-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	5-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	5-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	6-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	6-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	7-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	7-V	1517	SER	N-CA-CB	5.30	118.73	109.72
4	8-L	342	GLN	N-CA-C	-5.30	105.58	111.36
3	8-V	1517	SER	N-CA-CB	5.30	118.73	109.72
1	1-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	1-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	1-O	742	ARG	CA-C-N	5.30	127.81	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	1-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	1-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	2-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	2-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	2-O	742	ARG	CA-C-N	5.30	127.81	120.29
2	2-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	2-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	2-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	3-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	3-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	3-O	742	ARG	CA-C-N	5.30	127.81	120.29
2	3-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	3-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	3-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	4-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	4-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	4-O	742	ARG	CA-C-N	5.30	127.81	120.29
2	4-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	4-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	4-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	5-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	5-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	5-O	742	ARG	CA-C-N	5.30	127.81	120.29
2	5-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	5-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	5-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	6-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	6-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	6-O	742	ARG	CA-C-N	5.30	127.81	120.29
2	6-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	6-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	6-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	7-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	7-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	7-O	742	ARG	CA-C-N	5.30	127.81	120.29
2	7-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	7-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	7-S	344	ASP	C-N-CA	5.30	128.37	120.31
1	8-A	396	PHE	N-CA-C	-5.30	99.51	110.80
1	8-K	110	PRO	N-CA-C	5.30	117.17	110.70
2	8-O	742	ARG	CA-C-N	5.30	127.81	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-O	742	ARG	C-N-CA	5.30	127.81	120.29
5	8-S	344	ASP	CA-C-N	5.30	128.37	120.31
5	8-S	344	ASP	C-N-CA	5.30	128.37	120.31
2	1-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	1-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	1-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	2-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	2-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	2-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	3-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	3-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	3-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	4-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	4-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	4-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	5-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	5-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	5-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	6-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	6-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	6-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	7-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	7-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	7-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
2	8-I	742	ARG	CA-C-N	5.30	127.81	120.29
2	8-I	742	ARG	C-N-CA	5.30	127.81	120.29
4	8-X	477	LEU	CB-CA-C	-5.30	102.00	110.79
6	1-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	1-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	1-S	276	SER	N-CA-C	5.29	122.08	110.80
6	2-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	2-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	2-S	276	SER	N-CA-C	5.29	122.08	110.80
6	3-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	3-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	3-S	276	SER	N-CA-C	5.29	122.08	110.80
6	4-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	4-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	4-S	276	SER	N-CA-C	5.29	122.08	110.80
6	5-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	5-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	5-S	276	SER	N-CA-C	5.29	122.08	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	6-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	6-S	276	SER	N-CA-C	5.29	122.08	110.80
6	7-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	7-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	7-S	276	SER	N-CA-C	5.29	122.08	110.80
6	8-N	362	ASP	CA-C-N	-5.29	113.39	120.54
6	8-N	362	ASP	C-N-CA	-5.29	113.39	120.54
5	8-S	276	SER	N-CA-C	5.29	122.08	110.80
5	1-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	1-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	1-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	1-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	1-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	1-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	1-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	2-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	2-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	2-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	2-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	2-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	2-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	2-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	3-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	3-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	3-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	3-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	3-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	3-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	3-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	4-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	4-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	4-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	4-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	4-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	4-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	4-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	5-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	5-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	5-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	5-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	5-R	477	LEU	CB-CA-C	-5.29	102.00	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	5-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	6-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	6-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	6-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	6-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	6-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	6-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	6-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	7-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	7-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	7-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	7-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	7-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	7-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	7-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
5	8-G	344	ASP	CA-C-N	5.29	128.36	120.31
5	8-G	344	ASP	C-N-CA	5.29	128.36	120.31
6	8-H	401	LYS	CA-C-N	5.29	127.32	120.44
6	8-H	401	LYS	C-N-CA	5.29	127.32	120.44
4	8-R	477	LEU	CB-CA-C	-5.29	102.00	110.79
4	8-X	326	PRO	N-CA-CB	5.29	108.26	103.34
6	8-Z	363	ARG	CB-CA-C	5.29	119.28	110.81
6	1-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	2-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	3-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	4-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	5-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	6-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	7-H	363	ARG	CB-CA-C	5.29	119.28	110.81
6	8-H	363	ARG	CB-CA-C	5.29	119.28	110.81
1	1-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	1-M	276	SER	N-CA-C	5.29	122.06	110.80
5	1-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	1-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	1-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	1-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	2-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	2-M	276	SER	N-CA-C	5.29	122.06	110.80
5	2-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	2-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	2-U	742	ARG	CA-C-N	5.29	127.80	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	3-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	3-M	276	SER	N-CA-C	5.29	122.06	110.80
5	3-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	3-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	3-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	3-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	4-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	4-M	276	SER	N-CA-C	5.29	122.06	110.80
5	4-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	4-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	4-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	4-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	5-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	5-M	276	SER	N-CA-C	5.29	122.06	110.80
5	5-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	5-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	5-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	5-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	6-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	6-M	276	SER	N-CA-C	5.29	122.06	110.80
5	6-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	6-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	6-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	6-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	7-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	7-M	276	SER	N-CA-C	5.29	122.06	110.80
5	7-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	7-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	7-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	7-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	8-E	221	THR	N-CA-C	-5.29	101.54	109.95
5	8-M	276	SER	N-CA-C	5.29	122.06	110.80
5	8-S	248	PRO	N-CA-CB	-5.29	97.18	103.00
2	8-U	463	PHE	CB-CA-C	-5.29	102.58	110.88
2	8-U	742	ARG	CA-C-N	5.29	127.80	120.29
2	8-U	742	ARG	C-N-CA	5.29	127.80	120.29
1	1-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	1-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	2-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	2-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	3-K	100	MET	CB-CA-C	-5.29	103.72	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	4-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	4-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	5-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	5-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	6-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	6-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	7-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	7-L	326	PRO	N-CA-CB	5.29	108.26	103.34
1	8-K	100	MET	CB-CA-C	-5.29	103.72	111.23
4	8-L	326	PRO	N-CA-CB	5.29	108.26	103.34
4	1-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	2-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	3-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	4-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	5-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	6-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	7-R	342	GLN	N-CA-C	-5.29	105.60	111.36
4	8-R	342	GLN	N-CA-C	-5.29	105.60	111.36
1	1-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	1-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	1-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	1-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	2-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	2-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	2-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	2-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	3-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	3-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	3-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	3-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	4-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	4-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	4-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	4-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	5-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	5-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	5-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	5-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	6-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	6-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	6-W	396	PHE	N-CA-C	-5.28	99.55	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	7-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	7-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	7-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	7-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
1	8-E	110	PRO	N-CA-C	5.28	117.15	110.70
1	8-Q	100	MET	CB-CA-C	-5.28	103.73	111.23
1	8-W	396	PHE	N-CA-C	-5.28	99.55	110.80
6	8-Z	453	ASP	CB-CA-C	-5.28	101.87	110.85
6	1-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	1-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	2-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	2-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	3-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	3-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	4-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	4-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	5-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	5-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	6-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	6-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	7-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	7-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	8-T	487	TRP	CB-CA-C	-5.28	102.02	110.79
6	8-Z	487	TRP	CB-CA-C	-5.28	102.02	110.79
3	1-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	1-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	1-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	2-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	2-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	2-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	3-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	3-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	3-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	4-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	4-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	4-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	5-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	5-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	5-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	6-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	6-Y	344	ASP	CA-C-N	5.28	128.34	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	7-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	7-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	7-Y	344	ASP	C-N-CA	5.28	128.34	120.31
3	8-D	1517	SER	N-CA-CB	5.28	118.69	109.72
5	8-Y	344	ASP	CA-C-N	5.28	128.34	120.31
5	8-Y	344	ASP	C-N-CA	5.28	128.34	120.31
1	1-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	1-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	1-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	2-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	2-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	2-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	3-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	3-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	3-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	4-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	4-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	4-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	5-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	5-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	5-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	6-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	6-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	6-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	7-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	7-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	7-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	8-B	396	PHE	N-CA-C	-5.28	99.56	110.80
6	8-Z	362	ASP	CA-C-N	-5.28	113.42	120.54
6	8-Z	362	ASP	C-N-CA	-5.28	113.42	120.54
1	1-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	1-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	1-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	1-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	2-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	2-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	2-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	2-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	3-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	3-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	3-U	305	LEU	N-CA-C	-5.28	98.15	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	4-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	4-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	4-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	4-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	5-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	5-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	5-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	5-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	6-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	6-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	6-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	6-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	7-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	7-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	7-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	7-W	221	THR	N-CA-C	-5.28	101.56	109.95
1	8-E	396	PHE	N-CA-C	-5.28	99.56	110.80
2	8-O	329	GLY	N-CA-C	-5.28	107.83	115.27
2	8-U	305	LEU	N-CA-C	-5.28	98.15	109.81
1	8-W	221	THR	N-CA-C	-5.28	101.56	109.95
2	1-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	1-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	2-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	2-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	3-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	3-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	4-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	4-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	5-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	5-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	6-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	6-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	7-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	7-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	8-O	305	LEU	N-CA-C	-5.27	98.15	109.81
2	8-U	421	VAL	CB-CA-C	-5.27	104.00	111.28
2	1-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	1-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	1-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	1-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	1-S	315	THR	N-CA-C	-5.27	105.65	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	2-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	2-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	2-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	2-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	3-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	3-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	3-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	3-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	3-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	4-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	4-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	4-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	4-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	4-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	5-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	5-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	5-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	5-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	5-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	6-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	6-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	6-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	6-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	6-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	7-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	7-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	7-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	7-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	7-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	8-C	305	LEU	N-CA-C	-5.27	98.16	109.81
6	8-N	487	TRP	CB-CA-C	-5.27	102.04	110.79
2	8-O	341	ALA	CA-C-O	-5.27	114.94	120.63
2	8-O	421	VAL	CB-CA-C	-5.27	104.00	111.28
5	8-S	315	THR	N-CA-C	-5.27	105.65	111.71
2	1-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	1-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	1-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	1-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	2-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	2-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	2-O	305	LEU	CB-CA-C	5.27	120.55	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	3-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	3-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	3-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	3-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	4-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	4-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	4-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	4-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	5-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	5-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	5-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	5-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	6-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	6-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	6-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	6-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	7-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	7-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	7-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	7-P	1517	SER	N-CA-CB	5.27	118.68	109.72
2	8-C	421	VAL	CB-CA-C	-5.27	104.01	111.28
2	8-I	305	LEU	N-CA-C	-5.27	98.16	109.81
2	8-O	305	LEU	CB-CA-C	5.27	120.55	110.17
3	8-P	1517	SER	N-CA-CB	5.27	118.68	109.72
1	1-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	1-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	2-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	2-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	3-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	3-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	4-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	4-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	5-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	5-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	6-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	6-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	7-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	7-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	8-B	221	THR	N-CA-C	-5.27	101.57	109.95
4	8-F	342	GLN	N-CA-C	-5.27	105.62	111.36
1	1-A	221	THR	N-CA-C	-5.27	101.58	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	1-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	1-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	2-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	2-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	2-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	2-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	3-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	3-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	3-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	3-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	4-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	4-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	4-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	4-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	5-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	5-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	5-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	5-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	6-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	6-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	6-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	6-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	7-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	7-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	7-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	7-T	362	ASP	C-N-CA	-5.27	113.43	120.54
1	8-A	221	THR	N-CA-C	-5.27	101.58	109.95
1	8-K	221	THR	N-CA-C	-5.27	101.58	109.95
6	8-T	362	ASP	CA-C-N	-5.27	113.43	120.54
6	8-T	362	ASP	C-N-CA	-5.27	113.43	120.54
3	1-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	1-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	1-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	1-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	2-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	2-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	2-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	2-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	3-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	3-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	3-K	1341	VAL	C-N-CA	5.26	129.77	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	4-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	4-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	4-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	4-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	5-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	5-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	5-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	5-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	6-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	6-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	6-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	6-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	7-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	7-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	7-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	7-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
3	8-J	1517	SER	N-CA-CB	5.26	118.67	109.72
1	8-K	1341	VAL	CA-C-N	5.26	129.77	121.56
1	8-K	1341	VAL	C-N-CA	5.26	129.77	121.56
5	8-Y	248	PRO	N-CA-CB	-5.26	97.21	103.00
2	1-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	1-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	1-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	1-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	1-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	2-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	2-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	2-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	2-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	2-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	3-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	3-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	3-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	3-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	3-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	4-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	4-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	4-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	4-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	4-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	5-I	421	VAL	CB-CA-C	-5.26	104.02	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	5-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	5-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	5-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	6-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	6-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	6-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	6-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	6-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	7-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	7-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	7-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	7-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	7-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	8-I	421	VAL	CB-CA-C	-5.26	104.02	111.28
3	8-J	1502	ARG	N-CA-C	5.26	117.10	111.36
1	8-Q	1341	VAL	CA-C-N	5.26	129.77	121.56
1	8-Q	1341	VAL	C-N-CA	5.26	129.77	121.56
1	8-W	1342	LEU	N-CA-C	5.26	118.10	110.42
2	1-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	1-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	1-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	2-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	2-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	2-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	3-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	3-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	3-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	4-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	4-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	4-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	5-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	5-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	5-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	6-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	6-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	6-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	7-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	7-E	1342	LEU	N-CA-C	5.26	118.10	110.42
2	7-I	483	GLU	N-CA-CB	5.26	119.44	110.50
2	8-C	524	ARG	CB-CA-C	-5.26	102.97	111.28
1	8-E	1342	LEU	N-CA-C	5.26	118.10	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-I	483	GLU	N-CA-CB	5.26	119.44	110.50
1	1-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	1-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	1-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	1-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	2-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	2-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	2-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	2-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	3-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	3-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	3-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	3-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	4-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	4-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	4-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	4-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	5-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	5-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	5-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	5-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	6-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	6-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	6-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	6-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	7-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	7-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	7-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	7-G	315	THR	N-CA-C	-5.26	105.66	111.71
1	8-E	1341	VAL	CA-C-N	5.26	129.77	121.56
1	8-E	1341	VAL	C-N-CA	5.26	129.77	121.56
5	8-G	248	PRO	N-CA-CB	-5.26	97.22	103.00
5	8-G	315	THR	N-CA-C	-5.26	105.66	111.71
2	1-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	1-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	1-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	1-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	2-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	2-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	2-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	2-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	3-I	524	ARG	CB-CA-C	-5.26	102.97	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	3-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	3-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	3-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	4-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	4-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	4-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	4-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	5-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	5-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	5-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	5-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	6-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	6-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	6-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	6-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	7-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	7-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	7-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	7-M	344	ASP	C-N-CA	5.26	128.30	120.31
2	8-I	524	ARG	CB-CA-C	-5.26	102.97	111.28
3	8-J	1489	HIS	N-CA-C	-5.26	96.13	107.49
5	8-M	344	ASP	CA-C-N	5.26	128.30	120.31
5	8-M	344	ASP	C-N-CA	5.26	128.30	120.31
4	1-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	1-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	1-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	1-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	1-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	1-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	2-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	2-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	2-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	2-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	2-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	2-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	3-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	3-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	3-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	3-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	3-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	3-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	4-F	415	ASP	CA-C-O	-5.26	114.98	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	4-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	4-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	4-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	4-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	5-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	5-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	5-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	5-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	5-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	5-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	6-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	6-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	6-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	6-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	6-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	6-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	7-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	7-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	7-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	7-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	7-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	7-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
4	8-F	415	ASP	CA-C-O	-5.26	114.98	120.55
5	8-M	248	PRO	N-CA-CB	-5.26	97.22	103.00
3	8-P	1489	HIS	N-CA-C	-5.26	96.14	107.49
6	8-T	443	GLN	CB-CA-C	-5.26	102.63	110.88
4	8-X	342	GLN	N-CA-C	-5.26	105.63	111.36
6	8-Z	362	ASP	N-CA-C	-5.26	105.67	111.71
2	1-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	1-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	2-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	2-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	3-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	3-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	4-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	4-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	5-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	5-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	6-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	6-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	7-O	524	ARG	CB-CA-C	-5.25	102.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
2	8-O	524	ARG	CB-CA-C	-5.25	102.98	111.28
3	8-V	1489	HIS	N-CA-C	-5.25	96.14	107.49
1	1-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	1-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	2-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	2-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	3-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	3-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	4-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	4-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	5-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	5-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	6-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	6-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	7-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	7-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
1	8-Q	221	THR	N-CA-C	-5.25	101.60	109.95
6	8-T	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	1-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	1-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	2-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	2-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	3-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	3-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	4-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	4-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	5-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	5-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	6-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	6-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	7-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	7-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
3	8-D	1502	ARG	N-CA-C	5.25	117.08	111.36
6	8-H	453	ASP	CB-CA-C	-5.25	101.92	110.85
5	1-Y	315	THR	N-CA-C	-5.25	105.67	111.71
5	2-Y	315	THR	N-CA-C	-5.25	105.67	111.71
5	3-Y	315	THR	N-CA-C	-5.25	105.67	111.71
5	4-Y	315	THR	N-CA-C	-5.25	105.67	111.71
5	5-Y	315	THR	N-CA-C	-5.25	105.67	111.71
5	6-Y	315	THR	N-CA-C	-5.25	105.67	111.71
5	7-Y	315	THR	N-CA-C	-5.25	105.67	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-Y	315	THR	N-CA-C	-5.25	105.67	111.71
3	1-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	1-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	1-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	2-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	2-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	2-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	3-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	3-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	3-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	4-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	4-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	4-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	5-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	5-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	5-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	6-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	6-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	6-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	7-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	7-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	7-X	415	ASP	CA-C-O	-5.25	114.99	120.55
3	8-D	1489	HIS	N-CA-C	-5.25	96.15	107.49
2	8-U	329	GLY	N-CA-C	-5.25	107.87	115.27
4	8-X	415	ASP	CA-C-O	-5.25	114.99	120.55
4	1-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	1-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	1-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	1-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	1-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	2-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	2-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	2-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	2-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	2-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	3-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	3-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	3-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	3-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	3-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	4-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	4-I	329	GLY	N-CA-C	-5.25	107.87	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	4-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	4-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	5-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	5-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	5-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	5-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	5-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	6-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	6-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	6-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	6-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	6-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	7-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	7-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	7-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	7-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	7-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	8-F	311	GLN	N-CA-CB	5.25	118.02	110.20
2	8-I	329	GLY	N-CA-C	-5.25	107.87	115.27
5	8-M	315	THR	N-CA-C	-5.25	105.68	111.71
2	8-O	483	GLU	N-CA-CB	5.25	119.42	110.50
3	8-P	1502	ARG	N-CA-C	5.25	117.08	111.36
4	1-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	2-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	3-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	4-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	5-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	6-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	7-R	415	ASP	CA-C-O	-5.25	114.99	120.55
4	8-R	415	ASP	CA-C-O	-5.25	114.99	120.55
1	1-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	1-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	2-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	2-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	3-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	3-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	4-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	4-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	5-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	5-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	6-W	1341	VAL	CA-C-N	5.24	129.74	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	7-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	7-W	1341	VAL	C-N-CA	5.24	129.74	121.56
1	8-W	1341	VAL	CA-C-N	5.24	129.74	121.56
1	8-W	1341	VAL	C-N-CA	5.24	129.74	121.56
2	1-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	1-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	1-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	2-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	2-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	2-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	3-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	3-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	3-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	4-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	4-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	4-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	5-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	5-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	5-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	6-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	6-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	6-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	7-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	7-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	7-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	8-C	329	GLY	N-CA-C	-5.24	107.88	115.27
2	8-U	305	LEU	CB-CA-C	5.24	120.50	110.17
2	8-U	483	GLU	N-CA-CB	5.24	119.41	110.50
2	1-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	1-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	1-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	1-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	1-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	2-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	2-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	2-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	2-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	2-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	3-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	3-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	3-J	1502	ARG	CA-C-O	5.24	125.98	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	3-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	4-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	4-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	4-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	4-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	4-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	5-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	5-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	5-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	5-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	5-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	6-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	6-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	6-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	6-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	6-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	7-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	7-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	7-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	7-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	7-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	8-C	483	GLU	N-CA-CB	5.24	119.41	110.50
2	8-I	305	LEU	CB-CA-C	5.24	120.49	110.17
3	8-J	1502	ARG	CA-C-O	5.24	125.98	120.42
1	8-K	1342	LEU	N-CA-C	5.24	118.07	110.42
5	8-S	397	VAL	O-C-N	-5.24	116.77	121.91
2	1-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	1-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	1-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	1-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	2-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	2-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	2-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	2-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	3-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	3-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	3-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	3-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	4-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	4-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	4-N	443	GLN	CB-CA-C	-5.24	102.66	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	4-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	5-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	5-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	5-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	5-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	6-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	6-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	6-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	6-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	7-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	7-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	7-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	7-V	1502	ARG	N-CA-C	5.24	117.07	111.36
2	8-I	31	ARG	CA-C-N	5.24	131.55	121.54
2	8-I	31	ARG	C-N-CA	5.24	131.55	121.54
6	8-N	443	GLN	CB-CA-C	-5.24	102.66	110.88
3	8-V	1502	ARG	N-CA-C	5.24	117.07	111.36
4	1-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	1-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	1-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	1-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	2-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	2-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	2-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	2-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	3-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	3-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	3-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	3-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	4-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	4-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	4-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	4-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	5-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	5-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	5-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	5-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	6-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	6-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	6-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	6-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	7-L	415	ASP	CA-C-O	-5.24	115.00	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	7-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	7-Y	397	VAL	O-C-N	-5.24	116.78	121.91
4	8-L	415	ASP	CA-C-O	-5.24	115.00	120.55
1	8-Q	1140	PHE	N-CA-C	-5.24	105.57	111.28
1	8-Q	1342	LEU	N-CA-C	5.24	118.07	110.42
5	8-Y	397	VAL	O-C-N	-5.24	116.78	121.91
2	1-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	1-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	1-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	2-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	2-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	2-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	3-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	3-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	3-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	4-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	4-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	4-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	5-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	5-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	5-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	6-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	6-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	6-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	7-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	7-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	7-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	8-C	305	LEU	CB-CA-C	5.24	120.48	110.17
4	8-L	311	GLN	N-CA-CB	5.24	118.00	110.20
6	8-N	453	ASP	CB-CA-C	-5.24	101.95	110.85
2	1-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	1-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	2-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	2-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	3-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	3-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	4-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	4-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	5-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	5-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	6-O	343	HIS	CA-C-N	-5.23	112.60	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	7-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	7-O	343	HIS	C-N-CA	-5.23	112.60	121.18
2	8-O	343	HIS	CA-C-N	-5.23	112.60	121.18
2	8-O	343	HIS	C-N-CA	-5.23	112.60	121.18
6	1-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	1-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	1-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	1-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	2-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	2-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	2-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	2-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	3-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	3-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	3-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	3-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	4-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	4-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	4-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	4-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	5-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	5-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	5-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	5-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	6-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	6-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	6-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	6-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	7-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	7-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	7-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	7-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
6	8-H	485	LEU	N-CA-CB	5.23	118.28	110.22
1	8-K	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	8-U	524	ARG	CB-CA-C	-5.23	103.01	111.28
6	8-Z	485	LEU	N-CA-CB	5.23	118.28	110.22
2	1-C	729	GLU	N-CA-C	-5.23	105.69	111.71
2	2-C	729	GLU	N-CA-C	-5.23	105.69	111.71
2	3-C	729	GLU	N-CA-C	-5.23	105.69	111.71
2	4-C	729	GLU	N-CA-C	-5.23	105.69	111.71
2	5-C	729	GLU	N-CA-C	-5.23	105.69	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-C	729	GLU	N-CA-C	-5.23	105.69	111.71
2	7-C	729	GLU	N-CA-C	-5.23	105.69	111.71
2	8-C	729	GLU	N-CA-C	-5.23	105.69	111.71
6	1-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	1-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	1-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	1-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	2-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	2-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	2-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	2-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	3-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	3-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	3-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	3-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	4-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	4-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	4-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	4-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	5-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	5-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	5-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	5-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	6-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	6-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	6-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	6-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	7-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	7-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	7-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	7-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
6	8-H	443	GLN	CB-CA-C	-5.23	102.67	110.88
5	8-M	397	VAL	O-C-N	-5.23	116.78	121.91
6	8-T	485	LEU	N-CA-CB	5.23	118.27	110.22
6	8-Z	446	ARG	N-CA-CB	5.23	117.77	109.82
4	1-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	1-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	1-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	1-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	1-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	2-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	2-H	446	ARG	N-CA-CB	5.23	117.77	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	2-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	2-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	3-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	3-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	3-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	3-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	3-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	4-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	4-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	4-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	4-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	4-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	5-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	5-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	5-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	5-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	5-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	6-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	6-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	6-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	6-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	6-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	7-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	7-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	7-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	7-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	7-U	343	HIS	C-N-CA	-5.23	112.61	121.18
4	8-F	467	LEU	N-CA-CB	5.23	119.21	110.32
6	8-H	446	ARG	N-CA-CB	5.23	117.77	109.82
3	8-J	1667	ALA	N-CA-CB	5.23	117.80	110.12
2	8-U	343	HIS	CA-C-N	-5.23	112.61	121.18
2	8-U	343	HIS	C-N-CA	-5.23	112.61	121.18
2	1-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	1-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	1-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	2-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	2-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	2-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	3-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	3-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	3-E	1140	PHE	N-CA-C	-5.23	105.58	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	4-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	4-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	5-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	5-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	5-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	6-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	6-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	6-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	7-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	7-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	7-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
2	8-C	343	HIS	CA-C-N	-5.23	112.61	121.18
2	8-C	343	HIS	C-N-CA	-5.23	112.61	121.18
1	8-E	1140	PHE	N-CA-C	-5.23	105.58	111.28
4	1-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	1-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	2-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	2-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	3-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	3-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	4-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	4-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	5-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	5-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	6-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	6-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	7-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	7-R	467	LEU	N-CA-CB	5.22	119.20	110.32
4	8-L	364	ASN	N-CA-C	-5.22	105.58	111.28
4	8-R	467	LEU	N-CA-CB	5.22	119.20	110.32
6	1-N	335	SER	N-CA-C	5.22	117.38	111.11
3	1-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	1-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	1-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	2-N	335	SER	N-CA-C	5.22	117.38	111.11
3	2-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	2-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	2-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	3-N	335	SER	N-CA-C	5.22	117.38	111.11
3	3-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	3-V	1667	ALA	N-CA-CB	5.22	117.80	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	4-N	335	SER	N-CA-C	5.22	117.38	111.11
3	4-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	4-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	4-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	5-N	335	SER	N-CA-C	5.22	117.38	111.11
3	5-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	5-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	5-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	6-N	335	SER	N-CA-C	5.22	117.38	111.11
3	6-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	6-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	6-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	7-N	335	SER	N-CA-C	5.22	117.38	111.11
3	7-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	7-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	7-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
6	8-N	335	SER	N-CA-C	5.22	117.38	111.11
3	8-P	1667	ALA	N-CA-CB	5.22	117.80	110.12
3	8-V	1667	ALA	N-CA-CB	5.22	117.80	110.12
4	8-X	396	GLN	N-CA-CB	-5.22	102.50	110.07
3	1-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	2-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	3-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	4-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	5-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	6-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	7-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
3	8-P	1500	LEU	N-CA-C	-5.22	105.48	111.07
2	1-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	1-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	1-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	1-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	1-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	1-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	1-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	1-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	2-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	2-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	2-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	2-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	2-R	311	GLN	N-CA-CB	5.22	117.98	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	2-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	2-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	3-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	3-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	3-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	3-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	3-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	3-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	3-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	3-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	4-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	4-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	4-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	4-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	4-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	4-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	4-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	4-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	5-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	5-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	5-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	5-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	5-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	5-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	5-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	5-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	6-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	6-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	6-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	6-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	6-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	6-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	6-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	6-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	7-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	7-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	7-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	7-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	7-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	7-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	7-U	31	ARG	C-N-CA	5.22	131.51	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
2	8-C	31	ARG	CA-C-N	5.22	131.51	121.54
2	8-C	31	ARG	C-N-CA	5.22	131.51	121.54
4	8-F	364	ASN	N-CA-C	-5.22	105.59	111.28
2	8-I	729	GLU	N-CA-C	-5.22	105.71	111.71
4	8-R	311	GLN	N-CA-CB	5.22	117.98	110.20
2	8-U	31	ARG	CA-C-N	5.22	131.51	121.54
2	8-U	31	ARG	C-N-CA	5.22	131.51	121.54
3	8-V	1500	LEU	N-CA-C	-5.22	105.49	111.07
4	1-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	2-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	3-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	4-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	5-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	6-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	7-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	8-X	311	GLN	N-CA-CB	5.22	117.97	110.20
4	1-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	1-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	1-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	1-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	2-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	2-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	2-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	2-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	3-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	3-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	3-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	3-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	4-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	4-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	4-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	4-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	5-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	5-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	5-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	5-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	6-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	6-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	6-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	6-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	7-L	467	LEU	N-CA-CB	5.22	119.19	110.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	7-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	7-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	7-Y	301	ILE	CA-C-O	5.22	126.10	120.47
4	8-L	467	LEU	N-CA-CB	5.22	119.19	110.32
6	8-N	446	ARG	N-CA-CB	5.22	117.75	109.82
1	8-W	1140	PHE	N-CA-C	-5.22	105.59	111.28
5	8-Y	301	ILE	CA-C-O	5.22	126.10	120.47
3	1-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	1-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	1-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	2-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	2-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	2-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	3-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	3-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	3-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	4-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	4-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	4-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	5-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	5-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	5-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	6-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	6-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	6-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	7-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	7-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	7-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
3	8-D	1500	LEU	N-CA-C	-5.21	105.49	111.07
6	8-Z	335	SER	N-CA-C	5.21	117.37	111.11
6	8-Z	443	GLN	CB-CA-C	-5.21	102.69	110.88
1	1-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	1-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	2-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	2-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	3-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	3-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	4-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	4-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	5-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	5-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	6-B	424	GLU	N-CA-C	-5.21	104.00	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	6-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	7-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	7-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
1	8-B	424	GLU	N-CA-C	-5.21	104.00	110.41
3	8-J	1500	LEU	N-CA-C	-5.21	105.49	111.07
4	1-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	2-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	3-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	4-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	5-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	6-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	7-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	8-X	364	ASN	N-CA-C	-5.21	105.60	111.28
4	1-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	1-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	2-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	2-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	3-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	3-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	4-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	4-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	5-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	5-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	6-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	6-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	7-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	7-X	467	LEU	N-CA-CB	5.21	119.17	110.32
4	8-F	396	GLN	N-CA-CB	-5.21	102.52	110.07
4	8-X	467	LEU	N-CA-CB	5.21	119.17	110.32
3	1-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	1-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	1-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	2-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	2-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	2-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	3-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	3-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	3-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	4-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	4-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	4-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	5-D	1502	ARG	CA-C-O	5.21	125.94	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	5-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	5-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	6-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	6-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	6-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	7-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	7-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	7-U	729	GLU	N-CA-C	-5.21	105.72	111.71
3	8-D	1502	ARG	CA-C-O	5.21	125.94	120.42
3	8-D	1667	ALA	N-CA-CB	5.21	117.78	110.12
2	8-U	729	GLU	N-CA-C	-5.21	105.72	111.71
4	1-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	2-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	3-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	4-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	5-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	6-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	7-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	8-L	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	1-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	1-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	2-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	2-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	3-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	3-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	4-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	4-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	5-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	5-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	6-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	6-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	7-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	7-T	446	ARG	N-CA-CB	5.20	117.73	109.82
4	8-R	129	LEU	N-CA-C	-5.20	105.79	111.82
6	8-T	446	ARG	N-CA-CB	5.20	117.73	109.82
5	1-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	1-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	1-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	1-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	2-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	2-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	2-M	301	ILE	CA-C-O	5.20	126.09	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	2-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	3-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	3-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	3-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	3-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	4-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	4-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	4-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	4-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	5-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	5-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	5-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	5-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	6-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	6-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	6-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	6-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	7-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	7-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	7-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	7-N	485	LEU	N-CA-CB	5.20	118.23	110.22
5	8-G	397	VAL	O-C-N	-5.20	116.81	121.91
1	8-K	343	VAL	CB-CA-C	-5.20	105.31	111.97
5	8-M	301	ILE	CA-C-O	5.20	126.09	120.47
6	8-N	485	LEU	N-CA-CB	5.20	118.23	110.22
4	1-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	1-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	1-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	1-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	1-T	335	SER	N-CA-C	5.20	117.35	111.11
4	1-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	2-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	2-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	2-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	2-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	2-T	335	SER	N-CA-C	5.20	117.35	111.11
4	2-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	3-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	3-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	3-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	3-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	3-T	335	SER	N-CA-C	5.20	117.35	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	4-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	4-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	4-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	4-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	4-T	335	SER	N-CA-C	5.20	117.35	111.11
4	4-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	5-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	5-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	5-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	5-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	5-T	335	SER	N-CA-C	5.20	117.35	111.11
4	5-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	6-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	6-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	6-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	6-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	6-T	335	SER	N-CA-C	5.20	117.35	111.11
4	6-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	7-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	7-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	7-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	7-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	7-T	335	SER	N-CA-C	5.20	117.35	111.11
4	7-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
4	8-F	488	ILE	CB-CA-C	-5.20	105.32	111.97
3	8-J	1666	SER	N-CA-C	-5.20	105.61	111.28
3	8-P	1639	LEU	CA-C-N	5.20	127.77	120.28
3	8-P	1639	LEU	C-N-CA	5.20	127.77	120.28
6	8-T	335	SER	N-CA-C	5.20	117.35	111.11
4	8-X	488	ILE	CB-CA-C	-5.20	105.32	111.97
1	1-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	2-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	3-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	4-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	5-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	6-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	7-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	8-E	343	VAL	CB-CA-C	-5.20	105.32	111.97
1	1-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	1-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	1-P	1502	ARG	CA-C-O	5.20	125.93	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	1-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	2-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	2-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	2-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	2-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	2-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	3-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	3-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	3-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	3-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	3-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	4-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	4-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	4-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	4-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	4-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	5-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	5-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	5-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	5-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	5-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	6-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	6-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	6-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	6-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	6-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	7-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	7-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	7-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	7-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	7-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	8-A	343	VAL	CB-CA-C	-5.20	105.32	111.97
6	8-N	433	THR	N-CA-CB	5.20	117.55	110.01
3	8-P	1502	ARG	CA-C-O	5.20	125.93	120.42
4	8-R	364	ASN	N-CA-C	-5.20	105.62	111.28
1	8-W	424	GLU	N-CA-C	-5.20	104.02	110.41
1	1-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	2-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	3-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	4-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	5-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	7-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	8-Q	343	VAL	CB-CA-C	-5.19	105.32	111.97
1	1-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	1-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	1-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	1-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	1-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	2-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	2-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	2-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	2-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	2-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	3-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	3-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	3-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	3-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	3-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	4-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	4-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	4-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	4-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	4-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	5-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	5-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	5-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	5-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	5-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	6-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	6-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	6-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	6-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	6-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	7-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	7-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	7-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	7-O	729	GLU	N-CA-C	-5.19	105.74	111.71
1	7-W	138	ASP	N-CA-C	-5.19	106.97	113.72
1	8-B	343	VAL	CB-CA-C	-5.19	105.32	111.81
2	8-O	31	ARG	CA-C-N	5.19	131.46	121.54
2	8-O	31	ARG	C-N-CA	5.19	131.46	121.54
2	8-O	729	GLU	N-CA-C	-5.19	105.74	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-W	138	ASP	N-CA-C	-5.19	106.97	113.72
4	1-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	1-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	2-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	2-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	3-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	3-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	4-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	4-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	5-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	5-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	6-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	6-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	7-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	7-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
4	8-L	129	LEU	N-CA-C	-5.19	105.80	111.82
5	8-Y	329	GLN	N-CA-CB	5.19	121.93	111.60
2	1-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	2-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	3-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	4-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	5-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	6-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	7-O	662	ARG	N-CA-CB	5.19	119.26	110.49
2	8-O	662	ARG	N-CA-CB	5.19	119.26	110.49
4	1-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	1-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	1-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	1-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	2-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	2-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	2-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	2-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	3-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	3-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	3-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	3-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	4-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	4-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	4-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	4-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	5-F	129	LEU	N-CA-C	-5.19	105.80	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	5-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	5-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	6-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	6-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	6-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	6-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	7-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	7-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	7-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	7-V	1639	LEU	C-N-CA	5.19	127.75	120.28
4	8-F	129	LEU	N-CA-C	-5.19	105.80	111.82
4	8-L	396	GLN	N-CA-CB	-5.19	102.55	110.07
3	8-V	1639	LEU	CA-C-N	5.19	127.75	120.28
3	8-V	1639	LEU	C-N-CA	5.19	127.75	120.28
6	1-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	1-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	1-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	2-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	2-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	2-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	3-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	3-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	3-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	4-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	4-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	4-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	5-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	5-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	5-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	6-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	6-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	6-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	7-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	7-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	7-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
6	8-H	433	THR	N-CA-CB	5.19	117.53	110.01
1	8-Q	424	GLU	N-CA-C	-5.19	104.03	110.41
1	8-W	1082	TRP	N-CA-C	-5.19	105.75	111.71
1	1-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	2-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	3-E	424	GLU	N-CA-C	-5.18	104.03	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	5-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	6-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	7-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	8-E	424	GLU	N-CA-C	-5.18	104.03	110.41
1	1-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	2-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	3-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	4-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	5-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	6-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	7-W	912	ASP	N-CA-C	-5.18	106.06	112.38
1	8-W	912	ASP	N-CA-C	-5.18	106.06	112.38
5	1-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	2-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	3-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	4-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	5-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	6-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	7-G	329	GLN	N-CA-CB	5.18	121.91	111.60
5	8-G	329	GLN	N-CA-CB	5.18	121.91	111.60
2	1-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	1-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	1-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	1-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	2-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	2-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	2-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	2-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	3-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	3-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	3-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	3-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	4-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	4-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	4-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	4-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	5-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	5-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	5-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	5-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	6-I	343	HIS	CA-C-N	-5.18	112.69	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	6-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	6-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	7-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	7-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	7-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	7-V	1685	LEU	O-C-N	5.18	126.63	121.30
2	8-I	343	HIS	CA-C-N	-5.18	112.69	121.18
2	8-I	343	HIS	C-N-CA	-5.18	112.69	121.18
1	8-K	1082	TRP	N-CA-C	-5.18	105.75	111.71
3	8-V	1685	LEU	O-C-N	5.18	126.63	121.30
3	1-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	1-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	2-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	2-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	3-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	3-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	4-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	4-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	5-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	5-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	6-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	6-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	7-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	7-D	1639	LEU	C-N-CA	5.18	127.73	120.28
3	8-D	1639	LEU	CA-C-N	5.18	127.73	120.28
3	8-D	1639	LEU	C-N-CA	5.18	127.73	120.28
1	1-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	1-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	1-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	1-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	1-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	1-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	1-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	2-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	2-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	2-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	2-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	2-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	2-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	2-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	3-A	424	GLU	N-CA-C	-5.17	104.05	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	3-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	3-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	3-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	3-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	3-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	4-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	4-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	4-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	4-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	4-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	4-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	4-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	5-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	5-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	5-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	5-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	5-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	5-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	5-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	6-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	6-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	6-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	6-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	6-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	6-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	6-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	7-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	7-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	7-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	7-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	7-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	7-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	7-V	1666	SER	N-CA-C	-5.17	105.64	111.28
1	8-A	424	GLU	N-CA-C	-5.17	104.05	110.41
1	8-K	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	8-M	270	GLU	CA-C-O	-5.17	114.94	120.42
4	8-R	488	ILE	CB-CA-C	-5.17	105.35	111.97
5	8-S	329	GLN	N-CA-CB	5.17	121.90	111.60
2	8-U	662	ARG	N-CA-CB	5.17	119.23	110.49
3	8-V	1666	SER	N-CA-C	-5.17	105.64	111.28
2	1-C	662	ARG	N-CA-CB	5.17	119.23	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	1-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	1-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	1-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	1-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	1-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	2-C	662	ARG	N-CA-CB	5.17	119.23	110.49
3	2-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	2-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	2-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	2-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	2-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	3-C	662	ARG	N-CA-CB	5.17	119.23	110.49
3	3-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	3-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	3-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	3-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	3-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	4-C	662	ARG	N-CA-CB	5.17	119.23	110.49
3	4-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	4-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	4-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	4-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	4-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	5-C	662	ARG	N-CA-CB	5.17	119.23	110.49
3	5-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	5-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	5-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	5-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	5-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	6-C	662	ARG	N-CA-CB	5.17	119.23	110.49
3	6-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	6-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	6-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	6-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	6-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	7-C	662	ARG	N-CA-CB	5.17	119.23	110.49
3	7-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	7-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	7-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	7-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	7-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
2	8-C	662	ARG	N-CA-CB	5.17	119.23	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-J	1639	LEU	CA-C-N	5.17	127.73	120.28
3	8-J	1639	LEU	C-N-CA	5.17	127.73	120.28
1	8-K	138	ASP	N-CA-C	-5.17	107.00	113.72
5	8-S	301	ILE	CA-C-O	5.17	126.06	120.47
1	8-W	343	VAL	CB-CA-C	-5.17	105.35	111.97
1	1-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	1-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	2-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	2-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	3-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	3-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	4-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	4-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	5-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	5-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	6-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	6-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	7-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	7-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	8-K	912	ASP	N-CA-C	-5.17	106.07	112.38
3	8-V	1502	ARG	CA-C-O	5.17	125.90	120.42
1	1-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	1-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	1-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	1-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	1-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	1-U	654	SER	CA-C-N	5.17	134.41	121.80
2	1-U	654	SER	C-N-CA	5.17	134.41	121.80
1	2-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	2-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	2-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	2-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	2-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	2-U	654	SER	CA-C-N	5.17	134.41	121.80
2	2-U	654	SER	C-N-CA	5.17	134.41	121.80
1	3-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	3-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	3-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	3-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	3-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	3-U	654	SER	CA-C-N	5.17	134.41	121.80
2	3-U	654	SER	C-N-CA	5.17	134.41	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	4-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	4-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	4-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	4-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	4-U	654	SER	CA-C-N	5.17	134.41	121.80
2	4-U	654	SER	C-N-CA	5.17	134.41	121.80
1	5-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	5-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	5-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	5-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	5-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	5-U	654	SER	CA-C-N	5.17	134.41	121.80
2	5-U	654	SER	C-N-CA	5.17	134.41	121.80
1	6-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	6-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	6-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	6-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	6-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	6-U	654	SER	CA-C-N	5.17	134.41	121.80
2	6-U	654	SER	C-N-CA	5.17	134.41	121.80
1	7-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	7-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	7-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	7-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	7-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	7-U	654	SER	CA-C-N	5.17	134.41	121.80
2	7-U	654	SER	C-N-CA	5.17	134.41	121.80
1	8-B	138	ASP	N-CA-C	-5.17	107.00	113.72
1	8-E	1172	GLN	N-CA-C	-5.17	106.23	112.54
5	8-M	329	GLN	N-CA-CB	5.17	121.88	111.60
3	8-P	1666	SER	N-CA-C	-5.17	105.65	111.28
1	8-Q	912	ASP	N-CA-C	-5.17	106.08	112.38
2	8-U	654	SER	CA-C-N	5.17	134.41	121.80
2	8-U	654	SER	C-N-CA	5.17	134.41	121.80
1	1-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	1-F	492	GLU	O-C-N	5.17	129.46	122.59
4	1-L	492	GLU	O-C-N	5.17	129.46	122.59
1	1-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	1-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	2-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	2-F	492	GLU	O-C-N	5.17	129.46	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-L	492	GLU	O-C-N	5.17	129.46	122.59
1	2-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	2-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	3-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	3-F	492	GLU	O-C-N	5.17	129.46	122.59
4	3-L	492	GLU	O-C-N	5.17	129.46	122.59
1	3-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	3-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	4-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	4-F	492	GLU	O-C-N	5.17	129.46	122.59
4	4-L	492	GLU	O-C-N	5.17	129.46	122.59
1	4-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	4-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	5-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	5-F	492	GLU	O-C-N	5.17	129.46	122.59
4	5-L	492	GLU	O-C-N	5.17	129.46	122.59
1	5-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	5-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	6-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	6-F	492	GLU	O-C-N	5.17	129.46	122.59
4	6-L	492	GLU	O-C-N	5.17	129.46	122.59
1	6-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	6-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	7-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	7-F	492	GLU	O-C-N	5.17	129.46	122.59
4	7-L	492	GLU	O-C-N	5.17	129.46	122.59
1	7-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	7-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
1	8-E	1082	TRP	N-CA-C	-5.17	105.77	111.71
4	8-F	492	GLU	O-C-N	5.17	129.46	122.59
4	8-L	492	GLU	O-C-N	5.17	129.46	122.59
1	8-Q	1082	TRP	N-CA-C	-5.17	105.77	111.71
5	8-Y	407	HIS	N-CA-C	-5.17	105.65	111.28
3	1-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	1-O	654	SER	CA-C-N	5.17	134.40	121.80
2	1-O	654	SER	C-N-CA	5.17	134.40	121.80
1	1-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	2-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	2-O	654	SER	CA-C-N	5.17	134.40	121.80
2	2-O	654	SER	C-N-CA	5.17	134.40	121.80
1	2-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	3-D	1666	SER	N-CA-C	-5.17	105.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-O	654	SER	CA-C-N	5.17	134.40	121.80
2	3-O	654	SER	C-N-CA	5.17	134.40	121.80
1	3-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	4-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	4-O	654	SER	CA-C-N	5.17	134.40	121.80
2	4-O	654	SER	C-N-CA	5.17	134.40	121.80
1	4-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	5-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	5-O	654	SER	CA-C-N	5.17	134.40	121.80
2	5-O	654	SER	C-N-CA	5.17	134.40	121.80
1	5-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	6-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	6-O	654	SER	CA-C-N	5.17	134.40	121.80
2	6-O	654	SER	C-N-CA	5.17	134.40	121.80
1	6-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	7-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	7-O	654	SER	CA-C-N	5.17	134.40	121.80
2	7-O	654	SER	C-N-CA	5.17	134.40	121.80
1	7-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
3	8-D	1666	SER	N-CA-C	-5.17	105.65	111.28
2	8-O	654	SER	CA-C-N	5.17	134.40	121.80
2	8-O	654	SER	C-N-CA	5.17	134.40	121.80
1	8-Q	138	ASP	N-CA-C	-5.17	107.01	113.72
2	1-C	654	SER	CA-C-N	5.16	134.40	121.80
2	1-C	654	SER	C-N-CA	5.16	134.40	121.80
5	1-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	1-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	2-C	654	SER	CA-C-N	5.16	134.40	121.80
2	2-C	654	SER	C-N-CA	5.16	134.40	121.80
5	2-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	2-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	3-C	654	SER	CA-C-N	5.16	134.40	121.80
2	3-C	654	SER	C-N-CA	5.16	134.40	121.80
5	3-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	3-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	4-C	654	SER	CA-C-N	5.16	134.40	121.80
2	4-C	654	SER	C-N-CA	5.16	134.40	121.80
5	4-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	4-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	5-C	654	SER	CA-C-N	5.16	134.40	121.80
2	5-C	654	SER	C-N-CA	5.16	134.40	121.80
5	5-G	301	ILE	CA-C-O	5.16	126.05	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	6-C	654	SER	CA-C-N	5.16	134.40	121.80
2	6-C	654	SER	C-N-CA	5.16	134.40	121.80
5	6-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	6-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	7-C	654	SER	CA-C-N	5.16	134.40	121.80
2	7-C	654	SER	C-N-CA	5.16	134.40	121.80
5	7-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	7-K	424	GLU	N-CA-C	-5.16	104.06	110.41
2	8-C	654	SER	CA-C-N	5.16	134.40	121.80
2	8-C	654	SER	C-N-CA	5.16	134.40	121.80
5	8-G	301	ILE	CA-C-O	5.16	126.05	120.47
1	8-K	424	GLU	N-CA-C	-5.16	104.06	110.41
1	1-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	2-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	3-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	4-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	5-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	6-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	7-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	8-E	138	ASP	N-CA-C	-5.16	107.01	113.72
1	1-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	1-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	1-X	129	LEU	N-CA-C	-5.16	105.83	111.82
1	2-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	2-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	2-X	129	LEU	N-CA-C	-5.16	105.83	111.82
1	3-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	3-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	3-X	129	LEU	N-CA-C	-5.16	105.83	111.82
1	4-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	4-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	4-X	129	LEU	N-CA-C	-5.16	105.83	111.82
1	5-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	5-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	5-X	129	LEU	N-CA-C	-5.16	105.83	111.82
1	6-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	6-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	6-X	129	LEU	N-CA-C	-5.16	105.83	111.82
1	7-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	7-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	7-X	129	LEU	N-CA-C	-5.16	105.83	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-A	138	ASP	N-CA-C	-5.16	107.01	113.72
1	8-K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
4	8-X	129	LEU	N-CA-C	-5.16	105.83	111.82
4	1-X	492	GLU	O-C-N	5.16	129.45	122.59
4	2-X	492	GLU	O-C-N	5.16	129.45	122.59
4	3-X	492	GLU	O-C-N	5.16	129.45	122.59
4	4-X	492	GLU	O-C-N	5.16	129.45	122.59
4	5-X	492	GLU	O-C-N	5.16	129.45	122.59
4	6-X	492	GLU	O-C-N	5.16	129.45	122.59
4	7-X	492	GLU	O-C-N	5.16	129.45	122.59
4	8-X	492	GLU	O-C-N	5.16	129.45	122.59
2	1-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	1-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	2-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	2-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	3-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	3-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	4-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	4-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	5-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	5-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	6-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	6-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	7-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	7-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	8-I	662	ARG	N-CA-CB	5.16	119.21	110.49
1	8-Q	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	1-I	654	SER	CA-C-N	5.16	134.38	121.80
2	1-I	654	SER	C-N-CA	5.16	134.38	121.80
4	1-R	492	GLU	O-C-N	5.16	129.45	122.59
1	1-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	2-I	654	SER	CA-C-N	5.16	134.38	121.80
2	2-I	654	SER	C-N-CA	5.16	134.38	121.80
4	2-R	492	GLU	O-C-N	5.16	129.45	122.59
1	2-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	3-I	654	SER	CA-C-N	5.16	134.38	121.80
2	3-I	654	SER	C-N-CA	5.16	134.38	121.80
4	3-R	492	GLU	O-C-N	5.16	129.45	122.59
1	3-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	4-I	654	SER	CA-C-N	5.16	134.38	121.80
2	4-I	654	SER	C-N-CA	5.16	134.38	121.80
4	4-R	492	GLU	O-C-N	5.16	129.45	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	5-I	654	SER	CA-C-N	5.16	134.38	121.80
2	5-I	654	SER	C-N-CA	5.16	134.38	121.80
4	5-R	492	GLU	O-C-N	5.16	129.45	122.59
1	5-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	6-I	654	SER	CA-C-N	5.16	134.38	121.80
2	6-I	654	SER	C-N-CA	5.16	134.38	121.80
4	6-R	492	GLU	O-C-N	5.16	129.45	122.59
1	6-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	7-I	654	SER	CA-C-N	5.16	134.38	121.80
2	7-I	654	SER	C-N-CA	5.16	134.38	121.80
4	7-R	492	GLU	O-C-N	5.16	129.45	122.59
1	7-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
2	8-I	654	SER	CA-C-N	5.16	134.38	121.80
2	8-I	654	SER	C-N-CA	5.16	134.38	121.80
4	8-R	492	GLU	O-C-N	5.16	129.45	122.59
1	8-W	1172	GLN	N-CA-C	-5.16	106.25	112.54
1	1-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	1-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	2-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	2-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	3-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	3-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	4-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	4-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	5-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	5-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	6-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	6-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	7-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	7-J	1685	LEU	O-C-N	5.15	126.61	121.30
1	8-E	912	ASP	N-CA-C	-5.15	106.09	112.38
3	8-J	1685	LEU	O-C-N	5.15	126.61	121.30
4	1-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	2-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	3-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	4-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	5-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	6-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	7-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
4	8-X	335	ARG	N-CA-CB	-5.15	102.54	110.01
5	1-S	270	GLU	CA-C-O	-5.15	114.96	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	2-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	3-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	4-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	5-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	6-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	7-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	8-S	270	GLU	CA-C-O	-5.15	114.96	120.42
5	1-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	1-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	2-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	2-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	3-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	3-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	4-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	4-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	5-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	5-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	6-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	6-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	7-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	7-P	1685	LEU	O-C-N	5.15	126.60	121.30
5	8-G	323	GLU	CB-CA-C	5.15	120.56	110.67
3	8-P	1685	LEU	O-C-N	5.15	126.60	121.30
1	1-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	1-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	1-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	1-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	1-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	1-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	1-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	1-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	1-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	2-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	2-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	2-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	2-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	2-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	2-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	2-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	2-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	2-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	3-E	1089	ARG	N-CA-C	-5.15	105.75	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	3-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	3-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	3-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	3-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	3-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	3-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	3-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	4-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	4-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	4-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	4-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	4-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	4-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	4-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	4-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	4-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	5-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	5-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	5-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	5-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	5-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	5-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	5-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	5-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	5-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	6-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	6-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	6-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	6-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	6-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	6-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	6-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	6-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	6-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	7-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	7-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	7-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	7-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	7-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	7-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	7-S	323	GLU	CB-CA-C	5.15	120.55	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	7-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
1	8-E	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	8-L	335	ARG	N-CA-CB	-5.15	102.55	110.01
5	8-M	397	VAL	CA-C-N	5.15	127.60	120.29
5	8-M	397	VAL	C-N-CA	5.15	127.60	120.29
1	8-Q	1089	ARG	N-CA-C	-5.15	105.75	111.36
4	8-R	396	GLN	N-CA-CB	-5.15	102.61	110.07
5	8-S	323	GLU	CB-CA-C	5.15	120.55	110.67
1	8-W	1089	ARG	N-CA-C	-5.15	105.75	111.36
1	8-W	1274	GLN	CB-CA-C	-5.15	102.80	110.88
3	1-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	1-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	1-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	1-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	1-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	2-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	2-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	2-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	2-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	2-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	3-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	3-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	3-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	3-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	3-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	4-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	4-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	4-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	4-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	4-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	5-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	5-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	5-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	5-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	5-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	6-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	6-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	6-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	6-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	6-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	7-D	1685	LEU	O-C-N	5.14	126.60	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	7-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	7-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	7-S	397	VAL	C-N-CA	5.14	127.60	120.29
3	8-D	1685	LEU	O-C-N	5.14	126.60	121.30
1	8-K	1089	ARG	N-CA-C	-5.14	105.75	111.36
5	8-M	323	GLU	CA-C-O	5.14	125.89	119.97
5	8-S	397	VAL	CA-C-N	5.14	127.60	120.29
5	8-S	397	VAL	C-N-CA	5.14	127.60	120.29
2	1-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	1-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	2-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	2-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	3-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	3-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	4-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	4-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	5-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	5-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	6-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	6-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	7-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	7-S	407	HIS	N-CA-C	-5.14	105.67	111.28
2	8-O	433	ASP	N-CA-C	-5.14	104.62	111.87
5	8-S	407	HIS	N-CA-C	-5.14	105.67	111.28
4	1-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	1-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	2-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	2-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	3-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	3-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	4-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	4-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	5-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	5-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	6-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	6-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	7-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	7-U	433	ASP	N-CA-C	-5.14	104.62	111.87
4	8-R	464	LYS	N-CA-CB	5.14	119.18	110.49
2	8-U	433	ASP	N-CA-C	-5.14	104.62	111.87
1	1-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	1-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	2-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	2-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	2-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	3-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	3-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	3-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	4-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	4-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	4-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	5-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	5-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	5-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	6-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	6-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	6-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	7-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	7-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	7-G	281	LEU	N-CA-C	-5.14	105.80	111.71
1	8-E	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	8-F	335	ARG	N-CA-CB	-5.14	102.56	110.01
5	8-G	281	LEU	N-CA-C	-5.14	105.80	111.71
6	1-H	335	SER	N-CA-C	5.14	117.28	111.11
5	1-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	1-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	2-H	335	SER	N-CA-C	5.14	117.28	111.11
5	2-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	2-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	3-H	335	SER	N-CA-C	5.14	117.28	111.11
5	3-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	3-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	4-H	335	SER	N-CA-C	5.14	117.28	111.11
5	4-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	4-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	5-H	335	SER	N-CA-C	5.14	117.28	111.11
5	5-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	5-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	6-H	335	SER	N-CA-C	5.14	117.28	111.11
5	6-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	6-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	7-H	335	SER	N-CA-C	5.14	117.28	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	7-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
6	8-H	335	SER	N-CA-C	5.14	117.28	111.11
5	8-M	323	GLU	CB-CA-C	5.14	120.54	110.67
4	8-R	335	ARG	N-CA-CB	-5.14	102.56	110.01
4	1-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	1-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	2-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	2-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	3-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	3-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	4-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	4-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	5-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	5-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	6-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	6-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	7-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	7-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	8-F	464	LYS	N-CA-CB	5.14	119.17	110.49
1	8-Q	1274	GLN	CB-CA-C	-5.14	102.81	110.88
4	1-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	1-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	2-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	2-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	3-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	3-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	4-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	4-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	5-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	5-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	6-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	6-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	7-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	7-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
4	8-X	464	LYS	N-CA-CB	5.13	119.17	110.49
5	8-Y	270	GLU	CA-C-O	-5.13	114.98	120.42
5	1-S	323	GLU	CA-C-O	5.13	125.87	119.97
5	2-S	323	GLU	CA-C-O	5.13	125.87	119.97
5	3-S	323	GLU	CA-C-O	5.13	125.87	119.97
5	4-S	323	GLU	CA-C-O	5.13	125.87	119.97
5	5-S	323	GLU	CA-C-O	5.13	125.87	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-S	323	GLU	CA-C-O	5.13	125.87	119.97
5	7-S	323	GLU	CA-C-O	5.13	125.87	119.97
5	8-S	323	GLU	CA-C-O	5.13	125.87	119.97
2	1-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	2-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	3-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	4-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	5-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	6-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	7-O	447	ASP	N-CA-CB	5.13	119.22	110.50
2	8-O	447	ASP	N-CA-CB	5.13	119.22	110.50
5	1-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	1-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	2-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	2-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	3-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	3-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	4-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	4-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	5-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	5-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	6-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	6-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	7-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	7-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	8-G	397	VAL	CA-C-N	5.13	127.57	120.29
5	8-G	397	VAL	C-N-CA	5.13	127.57	120.29
5	1-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	1-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	1-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	1-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	1-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
5	2-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	2-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	2-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	2-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	2-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
5	3-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	3-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	3-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	3-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	3-Z	489	ASP	C-N-CA	-5.13	114.29	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	4-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	4-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	4-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	4-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
5	5-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	5-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	5-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	5-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	5-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
5	6-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	6-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	6-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	6-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	6-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
5	7-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	7-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	7-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	7-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	7-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
5	8-G	407	HIS	N-CA-C	-5.13	105.69	111.28
5	8-Y	397	VAL	CA-C-N	5.13	127.57	120.29
5	8-Y	397	VAL	C-N-CA	5.13	127.57	120.29
6	8-Z	489	ASP	CA-C-N	-5.13	114.29	122.29
6	8-Z	489	ASP	C-N-CA	-5.13	114.29	122.29
1	1-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	1-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	1-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	2-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	2-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	2-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	3-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	3-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	3-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	4-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	4-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	4-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	5-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	5-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	5-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	6-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	6-E	316	ALA	C-N-CA	-5.12	112.78	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	6-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	7-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	7-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	7-Y	323	GLU	CA-C-O	5.12	125.86	119.97
1	8-E	316	ALA	CA-C-N	-5.12	112.78	121.85
1	8-E	316	ALA	C-N-CA	-5.12	112.78	121.85
5	8-Y	323	GLU	CA-C-O	5.12	125.86	119.97
6	1-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	1-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	1-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	2-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	2-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	2-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	3-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	3-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	3-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	4-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	4-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	4-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	5-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	5-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	5-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	6-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	6-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	6-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	7-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	7-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	7-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
6	8-H	489	ASP	CA-C-N	-5.12	114.30	122.29
6	8-H	489	ASP	C-N-CA	-5.12	114.30	122.29
5	8-Y	323	GLU	CB-CA-C	5.12	120.50	110.67
1	1-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	1-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	1-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	2-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	2-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	2-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	3-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	3-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	3-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	4-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	4-B	316	ALA	C-N-CA	-5.12	112.79	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	5-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	5-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	5-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	6-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	6-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	6-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	7-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	7-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	7-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
1	8-B	316	ALA	CA-C-N	-5.12	112.79	121.85
1	8-B	316	ALA	C-N-CA	-5.12	112.79	121.85
2	8-C	618	ASN	CB-CA-C	-5.12	102.84	110.88
3	1-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	1-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	1-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	1-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	2-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	2-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	2-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	2-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	3-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	3-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	3-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	3-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	4-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	4-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	4-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	4-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	5-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	5-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	5-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	5-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	6-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	6-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	6-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	6-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	7-D	1452	LEU	N-CA-C	-5.12	105.60	111.07
5	7-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	7-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	7-M	407	HIS	N-CA-C	-5.12	105.70	111.28
3	8-D	1452	LEU	N-CA-C	-5.12	105.60	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	8-G	270	GLU	CA-C-O	-5.12	115.00	120.42
2	8-I	455	VAL	CB-CA-C	-5.12	101.68	111.40
5	8-M	407	HIS	N-CA-C	-5.12	105.70	111.28
2	1-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	1-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	2-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	2-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	3-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	3-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	4-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	4-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	5-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	5-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	6-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	6-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	7-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	7-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	8-I	433	ASP	N-CA-C	-5.11	104.66	111.87
3	8-V	1452	LEU	N-CA-C	-5.11	105.60	111.07
2	1-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	1-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	1-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	2-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	2-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	2-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	3-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	3-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	3-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	4-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	4-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	4-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	5-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	5-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	5-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	6-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	6-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	6-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	7-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	7-Q	73	LEU	N-CA-C	-5.11	107.00	113.23
6	7-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	8-C	433	ASP	N-CA-C	-5.11	104.66	111.87
1	8-Q	73	LEU	N-CA-C	-5.11	107.00	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	8-T	381	LYS	CB-CA-C	-5.11	100.86	110.67
4	1-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	1-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	1-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	2-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	2-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	2-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	3-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	3-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	3-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	4-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	4-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	4-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	5-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	5-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	5-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	6-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	6-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	6-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	7-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	7-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	7-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
4	8-X	339	VAL	CA-C-N	5.11	127.13	120.28
4	8-X	339	VAL	C-N-CA	5.11	127.13	120.28
5	8-Y	281	LEU	N-CA-C	-5.11	105.83	111.71
2	1-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	1-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	1-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	2-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	2-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	2-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	3-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	3-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	3-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	4-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	4-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	4-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	5-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	5-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	5-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	6-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	6-O	455	VAL	CB-CA-C	-5.11	101.69	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	6-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	7-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	7-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	7-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
2	8-C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	8-O	455	VAL	CB-CA-C	-5.11	101.69	111.40
6	8-Z	381	LYS	CB-CA-C	-5.11	100.86	110.67
4	1-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	1-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	2-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	2-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	3-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	3-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	4-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	4-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	5-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	5-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	6-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	6-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	7-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	7-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
4	8-L	464	LYS	N-CA-CB	5.11	119.12	110.49
2	8-O	618	ASN	CB-CA-C	-5.11	102.86	110.88
1	1-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	1-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	2-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	2-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	3-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	3-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	4-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	4-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	5-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	5-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	6-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	6-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	7-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	7-K	316	ALA	C-N-CA	-5.10	112.82	121.85
1	8-K	316	ALA	CA-C-N	-5.10	112.82	121.85
1	8-K	316	ALA	C-N-CA	-5.10	112.82	121.85
5	1-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	1-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	2-M	281	LEU	N-CA-C	-5.10	105.84	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	3-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	3-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	4-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	4-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	5-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	5-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	6-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	6-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	7-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	7-U	447	ASP	N-CA-CB	5.10	119.17	110.50
5	8-M	281	LEU	N-CA-C	-5.10	105.84	111.71
2	8-U	447	ASP	N-CA-CB	5.10	119.17	110.50
3	1-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	1-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	1-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	1-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	1-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	1-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	1-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	1-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	2-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	2-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	2-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	2-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	2-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	2-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	2-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	2-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	3-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	3-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	3-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	3-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	3-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	3-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	3-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	3-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	4-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	4-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	4-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	4-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	4-Q	316	ALA	CA-C-N	-5.10	112.83	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	4-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	4-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	5-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	5-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	5-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	5-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	5-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	5-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	5-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	5-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	6-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	6-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	6-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	6-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	6-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	6-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	6-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	6-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	7-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	7-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	7-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	7-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	7-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	7-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	7-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	7-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
3	8-J	1452	LEU	N-CA-C	-5.10	105.61	111.07
6	8-N	381	LYS	CB-CA-C	-5.10	100.88	110.67
6	8-N	489	ASP	CA-C-N	-5.10	114.33	122.29
6	8-N	489	ASP	C-N-CA	-5.10	114.33	122.29
1	8-Q	316	ALA	CA-C-N	-5.10	112.83	121.85
1	8-Q	316	ALA	C-N-CA	-5.10	112.83	121.85
5	8-S	281	LEU	N-CA-C	-5.10	105.85	111.71
5	8-Y	299	ASN	N-CA-CB	5.10	118.07	110.22
1	1-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	1-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	1-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	1-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	1-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	1-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	2-A	316	ALA	CA-C-N	-5.10	112.83	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	2-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	2-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	2-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	2-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	3-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	3-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	3-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	3-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	3-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	3-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	4-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	4-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	4-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	4-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	4-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	4-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	5-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	5-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	5-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	5-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	5-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	5-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	6-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	6-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	6-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	6-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	6-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	6-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	7-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	7-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	7-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	7-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	7-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	7-U	467	PHE	N-CA-CB	5.10	117.61	110.12
1	8-A	316	ALA	CA-C-N	-5.10	112.83	121.85
1	8-A	316	ALA	C-N-CA	-5.10	112.83	121.85
1	8-A	401	THR	N-CA-C	-5.10	105.78	112.41
4	8-L	339	VAL	CA-C-N	5.10	127.11	120.28
4	8-L	339	VAL	C-N-CA	5.10	127.11	120.28
2	8-U	467	PHE	N-CA-CB	5.10	117.61	110.12
4	1-R	339	VAL	CA-C-N	5.10	127.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	2-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	2-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	3-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	3-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	4-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	4-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	5-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	5-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	6-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	6-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	7-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	7-R	339	VAL	C-N-CA	5.10	127.11	120.28
4	8-R	339	VAL	CA-C-N	5.10	127.11	120.28
4	8-R	339	VAL	C-N-CA	5.10	127.11	120.28
1	1-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	1-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	1-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	1-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	2-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	2-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	2-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	2-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	3-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	3-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	3-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	3-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	4-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	4-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	4-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	4-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	5-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	5-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	5-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	5-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	6-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	6-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	6-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	6-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	7-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	7-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	7-I	447	ASP	N-CA-CB	5.09	119.16	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	7-S	319	LEU	N-CA-C	-5.09	105.17	111.33
1	8-B	73	LEU	N-CA-C	-5.09	107.02	113.23
6	8-H	381	LYS	CB-CA-C	-5.09	100.89	110.67
2	8-I	447	ASP	N-CA-CB	5.09	119.16	110.50
5	8-S	319	LEU	N-CA-C	-5.09	105.17	111.33
6	1-H	377	ARG	O-C-N	5.09	129.36	122.59
6	1-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	1-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	1-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	2-H	377	ARG	O-C-N	5.09	129.36	122.59
6	2-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	2-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	2-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	3-H	377	ARG	O-C-N	5.09	129.36	122.59
6	3-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	3-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	3-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	4-H	377	ARG	O-C-N	5.09	129.36	122.59
6	4-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	4-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	4-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	5-H	377	ARG	O-C-N	5.09	129.36	122.59
6	5-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	5-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	5-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	6-H	377	ARG	O-C-N	5.09	129.36	122.59
6	6-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	6-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	6-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	7-H	377	ARG	O-C-N	5.09	129.36	122.59
6	7-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	7-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	7-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	8-H	377	ARG	O-C-N	5.09	129.36	122.59
6	8-T	489	ASP	CA-C-N	-5.09	114.34	122.29
6	8-T	489	ASP	C-N-CA	-5.09	114.34	122.29
2	8-U	618	ASN	CB-CA-C	-5.09	102.88	110.88
1	1-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	1-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	1-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	2-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	2-I	618	ASN	CB-CA-C	-5.09	102.89	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	3-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	3-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	3-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	4-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	4-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	4-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	5-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	5-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	5-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	6-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	6-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	6-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	7-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	7-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	7-W	73	LEU	N-CA-C	-5.09	107.02	113.23
1	8-A	73	LEU	N-CA-C	-5.09	107.02	113.23
2	8-I	618	ASN	CB-CA-C	-5.09	102.89	110.88
1	8-W	73	LEU	N-CA-C	-5.09	107.02	113.23
2	1-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	1-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	1-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	2-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	2-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	2-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	3-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	3-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	3-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	4-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	4-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	4-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	5-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	5-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	5-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	6-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	6-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	6-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	7-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	7-J	800	PRO	N-CA-CB	5.09	106.04	103.19
1	7-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	8-C	467	PHE	N-CA-CB	5.09	117.60	110.12
3	8-J	800	PRO	N-CA-CB	5.09	106.04	103.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8-K	73	LEU	N-CA-C	-5.09	107.02	113.23
2	1-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	1-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	1-T	377	ARG	O-C-N	5.09	129.36	122.59
2	2-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	2-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	2-T	377	ARG	O-C-N	5.09	129.36	122.59
2	3-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	3-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	3-T	377	ARG	O-C-N	5.09	129.36	122.59
2	4-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	4-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	4-T	377	ARG	O-C-N	5.09	129.36	122.59
2	5-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	5-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	5-T	377	ARG	O-C-N	5.09	129.36	122.59
2	6-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	6-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	6-T	377	ARG	O-C-N	5.09	129.36	122.59
2	7-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	7-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	7-T	377	ARG	O-C-N	5.09	129.36	122.59
2	8-I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	8-P	1452	LEU	N-CA-C	-5.09	105.62	111.07
6	8-T	377	ARG	O-C-N	5.09	129.36	122.59
2	1-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	1-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	1-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	1-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	1-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	1-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	2-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	2-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	2-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	2-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	2-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	2-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	3-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	3-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	3-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	3-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	3-U	412	ASP	N-CA-C	-5.09	105.74	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	4-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	4-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	4-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	4-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	4-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	4-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	5-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	5-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	5-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	5-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	5-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	5-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	6-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	6-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	6-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	6-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	6-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	6-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	7-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	7-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	7-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	7-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	7-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	7-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	8-C	711	PHE	N-CA-CB	5.09	117.60	110.12
4	8-F	339	VAL	CA-C-N	5.09	127.10	120.28
4	8-F	339	VAL	C-N-CA	5.09	127.10	120.28
2	8-O	467	PHE	N-CA-CB	5.09	117.60	110.12
2	8-U	412	ASP	N-CA-C	-5.09	105.74	111.28
2	8-U	455	VAL	CB-CA-C	-5.09	101.74	111.40
2	1-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	2-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	3-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	4-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	5-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	6-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	7-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	8-I	602	THR	N-CA-CB	5.08	119.08	110.49
2	1-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	1-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	2-I	467	PHE	N-CA-CB	5.08	117.59	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	3-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	3-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	4-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	4-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	5-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	5-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	6-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	6-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	7-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	7-I	711	PHE	N-CA-CB	5.08	117.59	110.12
2	8-I	467	PHE	N-CA-CB	5.08	117.59	110.12
2	8-I	711	PHE	N-CA-CB	5.08	117.59	110.12
1	1-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	1-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	1-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	2-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	2-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	2-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	3-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	3-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	3-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	4-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	4-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	4-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	5-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	5-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	5-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	6-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	6-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	6-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	7-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	7-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	7-K	401	THR	N-CA-C	-5.08	105.81	112.41
1	8-B	401	THR	N-CA-C	-5.08	105.80	112.41
1	8-E	73	LEU	N-CA-C	-5.08	107.03	113.23
1	8-K	401	THR	N-CA-C	-5.08	105.81	112.41
2	1-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	1-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	2-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	2-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	3-U	711	PHE	N-CA-CB	5.08	117.59	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	3-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	4-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	4-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	5-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	5-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	6-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	6-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	7-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	7-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	8-U	711	PHE	N-CA-CB	5.08	117.59	110.12
5	8-Y	319	LEU	N-CA-C	-5.08	105.18	111.33
2	1-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	1-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	1-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	1-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	2-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	2-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	2-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	2-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	3-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	3-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	3-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	3-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	4-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	4-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	4-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	4-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	5-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	5-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	5-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	5-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	6-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	6-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	6-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	6-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	7-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	7-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	7-O	412	ASP	N-CA-C	-5.08	105.75	111.28
4	7-X	431	LEU	N-CA-C	-5.08	105.74	111.28
2	8-C	455	VAL	CB-CA-C	-5.08	101.75	111.40
5	8-G	319	LEU	N-CA-C	-5.08	105.18	111.33
2	8-O	412	ASP	N-CA-C	-5.08	105.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-X	431	LEU	N-CA-C	-5.08	105.74	111.28
1	1-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	1-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	2-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	2-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	3-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	3-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	4-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	4-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	5-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	5-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	6-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	6-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	7-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	7-W	316	ALA	C-N-CA	-5.08	112.86	121.85
1	8-W	316	ALA	CA-C-N	-5.08	112.86	121.85
1	8-W	316	ALA	C-N-CA	-5.08	112.86	121.85
3	1-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	1-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	2-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	2-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	3-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	3-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	4-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	4-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	5-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	5-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	6-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	6-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	7-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	7-E	401	THR	N-CA-C	-5.08	105.81	112.41
3	8-D	800	PRO	N-CA-CB	5.08	106.03	103.19
1	8-E	401	THR	N-CA-C	-5.08	105.81	112.41
2	1-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	1-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	1-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	1-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	2-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	2-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	2-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	2-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	3-O	602	THR	N-CA-CB	5.07	119.06	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	3-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	3-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	3-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	4-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	4-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	4-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	4-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	5-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	5-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	5-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	5-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	6-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	6-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	6-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	6-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	7-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	7-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	7-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	7-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
2	8-O	602	THR	N-CA-CB	5.07	119.06	110.49
2	8-O	711	PHE	N-CA-CB	5.07	117.58	110.12
5	8-Y	324	ILE	CA-C-N	-5.07	110.83	121.64
5	8-Y	324	ILE	C-N-CA	-5.07	110.83	121.64
6	1-H	390	ASP	O-C-N	5.07	127.51	122.03
4	1-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	1-T	390	ASP	O-C-N	5.07	127.51	122.03
6	1-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	2-H	390	ASP	O-C-N	5.07	127.51	122.03
4	2-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	2-T	390	ASP	O-C-N	5.07	127.51	122.03
6	2-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	3-H	390	ASP	O-C-N	5.07	127.51	122.03
4	3-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	3-T	390	ASP	O-C-N	5.07	127.51	122.03
6	3-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	4-H	390	ASP	O-C-N	5.07	127.51	122.03
4	4-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	4-T	390	ASP	O-C-N	5.07	127.51	122.03
6	4-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	5-H	390	ASP	O-C-N	5.07	127.51	122.03
4	5-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	5-T	390	ASP	O-C-N	5.07	127.51	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	6-H	390	ASP	O-C-N	5.07	127.51	122.03
4	6-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	6-T	390	ASP	O-C-N	5.07	127.51	122.03
6	6-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	7-H	390	ASP	O-C-N	5.07	127.51	122.03
4	7-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	7-T	390	ASP	O-C-N	5.07	127.51	122.03
6	7-Z	377	ARG	O-C-N	5.07	129.33	122.59
6	8-H	390	ASP	O-C-N	5.07	127.51	122.03
4	8-R	431	LEU	N-CA-C	-5.07	105.75	111.28
6	8-T	390	ASP	O-C-N	5.07	127.51	122.03
6	8-Z	377	ARG	O-C-N	5.07	129.33	122.59
5	1-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	2-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	3-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	4-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	5-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	6-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	7-G	323	GLU	CA-C-O	5.07	125.80	119.97
5	8-G	323	GLU	CA-C-O	5.07	125.80	119.97
2	1-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	2-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	3-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	4-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	5-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	6-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	7-C	412	ASP	N-CA-C	-5.07	105.76	111.28
2	8-C	412	ASP	N-CA-C	-5.07	105.76	111.28
4	1-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	1-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	1-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	2-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	2-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	2-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	3-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	3-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	3-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	4-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	4-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	4-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	5-F	431	LEU	N-CA-C	-5.07	105.76	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	5-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	6-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	6-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	6-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	7-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	7-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	7-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	8-F	431	LEU	N-CA-C	-5.07	105.76	111.28
5	8-M	319	LEU	N-CA-C	-5.07	105.20	111.33
5	8-S	299	ASN	N-CA-CB	5.07	118.02	110.22
4	1-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	1-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	1-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	1-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	2-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	2-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	2-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	2-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	3-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	3-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	3-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	3-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	4-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	4-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	4-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	4-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	5-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	5-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	5-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	5-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	6-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	6-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	6-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	6-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	7-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	7-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	7-S	324	ILE	C-N-CA	-5.06	110.85	121.64
2	7-U	602	THR	N-CA-CB	5.06	119.05	110.49
4	8-R	401	TYR	CB-CA-C	-5.06	100.34	110.42
5	8-S	324	ILE	CA-C-N	-5.06	110.85	121.64
5	8-S	324	ILE	C-N-CA	-5.06	110.85	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8-U	602	THR	N-CA-CB	5.06	119.05	110.49
5	1-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	1-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	2-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	2-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	3-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	3-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	4-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	4-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	5-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	5-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	6-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	6-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	7-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	7-G	324	ILE	C-N-CA	-5.06	110.86	121.64
5	8-G	324	ILE	CA-C-N	-5.06	110.86	121.64
5	8-G	324	ILE	C-N-CA	-5.06	110.86	121.64
3	1-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	1-N	390	ASP	O-C-N	5.06	127.50	122.03
1	1-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	2-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	2-N	390	ASP	O-C-N	5.06	127.50	122.03
1	2-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	3-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	3-N	390	ASP	O-C-N	5.06	127.50	122.03
1	3-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	4-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	4-N	390	ASP	O-C-N	5.06	127.50	122.03
1	4-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	5-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	5-N	390	ASP	O-C-N	5.06	127.50	122.03
1	5-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	6-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	6-N	390	ASP	O-C-N	5.06	127.50	122.03
1	6-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	7-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	7-N	390	ASP	O-C-N	5.06	127.50	122.03
1	7-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	8-J	1516	LEU	N-CA-C	-5.06	105.77	111.28
6	8-N	390	ASP	O-C-N	5.06	127.50	122.03
1	8-W	401	THR	N-CA-C	-5.06	105.83	112.41
3	1-D	1516	LEU	N-CA-C	-5.06	105.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	2-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	2-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	3-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	3-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	4-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	4-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	5-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	5-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	6-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	6-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	7-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	7-G	299	ASN	N-CA-CB	5.06	118.01	110.22
3	8-D	1516	LEU	N-CA-C	-5.06	105.77	111.28
5	8-G	299	ASN	N-CA-CB	5.06	118.01	110.22
5	1-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	2-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	3-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	4-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	5-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	6-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	7-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	8-M	299	ASN	N-CA-CB	5.06	118.01	110.22
5	1-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	1-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	1-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	1-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	2-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	2-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	2-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	2-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	3-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	3-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	3-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	3-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	4-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	4-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	4-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	4-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	5-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	5-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	5-M	366	GLU	N-CA-CB	-5.05	102.44	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	5-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	6-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	6-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	6-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	6-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	7-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	7-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	7-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	7-Z	390	ASP	O-C-N	5.05	127.49	122.03
5	8-G	366	GLU	N-CA-CB	-5.05	102.44	110.28
4	8-L	401	TYR	CB-CA-C	-5.05	100.36	110.42
5	8-M	366	GLU	N-CA-CB	-5.05	102.44	110.28
6	8-Z	390	ASP	O-C-N	5.05	127.49	122.03
2	1-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	2-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	3-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	4-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	5-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	6-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	7-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	8-U	785	LEU	N-CA-C	-5.05	106.54	113.56
2	1-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	1-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	1-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	1-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	1-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	1-N	377	ARG	O-C-N	5.05	129.31	122.59
6	1-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	2-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	2-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	2-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	2-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	2-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	2-N	377	ARG	O-C-N	5.05	129.31	122.59
6	2-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	3-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	3-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	3-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	3-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	3-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	3-N	377	ARG	O-C-N	5.05	129.31	122.59
6	3-Z	394	ASP	O-C-N	5.05	128.80	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	4-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	4-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	4-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	4-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	4-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	4-N	377	ARG	O-C-N	5.05	129.31	122.59
6	4-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	5-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	5-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	5-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	5-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	5-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	5-N	377	ARG	O-C-N	5.05	129.31	122.59
6	5-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	6-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	6-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	6-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	6-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	6-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	6-N	377	ARG	O-C-N	5.05	129.31	122.59
6	6-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	7-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	7-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	7-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	7-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	7-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	7-N	377	ARG	O-C-N	5.05	129.31	122.59
6	7-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	8-C	602	THR	N-CA-CB	5.05	119.03	110.49
4	8-L	473	GLY	CA-C-N	-5.05	113.12	120.29
4	8-L	473	GLY	C-N-CA	-5.05	113.12	120.29
5	8-M	324	ILE	CA-C-N	-5.05	110.88	121.64
5	8-M	324	ILE	C-N-CA	-5.05	110.88	121.64
6	8-N	377	ARG	O-C-N	5.05	129.31	122.59
6	8-Z	394	ASP	O-C-N	5.05	128.80	122.23
2	1-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	1-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	1-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	1-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	1-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	1-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	2-I	309	GLN	CA-C-N	-5.05	113.93	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	2-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	2-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	2-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	2-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	3-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	3-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	3-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	3-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	3-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	3-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	4-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	4-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	4-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	4-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	4-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	4-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	5-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	5-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	5-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	5-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	5-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	5-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	6-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	6-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	6-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	6-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	6-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	6-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	7-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	7-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	7-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	7-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	7-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	7-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
2	8-I	309	GLN	CA-C-N	-5.05	113.93	122.67
2	8-I	309	GLN	C-N-CA	-5.05	113.93	122.67
2	8-U	309	GLN	CA-C-N	-5.05	113.94	122.67
2	8-U	309	GLN	C-N-CA	-5.05	113.94	122.67
5	8-Y	325	ALA	CA-C-N	-5.05	111.90	121.54
5	8-Y	325	ALA	C-N-CA	-5.05	111.90	121.54
5	1-G	325	ALA	CA-C-N	-5.05	111.90	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	1-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	1-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	2-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	2-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	2-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	3-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	3-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	3-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	4-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	4-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	4-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	5-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	5-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	5-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	6-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	6-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	6-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	7-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	7-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	7-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
5	8-G	325	ALA	CA-C-N	-5.05	111.90	121.54
5	8-G	325	ALA	C-N-CA	-5.05	111.90	121.54
4	8-X	401	TYR	CB-CA-C	-5.05	100.38	110.42
2	1-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	1-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	1-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	1-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	2-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	2-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	2-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	2-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	3-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	3-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	3-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	3-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	4-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	4-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	4-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	4-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	5-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	5-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	5-O	309	GLN	C-N-CA	-5.05	113.94	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	6-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	6-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	6-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	6-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	7-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	7-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	7-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	7-Q	401	THR	N-CA-C	-5.05	105.85	112.41
2	8-C	785	LEU	N-CA-C	-5.05	106.55	113.56
2	8-O	309	GLN	CA-C-N	-5.05	113.94	122.67
2	8-O	309	GLN	C-N-CA	-5.05	113.94	122.67
1	8-Q	401	THR	N-CA-C	-5.05	105.85	112.41
3	1-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	2-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	3-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	4-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	5-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	6-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	7-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
3	8-P	320	TRP	CB-CA-C	-5.04	103.20	111.68
4	1-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	1-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	1-V	445	LEU	N-CA-C	-5.04	105.67	111.07
4	2-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	2-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	2-V	445	LEU	N-CA-C	-5.04	105.67	111.07
4	3-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	3-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	3-V	445	LEU	N-CA-C	-5.04	105.67	111.07
4	4-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	4-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	4-V	445	LEU	N-CA-C	-5.04	105.67	111.07
4	5-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	5-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	5-V	445	LEU	N-CA-C	-5.04	105.67	111.07
4	6-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	6-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	6-V	445	LEU	N-CA-C	-5.04	105.67	111.07
4	7-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	7-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	7-V	445	LEU	N-CA-C	-5.04	105.67	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8-L	431	LEU	N-CA-C	-5.04	105.78	111.28
3	8-P	1516	LEU	N-CA-C	-5.04	105.78	111.28
3	8-V	445	LEU	N-CA-C	-5.04	105.67	111.07
2	1-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	1-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	1-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	1-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	1-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	1-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	2-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	2-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	2-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	2-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	2-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	2-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	3-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	3-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	3-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	3-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	3-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	3-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	4-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	4-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	4-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	4-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	4-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	4-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	5-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	5-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	5-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	5-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	5-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	5-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	6-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	6-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	6-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	6-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	6-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	6-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	7-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	7-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	7-F	401	TYR	CB-CA-C	-5.04	100.39	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	7-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	7-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	7-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	8-C	309	GLN	CA-C-N	-5.04	113.95	122.67
2	8-C	309	GLN	C-N-CA	-5.04	113.95	122.67
4	8-F	401	TYR	CB-CA-C	-5.04	100.39	110.42
3	8-J	320	TRP	CB-CA-C	-5.04	103.21	111.68
5	8-M	325	ALA	CA-C-N	-5.04	111.91	121.54
5	8-M	325	ALA	C-N-CA	-5.04	111.91	121.54
2	1-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	2-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	3-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	4-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	5-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	6-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	7-O	785	LEU	N-CA-C	-5.04	106.56	113.56
2	8-O	785	LEU	N-CA-C	-5.04	106.56	113.56
3	1-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	1-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	2-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	2-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	3-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	3-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	4-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	4-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	5-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	5-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	6-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	6-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	7-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	7-T	433	THR	N-CA-CB	5.04	117.52	110.12
3	8-D	1458	VAL	CB-CA-C	-5.04	105.52	111.97
6	8-T	433	THR	N-CA-CB	5.04	117.52	110.12
5	1-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	1-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	1-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	1-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	1-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	1-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	2-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	2-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	2-V	320	TRP	CB-CA-C	-5.04	103.22	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	2-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	2-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	3-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	3-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	3-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	3-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	3-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	3-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	4-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	4-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	4-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	4-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	4-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	4-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	5-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	5-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	5-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	5-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	5-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	5-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	6-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	6-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	6-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	6-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	6-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	6-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	7-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	7-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	7-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	7-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	7-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	7-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
5	8-S	325	ALA	CA-C-N	-5.04	111.92	121.54
5	8-S	325	ALA	C-N-CA	-5.04	111.92	121.54
3	8-V	320	TRP	CB-CA-C	-5.04	103.22	111.68
4	8-X	473	GLY	CA-C-N	-5.04	113.14	120.29
4	8-X	473	GLY	C-N-CA	-5.04	113.14	120.29
5	8-Y	366	GLU	N-CA-CB	-5.04	102.47	110.28
3	1-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	1-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	2-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	3-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	3-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	4-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	4-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	5-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	5-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	6-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	6-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	7-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	7-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	8-J	1458	VAL	CB-CA-C	-5.03	105.53	111.97
3	8-V	1458	VAL	CB-CA-C	-5.03	105.53	111.97
5	1-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	1-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	2-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	2-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	3-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	3-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	4-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	4-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	5-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	5-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	6-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	6-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	7-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	7-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
5	8-M	357	LEU	CB-CA-C	-5.03	102.44	110.79
3	8-V	1516	LEU	N-CA-C	-5.03	105.80	111.28
6	1-H	394	ASP	O-C-N	5.03	128.77	122.23
6	2-H	394	ASP	O-C-N	5.03	128.77	122.23
6	3-H	394	ASP	O-C-N	5.03	128.77	122.23
6	4-H	394	ASP	O-C-N	5.03	128.77	122.23
6	5-H	394	ASP	O-C-N	5.03	128.77	122.23
6	6-H	394	ASP	O-C-N	5.03	128.77	122.23
6	7-H	394	ASP	O-C-N	5.03	128.77	122.23
6	8-H	394	ASP	O-C-N	5.03	128.77	122.23
2	1-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	1-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	1-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	1-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	1-Z	433	THR	N-CA-CB	5.03	117.51	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	2-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	2-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	2-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	2-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	2-Z	433	THR	N-CA-CB	5.03	117.51	110.12
2	3-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	3-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	3-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	3-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	3-Z	433	THR	N-CA-CB	5.03	117.51	110.12
2	4-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	4-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	4-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	4-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	4-Z	433	THR	N-CA-CB	5.03	117.51	110.12
2	5-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	5-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	5-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	5-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	5-Z	433	THR	N-CA-CB	5.03	117.51	110.12
2	6-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	6-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	6-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	6-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	6-Z	433	THR	N-CA-CB	5.03	117.51	110.12
2	7-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	7-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	7-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	7-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	7-Z	433	THR	N-CA-CB	5.03	117.51	110.12
2	8-I	785	LEU	N-CA-C	-5.03	106.57	113.56
6	8-N	413	LEU	CB-CA-C	-5.03	102.96	110.90
5	8-Y	348	ILE	O-C-N	-5.03	116.65	121.83
6	8-Z	413	LEU	CB-CA-C	-5.03	102.96	110.90
6	8-Z	433	THR	N-CA-CB	5.03	117.51	110.12
5	1-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	1-T	356	THR	CA-C-O	5.03	125.78	120.10
5	2-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	2-T	356	THR	CA-C-O	5.03	125.78	120.10
5	3-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	3-T	356	THR	CA-C-O	5.03	125.78	120.10
5	4-M	380	ILE	CA-C-O	-5.03	115.85	121.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-T	356	THR	CA-C-O	5.03	125.78	120.10
5	5-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	5-T	356	THR	CA-C-O	5.03	125.78	120.10
5	6-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	6-T	356	THR	CA-C-O	5.03	125.78	120.10
5	7-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	7-T	356	THR	CA-C-O	5.03	125.78	120.10
5	8-M	380	ILE	CA-C-O	-5.03	115.85	121.23
6	8-T	356	THR	CA-C-O	5.03	125.78	120.10
5	1-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	1-T	394	ASP	O-C-N	5.02	128.76	122.23
1	1-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	2-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	2-T	394	ASP	O-C-N	5.02	128.76	122.23
1	2-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	3-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	3-T	394	ASP	O-C-N	5.02	128.76	122.23
1	3-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	4-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	4-T	394	ASP	O-C-N	5.02	128.76	122.23
1	4-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	5-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	5-T	394	ASP	O-C-N	5.02	128.76	122.23
1	5-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	6-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	6-T	394	ASP	O-C-N	5.02	128.76	122.23
1	6-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	7-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	7-T	394	ASP	O-C-N	5.02	128.76	122.23
1	7-W	1192	PHE	N-CA-C	5.02	117.72	111.24
5	8-G	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	8-T	394	ASP	O-C-N	5.02	128.76	122.23
1	8-W	1192	PHE	N-CA-C	5.02	117.72	111.24
3	1-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	2-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	3-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	4-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	5-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	6-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	7-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	8-P	800	PRO	N-CA-CB	5.02	106.00	103.19
3	1-D	320	TRP	CB-CA-C	-5.02	103.25	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	2-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	3-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	4-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	5-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	6-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	7-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	8-D	320	TRP	CB-CA-C	-5.02	103.25	111.68
3	1-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	1-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	1-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	1-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	2-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	2-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	2-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	2-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	3-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	3-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	3-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	3-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	4-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	4-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	4-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	4-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	5-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	5-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	5-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	5-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	6-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	6-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	6-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	6-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	7-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	7-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	7-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	7-Z	362	ASP	CA-C-O	5.02	125.77	120.10
3	8-P	445	LEU	N-CA-C	-5.02	105.70	111.07
4	8-R	473	GLY	CA-C-N	-5.02	113.16	120.29
4	8-R	473	GLY	C-N-CA	-5.02	113.16	120.29
6	8-Z	362	ASP	CA-C-O	5.02	125.77	120.10
5	1-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	2-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	3-S	366	GLU	N-CA-CB	-5.02	102.50	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	4-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	5-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	6-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	7-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	8-S	366	GLU	N-CA-CB	-5.02	102.50	110.28
5	1-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	2-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	3-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	4-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	5-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	6-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	7-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
5	8-Y	357	LEU	CB-CA-C	-5.02	102.46	110.79
3	1-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	1-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	1-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	1-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	2-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	2-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	2-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	2-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	3-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	3-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	3-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	3-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	4-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	4-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	4-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	4-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	5-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	5-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	5-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	5-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	6-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	6-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	6-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	6-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	7-D	242	GLY	CA-C-N	5.01	127.93	120.31
3	7-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	7-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	7-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
3	8-D	242	GLY	CA-C-N	5.01	127.93	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	8-D	242	GLY	C-N-CA	5.01	127.93	120.31
3	8-P	1458	VAL	CB-CA-C	-5.01	105.55	111.97
6	8-Z	490	GLN	N-CA-C	-5.01	106.09	113.61
1	1-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	2-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	3-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	4-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	5-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	6-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	7-E	1192	PHE	N-CA-C	5.01	117.71	111.24
1	8-E	1192	PHE	N-CA-C	5.01	117.71	111.24
6	1-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	1-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	2-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	2-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	3-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	3-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	4-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	4-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	5-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	5-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	6-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	6-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	7-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	7-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
6	8-N	377	ARG	N-CA-C	5.01	121.47	110.80
5	8-Y	380	ILE	CA-C-O	-5.01	115.87	121.23
2	1-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	2-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	3-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	4-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	5-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	6-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	7-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
2	8-U	731	VAL	CB-CA-C	-5.01	105.46	112.02
5	1-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	1-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	2-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	2-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	3-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	3-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	4-S	357	LEU	CB-CA-C	-5.01	102.48	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	5-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	5-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	6-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	6-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	7-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	7-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	8-S	357	LEU	CB-CA-C	-5.01	102.48	110.79
6	8-Z	377	ARG	N-CA-C	5.01	121.46	110.80
5	1-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	2-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	3-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	4-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	5-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	6-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	7-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
5	8-Y	399	LEU	N-CA-C	-5.00	105.83	111.28
2	1-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	1-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	1-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	2-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	2-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	2-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	3-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	3-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	3-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	4-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	4-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	4-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	5-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	5-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	5-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	6-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	6-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	6-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	7-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	7-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	7-N	490	GLN	N-CA-C	-5.00	106.11	113.61
2	8-C	364	SER	N-CA-C	-5.00	103.41	110.31
6	8-H	362	ASP	CA-C-O	5.00	125.75	120.10
6	8-N	490	GLN	N-CA-C	-5.00	106.11	113.61
6	1-N	394	ASP	O-C-N	5.00	128.73	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	1-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	1-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	1-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	2-N	394	ASP	O-C-N	5.00	128.73	122.23
6	2-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	2-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	2-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	3-N	394	ASP	O-C-N	5.00	128.73	122.23
6	3-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	3-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	3-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	4-N	394	ASP	O-C-N	5.00	128.73	122.23
6	4-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	4-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	4-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	5-N	394	ASP	O-C-N	5.00	128.73	122.23
6	5-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	5-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	5-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	6-N	394	ASP	O-C-N	5.00	128.73	122.23
6	6-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	6-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	6-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	7-N	394	ASP	O-C-N	5.00	128.73	122.23
6	7-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	7-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	7-Z	356	THR	CA-C-O	5.00	125.75	120.10
6	8-N	394	ASP	O-C-N	5.00	128.73	122.23
6	8-T	377	ARG	N-CA-C	5.00	121.45	110.80
6	8-T	490	GLN	N-CA-C	-5.00	106.11	113.61
6	8-Z	356	THR	CA-C-O	5.00	125.75	120.10

All (716) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	1-C	11	GLN	CA
4	1-F	200	THR	CA
4	1-F	210	VAL	CA
4	1-F	211	GLU	CA
4	1-F	305	ASP	CA
4	1-F	341	ASP	CA
4	1-F	423	ALA	CA

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Mol	Chain	Res	Type	Atom
4	1-F	454	TYR	CA
4	1-F	459	LEU	CA
4	1-F	460	LEU	CA
4	1-F	486	GLU	CA
5	1-G	327	ARG	CA
5	1-G	330	LYS	CA
5	1-G	338	GLU	CA
5	1-G	339	TYR	CA
5	1-G	340	ALA	CA
5	1-G	341	ALA	CA
5	1-G	344	ASP	CA
5	1-G	373	THR	CA
5	1-G	405	SER	CA
6	1-H	352	LEU	CA
6	1-H	356	THR	CA
6	1-H	387	LYS	CA
6	1-H	446	ARG	CA
6	1-H	494	LEU	CA
2	1-I	11	GLN	CA
4	1-L	200	THR	CA
4	1-L	210	VAL	CA
4	1-L	211	GLU	CA
4	1-L	305	ASP	CA
4	1-L	341	ASP	CA
4	1-L	423	ALA	CA
4	1-L	454	TYR	CA
4	1-L	459	LEU	CA
4	1-L	460	LEU	CA
4	1-L	486	GLU	CA
5	1-M	327	ARG	CA
5	1-M	330	LYS	CA
5	1-M	338	GLU	CA
5	1-M	339	TYR	CA
5	1-M	340	ALA	CA
5	1-M	341	ALA	CA
5	1-M	344	ASP	CA
5	1-M	373	THR	CA
5	1-M	405	SER	CA
6	1-N	352	LEU	CA
6	1-N	356	THR	CA
6	1-N	387	LYS	CA
6	1-N	446	ARG	CA

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Mol	Chain	Res	Type	Atom
6	1-N	494	LEU	CA
2	1-O	11	GLN	CA
4	1-R	200	THR	CA
4	1-R	210	VAL	CA
4	1-R	211	GLU	CA
4	1-R	305	ASP	CA
4	1-R	341	ASP	CA
4	1-R	423	ALA	CA
4	1-R	454	TYR	CA
4	1-R	459	LEU	CA
4	1-R	460	LEU	CA
4	1-R	486	GLU	CA
5	1-S	327	ARG	CA
5	1-S	330	LYS	CA
5	1-S	338	GLU	CA
5	1-S	339	TYR	CA
5	1-S	340	ALA	CA
5	1-S	341	ALA	CA
5	1-S	344	ASP	CA
5	1-S	373	THR	CA
5	1-S	405	SER	CA
6	1-T	352	LEU	CA
6	1-T	356	THR	CA
6	1-T	387	LYS	CA
6	1-T	446	ARG	CA
6	1-T	494	LEU	CA
2	1-U	11	GLN	CA
4	1-X	200	THR	CA
4	1-X	210	VAL	CA
4	1-X	211	GLU	CA
4	1-X	305	ASP	CA
4	1-X	341	ASP	CA
4	1-X	423	ALA	CA
4	1-X	454	TYR	CA
4	1-X	459	LEU	CA
4	1-X	460	LEU	CA
4	1-X	486	GLU	CA
5	1-Y	327	ARG	CA
5	1-Y	330	LYS	CA
5	1-Y	338	GLU	CA
5	1-Y	339	TYR	CA
5	1-Y	340	ALA	CA

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Mol	Chain	Res	Type	Atom
5	1-Y	341	ALA	CA
5	1-Y	344	ASP	CA
5	1-Y	373	THR	CA
5	1-Y	405	SER	CA
6	1-Z	352	LEU	CA
6	1-Z	356	THR	CA
6	1-Z	387	LYS	CA
6	1-Z	446	ARG	CA
6	1-Z	494	LEU	CA
2	2-C	11	GLN	CA
4	2-F	305	ASP	CA
4	2-F	341	ASP	CA
4	2-F	423	ALA	CA
4	2-F	454	TYR	CA
4	2-F	459	LEU	CA
4	2-F	460	LEU	CA
4	2-F	486	GLU	CA
5	2-G	327	ARG	CA
5	2-G	330	LYS	CA
5	2-G	338	GLU	CA
5	2-G	339	TYR	CA
5	2-G	340	ALA	CA
5	2-G	341	ALA	CA
5	2-G	344	ASP	CA
5	2-G	373	THR	CA
5	2-G	405	SER	CA
6	2-H	352	LEU	CA
6	2-H	356	THR	CA
6	2-H	387	LYS	CA
6	2-H	446	ARG	CA
6	2-H	494	LEU	CA
2	2-I	11	GLN	CA
4	2-L	305	ASP	CA
4	2-L	341	ASP	CA
4	2-L	423	ALA	CA
4	2-L	454	TYR	CA
4	2-L	459	LEU	CA
4	2-L	460	LEU	CA
4	2-L	486	GLU	CA
5	2-M	327	ARG	CA
5	2-M	330	LYS	CA
5	2-M	338	GLU	CA

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Mol	Chain	Res	Type	Atom
5	2-M	339	TYR	CA
5	2-M	340	ALA	CA
5	2-M	341	ALA	CA
5	2-M	344	ASP	CA
5	2-M	373	THR	CA
5	2-M	405	SER	CA
6	2-N	352	LEU	CA
6	2-N	356	THR	CA
6	2-N	387	LYS	CA
6	2-N	446	ARG	CA
6	2-N	494	LEU	CA
2	2-O	11	GLN	CA
4	2-R	305	ASP	CA
4	2-R	341	ASP	CA
4	2-R	423	ALA	CA
4	2-R	454	TYR	CA
4	2-R	459	LEU	CA
4	2-R	460	LEU	CA
4	2-R	486	GLU	CA
5	2-S	327	ARG	CA
5	2-S	330	LYS	CA
5	2-S	338	GLU	CA
5	2-S	339	TYR	CA
5	2-S	340	ALA	CA
5	2-S	341	ALA	CA
5	2-S	344	ASP	CA
5	2-S	373	THR	CA
5	2-S	405	SER	CA
6	2-T	352	LEU	CA
6	2-T	356	THR	CA
6	2-T	387	LYS	CA
6	2-T	446	ARG	CA
6	2-T	494	LEU	CA
2	2-U	11	GLN	CA
4	2-X	305	ASP	CA
4	2-X	341	ASP	CA
4	2-X	423	ALA	CA
4	2-X	454	TYR	CA
4	2-X	459	LEU	CA
4	2-X	460	LEU	CA
4	2-X	486	GLU	CA
5	2-Y	327	ARG	CA

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Mol	Chain	Res	Type	Atom
5	2-Y	330	LYS	CA
5	2-Y	338	GLU	CA
5	2-Y	339	TYR	CA
5	2-Y	340	ALA	CA
5	2-Y	341	ALA	CA
5	2-Y	344	ASP	CA
5	2-Y	373	THR	CA
5	2-Y	405	SER	CA
6	2-Z	352	LEU	CA
6	2-Z	356	THR	CA
6	2-Z	387	LYS	CA
6	2-Z	446	ARG	CA
6	2-Z	494	LEU	CA
2	3-C	11	GLN	CA
4	3-F	305	ASP	CA
4	3-F	341	ASP	CA
4	3-F	423	ALA	CA
4	3-F	454	TYR	CA
4	3-F	459	LEU	CA
4	3-F	460	LEU	CA
4	3-F	486	GLU	CA
5	3-G	327	ARG	CA
5	3-G	330	LYS	CA
5	3-G	338	GLU	CA
5	3-G	339	TYR	CA
5	3-G	340	ALA	CA
5	3-G	341	ALA	CA
5	3-G	344	ASP	CA
5	3-G	373	THR	CA
5	3-G	405	SER	CA
6	3-H	352	LEU	CA
6	3-H	356	THR	CA
6	3-H	387	LYS	CA
6	3-H	446	ARG	CA
6	3-H	494	LEU	CA
2	3-I	11	GLN	CA
4	3-L	305	ASP	CA
4	3-L	341	ASP	CA
4	3-L	423	ALA	CA
4	3-L	454	TYR	CA
4	3-L	459	LEU	CA
4	3-L	460	LEU	CA

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Mol	Chain	Res	Type	Atom
4	3-L	486	GLU	CA
5	3-M	327	ARG	CA
5	3-M	330	LYS	CA
5	3-M	338	GLU	CA
5	3-M	339	TYR	CA
5	3-M	340	ALA	CA
5	3-M	341	ALA	CA
5	3-M	344	ASP	CA
5	3-M	373	THR	CA
5	3-M	405	SER	CA
6	3-N	352	LEU	CA
6	3-N	356	THR	CA
6	3-N	387	LYS	CA
6	3-N	446	ARG	CA
6	3-N	494	LEU	CA
2	3-O	11	GLN	CA
4	3-R	305	ASP	CA
4	3-R	341	ASP	CA
4	3-R	423	ALA	CA
4	3-R	454	TYR	CA
4	3-R	459	LEU	CA
4	3-R	460	LEU	CA
4	3-R	486	GLU	CA
5	3-S	327	ARG	CA
5	3-S	330	LYS	CA
5	3-S	338	GLU	CA
5	3-S	339	TYR	CA
5	3-S	340	ALA	CA
5	3-S	341	ALA	CA
5	3-S	344	ASP	CA
5	3-S	373	THR	CA
5	3-S	405	SER	CA
6	3-T	352	LEU	CA
6	3-T	356	THR	CA
6	3-T	387	LYS	CA
6	3-T	446	ARG	CA
6	3-T	494	LEU	CA
2	3-U	11	GLN	CA
4	3-X	305	ASP	CA
4	3-X	341	ASP	CA
4	3-X	423	ALA	CA
4	3-X	454	TYR	CA

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Mol	Chain	Res	Type	Atom
4	3-X	459	LEU	CA
4	3-X	460	LEU	CA
4	3-X	486	GLU	CA
5	3-Y	327	ARG	CA
5	3-Y	330	LYS	CA
5	3-Y	338	GLU	CA
5	3-Y	339	TYR	CA
5	3-Y	340	ALA	CA
5	3-Y	341	ALA	CA
5	3-Y	344	ASP	CA
5	3-Y	373	THR	CA
5	3-Y	405	SER	CA
6	3-Z	352	LEU	CA
6	3-Z	356	THR	CA
6	3-Z	387	LYS	CA
6	3-Z	446	ARG	CA
6	3-Z	494	LEU	CA
2	4-C	11	GLN	CA
4	4-F	305	ASP	CA
4	4-F	341	ASP	CA
4	4-F	423	ALA	CA
4	4-F	454	TYR	CA
4	4-F	459	LEU	CA
4	4-F	460	LEU	CA
4	4-F	486	GLU	CA
5	4-G	327	ARG	CA
5	4-G	330	LYS	CA
5	4-G	338	GLU	CA
5	4-G	339	TYR	CA
5	4-G	340	ALA	CA
5	4-G	341	ALA	CA
5	4-G	344	ASP	CA
5	4-G	373	THR	CA
5	4-G	405	SER	CA
6	4-H	352	LEU	CA
6	4-H	356	THR	CA
6	4-H	387	LYS	CA
6	4-H	446	ARG	CA
6	4-H	494	LEU	CA
2	4-I	11	GLN	CA
4	4-L	305	ASP	CA
4	4-L	341	ASP	CA

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Mol	Chain	Res	Type	Atom
4	4-L	423	ALA	CA
4	4-L	454	TYR	CA
4	4-L	459	LEU	CA
4	4-L	460	LEU	CA
4	4-L	486	GLU	CA
5	4-M	327	ARG	CA
5	4-M	330	LYS	CA
5	4-M	338	GLU	CA
5	4-M	339	TYR	CA
5	4-M	340	ALA	CA
5	4-M	341	ALA	CA
5	4-M	344	ASP	CA
5	4-M	373	THR	CA
5	4-M	405	SER	CA
6	4-N	352	LEU	CA
6	4-N	356	THR	CA
6	4-N	387	LYS	CA
6	4-N	446	ARG	CA
6	4-N	494	LEU	CA
2	4-O	11	GLN	CA
4	4-R	305	ASP	CA
4	4-R	341	ASP	CA
4	4-R	423	ALA	CA
4	4-R	454	TYR	CA
4	4-R	459	LEU	CA
4	4-R	460	LEU	CA
4	4-R	486	GLU	CA
5	4-S	327	ARG	CA
5	4-S	330	LYS	CA
5	4-S	338	GLU	CA
5	4-S	339	TYR	CA
5	4-S	340	ALA	CA
5	4-S	341	ALA	CA
5	4-S	344	ASP	CA
5	4-S	373	THR	CA
5	4-S	405	SER	CA
6	4-T	352	LEU	CA
6	4-T	356	THR	CA
6	4-T	387	LYS	CA
6	4-T	446	ARG	CA
6	4-T	494	LEU	CA
2	4-U	11	GLN	CA

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Mol	Chain	Res	Type	Atom
4	4-X	305	ASP	CA
4	4-X	341	ASP	CA
4	4-X	423	ALA	CA
4	4-X	454	TYR	CA
4	4-X	459	LEU	CA
4	4-X	460	LEU	CA
4	4-X	486	GLU	CA
5	4-Y	327	ARG	CA
5	4-Y	330	LYS	CA
5	4-Y	338	GLU	CA
5	4-Y	339	TYR	CA
5	4-Y	340	ALA	CA
5	4-Y	341	ALA	CA
5	4-Y	344	ASP	CA
5	4-Y	373	THR	CA
5	4-Y	405	SER	CA
6	4-Z	352	LEU	CA
6	4-Z	356	THR	CA
6	4-Z	387	LYS	CA
6	4-Z	446	ARG	CA
6	4-Z	494	LEU	CA
2	5-C	11	GLN	CA
4	5-F	305	ASP	CA
4	5-F	341	ASP	CA
4	5-F	423	ALA	CA
4	5-F	454	TYR	CA
4	5-F	459	LEU	CA
4	5-F	460	LEU	CA
4	5-F	486	GLU	CA
5	5-G	327	ARG	CA
5	5-G	330	LYS	CA
5	5-G	338	GLU	CA
5	5-G	339	TYR	CA
5	5-G	340	ALA	CA
5	5-G	341	ALA	CA
5	5-G	344	ASP	CA
5	5-G	373	THR	CA
5	5-G	405	SER	CA
6	5-H	352	LEU	CA
6	5-H	356	THR	CA
6	5-H	387	LYS	CA
6	5-H	446	ARG	CA

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Mol	Chain	Res	Type	Atom
6	5-H	494	LEU	CA
2	5-I	11	GLN	CA
4	5-L	305	ASP	CA
4	5-L	341	ASP	CA
4	5-L	423	ALA	CA
4	5-L	454	TYR	CA
4	5-L	459	LEU	CA
4	5-L	460	LEU	CA
4	5-L	486	GLU	CA
5	5-M	327	ARG	CA
5	5-M	330	LYS	CA
5	5-M	338	GLU	CA
5	5-M	339	TYR	CA
5	5-M	340	ALA	CA
5	5-M	341	ALA	CA
5	5-M	344	ASP	CA
5	5-M	373	THR	CA
5	5-M	405	SER	CA
6	5-N	352	LEU	CA
6	5-N	356	THR	CA
6	5-N	387	LYS	CA
6	5-N	446	ARG	CA
6	5-N	494	LEU	CA
2	5-O	11	GLN	CA
4	5-R	305	ASP	CA
4	5-R	341	ASP	CA
4	5-R	423	ALA	CA
4	5-R	454	TYR	CA
4	5-R	459	LEU	CA
4	5-R	460	LEU	CA
4	5-R	486	GLU	CA
5	5-S	327	ARG	CA
5	5-S	330	LYS	CA
5	5-S	338	GLU	CA
5	5-S	339	TYR	CA
5	5-S	340	ALA	CA
5	5-S	341	ALA	CA
5	5-S	344	ASP	CA
5	5-S	373	THR	CA
5	5-S	405	SER	CA
6	5-T	352	LEU	CA
6	5-T	356	THR	CA

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Mol	Chain	Res	Type	Atom
6	5-T	387	LYS	CA
6	5-T	446	ARG	CA
6	5-T	494	LEU	CA
2	5-U	11	GLN	CA
4	5-X	305	ASP	CA
4	5-X	341	ASP	CA
4	5-X	423	ALA	CA
4	5-X	454	TYR	CA
4	5-X	459	LEU	CA
4	5-X	460	LEU	CA
4	5-X	486	GLU	CA
5	5-Y	327	ARG	CA
5	5-Y	330	LYS	CA
5	5-Y	338	GLU	CA
5	5-Y	339	TYR	CA
5	5-Y	340	ALA	CA
5	5-Y	341	ALA	CA
5	5-Y	344	ASP	CA
5	5-Y	373	THR	CA
5	5-Y	405	SER	CA
6	5-Z	352	LEU	CA
6	5-Z	356	THR	CA
6	5-Z	387	LYS	CA
6	5-Z	446	ARG	CA
6	5-Z	494	LEU	CA
2	6-C	11	GLN	CA
4	6-F	305	ASP	CA
4	6-F	341	ASP	CA
4	6-F	423	ALA	CA
4	6-F	454	TYR	CA
4	6-F	459	LEU	CA
4	6-F	460	LEU	CA
4	6-F	486	GLU	CA
5	6-G	327	ARG	CA
5	6-G	330	LYS	CA
5	6-G	338	GLU	CA
5	6-G	339	TYR	CA
5	6-G	340	ALA	CA
5	6-G	341	ALA	CA
5	6-G	344	ASP	CA
5	6-G	373	THR	CA
5	6-G	405	SER	CA

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Mol	Chain	Res	Type	Atom
6	6-H	352	LEU	CA
6	6-H	356	THR	CA
6	6-H	387	LYS	CA
6	6-H	446	ARG	CA
6	6-H	494	LEU	CA
2	6-I	11	GLN	CA
4	6-L	305	ASP	CA
4	6-L	341	ASP	CA
4	6-L	423	ALA	CA
4	6-L	454	TYR	CA
4	6-L	459	LEU	CA
4	6-L	460	LEU	CA
4	6-L	486	GLU	CA
5	6-M	327	ARG	CA
5	6-M	330	LYS	CA
5	6-M	338	GLU	CA
5	6-M	339	TYR	CA
5	6-M	340	ALA	CA
5	6-M	341	ALA	CA
5	6-M	344	ASP	CA
5	6-M	373	THR	CA
5	6-M	405	SER	CA
6	6-N	352	LEU	CA
6	6-N	356	THR	CA
6	6-N	387	LYS	CA
6	6-N	446	ARG	CA
6	6-N	494	LEU	CA
2	6-O	11	GLN	CA
4	6-R	305	ASP	CA
4	6-R	341	ASP	CA
4	6-R	423	ALA	CA
4	6-R	454	TYR	CA
4	6-R	459	LEU	CA
4	6-R	460	LEU	CA
4	6-R	486	GLU	CA
5	6-S	327	ARG	CA
5	6-S	330	LYS	CA
5	6-S	338	GLU	CA
5	6-S	339	TYR	CA
5	6-S	340	ALA	CA
5	6-S	341	ALA	CA
5	6-S	344	ASP	CA

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Mol	Chain	Res	Type	Atom
5	6-S	373	THR	CA
5	6-S	405	SER	CA
6	6-T	352	LEU	CA
6	6-T	356	THR	CA
6	6-T	387	LYS	CA
6	6-T	446	ARG	CA
6	6-T	494	LEU	CA
2	6-U	11	GLN	CA
4	6-X	305	ASP	CA
4	6-X	341	ASP	CA
4	6-X	423	ALA	CA
4	6-X	454	TYR	CA
4	6-X	459	LEU	CA
4	6-X	460	LEU	CA
4	6-X	486	GLU	CA
5	6-Y	327	ARG	CA
5	6-Y	330	LYS	CA
5	6-Y	338	GLU	CA
5	6-Y	339	TYR	CA
5	6-Y	340	ALA	CA
5	6-Y	341	ALA	CA
5	6-Y	344	ASP	CA
5	6-Y	373	THR	CA
5	6-Y	405	SER	CA
6	6-Z	352	LEU	CA
6	6-Z	356	THR	CA
6	6-Z	387	LYS	CA
6	6-Z	446	ARG	CA
6	6-Z	494	LEU	CA
2	7-C	11	GLN	CA
4	7-F	305	ASP	CA
4	7-F	341	ASP	CA
4	7-F	423	ALA	CA
4	7-F	454	TYR	CA
4	7-F	459	LEU	CA
4	7-F	460	LEU	CA
4	7-F	486	GLU	CA
5	7-G	327	ARG	CA
5	7-G	330	LYS	CA
5	7-G	338	GLU	CA
5	7-G	339	TYR	CA
5	7-G	340	ALA	CA

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Mol	Chain	Res	Type	Atom
5	7-G	341	ALA	CA
5	7-G	344	ASP	CA
5	7-G	373	THR	CA
5	7-G	405	SER	CA
6	7-H	352	LEU	CA
6	7-H	356	THR	CA
6	7-H	387	LYS	CA
6	7-H	446	ARG	CA
6	7-H	494	LEU	CA
2	7-I	11	GLN	CA
4	7-L	305	ASP	CA
4	7-L	341	ASP	CA
4	7-L	423	ALA	CA
4	7-L	454	TYR	CA
4	7-L	459	LEU	CA
4	7-L	460	LEU	CA
4	7-L	486	GLU	CA
5	7-M	327	ARG	CA
5	7-M	330	LYS	CA
5	7-M	338	GLU	CA
5	7-M	339	TYR	CA
5	7-M	340	ALA	CA
5	7-M	341	ALA	CA
5	7-M	344	ASP	CA
5	7-M	373	THR	CA
5	7-M	405	SER	CA
6	7-N	352	LEU	CA
6	7-N	356	THR	CA
6	7-N	387	LYS	CA
6	7-N	446	ARG	CA
6	7-N	494	LEU	CA
2	7-O	11	GLN	CA
4	7-R	305	ASP	CA
4	7-R	341	ASP	CA
4	7-R	423	ALA	CA
4	7-R	454	TYR	CA
4	7-R	459	LEU	CA
4	7-R	460	LEU	CA
4	7-R	486	GLU	CA
5	7-S	327	ARG	CA
5	7-S	330	LYS	CA
5	7-S	338	GLU	CA

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Mol	Chain	Res	Type	Atom
5	7-S	339	TYR	CA
5	7-S	340	ALA	CA
5	7-S	341	ALA	CA
5	7-S	344	ASP	CA
5	7-S	373	THR	CA
5	7-S	405	SER	CA
6	7-T	352	LEU	CA
6	7-T	356	THR	CA
6	7-T	387	LYS	CA
6	7-T	446	ARG	CA
6	7-T	494	LEU	CA
2	7-U	11	GLN	CA
4	7-X	305	ASP	CA
4	7-X	341	ASP	CA
4	7-X	423	ALA	CA
4	7-X	454	TYR	CA
4	7-X	459	LEU	CA
4	7-X	460	LEU	CA
4	7-X	486	GLU	CA
5	7-Y	327	ARG	CA
5	7-Y	330	LYS	CA
5	7-Y	338	GLU	CA
5	7-Y	339	TYR	CA
5	7-Y	340	ALA	CA
5	7-Y	341	ALA	CA
5	7-Y	344	ASP	CA
5	7-Y	373	THR	CA
5	7-Y	405	SER	CA
6	7-Z	352	LEU	CA
6	7-Z	356	THR	CA
6	7-Z	387	LYS	CA
6	7-Z	446	ARG	CA
6	7-Z	494	LEU	CA
2	8-C	11	GLN	CA
4	8-F	305	ASP	CA
4	8-F	341	ASP	CA
4	8-F	423	ALA	CA
4	8-F	454	TYR	CA
4	8-F	459	LEU	CA
4	8-F	460	LEU	CA
4	8-F	486	GLU	CA
5	8-G	327	ARG	CA

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Mol	Chain	Res	Type	Atom
5	8-G	330	LYS	CA
5	8-G	338	GLU	CA
5	8-G	339	TYR	CA
5	8-G	340	ALA	CA
5	8-G	341	ALA	CA
5	8-G	344	ASP	CA
5	8-G	373	THR	CA
5	8-G	405	SER	CA
6	8-H	352	LEU	CA
6	8-H	356	THR	CA
6	8-H	387	LYS	CA
6	8-H	446	ARG	CA
6	8-H	494	LEU	CA
2	8-I	11	GLN	CA
4	8-L	305	ASP	CA
4	8-L	341	ASP	CA
4	8-L	423	ALA	CA
4	8-L	454	TYR	CA
4	8-L	459	LEU	CA
4	8-L	460	LEU	CA
4	8-L	486	GLU	CA
5	8-M	327	ARG	CA
5	8-M	330	LYS	CA
5	8-M	338	GLU	CA
5	8-M	339	TYR	CA
5	8-M	340	ALA	CA
5	8-M	341	ALA	CA
5	8-M	344	ASP	CA
5	8-M	373	THR	CA
5	8-M	405	SER	CA
6	8-N	352	LEU	CA
6	8-N	356	THR	CA
6	8-N	387	LYS	CA
6	8-N	446	ARG	CA
6	8-N	494	LEU	CA
2	8-O	11	GLN	CA
4	8-R	305	ASP	CA
4	8-R	341	ASP	CA
4	8-R	423	ALA	CA
4	8-R	454	TYR	CA
4	8-R	459	LEU	CA
4	8-R	460	LEU	CA

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Mol	Chain	Res	Type	Atom
4	8-R	486	GLU	CA
5	8-S	327	ARG	CA
5	8-S	330	LYS	CA
5	8-S	338	GLU	CA
5	8-S	339	TYR	CA
5	8-S	340	ALA	CA
5	8-S	341	ALA	CA
5	8-S	344	ASP	CA
5	8-S	373	THR	CA
5	8-S	405	SER	CA
6	8-T	352	LEU	CA
6	8-T	356	THR	CA
6	8-T	387	LYS	CA
6	8-T	446	ARG	CA
6	8-T	494	LEU	CA
2	8-U	11	GLN	CA
4	8-X	305	ASP	CA
4	8-X	341	ASP	CA
4	8-X	423	ALA	CA
4	8-X	454	TYR	CA
4	8-X	459	LEU	CA
4	8-X	460	LEU	CA
4	8-X	486	GLU	CA
5	8-Y	327	ARG	CA
5	8-Y	330	LYS	CA
5	8-Y	338	GLU	CA
5	8-Y	339	TYR	CA
5	8-Y	340	ALA	CA
5	8-Y	341	ALA	CA
5	8-Y	344	ASP	CA
5	8-Y	373	THR	CA
5	8-Y	405	SER	CA
6	8-Z	352	LEU	CA
6	8-Z	356	THR	CA
6	8-Z	387	LYS	CA
6	8-Z	446	ARG	CA
6	8-Z	494	LEU	CA

All (2289) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1-A	259	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	1-B	259	SER	Mainchain
2	1-C	11	GLN	Mainchain
2	1-C	4	GLU	Mainchain
2	1-C	6	PHE	Mainchain
2	1-C	7	GLY	Mainchain
3	1-D	1448	MET	Mainchain
3	1-D	1449	TRP	Peptide
3	1-D	1450	GLU	Peptide
3	1-D	1484	ASP	Mainchain
3	1-D	1485	ALA	Mainchain
3	1-D	1486	CYS	Mainchain
3	1-D	1489	HIS	Mainchain
3	1-D	1503	ILE	Mainchain
3	1-D	1507	ASP	Mainchain
3	1-D	1508	LYS	Peptide,Mainchain
3	1-D	1509	GLN	Mainchain
3	1-D	1512	TRP	Mainchain
3	1-D	1516	LEU	Mainchain
3	1-D	1517	SER	Peptide,Mainchain
3	1-D	1518	ASN	Mainchain
3	1-D	1519	SER	Peptide
3	1-D	1538	SER	Mainchain
3	1-D	1541	THR	Mainchain
3	1-D	1542	PRO	Mainchain
1	1-E	259	SER	Mainchain
4	1-F	200	THR	Mainchain
4	1-F	208	GLN	Mainchain
4	1-F	210	VAL	Mainchain
4	1-F	221	GLN	Peptide,Mainchain
4	1-F	236	ASP	Mainchain
4	1-F	245	VAL	Mainchain
4	1-F	250	ASN	Mainchain
4	1-F	253	SER	Mainchain
4	1-F	393	GLN	Mainchain
4	1-F	397	ARG	Mainchain
4	1-F	398	LYS	Peptide,Mainchain
4	1-F	399	SER	Peptide
4	1-F	400	GLY	Mainchain
4	1-F	401	TYR	Mainchain
4	1-F	403	ILE	Peptide
4	1-F	419	GLY	Mainchain
4	1-F	420	GLU	Mainchain

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Mol	Chain	Res	Type	Group
4	1-F	421	LEU	Mainchain
4	1-F	422	ASN	Peptide,Mainchain
4	1-F	423	ALA	Mainchain
4	1-F	424	PRO	Peptide,Mainchain
4	1-F	425	THR	Mainchain
4	1-F	426	GLN	Mainchain
4	1-F	445	GLY	Mainchain
4	1-F	446	ALA	Mainchain
4	1-F	448	ARG	Mainchain
4	1-F	452	ARG	Mainchain
4	1-F	454	TYR	Peptide,Mainchain
4	1-F	456	ASP	Mainchain
4	1-F	457	ALA	Mainchain
4	1-F	459	LEU	Mainchain
4	1-F	462	GLU	Mainchain
4	1-F	463	ILE	Peptide
4	1-F	472	GLU	Mainchain
4	1-F	487	ASP	Mainchain
5	1-G	321	ASN	Mainchain
5	1-G	325	ALA	Mainchain
5	1-G	326	LEU	Peptide,Mainchain
5	1-G	329	GLN	Mainchain
5	1-G	330	LYS	Mainchain
5	1-G	340	ALA	Peptide,Mainchain
5	1-G	341	ALA	Mainchain
5	1-G	343	ALA	Mainchain
6	1-H	374	SER	Mainchain
6	1-H	407	LEU	Mainchain
6	1-H	408	SER	Peptide
6	1-H	493	ALA	Peptide
6	1-H	497	ARG	Mainchain
2	1-I	11	GLN	Mainchain
2	1-I	4	GLU	Mainchain
2	1-I	6	PHE	Mainchain
2	1-I	7	GLY	Mainchain
3	1-J	1448	MET	Mainchain
3	1-J	1449	TRP	Peptide
3	1-J	1450	GLU	Peptide
3	1-J	1484	ASP	Mainchain
3	1-J	1485	ALA	Mainchain
3	1-J	1486	CYS	Mainchain
3	1-J	1489	HIS	Mainchain

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Mol	Chain	Res	Type	Group
3	1-J	1503	ILE	Mainchain
3	1-J	1507	ASP	Mainchain
3	1-J	1508	LYS	Peptide,Mainchain
3	1-J	1509	GLN	Mainchain
3	1-J	1516	LEU	Mainchain
3	1-J	1517	SER	Peptide,Mainchain
3	1-J	1518	ASN	Mainchain
3	1-J	1519	SER	Peptide
3	1-J	1538	SER	Mainchain
3	1-J	1541	THR	Mainchain
3	1-J	1542	PRO	Mainchain
1	1-K	259	SER	Mainchain
4	1-L	200	THR	Mainchain
4	1-L	208	GLN	Mainchain
4	1-L	210	VAL	Mainchain
4	1-L	221	GLN	Peptide,Mainchain
4	1-L	236	ASP	Mainchain
4	1-L	245	VAL	Mainchain
4	1-L	250	ASN	Mainchain
4	1-L	253	SER	Mainchain
4	1-L	393	GLN	Mainchain
4	1-L	397	ARG	Mainchain
4	1-L	398	LYS	Peptide,Mainchain
4	1-L	399	SER	Peptide
4	1-L	400	GLY	Mainchain
4	1-L	401	TYR	Mainchain
4	1-L	403	ILE	Peptide
4	1-L	419	GLY	Mainchain
4	1-L	420	GLU	Mainchain
4	1-L	421	LEU	Mainchain
4	1-L	422	ASN	Peptide,Mainchain
4	1-L	423	ALA	Mainchain
4	1-L	424	PRO	Peptide,Mainchain
4	1-L	425	THR	Mainchain
4	1-L	426	GLN	Mainchain
4	1-L	445	GLY	Mainchain
4	1-L	446	ALA	Mainchain
4	1-L	448	ARG	Mainchain
4	1-L	452	ARG	Mainchain
4	1-L	454	TYR	Peptide,Mainchain
4	1-L	456	ASP	Mainchain
4	1-L	457	ALA	Mainchain

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Mol	Chain	Res	Type	Group
4	1-L	459	LEU	Mainchain
4	1-L	462	GLU	Mainchain
4	1-L	463	ILE	Peptide
4	1-L	472	GLU	Mainchain
4	1-L	487	ASP	Mainchain
5	1-M	321	ASN	Mainchain
5	1-M	325	ALA	Mainchain
5	1-M	326	LEU	Peptide,Mainchain
5	1-M	329	GLN	Mainchain
5	1-M	330	LYS	Mainchain
5	1-M	340	ALA	Peptide,Mainchain
5	1-M	341	ALA	Mainchain
5	1-M	343	ALA	Mainchain
6	1-N	374	SER	Mainchain
6	1-N	407	LEU	Mainchain
6	1-N	408	SER	Peptide
6	1-N	493	ALA	Peptide
6	1-N	497	ARG	Mainchain
2	1-O	11	GLN	Mainchain
2	1-O	4	GLU	Mainchain
2	1-O	6	PHE	Mainchain
2	1-O	7	GLY	Mainchain
3	1-P	1448	MET	Mainchain
3	1-P	1449	TRP	Peptide
3	1-P	1450	GLU	Peptide
3	1-P	1484	ASP	Mainchain
3	1-P	1485	ALA	Mainchain
3	1-P	1486	CYS	Mainchain
3	1-P	1489	HIS	Mainchain
3	1-P	1503	ILE	Mainchain
3	1-P	1507	ASP	Mainchain
3	1-P	1508	LYS	Peptide,Mainchain
3	1-P	1509	GLN	Mainchain
3	1-P	1516	LEU	Mainchain
3	1-P	1517	SER	Peptide,Mainchain
3	1-P	1518	ASN	Mainchain
3	1-P	1519	SER	Peptide
3	1-P	1538	SER	Mainchain
3	1-P	1541	THR	Mainchain
3	1-P	1542	PRO	Mainchain
1	1-Q	259	SER	Mainchain
4	1-R	200	THR	Mainchain

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Mol	Chain	Res	Type	Group
4	1-R	208	GLN	Mainchain
4	1-R	210	VAL	Mainchain
4	1-R	221	GLN	Peptide,Mainchain
4	1-R	236	ASP	Mainchain
4	1-R	245	VAL	Mainchain
4	1-R	250	ASN	Mainchain
4	1-R	253	SER	Mainchain
4	1-R	393	GLN	Mainchain
4	1-R	397	ARG	Mainchain
4	1-R	398	LYS	Peptide,Mainchain
4	1-R	399	SER	Peptide
4	1-R	400	GLY	Mainchain
4	1-R	401	TYR	Mainchain
4	1-R	403	ILE	Peptide
4	1-R	419	GLY	Mainchain
4	1-R	420	GLU	Mainchain
4	1-R	421	LEU	Mainchain
4	1-R	422	ASN	Peptide,Mainchain
4	1-R	423	ALA	Mainchain
4	1-R	424	PRO	Peptide,Mainchain
4	1-R	425	THR	Mainchain
4	1-R	426	GLN	Mainchain
4	1-R	445	GLY	Mainchain
4	1-R	446	ALA	Mainchain
4	1-R	448	ARG	Mainchain
4	1-R	452	ARG	Mainchain
4	1-R	454	TYR	Peptide,Mainchain
4	1-R	456	ASP	Mainchain
4	1-R	457	ALA	Mainchain
4	1-R	459	LEU	Mainchain
4	1-R	462	GLU	Mainchain
4	1-R	463	ILE	Peptide
4	1-R	472	GLU	Mainchain
4	1-R	487	ASP	Mainchain
5	1-S	321	ASN	Mainchain
5	1-S	325	ALA	Mainchain
5	1-S	326	LEU	Peptide,Mainchain
5	1-S	329	GLN	Mainchain
5	1-S	330	LYS	Mainchain
5	1-S	340	ALA	Peptide,Mainchain
5	1-S	341	ALA	Mainchain
5	1-S	343	ALA	Mainchain

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Mol	Chain	Res	Type	Group
6	1-T	374	SER	Mainchain
6	1-T	407	LEU	Mainchain
6	1-T	408	SER	Peptide
6	1-T	493	ALA	Peptide
2	1-U	11	GLN	Mainchain
2	1-U	4	GLU	Mainchain
2	1-U	6	PHE	Mainchain
2	1-U	7	GLY	Mainchain
3	1-V	1448	MET	Mainchain
3	1-V	1449	TRP	Peptide
3	1-V	1450	GLU	Peptide
3	1-V	1484	ASP	Mainchain
3	1-V	1485	ALA	Mainchain
3	1-V	1486	CYS	Mainchain
3	1-V	1489	HIS	Mainchain
3	1-V	1503	ILE	Mainchain
3	1-V	1507	ASP	Mainchain
3	1-V	1508	LYS	Peptide,Mainchain
3	1-V	1509	GLN	Mainchain
3	1-V	1516	LEU	Mainchain
3	1-V	1517	SER	Peptide,Mainchain
3	1-V	1518	ASN	Mainchain
3	1-V	1519	SER	Peptide
3	1-V	1538	SER	Mainchain
3	1-V	1541	THR	Mainchain
3	1-V	1542	PRO	Mainchain
1	1-W	259	SER	Mainchain
4	1-X	200	THR	Mainchain
4	1-X	208	GLN	Mainchain
4	1-X	210	VAL	Mainchain
4	1-X	221	GLN	Peptide,Mainchain
4	1-X	236	ASP	Mainchain
4	1-X	245	VAL	Mainchain
4	1-X	250	ASN	Mainchain
4	1-X	253	SER	Mainchain
4	1-X	393	GLN	Mainchain
4	1-X	397	ARG	Mainchain
4	1-X	398	LYS	Peptide,Mainchain
4	1-X	399	SER	Peptide
4	1-X	400	GLY	Mainchain
4	1-X	401	TYR	Mainchain
4	1-X	403	ILE	Peptide

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Mol	Chain	Res	Type	Group
4	1-X	419	GLY	Mainchain
4	1-X	420	GLU	Mainchain
4	1-X	421	LEU	Mainchain
4	1-X	422	ASN	Peptide,Mainchain
4	1-X	423	ALA	Mainchain
4	1-X	424	PRO	Peptide,Mainchain
4	1-X	425	THR	Mainchain
4	1-X	426	GLN	Mainchain
4	1-X	445	GLY	Mainchain
4	1-X	446	ALA	Mainchain
4	1-X	448	ARG	Mainchain
4	1-X	452	ARG	Mainchain
4	1-X	454	TYR	Peptide,Mainchain
4	1-X	456	ASP	Mainchain
4	1-X	457	ALA	Mainchain
4	1-X	459	LEU	Mainchain
4	1-X	462	GLU	Mainchain
4	1-X	463	ILE	Peptide
4	1-X	472	GLU	Mainchain
4	1-X	487	ASP	Mainchain
5	1-Y	321	ASN	Mainchain
5	1-Y	325	ALA	Mainchain
5	1-Y	326	LEU	Peptide,Mainchain
5	1-Y	329	GLN	Mainchain
5	1-Y	330	LYS	Mainchain
5	1-Y	340	ALA	Peptide,Mainchain
5	1-Y	341	ALA	Mainchain
5	1-Y	343	ALA	Mainchain
6	1-Z	374	SER	Mainchain
6	1-Z	407	LEU	Mainchain
6	1-Z	408	SER	Peptide
6	1-Z	493	ALA	Peptide
6	1-Z	497	ARG	Mainchain
2	2-C	11	GLN	Mainchain
2	2-C	4	GLU	Mainchain
2	2-C	6	PHE	Mainchain
2	2-C	7	GLY	Mainchain
3	2-D	1448	MET	Mainchain
3	2-D	1449	TRP	Peptide
3	2-D	1450	GLU	Peptide
3	2-D	1484	ASP	Mainchain
3	2-D	1485	ALA	Mainchain

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Mol	Chain	Res	Type	Group
3	2-D	1486	CYS	Mainchain
3	2-D	1489	HIS	Mainchain
3	2-D	1503	ILE	Mainchain
3	2-D	1507	ASP	Mainchain
3	2-D	1508	LYS	Peptide,Mainchain
3	2-D	1509	GLN	Mainchain
3	2-D	1516	LEU	Mainchain
3	2-D	1517	SER	Peptide,Mainchain
3	2-D	1518	ASN	Mainchain
3	2-D	1519	SER	Peptide
3	2-D	1538	SER	Mainchain
3	2-D	1541	THR	Mainchain
3	2-D	1542	PRO	Mainchain
4	2-F	393	GLN	Mainchain
4	2-F	397	ARG	Mainchain
4	2-F	398	LYS	Peptide,Mainchain
4	2-F	399	SER	Peptide
4	2-F	400	GLY	Mainchain
4	2-F	401	TYR	Mainchain
4	2-F	403	ILE	Peptide
4	2-F	419	GLY	Mainchain
4	2-F	420	GLU	Mainchain
4	2-F	421	LEU	Mainchain
4	2-F	422	ASN	Peptide,Mainchain
4	2-F	423	ALA	Mainchain
4	2-F	424	PRO	Peptide,Mainchain
4	2-F	425	THR	Mainchain
4	2-F	426	GLN	Mainchain
4	2-F	445	GLY	Mainchain
4	2-F	446	ALA	Mainchain
4	2-F	448	ARG	Mainchain
4	2-F	452	ARG	Mainchain
4	2-F	454	TYR	Peptide,Mainchain
4	2-F	456	ASP	Mainchain
4	2-F	457	ALA	Mainchain
4	2-F	459	LEU	Mainchain
4	2-F	462	GLU	Mainchain
4	2-F	463	ILE	Peptide
4	2-F	472	GLU	Mainchain
4	2-F	487	ASP	Mainchain
5	2-G	321	ASN	Mainchain
5	2-G	325	ALA	Mainchain

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Mol	Chain	Res	Type	Group
5	2-G	326	LEU	Peptide,Mainchain
5	2-G	329	GLN	Mainchain
5	2-G	330	LYS	Mainchain
5	2-G	340	ALA	Peptide,Mainchain
5	2-G	341	ALA	Mainchain
5	2-G	343	ALA	Mainchain
6	2-H	374	SER	Mainchain
6	2-H	407	LEU	Mainchain
6	2-H	408	SER	Peptide
6	2-H	493	ALA	Peptide
6	2-H	497	ARG	Mainchain
2	2-I	11	GLN	Mainchain
2	2-I	4	GLU	Mainchain
2	2-I	6	PHE	Mainchain
2	2-I	7	GLY	Mainchain
3	2-J	1448	MET	Mainchain
3	2-J	1449	TRP	Peptide
3	2-J	1450	GLU	Peptide
3	2-J	1484	ASP	Mainchain
3	2-J	1485	ALA	Mainchain
3	2-J	1486	CYS	Mainchain
3	2-J	1489	HIS	Mainchain
3	2-J	1503	ILE	Mainchain
3	2-J	1507	ASP	Mainchain
3	2-J	1508	LYS	Peptide,Mainchain
3	2-J	1509	GLN	Mainchain
3	2-J	1516	LEU	Mainchain
3	2-J	1517	SER	Peptide,Mainchain
3	2-J	1518	ASN	Mainchain
3	2-J	1519	SER	Peptide
3	2-J	1538	SER	Mainchain
3	2-J	1541	THR	Mainchain
3	2-J	1542	PRO	Mainchain
4	2-L	393	GLN	Mainchain
4	2-L	397	ARG	Mainchain
4	2-L	398	LYS	Peptide,Mainchain
4	2-L	399	SER	Peptide
4	2-L	400	GLY	Mainchain
4	2-L	401	TYR	Mainchain
4	2-L	403	ILE	Peptide
4	2-L	419	GLY	Mainchain
4	2-L	420	GLU	Mainchain

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Mol	Chain	Res	Type	Group
4	2-L	421	LEU	Mainchain
4	2-L	422	ASN	Peptide,Mainchain
4	2-L	423	ALA	Mainchain
4	2-L	424	PRO	Peptide,Mainchain
4	2-L	425	THR	Mainchain
4	2-L	426	GLN	Mainchain
4	2-L	445	GLY	Mainchain
4	2-L	446	ALA	Mainchain
4	2-L	448	ARG	Mainchain
4	2-L	452	ARG	Mainchain
4	2-L	454	TYR	Peptide,Mainchain
4	2-L	456	ASP	Mainchain
4	2-L	457	ALA	Mainchain
4	2-L	459	LEU	Mainchain
4	2-L	462	GLU	Mainchain
4	2-L	463	ILE	Peptide
4	2-L	472	GLU	Mainchain
4	2-L	487	ASP	Mainchain
5	2-M	321	ASN	Mainchain
5	2-M	325	ALA	Mainchain
5	2-M	326	LEU	Peptide,Mainchain
5	2-M	329	GLN	Mainchain
5	2-M	330	LYS	Mainchain
5	2-M	340	ALA	Peptide,Mainchain
5	2-M	341	ALA	Mainchain
5	2-M	343	ALA	Mainchain
6	2-N	374	SER	Mainchain
6	2-N	407	LEU	Mainchain
6	2-N	408	SER	Peptide
6	2-N	493	ALA	Peptide
6	2-N	497	ARG	Mainchain
2	2-O	11	GLN	Mainchain
2	2-O	4	GLU	Mainchain
2	2-O	6	PHE	Mainchain
2	2-O	7	GLY	Mainchain
3	2-P	1448	MET	Mainchain
3	2-P	1449	TRP	Peptide
3	2-P	1450	GLU	Peptide
3	2-P	1484	ASP	Mainchain
3	2-P	1485	ALA	Mainchain
3	2-P	1486	CYS	Mainchain
3	2-P	1489	HIS	Mainchain

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Mol	Chain	Res	Type	Group
3	2-P	1503	ILE	Mainchain
3	2-P	1507	ASP	Mainchain
3	2-P	1508	LYS	Peptide,Mainchain
3	2-P	1509	GLN	Mainchain
3	2-P	1512	TRP	Mainchain
3	2-P	1516	LEU	Mainchain
3	2-P	1517	SER	Peptide,Mainchain
3	2-P	1518	ASN	Mainchain
3	2-P	1519	SER	Peptide
3	2-P	1538	SER	Mainchain
3	2-P	1541	THR	Mainchain
3	2-P	1542	PRO	Mainchain
4	2-R	393	GLN	Mainchain
4	2-R	397	ARG	Mainchain
4	2-R	398	LYS	Peptide,Mainchain
4	2-R	399	SER	Peptide
4	2-R	400	GLY	Mainchain
4	2-R	401	TYR	Mainchain
4	2-R	403	ILE	Peptide
4	2-R	419	GLY	Mainchain
4	2-R	420	GLU	Mainchain
4	2-R	421	LEU	Mainchain
4	2-R	422	ASN	Peptide,Mainchain
4	2-R	423	ALA	Mainchain
4	2-R	424	PRO	Peptide,Mainchain
4	2-R	425	THR	Mainchain
4	2-R	426	GLN	Mainchain
4	2-R	445	GLY	Mainchain
4	2-R	446	ALA	Mainchain
4	2-R	448	ARG	Mainchain
4	2-R	452	ARG	Mainchain
4	2-R	454	TYR	Peptide,Mainchain
4	2-R	456	ASP	Mainchain
4	2-R	457	ALA	Mainchain
4	2-R	459	LEU	Mainchain
4	2-R	462	GLU	Mainchain
4	2-R	463	ILE	Peptide
4	2-R	472	GLU	Mainchain
4	2-R	487	ASP	Mainchain
5	2-S	321	ASN	Mainchain
5	2-S	325	ALA	Mainchain
5	2-S	326	LEU	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
5	2-S	329	GLN	Mainchain
5	2-S	330	LYS	Mainchain
5	2-S	340	ALA	Peptide,Mainchain
5	2-S	341	ALA	Mainchain
5	2-S	343	ALA	Mainchain
6	2-T	374	SER	Mainchain
6	2-T	407	LEU	Mainchain
6	2-T	408	SER	Peptide
6	2-T	493	ALA	Peptide
2	2-U	11	GLN	Mainchain
2	2-U	4	GLU	Mainchain
2	2-U	6	PHE	Mainchain
2	2-U	7	GLY	Mainchain
3	2-V	1448	MET	Mainchain
3	2-V	1449	TRP	Peptide
3	2-V	1450	GLU	Peptide
3	2-V	1484	ASP	Mainchain
3	2-V	1485	ALA	Mainchain
3	2-V	1486	CYS	Mainchain
3	2-V	1489	HIS	Mainchain
3	2-V	1503	ILE	Mainchain
3	2-V	1507	ASP	Mainchain
3	2-V	1508	LYS	Peptide,Mainchain
3	2-V	1509	GLN	Mainchain
3	2-V	1516	LEU	Mainchain
3	2-V	1517	SER	Peptide,Mainchain
3	2-V	1518	ASN	Mainchain
3	2-V	1519	SER	Peptide
3	2-V	1538	SER	Mainchain
3	2-V	1541	THR	Mainchain
3	2-V	1542	PRO	Mainchain
4	2-X	393	GLN	Mainchain
4	2-X	397	ARG	Mainchain
4	2-X	398	LYS	Peptide,Mainchain
4	2-X	399	SER	Peptide
4	2-X	400	GLY	Mainchain
4	2-X	401	TYR	Mainchain
4	2-X	403	ILE	Peptide
4	2-X	419	GLY	Mainchain
4	2-X	420	GLU	Mainchain
4	2-X	421	LEU	Mainchain
4	2-X	422	ASN	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
4	2-X	423	ALA	Mainchain
4	2-X	424	PRO	Peptide,Mainchain
4	2-X	425	THR	Mainchain
4	2-X	426	GLN	Mainchain
4	2-X	445	GLY	Mainchain
4	2-X	446	ALA	Mainchain
4	2-X	448	ARG	Mainchain
4	2-X	452	ARG	Mainchain
4	2-X	454	TYR	Peptide,Mainchain
4	2-X	456	ASP	Mainchain
4	2-X	457	ALA	Mainchain
4	2-X	459	LEU	Mainchain
4	2-X	462	GLU	Mainchain
4	2-X	463	ILE	Peptide
4	2-X	472	GLU	Mainchain
4	2-X	487	ASP	Mainchain
5	2-Y	321	ASN	Mainchain
5	2-Y	325	ALA	Mainchain
5	2-Y	326	LEU	Peptide,Mainchain
5	2-Y	329	GLN	Mainchain
5	2-Y	330	LYS	Mainchain
5	2-Y	340	ALA	Peptide,Mainchain
5	2-Y	341	ALA	Mainchain
5	2-Y	343	ALA	Mainchain
6	2-Z	374	SER	Mainchain
6	2-Z	407	LEU	Mainchain
6	2-Z	408	SER	Peptide
6	2-Z	493	ALA	Peptide
6	2-Z	497	ARG	Mainchain
2	3-C	11	GLN	Mainchain
2	3-C	4	GLU	Mainchain
2	3-C	6	PHE	Mainchain
2	3-C	7	GLY	Mainchain
3	3-D	1448	MET	Mainchain
3	3-D	1449	TRP	Peptide
3	3-D	1450	GLU	Peptide
3	3-D	1484	ASP	Mainchain
3	3-D	1485	ALA	Mainchain
3	3-D	1486	CYS	Mainchain
3	3-D	1489	HIS	Mainchain
3	3-D	1503	ILE	Mainchain
3	3-D	1507	ASP	Mainchain

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Mol	Chain	Res	Type	Group
3	3-D	1508	LYS	Peptide,Mainchain
3	3-D	1509	GLN	Mainchain
3	3-D	1516	LEU	Mainchain
3	3-D	1517	SER	Peptide,Mainchain
3	3-D	1518	ASN	Mainchain
3	3-D	1519	SER	Peptide
3	3-D	1538	SER	Mainchain
3	3-D	1541	THR	Mainchain
3	3-D	1542	PRO	Mainchain
4	3-F	393	GLN	Mainchain
4	3-F	397	ARG	Mainchain
4	3-F	398	LYS	Peptide,Mainchain
4	3-F	399	SER	Peptide
4	3-F	400	GLY	Mainchain
4	3-F	401	TYR	Mainchain
4	3-F	403	ILE	Peptide
4	3-F	419	GLY	Mainchain
4	3-F	420	GLU	Mainchain
4	3-F	421	LEU	Mainchain
4	3-F	422	ASN	Peptide,Mainchain
4	3-F	423	ALA	Mainchain
4	3-F	424	PRO	Peptide,Mainchain
4	3-F	425	THR	Mainchain
4	3-F	426	GLN	Mainchain
4	3-F	445	GLY	Mainchain
4	3-F	446	ALA	Mainchain
4	3-F	448	ARG	Mainchain
4	3-F	452	ARG	Mainchain
4	3-F	454	TYR	Peptide,Mainchain
4	3-F	456	ASP	Mainchain
4	3-F	457	ALA	Mainchain
4	3-F	459	LEU	Mainchain
4	3-F	462	GLU	Mainchain
4	3-F	463	ILE	Peptide
4	3-F	472	GLU	Mainchain
4	3-F	487	ASP	Mainchain
5	3-G	321	ASN	Mainchain
5	3-G	325	ALA	Mainchain
5	3-G	326	LEU	Peptide,Mainchain
5	3-G	329	GLN	Mainchain
5	3-G	330	LYS	Mainchain
5	3-G	340	ALA	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
5	3-G	341	ALA	Mainchain
5	3-G	343	ALA	Mainchain
6	3-H	374	SER	Mainchain
6	3-H	407	LEU	Mainchain
6	3-H	408	SER	Peptide
6	3-H	493	ALA	Peptide
6	3-H	497	ARG	Mainchain
2	3-I	11	GLN	Mainchain
2	3-I	4	GLU	Mainchain
2	3-I	6	PHE	Mainchain
2	3-I	7	GLY	Mainchain
3	3-J	1448	MET	Mainchain
3	3-J	1449	TRP	Peptide
3	3-J	1450	GLU	Peptide
3	3-J	1484	ASP	Mainchain
3	3-J	1485	ALA	Mainchain
3	3-J	1486	CYS	Mainchain
3	3-J	1489	HIS	Mainchain
3	3-J	1503	ILE	Mainchain
3	3-J	1507	ASP	Mainchain
3	3-J	1508	LYS	Peptide,Mainchain
3	3-J	1509	GLN	Mainchain
3	3-J	1516	LEU	Mainchain
3	3-J	1517	SER	Peptide,Mainchain
3	3-J	1518	ASN	Mainchain
3	3-J	1519	SER	Peptide
3	3-J	1538	SER	Mainchain
3	3-J	1541	THR	Mainchain
3	3-J	1542	PRO	Mainchain
4	3-L	393	GLN	Mainchain
4	3-L	397	ARG	Mainchain
4	3-L	398	LYS	Peptide,Mainchain
4	3-L	399	SER	Peptide
4	3-L	400	GLY	Mainchain
4	3-L	401	TYR	Mainchain
4	3-L	403	ILE	Peptide
4	3-L	419	GLY	Mainchain
4	3-L	420	GLU	Mainchain
4	3-L	421	LEU	Mainchain
4	3-L	422	ASN	Peptide,Mainchain
4	3-L	423	ALA	Mainchain
4	3-L	424	PRO	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
4	3-L	425	THR	Mainchain
4	3-L	426	GLN	Mainchain
4	3-L	445	GLY	Mainchain
4	3-L	446	ALA	Mainchain
4	3-L	448	ARG	Mainchain
4	3-L	452	ARG	Mainchain
4	3-L	454	TYR	Peptide,Mainchain
4	3-L	456	ASP	Mainchain
4	3-L	457	ALA	Mainchain
4	3-L	459	LEU	Mainchain
4	3-L	462	GLU	Mainchain
4	3-L	463	ILE	Peptide
4	3-L	472	GLU	Mainchain
4	3-L	487	ASP	Mainchain
5	3-M	321	ASN	Mainchain
5	3-M	325	ALA	Mainchain
5	3-M	326	LEU	Peptide,Mainchain
5	3-M	329	GLN	Mainchain
5	3-M	330	LYS	Mainchain
5	3-M	340	ALA	Peptide,Mainchain
5	3-M	341	ALA	Mainchain
5	3-M	343	ALA	Mainchain
6	3-N	374	SER	Mainchain
6	3-N	407	LEU	Mainchain
6	3-N	408	SER	Peptide
6	3-N	493	ALA	Peptide
6	3-N	497	ARG	Mainchain
2	3-O	11	GLN	Mainchain
2	3-O	4	GLU	Mainchain
2	3-O	6	PHE	Mainchain
2	3-O	7	GLY	Mainchain
3	3-P	1448	MET	Mainchain
3	3-P	1449	TRP	Peptide
3	3-P	1450	GLU	Peptide
3	3-P	1484	ASP	Mainchain
3	3-P	1485	ALA	Mainchain
3	3-P	1486	CYS	Mainchain
3	3-P	1489	HIS	Mainchain
3	3-P	1503	ILE	Mainchain
3	3-P	1507	ASP	Mainchain
3	3-P	1508	LYS	Peptide,Mainchain
3	3-P	1509	GLN	Mainchain

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Mol	Chain	Res	Type	Group
3	3-P	1512	TRP	Mainchain
3	3-P	1516	LEU	Mainchain
3	3-P	1517	SER	Peptide,Mainchain
3	3-P	1518	ASN	Mainchain
3	3-P	1519	SER	Peptide
3	3-P	1538	SER	Mainchain
3	3-P	1541	THR	Mainchain
3	3-P	1542	PRO	Mainchain
4	3-R	393	GLN	Mainchain
4	3-R	397	ARG	Mainchain
4	3-R	398	LYS	Peptide,Mainchain
4	3-R	399	SER	Peptide
4	3-R	400	GLY	Mainchain
4	3-R	401	TYR	Mainchain
4	3-R	403	ILE	Peptide
4	3-R	419	GLY	Mainchain
4	3-R	420	GLU	Mainchain
4	3-R	421	LEU	Mainchain
4	3-R	422	ASN	Peptide,Mainchain
4	3-R	423	ALA	Mainchain
4	3-R	424	PRO	Peptide,Mainchain
4	3-R	425	THR	Mainchain
4	3-R	426	GLN	Mainchain
4	3-R	445	GLY	Mainchain
4	3-R	446	ALA	Mainchain
4	3-R	448	ARG	Mainchain
4	3-R	452	ARG	Mainchain
4	3-R	454	TYR	Peptide,Mainchain
4	3-R	456	ASP	Mainchain
4	3-R	457	ALA	Mainchain
4	3-R	459	LEU	Mainchain
4	3-R	462	GLU	Mainchain
4	3-R	463	ILE	Peptide
4	3-R	472	GLU	Mainchain
4	3-R	487	ASP	Mainchain
5	3-S	321	ASN	Mainchain
5	3-S	325	ALA	Mainchain
5	3-S	326	LEU	Peptide,Mainchain
5	3-S	329	GLN	Mainchain
5	3-S	330	LYS	Mainchain
5	3-S	340	ALA	Peptide,Mainchain
5	3-S	341	ALA	Mainchain

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Mol	Chain	Res	Type	Group
5	3-S	343	ALA	Mainchain
6	3-T	374	SER	Mainchain
6	3-T	407	LEU	Mainchain
6	3-T	408	SER	Peptide
6	3-T	493	ALA	Peptide
2	3-U	11	GLN	Mainchain
2	3-U	4	GLU	Mainchain
2	3-U	6	PHE	Mainchain
2	3-U	7	GLY	Mainchain
3	3-V	1448	MET	Mainchain
3	3-V	1449	TRP	Peptide
3	3-V	1450	GLU	Peptide
3	3-V	1484	ASP	Mainchain
3	3-V	1485	ALA	Mainchain
3	3-V	1486	CYS	Mainchain
3	3-V	1489	HIS	Mainchain
3	3-V	1503	ILE	Mainchain
3	3-V	1507	ASP	Mainchain
3	3-V	1508	LYS	Peptide,Mainchain
3	3-V	1509	GLN	Mainchain
3	3-V	1516	LEU	Mainchain
3	3-V	1517	SER	Peptide,Mainchain
3	3-V	1518	ASN	Mainchain
3	3-V	1519	SER	Peptide
3	3-V	1538	SER	Mainchain
3	3-V	1541	THR	Mainchain
3	3-V	1542	PRO	Mainchain
4	3-X	393	GLN	Mainchain
4	3-X	397	ARG	Mainchain
4	3-X	398	LYS	Peptide,Mainchain
4	3-X	399	SER	Peptide
4	3-X	400	GLY	Mainchain
4	3-X	401	TYR	Mainchain
4	3-X	403	ILE	Peptide
4	3-X	419	GLY	Mainchain
4	3-X	420	GLU	Mainchain
4	3-X	421	LEU	Mainchain
4	3-X	422	ASN	Peptide,Mainchain
4	3-X	423	ALA	Mainchain
4	3-X	424	PRO	Peptide,Mainchain
4	3-X	425	THR	Mainchain
4	3-X	426	GLN	Mainchain

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Mol	Chain	Res	Type	Group
4	3-X	445	GLY	Mainchain
4	3-X	446	ALA	Mainchain
4	3-X	448	ARG	Mainchain
4	3-X	452	ARG	Mainchain
4	3-X	454	TYR	Peptide,Mainchain
4	3-X	456	ASP	Mainchain
4	3-X	457	ALA	Mainchain
4	3-X	459	LEU	Mainchain
4	3-X	462	GLU	Mainchain
4	3-X	463	ILE	Peptide
4	3-X	472	GLU	Mainchain
4	3-X	487	ASP	Mainchain
5	3-Y	321	ASN	Mainchain
5	3-Y	325	ALA	Mainchain
5	3-Y	326	LEU	Peptide,Mainchain
5	3-Y	329	GLN	Mainchain
5	3-Y	330	LYS	Mainchain
5	3-Y	340	ALA	Peptide,Mainchain
5	3-Y	341	ALA	Mainchain
5	3-Y	343	ALA	Mainchain
6	3-Z	374	SER	Mainchain
6	3-Z	407	LEU	Mainchain
6	3-Z	408	SER	Peptide
6	3-Z	493	ALA	Peptide
6	3-Z	497	ARG	Mainchain
2	4-C	11	GLN	Mainchain
2	4-C	4	GLU	Mainchain
2	4-C	6	PHE	Mainchain
2	4-C	7	GLY	Mainchain
3	4-D	1448	MET	Mainchain
3	4-D	1449	TRP	Peptide
3	4-D	1450	GLU	Peptide
3	4-D	1484	ASP	Mainchain
3	4-D	1485	ALA	Mainchain
3	4-D	1486	CYS	Mainchain
3	4-D	1489	HIS	Mainchain
3	4-D	1503	ILE	Mainchain
3	4-D	1507	ASP	Mainchain
3	4-D	1508	LYS	Peptide,Mainchain
3	4-D	1509	GLN	Mainchain
3	4-D	1516	LEU	Mainchain
3	4-D	1517	SER	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
3	4-D	1518	ASN	Mainchain
3	4-D	1519	SER	Peptide
3	4-D	1538	SER	Mainchain
3	4-D	1541	THR	Mainchain
3	4-D	1542	PRO	Mainchain
4	4-F	393	GLN	Mainchain
4	4-F	397	ARG	Mainchain
4	4-F	398	LYS	Peptide,Mainchain
4	4-F	399	SER	Peptide
4	4-F	400	GLY	Mainchain
4	4-F	401	TYR	Mainchain
4	4-F	403	ILE	Peptide
4	4-F	419	GLY	Mainchain
4	4-F	420	GLU	Mainchain
4	4-F	421	LEU	Mainchain
4	4-F	422	ASN	Peptide,Mainchain
4	4-F	423	ALA	Mainchain
4	4-F	424	PRO	Peptide,Mainchain
4	4-F	425	THR	Mainchain
4	4-F	426	GLN	Mainchain
4	4-F	445	GLY	Mainchain
4	4-F	446	ALA	Mainchain
4	4-F	448	ARG	Mainchain
4	4-F	452	ARG	Mainchain
4	4-F	454	TYR	Peptide,Mainchain
4	4-F	456	ASP	Mainchain
4	4-F	457	ALA	Mainchain
4	4-F	459	LEU	Mainchain
4	4-F	462	GLU	Mainchain
4	4-F	463	ILE	Peptide
4	4-F	472	GLU	Mainchain
4	4-F	487	ASP	Mainchain
5	4-G	321	ASN	Mainchain
5	4-G	325	ALA	Mainchain
5	4-G	326	LEU	Peptide,Mainchain
5	4-G	329	GLN	Mainchain
5	4-G	330	LYS	Mainchain
5	4-G	340	ALA	Peptide,Mainchain
5	4-G	341	ALA	Mainchain
5	4-G	343	ALA	Mainchain
6	4-H	374	SER	Mainchain
6	4-H	407	LEU	Mainchain

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Mol	Chain	Res	Type	Group
6	4-H	408	SER	Peptide
6	4-H	493	ALA	Peptide
6	4-H	497	ARG	Mainchain
2	4-I	11	GLN	Mainchain
2	4-I	4	GLU	Mainchain
2	4-I	6	PHE	Mainchain
2	4-I	7	GLY	Mainchain
3	4-J	1448	MET	Mainchain
3	4-J	1449	TRP	Peptide
3	4-J	1450	GLU	Peptide
3	4-J	1484	ASP	Mainchain
3	4-J	1485	ALA	Mainchain
3	4-J	1486	CYS	Mainchain
3	4-J	1489	HIS	Mainchain
3	4-J	1503	ILE	Mainchain
3	4-J	1507	ASP	Mainchain
3	4-J	1508	LYS	Peptide,Mainchain
3	4-J	1509	GLN	Mainchain
3	4-J	1516	LEU	Mainchain
3	4-J	1517	SER	Peptide,Mainchain
3	4-J	1518	ASN	Mainchain
3	4-J	1519	SER	Peptide
3	4-J	1538	SER	Mainchain
3	4-J	1541	THR	Mainchain
3	4-J	1542	PRO	Mainchain
4	4-L	393	GLN	Mainchain
4	4-L	397	ARG	Mainchain
4	4-L	398	LYS	Peptide,Mainchain
4	4-L	399	SER	Peptide
4	4-L	400	GLY	Mainchain
4	4-L	401	TYR	Mainchain
4	4-L	403	ILE	Peptide
4	4-L	419	GLY	Mainchain
4	4-L	420	GLU	Mainchain
4	4-L	421	LEU	Mainchain
4	4-L	422	ASN	Peptide,Mainchain
4	4-L	423	ALA	Mainchain
4	4-L	424	PRO	Peptide,Mainchain
4	4-L	425	THR	Mainchain
4	4-L	426	GLN	Mainchain
4	4-L	445	GLY	Mainchain
4	4-L	446	ALA	Mainchain

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Mol	Chain	Res	Type	Group
4	4-L	448	ARG	Mainchain
4	4-L	452	ARG	Mainchain
4	4-L	454	TYR	Peptide,Mainchain
4	4-L	456	ASP	Mainchain
4	4-L	457	ALA	Mainchain
4	4-L	459	LEU	Mainchain
4	4-L	462	GLU	Mainchain
4	4-L	463	ILE	Peptide
4	4-L	472	GLU	Mainchain
4	4-L	487	ASP	Mainchain
5	4-M	321	ASN	Mainchain
5	4-M	325	ALA	Mainchain
5	4-M	326	LEU	Peptide,Mainchain
5	4-M	329	GLN	Mainchain
5	4-M	330	LYS	Mainchain
5	4-M	340	ALA	Peptide,Mainchain
5	4-M	341	ALA	Mainchain
5	4-M	343	ALA	Mainchain
6	4-N	374	SER	Mainchain
6	4-N	407	LEU	Mainchain
6	4-N	408	SER	Peptide
6	4-N	493	ALA	Peptide
6	4-N	497	ARG	Mainchain
2	4-O	11	GLN	Mainchain
2	4-O	4	GLU	Mainchain
2	4-O	6	PHE	Mainchain
2	4-O	7	GLY	Mainchain
3	4-P	1448	MET	Mainchain
3	4-P	1449	TRP	Peptide
3	4-P	1450	GLU	Peptide
3	4-P	1484	ASP	Mainchain
3	4-P	1485	ALA	Mainchain
3	4-P	1486	CYS	Mainchain
3	4-P	1489	HIS	Mainchain
3	4-P	1503	ILE	Mainchain
3	4-P	1507	ASP	Mainchain
3	4-P	1508	LYS	Peptide,Mainchain
3	4-P	1509	GLN	Mainchain
3	4-P	1512	TRP	Mainchain
3	4-P	1516	LEU	Mainchain
3	4-P	1517	SER	Peptide,Mainchain
3	4-P	1518	ASN	Mainchain

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Mol	Chain	Res	Type	Group
3	4-P	1519	SER	Peptide
3	4-P	1538	SER	Mainchain
3	4-P	1541	THR	Mainchain
3	4-P	1542	PRO	Mainchain
4	4-R	393	GLN	Mainchain
4	4-R	397	ARG	Mainchain
4	4-R	398	LYS	Peptide,Mainchain
4	4-R	399	SER	Peptide
4	4-R	400	GLY	Mainchain
4	4-R	401	TYR	Mainchain
4	4-R	403	ILE	Peptide
4	4-R	419	GLY	Mainchain
4	4-R	420	GLU	Mainchain
4	4-R	421	LEU	Mainchain
4	4-R	422	ASN	Peptide,Mainchain
4	4-R	423	ALA	Mainchain
4	4-R	424	PRO	Peptide,Mainchain
4	4-R	425	THR	Mainchain
4	4-R	426	GLN	Mainchain
4	4-R	445	GLY	Mainchain
4	4-R	446	ALA	Mainchain
4	4-R	448	ARG	Mainchain
4	4-R	452	ARG	Mainchain
4	4-R	454	TYR	Peptide,Mainchain
4	4-R	456	ASP	Mainchain
4	4-R	457	ALA	Mainchain
4	4-R	459	LEU	Mainchain
4	4-R	462	GLU	Mainchain
4	4-R	463	ILE	Peptide
4	4-R	472	GLU	Mainchain
4	4-R	487	ASP	Mainchain
5	4-S	321	ASN	Mainchain
5	4-S	325	ALA	Mainchain
5	4-S	326	LEU	Peptide,Mainchain
5	4-S	329	GLN	Mainchain
5	4-S	330	LYS	Mainchain
5	4-S	340	ALA	Peptide,Mainchain
5	4-S	341	ALA	Mainchain
5	4-S	343	ALA	Mainchain
6	4-T	374	SER	Mainchain
6	4-T	407	LEU	Mainchain
6	4-T	408	SER	Peptide

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Mol	Chain	Res	Type	Group
6	4-T	493	ALA	Peptide
6	4-T	497	ARG	Mainchain
2	4-U	11	GLN	Mainchain
2	4-U	4	GLU	Mainchain
2	4-U	6	PHE	Mainchain
2	4-U	7	GLY	Mainchain
3	4-V	1448	MET	Mainchain
3	4-V	1449	TRP	Peptide
3	4-V	1450	GLU	Peptide
3	4-V	1484	ASP	Mainchain
3	4-V	1485	ALA	Mainchain
3	4-V	1486	CYS	Mainchain
3	4-V	1489	HIS	Mainchain
3	4-V	1503	ILE	Mainchain
3	4-V	1507	ASP	Mainchain
3	4-V	1508	LYS	Peptide,Mainchain
3	4-V	1509	GLN	Mainchain
3	4-V	1516	LEU	Mainchain
3	4-V	1517	SER	Peptide,Mainchain
3	4-V	1518	ASN	Mainchain
3	4-V	1519	SER	Peptide
3	4-V	1538	SER	Mainchain
3	4-V	1541	THR	Mainchain
3	4-V	1542	PRO	Mainchain
4	4-X	393	GLN	Mainchain
4	4-X	397	ARG	Mainchain
4	4-X	398	LYS	Peptide,Mainchain
4	4-X	399	SER	Peptide
4	4-X	400	GLY	Mainchain
4	4-X	401	TYR	Mainchain
4	4-X	403	ILE	Peptide
4	4-X	419	GLY	Mainchain
4	4-X	420	GLU	Mainchain
4	4-X	421	LEU	Mainchain
4	4-X	422	ASN	Peptide,Mainchain
4	4-X	423	ALA	Mainchain
4	4-X	424	PRO	Peptide,Mainchain
4	4-X	425	THR	Mainchain
4	4-X	426	GLN	Mainchain
4	4-X	445	GLY	Mainchain
4	4-X	446	ALA	Mainchain
4	4-X	448	ARG	Mainchain

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Mol	Chain	Res	Type	Group
4	4-X	452	ARG	Mainchain
4	4-X	454	TYR	Peptide,Mainchain
4	4-X	456	ASP	Mainchain
4	4-X	457	ALA	Mainchain
4	4-X	459	LEU	Mainchain
4	4-X	462	GLU	Mainchain
4	4-X	463	ILE	Peptide
4	4-X	472	GLU	Mainchain
4	4-X	487	ASP	Mainchain
5	4-Y	321	ASN	Mainchain
5	4-Y	325	ALA	Mainchain
5	4-Y	326	LEU	Peptide,Mainchain
5	4-Y	329	GLN	Mainchain
5	4-Y	330	LYS	Mainchain
5	4-Y	340	ALA	Peptide,Mainchain
5	4-Y	341	ALA	Mainchain
5	4-Y	343	ALA	Mainchain
6	4-Z	374	SER	Mainchain
6	4-Z	407	LEU	Mainchain
6	4-Z	408	SER	Peptide
6	4-Z	493	ALA	Peptide
6	4-Z	497	ARG	Mainchain
2	5-C	11	GLN	Mainchain
2	5-C	4	GLU	Mainchain
2	5-C	6	PHE	Mainchain
2	5-C	7	GLY	Mainchain
3	5-D	1448	MET	Mainchain
3	5-D	1449	TRP	Peptide
3	5-D	1450	GLU	Peptide
3	5-D	1484	ASP	Mainchain
3	5-D	1485	ALA	Mainchain
3	5-D	1486	CYS	Mainchain
3	5-D	1489	HIS	Mainchain
3	5-D	1503	ILE	Mainchain
3	5-D	1507	ASP	Mainchain
3	5-D	1508	LYS	Peptide,Mainchain
3	5-D	1509	GLN	Mainchain
3	5-D	1512	TRP	Mainchain
3	5-D	1516	LEU	Mainchain
3	5-D	1517	SER	Peptide,Mainchain
3	5-D	1518	ASN	Mainchain
3	5-D	1519	SER	Peptide

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Mol	Chain	Res	Type	Group
3	5-D	1538	SER	Mainchain
3	5-D	1541	THR	Mainchain
3	5-D	1542	PRO	Mainchain
4	5-F	393	GLN	Mainchain
4	5-F	397	ARG	Mainchain
4	5-F	398	LYS	Peptide,Mainchain
4	5-F	399	SER	Peptide
4	5-F	400	GLY	Mainchain
4	5-F	401	TYR	Mainchain
4	5-F	403	ILE	Peptide
4	5-F	419	GLY	Mainchain
4	5-F	420	GLU	Mainchain
4	5-F	421	LEU	Mainchain
4	5-F	422	ASN	Peptide,Mainchain
4	5-F	423	ALA	Mainchain
4	5-F	424	PRO	Peptide,Mainchain
4	5-F	425	THR	Mainchain
4	5-F	426	GLN	Mainchain
4	5-F	445	GLY	Mainchain
4	5-F	446	ALA	Mainchain
4	5-F	448	ARG	Mainchain
4	5-F	452	ARG	Mainchain
4	5-F	454	TYR	Peptide,Mainchain
4	5-F	456	ASP	Mainchain
4	5-F	457	ALA	Mainchain
4	5-F	459	LEU	Mainchain
4	5-F	462	GLU	Mainchain
4	5-F	463	ILE	Peptide
4	5-F	472	GLU	Mainchain
4	5-F	487	ASP	Mainchain
5	5-G	321	ASN	Mainchain
5	5-G	325	ALA	Mainchain
5	5-G	326	LEU	Peptide,Mainchain
5	5-G	329	GLN	Mainchain
5	5-G	330	LYS	Mainchain
5	5-G	340	ALA	Peptide,Mainchain
5	5-G	341	ALA	Mainchain
5	5-G	343	ALA	Mainchain
6	5-H	374	SER	Mainchain
6	5-H	407	LEU	Mainchain
6	5-H	408	SER	Peptide
6	5-H	493	ALA	Peptide

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Mol	Chain	Res	Type	Group
6	5-H	497	ARG	Mainchain
2	5-I	11	GLN	Mainchain
2	5-I	4	GLU	Mainchain
2	5-I	6	PHE	Mainchain
2	5-I	7	GLY	Mainchain
3	5-J	1448	MET	Mainchain
3	5-J	1449	TRP	Peptide
3	5-J	1450	GLU	Peptide
3	5-J	1484	ASP	Mainchain
3	5-J	1485	ALA	Mainchain
3	5-J	1486	CYS	Mainchain
3	5-J	1489	HIS	Mainchain
3	5-J	1503	ILE	Mainchain
3	5-J	1507	ASP	Mainchain
3	5-J	1508	LYS	Peptide,Mainchain
3	5-J	1509	GLN	Mainchain
3	5-J	1516	LEU	Mainchain
3	5-J	1517	SER	Peptide,Mainchain
3	5-J	1518	ASN	Mainchain
3	5-J	1519	SER	Peptide
3	5-J	1538	SER	Mainchain
3	5-J	1541	THR	Mainchain
3	5-J	1542	PRO	Mainchain
4	5-L	393	GLN	Mainchain
4	5-L	397	ARG	Mainchain
4	5-L	398	LYS	Peptide,Mainchain
4	5-L	399	SER	Peptide
4	5-L	400	GLY	Mainchain
4	5-L	401	TYR	Mainchain
4	5-L	403	ILE	Peptide
4	5-L	419	GLY	Mainchain
4	5-L	420	GLU	Mainchain
4	5-L	421	LEU	Mainchain
4	5-L	422	ASN	Peptide,Mainchain
4	5-L	423	ALA	Mainchain
4	5-L	424	PRO	Peptide,Mainchain
4	5-L	425	THR	Mainchain
4	5-L	426	GLN	Mainchain
4	5-L	445	GLY	Mainchain
4	5-L	446	ALA	Mainchain
4	5-L	448	ARG	Mainchain
4	5-L	452	ARG	Mainchain

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Mol	Chain	Res	Type	Group
4	5-L	454	TYR	Peptide,Mainchain
4	5-L	456	ASP	Mainchain
4	5-L	457	ALA	Mainchain
4	5-L	459	LEU	Mainchain
4	5-L	462	GLU	Mainchain
4	5-L	463	ILE	Peptide
4	5-L	472	GLU	Mainchain
4	5-L	487	ASP	Mainchain
5	5-M	321	ASN	Mainchain
5	5-M	325	ALA	Mainchain
5	5-M	326	LEU	Peptide,Mainchain
5	5-M	329	GLN	Mainchain
5	5-M	330	LYS	Mainchain
5	5-M	340	ALA	Peptide,Mainchain
5	5-M	341	ALA	Mainchain
5	5-M	343	ALA	Mainchain
6	5-N	374	SER	Mainchain
6	5-N	407	LEU	Mainchain
6	5-N	408	SER	Peptide
6	5-N	493	ALA	Peptide
6	5-N	497	ARG	Mainchain
2	5-O	11	GLN	Mainchain
2	5-O	4	GLU	Mainchain
2	5-O	6	PHE	Mainchain
2	5-O	7	GLY	Mainchain
3	5-P	1448	MET	Mainchain
3	5-P	1449	TRP	Peptide
3	5-P	1450	GLU	Peptide
3	5-P	1484	ASP	Mainchain
3	5-P	1485	ALA	Mainchain
3	5-P	1486	CYS	Mainchain
3	5-P	1489	HIS	Mainchain
3	5-P	1503	ILE	Mainchain
3	5-P	1507	ASP	Mainchain
3	5-P	1508	LYS	Peptide,Mainchain
3	5-P	1509	GLN	Mainchain
3	5-P	1512	TRP	Mainchain
3	5-P	1516	LEU	Mainchain
3	5-P	1517	SER	Peptide,Mainchain
3	5-P	1518	ASN	Mainchain
3	5-P	1519	SER	Peptide
3	5-P	1538	SER	Mainchain

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Mol	Chain	Res	Type	Group
3	5-P	1541	THR	Mainchain
3	5-P	1542	PRO	Mainchain
4	5-R	393	GLN	Mainchain
4	5-R	397	ARG	Mainchain
4	5-R	398	LYS	Peptide,Mainchain
4	5-R	399	SER	Peptide
4	5-R	400	GLY	Mainchain
4	5-R	401	TYR	Mainchain
4	5-R	403	ILE	Peptide
4	5-R	419	GLY	Mainchain
4	5-R	420	GLU	Mainchain
4	5-R	421	LEU	Mainchain
4	5-R	422	ASN	Peptide,Mainchain
4	5-R	423	ALA	Mainchain
4	5-R	424	PRO	Peptide,Mainchain
4	5-R	425	THR	Mainchain
4	5-R	426	GLN	Mainchain
4	5-R	445	GLY	Mainchain
4	5-R	446	ALA	Mainchain
4	5-R	448	ARG	Mainchain
4	5-R	452	ARG	Mainchain
4	5-R	454	TYR	Peptide,Mainchain
4	5-R	456	ASP	Mainchain
4	5-R	457	ALA	Mainchain
4	5-R	459	LEU	Mainchain
4	5-R	462	GLU	Mainchain
4	5-R	463	ILE	Peptide
4	5-R	472	GLU	Mainchain
4	5-R	487	ASP	Mainchain
5	5-S	321	ASN	Mainchain
5	5-S	325	ALA	Mainchain
5	5-S	326	LEU	Peptide,Mainchain
5	5-S	329	GLN	Mainchain
5	5-S	330	LYS	Mainchain
5	5-S	340	ALA	Peptide,Mainchain
5	5-S	341	ALA	Mainchain
5	5-S	343	ALA	Mainchain
6	5-T	374	SER	Mainchain
6	5-T	407	LEU	Mainchain
6	5-T	408	SER	Peptide
6	5-T	493	ALA	Peptide
6	5-T	497	ARG	Mainchain

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Mol	Chain	Res	Type	Group
2	5-U	11	GLN	Mainchain
2	5-U	4	GLU	Mainchain
2	5-U	6	PHE	Mainchain
2	5-U	7	GLY	Mainchain
3	5-V	1448	MET	Mainchain
3	5-V	1449	TRP	Peptide
3	5-V	1450	GLU	Peptide
3	5-V	1484	ASP	Mainchain
3	5-V	1485	ALA	Mainchain
3	5-V	1486	CYS	Mainchain
3	5-V	1489	HIS	Mainchain
3	5-V	1503	ILE	Mainchain
3	5-V	1507	ASP	Mainchain
3	5-V	1508	LYS	Peptide,Mainchain
3	5-V	1509	GLN	Mainchain
3	5-V	1516	LEU	Mainchain
3	5-V	1517	SER	Peptide,Mainchain
3	5-V	1518	ASN	Mainchain
3	5-V	1519	SER	Peptide
3	5-V	1538	SER	Mainchain
3	5-V	1541	THR	Mainchain
3	5-V	1542	PRO	Mainchain
4	5-X	393	GLN	Mainchain
4	5-X	397	ARG	Mainchain
4	5-X	398	LYS	Peptide,Mainchain
4	5-X	399	SER	Peptide
4	5-X	400	GLY	Mainchain
4	5-X	401	TYR	Mainchain
4	5-X	403	ILE	Peptide
4	5-X	419	GLY	Mainchain
4	5-X	420	GLU	Mainchain
4	5-X	421	LEU	Mainchain
4	5-X	422	ASN	Peptide,Mainchain
4	5-X	423	ALA	Mainchain
4	5-X	424	PRO	Peptide,Mainchain
4	5-X	425	THR	Mainchain
4	5-X	426	GLN	Mainchain
4	5-X	445	GLY	Mainchain
4	5-X	446	ALA	Mainchain
4	5-X	448	ARG	Mainchain
4	5-X	452	ARG	Mainchain
4	5-X	454	TYR	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
4	5-X	456	ASP	Mainchain
4	5-X	457	ALA	Mainchain
4	5-X	459	LEU	Mainchain
4	5-X	462	GLU	Mainchain
4	5-X	463	ILE	Peptide
4	5-X	472	GLU	Mainchain
4	5-X	487	ASP	Mainchain
5	5-Y	321	ASN	Mainchain
5	5-Y	325	ALA	Mainchain
5	5-Y	326	LEU	Peptide,Mainchain
5	5-Y	329	GLN	Mainchain
5	5-Y	330	LYS	Mainchain
5	5-Y	340	ALA	Peptide,Mainchain
5	5-Y	341	ALA	Mainchain
5	5-Y	343	ALA	Mainchain
6	5-Z	374	SER	Mainchain
6	5-Z	407	LEU	Mainchain
6	5-Z	408	SER	Peptide
6	5-Z	493	ALA	Peptide
6	5-Z	497	ARG	Mainchain
2	6-C	11	GLN	Mainchain
2	6-C	4	GLU	Mainchain
2	6-C	6	PHE	Mainchain
2	6-C	7	GLY	Mainchain
3	6-D	1448	MET	Mainchain
3	6-D	1449	TRP	Peptide
3	6-D	1450	GLU	Peptide
3	6-D	1484	ASP	Mainchain
3	6-D	1485	ALA	Mainchain
3	6-D	1486	CYS	Mainchain
3	6-D	1489	HIS	Mainchain
3	6-D	1503	ILE	Mainchain
3	6-D	1507	ASP	Mainchain
3	6-D	1508	LYS	Peptide,Mainchain
3	6-D	1509	GLN	Mainchain
3	6-D	1516	LEU	Mainchain
3	6-D	1517	SER	Peptide,Mainchain
3	6-D	1518	ASN	Mainchain
3	6-D	1519	SER	Peptide
3	6-D	1538	SER	Mainchain
3	6-D	1541	THR	Mainchain
3	6-D	1542	PRO	Mainchain

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Mol	Chain	Res	Type	Group
4	6-F	393	GLN	Mainchain
4	6-F	397	ARG	Mainchain
4	6-F	398	LYS	Peptide,Mainchain
4	6-F	399	SER	Peptide
4	6-F	400	GLY	Mainchain
4	6-F	401	TYR	Mainchain
4	6-F	403	ILE	Peptide
4	6-F	419	GLY	Mainchain
4	6-F	420	GLU	Mainchain
4	6-F	421	LEU	Mainchain
4	6-F	422	ASN	Peptide,Mainchain
4	6-F	423	ALA	Mainchain
4	6-F	424	PRO	Peptide,Mainchain
4	6-F	425	THR	Mainchain
4	6-F	426	GLN	Mainchain
4	6-F	445	GLY	Mainchain
4	6-F	446	ALA	Mainchain
4	6-F	448	ARG	Mainchain
4	6-F	452	ARG	Mainchain
4	6-F	454	TYR	Peptide,Mainchain
4	6-F	456	ASP	Mainchain
4	6-F	457	ALA	Mainchain
4	6-F	459	LEU	Mainchain
4	6-F	462	GLU	Mainchain
4	6-F	463	ILE	Peptide
4	6-F	472	GLU	Mainchain
4	6-F	487	ASP	Mainchain
5	6-G	321	ASN	Mainchain
5	6-G	325	ALA	Mainchain
5	6-G	326	LEU	Peptide,Mainchain
5	6-G	329	GLN	Mainchain
5	6-G	330	LYS	Mainchain
5	6-G	340	ALA	Peptide,Mainchain
5	6-G	341	ALA	Mainchain
5	6-G	343	ALA	Mainchain
6	6-H	374	SER	Mainchain
6	6-H	407	LEU	Mainchain
6	6-H	408	SER	Peptide
6	6-H	493	ALA	Peptide
6	6-H	497	ARG	Mainchain
2	6-I	11	GLN	Mainchain
2	6-I	4	GLU	Mainchain

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Mol	Chain	Res	Type	Group
2	6-I	6	PHE	Mainchain
2	6-I	7	GLY	Mainchain
3	6-J	1448	MET	Mainchain
3	6-J	1449	TRP	Peptide
3	6-J	1450	GLU	Peptide
3	6-J	1484	ASP	Mainchain
3	6-J	1485	ALA	Mainchain
3	6-J	1486	CYS	Mainchain
3	6-J	1489	HIS	Mainchain
3	6-J	1503	ILE	Mainchain
3	6-J	1507	ASP	Mainchain
3	6-J	1508	LYS	Peptide,Mainchain
3	6-J	1509	GLN	Mainchain
3	6-J	1516	LEU	Mainchain
3	6-J	1517	SER	Peptide,Mainchain
3	6-J	1518	ASN	Mainchain
3	6-J	1519	SER	Peptide
3	6-J	1538	SER	Mainchain
3	6-J	1541	THR	Mainchain
3	6-J	1542	PRO	Mainchain
4	6-L	393	GLN	Mainchain
4	6-L	397	ARG	Mainchain
4	6-L	398	LYS	Peptide,Mainchain
4	6-L	399	SER	Peptide
4	6-L	400	GLY	Mainchain
4	6-L	401	TYR	Mainchain
4	6-L	403	ILE	Peptide
4	6-L	419	GLY	Mainchain
4	6-L	420	GLU	Mainchain
4	6-L	421	LEU	Mainchain
4	6-L	422	ASN	Peptide,Mainchain
4	6-L	423	ALA	Mainchain
4	6-L	424	PRO	Peptide,Mainchain
4	6-L	425	THR	Mainchain
4	6-L	426	GLN	Mainchain
4	6-L	445	GLY	Mainchain
4	6-L	446	ALA	Mainchain
4	6-L	448	ARG	Mainchain
4	6-L	452	ARG	Mainchain
4	6-L	454	TYR	Peptide,Mainchain
4	6-L	456	ASP	Mainchain
4	6-L	457	ALA	Mainchain

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Mol	Chain	Res	Type	Group
4	6-L	459	LEU	Mainchain
4	6-L	462	GLU	Mainchain
4	6-L	463	ILE	Peptide
4	6-L	472	GLU	Mainchain
4	6-L	487	ASP	Mainchain
5	6-M	321	ASN	Mainchain
5	6-M	325	ALA	Mainchain
5	6-M	326	LEU	Peptide,Mainchain
5	6-M	329	GLN	Mainchain
5	6-M	330	LYS	Mainchain
5	6-M	340	ALA	Peptide,Mainchain
5	6-M	341	ALA	Mainchain
5	6-M	343	ALA	Mainchain
6	6-N	374	SER	Mainchain
6	6-N	407	LEU	Mainchain
6	6-N	408	SER	Peptide
6	6-N	493	ALA	Peptide
6	6-N	497	ARG	Mainchain
2	6-O	11	GLN	Mainchain
2	6-O	4	GLU	Mainchain
2	6-O	6	PHE	Mainchain
2	6-O	7	GLY	Mainchain
3	6-P	1448	MET	Mainchain
3	6-P	1449	TRP	Peptide
3	6-P	1450	GLU	Peptide
3	6-P	1484	ASP	Mainchain
3	6-P	1485	ALA	Mainchain
3	6-P	1486	CYS	Mainchain
3	6-P	1489	HIS	Mainchain
3	6-P	1503	ILE	Mainchain
3	6-P	1507	ASP	Mainchain
3	6-P	1508	LYS	Peptide,Mainchain
3	6-P	1509	GLN	Mainchain
3	6-P	1512	TRP	Mainchain
3	6-P	1516	LEU	Mainchain
3	6-P	1517	SER	Peptide,Mainchain
3	6-P	1518	ASN	Mainchain
3	6-P	1519	SER	Peptide
3	6-P	1538	SER	Mainchain
3	6-P	1541	THR	Mainchain
3	6-P	1542	PRO	Mainchain
4	6-R	393	GLN	Mainchain

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Mol	Chain	Res	Type	Group
4	6-R	397	ARG	Mainchain
4	6-R	398	LYS	Peptide,Mainchain
4	6-R	399	SER	Peptide
4	6-R	400	GLY	Mainchain
4	6-R	401	TYR	Mainchain
4	6-R	403	ILE	Peptide
4	6-R	419	GLY	Mainchain
4	6-R	420	GLU	Mainchain
4	6-R	421	LEU	Mainchain
4	6-R	422	ASN	Peptide,Mainchain
4	6-R	423	ALA	Mainchain
4	6-R	424	PRO	Peptide,Mainchain
4	6-R	425	THR	Mainchain
4	6-R	426	GLN	Mainchain
4	6-R	445	GLY	Mainchain
4	6-R	446	ALA	Mainchain
4	6-R	448	ARG	Mainchain
4	6-R	452	ARG	Mainchain
4	6-R	454	TYR	Peptide,Mainchain
4	6-R	456	ASP	Mainchain
4	6-R	457	ALA	Mainchain
4	6-R	459	LEU	Mainchain
4	6-R	462	GLU	Mainchain
4	6-R	463	ILE	Peptide
4	6-R	472	GLU	Mainchain
4	6-R	487	ASP	Mainchain
5	6-S	321	ASN	Mainchain
5	6-S	325	ALA	Mainchain
5	6-S	326	LEU	Peptide,Mainchain
5	6-S	329	GLN	Mainchain
5	6-S	330	LYS	Mainchain
5	6-S	340	ALA	Peptide,Mainchain
5	6-S	341	ALA	Mainchain
5	6-S	343	ALA	Mainchain
6	6-T	374	SER	Mainchain
6	6-T	407	LEU	Mainchain
6	6-T	408	SER	Peptide
6	6-T	493	ALA	Peptide
6	6-T	497	ARG	Mainchain
2	6-U	11	GLN	Mainchain
2	6-U	4	GLU	Mainchain
2	6-U	6	PHE	Mainchain

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Mol	Chain	Res	Type	Group
2	6-U	7	GLY	Mainchain
3	6-V	1448	MET	Mainchain
3	6-V	1449	TRP	Peptide
3	6-V	1450	GLU	Peptide
3	6-V	1484	ASP	Mainchain
3	6-V	1485	ALA	Mainchain
3	6-V	1486	CYS	Mainchain
3	6-V	1489	HIS	Mainchain
3	6-V	1503	ILE	Mainchain
3	6-V	1507	ASP	Mainchain
3	6-V	1508	LYS	Peptide,Mainchain
3	6-V	1509	GLN	Mainchain
3	6-V	1516	LEU	Mainchain
3	6-V	1517	SER	Peptide,Mainchain
3	6-V	1518	ASN	Mainchain
3	6-V	1519	SER	Peptide
3	6-V	1538	SER	Mainchain
3	6-V	1541	THR	Mainchain
3	6-V	1542	PRO	Mainchain
4	6-X	393	GLN	Mainchain
4	6-X	397	ARG	Mainchain
4	6-X	398	LYS	Peptide,Mainchain
4	6-X	399	SER	Peptide
4	6-X	400	GLY	Mainchain
4	6-X	401	TYR	Mainchain
4	6-X	403	ILE	Peptide
4	6-X	419	GLY	Mainchain
4	6-X	420	GLU	Mainchain
4	6-X	421	LEU	Mainchain
4	6-X	422	ASN	Peptide,Mainchain
4	6-X	423	ALA	Mainchain
4	6-X	424	PRO	Peptide,Mainchain
4	6-X	425	THR	Mainchain
4	6-X	426	GLN	Mainchain
4	6-X	445	GLY	Mainchain
4	6-X	446	ALA	Mainchain
4	6-X	448	ARG	Mainchain
4	6-X	452	ARG	Mainchain
4	6-X	454	TYR	Peptide,Mainchain
4	6-X	456	ASP	Mainchain
4	6-X	457	ALA	Mainchain
4	6-X	459	LEU	Mainchain

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Mol	Chain	Res	Type	Group
4	6-X	462	GLU	Mainchain
4	6-X	463	ILE	Peptide
4	6-X	472	GLU	Mainchain
4	6-X	487	ASP	Mainchain
5	6-Y	321	ASN	Mainchain
5	6-Y	325	ALA	Mainchain
5	6-Y	326	LEU	Peptide,Mainchain
5	6-Y	329	GLN	Mainchain
5	6-Y	330	LYS	Mainchain
5	6-Y	340	ALA	Peptide,Mainchain
5	6-Y	341	ALA	Mainchain
5	6-Y	343	ALA	Mainchain
6	6-Z	374	SER	Mainchain
6	6-Z	407	LEU	Mainchain
6	6-Z	408	SER	Peptide
6	6-Z	493	ALA	Peptide
6	6-Z	497	ARG	Mainchain
2	7-C	11	GLN	Mainchain
2	7-C	4	GLU	Mainchain
2	7-C	6	PHE	Mainchain
2	7-C	7	GLY	Mainchain
3	7-D	1448	MET	Mainchain
3	7-D	1449	TRP	Peptide
3	7-D	1450	GLU	Peptide
3	7-D	1484	ASP	Mainchain
3	7-D	1485	ALA	Mainchain
3	7-D	1486	CYS	Mainchain
3	7-D	1489	HIS	Mainchain
3	7-D	1503	ILE	Mainchain
3	7-D	1507	ASP	Mainchain
3	7-D	1508	LYS	Peptide,Mainchain
3	7-D	1509	GLN	Mainchain
3	7-D	1512	TRP	Mainchain
3	7-D	1516	LEU	Mainchain
3	7-D	1517	SER	Peptide,Mainchain
3	7-D	1518	ASN	Mainchain
3	7-D	1519	SER	Peptide
3	7-D	1538	SER	Mainchain
3	7-D	1541	THR	Mainchain
3	7-D	1542	PRO	Mainchain
4	7-F	393	GLN	Mainchain
4	7-F	397	ARG	Mainchain

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Mol	Chain	Res	Type	Group
4	7-F	398	LYS	Peptide,Mainchain
4	7-F	399	SER	Peptide
4	7-F	400	GLY	Mainchain
4	7-F	401	TYR	Mainchain
4	7-F	403	ILE	Peptide
4	7-F	419	GLY	Mainchain
4	7-F	420	GLU	Mainchain
4	7-F	421	LEU	Mainchain
4	7-F	422	ASN	Peptide,Mainchain
4	7-F	423	ALA	Mainchain
4	7-F	424	PRO	Peptide,Mainchain
4	7-F	425	THR	Mainchain
4	7-F	426	GLN	Mainchain
4	7-F	445	GLY	Mainchain
4	7-F	446	ALA	Mainchain
4	7-F	448	ARG	Mainchain
4	7-F	452	ARG	Mainchain
4	7-F	454	TYR	Peptide,Mainchain
4	7-F	456	ASP	Mainchain
4	7-F	457	ALA	Mainchain
4	7-F	459	LEU	Mainchain
4	7-F	462	GLU	Mainchain
4	7-F	463	ILE	Peptide
4	7-F	472	GLU	Mainchain
4	7-F	487	ASP	Mainchain
5	7-G	321	ASN	Mainchain
5	7-G	325	ALA	Mainchain
5	7-G	326	LEU	Peptide,Mainchain
5	7-G	329	GLN	Mainchain
5	7-G	330	LYS	Mainchain
5	7-G	340	ALA	Peptide,Mainchain
5	7-G	341	ALA	Mainchain
5	7-G	343	ALA	Mainchain
6	7-H	374	SER	Mainchain
6	7-H	407	LEU	Mainchain
6	7-H	408	SER	Peptide
6	7-H	493	ALA	Peptide
6	7-H	497	ARG	Mainchain
2	7-I	11	GLN	Mainchain
2	7-I	4	GLU	Mainchain
2	7-I	6	PHE	Mainchain
2	7-I	7	GLY	Mainchain

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Mol	Chain	Res	Type	Group
3	7-J	1448	MET	Mainchain
3	7-J	1449	TRP	Peptide
3	7-J	1450	GLU	Peptide
3	7-J	1484	ASP	Mainchain
3	7-J	1485	ALA	Mainchain
3	7-J	1486	CYS	Mainchain
3	7-J	1489	HIS	Mainchain
3	7-J	1503	ILE	Mainchain
3	7-J	1507	ASP	Mainchain
3	7-J	1508	LYS	Peptide,Mainchain
3	7-J	1509	GLN	Mainchain
3	7-J	1516	LEU	Mainchain
3	7-J	1517	SER	Peptide,Mainchain
3	7-J	1518	ASN	Mainchain
3	7-J	1519	SER	Peptide
3	7-J	1538	SER	Mainchain
3	7-J	1541	THR	Mainchain
3	7-J	1542	PRO	Mainchain
4	7-L	393	GLN	Mainchain
4	7-L	397	ARG	Mainchain
4	7-L	398	LYS	Peptide,Mainchain
4	7-L	399	SER	Peptide
4	7-L	400	GLY	Mainchain
4	7-L	401	TYR	Mainchain
4	7-L	403	ILE	Peptide
4	7-L	419	GLY	Mainchain
4	7-L	420	GLU	Mainchain
4	7-L	421	LEU	Mainchain
4	7-L	422	ASN	Peptide,Mainchain
4	7-L	423	ALA	Mainchain
4	7-L	424	PRO	Peptide,Mainchain
4	7-L	425	THR	Mainchain
4	7-L	426	GLN	Mainchain
4	7-L	445	GLY	Mainchain
4	7-L	446	ALA	Mainchain
4	7-L	448	ARG	Mainchain
4	7-L	452	ARG	Mainchain
4	7-L	454	TYR	Peptide,Mainchain
4	7-L	456	ASP	Mainchain
4	7-L	457	ALA	Mainchain
4	7-L	459	LEU	Mainchain
4	7-L	462	GLU	Mainchain

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Mol	Chain	Res	Type	Group
4	7-L	463	ILE	Peptide
4	7-L	472	GLU	Mainchain
4	7-L	487	ASP	Mainchain
5	7-M	321	ASN	Mainchain
5	7-M	325	ALA	Mainchain
5	7-M	326	LEU	Peptide,Mainchain
5	7-M	329	GLN	Mainchain
5	7-M	330	LYS	Mainchain
5	7-M	340	ALA	Peptide,Mainchain
5	7-M	341	ALA	Mainchain
5	7-M	343	ALA	Mainchain
6	7-N	374	SER	Mainchain
6	7-N	407	LEU	Mainchain
6	7-N	408	SER	Peptide
6	7-N	493	ALA	Peptide
6	7-N	497	ARG	Mainchain
2	7-O	11	GLN	Mainchain
2	7-O	4	GLU	Mainchain
2	7-O	6	PHE	Mainchain
2	7-O	7	GLY	Mainchain
3	7-P	1448	MET	Mainchain
3	7-P	1449	TRP	Peptide
3	7-P	1450	GLU	Peptide
3	7-P	1484	ASP	Mainchain
3	7-P	1485	ALA	Mainchain
3	7-P	1486	CYS	Mainchain
3	7-P	1489	HIS	Mainchain
3	7-P	1503	ILE	Mainchain
3	7-P	1507	ASP	Mainchain
3	7-P	1508	LYS	Peptide,Mainchain
3	7-P	1509	GLN	Mainchain
3	7-P	1512	TRP	Mainchain
3	7-P	1516	LEU	Mainchain
3	7-P	1517	SER	Peptide,Mainchain
3	7-P	1518	ASN	Mainchain
3	7-P	1519	SER	Peptide
3	7-P	1538	SER	Mainchain
3	7-P	1541	THR	Mainchain
3	7-P	1542	PRO	Mainchain
4	7-R	393	GLN	Mainchain
4	7-R	397	ARG	Mainchain
4	7-R	398	LYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
4	7-R	399	SER	Peptide
4	7-R	400	GLY	Mainchain
4	7-R	401	TYR	Mainchain
4	7-R	403	ILE	Peptide
4	7-R	419	GLY	Mainchain
4	7-R	420	GLU	Mainchain
4	7-R	421	LEU	Mainchain
4	7-R	422	ASN	Peptide,Mainchain
4	7-R	423	ALA	Mainchain
4	7-R	424	PRO	Peptide,Mainchain
4	7-R	425	THR	Mainchain
4	7-R	426	GLN	Mainchain
4	7-R	445	GLY	Mainchain
4	7-R	446	ALA	Mainchain
4	7-R	448	ARG	Mainchain
4	7-R	452	ARG	Mainchain
4	7-R	454	TYR	Peptide,Mainchain
4	7-R	456	ASP	Mainchain
4	7-R	457	ALA	Mainchain
4	7-R	459	LEU	Mainchain
4	7-R	462	GLU	Mainchain
4	7-R	463	ILE	Peptide
4	7-R	472	GLU	Mainchain
4	7-R	487	ASP	Mainchain
5	7-S	321	ASN	Mainchain
5	7-S	325	ALA	Mainchain
5	7-S	326	LEU	Peptide,Mainchain
5	7-S	329	GLN	Mainchain
5	7-S	330	LYS	Mainchain
5	7-S	340	ALA	Peptide,Mainchain
5	7-S	341	ALA	Mainchain
5	7-S	343	ALA	Mainchain
6	7-T	374	SER	Mainchain
6	7-T	407	LEU	Mainchain
6	7-T	408	SER	Peptide
6	7-T	493	ALA	Peptide
6	7-T	497	ARG	Mainchain
2	7-U	11	GLN	Mainchain
2	7-U	4	GLU	Mainchain
2	7-U	6	PHE	Mainchain
2	7-U	7	GLY	Mainchain
3	7-V	1448	MET	Mainchain

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Mol	Chain	Res	Type	Group
3	7-V	1449	TRP	Peptide
3	7-V	1450	GLU	Peptide
3	7-V	1484	ASP	Mainchain
3	7-V	1485	ALA	Mainchain
3	7-V	1486	CYS	Mainchain
3	7-V	1489	HIS	Mainchain
3	7-V	1503	ILE	Mainchain
3	7-V	1507	ASP	Mainchain
3	7-V	1508	LYS	Peptide,Mainchain
3	7-V	1509	GLN	Mainchain
3	7-V	1516	LEU	Mainchain
3	7-V	1517	SER	Peptide,Mainchain
3	7-V	1518	ASN	Mainchain
3	7-V	1519	SER	Peptide
3	7-V	1538	SER	Mainchain
3	7-V	1541	THR	Mainchain
3	7-V	1542	PRO	Mainchain
4	7-X	393	GLN	Mainchain
4	7-X	397	ARG	Mainchain
4	7-X	398	LYS	Peptide,Mainchain
4	7-X	399	SER	Peptide
4	7-X	400	GLY	Mainchain
4	7-X	401	TYR	Mainchain
4	7-X	403	ILE	Peptide
4	7-X	419	GLY	Mainchain
4	7-X	420	GLU	Mainchain
4	7-X	421	LEU	Mainchain
4	7-X	422	ASN	Peptide,Mainchain
4	7-X	423	ALA	Mainchain
4	7-X	424	PRO	Peptide,Mainchain
4	7-X	425	THR	Mainchain
4	7-X	426	GLN	Mainchain
4	7-X	445	GLY	Mainchain
4	7-X	446	ALA	Mainchain
4	7-X	448	ARG	Mainchain
4	7-X	452	ARG	Mainchain
4	7-X	454	TYR	Peptide,Mainchain
4	7-X	456	ASP	Mainchain
4	7-X	457	ALA	Mainchain
4	7-X	459	LEU	Mainchain
4	7-X	462	GLU	Mainchain
4	7-X	463	ILE	Peptide

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Mol	Chain	Res	Type	Group
4	7-X	472	GLU	Mainchain
4	7-X	487	ASP	Mainchain
5	7-Y	321	ASN	Mainchain
5	7-Y	325	ALA	Mainchain
5	7-Y	326	LEU	Peptide,Mainchain
5	7-Y	329	GLN	Mainchain
5	7-Y	330	LYS	Mainchain
5	7-Y	340	ALA	Peptide,Mainchain
5	7-Y	341	ALA	Mainchain
5	7-Y	343	ALA	Mainchain
6	7-Z	374	SER	Mainchain
6	7-Z	407	LEU	Mainchain
6	7-Z	408	SER	Peptide
6	7-Z	493	ALA	Peptide
6	7-Z	497	ARG	Mainchain
2	8-C	11	GLN	Mainchain
2	8-C	4	GLU	Mainchain
2	8-C	6	PHE	Mainchain
2	8-C	7	GLY	Mainchain
3	8-D	1448	MET	Mainchain
3	8-D	1449	TRP	Peptide
3	8-D	1450	GLU	Peptide
3	8-D	1484	ASP	Mainchain
3	8-D	1485	ALA	Mainchain
3	8-D	1486	CYS	Mainchain
3	8-D	1489	HIS	Mainchain
3	8-D	1503	ILE	Mainchain
3	8-D	1507	ASP	Mainchain
3	8-D	1508	LYS	Peptide,Mainchain
3	8-D	1509	GLN	Mainchain
3	8-D	1516	LEU	Mainchain
3	8-D	1517	SER	Peptide,Mainchain
3	8-D	1518	ASN	Mainchain
3	8-D	1519	SER	Peptide
3	8-D	1538	SER	Mainchain
3	8-D	1541	THR	Mainchain
3	8-D	1542	PRO	Mainchain
4	8-F	393	GLN	Mainchain
4	8-F	397	ARG	Mainchain
4	8-F	398	LYS	Peptide,Mainchain
4	8-F	399	SER	Peptide
4	8-F	400	GLY	Mainchain

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Mol	Chain	Res	Type	Group
4	8-F	401	TYR	Mainchain
4	8-F	403	ILE	Peptide
4	8-F	419	GLY	Mainchain
4	8-F	420	GLU	Mainchain
4	8-F	421	LEU	Mainchain
4	8-F	422	ASN	Peptide,Mainchain
4	8-F	423	ALA	Mainchain
4	8-F	424	PRO	Peptide,Mainchain
4	8-F	425	THR	Mainchain
4	8-F	426	GLN	Mainchain
4	8-F	445	GLY	Mainchain
4	8-F	446	ALA	Mainchain
4	8-F	448	ARG	Mainchain
4	8-F	452	ARG	Mainchain
4	8-F	454	TYR	Peptide,Mainchain
4	8-F	456	ASP	Mainchain
4	8-F	457	ALA	Mainchain
4	8-F	459	LEU	Mainchain
4	8-F	462	GLU	Mainchain
4	8-F	463	ILE	Peptide
4	8-F	472	GLU	Mainchain
4	8-F	487	ASP	Mainchain
5	8-G	321	ASN	Mainchain
5	8-G	325	ALA	Mainchain
5	8-G	326	LEU	Peptide,Mainchain
5	8-G	329	GLN	Mainchain
5	8-G	330	LYS	Mainchain
5	8-G	340	ALA	Peptide,Mainchain
5	8-G	341	ALA	Mainchain
5	8-G	343	ALA	Mainchain
6	8-H	374	SER	Mainchain
6	8-H	407	LEU	Mainchain
6	8-H	408	SER	Peptide
6	8-H	493	ALA	Peptide
6	8-H	497	ARG	Mainchain
2	8-I	11	GLN	Mainchain
2	8-I	4	GLU	Mainchain
2	8-I	6	PHE	Mainchain
2	8-I	7	GLY	Mainchain
3	8-J	1448	MET	Mainchain
3	8-J	1449	TRP	Peptide
3	8-J	1450	GLU	Peptide

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Mol	Chain	Res	Type	Group
3	8-J	1484	ASP	Mainchain
3	8-J	1485	ALA	Mainchain
3	8-J	1486	CYS	Mainchain
3	8-J	1489	HIS	Mainchain
3	8-J	1503	ILE	Mainchain
3	8-J	1507	ASP	Mainchain
3	8-J	1508	LYS	Peptide,Mainchain
3	8-J	1509	GLN	Mainchain
3	8-J	1516	LEU	Mainchain
3	8-J	1517	SER	Peptide,Mainchain
3	8-J	1518	ASN	Mainchain
3	8-J	1519	SER	Peptide
3	8-J	1538	SER	Mainchain
3	8-J	1541	THR	Mainchain
3	8-J	1542	PRO	Mainchain
4	8-L	393	GLN	Mainchain
4	8-L	397	ARG	Mainchain
4	8-L	398	LYS	Peptide,Mainchain
4	8-L	399	SER	Peptide
4	8-L	400	GLY	Mainchain
4	8-L	401	TYR	Mainchain
4	8-L	403	ILE	Peptide
4	8-L	419	GLY	Mainchain
4	8-L	420	GLU	Mainchain
4	8-L	421	LEU	Mainchain
4	8-L	422	ASN	Peptide,Mainchain
4	8-L	423	ALA	Mainchain
4	8-L	424	PRO	Peptide,Mainchain
4	8-L	425	THR	Mainchain
4	8-L	426	GLN	Mainchain
4	8-L	445	GLY	Mainchain
4	8-L	446	ALA	Mainchain
4	8-L	448	ARG	Mainchain
4	8-L	452	ARG	Mainchain
4	8-L	454	TYR	Peptide,Mainchain
4	8-L	456	ASP	Mainchain
4	8-L	457	ALA	Mainchain
4	8-L	459	LEU	Mainchain
4	8-L	462	GLU	Mainchain
4	8-L	463	ILE	Peptide
4	8-L	472	GLU	Mainchain
4	8-L	487	ASP	Mainchain

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Mol	Chain	Res	Type	Group
5	8-M	321	ASN	Mainchain
5	8-M	325	ALA	Mainchain
5	8-M	326	LEU	Peptide,Mainchain
5	8-M	329	GLN	Mainchain
5	8-M	330	LYS	Mainchain
5	8-M	340	ALA	Peptide,Mainchain
5	8-M	341	ALA	Mainchain
5	8-M	343	ALA	Mainchain
6	8-N	374	SER	Mainchain
6	8-N	407	LEU	Mainchain
6	8-N	408	SER	Peptide
6	8-N	493	ALA	Peptide
6	8-N	497	ARG	Mainchain
2	8-O	11	GLN	Mainchain
2	8-O	4	GLU	Mainchain
2	8-O	6	PHE	Mainchain
2	8-O	7	GLY	Mainchain
3	8-P	1448	MET	Mainchain
3	8-P	1449	TRP	Peptide
3	8-P	1450	GLU	Peptide
3	8-P	1484	ASP	Mainchain
3	8-P	1485	ALA	Mainchain
3	8-P	1486	CYS	Mainchain
3	8-P	1489	HIS	Mainchain
3	8-P	1503	ILE	Mainchain
3	8-P	1507	ASP	Mainchain
3	8-P	1508	LYS	Peptide,Mainchain
3	8-P	1509	GLN	Mainchain
3	8-P	1512	TRP	Mainchain
3	8-P	1516	LEU	Mainchain
3	8-P	1517	SER	Peptide,Mainchain
3	8-P	1518	ASN	Mainchain
3	8-P	1519	SER	Peptide
3	8-P	1538	SER	Mainchain
3	8-P	1541	THR	Mainchain
3	8-P	1542	PRO	Mainchain
4	8-R	393	GLN	Mainchain
4	8-R	397	ARG	Mainchain
4	8-R	398	LYS	Peptide,Mainchain
4	8-R	399	SER	Peptide
4	8-R	400	GLY	Mainchain
4	8-R	401	TYR	Mainchain

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Mol	Chain	Res	Type	Group
4	8-R	403	ILE	Peptide
4	8-R	419	GLY	Mainchain
4	8-R	420	GLU	Mainchain
4	8-R	421	LEU	Mainchain
4	8-R	422	ASN	Peptide,Mainchain
4	8-R	423	ALA	Mainchain
4	8-R	424	PRO	Peptide,Mainchain
4	8-R	425	THR	Mainchain
4	8-R	426	GLN	Mainchain
4	8-R	445	GLY	Mainchain
4	8-R	446	ALA	Mainchain
4	8-R	448	ARG	Mainchain
4	8-R	452	ARG	Mainchain
4	8-R	454	TYR	Peptide,Mainchain
4	8-R	456	ASP	Mainchain
4	8-R	457	ALA	Mainchain
4	8-R	459	LEU	Mainchain
4	8-R	462	GLU	Mainchain
4	8-R	463	ILE	Peptide
4	8-R	472	GLU	Mainchain
4	8-R	487	ASP	Mainchain
5	8-S	321	ASN	Mainchain
5	8-S	325	ALA	Mainchain
5	8-S	326	LEU	Peptide,Mainchain
5	8-S	329	GLN	Mainchain
5	8-S	330	LYS	Mainchain
5	8-S	340	ALA	Peptide,Mainchain
5	8-S	341	ALA	Mainchain
5	8-S	343	ALA	Mainchain
6	8-T	374	SER	Mainchain
6	8-T	407	LEU	Mainchain
6	8-T	408	SER	Peptide
6	8-T	493	ALA	Peptide
6	8-T	497	ARG	Mainchain
2	8-U	11	GLN	Mainchain
2	8-U	4	GLU	Mainchain
2	8-U	6	PHE	Mainchain
2	8-U	7	GLY	Mainchain
3	8-V	1448	MET	Mainchain
3	8-V	1449	TRP	Peptide
3	8-V	1450	GLU	Peptide
3	8-V	1484	ASP	Mainchain

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Mol	Chain	Res	Type	Group
3	8-V	1485	ALA	Mainchain
3	8-V	1486	CYS	Mainchain
3	8-V	1489	HIS	Mainchain
3	8-V	1503	ILE	Mainchain
3	8-V	1507	ASP	Mainchain
3	8-V	1508	LYS	Peptide,Mainchain
3	8-V	1509	GLN	Mainchain
3	8-V	1516	LEU	Mainchain
3	8-V	1517	SER	Peptide,Mainchain
3	8-V	1518	ASN	Mainchain
3	8-V	1519	SER	Peptide
3	8-V	1538	SER	Mainchain
3	8-V	1541	THR	Mainchain
3	8-V	1542	PRO	Mainchain
4	8-X	393	GLN	Mainchain
4	8-X	397	ARG	Mainchain
4	8-X	398	LYS	Peptide,Mainchain
4	8-X	399	SER	Peptide
4	8-X	400	GLY	Mainchain
4	8-X	401	TYR	Mainchain
4	8-X	403	ILE	Peptide
4	8-X	419	GLY	Mainchain
4	8-X	420	GLU	Mainchain
4	8-X	421	LEU	Mainchain
4	8-X	422	ASN	Peptide,Mainchain
4	8-X	423	ALA	Mainchain
4	8-X	424	PRO	Peptide,Mainchain
4	8-X	425	THR	Mainchain
4	8-X	426	GLN	Mainchain
4	8-X	445	GLY	Mainchain
4	8-X	446	ALA	Mainchain
4	8-X	448	ARG	Mainchain
4	8-X	452	ARG	Mainchain
4	8-X	454	TYR	Peptide,Mainchain
4	8-X	456	ASP	Mainchain
4	8-X	457	ALA	Mainchain
4	8-X	459	LEU	Mainchain
4	8-X	462	GLU	Mainchain
4	8-X	463	ILE	Peptide
4	8-X	472	GLU	Mainchain
4	8-X	487	ASP	Mainchain
5	8-Y	321	ASN	Mainchain

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Mol	Chain	Res	Type	Group
5	8-Y	325	ALA	Mainchain
5	8-Y	326	LEU	Peptide,Mainchain
5	8-Y	329	GLN	Mainchain
5	8-Y	330	LYS	Mainchain
5	8-Y	340	ALA	Peptide,Mainchain
5	8-Y	341	ALA	Mainchain
5	8-Y	343	ALA	Mainchain
6	8-Z	374	SER	Mainchain
6	8-Z	407	LEU	Mainchain
6	8-Z	408	SER	Peptide
6	8-Z	493	ALA	Peptide
6	8-Z	497	ARG	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	3214	0	1424	27	0
1	1-B	3214	0	1424	28	0
1	1-E	5366	0	2362	98	0
1	1-K	5366	0	2360	82	0
1	1-Q	5366	0	2357	178	0
1	1-W	5366	0	2364	65	0
1	2-A	3214	0	1424	26	0
1	2-B	3214	0	1424	28	0
1	2-E	5366	0	2363	85	0
1	2-K	5366	0	2359	158	0
1	2-Q	5366	0	2363	89	0
1	2-W	5366	0	2361	163	0
1	3-A	3214	0	1424	26	0
1	3-B	3214	0	1424	28	0
1	3-E	5366	0	2363	85	0
1	3-K	5366	0	2359	158	0
1	3-Q	5366	0	2363	89	0
1	3-W	5366	0	2361	163	0
1	4-A	3214	0	1424	26	0
1	4-B	3214	0	1424	28	0
1	4-E	5366	0	2363	85	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4-K	5366	0	2359	158	0
1	4-Q	5366	0	2363	89	0
1	4-W	5366	0	2361	163	0
1	5-A	3214	0	1424	26	0
1	5-B	3214	0	1424	28	0
1	5-E	5366	0	2363	85	0
1	5-K	5366	0	2359	158	0
1	5-Q	5366	0	2363	89	0
1	5-W	5366	0	2361	163	0
1	6-A	3214	0	0	0	0
1	6-B	3214	0	0	0	0
1	6-E	5366	0	0	0	0
1	6-K	5366	0	0	0	0
1	6-Q	5366	0	0	0	0
1	6-W	5366	0	0	0	0
1	7-A	3214	0	1424	26	0
1	7-B	3214	0	1424	28	0
1	7-E	5366	0	2363	95	0
1	7-K	5366	0	2359	139	0
1	7-Q	5366	0	2363	95	0
1	7-W	5366	0	2361	141	0
1	8-A	3214	0	1424	26	0
1	8-B	3214	0	1424	28	0
1	8-E	5366	0	2363	95	0
1	8-K	5366	0	2359	139	0
1	8-Q	5366	0	2363	95	0
1	8-W	5366	0	2361	141	0
2	1-C	3152	0	1403	163	0
2	1-I	3152	0	1408	80	0
2	1-O	3152	0	1405	94	0
2	1-U	3152	0	1406	69	0
2	2-C	3152	0	1403	178	0
2	2-I	3152	0	1405	67	0
2	2-O	3152	0	1403	178	0
2	2-U	3152	0	1405	68	0
2	3-C	3152	0	1403	178	0
2	3-I	3152	0	1405	67	0
2	3-O	3152	0	1403	178	0
2	3-U	3152	0	1405	67	0
2	4-C	3152	0	1403	178	0
2	4-I	3152	0	1405	67	0
2	4-O	3152	0	1403	178	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	4-U	3152	0	1405	68	0
2	5-C	3152	0	1403	180	0
2	5-I	3152	0	1405	67	0
2	5-O	3152	0	1403	180	0
2	5-U	3152	0	1405	68	0
2	6-C	3152	0	0	0	0
2	6-I	3152	0	0	0	0
2	6-O	3152	0	0	0	0
2	6-U	3152	0	0	0	0
2	7-C	3152	0	1401	193	0
2	7-I	3152	0	1405	67	0
2	7-O	3152	0	1401	194	0
2	7-U	3152	0	1405	68	0
2	8-C	3152	0	1401	191	0
2	8-I	3152	0	1405	67	0
2	8-O	3152	0	1401	192	0
2	8-U	3152	0	1405	67	0
3	1-D	5094	0	2272	130	0
3	1-J	5094	0	2271	142	0
3	1-P	5094	0	2273	87	0
3	1-V	5094	0	2267	210	0
3	2-D	5094	0	2270	163	0
3	2-J	5094	0	2272	108	0
3	2-P	5094	0	2270	193	0
3	2-V	5094	0	2272	112	0
3	3-D	5094	0	2270	163	0
3	3-J	5094	0	2272	108	0
3	3-P	5094	0	2270	193	0
3	3-V	5094	0	2272	112	0
3	4-D	5094	0	2270	162	0
3	4-J	5094	0	2272	108	0
3	4-P	5094	0	2270	162	0
3	4-V	5094	0	2272	112	0
3	5-D	5094	0	2273	102	0
3	5-J	5094	0	2272	108	0
3	5-P	5094	0	2273	104	0
3	5-V	5094	0	2272	112	0
3	6-D	5094	0	0	0	0
3	6-J	5094	0	0	0	0
3	6-P	5094	0	0	0	0
3	6-V	5094	0	0	0	0
3	7-D	5094	0	2273	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	7-J	5094	0	2271	122	0
3	7-P	5094	0	2273	104	0
3	7-V	5094	0	2271	125	0
3	8-D	5094	0	2270	162	0
3	8-J	5094	0	2271	122	0
3	8-P	5094	0	2270	162	0
3	8-V	5094	0	2271	125	0
4	1-F	1658	0	715	180	0
4	1-L	1658	0	715	178	0
4	1-R	1658	0	714	181	0
4	1-X	1658	0	715	179	0
4	2-F	1658	0	715	163	0
4	2-L	1658	0	715	165	0
4	2-R	1658	0	715	164	0
4	2-X	1658	0	715	163	0
4	3-F	1658	0	715	163	0
4	3-L	1658	0	715	165	0
4	3-R	1658	0	715	164	0
4	3-X	1658	0	715	165	0
4	4-F	1658	0	715	161	0
4	4-L	1658	0	715	165	0
4	4-R	1658	0	715	162	0
4	4-X	1658	0	715	163	0
4	5-F	1658	0	715	161	0
4	5-L	1658	0	715	165	0
4	5-R	1658	0	715	162	0
4	5-X	1658	0	715	163	0
4	6-F	1658	0	0	0	0
4	6-L	1658	0	0	0	0
4	6-R	1658	0	0	0	0
4	6-X	1658	0	0	0	0
4	7-F	1658	0	715	161	0
4	7-L	1658	0	715	165	0
4	7-R	1658	0	715	162	0
4	7-X	1658	0	715	163	0
4	8-F	1658	0	715	161	0
4	8-L	1658	0	715	165	0
4	8-R	1658	0	715	162	0
4	8-X	1658	0	715	165	0
5	1-G	853	0	384	58	0
5	1-M	853	0	384	58	0
5	1-S	853	0	384	60	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	1-Y	853	0	384	58	0
5	2-G	853	0	384	59	0
5	2-M	853	0	384	59	0
5	2-S	853	0	384	59	0
5	2-Y	853	0	384	59	0
5	3-G	853	0	384	59	0
5	3-M	853	0	384	59	0
5	3-S	853	0	384	59	0
5	3-Y	853	0	384	59	0
5	4-G	853	0	384	59	0
5	4-M	853	0	384	59	0
5	4-S	853	0	384	59	0
5	4-Y	853	0	384	59	0
5	5-G	853	0	384	59	0
5	5-M	853	0	384	59	0
5	5-S	853	0	384	59	0
5	5-Y	853	0	384	59	0
5	6-G	853	0	0	0	0
5	6-M	853	0	0	0	0
5	6-S	853	0	0	0	0
5	6-Y	853	0	0	0	0
5	7-G	853	0	384	59	0
5	7-M	853	0	384	59	0
5	7-S	853	0	384	59	0
5	7-Y	853	0	384	59	0
5	8-G	853	0	384	59	0
5	8-M	853	0	384	59	0
5	8-S	853	0	384	59	0
5	8-Y	853	0	384	59	0
6	1-H	842	0	365	38	0
6	1-N	842	0	365	41	0
6	1-T	842	0	365	39	0
6	1-Z	842	0	365	39	0
6	2-H	842	0	365	39	0
6	2-N	842	0	365	37	0
6	2-T	842	0	365	69	0
6	2-Z	842	0	365	37	0
6	3-H	842	0	365	39	0
6	3-N	842	0	365	39	0
6	3-T	842	0	365	69	0
6	3-Z	842	0	365	39	0
6	4-H	842	0	365	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	4-N	842	0	365	37	0
6	4-T	842	0	365	40	0
6	4-Z	842	0	365	37	0
6	5-H	842	0	365	40	0
6	5-N	842	0	365	37	0
6	5-T	842	0	365	40	0
6	5-Z	842	0	365	37	0
6	6-H	842	0	0	0	0
6	6-N	842	0	0	0	0
6	6-T	842	0	0	0	0
6	6-Z	842	0	0	0	0
6	7-H	842	0	365	40	0
6	7-N	842	0	365	37	0
6	7-T	842	0	365	40	0
6	7-Z	842	0	365	37	0
6	8-H	842	0	365	40	0
6	8-N	842	0	365	39	0
6	8-T	842	0	365	40	0
6	8-Z	842	0	365	39	0
All	All	594304	0	229951	14969	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (14969) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.65
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.65
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.65
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.65
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.64
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.64
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.64
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.63
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.62
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.62
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.62
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.62
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.62
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.62
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.62
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.62
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.62
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
6:N:490:GLN:CA	6:N:490:GLN:CB	1.75	1.62
1:E:1165:TYR:CA	1:K:727:PHE:HA	1.19	1.61
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.61
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.61
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.61
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.61
6:H:490:GLN:CA	6:H:490:GLN:CB	1.75	1.61
2:O:783:SER:CB	1:W:92:GLU:H	1.05	1.61
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.61
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.61
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.61
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.61
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.60
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.60
6:T:490:GLN:CA	6:T:490:GLN:CB	1.75	1.60
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.60
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.60
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.60
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.60
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.60
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.60
2:O:783:SER:H	1:W:92:GLU:CB	1.13	1.60
1:Q:1302:VAL:CB	3:V:687:ILE:CB	1.78	1.60
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.60
2:C:678:GLY:H	1:K:847:ARG:CB	0.97	1.59
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.59
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.59
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.59
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.59
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.59
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.59
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.59
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.59
4:L:235:ASP:CA	4:L:235:ASP:CB	1.79	1.59
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.59
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.59
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.59
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.59
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.59
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.59
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.59
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.59
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.59
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.59
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.59
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.58
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.58
4:F:235:ASP:CB	4:F:235:ASP:CA	1.79	1.58
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.58
2:C:779:GLU:CB	1:K:137:PHE:CB	1.78	1.58
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.58
2:C:779:GLU:CB	1:K:137:PHE:CB	1.78	1.58
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.58
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.58
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.58
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.58
2:C:779:GLU:CB	1:K:137:PHE:CB	1.78	1.58
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.58
2:C:779:GLU:CB	1:K:137:PHE:CB	1.78	1.58
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.58
2:C:779:GLU:CB	1:K:137:PHE:CB	1.78	1.58
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.58
2:C:779:GLU:CB	1:K:137:PHE:CB	1.78	1.58
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.58
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.58
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.58
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.58
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.58
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.58
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.58
4:X:260:THR:CA	4:X:260:THR:CB	1.82	1.58
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.58
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.58
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.58
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.58
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.58
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.58
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.58
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.58
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.58
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.58
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.58
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.57
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.57
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.57
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.57
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.57
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.57
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.57
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.57
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.57
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.57
5:Y:366:GLU:CA	5:Y:366:GLU:CB	1.76	1.57
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.57
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.57
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.57
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.57
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.57
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.57
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.57
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.57
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.57
6:Z:490:GLN:CB	6:Z:490:GLN:CA	1.75	1.57
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.57
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.57
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.57
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.57
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.57
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.57
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.57
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.57
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.57
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.57
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.57
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.57
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.57
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.57
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.57
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.57
4:X:454:TYR:CB	4:X:454:TYR:CA	1.77	1.57
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.56
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.56
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.56
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.56
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.56
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.56
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.56
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.56
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.56
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.56
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.56
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.56
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.56
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.56
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.56
4:L:492:GLU:C	4:L:492:GLU:CA	1.75	1.56
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.56
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.56
4:L:454:TYR:CA	4:L:454:TYR:CB	1.77	1.56
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.56
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.56
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.56
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.56
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.56
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.56
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.56
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.56
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.56
4:X:451:GLU:CA	4:X:451:GLU:CB	1.77	1.56
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.56
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.56
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.56
4:R:451:GLU:CA	4:R:451:GLU:CB	1.77	1.56
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.56
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.56
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.56
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.56
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.56
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.56
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.56
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.56
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.56
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.56
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.56
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.56
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.56
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.56
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.56
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.56
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.56
4:R:447:VAL:CA	4:R:447:VAL:CB	1.78	1.56
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.56
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.56
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.56
4:X:235:ASP:CA	4:X:235:ASP:CB	1.78	1.56
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.56
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.56
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.56
5:S:366:GLU:CA	5:S:366:GLU:CB	1.76	1.56
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.56
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.56
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.56
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.56
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.56
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.56
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.56
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.56
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.56
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.56
5:M:366:GLU:CB	5:M:366:GLU:CA	1.76	1.56
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.56
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:451:GLU:CA	4:F:451:GLU:CB	1.77	1.56
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.56
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.56
2:C:303:ALA:C	1:Q:849:ASN:HA	1.22	1.56
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.56
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.56
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.56
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.56
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.56
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.56
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.56
4:R:260:THR:CB	4:R:260:THR:CA	1.82	1.55
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.55
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.55
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.55
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.55
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.55
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.55
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.55
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.55
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
4:L:447:VAL:CA	4:L:447:VAL:CB	1.78	1.55
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.55
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.55
4:R:311:GLN:CA	4:R:311:GLN:C	1.77	1.55
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.55
4:X:492:GLU:CA	4:X:492:GLU:C	1.75	1.55
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.55
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.55
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.55
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.55
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.55
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.55
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.55
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.55
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.55
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.55
4:R:454:TYR:CA	4:R:454:TYR:CB	1.77	1.55
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.55
2:O:779:GLU:CB	1:W:137:PHE:CB	1.77	1.55
3:P:883:LEU:CB	6:T:411:GLU:C	1.76	1.55
4:F:447:VAL:CB	4:F:447:VAL:CA	1.78	1.55
2:O:779:GLU:CB	1:W:137:PHE:CB	1.77	1.55
3:P:883:LEU:CB	6:T:411:GLU:C	1.76	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
2:O:779:GLU:CB	1:W:137:PHE:CB	1.77	1.55
2:O:779:GLU:CB	1:W:137:PHE:CB	1.77	1.55
2:O:779:GLU:CB	1:W:137:PHE:CB	1.77	1.55
2:O:779:GLU:CB	1:W:137:PHE:CB	1.77	1.55
5:Y:326:LEU:CA	5:Y:326:LEU:C	1.79	1.55
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.55
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.55
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.55
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.55
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.55
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.55
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.55
4:F:454:TYR:CA	4:F:454:TYR:CB	1.77	1.55
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.55
2:C:303:ALA:HB1	1:Q:849:ASN:CA	1.10	1.55
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.55
2:C:299:ILE:CB	1:Q:845:TYR:CB	1.76	1.55
2:C:299:ILE:CB	1:Q:845:TYR:CB	1.76	1.55
2:C:299:ILE:CB	1:Q:845:TYR:CB	1.76	1.55
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.55
2:C:299:ILE:CB	1:Q:845:TYR:CB	1.76	1.55
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.55
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.55
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.55
2:C:303:ALA:CB	1:Q:849:ASN:CA	1.75	1.54
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.54
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.54
4:R:455:ILE:CB	4:R:455:ILE:CA	1.84	1.54
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.54
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.54
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.54
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.54
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.54
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.54
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.54
4:F:328:VAL:CA	4:F:328:VAL:C	1.75	1.54
5:G:366:GLU:CB	5:G:366:GLU:CA	1.76	1.54
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.54
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.54
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.54
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.54
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.54
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.54
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.54
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.54
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.54
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.54
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.54
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.54
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.54
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.54
4:X:311:GLN:C	4:X:311:GLN:CA	1.77	1.54
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.54
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.54
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.54
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.54
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.54
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.54
4:L:260:THR:CA	4:L:260:THR:CB	1.82	1.54
4:R:492:GLU:C	4:R:492:GLU:CA	1.75	1.54
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.54
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.54
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.54
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.54
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.54
4:R:328:VAL:C	4:R:328:VAL:CA	1.75	1.54
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.54
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.54
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.54
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.54
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.54
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.54
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.54
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.54
4:X:457:ALA:CA	4:X:457:ALA:CB	1.83	1.54
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.54
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.54
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.54
4:X:456:ASP:CA	4:X:456:ASP:C	1.76	1.54
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.54
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.54
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.54
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.54
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.54
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.54
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.54
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.54
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.54
4:X:455:ILE:CB	4:X:455:ILE:CA	1.84	1.54
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.54
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.54
4:F:456:ASP:CA	4:F:456:ASP:C	1.76	1.54
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.54
4:L:451:GLU:CB	4:L:451:GLU:CA	1.77	1.54
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.54
2:C:726:SER:CB	1:K:85:ARG:CB	1.86	1.54
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.54
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.54
2:C:726:SER:CB	1:K:85:ARG:CB	1.86	1.54
5:G:326:LEU:CA	5:G:326:LEU:C	1.79	1.54
2:C:726:SER:CB	1:K:85:ARG:CB	1.86	1.54
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.54
2:C:726:SER:CB	1:K:85:ARG:CB	1.86	1.54
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.54
2:C:726:SER:CB	1:K:85:ARG:CB	1.86	1.54
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.54
2:C:726:SER:CB	1:K:85:ARG:CB	1.86	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.53
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.53
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.53
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.53
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.53
6:H:497:ARG:N	6:H:497:ARG:CA	1.69	1.53
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.53
5:S:326:LEU:C	5:S:326:LEU:CA	1.79	1.53
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.53
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.53
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.53
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.53
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.53
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.53
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.53
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.53
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.53
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.53
4:L:450:GLU:CA	4:L:451:GLU:N	1.70	1.53
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.53
4:R:235:ASP:CA	4:R:235:ASP:CB	1.79	1.53
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.53
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.53
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.53
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.53
5:G:325:ALA:CA	5:G:325:ALA:C	1.78	1.53
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.53
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.53
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.53
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.53
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.53
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.53
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.53
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.53
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.53
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.53
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.53
5:Y:325:ALA:CA	5:Y:325:ALA:C	1.78	1.53
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.53
5:S:325:ALA:C	5:S:325:ALA:CA	1.78	1.53
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.53
5:M:325:ALA:C	5:M:325:ALA:CA	1.78	1.53
4:F:311:GLN:C	4:F:311:GLN:CA	1.77	1.53
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.53
5:M:325:ALA:C	5:M:325:ALA:CA	1.78	1.53
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.53
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.53
5:M:325:ALA:C	5:M:325:ALA:CA	1.78	1.53
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.53
4:L:456:ASP:C	4:L:456:ASP:CA	1.76	1.53
5:M:325:ALA:C	5:M:325:ALA:CA	1.78	1.53
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.53
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.53
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.53
2:C:786:ARG:CB	1:K:93:LEU:N	1.71	1.53
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.53
2:C:786:ARG:CB	1:K:93:LEU:N	1.71	1.53
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.53
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.53
2:C:786:ARG:CB	1:K:93:LEU:N	1.71	1.53
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.53
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.53
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.53
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.53
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.53
2:C:786:ARG:CB	1:K:93:LEU:N	1.71	1.53
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.53
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.53
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.53
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.53
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.53
2:C:786:ARG:CB	1:K:93:LEU:N	1.71	1.53
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.53
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.53
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.53
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.53
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.53
2:C:786:ARG:CB	1:K:93:LEU:N	1.71	1.53
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.53
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.53
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.53
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.53
4:X:450:GLU:CA	4:X:451:GLU:N	1.70	1.53
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.53
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.53
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.53
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.53
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.53
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.53
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.53
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.53
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.53
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.53
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.53
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.53
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.53
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.53
2:C:303:ALA:CA	1:Q:849:ASN:HA	1.29	1.52
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.52
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.52
5:M:325:ALA:C	5:M:325:ALA:CA	1.77	1.52
5:M:326:LEU:C	5:M:326:LEU:CA	1.79	1.52
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.52
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.52
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.52
4:R:450:GLU:N	4:R:450:GLU:CA	1.71	1.52
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.52
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.52
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.52
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.52
4:L:455:ILE:CA	4:L:455:ILE:CB	1.84	1.52
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.52
4:F:492:GLU:CA	4:F:492:GLU:C	1.75	1.52
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.52
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.52
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.52
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.52
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.52
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.52
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.52
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.52
4:L:328:VAL:CA	4:L:328:VAL:C	1.75	1.52
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.52
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.52
4:F:329:GLY:N	4:F:329:GLY:CA	1.72	1.52
4:R:456:ASP:C	4:R:456:ASP:CA	1.76	1.52
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.52
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.52
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.52
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.52
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.52
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.52
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.52
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.52
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.52
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.52
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.52
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.52
4:L:488:ILE:N	4:L:488:ILE:CA	1.67	1.52
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.52
4:X:328:VAL:C	4:X:328:VAL:CA	1.75	1.52
4:X:447:VAL:CA	4:X:447:VAL:CB	1.78	1.52
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.52
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.52
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.52
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.52
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.52
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.52
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.52
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.52
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.52
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.52
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.52
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.52
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.52
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.52
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.52
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.52
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.52
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.52
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.52
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.52
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.52
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.52
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.52
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.52
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.51
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.51
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.51
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.51
4:F:455:ILE:CA	4:F:455:ILE:CB	1.84	1.51
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
5:S:327:ARG:CA	5:S:327:ARG:CB	1.87	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.51
4:R:483:ASP:CA	4:R:483:ASP:CB	1.85	1.51
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.51
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.51
4:R:488:ILE:N	4:R:488:ILE:CA	1.67	1.51
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.51
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.51
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.51
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.51
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.51
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.51
4:L:457:ALA:CB	4:L:457:ALA:CA	1.83	1.51
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.51
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.51
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.51
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.51
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.51
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.51
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.51
4:F:488:ILE:N	4:F:488:ILE:CA	1.67	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.51
4:F:329:GLY:N	4:F:329:GLY:CA	1.71	1.51
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.51
4:F:329:GLY:N	4:F:329:GLY:CA	1.71	1.51
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.51
4:F:329:GLY:N	4:F:329:GLY:CA	1.71	1.51
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.51
4:F:329:GLY:N	4:F:329:GLY:CA	1.71	1.51
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.51
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.51
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.51
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.51
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.51
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.51
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.51
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.51
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.51
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.51
4:X:488:ILE:N	4:X:488:ILE:CA	1.67	1.51
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.51
4:L:483:ASP:CB	4:L:483:ASP:CA	1.85	1.51
2:C:534:LEU:CB	3:D:1667:ALA:H	1.21	1.51
4:F:260:THR:CA	4:F:260:THR:CB	1.82	1.51
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.51
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.51
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.51
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.51
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.51
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.51
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.51
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.51
5:M:325:ALA:C	5:M:325:ALA:CA	1.78	1.51
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.51
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.51
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.51
5:Y:276:SER:C	5:Y:276:SER:CA	1.82	1.51
4:L:458:ASP:CA	4:L:458:ASP:CB	1.87	1.51
5:M:325:ALA:C	5:M:325:ALA:CA	1.78	1.51
4:X:483:ASP:CA	4:X:483:ASP:CB	1.85	1.51
2:C:303:ALA:CB	1:Q:849:ASN:CB	1.87	1.50
4:F:457:ALA:CA	4:F:457:ALA:CB	1.83	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:311:GLN:CA	4:L:311:GLN:C	1.77	1.50
4:R:329:GLY:N	4:R:329:GLY:CA	1.71	1.50
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.50
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.50
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.50
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.50
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.50
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.50
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.50
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.50
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.50
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.50
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.50
4:F:450:GLU:N	4:F:450:GLU:CA	1.71	1.50
4:F:483:ASP:CA	4:F:483:ASP:CB	1.85	1.50
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.50
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.50
5:M:276:SER:CA	5:M:276:SER:C	1.82	1.50
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.50
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.50
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.50
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.50
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.50
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.50
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.50
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.50
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.50
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.50
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.50
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.50
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.50
6:T:497:ARG:CA	6:T:497:ARG:N	1.69	1.50
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.50
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.50
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.50
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.50
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.50
2:O:522:CYS:N	3:P:1662:CYS:CA	1.67	1.50
2:O:522:CYS:N	3:P:1662:CYS:CA	1.67	1.50
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.50
2:O:522:CYS:N	3:P:1662:CYS:CA	1.67	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.50
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.50
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.50
2:O:522:CYS:N	3:P:1662:CYS:CA	1.67	1.50
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.50
2:O:783:SER:CB	1:W:92:GLU:N	1.72	1.50
4:R:457:ALA:CA	4:R:457:ALA:CB	1.83	1.50
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.50
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.50
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.50
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.50
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.50
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.50
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.50
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.50
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.50
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.50
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.50
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.50
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.50
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.50
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.50
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.50
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.50
6:Z:381:LYS:N	6:Z:381:LYS:CA	1.71	1.50
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.50
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.50
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.50
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.50
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.50
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.50
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.50
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.50
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.50
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.50
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.50
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.50
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.50
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.50
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.50
4:R:454:TYR:CA	4:R:454:TYR:C	1.83	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
5:G:327:ARG:CA	5:G:327:ARG:CB	1.87	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.49
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
6:H:381:LYS:N	6:H:381:LYS:CA	1.71	1.49
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.49
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.49
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.49
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.49
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
4:L:450:GLU:CA	4:L:450:GLU:N	1.71	1.49
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.49
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.49
2:C:306:PRO:HA	1:Q:849:ASN:CB	1.04	1.49
2:C:678:GLY:N	1:K:847:ARG:CB	1.74	1.49
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.49
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.49
2:I:15:GLN:CA	2:I:15:GLN:C	1.84	1.49
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.49
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.49
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.49
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.49
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.49
5:S:276:SER:C	5:S:276:SER:CA	1.82	1.49
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.49
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.49
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.49
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.49
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.49
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.49
4:F:299:ASN:C	4:F:299:ASN:CA	1.84	1.49
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.49
2:C:524:ARG:CB	3:D:1609:ILE:C	1.86	1.49
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.49
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.49
5:G:276:SER:CA	5:G:276:SER:C	1.82	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:381:LYS:N	6:N:381:LYS:CA	1.71	1.49
2:C:786:ARG:CB	1:K:92:GLU:CB	1.87	1.49
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.49
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.49
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.49
2:C:786:ARG:CB	1:K:92:GLU:CB	1.87	1.49
4:R:450:GLU:CA	4:R:451:GLU:N	1.70	1.49
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.49
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.49
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
2:C:786:ARG:CB	1:K:92:GLU:CB	1.87	1.49
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.49
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.49
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.49
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
2:C:786:ARG:CB	1:K:92:GLU:CB	1.87	1.49
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.49
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.49
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.49
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
2:C:786:ARG:CB	1:K:92:GLU:CB	1.87	1.49
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.49
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.49
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.49
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
2:C:786:ARG:CB	1:K:92:GLU:CB	1.87	1.49
6:T:411:GLU:C	6:T:412:GLU:N	1.69	1.49
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.49
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.49
4:X:450:GLU:CA	4:X:450:GLU:N	1.71	1.49
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.49
4:F:454:TYR:C	4:F:454:TYR:HA	1.38	1.49
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.49
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.49
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.49
2:C:522:CYS:N	3:D:1662:CYS:CA	1.67	1.49
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.49
2:C:522:CYS:N	3:D:1662:CYS:CA	1.67	1.49
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.49
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.49
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.49
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.49
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.49
2:C:522:CYS:N	3:D:1662:CYS:CA	1.67	1.49
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.49
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.49
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.49
2:C:522:CYS:N	3:D:1662:CYS:CA	1.67	1.49
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.49
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.49
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.49
5:Y:327:ARG:CB	5:Y:327:ARG:CA	1.87	1.49
2:C:15:GLN:C	2:C:15:GLN:CA	1.84	1.49
1:E:1165:TYR:HA	1:K:727:PHE:CA	1.36	1.49
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.49
2:C:786:ARG:CB	1:K:92:GLU:CA	1.91	1.49
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.49
2:C:786:ARG:CB	1:K:92:GLU:CA	1.91	1.49
4:F:492:GLU:C	4:F:493:HIS:N	1.69	1.49
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.49
2:C:786:ARG:CB	1:K:92:GLU:CA	1.91	1.49
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.49
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.49
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.49
2:C:786:ARG:CB	1:K:92:GLU:CA	1.91	1.49
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.49
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.49
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.49
2:C:786:ARG:CB	1:K:92:GLU:CA	1.91	1.49
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.49
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.49
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.49
2:C:786:ARG:CB	1:K:92:GLU:CA	1.91	1.49
4:F:458:ASP:CB	4:F:458:ASP:CA	1.87	1.49
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.49
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.48
6:Z:497:ARG:N	6:Z:497:ARG:CA	1.69	1.48
4:F:329:GLY:N	4:F:329:GLY:CA	1.71	1.48
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.48
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.48
2:O:726:SER:CB	1:W:85:ARG:CB	1.91	1.48
4:R:459:LEU:C	4:R:459:LEU:CA	1.86	1.48
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.48
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.48
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.48
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.48
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.48
4:F:329:GLY:N	4:F:329:GLY:CA	1.71	1.48
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.48
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.48
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.48
2:O:726:SER:CB	1:W:85:ARG:CB	1.91	1.48
4:R:459:LEU:C	4:R:459:LEU:CA	1.86	1.48
6:T:381:LYS:N	6:T:381:LYS:CA	1.71	1.48
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.48
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.48
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.48
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.48
2:O:726:SER:CB	1:W:85:ARG:CB	1.91	1.48
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.48
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.48
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.48
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.48
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.48
2:O:726:SER:CB	1:W:85:ARG:CB	1.91	1.48
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.48
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.48
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.48
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.48
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.48
2:O:726:SER:CB	1:W:85:ARG:CB	1.91	1.48
2:U:15:GLN:C	2:U:15:GLN:CA	1.84	1.48
4:X:454:TYR:CA	4:X:454:TYR:C	1.83	1.48
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.48
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.48
6:H:463:ALA:N	6:H:463:ALA:CA	1.74	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.48
2:O:726:SER:CB	1:W:85:ARG:CB	1.91	1.48
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.48
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.48
6:N:497:ARG:N	6:N:497:ARG:CA	1.69	1.48
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.48
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.48
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.48
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.48
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.48
4:R:299:ASN:CA	4:R:299:ASN:C	1.84	1.48
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.48
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.48
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.48
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.48
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.48
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.48
1:Q:1305:GLN:N	3:V:174:THR:CB	1.77	1.48
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.48
1:Q:1305:GLN:N	3:V:174:THR:CB	1.77	1.48
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.48
4:R:222:THR:C	4:R:222:THR:CA	1.87	1.48
4:R:458:ASP:CA	4:R:458:ASP:CB	1.87	1.48
4:X:458:ASP:CA	4:X:458:ASP:CB	1.87	1.48
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.48
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.48
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.48
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.48
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.48
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.48
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.48
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.48
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.48
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.48
4:F:459:LEU:CA	4:F:459:LEU:C	1.87	1.48
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.48
4:F:459:LEU:CA	4:F:459:LEU:C	1.87	1.48
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.48
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.48
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.48
2:O:173:PRO:C	3:P:1682:LYS:HA	1.39	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.48
2:O:173:PRO:C	3:P:1682:LYS:HA	1.39	1.48
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.48
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.48
4:X:329:GLY:N	4:X:329:GLY:CA	1.71	1.48
6:H:411:GLU:C	6:H:412:GLU:N	1.69	1.48
6:T:463:ALA:N	6:T:463:ALA:CA	1.74	1.48
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.48
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.48
4:F:454:TYR:CA	4:F:454:TYR:C	1.83	1.48
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.48
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.48
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.48
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.48
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.48
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.48
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.48
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.48
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.48
5:M:327:ARG:CA	5:M:327:ARG:CB	1.87	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
6:N:462:GLY:CA	6:N:462:GLY:C	1.85	1.47
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.47
4:F:450:GLU:CA	4:F:451:GLU:N	1.70	1.47
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.47
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.47
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.47
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.47
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.47
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.47
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.47
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.47
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.47
2:C:173:PRO:C	3:D:1682:LYS:HA	1.39	1.47
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.47
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.47
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.47
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.47
2:C:173:PRO:C	3:D:1682:LYS:HA	1.39	1.47
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.47
4:L:493:HIS:N	4:L:493:HIS:CA	1.76	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:463:ALA:N	6:N:463:ALA:CA	1.74	1.47
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.47
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.47
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.47
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.47
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.47
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.47
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.47
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.47
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.47
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.47
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.47
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.47
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.47
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.47
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.47
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.47
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.47
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.47
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.47
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.47
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.47
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.47
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.47
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.47
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.47
4:L:454:TYR:CA	4:L:454:TYR:C	1.83	1.47
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.47
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.47
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.47
6:Z:462:GLY:C	6:Z:462:GLY:CA	1.85	1.47
5:G:379:HIS:N	5:G:379:HIS:CA	1.76	1.47
4:L:329:GLY:N	4:L:329:GLY:CA	1.71	1.47
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.47
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.47
6:T:462:GLY:C	6:T:462:GLY:CA	1.85	1.47
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.47
6:Z:463:ALA:N	6:Z:463:ALA:CA	1.74	1.47
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.47
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.47
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.47
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.47
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.47
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.47
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.47
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.47
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.47
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.47
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.47
4:L:367:THR:C	4:L:367:THR:CA	1.85	1.47
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.47
4:L:453:TYR:N	4:L:453:TYR:CA	1.75	1.47
4:L:492:GLU:C	4:L:493:HIS:N	1.69	1.47
5:M:327:ARG:CA	5:M:327:ARG:N	1.77	1.47
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.47
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.47
3:P:888:PRO:CB	6:T:409:PRO:N	1.75	1.47
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.47
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.47
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.47
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.47
3:P:888:PRO:CB	6:T:409:PRO:N	1.75	1.47
4:R:367:THR:C	4:R:367:THR:CA	1.85	1.47
4:R:492:GLU:C	4:R:493:HIS:N	1.69	1.47
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.47
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.47
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.47
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.47
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.47
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.47
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.47
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:367:THR:CA	4:X:367:THR:C	1.85	1.47
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.47
4:F:459:LEU:CA	4:F:459:LEU:C	1.86	1.46
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.46
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.46
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.46
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.46
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.46
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.46
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.46
4:X:222:THR:CA	4:X:222:THR:C	1.87	1.46
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.46
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.46
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.46
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.46
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.46
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.46
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.46
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.46
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.46
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.46
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.46
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.46
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.46
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.46
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.46
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.46
4:X:299:ASN:C	4:X:299:ASN:CA	1.84	1.46
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.46
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.46
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.46
4:R:472:GLU:N	4:R:472:GLU:CA	1.76	1.46
5:S:339:TYR:C	5:S:340:ALA:N	1.72	1.46
4:L:459:LEU:CA	4:L:459:LEU:C	1.86	1.46
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.46
2:O:15:GLN:CA	2:O:15:GLN:C	1.84	1.46
4:R:453:TYR:N	4:R:453:TYR:CA	1.75	1.46
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.46
5:S:378:SER:CA	5:S:378:SER:C	1.89	1.46
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.46
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.46
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.46
5:S:327:ARG:CA	5:S:327:ARG:N	1.77	1.46
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.46
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.46
1:E:1305:GLN:N	3:J:174:THR:CB	1.77	1.46
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.46
1:E:1305:GLN:N	3:J:174:THR:CB	1.77	1.46
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.46
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.46
4:X:493:HIS:N	4:X:493:HIS:CA	1.76	1.46
3:D:1450:GLU:CB	3:P:1446:LYS:CB	1.92	1.46
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.46
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.46
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.46
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.46
3:D:1450:GLU:CB	3:P:1446:LYS:CB	1.92	1.46
4:F:453:TYR:N	4:F:453:TYR:CA	1.75	1.46
6:H:462:GLY:CA	6:H:462:GLY:C	1.85	1.46
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.46
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.46
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.46
3:D:1450:GLU:CB	3:P:1446:LYS:CB	1.92	1.46
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.46
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.46
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.46
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.46
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.46
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.46
3:D:1450:GLU:CB	3:P:1446:LYS:CB	1.92	1.46
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.46
4:X:453:TYR:N	4:X:453:TYR:CA	1.75	1.46
4:X:472:GLU:N	4:X:472:GLU:CA	1.76	1.46
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.46
5:S:378:SER:CA	5:S:378:SER:C	1.88	1.46
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.46
4:X:454:TYR:C	4:X:454:TYR:HA	1.38	1.46
4:R:493:HIS:N	4:R:493:HIS:CA	1.76	1.46
5:S:378:SER:CA	5:S:378:SER:C	1.88	1.46
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.46
5:G:378:SER:CA	5:G:378:SER:C	1.88	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:454:TYR:C	4:X:454:TYR:HA	1.38	1.46
5:G:378:SER:CA	5:G:378:SER:C	1.88	1.46
4:X:454:TYR:C	4:X:454:TYR:HA	1.38	1.46
5:G:378:SER:CA	5:G:378:SER:C	1.88	1.46
4:X:454:TYR:C	4:X:454:TYR:HA	1.38	1.46
5:G:378:SER:CA	5:G:378:SER:C	1.88	1.46
4:R:459:LEU:C	4:R:459:LEU:CA	1.87	1.45
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.45
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.45
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.45
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.45
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.45
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.45
4:R:459:LEU:C	4:R:459:LEU:CA	1.86	1.45
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.45
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.45
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.45
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.45
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.45
4:R:459:LEU:C	4:R:459:LEU:CA	1.86	1.45
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.45
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.45
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.45
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.45
5:M:379:HIS:N	5:M:379:HIS:CA	1.76	1.45
4:R:459:LEU:C	4:R:459:LEU:CA	1.86	1.45
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.45
5:Y:378:SER:C	5:Y:378:SER:CA	1.88	1.45
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.45
4:F:493:HIS:N	4:F:493:HIS:CA	1.76	1.45
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.45
4:R:459:LEU:C	4:R:459:LEU:CA	1.86	1.45
5:S:379:HIS:N	5:S:379:HIS:CA	1.76	1.45
4:L:222:THR:CA	4:L:222:THR:C	1.87	1.45
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.45
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.45
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.45
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.45
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.45
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.45
6:N:411:GLU:C	6:N:412:GLU:N	1.69	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.45
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.45
4:X:492:GLU:C	4:X:493:HIS:N	1.69	1.45
4:L:472:GLU:N	4:L:472:GLU:CA	1.76	1.45
5:M:378:SER:CA	5:M:378:SER:C	1.88	1.45
6:N:409:PRO:CA	6:N:409:PRO:C	1.88	1.45
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.45
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.45
4:F:459:LEU:CA	4:F:459:LEU:C	1.87	1.45
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.45
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.45
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.45
4:F:459:LEU:CA	4:F:459:LEU:C	1.87	1.45
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.45
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.45
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.45
4:F:459:LEU:CA	4:F:459:LEU:C	1.87	1.45
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.45
4:L:299:ASN:CA	4:L:299:ASN:C	1.84	1.45
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.45
4:F:459:LEU:CA	4:F:459:LEU:C	1.87	1.45
4:F:472:GLU:N	4:F:472:GLU:CA	1.76	1.45
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.45
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.45
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.45
6:Z:409:PRO:C	6:Z:409:PRO:CA	1.88	1.45
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.45
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.45
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.45
5:M:339:TYR:C	5:M:340:ALA:N	1.72	1.45
4:F:222:THR:CA	4:F:222:THR:C	1.87	1.45
1:E:845:TYR:CB	2:O:299:ILE:CB	1.89	1.45
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.45
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.45
1:E:845:TYR:CB	2:O:299:ILE:CB	1.89	1.45
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.45
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.45
1:E:845:TYR:CB	2:O:299:ILE:CB	1.89	1.45
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.45
1:E:845:TYR:CB	2:O:299:ILE:CB	1.89	1.45
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.45
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.45
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.44
5:G:378:SER:CA	5:G:378:SER:C	1.89	1.44
5:G:327:ARG:CA	5:G:327:ARG:N	1.77	1.44
5:G:378:SER:CA	5:G:378:SER:C	1.89	1.44
5:G:378:SER:CA	5:G:378:SER:C	1.89	1.44
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.44
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.44
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.44
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.44
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.44
4:F:367:THR:CA	4:F:367:THR:C	1.85	1.44
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.44
5:S:378:SER:CA	5:S:378:SER:C	1.88	1.44
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.44
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.44
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.44
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.44
5:S:378:SER:CA	5:S:378:SER:C	1.88	1.44
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.44
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.44
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.44
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.44
5:S:378:SER:CA	5:S:378:SER:C	1.88	1.44
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.44
5:Y:379:HIS:N	5:Y:379:HIS:CA	1.76	1.44
6:Z:411:GLU:C	6:Z:412:GLU:N	1.69	1.44
6:H:409:PRO:CA	6:H:409:PRO:C	1.88	1.44
5:S:378:SER:CA	5:S:378:SER:C	1.88	1.44
4:X:459:LEU:C	4:X:459:LEU:CA	1.86	1.44
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.44
5:S:326:LEU:CA	5:S:326:LEU:N	1.80	1.44
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.44
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.44
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.44
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.44
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.44
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.44
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.44
5:G:339:TYR:C	5:G:340:ALA:N	1.72	1.44
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.44
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.44
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.44
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.44
3:D:1446:LYS:CB	3:P:1450:GLU:CB	1.91	1.44
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.44
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.44
3:D:1446:LYS:CB	3:P:1450:GLU:CB	1.91	1.44
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.44
3:D:1446:LYS:CB	3:P:1450:GLU:CB	1.91	1.44
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.44
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.44
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.44
3:D:1446:LYS:CB	3:P:1450:GLU:CB	1.91	1.44
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.43
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.43
5:Y:327:ARG:CA	5:Y:327:ARG:N	1.77	1.43
2:C:304:PRO:O	1:Q:847:ARG:CB	1.65	1.43
2:C:304:PRO:O	1:Q:847:ARG:CB	1.65	1.43
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.43
2:C:304:PRO:O	1:Q:847:ARG:CB	1.65	1.43
2:C:304:PRO:O	1:Q:847:ARG:CB	1.65	1.43
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.43
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.43
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.43
2:O:786:ARG:CB	1:W:92:GLU:CB	1.89	1.43
2:O:786:ARG:CB	1:W:92:GLU:CB	1.89	1.43
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.43
2:O:786:ARG:CB	1:W:92:GLU:CB	1.89	1.43
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.43
2:O:786:ARG:CB	1:W:92:GLU:CB	1.89	1.43
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.43
2:O:786:ARG:CB	1:W:92:GLU:CB	1.89	1.43
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.43
2:O:786:ARG:CB	1:W:92:GLU:CB	1.89	1.43
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.43
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.43
5:G:326:LEU:CA	5:G:326:LEU:N	1.80	1.43
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.43
5:Y:326:LEU:CA	5:Y:326:LEU:N	1.80	1.43
5:Y:339:TYR:C	5:Y:340:ALA:N	1.72	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:454:TYR:C	4:X:454:TYR:HA	1.37	1.43
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.43
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.43
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.43
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.43
4:X:454:TYR:C	4:X:454:TYR:HA	1.37	1.43
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.43
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.43
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.43
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.43
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.43
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.43
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.43
5:M:326:LEU:CA	5:M:326:LEU:N	1.80	1.43
1:Q:1305:GLN:CA	3:V:174:THR:CB	1.97	1.43
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.43
1:Q:1305:GLN:CA	3:V:174:THR:CB	1.97	1.43
6:T:409:PRO:CA	6:T:409:PRO:C	1.88	1.43
2:C:303:ALA:CB	1:Q:849:ASN:N	1.75	1.42
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.42
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.42
4:F:454:TYR:C	4:F:454:TYR:HA	1.37	1.42
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.42
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.42
4:F:454:TYR:C	4:F:454:TYR:HA	1.37	1.42
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.42
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.42
4:F:454:TYR:C	4:F:454:TYR:HA	1.37	1.42
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.42
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.42
4:F:454:TYR:C	4:F:454:TYR:HA	1.37	1.42
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.42
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.42
6:T:374:SER:CA	6:T:374:SER:CB	1.96	1.42
2:C:487:CYS:CB	3:D:1661:ARG:CB	1.95	1.42
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.42
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.42
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.42
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.42
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.42
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.42
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.42
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.42
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.42
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.42
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.42
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.42
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.42
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.42
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.42
1:E:1305:GLN:HA	3:J:174:THR:CB	1.50	1.42
1:E:1305:GLN:CA	3:J:174:THR:CB	1.97	1.42
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.42
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.42
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.42
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.42
1:E:1305:GLN:HA	3:J:174:THR:CB	1.50	1.42
1:E:1305:GLN:CA	3:J:174:THR:CB	1.97	1.42
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.42
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.42
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.42
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
4:F:454:TYR:C	4:F:454:TYR:HA	1.37	1.41
4:F:454:TYR:C	4:F:454:TYR:HA	1.37	1.41
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.41
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.41
4:L:454:TYR:C	4:L:454:TYR:HA	1.37	1.41
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.41
2:O:522:CYS:N	3:P:1662:CYS:HA	1.24	1.41
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.41
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.41
2:O:522:CYS:N	3:P:1662:CYS:HA	1.24	1.41
2:O:522:CYS:N	3:P:1662:CYS:HA	1.24	1.41
6:N:374:SER:CA	6:N:374:SER:CB	1.96	1.41
2:O:522:CYS:N	3:P:1662:CYS:HA	1.24	1.41
6:H:374:SER:CA	6:H:374:SER:CB	1.96	1.41
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.41
4:F:453:TYR:CA	4:F:453:TYR:CB	1.97	1.41
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
1:Q:1305:GLN:HA	3:V:174:THR:CB	1.50	1.41
1:Q:1305:GLN:HA	3:V:174:THR:CB	1.50	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.41
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:X:400:GLY:N	4:X:400:GLY:CA	1.82	1.41
1:K:860:GLN:CB	1:K:871:ASP:CB	1.98	1.41
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.41
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.41
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.41
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.41
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.41
4:L:400:GLY:N	4:L:401:TYR:N	1.63	1.41
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.40
1:W:860:GLN:CB	1:W:871:ASP:CB	1.98	1.40
1:W:860:GLN:CB	1:W:871:ASP:CB	1.98	1.40
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.40
1:W:860:GLN:CB	1:W:871:ASP:CB	1.98	1.40
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.40
1:W:860:GLN:CB	1:W:871:ASP:CB	1.98	1.40
4:L:400:GLY:N	4:L:400:GLY:CA	1.82	1.40
1:W:860:GLN:CB	1:W:871:ASP:CB	1.98	1.40
1:W:860:GLN:CB	1:W:871:ASP:CB	1.98	1.40
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.40
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.40
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.40
4:F:400:GLY:N	4:F:401:TYR:N	1.63	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.40
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.40
6:Z:374:SER:CB	6:Z:374:SER:CA	1.96	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.40
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.40
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.40
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.40
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.40
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.40
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.40
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.40
4:R:400:GLY:N	4:R:401:TYR:N	1.63	1.40
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.40
4:X:453:TYR:CA	4:X:453:TYR:CB	1.97	1.40
1:Q:1354:LEU:O	3:V:872:LEU:CB	1.69	1.39
4:R:453:TYR:CA	4:R:453:TYR:CB	1.97	1.39
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.39
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.39
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.39
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.39
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.39
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.39
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.39
4:F:458:ASP:CA	4:F:458:ASP:C	1.94	1.39
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.39
4:R:454:TYR:C	4:R:454:TYR:HA	1.37	1.39
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.39
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.39
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.39
4:X:400:GLY:N	4:X:401:TYR:N	1.63	1.39
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.39
2:O:783:SER:CB	1:W:91:PRO:N	1.84	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:458:ASP:CA	4:R:458:ASP:C	1.94	1.39
2:C:786:ARG:CB	1:K:92:GLU:C	1.93	1.39
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.39
2:C:786:ARG:CB	1:K:92:GLU:C	1.93	1.39
2:C:786:ARG:CB	1:K:92:GLU:C	1.93	1.39
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.39
2:C:786:ARG:CB	1:K:92:GLU:C	1.93	1.39
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.39
2:C:786:ARG:CB	1:K:92:GLU:C	1.93	1.39
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.39
2:C:786:ARG:CB	1:K:92:GLU:C	1.93	1.39
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.38
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.38
3:D:888:PRO:CB	6:H:404:GLU:CB	1.99	1.38
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.38
3:D:888:PRO:CB	6:H:404:GLU:CB	1.99	1.38
4:F:400:GLY:N	4:F:400:GLY:CA	1.82	1.38
2:C:303:ALA:HB1	1:Q:849:ASN:N	1.09	1.38
2:U:622:PHE:CB	3:V:1450:GLU:CB	2.00	1.38
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.38
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.38
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.38
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.38
2:C:306:PRO:CA	1:Q:849:ASN:CB	2.00	1.38
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.38
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.38
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.38
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.38
4:F:450:GLU:C	4:F:450:GLU:O	1.64	1.38
4:L:453:TYR:CA	4:L:453:TYR:CB	1.97	1.38
2:C:522:CYS:N	3:D:1662:CYS:HA	1.24	1.38
2:C:785:LEU:HA	1:K:132:GLY:C	1.47	1.38
2:C:522:CYS:N	3:D:1662:CYS:HA	1.24	1.38
2:C:785:LEU:HA	1:K:132:GLY:C	1.47	1.38
2:C:522:CYS:N	3:D:1662:CYS:HA	1.24	1.38
2:C:785:LEU:HA	1:K:132:GLY:C	1.47	1.38
2:C:785:LEU:HA	1:K:132:GLY:C	1.47	1.38
2:C:785:LEU:HA	1:K:132:GLY:C	1.47	1.38
2:C:522:CYS:N	3:D:1662:CYS:HA	1.24	1.38
2:C:785:LEU:HA	1:K:132:GLY:C	1.47	1.38
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.37
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.38
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.38
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.37
4:R:400:GLY:N	4:R:400:GLY:CA	1.82	1.38
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.38
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.38
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.38
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.37
1:Q:1266:PHE:CB	3:V:693:GLU:CB	1.99	1.37
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.37
2:C:173:PRO:HA	3:D:1686:PRO:CA	1.04	1.37
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.37
2:C:173:PRO:HA	3:D:1686:PRO:CA	1.04	1.37
2:C:173:PRO:HA	3:D:1686:PRO:CA	1.04	1.37
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.37
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.37
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.37
2:C:173:PRO:HA	3:D:1686:PRO:CA	1.04	1.37
4:X:454:TYR:C	4:X:454:TYR:HA	1.37	1.37
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.37
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.37
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.37
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.37
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.37
4:X:458:ASP:CA	4:X:458:ASP:C	1.94	1.37
1:Q:1286:ILE:HA	3:V:680:SER:CB	1.52	1.37
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.37
4:X:450:GLU:O	4:X:450:GLU:C	1.64	1.37
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.37
2:C:674:TYR:CB	1:K:849:ASN:HA	1.47	1.36
3:P:880:GLU:O	6:T:412:GLU:CA	1.70	1.36
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.36
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.36
3:P:880:GLU:O	6:T:412:GLU:CA	1.70	1.36
4:L:450:GLU:C	4:L:450:GLU:O	1.64	1.36
4:L:458:ASP:CA	4:L:458:ASP:C	1.94	1.36
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.36
4:X:458:ASP:C	4:X:459:LEU:N	1.82	1.36
1:E:1301:GLU:HA	3:J:877:CYS:CB	1.54	1.36
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.36
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.36
4:F:458:ASP:C	4:F:459:LEU:N	1.82	1.36
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.35
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.35
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.35
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.35
4:R:450:GLU:C	4:R:450:GLU:O	1.64	1.35
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.35
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.35
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.35
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.35
2:C:173:PRO:CA	3:D:1686:PRO:HA	1.02	1.35
2:O:173:PRO:CA	3:P:1686:PRO:HA	1.02	1.35
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.35
2:C:173:PRO:CA	3:D:1686:PRO:HA	1.02	1.35
2:O:173:PRO:CA	3:P:1686:PRO:HA	1.02	1.35
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.35
2:C:173:PRO:CA	3:D:1686:PRO:HA	1.02	1.35
2:O:173:PRO:CA	3:P:1686:PRO:HA	1.02	1.35
2:C:173:PRO:CA	3:D:1686:PRO:HA	1.02	1.35
2:O:173:PRO:CA	3:P:1686:PRO:HA	1.02	1.35
2:C:483:GLU:CB	3:D:1658:ALA:HA	1.57	1.35
2:C:676:ALA:HB1	1:K:846:ILE:O	1.23	1.35
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.35
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.35
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.35
4:R:458:ASP:C	4:R:459:LEU:N	1.82	1.35
2:O:654:SER:C	3:P:1454:ALA:O	1.67	1.34
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.34
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.34
1:E:1304:ASP:C	3:J:174:THR:CB	2.00	1.34
1:E:1304:ASP:C	3:J:174:THR:CB	2.00	1.34
4:L:458:ASP:C	4:L:459:LEU:N	1.82	1.34
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.34
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.34
2:O:173:PRO:HA	3:P:1686:PRO:CA	1.04	1.34
2:O:173:PRO:HA	3:P:1686:PRO:CA	1.04	1.34
2:O:173:PRO:HA	3:P:1686:PRO:CA	1.04	1.34
2:O:173:PRO:HA	3:P:1686:PRO:CA	1.04	1.34
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.34
1:Q:1304:ASP:C	3:V:174:THR:CB	2.00	1.34
1:Q:1304:ASP:C	3:V:174:THR:CB	2.00	1.34
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.34
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.33
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.33
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.33
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.33
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.33
4:L:401:TYR:N	4:L:401:TYR:CA	1.90	1.33
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.33
4:R:401:TYR:N	4:R:401:TYR:CA	1.90	1.33
2:C:303:ALA:CA	1:Q:849:ASN:CA	2.00	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.33
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.33
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.33
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.33
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.33
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.33
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.33
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.33
5:M:327:ARG:CA	5:M:327:ARG:C	2.02	1.33
5:M:327:ARG:CA	5:M:327:ARG:C	2.02	1.33
5:M:327:ARG:CA	5:M:327:ARG:C	2.02	1.33
5:M:327:ARG:CA	5:M:327:ARG:C	2.02	1.33
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.33
2:O:785:LEU:HA	1:W:132:GLY:C	1.52	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
5:M:327:ARG:CA	5:M:327:ARG:C	2.01	1.33
2:O:785:LEU:HA	1:W:132:GLY:C	1.52	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
2:O:785:LEU:HA	1:W:132:GLY:C	1.52	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
2:O:785:LEU:HA	1:W:132:GLY:C	1.52	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:785:LEU:HA	1:W:132:GLY:C	1.52	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
5:M:327:ARG:CA	5:M:327:ARG:C	2.01	1.33
2:O:785:LEU:HA	1:W:132:GLY:C	1.52	1.33
4:R:451:GLU:CA	4:R:451:GLU:C	2.02	1.33
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.02	1.33
4:F:401:TYR:N	4:F:401:TYR:CA	1.90	1.33
5:G:327:ARG:CA	5:G:327:ARG:C	2.02	1.33
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.33
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.33
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.33
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.02	1.33
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.33
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.02	1.33
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.33
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.02	1.33
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.33
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.33
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.33
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.32
2:C:173:PRO:CB	3:D:1687:GLY:H	1.39	1.32
2:C:173:PRO:CB	3:D:1687:GLY:H	1.39	1.32
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.02	1.32
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.02	1.32
1:E:1348:ARG:CB	1:K:957:GLU:CB	2.07	1.32
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.32
1:E:1348:ARG:CB	1:K:957:GLU:CB	2.07	1.32
1:E:1348:ARG:CB	1:K:957:GLU:CB	2.07	1.32
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.32
1:E:1348:ARG:CB	1:K:957:GLU:CB	2.07	1.32
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.32
4:X:401:TYR:N	4:X:401:TYR:CA	1.90	1.32
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.32
5:M:327:ARG:CA	5:M:327:ARG:C	2.02	1.32
2:O:722:LEU:HA	1:W:130:ASP:O	1.30	1.32
2:O:722:LEU:HA	1:W:130:ASP:O	1.30	1.32
2:O:722:LEU:HA	1:W:130:ASP:O	1.30	1.32
2:O:722:LEU:HA	1:W:130:ASP:O	1.30	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:722:LEU:HA	1:W:130:ASP:O	1.30	1.32
2:O:722:LEU:HA	1:W:130:ASP:O	1.30	1.32
1:Q:1355:ASP:CA	3:V:872:LEU:HA	1.59	1.31
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.31
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.31
5:S:327:ARG:CA	5:S:327:ARG:C	2.02	1.31
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.31
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.31
4:X:451:GLU:CA	4:X:451:GLU:C	2.02	1.31
2:O:589:ASN:O	1:W:850:ALA:N	1.63	1.31
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.31
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.31
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.31
4:F:451:GLU:CA	4:F:451:GLU:C	2.02	1.31
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.31
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.31
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.31
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.31
5:Y:327:ARG:CA	5:Y:327:ARG:C	2.01	1.31
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.31
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.31
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.31
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.31
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.31
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.31
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.31
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.31
2:C:534:LEU:CB	3:D:1667:ALA:N	1.92	1.30
2:C:302:PRO:O	1:Q:849:ASN:CB	1.79	1.30
2:C:785:LEU:CB	1:K:132:GLY:O	1.79	1.30
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.30
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.30
2:C:302:PRO:O	1:Q:849:ASN:CB	1.79	1.30
2:C:785:LEU:CB	1:K:132:GLY:O	1.79	1.30
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.30
2:C:302:PRO:O	1:Q:849:ASN:CB	1.79	1.30
2:C:785:LEU:CB	1:K:132:GLY:O	1.79	1.30
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.30
2:C:302:PRO:O	1:Q:849:ASN:CB	1.79	1.30
2:C:785:LEU:CB	1:K:132:GLY:O	1.79	1.30
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:785:LEU:CB	1:K:132:GLY:O	1.79	1.30
4:L:451:GLU:CA	4:L:451:GLU:C	2.02	1.30
2:C:785:LEU:CB	1:K:132:GLY:O	1.79	1.30
2:C:303:ALA:HB1	1:Q:849:ASN:CB	1.50	1.30
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.30
1:Q:1348:ARG:CB	1:W:957:GLU:CB	2.06	1.30
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.30
1:Q:1348:ARG:CB	1:W:957:GLU:CB	2.06	1.30
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.30
1:Q:1348:ARG:CB	1:W:957:GLU:CB	2.06	1.30
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.30
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.30
1:Q:1348:ARG:CB	1:W:957:GLU:CB	2.06	1.30
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.30
2:C:303:ALA:CB	1:Q:848:ASP:CB	2.08	1.30
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.30
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.30
2:C:303:ALA:CB	1:Q:848:ASP:CB	2.08	1.30
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.30
4:R:399:SER:C	4:R:400:GLY:CA	2.04	1.30
2:U:622:PHE:CB	3:V:1450:GLU:N	1.94	1.30
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.30
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.93	1.30
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.30
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.30
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.93	1.30
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.30
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.94	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.94	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.94	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.94	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.94	1.30
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.30
5:M:341:ALA:N	5:M:341:ALA:CA	1.93	1.29
1:Q:1263:PRO:CB	3:V:692:ASN:CB	2.08	1.29
5:M:341:ALA:N	5:M:341:ALA:CA	1.93	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.29
1:E:848:ASP:CB	2:O:303:ALA:CB	2.08	1.29
1:E:848:ASP:CB	2:O:303:ALA:CB	2.08	1.29
5:M:341:ALA:N	5:M:341:ALA:CA	1.93	1.29
4:X:399:SER:C	4:X:400:GLY:CA	2.04	1.29
2:C:530:ARG:O	3:D:1664:ASP:CA	1.77	1.29
4:F:399:SER:C	4:F:400:GLY:CA	2.04	1.29
1:Q:1354:LEU:O	3:V:872:LEU:CA	1.80	1.29
5:Y:341:ALA:N	5:Y:341:ALA:CA	1.94	1.29
2:U:617:GLU:O	3:V:1446:LYS:CB	1.79	1.28
3:D:1450:GLU:CB	3:P:1446:LYS:CA	2.11	1.28
3:D:1450:GLU:CB	3:P:1446:LYS:CA	2.11	1.28
3:D:1450:GLU:CB	3:P:1446:LYS:CA	2.11	1.28
3:D:1450:GLU:CB	3:P:1446:LYS:CA	2.11	1.28
2:U:644:LYS:O	3:V:1451:ARG:CB	1.71	1.28
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.28
5:G:341:ALA:N	5:G:341:ALA:CA	1.94	1.28
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.28
4:L:399:SER:C	4:L:400:GLY:CA	2.04	1.28
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.28
5:S:341:ALA:N	5:S:341:ALA:CA	1.94	1.28
2:C:524:ARG:CB	3:D:1609:ILE:CB	2.11	1.28
2:I:621:LEU:C	3:J:1449:TRP:CB	2.07	1.28
2:I:644:LYS:H	3:J:1453:THR:CA	1.41	1.28
3:D:1472:SER:CA	3:P:1474:GLY:HA3	1.54	1.28
3:D:1472:SER:CA	3:P:1474:GLY:HA3	1.54	1.28
3:D:1472:SER:CA	3:P:1474:GLY:HA3	1.54	1.28
3:D:1472:SER:CA	3:P:1474:GLY:HA3	1.54	1.28
2:C:780:ASP:HA	1:K:136:TYR:CB	1.63	1.27
2:C:780:ASP:HA	1:K:136:TYR:CB	1.63	1.27
2:C:780:ASP:HA	1:K:136:TYR:CB	1.63	1.27
2:C:173:PRO:O	3:D:1682:LYS:HA	1.33	1.27
2:C:780:ASP:HA	1:K:136:TYR:CB	1.63	1.27
2:C:173:PRO:O	3:D:1682:LYS:HA	1.33	1.27
2:C:780:ASP:HA	1:K:136:TYR:CB	1.63	1.27
2:C:780:ASP:HA	1:K:136:TYR:CB	1.63	1.27
2:C:785:LEU:CA	1:K:132:GLY:O	1.82	1.27
2:C:785:LEU:CA	1:K:132:GLY:O	1.82	1.27
2:C:785:LEU:CA	1:K:132:GLY:O	1.82	1.27
2:C:785:LEU:CA	1:K:132:GLY:O	1.82	1.27
2:C:785:LEU:CA	1:K:132:GLY:O	1.82	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:785:LEU:CA	1:K:132:GLY:O	1.82	1.27
2:C:531:LEU:O	3:D:1663:GLN:CB	1.81	1.27
2:C:674:TYR:CB	1:K:849:ASN:CA	2.08	1.27
2:O:173:PRO:CB	3:P:1687:GLY:H	1.46	1.27
2:O:173:PRO:CB	3:P:1687:GLY:H	1.46	1.27
2:C:677:GLN:HA	1:K:796:LYS:O	1.12	1.26
2:C:677:GLN:HA	1:K:796:LYS:O	1.12	1.26
2:C:677:GLN:HA	1:K:796:LYS:O	1.12	1.26
2:C:677:GLN:HA	1:K:796:LYS:O	1.12	1.26
2:C:677:GLN:HA	1:K:796:LYS:O	1.12	1.26
2:C:677:GLN:HA	1:K:796:LYS:O	1.12	1.26
3:D:1446:LYS:CA	3:P:1450:GLU:CB	2.13	1.26
3:D:1446:LYS:CA	3:P:1450:GLU:CB	2.13	1.26
3:D:1446:LYS:CA	3:P:1450:GLU:CB	2.13	1.26
3:D:1446:LYS:CA	3:P:1450:GLU:CB	2.13	1.26
2:C:722:LEU:HA	1:K:130:ASP:O	1.32	1.26
3:D:1450:GLU:CB	3:P:1446:LYS:HA	1.64	1.26
2:O:677:GLN:HA	1:W:796:LYS:O	1.08	1.26
2:C:722:LEU:HA	1:K:130:ASP:O	1.32	1.26
3:D:1450:GLU:CB	3:P:1446:LYS:HA	1.64	1.26
2:O:677:GLN:HA	1:W:796:LYS:O	1.08	1.26
2:C:722:LEU:HA	1:K:130:ASP:O	1.32	1.26
3:D:1450:GLU:CB	3:P:1446:LYS:HA	1.64	1.26
2:O:677:GLN:HA	1:W:796:LYS:O	1.08	1.26
2:C:722:LEU:HA	1:K:130:ASP:O	1.32	1.26
2:O:677:GLN:HA	1:W:796:LYS:O	1.08	1.26
2:C:722:LEU:HA	1:K:130:ASP:O	1.32	1.26
2:O:677:GLN:HA	1:W:796:LYS:O	1.08	1.26
2:C:722:LEU:HA	1:K:130:ASP:O	1.32	1.26
3:D:1450:GLU:CB	3:P:1446:LYS:HA	1.64	1.26
2:O:677:GLN:HA	1:W:796:LYS:O	1.08	1.26
4:R:222:THR:CA	4:R:222:THR:N	1.99	1.25
1:E:852:VAL:CB	2:O:304:PRO:CB	2.13	1.25
4:L:222:THR:CA	4:L:222:THR:N	1.99	1.25
2:C:305:LEU:N	1:Q:852:VAL:N	1.82	1.25
2:C:305:LEU:N	1:Q:852:VAL:N	1.82	1.25
2:C:305:LEU:N	1:Q:852:VAL:N	1.82	1.25
2:C:305:LEU:N	1:Q:852:VAL:N	1.82	1.25
3:D:1446:LYS:HA	3:P:1450:GLU:CB	1.66	1.25
3:D:1465:GLU:HA	3:P:1510:GLN:CB	1.67	1.25
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1446:LYS:HA	3:P:1450:GLU:CB	1.66	1.25
3:D:1465:GLU:HA	3:P:1510:GLN:CB	1.67	1.25
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.25
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.25
3:D:1446:LYS:HA	3:P:1450:GLU:CB	1.66	1.25
3:D:1465:GLU:HA	3:P:1510:GLN:CB	1.67	1.25
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.25
2:O:173:PRO:O	3:P:1682:LYS:HA	1.34	1.25
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.25
2:O:173:PRO:O	3:P:1682:LYS:HA	1.34	1.25
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.25
3:D:1446:LYS:HA	3:P:1450:GLU:CB	1.66	1.25
3:D:1465:GLU:HA	3:P:1510:GLN:CB	1.67	1.25
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.25
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.25
4:X:222:THR:CA	4:X:222:THR:N	1.99	1.24
4:F:222:THR:CA	4:F:222:THR:N	1.99	1.24
1:Q:1354:LEU:O	3:V:872:LEU:N	1.70	1.24
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.24
1:W:860:GLN:CA	1:W:871:ASP:CB	2.15	1.24
1:W:860:GLN:CA	1:W:871:ASP:CB	2.15	1.24
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.24
1:W:860:GLN:CA	1:W:871:ASP:CB	2.15	1.24
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.24
1:W:860:GLN:CA	1:W:871:ASP:CB	2.15	1.24
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.24
1:W:860:GLN:CA	1:W:871:ASP:CB	2.15	1.24
1:W:860:GLN:CA	1:W:871:ASP:CB	2.15	1.24
4:L:450:GLU:CB	4:L:451:GLU:N	2.00	1.24
2:O:677:GLN:HA	1:W:796:LYS:C	1.61	1.24
2:O:677:GLN:HA	1:W:796:LYS:C	1.61	1.24
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.24
2:O:677:GLN:HA	1:W:796:LYS:C	1.61	1.24
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.24
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.24
2:O:677:GLN:HA	1:W:796:LYS:C	1.61	1.24
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.24
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.24
2:O:677:GLN:HA	1:W:796:LYS:C	1.61	1.24
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.24
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:677:GLN:HA	1:W:796:LYS:C	1.61	1.24
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.24
1:E:1303:TYR:C	3:J:876:VAL:HA	1.62	1.24
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.24
4:X:450:GLU:CB	4:X:451:GLU:N	2.00	1.24
1:K:860:GLN:CA	1:K:871:ASP:CB	2.15	1.24
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.24
1:K:860:GLN:CA	1:K:871:ASP:CB	2.15	1.24
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.24
1:K:860:GLN:CA	1:K:871:ASP:CB	2.15	1.24
1:K:860:GLN:CA	1:K:871:ASP:CB	2.15	1.24
1:K:860:GLN:CA	1:K:871:ASP:CB	2.15	1.24
1:K:860:GLN:CA	1:K:871:ASP:CB	2.15	1.24
2:C:522:CYS:N	3:D:1662:CYS:CB	2.00	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
2:C:522:CYS:N	3:D:1662:CYS:CB	2.00	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
2:C:522:CYS:N	3:D:1662:CYS:CB	2.00	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
2:C:522:CYS:N	3:D:1662:CYS:CB	2.00	1.23
2:O:785:LEU:CB	1:W:132:GLY:O	1.86	1.23
3:P:880:GLU:C	6:T:412:GLU:HA	1.43	1.23
3:P:888:PRO:CB	6:T:406:LEU:HA	1.53	1.23
3:P:880:GLU:C	6:T:412:GLU:HA	1.43	1.23
3:P:888:PRO:CB	6:T:406:LEU:HA	1.53	1.23
2:C:173:PRO:CB	3:D:1687:GLY:N	1.94	1.23
2:C:173:PRO:CB	3:D:1687:GLY:N	1.94	1.23
1:Q:1264:LEU:CB	3:V:686:GLY:O	1.87	1.23
3:D:1510:GLN:CB	3:P:1465:GLU:HA	1.69	1.23
3:D:1510:GLN:CB	3:P:1465:GLU:HA	1.69	1.23
3:D:1510:GLN:CB	3:P:1465:GLU:HA	1.69	1.23
3:D:1510:GLN:CB	3:P:1465:GLU:HA	1.69	1.23
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.23
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.23
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.23
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.23
2:O:654:SER:O	3:P:1455:PRO:HA	1.06	1.23
4:R:450:GLU:CB	4:R:451:GLU:N	2.00	1.23
2:O:522:CYS:N	3:P:1662:CYS:CB	2.00	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.23
2:O:522:CYS:N	3:P:1662:CYS:CB	2.00	1.23
2:O:522:CYS:N	3:P:1662:CYS:CB	2.00	1.23
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.23
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.23
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.23
2:O:522:CYS:N	3:P:1662:CYS:CB	2.00	1.23
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.22
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.22
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.22
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.22
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.22
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.22
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.22
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.22
2:C:778:ILE:HA	1:K:138:ASP:C	1.63	1.22
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.22
2:C:778:ILE:HA	1:K:138:ASP:C	1.63	1.22
2:C:778:ILE:HA	1:K:138:ASP:C	1.63	1.22
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.22
2:C:778:ILE:HA	1:K:138:ASP:C	1.63	1.22
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.22
2:C:778:ILE:HA	1:K:138:ASP:C	1.63	1.22
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.22
2:C:778:ILE:HA	1:K:138:ASP:C	1.63	1.22
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.22
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.22
2:O:778:ILE:HA	1:W:138:ASP:C	1.64	1.22
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.22
2:O:778:ILE:HA	1:W:138:ASP:C	1.64	1.22
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.22
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.22
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.22
2:O:778:ILE:HA	1:W:138:ASP:C	1.64	1.22
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.22
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.22
2:O:778:ILE:HA	1:W:138:ASP:C	1.64	1.22
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.22
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.22
2:O:778:ILE:HA	1:W:138:ASP:C	1.64	1.22
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:778:ILE:HA	1:W:138:ASP:C	1.64	1.22
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.22
2:C:677:GLN:HA	1:K:796:LYS:C	1.65	1.22
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.22
2:C:677:GLN:HA	1:K:796:LYS:C	1.65	1.22
4:F:450:GLU:CB	4:F:451:GLU:N	2.00	1.22
2:C:677:GLN:HA	1:K:796:LYS:C	1.65	1.22
2:C:677:GLN:HA	1:K:796:LYS:C	1.65	1.22
2:C:677:GLN:HA	1:K:796:LYS:C	1.65	1.22
2:C:677:GLN:HA	1:K:796:LYS:C	1.65	1.22
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.22
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.22
2:O:785:LEU:CA	1:W:132:GLY:O	1.85	1.22
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.22
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.22
2:O:785:LEU:CA	1:W:132:GLY:O	1.85	1.22
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.22
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.22
2:O:785:LEU:CA	1:W:132:GLY:O	1.85	1.22
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.22
2:O:785:LEU:CA	1:W:132:GLY:O	1.85	1.22
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.22
2:O:785:LEU:CA	1:W:132:GLY:O	1.85	1.22
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.22
2:O:785:LEU:CA	1:W:132:GLY:O	1.85	1.22
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.22
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.21
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.21
4:R:487:ASP:CA	4:R:487:ASP:C	2.13	1.21
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.21
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.21
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.21
4:X:487:ASP:CA	4:X:487:ASP:C	2.13	1.21
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.21
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.21
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.21
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.21
4:F:456:ASP:C	4:F:456:ASP:CB	2.12	1.21
5:M:379:HIS:C	5:M:380:ILE:N	1.99	1.21
4:R:456:ASP:C	4:R:456:ASP:CB	2.12	1.21
3:D:1449:TRP:CB	3:P:1449:TRP:CA	2.16	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1449:TRP:CA	3:P:1449:TRP:CB	2.17	1.21
3:D:1449:TRP:CB	3:P:1449:TRP:CA	2.16	1.21
3:D:1449:TRP:CA	3:P:1449:TRP:CB	2.17	1.21
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.21
3:D:1449:TRP:CB	3:P:1449:TRP:CA	2.16	1.21
3:D:1449:TRP:CA	3:P:1449:TRP:CB	2.17	1.21
5:S:379:HIS:C	5:S:380:ILE:N	1.99	1.21
5:S:379:HIS:C	5:S:380:ILE:N	1.99	1.21
5:S:379:HIS:C	5:S:380:ILE:N	1.99	1.21
3:D:1449:TRP:CB	3:P:1449:TRP:CA	2.16	1.21
3:D:1449:TRP:CA	3:P:1449:TRP:CB	2.17	1.21
4:L:487:ASP:C	4:L:487:ASP:CA	2.13	1.21
5:S:379:HIS:C	5:S:380:ILE:N	1.99	1.21
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.21
3:D:1474:GLY:HA3	3:P:1472:SER:CA	1.56	1.21
5:G:379:HIS:C	5:G:380:ILE:N	1.99	1.21
3:D:1474:GLY:HA3	3:P:1472:SER:CA	1.56	1.21
5:G:379:HIS:C	5:G:380:ILE:N	1.99	1.21
3:D:1474:GLY:HA3	3:P:1472:SER:CA	1.56	1.21
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.21
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.21
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.21
3:D:1474:GLY:HA3	3:P:1472:SER:CA	1.56	1.21
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.21
5:G:379:HIS:C	5:G:380:ILE:N	1.98	1.21
4:L:456:ASP:C	4:L:456:ASP:CB	2.12	1.21
1:E:849:ASN:CB	2:O:302:PRO:O	1.89	1.21
5:M:379:HIS:C	5:M:380:ILE:N	1.98	1.21
1:E:849:ASN:CB	2:O:302:PRO:O	1.89	1.21
1:E:849:ASN:CB	2:O:302:PRO:O	1.89	1.21
5:M:379:HIS:C	5:M:380:ILE:N	1.98	1.21
1:E:849:ASN:CB	2:O:302:PRO:O	1.89	1.21
5:M:379:HIS:C	5:M:380:ILE:N	1.98	1.21
5:M:379:HIS:C	5:M:380:ILE:N	1.98	1.21
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.20
4:F:487:ASP:C	4:F:487:ASP:CA	2.13	1.20
5:M:379:HIS:C	5:M:380:ILE:N	1.99	1.20
5:M:379:HIS:C	5:M:380:ILE:N	1.99	1.20
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.20
5:G:379:HIS:C	5:G:380:ILE:N	1.99	1.20
5:G:379:HIS:C	5:G:380:ILE:N	1.99	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:379:HIS:C	5:G:380:ILE:N	1.99	1.20
5:G:379:HIS:C	5:G:380:ILE:N	1.99	1.20
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.20
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.20
2:O:654:SER:O	3:P:1455:PRO:CA	1.89	1.20
2:O:173:PRO:CB	3:P:1687:GLY:N	2.01	1.20
2:O:173:PRO:CB	3:P:1687:GLY:N	2.01	1.20
2:I:645:LEU:CB	3:J:1451:ARG:O	1.87	1.20
5:S:379:HIS:C	5:S:380:ILE:N	1.98	1.20
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.20
2:O:780:ASP:HA	1:W:136:TYR:CB	1.70	1.20
2:O:780:ASP:HA	1:W:136:TYR:CB	1.70	1.20
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.20
2:O:780:ASP:HA	1:W:136:TYR:CB	1.70	1.20
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.20
2:O:780:ASP:HA	1:W:136:TYR:CB	1.70	1.20
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.20
2:O:780:ASP:HA	1:W:136:TYR:CB	1.70	1.20
2:O:780:ASP:HA	1:W:136:TYR:CB	1.70	1.20
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.20
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.20
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.20
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.20
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.20
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.20
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.20
4:X:456:ASP:C	4:X:456:ASP:CB	2.12	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.19
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.19
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.19
5:S:339:TYR:C	5:S:340:ALA:CA	2.13	1.19
2:U:622:PHE:CB	3:V:1449:TRP:HA	1.70	1.19
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.19
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.19
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.19
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.19
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
5:G:339:TYR:C	5:G:340:ALA:CA	2.13	1.19
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.19
5:Y:379:HIS:C	5:Y:380:ILE:N	1.99	1.19
1:Q:1354:LEU:C	3:V:872:LEU:N	1.99	1.19
5:S:379:HIS:C	5:S:380:ILE:N	1.99	1.19
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.19
5:S:379:HIS:C	5:S:380:ILE:N	1.99	1.19
5:M:339:TYR:C	5:M:340:ALA:CA	2.13	1.19
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.19
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.19
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.19
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.19
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.19
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.19
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.19
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.19
5:Y:339:TYR:C	5:Y:340:ALA:CA	2.13	1.19
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.19
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.19
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.19
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.19
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.19
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.18
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.18
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.18
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.18
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.18
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.18
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.18
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.18
4:R:457:ALA:CB	4:R:457:ALA:N	2.05	1.18
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.18
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.18
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.18
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.18
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.18
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.18
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.18
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.18
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.18
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.18
3:P:880:GLU:O	6:T:412:GLU:HA	1.01	1.18
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.18
3:P:880:GLU:O	6:T:412:GLU:HA	1.01	1.18
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.18
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.18
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.18
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.18
4:F:450:GLU:O	4:F:451:GLU:HA	1.37	1.18
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.18
4:F:450:GLU:O	4:F:451:GLU:HA	1.37	1.18
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.18
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.18
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.18
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.18
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.18
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.18
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.18
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.18
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.18
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.18
4:F:457:ALA:CB	4:F:457:ALA:N	2.05	1.18
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.18
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.18
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.17
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.17
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.17
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.17
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.17
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.17
1:E:852:VAL:N	2:O:305:LEU:N	1.91	1.17
1:E:852:VAL:N	2:O:305:LEU:N	1.91	1.17
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.17
1:E:852:VAL:N	2:O:305:LEU:N	1.91	1.17
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.17
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.17
1:E:852:VAL:N	2:O:305:LEU:N	1.91	1.17
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.17
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.17
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.17
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.17
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.17
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.17
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.17
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.17
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.17
4:X:457:ALA:CB	4:X:457:ALA:N	2.05	1.17
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.17
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.17
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.17
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.17
4:R:450:GLU:CA	4:R:450:GLU:C	2.16	1.17
5:M:341:ALA:N	5:M:342:PRO:N	1.92	1.17
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.17
2:C:726:SER:HA	1:K:86:ARG:H	1.04	1.17
2:C:726:SER:HA	1:K:86:ARG:H	1.04	1.17
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.17
2:C:726:SER:HA	1:K:86:ARG:H	1.04	1.17
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.17
2:C:726:SER:HA	1:K:86:ARG:H	1.04	1.17
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.17
2:C:726:SER:HA	1:K:86:ARG:H	1.04	1.17
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.17
2:C:726:SER:HA	1:K:86:ARG:H	1.04	1.17
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.17
4:L:457:ALA:CB	4:L:457:ALA:N	2.05	1.17
2:C:524:ARG:O	3:D:1610:PRO:N	1.77	1.17
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.17
4:F:450:GLU:O	4:F:451:GLU:HA	1.37	1.17
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.17
4:F:450:GLU:O	4:F:451:GLU:HA	1.37	1.17
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.17
4:F:450:GLU:O	4:F:451:GLU:HA	1.37	1.17
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.17
4:F:450:GLU:O	4:F:451:GLU:HA	1.37	1.17
1:E:1304:ASP:N	3:J:876:VAL:CA	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:455:ILE:O	4:R:457:ALA:N	1.76	1.16
1:E:1348:ARG:HA	1:K:957:GLU:CB	1.75	1.16
1:E:1348:ARG:HA	1:K:957:GLU:CB	1.75	1.16
1:E:1348:ARG:HA	1:K:957:GLU:CB	1.75	1.16
1:E:1348:ARG:HA	1:K:957:GLU:CB	1.75	1.16
2:C:304:PRO:N	1:Q:849:ASN:HA	1.60	1.16
4:L:450:GLU:CA	4:L:450:GLU:C	2.16	1.16
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.16
4:F:450:GLU:CA	4:F:450:GLU:C	2.16	1.16
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.16
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.16
4:F:455:ILE:O	4:F:457:ALA:N	1.76	1.16
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.16
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.16
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.16
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.16
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.16
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.16
4:L:455:ILE:O	4:L:457:ALA:N	1.76	1.16
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.16
2:C:531:LEU:O	3:D:1664:ASP:N	1.79	1.16
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.16
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.16
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.16
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.16
4:X:455:ILE:O	4:X:457:ALA:N	1.76	1.16
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.16
1:E:1165:TYR:CA	1:K:727:PHE:CA	2.04	1.16
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.16
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.16
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.16
3:P:879:LEU:CB	6:T:415:LYS:O	1.94	1.16
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.16
3:P:879:LEU:CB	6:T:415:LYS:O	1.94	1.16
5:S:341:ALA:N	5:S:342:PRO:N	1.92	1.16
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.16
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.16
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.16
1:E:1169:SER:CB	1:K:575:ARG:CB	2.24	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
4:X:450:GLU:CA	4:X:450:GLU:C	2.16	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:341:ALA:N	5:Y:342:PRO:N	1.92	1.15
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.15
2:O:724:GLN:CB	1:W:508:SER:O	1.94	1.15
5:G:341:ALA:N	5:G:342:PRO:N	1.92	1.15
2:O:724:GLN:CB	1:W:508:SER:O	1.94	1.15
2:O:724:GLN:CB	1:W:508:SER:O	1.94	1.15
2:O:724:GLN:CB	1:W:508:SER:O	1.94	1.15
2:O:724:GLN:CB	1:W:508:SER:O	1.94	1.15
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.15
3:D:1468:ALA:CB	3:P:1511:GLN:N	2.08	1.15
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.15
3:D:1468:ALA:CB	3:P:1511:GLN:N	2.08	1.15
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.15
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.15
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.15
3:D:1468:ALA:CB	3:P:1511:GLN:N	2.08	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
3:D:1468:ALA:CB	3:P:1511:GLN:N	2.08	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.15
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.15
2:O:654:SER:CA	3:P:1454:ALA:O	1.95	1.15
1:Q:1302:VAL:CB	3:V:687:ILE:CA	2.23	1.15
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.15
2:C:522:CYS:N	3:D:1662:CYS:O	1.79	1.15
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.15
2:C:522:CYS:N	3:D:1662:CYS:O	1.79	1.15
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.15
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.15
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.15
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.15
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.15
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.15
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.15
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
5:Y:326:LEU:C	5:Y:326:LEU:CB	2.19	1.15
3:D:1511:GLN:N	3:P:1468:ALA:CB	2.09	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
3:D:1511:GLN:N	3:P:1468:ALA:CB	2.09	1.15
5:G:326:LEU:C	5:G:326:LEU:CB	2.19	1.15
4:L:450:GLU:O	4:L:451:GLU:HA	1.38	1.15
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.15
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
3:D:1511:GLN:N	3:P:1468:ALA:CB	2.09	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
3:D:1511:GLN:N	3:P:1468:ALA:CB	2.09	1.15
4:L:450:GLU:O	4:L:451:GLU:HA	1.38	1.15
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.15
4:X:493:HIS:CA	4:X:493:HIS:CB	2.25	1.15
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.14
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.14
2:U:642:MET:HA	3:V:1450:GLU:CB	1.76	1.14
2:U:642:MET:HA	3:V:1450:GLU:CB	1.76	1.14
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.14
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.14
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.14
2:U:642:MET:HA	3:V:1450:GLU:CB	1.76	1.14
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.14
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.14
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.14
2:U:642:MET:HA	3:V:1450:GLU:CB	1.76	1.14
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.14
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.14
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.14
2:U:642:MET:HA	3:V:1450:GLU:CB	1.76	1.14
4:R:493:HIS:CA	4:R:493:HIS:CB	2.25	1.14
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.14
2:U:642:MET:HA	3:V:1450:GLU:CB	1.76	1.14
1:E:1165:TYR:CB	1:K:727:PHE:CA	2.21	1.14
4:L:493:HIS:CA	4:L:493:HIS:CB	2.25	1.14
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.14
4:F:493:HIS:CA	4:F:493:HIS:CB	2.25	1.14
1:E:852:VAL:CB	2:O:304:PRO:HA	1.56	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:852:VAL:CB	2:O:304:PRO:HA	1.56	1.14
2:C:303:ALA:C	1:Q:849:ASN:CA	2.12	1.14
5:M:326:LEU:C	5:M:326:LEU:CB	2.19	1.14
2:I:642:MET:HA	3:J:1450:GLU:CB	1.76	1.14
2:I:642:MET:HA	3:J:1450:GLU:CB	1.76	1.14
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.14
2:I:642:MET:HA	3:J:1450:GLU:CB	1.76	1.14
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.14
2:I:642:MET:HA	3:J:1450:GLU:CB	1.76	1.14
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.14
2:I:642:MET:HA	3:J:1450:GLU:CB	1.76	1.14
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.14
2:I:642:MET:HA	3:J:1450:GLU:CB	1.76	1.14
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.14
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.14
3:D:1476:ALA:HB2	3:P:1476:ALA:CB	1.78	1.14
3:D:1476:ALA:HB2	3:P:1476:ALA:CB	1.78	1.14
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.14
3:D:1476:ALA:HB2	3:P:1476:ALA:CB	1.78	1.14
3:D:1476:ALA:HB2	3:P:1476:ALA:CB	1.78	1.14
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.14
1:Q:1263:PRO:CA	3:V:692:ASN:CB	2.26	1.14
1:Q:1355:ASP:HA	3:V:872:LEU:CA	1.78	1.14
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.14
2:C:724:GLN:CB	1:K:508:SER:O	1.95	1.14
1:E:849:ASN:O	2:O:304:PRO:CB	1.96	1.14
1:E:1348:ARG:CA	1:K:957:GLU:CB	2.26	1.14
2:C:724:GLN:CB	1:K:508:SER:O	1.95	1.14
1:E:849:ASN:O	2:O:304:PRO:CB	1.96	1.14
1:E:1348:ARG:CA	1:K:957:GLU:CB	2.26	1.14
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.14
2:C:724:GLN:CB	1:K:508:SER:O	1.95	1.14
1:E:849:ASN:O	2:O:304:PRO:CB	1.96	1.14
1:E:1348:ARG:CA	1:K:957:GLU:CB	2.26	1.14
2:C:724:GLN:CB	1:K:508:SER:O	1.95	1.14
1:E:849:ASN:O	2:O:304:PRO:CB	1.96	1.14
1:E:1348:ARG:CA	1:K:957:GLU:CB	2.26	1.14
2:C:724:GLN:CB	1:K:508:SER:O	1.95	1.14
2:C:724:GLN:CB	1:K:508:SER:O	1.95	1.14
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.14
4:L:450:GLU:O	4:L:451:GLU:HA	1.37	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1239:ASP:HA	1:W:572:ALA:HA	1.30	1.13
4:R:452:ARG:HA	4:R:453:TYR:CA	1.76	1.13
1:Q:1239:ASP:HA	1:W:572:ALA:HA	1.30	1.13
4:R:452:ARG:HA	4:R:453:TYR:CA	1.76	1.13
1:Q:1239:ASP:HA	1:W:572:ALA:HA	1.30	1.13
1:Q:1239:ASP:HA	1:W:572:ALA:HA	1.30	1.13
2:C:304:PRO:HA	1:Q:852:VAL:CB	1.56	1.13
2:C:304:PRO:HA	1:Q:852:VAL:CB	1.56	1.13
1:E:1304:ASP:N	3:J:876:VAL:HA	1.03	1.13
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
5:S:326:LEU:C	5:S:326:LEU:CB	2.19	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
2:C:785:LEU:HA	1:K:132:GLY:O	1.42	1.13
2:O:786:ARG:CA	1:W:92:GLU:CB	2.27	1.13
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.13
2:O:783:SER:N	1:W:92:GLU:CB	1.87	1.13
3:D:1476:ALA:CB	3:P:1476:ALA:HB2	1.78	1.13
3:D:1476:ALA:CB	3:P:1476:ALA:HB2	1.78	1.13
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.13
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.13
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.13
3:D:1476:ALA:CB	3:P:1476:ALA:HB2	1.78	1.13
3:D:1476:ALA:CB	3:P:1476:ALA:HB2	1.78	1.13
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.13
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.13
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.13
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.13
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	1.13
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.13
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	1.13
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	1.13
4:X:450:GLU:O	4:X:451:GLU:HA	1.38	1.13
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	1.13
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.13
2:O:726:SER:HA	1:W:86:ARG:H	0.97	1.12
2:O:726:SER:HA	1:W:86:ARG:H	0.97	1.12
2:O:726:SER:HA	1:W:86:ARG:H	0.97	1.12
2:O:726:SER:HA	1:W:86:ARG:H	0.97	1.12
2:O:726:SER:HA	1:W:86:ARG:H	0.97	1.12
2:O:726:SER:HA	1:W:86:ARG:H	0.97	1.12
4:R:452:ARG:HA	4:R:453:TYR:CA	1.76	1.12
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.12
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.12
2:I:739:ASP:H	3:J:1454:ALA:CB	1.61	1.12
2:O:784:GLN:O	1:W:134:LEU:CB	1.97	1.12
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.12
2:I:739:ASP:H	3:J:1454:ALA:CB	1.61	1.12
2:O:784:GLN:O	1:W:134:LEU:CB	1.97	1.12
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.12
2:I:739:ASP:H	3:J:1454:ALA:CB	1.61	1.12
2:O:784:GLN:O	1:W:134:LEU:CB	1.97	1.12
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.12
2:I:739:ASP:H	3:J:1454:ALA:CB	1.61	1.12
2:O:784:GLN:O	1:W:134:LEU:CB	1.97	1.12
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.12
2:I:739:ASP:H	3:J:1454:ALA:CB	1.61	1.12
2:O:784:GLN:O	1:W:134:LEU:CB	1.97	1.12
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.12
2:I:739:ASP:H	3:J:1454:ALA:CB	1.61	1.12
2:O:784:GLN:O	1:W:134:LEU:CB	1.97	1.12
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.12
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.12
1:E:850:ALA:C	2:O:304:PRO:CB	2.22	1.12
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.12
1:E:850:ALA:C	2:O:304:PRO:CB	2.22	1.12
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.12
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.12
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.12
6:T:490:GLN:CB	6:T:490:GLN:C	2.21	1.12
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.12
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:490:GLN:CB	6:N:490:GLN:C	2.21	1.12
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.12
2:O:779:GLU:CB	1:W:136:TYR:CB	2.27	1.12
2:C:530:ARG:O	3:D:1664:ASP:HA	0.95	1.11
1:Q:1354:LEU:O	3:V:869:GLU:O	1.56	1.11
1:Q:1233:VAL:CB	1:W:580:ALA:H	1.63	1.11
1:Q:1233:VAL:CB	1:W:580:ALA:H	1.63	1.11
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.11
1:Q:1233:VAL:CB	1:W:580:ALA:H	1.63	1.11
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.11
1:Q:1233:VAL:CB	1:W:580:ALA:H	1.63	1.11
1:E:1344:CYS:CB	1:K:958:ASP:O	1.98	1.11
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.11
1:E:1344:CYS:CB	1:K:958:ASP:O	1.98	1.11
6:H:490:GLN:CB	6:H:490:GLN:C	2.21	1.11
2:U:739:ASP:H	3:V:1454:ALA:CB	1.61	1.11
2:U:739:ASP:H	3:V:1454:ALA:CB	1.61	1.11
2:U:739:ASP:H	3:V:1454:ALA:CB	1.61	1.11
2:U:739:ASP:H	3:V:1454:ALA:CB	1.61	1.11
2:U:739:ASP:H	3:V:1454:ALA:CB	1.61	1.11
2:U:739:ASP:H	3:V:1454:ALA:CB	1.61	1.11
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.11
2:C:304:PRO:C	1:Q:847:ARG:CB	2.22	1.11
3:D:1474:GLY:CA	3:P:1472:SER:HA	1.79	1.11
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.11
2:C:304:PRO:C	1:Q:847:ARG:CB	2.22	1.11
3:D:1474:GLY:CA	3:P:1472:SER:HA	1.79	1.11
2:C:304:PRO:C	1:Q:847:ARG:CB	2.22	1.11
3:D:1474:GLY:CA	3:P:1472:SER:HA	1.79	1.11
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.11
2:C:304:PRO:C	1:Q:847:ARG:CB	2.22	1.11
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.11
5:Y:327:ARG:N	5:Y:327:ARG:HA	1.56	1.11
3:D:1474:GLY:CA	3:P:1472:SER:HA	1.79	1.11
4:F:450:GLU:O	4:F:451:GLU:HA	1.38	1.11
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.11
2:C:677:GLN:O	1:K:852:VAL:CB	1.97	1.11
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.11
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.11
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.11
1:Q:1344:CYS:CB	1:W:958:ASP:O	1.98	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:490:GLN:CB	6:Z:490:GLN:C	2.21	1.11
1:Q:1344:CYS:CB	1:W:958:ASP:O	1.98	1.11
3:D:1468:ALA:HB3	3:P:1511:GLN:N	1.66	1.10
3:D:1468:ALA:HB3	3:P:1511:GLN:N	1.66	1.10
3:D:1468:ALA:HB3	3:P:1511:GLN:N	1.66	1.10
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.10
2:O:522:CYS:N	3:P:1662:CYS:O	1.84	1.10
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.10
2:O:522:CYS:N	3:P:1662:CYS:O	1.84	1.10
1:Q:1273:GLN:CB	3:V:286:GLN:CB	2.29	1.10
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.10
3:D:1468:ALA:HB3	3:P:1511:GLN:N	1.66	1.10
1:Q:1273:GLN:CB	3:V:286:GLN:CB	2.29	1.10
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.10
2:C:674:TYR:CB	1:K:849:ASN:CB	2.29	1.10
1:Q:1357:VAL:CB	3:V:876:VAL:O	1.98	1.10
2:C:786:ARG:CA	1:K:92:GLU:CB	2.30	1.10
2:C:786:ARG:CA	1:K:92:GLU:CB	2.30	1.10
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.10
2:C:786:ARG:CA	1:K:92:GLU:CB	2.30	1.10
2:C:786:ARG:CA	1:K:92:GLU:CB	2.30	1.10
2:C:304:PRO:CB	1:Q:853:ASP:N	2.13	1.10
2:C:786:ARG:CA	1:K:92:GLU:CB	2.30	1.10
1:E:1310:ARG:HA	3:J:245:ASP:CB	1.80	1.10
1:Q:1310:ARG:HA	3:V:245:ASP:CB	1.80	1.10
2:C:304:PRO:CB	1:Q:853:ASP:N	2.13	1.10
2:C:786:ARG:CA	1:K:92:GLU:CB	2.30	1.10
1:E:1310:ARG:HA	3:J:245:ASP:CB	1.80	1.10
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.10
1:Q:1310:ARG:HA	3:V:245:ASP:CB	1.80	1.10
4:L:450:GLU:O	4:L:451:GLU:HA	1.38	1.10
4:L:450:GLU:O	4:L:451:GLU:HA	1.38	1.10
4:L:450:GLU:O	4:L:451:GLU:HA	1.38	1.10
1:E:1273:GLN:CB	3:J:286:GLN:CB	2.29	1.10
4:L:450:GLU:O	4:L:451:GLU:HA	1.38	1.10
1:E:1273:GLN:CB	3:J:286:GLN:CB	2.29	1.10
1:E:848:ASP:HA	2:O:303:ALA:HB1	1.34	1.10
2:I:618:ASN:O	3:J:1445:LYS:CB	1.98	1.10
4:R:402:ALA:HB3	4:R:403:ILE:N	1.12	1.10
4:R:402:ALA:HB3	4:R:403:ILE:N	1.11	1.10
4:R:402:ALA:HB3	4:R:403:ILE:N	1.11	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:644:LYS:N	3:J:1453:THR:HA	1.50	1.09
2:U:622:PHE:CB	3:V:1449:TRP:CA	2.30	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
2:C:780:ASP:CA	1:K:136:TYR:CB	2.28	1.09
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.09
2:O:784:GLN:C	1:W:134:LEU:CB	2.23	1.09
1:Q:1304:ASP:O	3:V:733:ASP:CB	2.00	1.09
1:Q:1306:LEU:O	3:V:731:GLY:C	1.95	1.09
4:R:450:GLU:O	4:R:451:GLU:HA	1.37	1.09
3:D:1511:GLN:N	3:P:1468:ALA:HB3	1.68	1.09
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.09
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.09
4:X:454:TYR:HA	4:X:455:ILE:N	1.67	1.09
3:D:1511:GLN:N	3:P:1468:ALA:HB3	1.68	1.09
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.09
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.09
3:D:1511:GLN:N	3:P:1468:ALA:HB3	1.68	1.09
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.09
4:R:402:ALA:HB3	4:R:403:ILE:N	1.11	1.09
4:X:454:TYR:HA	4:X:455:ILE:N	1.67	1.09
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.09
4:R:402:ALA:HB3	4:R:403:ILE:N	1.11	1.09
4:X:454:TYR:HA	4:X:455:ILE:N	1.67	1.09
1:E:853:ASP:N	2:O:304:PRO:CB	2.13	1.09
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.09
4:R:402:ALA:HB3	4:R:403:ILE:N	1.11	1.09
4:X:454:TYR:HA	4:X:455:ILE:N	1.67	1.09
3:D:1511:GLN:N	3:P:1468:ALA:HB3	1.68	1.09
1:E:853:ASP:N	2:O:304:PRO:CB	2.13	1.09
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.09
4:R:402:ALA:HB3	4:R:403:ILE:N	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:483:GLU:CB	3:D:1658:ALA:CA	2.30	1.09
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.09
2:C:784:GLN:O	1:K:134:LEU:CB	2.00	1.09
1:E:852:VAL:N	2:O:304:PRO:C	1.93	1.09
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.09
4:L:451:GLU:C	4:L:451:GLU:HA	1.77	1.09
2:O:677:GLN:CA	1:W:796:LYS:O	2.00	1.09
2:C:784:GLN:O	1:K:134:LEU:CB	2.00	1.09
1:E:852:VAL:N	2:O:304:PRO:C	1.93	1.09
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.09
2:O:677:GLN:CA	1:W:796:LYS:O	2.00	1.09
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.09
2:C:784:GLN:O	1:K:134:LEU:CB	2.00	1.09
1:E:852:VAL:N	2:O:304:PRO:C	1.93	1.09
4:L:451:GLU:C	4:L:451:GLU:HA	1.77	1.09
2:O:677:GLN:CA	1:W:796:LYS:O	2.00	1.09
2:C:784:GLN:O	1:K:134:LEU:CB	2.00	1.09
1:E:852:VAL:N	2:O:304:PRO:C	1.93	1.09
4:L:451:GLU:C	4:L:451:GLU:HA	1.77	1.09
2:O:677:GLN:CA	1:W:796:LYS:O	2.00	1.09
2:C:304:PRO:CB	1:Q:850:ALA:C	2.22	1.09
2:C:784:GLN:O	1:K:134:LEU:CB	2.00	1.09
4:L:451:GLU:C	4:L:451:GLU:HA	1.77	1.09
2:O:677:GLN:CA	1:W:796:LYS:O	2.00	1.09
2:C:304:PRO:CB	1:Q:850:ALA:C	2.22	1.09
2:C:784:GLN:O	1:K:134:LEU:CB	2.00	1.09
2:O:677:GLN:CA	1:W:796:LYS:O	2.00	1.09
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.09
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.09
4:X:402:ALA:HB3	4:X:403:ILE:N	1.11	1.09
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.09
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.09
2:C:304:PRO:CB	1:Q:853:ASP:H	1.63	1.09
2:C:304:PRO:CB	1:Q:853:ASP:H	1.63	1.09
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.09
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.09
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.09
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.09
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.09
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.09
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.09
4:X:454:TYR:HA	4:X:455:ILE:N	1.67	1.09
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.09
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.09
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.09
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.09
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.09
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.09
1:E:853:ASP:H	2:O:304:PRO:CB	1.64	1.09
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.09
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.09
5:M:327:ARG:N	5:M:327:ARG:HA	1.56	1.09
1:E:853:ASP:H	2:O:304:PRO:CB	1.64	1.09
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.09
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.09
4:X:454:TYR:HA	4:X:455:ILE:N	1.67	1.09
2:C:676:ALA:CB	1:K:846:ILE:O	1.99	1.08
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.08
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.08
4:L:402:ALA:HB3	4:L:403:ILE:N	1.11	1.08
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.08
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.08
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.08
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.08
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.08
1:W:860:GLN:HA	1:W:871:ASP:CB	1.80	1.08
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.08
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.08
1:W:860:GLN:HA	1:W:871:ASP:CB	1.80	1.08
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.08
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.08
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.08
1:W:860:GLN:HA	1:W:871:ASP:CB	1.80	1.08
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.08
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.08
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.08
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.08
1:W:860:GLN:HA	1:W:871:ASP:CB	1.80	1.08
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.08
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.08
4:L:452:ARG:HA	4:L:453:TYR:CA	1.77	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:411:GLU:C	6:N:411:GLU:CA	2.26	1.08
1:W:860:GLN:HA	1:W:871:ASP:CB	1.80	1.08
6:Z:411:GLU:C	6:Z:411:GLU:CA	2.26	1.08
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.08
1:W:860:GLN:HA	1:W:871:ASP:CB	1.80	1.08
2:C:538:LYS:CB	3:D:1671:GLN:HA	1.78	1.08
2:O:783:SER:CB	1:W:91:PRO:CA	2.31	1.08
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.08
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.08
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.08
2:C:303:ALA:O	1:Q:848:ASP:N	1.65	1.08
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.08
2:C:303:ALA:O	1:Q:848:ASP:N	1.65	1.08
4:L:454:TYR:HA	4:L:455:ILE:N	1.67	1.08
6:T:411:GLU:C	6:T:411:GLU:CA	2.26	1.08
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.08
1:Q:1263:PRO:HA	3:V:692:ASN:CB	1.82	1.08
3:D:1468:ALA:HB3	3:P:1511:GLN:CA	1.79	1.08
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.08
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.08
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.08
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.08
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.08
3:D:1468:ALA:HB3	3:P:1511:GLN:CA	1.79	1.08
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.08
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.08
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.08
3:D:1468:ALA:HB3	3:P:1511:GLN:CA	1.79	1.08
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.08
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.08
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.08
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.08
4:L:400:GLY:C	4:L:401:TYR:CA	2.26	1.08
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.08
3:D:1468:ALA:HB3	3:P:1511:GLN:CA	1.79	1.08
2:I:622:PHE:N	3:J:1449:TRP:CB	2.16	1.08
1:Q:1364:LEU:O	3:V:880:GLU:CB	2.01	1.08
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.08
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.08
3:D:1476:ALA:CA	3:P:1476:ALA:HB2	1.82	1.08
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.08
3:D:1476:ALA:CA	3:P:1476:ALA:HB2	1.82	1.08
5:G:327:ARG:N	5:G:327:ARG:HA	1.56	1.08
5:S:327:ARG:N	5:S:327:ARG:HA	1.56	1.08
3:D:1476:ALA:CA	3:P:1476:ALA:HB2	1.82	1.08
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.08
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.08
1:E:848:ASP:CB	2:O:303:ALA:HB3	1.54	1.08
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.08
3:D:1476:ALA:CA	3:P:1476:ALA:HB2	1.82	1.08
1:E:848:ASP:CB	2:O:303:ALA:HB3	1.54	1.08
6:H:411:GLU:C	6:H:411:GLU:CA	2.26	1.08
4:F:400:GLY:C	4:F:401:TYR:CA	2.26	1.08
3:D:1476:ALA:HB2	3:P:1476:ALA:CA	1.83	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
3:P:884:GLN:HA	6:T:409:PRO:C	1.70	1.08
1:Q:1348:ARG:CA	1:W:957:GLU:CB	2.32	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08
3:D:1476:ALA:HB2	3:P:1476:ALA:CA	1.83	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
3:P:884:GLN:HA	6:T:409:PRO:C	1.70	1.08
1:Q:1348:ARG:CA	1:W:957:GLU:CB	2.32	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08
3:D:1476:ALA:HB2	3:P:1476:ALA:CA	1.83	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
1:Q:1348:ARG:CA	1:W:957:GLU:CB	2.32	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
1:Q:1348:ARG:CA	1:W:957:GLU:CB	2.32	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08
3:D:1476:ALA:HB2	3:P:1476:ALA:CA	1.83	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08
3:D:1476:ALA:HB2	3:P:1476:ALA:CA	1.83	1.08
2:I:645:LEU:H	3:J:1450:GLU:CA	1.66	1.08
2:O:726:SER:HA	1:W:86:ARG:N	1.66	1.08
4:R:400:GLY:C	4:R:401:TYR:CA	2.26	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:452:ARG:HA	4:F:453:TYR:CA	1.77	1.07
4:X:400:GLY:C	4:X:401:TYR:CA	2.26	1.07
1:E:1308:LYS:CB	3:J:173:PHE:O	2.01	1.07
2:U:645:LEU:H	3:V:1450:GLU:CA	1.66	1.07
1:E:1308:LYS:CB	3:J:173:PHE:O	2.01	1.07
2:U:645:LEU:H	3:V:1450:GLU:CA	1.66	1.07
1:E:1308:LYS:CB	3:J:173:PHE:O	2.01	1.07
2:U:645:LEU:H	3:V:1450:GLU:CA	1.66	1.07
1:E:1308:LYS:CB	3:J:173:PHE:O	2.01	1.07
2:U:645:LEU:H	3:V:1450:GLU:CA	1.66	1.07
2:U:645:LEU:H	3:V:1450:GLU:CA	1.66	1.07
2:U:645:LEU:H	3:V:1450:GLU:CA	1.66	1.07
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.07
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.07
2:O:654:SER:O	3:P:1454:ALA:O	1.64	1.07
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.07
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.07
4:X:451:GLU:C	4:X:451:GLU:HA	1.77	1.07
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.07
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.07
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.07
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.07
4:X:451:GLU:C	4:X:451:GLU:HA	1.77	1.07
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.07
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.07
4:X:451:GLU:C	4:X:451:GLU:HA	1.77	1.07
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.07
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.07
4:X:451:GLU:C	4:X:451:GLU:HA	1.77	1.07
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.07
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.07
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.07
1:E:1300:LEU:O	3:J:876:VAL:O	1.69	1.07
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.07
2:I:645:LEU:HA	3:J:1451:ARG:CB	1.83	1.07
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.07
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.07
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.07
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.07
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.07
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.07
2:O:173:PRO:O	3:P:1682:LYS:CA	2.03	1.07
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.07
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.07
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.07
2:O:173:PRO:O	3:P:1682:LYS:CA	2.03	1.07
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.07
6:H:408:SER:HA	6:H:410:LEU:H	1.18	1.07
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.07
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.07
2:C:303:ALA:HB2	1:Q:849:ASN:CB	1.85	1.07
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.07
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.07
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.07
4:X:454:TYR:HA	4:X:455:ILE:N	1.66	1.07
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.07
1:K:860:GLN:HA	1:K:871:ASP:CB	1.80	1.07
1:Q:1348:ARG:HA	1:W:957:GLU:CB	1.84	1.07
4:F:402:ALA:HB3	4:F:403:ILE:N	1.11	1.07
1:K:860:GLN:HA	1:K:871:ASP:CB	1.80	1.07
1:Q:1348:ARG:HA	1:W:957:GLU:CB	1.84	1.07
1:K:860:GLN:HA	1:K:871:ASP:CB	1.80	1.07
1:Q:1348:ARG:HA	1:W:957:GLU:CB	1.84	1.07
2:C:173:PRO:O	3:D:1682:LYS:CA	2.02	1.07
1:K:860:GLN:HA	1:K:871:ASP:CB	1.80	1.07
1:Q:1348:ARG:HA	1:W:957:GLU:CB	1.84	1.07
2:C:173:PRO:O	3:D:1682:LYS:CA	2.02	1.07
2:C:303:ALA:HB3	1:Q:848:ASP:CB	1.54	1.07
1:K:860:GLN:HA	1:K:871:ASP:CB	1.80	1.07
2:C:303:ALA:HB3	1:Q:848:ASP:CB	1.54	1.07
1:K:860:GLN:HA	1:K:871:ASP:CB	1.80	1.07
1:Q:1285:VAL:O	3:V:680:SER:CB	2.02	1.06
1:Q:1286:ILE:CA	3:V:680:SER:CB	2.32	1.06
2:O:786:ARG:HA	1:W:92:GLU:CB	1.84	1.06
2:O:786:ARG:HA	1:W:92:GLU:CB	1.84	1.06
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.06
2:O:786:ARG:HA	1:W:92:GLU:CB	1.84	1.06
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.06
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.06
2:O:786:ARG:HA	1:W:92:GLU:CB	1.84	1.06
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.06
2:O:786:ARG:HA	1:W:92:GLU:CB	1.84	1.06
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.06
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.06
2:O:786:ARG:HA	1:W:92:GLU:CB	1.84	1.06
4:R:454:TYR:HA	4:R:455:ILE:N	1.67	1.06
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	1.06
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.06
2:C:784:GLN:C	1:K:134:LEU:CB	2.28	1.06
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.06
2:C:784:GLN:C	1:K:134:LEU:CB	2.28	1.06
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.06
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.06
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.06
2:C:784:GLN:C	1:K:134:LEU:CB	2.28	1.06
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.06
4:R:452:ARG:HA	4:R:453:TYR:CA	1.77	1.06
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.06
2:C:784:GLN:C	1:K:134:LEU:CB	2.28	1.06
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.06
4:R:452:ARG:HA	4:R:453:TYR:CA	1.77	1.06
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.06
2:C:784:GLN:C	1:K:134:LEU:CB	2.28	1.06
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.06
4:R:452:ARG:HA	4:R:453:TYR:CA	1.77	1.06
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.06
2:C:784:GLN:C	1:K:134:LEU:CB	2.28	1.06
4:F:454:TYR:HA	4:F:455:ILE:N	1.67	1.06
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.06
4:R:452:ARG:HA	4:R:453:TYR:CA	1.77	1.06
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.06
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.06
2:C:524:ARG:CB	3:D:1609:ILE:O	2.03	1.06
2:U:622:PHE:CB	3:V:1450:GLU:CA	2.33	1.06
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.06
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.06
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.06
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.06
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.06
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.06
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.06
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.06
5:Y:326:LEU:CA	5:Y:326:LEU:O	2.03	1.06
4:L:454:TYR:CB	4:L:454:TYR:N	2.17	1.06
6:T:408:SER:HA	6:T:410:LEU:H	1.18	1.06
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.06
4:X:451:GLU:C	4:X:451:GLU:HA	1.78	1.06
3:P:883:LEU:CB	6:T:411:GLU:CB	2.34	1.06
1:Q:1239:ASP:CB	1:W:572:ALA:O	2.04	1.06
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.06
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.06
3:P:883:LEU:CB	6:T:411:GLU:CB	2.34	1.06
1:Q:1239:ASP:CB	1:W:572:ALA:O	2.04	1.06
1:Q:1239:ASP:CB	1:W:572:ALA:O	2.04	1.06
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.06
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.06
1:Q:1239:ASP:CB	1:W:572:ALA:O	2.04	1.06
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.06
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.06
4:X:452:ARG:HA	4:X:453:TYR:CA	1.76	1.06
4:X:454:TYR:CB	4:X:454:TYR:N	2.17	1.06
4:L:451:GLU:C	4:L:451:GLU:HA	1.77	1.06
1:Q:1352:LEU:CB	3:V:871:GLN:H	1.67	1.06
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.06
2:I:643:ASN:CB	3:J:1452:LEU:C	2.10	1.06
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.06
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.06
4:R:451:GLU:C	4:R:451:GLU:HA	1.77	1.06
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.06
2:I:643:ASN:CB	3:J:1452:LEU:C	2.10	1.06
4:R:451:GLU:C	4:R:451:GLU:HA	1.77	1.06
2:I:643:ASN:CB	3:J:1452:LEU:C	2.10	1.06
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.06
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.06
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	1.06
2:I:643:ASN:CB	3:J:1452:LEU:C	2.10	1.06
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.06
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.06
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	1.06
2:I:643:ASN:CB	3:J:1452:LEU:C	2.10	1.06
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:402:ALA:CB	4:L:403:ILE:N	1.92	1.06
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	1.06
2:I:643:ASN:CB	3:J:1452:LEU:C	2.10	1.06
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	1.06
2:O:780:ASP:CA	1:W:136:TYR:CB	2.33	1.05
2:O:780:ASP:CA	1:W:136:TYR:CB	2.33	1.05
2:O:780:ASP:CA	1:W:136:TYR:CB	2.33	1.05
2:O:780:ASP:CA	1:W:136:TYR:CB	2.33	1.05
2:O:780:ASP:CA	1:W:136:TYR:CB	2.33	1.05
2:O:780:ASP:CA	1:W:136:TYR:CB	2.33	1.05
5:M:326:LEU:CA	5:M:326:LEU:O	2.03	1.05
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.05
4:L:451:GLU:C	4:L:451:GLU:HA	1.78	1.05
4:L:402:ALA:CB	4:L:403:ILE:H	1.56	1.05
4:L:451:GLU:C	4:L:451:GLU:HA	1.78	1.05
4:R:454:TYR:CB	4:R:454:TYR:N	2.17	1.05
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.05
3:D:1472:SER:HA	3:P:1474:GLY:CA	1.74	1.05
3:D:1472:SER:HA	3:P:1474:GLY:CA	1.74	1.05
3:D:1472:SER:HA	3:P:1474:GLY:CA	1.74	1.05
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.05
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.05
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.05
3:D:1472:SER:HA	3:P:1474:GLY:CA	1.74	1.05
4:F:454:TYR:CB	4:F:454:TYR:N	2.17	1.05
4:F:402:ALA:CB	4:F:403:ILE:N	1.92	1.05
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.05
2:O:781:ARG:H	1:W:136:TYR:HA	1.21	1.05
2:O:781:ARG:H	1:W:136:TYR:HA	1.21	1.05
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.05
2:O:781:ARG:H	1:W:136:TYR:HA	1.21	1.05
2:O:781:ARG:H	1:W:136:TYR:HA	1.21	1.05
2:O:781:ARG:H	1:W:136:TYR:HA	1.21	1.05
2:O:781:ARG:H	1:W:136:TYR:HA	1.21	1.05
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.05
2:I:619:LYS:C	3:J:1445:LYS:CB	2.30	1.05
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.05
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.05
5:S:326:LEU:CA	5:S:326:LEU:O	2.03	1.05
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.05
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.05
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.05
4:X:402:ALA:CB	4:X:403:ILE:H	1.56	1.05
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.04
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.04
5:G:326:LEU:CA	5:G:326:LEU:O	2.03	1.04
4:R:451:GLU:C	4:R:451:GLU:HA	1.77	1.04
2:C:677:GLN:CA	1:K:796:LYS:O	2.05	1.04
2:C:677:GLN:CA	1:K:796:LYS:O	2.05	1.04
2:C:677:GLN:CA	1:K:796:LYS:O	2.05	1.04
2:C:677:GLN:CA	1:K:796:LYS:O	2.05	1.04
2:C:677:GLN:CA	1:K:796:LYS:O	2.05	1.04
2:C:677:GLN:CA	1:K:796:LYS:O	2.05	1.04
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.04
2:U:740:GLU:HA	3:V:1454:ALA:HB2	1.36	1.04
1:Q:1233:VAL:N	1:W:579:GLU:CB	2.21	1.04
2:U:643:ASN:CB	3:V:1452:LEU:C	2.10	1.04
1:Q:1233:VAL:N	1:W:579:GLU:CB	2.21	1.04
2:U:643:ASN:CB	3:V:1452:LEU:C	2.10	1.04
1:Q:1233:VAL:N	1:W:579:GLU:CB	2.21	1.04
2:U:643:ASN:CB	3:V:1452:LEU:C	2.10	1.04
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.04
1:Q:1233:VAL:N	1:W:579:GLU:CB	2.21	1.04
2:U:643:ASN:CB	3:V:1452:LEU:C	2.10	1.04
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.04
2:U:643:ASN:CB	3:V:1452:LEU:C	2.10	1.04
2:U:643:ASN:CB	3:V:1452:LEU:C	2.10	1.04
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.04
2:C:304:PRO:CB	1:Q:849:ASN:O	2.06	1.04
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.04
2:C:304:PRO:CB	1:Q:849:ASN:O	2.06	1.04
2:C:304:PRO:CB	1:Q:849:ASN:O	2.06	1.04
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.04
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.04
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.04
2:C:304:PRO:CB	1:Q:849:ASN:O	2.06	1.04
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.04
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.04
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.04
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.04
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.04
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.04
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.04
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.03
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.03
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.03
4:X:451:GLU:C	4:X:451:GLU:HA	1.78	1.03
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.03
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.03
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.03
4:X:451:GLU:C	4:X:451:GLU:HA	1.78	1.03
2:U:622:PHE:CB	3:V:1449:TRP:CB	2.36	1.03
2:C:726:SER:CA	1:K:86:ARG:H	1.71	1.03
2:U:640:GLU:O	3:V:1452:LEU:N	1.91	1.03
2:C:726:SER:CA	1:K:86:ARG:H	1.71	1.03
2:U:640:GLU:O	3:V:1452:LEU:N	1.91	1.03
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.03
2:C:726:SER:CA	1:K:86:ARG:H	1.71	1.03
4:R:451:GLU:C	4:R:451:GLU:HA	1.78	1.03
2:U:640:GLU:O	3:V:1452:LEU:N	1.91	1.03
2:C:726:SER:CA	1:K:86:ARG:H	1.71	1.03
4:R:451:GLU:C	4:R:451:GLU:HA	1.78	1.03
2:U:640:GLU:O	3:V:1452:LEU:N	1.91	1.03
2:C:726:SER:CA	1:K:86:ARG:H	1.71	1.03
4:R:451:GLU:C	4:R:451:GLU:HA	1.78	1.03
2:U:640:GLU:O	3:V:1452:LEU:N	1.91	1.03
2:C:726:SER:CA	1:K:86:ARG:H	1.71	1.03
4:R:451:GLU:C	4:R:451:GLU:HA	1.78	1.03
2:U:640:GLU:O	3:V:1452:LEU:N	1.91	1.03
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
2:C:726:SER:HA	1:K:86:ARG:N	1.73	1.03
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	1.03
2:C:726:SER:HA	1:K:86:ARG:N	1.73	1.03
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.03
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	1.03
2:C:726:SER:HA	1:K:86:ARG:N	1.73	1.03
2:C:726:SER:HA	1:K:86:ARG:N	1.73	1.03
2:C:726:SER:HA	1:K:86:ARG:N	1.73	1.03
2:C:726:SER:HA	1:K:86:ARG:N	1.73	1.03
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.03
2:C:786:ARG:HA	1:K:92:GLU:CB	1.89	1.03
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.03
2:O:785:LEU:HA	1:W:132:GLY:O	1.42	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
2:C:786:ARG:HA	1:K:92:GLU:CB	1.89	1.03
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.03
2:O:785:LEU:HA	1:W:132:GLY:O	1.42	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
2:C:786:ARG:HA	1:K:92:GLU:CB	1.89	1.03
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.03
2:O:785:LEU:HA	1:W:132:GLY:O	1.42	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
2:C:786:ARG:HA	1:K:92:GLU:CB	1.89	1.03
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.03
2:O:785:LEU:HA	1:W:132:GLY:O	1.42	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
2:C:303:ALA:O	1:Q:847:ARG:C	2.02	1.03
2:C:786:ARG:HA	1:K:92:GLU:CB	1.89	1.03
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.03
2:O:785:LEU:HA	1:W:132:GLY:O	1.42	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
2:C:303:ALA:O	1:Q:847:ARG:C	2.02	1.03
2:C:786:ARG:HA	1:K:92:GLU:CB	1.89	1.03
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.03
2:O:785:LEU:HA	1:W:132:GLY:O	1.42	1.03
4:R:458:ASP:CB	4:R:459:LEU:N	2.22	1.03
1:E:1165:TYR:CB	1:K:727:PHE:C	2.32	1.03
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.03
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.03
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.03
5:S:366:GLU:CB	5:S:366:GLU:C	2.31	1.03
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.03
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.03
1:E:847:ARG:C	2:O:303:ALA:O	2.02	1.03
4:X:402:ALA:CB	4:X:403:ILE:N	1.92	1.03
1:E:847:ARG:C	2:O:303:ALA:O	2.02	1.03
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.02
5:M:366:GLU:CB	5:M:366:GLU:C	2.31	1.02
1:Q:1305:GLN:CB	3:V:733:ASP:O	1.96	1.02
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1511:GLN:CA	3:P:1468:ALA:HB3	1.84	1.02
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.02
3:D:1511:GLN:CA	3:P:1468:ALA:HB3	1.84	1.02
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.02
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.02
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.02
3:D:1511:GLN:CA	3:P:1468:ALA:HB3	1.84	1.02
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.02
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.02
1:Q:1310:ARG:CA	3:V:245:ASP:CB	2.36	1.02
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.02
3:D:1511:GLN:CA	3:P:1468:ALA:HB3	1.84	1.02
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
1:Q:1310:ARG:CA	3:V:245:ASP:CB	2.36	1.02
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.02
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.02
5:Y:366:GLU:CB	5:Y:366:GLU:C	2.31	1.02
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.02
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.02
1:E:1239:ASP:HA	1:K:572:ALA:HA	1.39	1.02
3:P:884:GLN:CA	6:T:409:PRO:C	2.33	1.02
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.02
1:E:1239:ASP:HA	1:K:572:ALA:HA	1.39	1.02
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.02
3:P:884:GLN:CA	6:T:409:PRO:C	2.33	1.02
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.02
1:E:1239:ASP:HA	1:K:572:ALA:HA	1.39	1.02
1:E:1239:ASP:HA	1:K:572:ALA:HA	1.39	1.02
1:E:1310:ARG:CA	3:J:245:ASP:CB	2.37	1.02
1:E:1310:ARG:CA	3:J:245:ASP:CB	2.37	1.02
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.02
4:F:455:ILE:O	4:F:456:ASP:C	2.02	1.02
1:Q:1264:LEU:CB	3:V:686:GLY:C	2.31	1.02
1:Q:1320:PRO:CB	3:V:730:PRO:CB	2.37	1.02
2:C:786:ARG:CB	1:K:92:GLU:N	2.21	1.02
2:I:640:GLU:O	3:J:1452:LEU:N	1.91	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
2:O:726:SER:CA	1:W:86:ARG:N	2.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:786:ARG:CB	1:K:92:GLU:N	2.21	1.02
2:I:640:GLU:O	3:J:1452:LEU:N	1.91	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
2:O:726:SER:CA	1:W:86:ARG:N	2.22	1.02
2:C:786:ARG:CB	1:K:92:GLU:N	2.21	1.02
2:I:640:GLU:O	3:J:1452:LEU:N	1.91	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
2:O:726:SER:CA	1:W:86:ARG:N	2.22	1.02
2:C:786:ARG:CB	1:K:92:GLU:N	2.21	1.02
2:I:640:GLU:O	3:J:1452:LEU:N	1.91	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
2:O:726:SER:CA	1:W:86:ARG:N	2.22	1.02
2:C:786:ARG:CB	1:K:92:GLU:N	2.21	1.02
2:I:640:GLU:O	3:J:1452:LEU:N	1.91	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
2:O:726:SER:CA	1:W:86:ARG:N	2.22	1.02
2:C:786:ARG:CB	1:K:92:GLU:N	2.21	1.02
2:I:640:GLU:O	3:J:1452:LEU:N	1.91	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
2:O:726:SER:CA	1:W:86:ARG:N	2.22	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
3:P:880:GLU:C	6:T:412:GLU:CA	2.08	1.02
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.02
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
3:P:880:GLU:C	6:T:412:GLU:CA	2.08	1.02
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.02
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
5:M:380:ILE:N	5:M:380:ILE:CA	2.23	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
3:P:1663:GLN:HA	3:P:1667:ALA:HB2	1.39	1.02
5:Y:380:ILE:N	5:Y:380:ILE:CA	2.23	1.02
1:E:1302:VAL:C	3:J:876:VAL:CB	2.33	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:458:ASP:CB	4:F:459:LEU:N	2.22	1.02
6:N:408:SER:HA	6:N:410:LEU:H	1.18	1.02
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.02
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.02
4:L:455:ILE:O	4:L:456:ASP:C	2.02	1.02
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.02
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.02
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.02
4:L:455:ILE:O	4:L:456:ASP:C	2.02	1.02
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.02
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.02
4:L:455:ILE:O	4:L:456:ASP:C	2.02	1.02
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.02
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.02
4:L:455:ILE:O	4:L:456:ASP:C	2.02	1.02
4:F:451:GLU:C	4:F:451:GLU:HA	1.77	1.02
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.02
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.01
4:F:458:ASP:O	4:F:460:LEU:N	1.92	1.01
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.01
2:I:739:ASP:N	3:J:1454:ALA:HB1	1.75	1.01
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.01
2:U:645:LEU:CB	3:V:1450:GLU:CB	2.36	1.01
4:X:455:ILE:O	4:X:456:ASP:C	2.02	1.01
5:G:366:GLU:CB	5:G:366:GLU:C	2.31	1.01
2:I:739:ASP:N	3:J:1454:ALA:HB1	1.75	1.01
2:U:645:LEU:CB	3:V:1450:GLU:CB	2.36	1.01
2:I:739:ASP:N	3:J:1454:ALA:HB1	1.75	1.01
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.01
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	1.01
2:U:645:LEU:CB	3:V:1450:GLU:CB	2.36	1.01
4:X:455:ILE:O	4:X:456:ASP:C	2.02	1.01
2:I:739:ASP:N	3:J:1454:ALA:HB1	1.75	1.01
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.01
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	1.01
2:U:645:LEU:CB	3:V:1450:GLU:CB	2.36	1.01
4:X:455:ILE:O	4:X:456:ASP:C	2.02	1.01
2:I:739:ASP:N	3:J:1454:ALA:HB1	1.75	1.01
4:L:458:ASP:CB	4:L:459:LEU:N	2.22	1.01
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	1.01
2:U:645:LEU:CB	3:V:1450:GLU:CB	2.36	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:455:ILE:O	4:X:456:ASP:C	2.02	1.01
2:I:739:ASP:N	3:J:1454:ALA:HB1	1.75	1.01
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	1.01
2:U:645:LEU:CB	3:V:1450:GLU:CB	2.36	1.01
2:I:645:LEU:CB	3:J:1450:GLU:CB	2.36	1.01
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.01
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.01
2:I:645:LEU:CB	3:J:1450:GLU:CB	2.36	1.01
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.01
2:I:645:LEU:CB	3:J:1450:GLU:CB	2.36	1.01
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.01
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.01
2:I:645:LEU:CB	3:J:1450:GLU:CB	2.36	1.01
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.01
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.01
2:I:645:LEU:CB	3:J:1450:GLU:CB	2.36	1.01
4:X:458:ASP:CB	4:X:459:LEU:N	2.22	1.01
4:X:458:ASP:O	4:X:460:LEU:N	1.92	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.01
2:I:645:LEU:CB	3:J:1450:GLU:CB	2.36	1.01
6:Z:408:SER:HA	6:Z:410:LEU:H	1.18	1.01
2:I:620:GLY:H	3:J:1446:LYS:HA	1.23	1.01
2:O:783:SER:CB	1:W:91:PRO:C	2.32	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.01
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.01
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.01
3:D:1475:ALA:HB3	3:P:1475:ALA:HB3	1.01	1.01
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.01
3:D:1475:ALA:HB3	3:P:1475:ALA:HB3	1.01	1.01
4:L:458:ASP:O	4:L:460:LEU:N	1.92	1.01
1:Q:1312:PRO:CB	3:V:723:LEU:N	2.24	1.01
2:C:781:ARG:H	1:K:136:TYR:HA	1.24	1.01
2:O:723:ASN:N	1:W:128:TYR:O	1.94	1.01
2:U:645:LEU:H	3:V:1450:GLU:HA	1.26	1.01
2:C:781:ARG:H	1:K:136:TYR:HA	1.24	1.01
2:O:723:ASN:N	1:W:128:TYR:O	1.94	1.01
2:U:645:LEU:H	3:V:1450:GLU:HA	1.26	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:781:ARG:H	1:K:136:TYR:HA	1.24	1.01
2:O:723:ASN:N	1:W:128:TYR:O	1.94	1.01
2:U:645:LEU:H	3:V:1450:GLU:HA	1.26	1.01
2:C:781:ARG:H	1:K:136:TYR:HA	1.24	1.01
2:O:723:ASN:N	1:W:128:TYR:O	1.94	1.01
2:U:645:LEU:H	3:V:1450:GLU:HA	1.26	1.01
2:C:781:ARG:H	1:K:136:TYR:HA	1.24	1.01
2:O:723:ASN:N	1:W:128:TYR:O	1.94	1.01
2:U:645:LEU:H	3:V:1450:GLU:HA	1.26	1.01
2:C:781:ARG:H	1:K:136:TYR:HA	1.24	1.01
2:O:723:ASN:N	1:W:128:TYR:O	1.94	1.01
2:U:645:LEU:H	3:V:1450:GLU:HA	1.26	1.01
5:G:380:ILE:N	5:G:380:ILE:CA	2.23	1.00
4:L:222:THR:C	4:L:222:THR:CB	2.34	1.00
4:R:222:THR:C	4:R:222:THR:CB	2.34	1.00
4:X:222:THR:C	4:X:222:THR:CB	2.34	1.00
3:D:1476:ALA:HB2	3:P:1476:ALA:HB2	1.30	1.00
3:D:1476:ALA:HB2	3:P:1476:ALA:HB2	1.30	1.00
3:D:1476:ALA:HB2	3:P:1476:ALA:HB2	1.30	1.00
3:D:1476:ALA:HB2	3:P:1476:ALA:HB2	1.30	1.00
1:E:1165:TYR:CB	1:K:727:PHE:HA	1.89	1.00
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
4:F:402:ALA:CB	4:F:403:ILE:H	1.56	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
3:J:1663:GLN:HA	3:J:1667:ALA:HB2	1.39	1.00
4:R:458:ASP:O	4:R:460:LEU:N	1.92	1.00
2:U:739:ASP:N	3:V:1454:ALA:HB1	1.75	1.00
4:F:222:THR:C	4:F:222:THR:CB	2.34	1.00
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:645:LEU:H	3:J:1450:GLU:HA	1.26	1.00
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.00
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.00
2:I:645:LEU:H	3:J:1450:GLU:HA	1.26	1.00
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.00
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.00
2:I:645:LEU:H	3:J:1450:GLU:HA	1.26	1.00
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.00
2:I:645:LEU:H	3:J:1450:GLU:HA	1.26	1.00
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.00
2:I:645:LEU:H	3:J:1450:GLU:HA	1.26	1.00
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.00
3:D:1663:GLN:HA	3:D:1667:ALA:HB2	1.39	1.00
2:I:645:LEU:H	3:J:1450:GLU:HA	1.26	1.00
3:V:1663:GLN:HA	3:V:1667:ALA:HB2	1.39	1.00
2:U:642:MET:CA	3:V:1450:GLU:CB	2.26	1.00
2:U:739:ASP:N	3:V:1454:ALA:CB	2.24	1.00
2:U:642:MET:CA	3:V:1450:GLU:CB	2.26	1.00
2:U:739:ASP:N	3:V:1454:ALA:CB	2.24	1.00
2:U:642:MET:CA	3:V:1450:GLU:CB	2.26	1.00
2:U:739:ASP:N	3:V:1454:ALA:CB	2.24	1.00
2:U:642:MET:CA	3:V:1450:GLU:CB	2.26	1.00
2:U:739:ASP:N	3:V:1454:ALA:CB	2.24	1.00
2:U:642:MET:CA	3:V:1450:GLU:CB	2.26	1.00
2:U:739:ASP:N	3:V:1454:ALA:CB	2.24	1.00
2:U:642:MET:CA	3:V:1450:GLU:CB	2.26	1.00
2:U:739:ASP:N	3:V:1454:ALA:CB	2.24	1.00
2:C:524:ARG:CB	3:D:1609:ILE:CA	2.39	1.00
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	1.00
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	1.00
1:Q:1308:LYS:CB	3:V:173:PHE:O	2.10	1.00
1:Q:1308:LYS:CB	3:V:173:PHE:O	2.10	1.00
1:Q:1308:LYS:CB	3:V:173:PHE:O	2.10	1.00
1:Q:1308:LYS:CB	3:V:173:PHE:O	2.10	1.00
1:Q:1357:VAL:CB	3:V:876:VAL:C	2.34	1.00
5:S:380:ILE:N	5:S:380:ILE:CA	2.23	0.99
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.99
2:I:739:ASP:N	3:J:1454:ALA:CB	2.24	0.99
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.99
2:I:739:ASP:N	3:J:1454:ALA:CB	2.24	0.99
2:I:739:ASP:N	3:J:1454:ALA:CB	2.24	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:739:ASP:N	3:J:1454:ALA:CB	2.24	0.99
2:I:739:ASP:N	3:J:1454:ALA:CB	2.24	0.99
2:I:739:ASP:N	3:J:1454:ALA:CB	2.24	0.99
1:Q:1320:PRO:N	3:V:722:ASN:HA	1.77	0.99
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.99
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.99
2:C:174:GLY:HA2	3:D:1682:LYS:CB	1.91	0.99
2:C:174:GLY:HA2	3:D:1682:LYS:CB	1.91	0.99
1:E:847:ARG:O	2:O:303:ALA:HB1	1.61	0.99
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.99
1:Q:1307:PHE:N	3:V:733:ASP:CB	2.25	0.99
4:R:402:ALA:CB	4:R:403:ILE:N	1.92	0.99
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.99
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	0.99
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.99
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.99
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.99
1:Q:1266:PHE:CB	3:V:676:VAL:CB	2.40	0.99
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.99
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.99
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.99
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.99
2:O:783:SER:H	1:W:92:GLU:CA	1.75	0.99
4:F:455:ILE:O	4:F:456:ASP:C	2.02	0.99
4:F:455:ILE:O	4:F:456:ASP:C	2.02	0.99
2:C:538:LYS:CB	3:D:1671:GLN:CA	2.27	0.99
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.99
3:P:883:LEU:CB	6:T:411:GLU:CA	2.40	0.99
3:P:883:LEU:CB	6:T:411:GLU:CA	2.40	0.99
2:C:726:SER:CA	1:K:86:ARG:N	2.26	0.99
2:I:642:MET:CA	3:J:1450:GLU:CB	2.26	0.99
2:C:726:SER:CA	1:K:86:ARG:N	2.26	0.99
2:I:642:MET:CA	3:J:1450:GLU:CB	2.26	0.99
2:C:726:SER:CA	1:K:86:ARG:N	2.26	0.99
2:I:642:MET:CA	3:J:1450:GLU:CB	2.26	0.99
2:C:726:SER:CA	1:K:86:ARG:N	2.26	0.99
2:I:642:MET:CA	3:J:1450:GLU:CB	2.26	0.99
2:C:726:SER:CA	1:K:86:ARG:N	2.26	0.99
2:I:642:MET:CA	3:J:1450:GLU:CB	2.26	0.99
2:C:726:SER:CA	1:K:86:ARG:N	2.26	0.99
2:I:642:MET:CA	3:J:1450:GLU:CB	2.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.99
1:E:1233:VAL:CB	1:K:580:ALA:H	1.75	0.99
1:E:1233:VAL:CB	1:K:580:ALA:H	1.75	0.99
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.99
1:E:1233:VAL:CB	1:K:580:ALA:H	1.75	0.99
1:E:1233:VAL:CB	1:K:580:ALA:H	1.75	0.99
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.99
4:L:311:GLN:C	4:L:311:GLN:CB	2.36	0.98
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.98
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.98
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.98
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.98
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.98
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.98
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.98
4:L:458:ASP:C	4:L:459:LEU:CA	2.35	0.98
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	0.98
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	0.98
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	0.98
4:F:458:ASP:C	4:F:459:LEU:CA	2.35	0.98
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.98
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.98
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.98
2:C:304:PRO:N	1:Q:851:ALA:N	2.11	0.98
1:E:851:ALA:N	2:O:304:PRO:N	2.11	0.98
4:X:458:ASP:C	4:X:459:LEU:CA	2.35	0.98
2:C:304:PRO:N	1:Q:851:ALA:N	2.11	0.98
1:E:851:ALA:N	2:O:304:PRO:N	2.11	0.98
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.98
4:L:311:GLN:C	4:L:311:GLN:CB	2.35	0.98
4:R:311:GLN:C	4:R:311:GLN:CB	2.35	0.98
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.98
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.98
2:O:173:PRO:C	3:P:1682:LYS:CA	2.35	0.98
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.98
2:O:173:PRO:C	3:P:1682:LYS:CA	2.35	0.98
4:F:311:GLN:C	4:F:311:GLN:CB	2.35	0.98
4:L:311:GLN:C	4:L:311:GLN:CB	2.35	0.98
1:Q:1302:VAL:CB	3:V:687:ILE:HA	1.93	0.98
1:Q:1306:LEU:HA	3:V:734:PRO:N	1.77	0.98
4:X:455:ILE:O	4:X:456:ASP:C	2.02	0.98
1:Q:1233:VAL:CB	1:W:580:ALA:N	2.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1233:VAL:CB	1:W:580:ALA:N	2.27	0.98
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.98
1:Q:1233:VAL:CB	1:W:580:ALA:N	2.27	0.98
1:Q:1233:VAL:CB	1:W:580:ALA:N	2.27	0.98
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.98
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.98
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.98
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.98
4:R:458:ASP:C	4:R:459:LEU:CA	2.35	0.98
2:C:173:PRO:C	3:D:1682:LYS:CA	2.36	0.98
2:C:173:PRO:C	3:D:1682:LYS:CA	2.36	0.98
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.98
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.98
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.98
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.98
2:O:486:ARG:CB	3:P:1661:ARG:CB	2.41	0.98
2:O:486:ARG:CB	3:P:1661:ARG:CB	2.41	0.98
4:F:455:ILE:O	4:F:456:ASP:C	2.02	0.98
2:O:486:ARG:CB	3:P:1661:ARG:CB	2.41	0.98
4:F:455:ILE:O	4:F:456:ASP:C	2.02	0.98
4:F:455:ILE:O	4:F:456:ASP:C	2.02	0.98
4:F:455:ILE:O	4:F:456:ASP:C	2.02	0.98
2:O:486:ARG:CB	3:P:1661:ARG:CB	2.41	0.98
2:I:645:LEU:H	3:J:1450:GLU:CB	1.76	0.97
4:L:311:GLN:C	4:L:311:GLN:CB	2.35	0.97
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.97
2:I:645:LEU:H	3:J:1450:GLU:CB	1.76	0.97
2:I:645:LEU:H	3:J:1450:GLU:CB	1.76	0.97
4:L:311:GLN:C	4:L:311:GLN:CB	2.35	0.97
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.97
2:I:645:LEU:H	3:J:1450:GLU:CB	1.76	0.97
4:L:311:GLN:C	4:L:311:GLN:CB	2.35	0.97
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.97
2:I:645:LEU:H	3:J:1450:GLU:CB	1.76	0.97
4:L:311:GLN:C	4:L:311:GLN:CB	2.35	0.97
4:X:311:GLN:C	4:X:311:GLN:CB	2.35	0.97
2:I:645:LEU:H	3:J:1450:GLU:CB	1.76	0.97
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.97
1:E:1239:ASP:CB	1:K:572:ALA:O	2.12	0.97
1:E:1239:ASP:CB	1:K:572:ALA:O	2.12	0.97
1:E:1239:ASP:CB	1:K:572:ALA:O	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1239:ASP:CB	1:K:572:ALA:O	2.12	0.97
1:E:1301:GLU:CA	3:J:877:CYS:CB	2.42	0.97
4:R:455:ILE:O	4:R:456:ASP:C	2.02	0.97
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.97
2:U:645:LEU:H	3:V:1450:GLU:CB	1.76	0.97
2:U:645:LEU:H	3:V:1450:GLU:CB	1.76	0.97
2:U:645:LEU:H	3:V:1450:GLU:CB	1.76	0.97
2:O:173:PRO:N	3:P:1681:SER:O	1.98	0.97
2:U:645:LEU:H	3:V:1450:GLU:CB	1.76	0.97
2:O:173:PRO:N	3:P:1681:SER:O	1.98	0.97
2:U:645:LEU:H	3:V:1450:GLU:CB	1.76	0.97
2:U:645:LEU:H	3:V:1450:GLU:CB	1.76	0.97
1:Q:1352:LEU:CB	3:V:871:GLN:N	2.23	0.97
2:C:486:ARG:CB	3:D:1661:ARG:CB	2.41	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:C:486:ARG:CB	3:D:1661:ARG:CB	2.41	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:C:486:ARG:CB	3:D:1661:ARG:CB	2.41	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:C:486:ARG:CB	3:D:1661:ARG:CB	2.41	0.97
2:O:726:SER:CA	1:W:86:ARG:H	1.69	0.97
2:O:589:ASN:CB	1:W:849:ASN:CB	2.43	0.97
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	0.97
4:R:402:ALA:CB	4:R:403:ILE:H	1.56	0.97
1:E:848:ASP:N	2:O:303:ALA:O	1.65	0.97
1:E:848:ASP:N	2:O:303:ALA:O	1.65	0.97
1:Q:1263:PRO:CB	3:V:689:VAL:O	1.91	0.97
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.97
2:U:740:GLU:CA	3:V:1454:ALA:HB2	1.95	0.97
2:C:299:ILE:CA	1:Q:845:TYR:CB	2.42	0.97
2:C:778:ILE:N	1:K:140:LEU:N	2.09	0.97
2:C:299:ILE:CA	1:Q:845:TYR:CB	2.42	0.97
2:C:778:ILE:N	1:K:140:LEU:N	2.09	0.97
2:C:299:ILE:CA	1:Q:845:TYR:CB	2.42	0.97
2:C:778:ILE:N	1:K:140:LEU:N	2.09	0.97
2:C:299:ILE:CA	1:Q:845:TYR:CB	2.42	0.97
2:C:778:ILE:N	1:K:140:LEU:N	2.09	0.97
2:O:174:GLY:HA2	3:P:1682:LYS:CB	1.94	0.97
2:C:778:ILE:N	1:K:140:LEU:N	2.09	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:174:GLY:HA2	3:P:1682:LYS:CB	1.94	0.97
2:C:778:ILE:N	1:K:140:LEU:N	2.09	0.97
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.97
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.97
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.97
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.97
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.97
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.97
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.97
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.97
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.97
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.97
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.97
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.96
2:C:173:PRO:N	3:D:1681:SER:O	1.98	0.96
2:C:173:PRO:N	3:D:1681:SER:O	1.98	0.96
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.37	0.96
1:E:853:ASP:N	2:O:304:PRO:CB	2.26	0.96
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.96
1:E:853:ASP:N	2:O:304:PRO:CB	2.26	0.96
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.96
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.96
1:E:853:ASP:N	2:O:304:PRO:CB	2.26	0.96
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.96
1:E:853:ASP:N	2:O:304:PRO:CB	2.26	0.96
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.96
4:L:453:TYR:O	4:L:455:ILE:CB	2.13	0.96
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.96
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.96
2:C:524:ARG:C	3:D:1610:PRO:CA	2.31	0.96
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.96
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.96
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.96
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.96
4:L:455:ILE:O	4:L:456:ASP:C	2.02	0.96
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.96
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.96
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.38	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.38	0.96
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.38	0.96
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.38	0.96
6:N:409:PRO:C	6:N:409:PRO:CB	2.38	0.96
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.96
2:I:739:ASP:H	3:J:1454:ALA:HB1	1.25	0.96
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.96
2:I:739:ASP:H	3:J:1454:ALA:HB1	1.25	0.96
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.96
2:I:739:ASP:H	3:J:1454:ALA:HB1	1.25	0.96
2:I:739:ASP:H	3:J:1454:ALA:HB1	1.25	0.96
2:I:739:ASP:H	3:J:1454:ALA:HB1	1.25	0.96
2:I:739:ASP:H	3:J:1454:ALA:HB1	1.25	0.96
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.96
2:I:15:GLN:C	2:I:15:GLN:CB	2.38	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
2:I:15:GLN:C	2:I:15:GLN:CB	2.38	0.96
2:U:644:LYS:CB	3:V:1452:LEU:N	2.28	0.96
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.96
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.96
2:O:15:GLN:C	2:O:15:GLN:CB	2.39	0.96
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.96
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.96
2:O:15:GLN:C	2:O:15:GLN:CB	2.39	0.96
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.96
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.96
2:O:15:GLN:C	2:O:15:GLN:CB	2.39	0.96
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.96
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.96
2:O:15:GLN:C	2:O:15:GLN:CB	2.39	0.96
2:C:306:PRO:HA	1:Q:848:ASP:O	1.66	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:722:LEU:CA	1:W:130:ASP:O	2.13	0.96
2:C:306:PRO:HA	1:Q:848:ASP:O	1.66	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
2:O:722:LEU:CA	1:W:130:ASP:O	2.13	0.96
2:C:306:PRO:HA	1:Q:848:ASP:O	1.66	0.96
2:O:722:LEU:CA	1:W:130:ASP:O	2.13	0.96
2:C:306:PRO:HA	1:Q:848:ASP:O	1.66	0.96
2:O:722:LEU:CA	1:W:130:ASP:O	2.13	0.96
2:O:722:LEU:CA	1:W:130:ASP:O	2.13	0.96
2:O:722:LEU:CA	1:W:130:ASP:O	2.13	0.96
4:F:453:TYR:O	4:F:455:ILE:CB	2.13	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.38	0.96
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.96
6:H:409:PRO:C	6:H:409:PRO:CB	2.38	0.96
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.96
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.96
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.96
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.96
6:Z:409:PRO:C	6:Z:409:PRO:CB	2.38	0.96
2:C:15:GLN:C	2:C:15:GLN:CB	2.39	0.96
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.96
2:C:15:GLN:C	2:C:15:GLN:CB	2.39	0.96
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.96
2:C:15:GLN:C	2:C:15:GLN:CB	2.39	0.96
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.96
2:C:15:GLN:C	2:C:15:GLN:CB	2.39	0.96
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.96
2:I:15:GLN:C	2:I:15:GLN:CB	2.39	0.95
2:O:15:GLN:C	2:O:15:GLN:CB	2.38	0.95
3:P:888:PRO:CB	6:T:406:LEU:CA	2.44	0.95
2:O:15:GLN:C	2:O:15:GLN:CB	2.38	0.95
3:P:888:PRO:CB	6:T:406:LEU:CA	2.44	0.95
2:I:15:GLN:C	2:I:15:GLN:CB	2.39	0.95
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.95
2:I:15:GLN:C	2:I:15:GLN:CB	2.39	0.95
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.95
2:I:15:GLN:C	2:I:15:GLN:CB	2.39	0.95
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.95
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.95
2:C:303:ALA:CA	1:Q:849:ASN:CB	2.34	0.95
2:C:15:GLN:C	2:C:15:GLN:CB	2.38	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.95
2:C:15:GLN:C	2:C:15:GLN:CB	2.38	0.95
4:L:455:ILE:O	4:L:456:ASP:C	2.02	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.95
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.95
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.95
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.95
4:L:455:ILE:O	4:L:456:ASP:C	2.02	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
6:T:409:PRO:C	6:T:409:PRO:CB	2.38	0.95
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.95
1:Q:1319:LYS:CB	3:V:722:ASN:CB	2.43	0.95
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.95
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.95
4:F:450:GLU:O	4:F:451:GLU:C	2.09	0.95
4:R:452:ARG:CA	4:R:453:TYR:CA	2.41	0.95
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.95
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.95
2:C:15:GLN:C	2:C:15:GLN:CB	2.39	0.95
1:Q:1264:LEU:CB	3:V:688:GLU:N	2.29	0.95
4:X:453:TYR:O	4:X:455:ILE:CB	2.13	0.95
2:C:723:ASN:N	1:K:128:TYR:O	1.98	0.95
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.95
2:C:723:ASN:N	1:K:128:TYR:O	1.98	0.95
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.95
4:X:455:ILE:O	4:X:456:ASP:C	2.02	0.95
2:C:723:ASN:N	1:K:128:TYR:O	1.98	0.95
2:C:723:ASN:N	1:K:128:TYR:O	1.98	0.95
2:C:723:ASN:N	1:K:128:TYR:O	1.98	0.95
2:C:723:ASN:N	1:K:128:TYR:O	1.98	0.95
4:X:455:ILE:O	4:X:456:ASP:C	2.02	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
3:D:1475:ALA:CB	3:P:1475:ALA:HB3	1.96	0.95
3:D:1475:ALA:CB	3:P:1475:ALA:HB3	1.96	0.95
2:I:15:GLN:C	2:I:15:GLN:CB	2.39	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
4:R:450:GLU:O	4:R:451:GLU:C	2.09	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
4:R:453:TYR:O	4:R:455:ILE:CB	2.13	0.95
1:E:845:TYR:O	2:O:299:ILE:O	1.85	0.95
1:E:845:TYR:O	2:O:299:ILE:O	1.85	0.95
2:U:739:ASP:H	3:V:1454:ALA:HB1	1.25	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
2:U:739:ASP:H	3:V:1454:ALA:HB1	1.25	0.95
2:U:739:ASP:H	3:V:1454:ALA:HB1	1.25	0.95
2:U:739:ASP:H	3:V:1454:ALA:HB1	1.25	0.95
2:C:299:ILE:O	1:Q:845:TYR:O	1.85	0.95
2:U:739:ASP:H	3:V:1454:ALA:HB1	1.25	0.95
2:C:299:ILE:O	1:Q:845:TYR:O	1.85	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
2:U:739:ASP:H	3:V:1454:ALA:HB1	1.25	0.95
2:O:15:GLN:C	2:O:15:GLN:CB	2.39	0.95
2:U:15:GLN:C	2:U:15:GLN:CB	2.38	0.95
4:X:452:ARG:CA	4:X:453:TYR:CA	2.41	0.95
4:L:450:GLU:O	4:L:451:GLU:C	2.09	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
2:U:639:LEU:O	3:V:1452:LEU:HA	1.65	0.95
4:X:450:GLU:O	4:X:451:GLU:C	2.09	0.94
3:D:1475:ALA:HB3	3:P:1475:ALA:CB	1.95	0.94
3:D:1475:ALA:HB3	3:P:1475:ALA:CB	1.95	0.94
2:C:523:LEU:N	3:D:1662:CYS:HA	1.82	0.94
2:C:523:LEU:N	3:D:1662:CYS:HA	1.82	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
2:I:639:LEU:O	3:J:1452:LEU:HA	1.65	0.94
4:L:452:ARG:CA	4:L:453:TYR:CA	2.41	0.94
2:C:722:LEU:CA	1:K:130:ASP:O	2.14	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:709:ARG:O	1:W:195:SER:O	1.86	0.94
2:C:722:LEU:CA	1:K:130:ASP:O	2.14	0.94
2:O:709:ARG:O	1:W:195:SER:O	1.86	0.94
2:C:722:LEU:CA	1:K:130:ASP:O	2.14	0.94
2:O:709:ARG:O	1:W:195:SER:O	1.86	0.94
2:C:722:LEU:CA	1:K:130:ASP:O	2.14	0.94
2:O:709:ARG:O	1:W:195:SER:O	1.86	0.94
2:C:722:LEU:CA	1:K:130:ASP:O	2.14	0.94
2:O:709:ARG:O	1:W:195:SER:O	1.86	0.94
2:C:722:LEU:CA	1:K:130:ASP:O	2.14	0.94
2:O:709:ARG:O	1:W:195:SER:O	1.86	0.94
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.94
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.94
2:C:523:LEU:H	3:D:1613:VAL:CB	1.81	0.94
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.94
2:C:303:ALA:CB	1:Q:849:ASN:H	1.81	0.94
1:E:1233:VAL:N	1:K:579:GLU:CB	2.31	0.93
1:E:1233:VAL:N	1:K:579:GLU:CB	2.31	0.93
1:E:1233:VAL:N	1:K:579:GLU:CB	2.31	0.93
1:E:1233:VAL:N	1:K:579:GLU:CB	2.31	0.93
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.93
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.93
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.93
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.93
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.93
2:O:589:ASN:C	1:W:850:ALA:H	1.76	0.93
1:Q:1365:GLN:HA	3:V:880:GLU:N	1.83	0.93
2:U:617:GLU:C	3:V:1446:LYS:CB	2.40	0.93
1:E:1311:ASP:CB	3:J:248:LEU:H	1.82	0.93
1:Q:1311:ASP:CB	3:V:248:LEU:H	1.82	0.93
1:E:1311:ASP:CB	3:J:248:LEU:H	1.82	0.93
1:Q:1311:ASP:CB	3:V:248:LEU:H	1.82	0.93
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.93
4:F:452:ARG:CA	4:F:453:TYR:CA	2.41	0.93
2:O:722:LEU:C	1:W:128:TYR:O	2.12	0.93
2:O:722:LEU:C	1:W:128:TYR:O	2.12	0.93
2:O:722:LEU:C	1:W:128:TYR:O	2.12	0.93
2:O:722:LEU:C	1:W:128:TYR:O	2.12	0.93
2:O:722:LEU:C	1:W:128:TYR:O	2.12	0.93
2:O:722:LEU:C	1:W:128:TYR:O	2.12	0.93
1:E:848:ASP:HA	2:O:303:ALA:CB	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1311:ASP:HA	3:J:798:TYR:C	1.94	0.93
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.93
2:U:739:ASP:CB	3:V:1454:ALA:HB1	1.98	0.93
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.93
2:U:739:ASP:CB	3:V:1454:ALA:HB1	1.98	0.93
2:U:739:ASP:CB	3:V:1454:ALA:HB1	1.98	0.93
2:U:739:ASP:CB	3:V:1454:ALA:HB1	1.98	0.93
2:U:739:ASP:CB	3:V:1454:ALA:HB1	1.98	0.93
2:U:739:ASP:CB	3:V:1454:ALA:HB1	1.98	0.93
2:I:739:ASP:CB	3:J:1454:ALA:HB1	1.98	0.92
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.92
2:I:739:ASP:CB	3:J:1454:ALA:HB1	1.98	0.92
2:I:739:ASP:CB	3:J:1454:ALA:HB1	1.98	0.92
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.92
2:I:739:ASP:CB	3:J:1454:ALA:HB1	1.98	0.92
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.92
2:I:739:ASP:CB	3:J:1454:ALA:HB1	1.98	0.92
4:X:399:SER:C	4:X:400:GLY:HA3	1.93	0.92
2:I:739:ASP:CB	3:J:1454:ALA:HB1	1.98	0.92
2:C:675:ARG:N	1:K:849:ASN:CB	2.26	0.92
2:O:722:LEU:N	1:W:129:GLU:O	1.88	0.92
2:O:722:LEU:N	1:W:129:GLU:O	1.88	0.92
2:O:722:LEU:N	1:W:129:GLU:O	1.88	0.92
2:O:722:LEU:N	1:W:129:GLU:O	1.88	0.92
2:O:722:LEU:N	1:W:129:GLU:O	1.88	0.92
2:O:722:LEU:N	1:W:129:GLU:O	1.88	0.92
2:C:304:PRO:O	1:Q:852:VAL:HA	1.68	0.92
2:C:304:PRO:O	1:Q:852:VAL:HA	1.68	0.92
2:C:304:PRO:O	1:Q:852:VAL:HA	1.68	0.92
2:C:304:PRO:O	1:Q:852:VAL:HA	1.68	0.92
2:C:303:ALA:HB3	1:Q:849:ASN:N	1.81	0.92
1:E:848:ASP:O	2:O:306:PRO:HA	1.68	0.92
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.92
1:E:848:ASP:O	2:O:306:PRO:HA	1.68	0.92
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.92
1:E:848:ASP:O	2:O:306:PRO:HA	1.68	0.92
1:E:848:ASP:O	2:O:306:PRO:HA	1.68	0.92
2:C:523:LEU:CB	3:D:1613:VAL:CB	2.47	0.92
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.92
2:O:173:PRO:C	3:P:1686:PRO:HA	1.95	0.92
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:173:PRO:C	3:P:1686:PRO:HA	1.95	0.92
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.92
2:O:173:PRO:C	3:P:1686:PRO:HA	1.95	0.92
2:O:173:PRO:C	3:P:1686:PRO:HA	1.95	0.92
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.92
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.92
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.92
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.92
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.92
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.92
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.92
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.92
4:L:399:SER:C	4:L:400:GLY:HA3	1.93	0.92
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.92
2:C:303:ALA:HB1	1:Q:848:ASP:C	1.95	0.91
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.91
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.91
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.91
5:S:326:LEU:C	5:S:327:ARG:CA	2.43	0.91
2:C:173:PRO:C	3:D:1686:PRO:HA	1.95	0.91
2:O:778:ILE:HA	1:W:138:ASP:O	1.69	0.91
2:C:173:PRO:C	3:D:1686:PRO:HA	1.95	0.91
2:O:778:ILE:HA	1:W:138:ASP:O	1.69	0.91
2:C:173:PRO:C	3:D:1686:PRO:HA	1.95	0.91
2:O:778:ILE:HA	1:W:138:ASP:O	1.69	0.91
2:O:778:ILE:HA	1:W:138:ASP:O	1.69	0.91
2:O:778:ILE:HA	1:W:138:ASP:O	1.69	0.91
2:C:173:PRO:C	3:D:1686:PRO:HA	1.95	0.91
2:O:778:ILE:HA	1:W:138:ASP:O	1.69	0.91
2:C:722:LEU:N	1:K:129:GLU:O	1.89	0.91
2:C:722:LEU:N	1:K:129:GLU:O	1.89	0.91
2:C:722:LEU:N	1:K:129:GLU:O	1.89	0.91
2:C:722:LEU:N	1:K:129:GLU:O	1.89	0.91
2:C:722:LEU:N	1:K:129:GLU:O	1.89	0.91
2:C:722:LEU:N	1:K:129:GLU:O	1.89	0.91
1:Q:1239:ASP:CA	1:W:572:ALA:HA	1.99	0.91
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.91
1:Q:1239:ASP:CA	1:W:572:ALA:HA	1.99	0.91
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.91
1:Q:1239:ASP:CA	1:W:572:ALA:HA	1.99	0.91
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1239:ASP:CA	1:W:572:ALA:HA	1.99	0.91
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.91
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.91
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.91
2:C:483:GLU:CB	3:D:1658:ALA:CB	2.49	0.91
2:I:619:LYS:O	3:J:1445:LYS:CB	2.19	0.91
2:C:709:ARG:O	1:K:195:SER:O	1.87	0.91
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.91
2:C:709:ARG:O	1:K:195:SER:O	1.87	0.91
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.91
2:C:709:ARG:O	1:K:195:SER:O	1.87	0.91
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.91
2:C:709:ARG:O	1:K:195:SER:O	1.87	0.91
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.91
2:C:709:ARG:O	1:K:195:SER:O	1.87	0.91
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.91
2:C:709:ARG:O	1:K:195:SER:O	1.87	0.91
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.91
3:D:1468:ALA:CB	3:P:1511:GLN:CA	2.23	0.91
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.91
3:D:1468:ALA:CB	3:P:1511:GLN:CA	2.23	0.91
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.91
3:D:1468:ALA:CB	3:P:1511:GLN:CA	2.23	0.91
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.91
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.91
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.91
3:D:1468:ALA:CB	3:P:1511:GLN:CA	2.23	0.91
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.91
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.91
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.91
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.91
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.91
1:E:849:ASN:C	2:O:304:PRO:N	2.29	0.91
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.91
1:E:849:ASN:C	2:O:304:PRO:N	2.29	0.91
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.91
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.91
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.91
5:M:326:LEU:C	5:M:327:ARG:CA	2.43	0.91
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.90
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:304:PRO:N	1:Q:849:ASN:C	2.29	0.90
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.90
2:C:304:PRO:N	1:Q:849:ASN:C	2.29	0.90
4:F:399:SER:C	4:F:400:GLY:HA3	1.93	0.90
2:C:301:LEU:O	1:Q:849:ASN:HA	1.72	0.90
2:C:301:LEU:O	1:Q:849:ASN:HA	1.72	0.90
5:G:326:LEU:C	5:G:327:ARG:CA	2.43	0.90
3:V:1663:GLN:CA	3:V:1667:ALA:HB2	2.01	0.90
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.90
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.90
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.90
5:Y:326:LEU:C	5:Y:327:ARG:CA	2.43	0.90
3:P:888:PRO:N	6:T:408:SER:C	2.29	0.90
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.90
3:P:888:PRO:N	6:T:408:SER:C	2.29	0.90
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.90
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.90
1:E:849:ASN:HA	2:O:301:LEU:O	1.72	0.90
1:E:849:ASN:HA	2:O:301:LEU:O	1.72	0.90
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.90
3:V:751:ALA:HB3	3:V:754:ARG:CB	2.02	0.90
3:D:751:ALA:HB3	3:D:754:ARG:CB	2.02	0.90
2:O:654:SER:CB	3:P:1454:ALA:O	2.19	0.90
2:U:620:GLY:HA2	3:V:1446:LYS:HA	1.53	0.90
2:C:778:ILE:HA	1:K:138:ASP:O	1.72	0.90
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.90
2:C:778:ILE:HA	1:K:138:ASP:O	1.72	0.90
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.90
2:C:778:ILE:HA	1:K:138:ASP:O	1.72	0.90
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.90
2:C:778:ILE:HA	1:K:138:ASP:O	1.72	0.90
2:C:778:ILE:HA	1:K:138:ASP:O	1.72	0.90
2:C:778:ILE:HA	1:K:138:ASP:O	1.72	0.90
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.90
2:C:535:TYR:CA	3:D:1663:GLN:HA	2.02	0.90
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.90
4:R:399:SER:C	4:R:400:GLY:HA3	1.93	0.90
2:C:722:LEU:C	1:K:128:TYR:O	2.15	0.89
2:C:722:LEU:C	1:K:128:TYR:O	2.15	0.89
2:C:722:LEU:C	1:K:128:TYR:O	2.15	0.89
2:C:722:LEU:C	1:K:128:TYR:O	2.15	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:722:LEU:C	1:K:128:TYR:O	2.15	0.89
2:C:722:LEU:C	1:K:128:TYR:O	2.15	0.89
3:P:751:ALA:HB3	3:P:754:ARG:CB	2.02	0.89
3:D:1511:GLN:N	3:P:1468:ALA:HB1	1.82	0.89
1:E:845:TYR:CB	2:O:299:ILE:CA	2.51	0.89
3:D:1511:GLN:N	3:P:1468:ALA:HB1	1.82	0.89
1:E:845:TYR:CB	2:O:299:ILE:CA	2.51	0.89
3:D:1511:GLN:N	3:P:1468:ALA:HB1	1.82	0.89
1:E:845:TYR:CB	2:O:299:ILE:CA	2.51	0.89
1:E:845:TYR:CB	2:O:299:ILE:CA	2.51	0.89
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.89
3:P:1663:GLN:CA	3:P:1667:ALA:HB2	2.01	0.89
3:D:1511:GLN:N	3:P:1468:ALA:HB1	1.82	0.89
3:D:1468:ALA:HB1	3:P:1511:GLN:N	1.82	0.89
3:D:1468:ALA:HB1	3:P:1511:GLN:N	1.82	0.89
3:D:1468:ALA:HB1	3:P:1511:GLN:N	1.82	0.89
3:D:1468:ALA:HB1	3:P:1511:GLN:N	1.82	0.89
3:J:751:ALA:HB3	3:J:754:ARG:CB	2.02	0.89
2:C:677:GLN:C	1:K:852:VAL:CB	2.45	0.89
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.89
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.89
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.89
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.89
3:D:1663:GLN:CA	3:D:1667:ALA:HB2	2.01	0.89
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.89
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.89
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.89
2:C:524:ARG:C	3:D:1610:PRO:N	2.30	0.89
2:C:303:ALA:HA	1:Q:849:ASN:CB	2.02	0.89
2:O:783:SER:CA	1:W:92:GLU:H	1.85	0.89
3:D:1511:GLN:CA	3:P:1468:ALA:CB	2.27	0.89
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.89
3:D:1511:GLN:CA	3:P:1468:ALA:CB	2.27	0.89
3:D:1511:GLN:CA	3:P:1468:ALA:CB	2.27	0.89
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.89
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.89
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.89
3:D:1511:GLN:CA	3:P:1468:ALA:CB	2.27	0.89
3:J:1663:GLN:CA	3:J:1667:ALA:HB2	2.01	0.89
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.89
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.88
2:O:523:LEU:N	3:P:1662:CYS:HA	1.88	0.88
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.88
2:O:523:LEU:N	3:P:1662:CYS:HA	1.88	0.88
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.88
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.88
4:L:451:GLU:CA	4:L:452:ARG:N	2.36	0.88
2:C:522:CYS:N	3:D:1662:CYS:C	2.30	0.88
2:O:522:CYS:N	3:P:1662:CYS:C	2.30	0.88
2:C:522:CYS:N	3:D:1662:CYS:C	2.30	0.88
2:O:522:CYS:N	3:P:1662:CYS:C	2.30	0.88
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.88
2:C:522:CYS:N	3:D:1662:CYS:C	2.30	0.88
2:O:522:CYS:N	3:P:1662:CYS:C	2.30	0.88
2:C:522:CYS:N	3:D:1662:CYS:C	2.30	0.88
2:O:522:CYS:N	3:P:1662:CYS:C	2.30	0.88
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.88
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.88
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.88
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.88
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.88
2:C:304:PRO:N	1:Q:849:ASN:CA	2.29	0.88
1:E:1305:GLN:HA	3:J:172:ARG:O	1.74	0.88
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.88
1:E:1305:GLN:HA	3:J:172:ARG:O	1.74	0.88
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.88
1:E:1305:GLN:HA	3:J:172:ARG:O	1.74	0.88
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.88
1:E:1305:GLN:HA	3:J:172:ARG:O	1.74	0.88
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.88
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.88
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.88
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88
2:C:355:TYR:HA	2:C:362:ARG:CB	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.88
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.88
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.88
4:R:451:GLU:CA	4:R:452:ARG:N	2.36	0.88
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.88
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.88
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.88
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.88
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.87
2:C:726:SER:CA	1:K:85:ARG:CB	2.50	0.87
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.87
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.87
2:C:726:SER:CA	1:K:85:ARG:CB	2.50	0.87
4:F:451:GLU:CA	4:F:452:ARG:N	2.36	0.87
2:C:726:SER:CA	1:K:85:ARG:CB	2.50	0.87
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.87
2:C:726:SER:CA	1:K:85:ARG:CB	2.50	0.87
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.87
2:C:726:SER:CA	1:K:85:ARG:CB	2.50	0.87
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.87
2:C:726:SER:CA	1:K:85:ARG:CB	2.50	0.87
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.87
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.87
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.87
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.87
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.87
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.87
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.87
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.87
4:F:453:TYR:CA	4:F:453:TYR:C	2.47	0.87
2:O:355:TYR:HA	2:O:362:ARG:CB	2.04	0.87
2:I:616:ALA:O	3:J:1446:LYS:HA	1.74	0.87
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.87
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.87
4:L:472:GLU:N	4:L:472:GLU:CB	2.38	0.87
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.87
4:L:472:GLU:N	4:L:472:GLU:CB	2.38	0.87
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.87
4:L:472:GLU:N	4:L:472:GLU:CB	2.38	0.87
4:L:453:TYR:CA	4:L:453:TYR:C	2.47	0.87
4:L:472:GLU:N	4:L:472:GLU:CB	2.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.87
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.87
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.87
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.87
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.87
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.87
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.87
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.87
1:E:1170:SER:H	1:K:576:TYR:CB	1.86	0.87
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.87
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.87
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.87
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.87
1:Q:1319:LYS:N	3:V:721:SER:CB	2.38	0.87
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.87
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.87
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.87
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.87
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.87
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.87
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.87
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.87
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.87
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.87
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.87
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.87
4:X:453:TYR:CA	4:X:453:TYR:C	2.47	0.87
2:C:534:LEU:CB	3:D:1666:SER:N	2.38	0.87
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.87
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.87
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
4:R:453:TYR:CA	4:R:453:TYR:C	2.47	0.87
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
2:I:355:TYR:HA	2:I:362:ARG:CB	2.04	0.87
2:U:355:TYR:HA	2:U:362:ARG:CB	2.04	0.87
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.87
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
2:I:618:ASN:C	3:J:1446:LYS:N	2.32	0.86
2:I:645:LEU:CA	3:J:1451:ARG:O	2.23	0.86
1:Q:1306:LEU:C	3:V:733:ASP:CB	2.46	0.86
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.86
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.86
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.86
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.86
2:C:173:PRO:HA	3:D:1686:PRO:CB	2.06	0.86
2:C:783:SER:CB	1:K:93:LEU:O	2.09	0.86
2:O:783:SER:CB	1:W:93:LEU:O	2.07	0.86
2:C:173:PRO:HA	3:D:1686:PRO:CB	2.06	0.86
2:C:783:SER:CB	1:K:93:LEU:O	2.09	0.86
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.86
2:O:783:SER:CB	1:W:93:LEU:O	2.07	0.86
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.86
2:C:173:PRO:HA	3:D:1686:PRO:CB	2.06	0.86
2:C:783:SER:CB	1:K:93:LEU:O	2.09	0.86
2:O:783:SER:CB	1:W:93:LEU:O	2.07	0.86
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.86
2:C:783:SER:CB	1:K:93:LEU:O	2.09	0.86
2:O:783:SER:CB	1:W:93:LEU:O	2.07	0.86
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.86
2:C:783:SER:CB	1:K:93:LEU:O	2.09	0.86
2:O:783:SER:CB	1:W:93:LEU:O	2.07	0.86
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.86
2:C:173:PRO:HA	3:D:1686:PRO:CB	2.06	0.86
2:C:783:SER:CB	1:K:93:LEU:O	2.09	0.86
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.86
2:O:783:SER:CB	1:W:93:LEU:O	2.07	0.86
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.86
4:X:472:GLU:N	4:X:472:GLU:CB	2.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:451:GLU:CA	4:X:452:ARG:N	2.36	0.86
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.86
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.86
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.86
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.86
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.86
4:L:458:ASP:CA	4:L:459:LEU:N	2.38	0.86
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.86
4:R:458:ASP:CA	4:R:459:LEU:N	2.38	0.86
4:X:458:ASP:CA	4:X:459:LEU:N	2.38	0.86
1:E:1233:VAL:CB	1:K:580:ALA:N	2.39	0.86
2:O:726:SER:CA	1:W:85:ARG:CB	2.53	0.86
1:E:1233:VAL:CB	1:K:580:ALA:N	2.39	0.86
2:O:726:SER:CA	1:W:85:ARG:CB	2.53	0.86
1:E:1233:VAL:CB	1:K:580:ALA:N	2.39	0.86
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
2:O:726:SER:CA	1:W:85:ARG:CB	2.53	0.86
1:E:1233:VAL:CB	1:K:580:ALA:N	2.39	0.86
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
2:O:726:SER:CA	1:W:85:ARG:CB	2.53	0.86
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
2:O:726:SER:CA	1:W:85:ARG:CB	2.53	0.86
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
2:O:726:SER:CA	1:W:85:ARG:CB	2.53	0.86
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
2:O:173:PRO:HA	3:P:1686:PRO:CB	2.06	0.86
3:P:884:GLN:CA	6:T:409:PRO:O	2.23	0.86
4:F:458:ASP:CA	4:F:459:LEU:N	2.38	0.86
4:L:472:GLU:N	4:L:472:GLU:CB	2.37	0.86
2:O:173:PRO:HA	3:P:1686:PRO:CB	2.06	0.86
3:P:884:GLN:CA	6:T:409:PRO:O	2.23	0.86
2:O:173:PRO:HA	3:P:1686:PRO:CB	2.06	0.86
4:L:472:GLU:N	4:L:472:GLU:CB	2.37	0.86
2:O:173:PRO:HA	3:P:1686:PRO:CB	2.06	0.86
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.86
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.86
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.86
2:O:786:ARG:CB	1:W:92:GLU:N	2.24	0.86
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.86
2:O:786:ARG:CB	1:W:92:GLU:N	2.24	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:449:SER:C	4:R:450:GLU:C	2.43	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.86
2:O:786:ARG:CB	1:W:92:GLU:N	2.24	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.86
2:O:786:ARG:CB	1:W:92:GLU:N	2.24	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.86
2:O:786:ARG:CB	1:W:92:GLU:N	2.24	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.86
2:O:786:ARG:CB	1:W:92:GLU:N	2.24	0.86
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.86
1:E:1239:ASP:CA	1:K:572:ALA:HA	2.06	0.86
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.86
1:E:1239:ASP:CA	1:K:572:ALA:HA	2.06	0.86
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.86
1:E:1239:ASP:CA	1:K:572:ALA:HA	2.06	0.86
1:E:1239:ASP:CA	1:K:572:ALA:HA	2.06	0.86
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.06	0.86
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.06	0.86
2:C:303:ALA:HA	1:Q:849:ASN:HA	1.52	0.86
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.86
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.86
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.86
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.06	0.86
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.86
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.86
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.06	0.86
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.86
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.06	0.86
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.86
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.86
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.86
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.86
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.86
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.06	0.86
1:Q:1354:LEU:C	3:V:872:LEU:CA	2.47	0.85
5:Y:379:HIS:CA	5:Y:379:HIS:C	2.49	0.85
1:E:853:ASP:H	2:O:304:PRO:CB	1.87	0.85
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.85
1:E:853:ASP:H	2:O:304:PRO:CB	1.87	0.85
1:E:853:ASP:H	2:O:304:PRO:CB	1.87	0.85
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:853:ASP:H	2:O:304:PRO:CB	1.87	0.85
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.85
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.85
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.85
4:F:449:SER:C	4:F:450:GLU:C	2.43	0.85
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.06	0.85
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.06	0.85
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.06	0.85
1:E:850:ALA:O	2:O:304:PRO:CB	2.23	0.85
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.06	0.85
1:E:850:ALA:O	2:O:304:PRO:CB	2.23	0.85
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.85
4:L:472:GLU:N	4:L:472:GLU:CB	2.37	0.85
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.85
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.85
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.85
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.85
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.85
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
5:S:379:HIS:CA	5:S:379:HIS:C	2.49	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
1:Q:1267:ILE:CB	3:V:677:ARG:O	1.88	0.85
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
3:P:884:GLN:CB	6:T:409:PRO:O	2.24	0.85
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.85
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.85
3:P:884:GLN:CB	6:T:409:PRO:O	2.24	0.85
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.85
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.85
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.85
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.85
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.85
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.85
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.85
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.85
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.85
5:G:379:HIS:CA	5:G:379:HIS:C	2.49	0.85
4:X:449:SER:C	4:X:450:GLU:C	2.43	0.85
1:E:1304:ASP:H	3:J:876:VAL:HA	1.33	0.85
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.85
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.85
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.85
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.85
4:L:449:SER:C	4:L:450:GLU:C	2.43	0.85
6:N:374:SER:CB	6:N:374:SER:C	2.50	0.85
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.85
2:C:522:CYS:CB	3:D:1664:ASP:CB	2.54	0.85
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.06	0.85
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.06	0.85
4:F:472:GLU:N	4:F:472:GLU:CB	2.37	0.85
5:M:379:HIS:CA	5:M:379:HIS:C	2.49	0.85
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.85
2:U:645:LEU:N	3:V:1450:GLU:HA	1.92	0.85
2:U:645:LEU:N	3:V:1450:GLU:HA	1.92	0.85
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.85
2:U:645:LEU:N	3:V:1450:GLU:HA	1.92	0.85
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.85
2:U:645:LEU:N	3:V:1450:GLU:HA	1.92	0.85
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.85
2:U:645:LEU:N	3:V:1450:GLU:HA	1.92	0.85
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.85
2:U:645:LEU:N	3:V:1450:GLU:HA	1.92	0.85
2:I:645:LEU:N	3:J:1450:GLU:HA	1.92	0.85
2:I:645:LEU:N	3:J:1450:GLU:HA	1.92	0.85
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.85
2:I:645:LEU:N	3:J:1450:GLU:HA	1.92	0.85
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:645:LEU:N	3:J:1450:GLU:HA	1.92	0.85
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.85
2:I:645:LEU:N	3:J:1450:GLU:HA	1.92	0.85
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.85
2:I:645:LEU:N	3:J:1450:GLU:HA	1.92	0.85
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.85
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.85
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.06	0.85
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.06	0.85
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.85
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.85
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.06	0.85
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.85
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.06	0.85
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.85
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.06	0.85
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.85
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.06	0.85
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.85
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.84
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.84
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.84
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.84
6:H:374:SER:CB	6:H:374:SER:C	2.50	0.84
5:M:326:LEU:CB	5:M:327:ARG:N	2.39	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.84
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.84
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.84
5:S:326:LEU:CB	5:S:327:ARG:N	2.39	0.84
2:C:306:PRO:HA	1:Q:849:ASN:CA	2.05	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:T:374:SER:CB	6:T:374:SER:C	2.50	0.84
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.84
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.84
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.06	0.84
2:O:676:ALA:HB1	1:W:799:CYS:CB	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.84
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.06	0.84
2:O:676:ALA:HB1	1:W:799:CYS:CB	2.06	0.84
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.06	0.84
2:O:676:ALA:HB1	1:W:799:CYS:CB	2.06	0.84
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.84
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.06	0.84
2:O:676:ALA:HB1	1:W:799:CYS:CB	2.06	0.84
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.84
2:C:304:PRO:CB	1:Q:850:ALA:O	2.23	0.84
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.06	0.84
2:O:676:ALA:HB1	1:W:799:CYS:CB	2.06	0.84
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.84
2:C:304:PRO:CB	1:Q:850:ALA:O	2.23	0.84
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.06	0.84
2:O:676:ALA:HB1	1:W:799:CYS:CB	2.06	0.84
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.84
1:Q:1356:ALA:N	3:V:872:LEU:CB	2.41	0.84
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.84
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.84
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.84
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.84
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.84
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
4:R:472:GLU:N	4:R:472:GLU:CB	2.37	0.84
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.84
6:Z:374:SER:CB	6:Z:374:SER:C	2.50	0.84
4:F:456:ASP:CA	4:F:457:ALA:N	2.33	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
3:P:884:GLN:CB	6:T:409:PRO:C	2.51	0.84
4:F:456:ASP:CA	4:F:457:ALA:N	2.33	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
3:P:884:GLN:CB	6:T:409:PRO:C	2.51	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
3:J:1663:GLN:C	3:J:1667:ALA:HB2	2.03	0.84
1:Q:1264:LEU:CB	3:V:687:ILE:C	2.51	0.84
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.84
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.84
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.84
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.84
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.84
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.84
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.84
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.84
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.84
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.84
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.84
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.84
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.84
1:E:852:VAL:CB	2:O:305:LEU:N	2.41	0.84
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.84
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.84
5:Y:326:LEU:CB	5:Y:327:ARG:N	2.39	0.84
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.84
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.84
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.84
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.84
2:C:535:TYR:CB	3:D:1663:GLN:CB	2.56	0.83
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.83
4:F:455:ILE:CB	4:F:455:ILE:C	2.50	0.83
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.83
4:X:456:ASP:CA	4:X:457:ALA:N	2.33	0.83
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.83
4:L:455:ILE:CB	4:L:455:ILE:C	2.50	0.83
4:X:456:ASP:CA	4:X:457:ALA:N	2.33	0.83
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.83
5:G:326:LEU:CB	5:G:327:ARG:N	2.39	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
2:U:622:PHE:CA	3:V:1449:TRP:CB	2.55	0.83
3:V:1663:GLN:C	3:V:1667:ALA:HB2	2.03	0.83
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.83
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.83
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.83
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.83
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.83
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.83
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.83
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.83
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.83
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.83
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.83
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.83
4:X:455:ILE:CB	4:X:455:ILE:C	2.50	0.83
1:E:1169:SER:CB	1:K:572:ALA:HA	2.07	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
2:C:174:GLY:HA2	3:D:1682:LYS:CB	2.08	0.83
2:C:174:GLY:HA2	3:D:1682:LYS:CB	2.08	0.83
2:C:174:GLY:HA2	3:D:1682:LYS:CB	2.08	0.83
2:C:174:GLY:HA2	3:D:1682:LYS:CB	2.08	0.83
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.83
2:U:645:LEU:CB	3:V:1450:GLU:O	2.25	0.83
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
4:F:402:ALA:HB3	4:F:403:ILE:H	1.04	0.83
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.83
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.83
3:D:1474:GLY:HA3	3:P:1472:SER:HA	0.83	0.83
2:O:174:GLY:HA2	3:P:1682:LYS:CB	2.07	0.83
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.83
3:D:1474:GLY:HA3	3:P:1472:SER:HA	0.83	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.83
2:O:174:GLY:HA2	3:P:1682:LYS:CB	2.07	0.83
4:R:455:ILE:CB	4:R:455:ILE:C	2.50	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1474:GLY:HA3	3:P:1472:SER:HA	0.83	0.83
2:O:174:GLY:HA2	3:P:1682:LYS:CB	2.07	0.83
3:D:1474:GLY:HA3	3:P:1472:SER:HA	0.83	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.83
2:O:174:GLY:HA2	3:P:1682:LYS:CB	2.07	0.83
1:E:852:VAL:HA	2:O:304:PRO:O	1.78	0.83
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.83
1:E:852:VAL:HA	2:O:304:PRO:O	1.78	0.83
1:E:852:VAL:HA	2:O:304:PRO:O	1.78	0.83
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.83
1:E:852:VAL:HA	2:O:304:PRO:O	1.78	0.83
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.83
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.83
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.83
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.83
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.83
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.83
2:C:15:GLN:C	2:C:15:GLN:N	2.36	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.83
4:R:311:GLN:C	4:R:311:GLN:N	2.36	0.83
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.83
1:Q:1304:ASP:C	3:V:733:ASP:CB	2.49	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.83
2:O:15:GLN:C	2:O:15:GLN:N	2.36	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.83
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.83
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.83
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.83
4:L:311:GLN:C	4:L:311:GLN:N	2.36	0.82
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.82
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.82
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.82
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.82
2:I:15:GLN:C	2:I:15:GLN:N	2.36	0.82
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.82
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.82
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.82
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.82
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.82
3:D:1663:GLN:C	3:D:1667:ALA:HB2	2.03	0.82
2:O:781:ARG:H	1:W:136:TYR:CA	1.93	0.82
2:O:781:ARG:H	1:W:136:TYR:CA	1.93	0.82
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.82
2:O:781:ARG:H	1:W:136:TYR:CA	1.93	0.82
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.82
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.82
2:O:781:ARG:H	1:W:136:TYR:CA	1.93	0.82
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.82
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.82
2:O:781:ARG:H	1:W:136:TYR:CA	1.93	0.82
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.82
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.82
2:O:781:ARG:H	1:W:136:TYR:CA	1.93	0.82
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.82
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.82
2:U:15:GLN:C	2:U:15:GLN:N	2.36	0.82
4:X:311:GLN:C	4:X:311:GLN:N	2.36	0.82
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.82
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.82
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.82
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.82
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.82
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.82
3:P:1663:GLN:C	3:P:1667:ALA:HB2	2.03	0.82
2:C:530:ARG:C	3:D:1664:ASP:HA	2.02	0.82
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.82
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.82
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.82
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.82
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.82
2:C:486:ARG:CB	3:D:1661:ARG:C	2.39	0.82
1:Q:1355:ASP:CA	3:V:872:LEU:CA	2.49	0.82
1:Q:1239:ASP:CB	1:W:576:TYR:CB	2.58	0.82
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.82
1:Q:1239:ASP:CB	1:W:576:TYR:CB	2.58	0.82
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.82
1:Q:1239:ASP:CB	1:W:576:TYR:CB	2.58	0.82
1:Q:1239:ASP:CB	1:W:576:TYR:CB	2.58	0.82
2:C:535:TYR:CB	3:D:1663:GLN:HA	2.10	0.82
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.82
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.82
4:R:402:ALA:HB3	4:R:403:ILE:H	1.04	0.82
4:F:456:ASP:CA	4:F:457:ALA:N	2.34	0.82
4:F:456:ASP:CA	4:F:457:ALA:N	2.34	0.82
4:F:456:ASP:CA	4:F:457:ALA:N	2.34	0.82
4:F:456:ASP:CA	4:F:457:ALA:N	2.34	0.82
6:H:374:SER:CB	6:H:374:SER:N	2.43	0.81
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.81
2:O:677:GLN:CA	1:W:796:LYS:C	2.50	0.81
2:O:677:GLN:CA	1:W:796:LYS:C	2.50	0.81
2:O:677:GLN:CA	1:W:796:LYS:C	2.50	0.81
2:O:677:GLN:CA	1:W:796:LYS:C	2.50	0.81
2:O:677:GLN:CA	1:W:796:LYS:C	2.50	0.81
2:O:677:GLN:CA	1:W:796:LYS:C	2.50	0.81
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.81
2:U:617:GLU:CA	3:V:1446:LYS:CB	2.58	0.81
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.81
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.81
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.81
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.81
2:C:535:TYR:H	3:D:1664:ASP:H	1.28	0.81
2:O:654:SER:O	3:P:1454:ALA:C	2.22	0.81
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.81
2:C:676:ALA:HB1	1:K:799:CYS:CB	2.11	0.81
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.81
2:C:676:ALA:HB1	1:K:799:CYS:CB	2.11	0.81
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.81
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.81
2:C:676:ALA:HB1	1:K:799:CYS:CB	2.11	0.81
2:C:676:ALA:HB1	1:K:799:CYS:CB	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:ALA:HB3	1:Q:848:ASP:N	1.76	0.81
2:C:676:ALA:HB1	1:K:799:CYS:CB	2.11	0.81
1:Q:1310:ARG:C	3:V:245:ASP:CB	2.30	0.81
2:C:303:ALA:HB3	1:Q:848:ASP:N	1.76	0.81
2:C:676:ALA:HB1	1:K:799:CYS:CB	2.11	0.81
1:Q:1310:ARG:C	3:V:245:ASP:CB	2.30	0.81
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.81
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.81
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.81
6:Z:411:GLU:O	6:Z:412:GLU:N	2.11	0.81
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.81
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.81
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.81
1:E:849:ASN:O	2:O:304:PRO:N	2.14	0.81
1:E:849:ASN:O	2:O:304:PRO:N	2.14	0.81
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.81
2:O:173:PRO:CA	3:P:1686:PRO:CA	1.90	0.81
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.81
2:O:173:PRO:CA	3:P:1686:PRO:CA	1.90	0.81
2:O:173:PRO:CA	3:P:1686:PRO:CA	1.90	0.81
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.81
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.81
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.81
2:O:173:PRO:CA	3:P:1686:PRO:CA	1.90	0.81
2:C:531:LEU:O	3:D:1663:GLN:C	2.23	0.81
4:F:311:GLN:C	4:F:311:GLN:N	2.36	0.81
5:G:339:TYR:C	5:G:340:ALA:CB	2.53	0.81
2:I:645:LEU:N	3:J:1451:ARG:O	2.14	0.81
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.81
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.81
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.81
6:H:374:SER:CB	6:H:374:SER:N	2.44	0.81
6:H:374:SER:CB	6:H:374:SER:N	2.44	0.81
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.81
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.81
2:C:304:PRO:N	1:Q:849:ASN:O	2.14	0.81
2:C:304:PRO:N	1:Q:849:ASN:O	2.14	0.81
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.81
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.81
1:Q:1320:PRO:N	3:V:722:ASN:CA	2.44	0.81
5:Y:339:TYR:C	5:Y:340:ALA:CB	2.53	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.81
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.81
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.81
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.81
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.81
5:S:339:TYR:C	5:S:340:ALA:CB	2.53	0.81
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.81
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.81
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.81
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.81
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.81
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.81
5:M:339:TYR:C	5:M:340:ALA:CB	2.53	0.81
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.81
3:J:286:GLN:CB	3:J:304:LYS:HA	2.11	0.81
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.81
2:C:173:PRO:N	3:D:1686:PRO:C	2.19	0.81
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.81
2:I:618:ASN:O	3:J:1445:LYS:CA	2.29	0.81
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.81
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.81
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.81
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.81
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.81
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.81
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.81
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.81
4:R:456:ASP:CA	4:R:457:ALA:N	2.33	0.81
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.81
1:E:1311:ASP:HA	3:J:798:TYR:O	1.80	0.80
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.80
6:H:411:GLU:O	6:H:412:GLU:N	2.11	0.80
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.80
1:Q:1233:VAL:H	1:W:579:GLU:CB	1.91	0.80
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.80
1:Q:1233:VAL:H	1:W:579:GLU:CB	1.91	0.80
1:Q:1233:VAL:H	1:W:579:GLU:CB	1.91	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
1:Q:1233:VAL:H	1:W:579:GLU:CB	1.91	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
1:Q:1305:GLN:HA	3:V:174:THR:CA	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.80
1:Q:1305:GLN:HA	3:V:174:THR:CA	2.10	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.80
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.80
3:D:1465:GLU:CA	3:P:1510:GLN:CB	2.56	0.80
3:D:1465:GLU:CA	3:P:1510:GLN:CB	2.56	0.80
3:D:1465:GLU:CA	3:P:1510:GLN:CB	2.56	0.80
3:D:1465:GLU:CA	3:P:1510:GLN:CB	2.56	0.80
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.80
4:F:471:GLN:C	4:F:472:GLU:CA	2.54	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.55	0.80
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.80
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.80
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.80
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.55	0.80
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.55	0.80
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.55	0.80
4:F:487:ASP:C	4:F:487:ASP:N	2.39	0.80
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.80
2:C:524:ARG:CB	3:D:1610:PRO:N	2.44	0.80
2:C:524:ARG:C	3:D:1610:PRO:HA	2.06	0.80
1:Q:1270:PHE:C	3:V:727:LEU:O	2.16	0.80
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.80
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.80
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.80
6:T:411:GLU:O	6:T:412:GLU:N	2.11	0.80
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.80
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.80
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.80
3:D:286:GLN:CB	3:D:304:LYS:HA	2.11	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.54	0.80
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.80
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.80
6:H:374:SER:CB	6:H:374:SER:N	2.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.80
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.80
6:H:374:SER:CB	6:H:374:SER:N	2.44	0.80
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.80
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.80
6:H:374:SER:CB	6:H:374:SER:N	2.44	0.80
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.80
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.80
6:H:374:SER:CB	6:H:374:SER:N	2.44	0.80
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.80
1:E:1239:ASP:CB	1:K:576:TYR:CB	2.60	0.80
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.80
1:E:1239:ASP:CB	1:K:576:TYR:CB	2.60	0.80
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.55	0.80
6:T:374:SER:CB	6:T:374:SER:N	2.44	0.80
1:E:1239:ASP:CB	1:K:576:TYR:CB	2.60	0.80
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.80
1:E:1239:ASP:CB	1:K:576:TYR:CB	2.60	0.80
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.80
6:Z:374:SER:CB	6:Z:374:SER:N	2.44	0.80
4:L:492:GLU:C	4:L:492:GLU:CB	2.55	0.80
2:C:677:GLN:C	1:K:847:ARG:CB	2.51	0.80
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.80
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.80
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.80
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.80
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.80
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.80
1:E:848:ASP:N	2:O:303:ALA:HB3	1.76	0.80
1:E:1309:SER:O	3:J:245:ASP:CB	2.29	0.80
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.80
1:Q:1309:SER:O	3:V:245:ASP:CB	2.29	0.80
1:E:848:ASP:N	2:O:303:ALA:HB3	1.76	0.80
1:E:1309:SER:O	3:J:245:ASP:CB	2.29	0.80
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.80
1:Q:1309:SER:O	3:V:245:ASP:CB	2.29	0.80
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.80
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:286:GLN:CB	3:P:304:LYS:HA	2.11	0.80
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.80
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.80
2:C:781:ARG:H	1:K:136:TYR:CA	1.95	0.80
4:F:471:GLN:C	4:F:472:GLU:CA	2.55	0.80
2:C:781:ARG:H	1:K:136:TYR:CA	1.95	0.80
4:F:471:GLN:C	4:F:472:GLU:CA	2.55	0.80
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.80
2:C:781:ARG:H	1:K:136:TYR:CA	1.95	0.80
2:C:781:ARG:H	1:K:136:TYR:CA	1.95	0.80
2:C:781:ARG:H	1:K:136:TYR:CA	1.95	0.80
1:E:1305:GLN:HA	3:J:174:THR:CA	2.10	0.80
2:C:781:ARG:H	1:K:136:TYR:CA	1.95	0.80
1:E:1305:GLN:HA	3:J:174:THR:CA	2.10	0.80
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.80
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.80
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.80
2:U:739:ASP:CA	3:V:1454:ALA:HB1	2.10	0.80
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.80
2:U:739:ASP:CA	3:V:1454:ALA:HB1	2.10	0.80
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.80
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.80
2:U:739:ASP:CA	3:V:1454:ALA:HB1	2.10	0.80
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.80
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.80
2:U:739:ASP:CA	3:V:1454:ALA:HB1	2.10	0.80
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.80
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.80
2:U:739:ASP:CA	3:V:1454:ALA:HB1	2.10	0.80
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.80
4:R:487:ASP:C	4:R:487:ASP:N	2.39	0.80
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.80
2:U:739:ASP:CA	3:V:1454:ALA:HB1	2.10	0.80
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.80
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.80
2:I:642:MET:O	3:J:1450:GLU:CB	2.30	0.80
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.80
2:I:642:MET:O	3:J:1450:GLU:CB	2.30	0.80
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.80
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.80
2:I:642:MET:O	3:J:1450:GLU:CB	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.80
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.80
2:I:642:MET:O	3:J:1450:GLU:CB	2.30	0.80
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.80
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.80
2:I:642:MET:O	3:J:1450:GLU:CB	2.30	0.80
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.80
4:F:158:ASN:HA	4:F:322:LEU:HA	1.62	0.80
2:I:642:MET:O	3:J:1450:GLU:CB	2.30	0.80
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.80
2:C:303:ALA:HA	1:Q:849:ASN:CA	2.08	0.79
4:L:487:ASP:C	4:L:487:ASP:N	2.39	0.79
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.79
3:V:286:GLN:CB	3:V:304:LYS:HA	2.11	0.79
4:X:492:GLU:C	4:X:492:GLU:CB	2.55	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.55	0.79
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.55	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
4:X:456:ASP:C	4:X:456:ASP:N	2.39	0.79
2:I:739:ASP:CA	3:J:1454:ALA:HB1	2.10	0.79
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
2:U:642:MET:O	3:V:1450:GLU:CB	2.30	0.79
2:U:642:MET:O	3:V:1450:GLU:CB	2.30	0.79
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.79
2:U:642:MET:O	3:V:1450:GLU:CB	2.30	0.79
2:U:642:MET:O	3:V:1450:GLU:CB	2.30	0.79
2:U:642:MET:O	3:V:1450:GLU:CB	2.30	0.79
2:U:642:MET:O	3:V:1450:GLU:CB	2.30	0.79
4:X:487:ASP:C	4:X:487:ASP:N	2.39	0.79
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.79
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1233:VAL:CB	1:W:579:GLU:HA	2.11	0.79
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.79
1:Q:1233:VAL:CB	1:W:579:GLU:HA	2.11	0.79
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.79
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.79
1:Q:1233:VAL:CB	1:W:579:GLU:HA	2.11	0.79
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.79
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.79
1:Q:1233:VAL:CB	1:W:579:GLU:HA	2.11	0.79
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.79
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.79
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.79
3:D:647:LEU:CB	3:D:706:ALA:HB1	2.12	0.79
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.79
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.79
4:F:488:ILE:N	4:F:488:ILE:HA	1.95	0.79
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.79
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.79
4:F:488:ILE:N	4:F:488:ILE:HA	1.95	0.79
4:R:492:GLU:C	4:R:492:GLU:CB	2.55	0.79
1:E:1307:PHE:O	3:J:871:GLN:O	2.01	0.79
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.79
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.55	0.79
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.79
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.79
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.79
6:Z:497:ARG:N	6:Z:497:ARG:C	2.40	0.79
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.79
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
4:X:402:ALA:HB3	4:X:403:ILE:H	1.04	0.79
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.79
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.79
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.79
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.79
3:D:1476:ALA:HB2	3:P:1476:ALA:HA	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.79
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.79
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.79
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.79
2:O:778:ILE:CA	1:W:138:ASP:C	2.53	0.79
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.79
3:D:1476:ALA:HB2	3:P:1476:ALA:HA	1.62	0.79
2:O:778:ILE:CA	1:W:138:ASP:C	2.53	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
3:D:1476:ALA:HB2	3:P:1476:ALA:HA	1.62	0.79
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.79
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.79
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.79
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.79
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.79
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.79
2:O:778:ILE:CA	1:W:138:ASP:C	2.53	0.79
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.54	0.79
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.79
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.79
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.79
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.79
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.79
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.79
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.79
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.79
2:O:778:ILE:CA	1:W:138:ASP:C	2.53	0.79
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.54	0.79
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.79
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.79
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.79
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.79
4:L:158:ASN:HA	4:L:322:LEU:HA	1.62	0.79
4:L:402:ALA:HB3	4:L:403:ILE:H	1.04	0.79
4:L:488:ILE:N	4:L:488:ILE:HA	1.94	0.79
6:N:374:SER:CB	6:N:374:SER:N	2.44	0.79
2:O:778:ILE:CA	1:W:138:ASP:C	2.53	0.79
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.54	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.79
4:X:158:ASN:HA	4:X:322:LEU:HA	1.62	0.79
3:D:1476:ALA:HB2	3:P:1476:ALA:HA	1.62	0.79
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.79
4:F:492:GLU:C	4:F:492:GLU:CB	2.55	0.79
2:O:778:ILE:CA	1:W:138:ASP:C	2.53	0.79
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.79
4:R:471:GLN:C	4:R:472:GLU:CA	2.54	0.79
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.79
5:Y:366:GLU:CB	5:Y:366:GLU:N	2.45	0.79
5:M:366:GLU:CB	5:M:366:GLU:N	2.45	0.79
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.79
1:Q:1305:GLN:HA	3:V:172:ARG:O	1.83	0.79
4:F:456:ASP:C	4:F:456:ASP:N	2.39	0.79
1:Q:1305:GLN:HA	3:V:172:ARG:O	1.83	0.79
1:Q:1305:GLN:HA	3:V:172:ARG:O	1.83	0.79
1:Q:1305:GLN:HA	3:V:172:ARG:O	1.83	0.79
3:D:1474:GLY:N	3:P:1472:SER:O	2.08	0.79
3:D:1474:GLY:N	3:P:1472:SER:O	2.08	0.79
3:D:1474:GLY:N	3:P:1472:SER:O	2.08	0.79
3:D:1474:GLY:N	3:P:1472:SER:O	2.08	0.79
1:E:1302:VAL:CA	3:J:876:VAL:CB	2.59	0.78
2:O:783:SER:CB	1:W:90:PRO:C	2.56	0.78
3:V:647:LEU:CB	3:V:706:ALA:HB1	2.12	0.78
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.78
4:L:471:GLN:C	4:L:472:GLU:CA	2.55	0.78
1:E:1361:LEU:CB	3:J:880:GLU:H	1.96	0.78
3:P:647:LEU:CB	3:P:706:ALA:HB1	2.12	0.78
3:D:1511:GLN:H	3:P:1468:ALA:HB1	1.45	0.78
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.78
3:D:1511:GLN:H	3:P:1468:ALA:HB1	1.45	0.78
3:D:1511:GLN:H	3:P:1468:ALA:HB1	1.45	0.78
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.78
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.78
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.78
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.78
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.78
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.78
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.78
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.78
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.78
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.78
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.78
3:D:1511:GLN:H	3:P:1468:ALA:HB1	1.45	0.78
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.78
4:R:158:ASN:HA	4:R:322:LEU:HA	1.62	0.78
5:S:366:GLU:CB	5:S:366:GLU:N	2.45	0.78
2:C:535:TYR:CB	3:D:1663:GLN:CA	2.62	0.78
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.78
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.78
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.78
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.78
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.78
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.78
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.78
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.78
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.78
3:D:1476:ALA:HA	3:P:1476:ALA:HB2	1.63	0.78
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.78
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.78
3:D:1476:ALA:HA	3:P:1476:ALA:HB2	1.63	0.78
3:D:1476:ALA:HA	3:P:1476:ALA:HB2	1.63	0.78
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.78
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.78
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.78
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.78
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.78
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.78
3:D:1476:ALA:HA	3:P:1476:ALA:HB2	1.63	0.78
2:C:304:PRO:N	1:Q:849:ASN:C	2.39	0.78
4:F:457:ALA:CB	4:F:457:ALA:H	1.95	0.78
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.78
6:N:411:GLU:O	6:N:412:GLU:N	2.11	0.78
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.78
4:X:471:GLN:C	4:X:472:GLU:CA	2.55	0.78
2:C:679:ILE:O	1:K:854:GLY:N	1.98	0.78
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.78
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.78
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.78
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.78
6:H:497:ARG:N	6:H:497:ARG:C	2.40	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.78
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.78
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.78
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.78
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.78
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.78
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.78
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.78
2:I:645:LEU:CA	3:J:1451:ARG:CB	2.60	0.78
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.78
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.78
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.78
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.78
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.78
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.78
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.78
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.78
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.78
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.78
6:T:497:ARG:N	6:T:497:ARG:CB	2.43	0.78
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.78
2:O:591:GLY:CA	1:W:849:ASN:O	2.32	0.78
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.78
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.78
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.78
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.78
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.78
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.78
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.78
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.78
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.78
4:F:456:ASP:O	4:F:457:ALA:C	2.18	0.78
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.78
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.78
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.78
3:D:1472:SER:HA	3:P:1474:GLY:HA3	0.79	0.78
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.78
2:O:174:GLY:CA	3:P:1682:LYS:CB	2.62	0.78
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.78
3:D:1472:SER:HA	3:P:1474:GLY:HA3	0.79	0.78
5:G:366:GLU:CB	5:G:366:GLU:N	2.45	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.78
2:O:174:GLY:CA	3:P:1682:LYS:CB	2.62	0.78
3:D:1472:SER:HA	3:P:1474:GLY:HA3	0.79	0.78
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.78
2:O:174:GLY:CA	3:P:1682:LYS:CB	2.62	0.78
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.78
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.78
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.78
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.78
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.78
3:D:1472:SER:HA	3:P:1474:GLY:HA3	0.79	0.78
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.78
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.78
2:O:174:GLY:CA	3:P:1682:LYS:CB	2.62	0.78
2:C:534:LEU:CB	3:D:1665:VAL:C	2.52	0.77
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.77
1:Q:1312:PRO:CB	3:V:723:LEU:H	1.96	0.77
4:R:235:ASP:CB	4:R:235:ASP:N	2.47	0.77
4:X:456:ASP:CA	4:X:457:ALA:N	2.34	0.77
4:F:471:GLN:C	4:F:472:GLU:CA	2.55	0.77
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.77
3:D:714:LEU:O	3:D:718:SER:HA	1.84	0.77
4:F:471:GLN:C	4:F:472:GLU:CA	2.55	0.77
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.77
3:D:714:LEU:O	3:D:718:SER:HA	1.84	0.77
4:F:471:GLN:C	4:F:472:GLU:CA	2.55	0.77
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.77
4:F:471:GLN:C	4:F:472:GLU:CA	2.55	0.77
4:R:488:ILE:N	4:R:488:ILE:HA	1.94	0.77
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.77
4:X:235:ASP:CB	4:X:235:ASP:N	2.47	0.77
2:C:174:GLY:CA	3:D:1682:LYS:CB	2.62	0.77
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.77
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.77
2:C:174:GLY:CA	3:D:1682:LYS:CB	2.62	0.77
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.77
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.77
2:C:174:GLY:CA	3:D:1682:LYS:CB	2.62	0.77
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.77
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.77
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:174:GLY:CA	3:D:1682:LYS:CB	2.62	0.77
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.77
1:E:1307:PHE:C	3:J:871:GLN:O	2.27	0.77
4:L:456:ASP:C	4:L:456:ASP:N	2.39	0.77
6:T:381:LYS:N	6:T:381:LYS:C	2.42	0.77
4:X:299:ASN:C	4:X:299:ASN:N	2.42	0.77
2:C:173:PRO:N	3:D:1686:PRO:HA	1.99	0.77
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.77
2:C:173:PRO:N	3:D:1686:PRO:HA	1.99	0.77
5:G:342:PRO:C	5:G:343:ALA:C	2.49	0.77
2:C:173:PRO:N	3:D:1686:PRO:HA	1.99	0.77
3:P:714:LEU:O	3:P:718:SER:HA	1.84	0.77
3:P:714:LEU:O	3:P:718:SER:HA	1.84	0.77
2:C:173:PRO:N	3:D:1686:PRO:HA	1.99	0.77
6:T:408:SER:HA	6:T:410:LEU:N	1.97	0.77
2:C:173:PRO:CA	3:D:1686:PRO:CA	1.91	0.77
2:C:173:PRO:CA	3:D:1686:PRO:CA	1.91	0.77
2:C:173:PRO:CA	3:D:1686:PRO:CA	1.91	0.77
2:C:303:ALA:HB3	1:Q:848:ASP:H	1.47	0.77
2:C:173:PRO:CA	3:D:1686:PRO:CA	1.91	0.77
2:C:303:ALA:HB3	1:Q:848:ASP:H	1.47	0.77
3:J:647:LEU:CB	3:J:706:ALA:HB1	2.12	0.77
4:L:235:ASP:CB	4:L:235:ASP:N	2.47	0.77
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.77
1:E:276:ASP:CB	1:E:295:SER:CB	2.63	0.77
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.77
1:W:276:ASP:CB	1:W:295:SER:CB	2.63	0.77
4:X:457:ALA:CB	4:X:457:ALA:H	1.95	0.77
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.77
2:O:173:PRO:N	3:P:1686:PRO:HA	1.99	0.77
2:O:173:PRO:N	3:P:1686:PRO:HA	1.99	0.77
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.77
2:O:173:PRO:N	3:P:1686:PRO:HA	1.99	0.77
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.77
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.77
2:O:173:PRO:N	3:P:1686:PRO:HA	1.99	0.77
2:I:644:LYS:H	3:J:1453:THR:HA	0.64	0.77
3:D:1468:ALA:CB	3:P:1511:GLN:H	1.94	0.77
3:D:1468:ALA:CB	3:P:1511:GLN:H	1.94	0.77
3:D:1468:ALA:CB	3:P:1511:GLN:H	1.94	0.77
6:H:408:SER:HA	6:H:410:LEU:N	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.77
6:H:408:SER:HA	6:H:410:LEU:N	1.98	0.77
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.77
6:H:408:SER:HA	6:H:410:LEU:N	1.98	0.77
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.77
3:D:1468:ALA:CB	3:P:1511:GLN:H	1.94	0.77
6:H:408:SER:HA	6:H:410:LEU:N	1.98	0.77
4:R:457:ALA:CB	4:R:457:ALA:H	1.95	0.77
2:C:523:LEU:N	3:D:1613:VAL:CB	2.48	0.77
1:Q:1355:ASP:HA	3:V:872:LEU:HA	0.84	0.77
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.77
6:T:408:SER:HA	6:T:410:LEU:N	1.98	0.77
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.77
6:T:408:SER:HA	6:T:410:LEU:N	1.98	0.77
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.77
6:T:408:SER:HA	6:T:410:LEU:N	1.98	0.77
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.77
6:T:408:SER:HA	6:T:410:LEU:N	1.98	0.77
2:C:676:ALA:C	1:K:846:ILE:O	2.28	0.77
6:H:497:ARG:N	6:H:497:ARG:CB	2.43	0.77
3:D:1510:GLN:CB	3:P:1465:GLU:CA	2.58	0.77
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.77
3:V:714:LEU:O	3:V:718:SER:HA	1.84	0.77
3:D:1510:GLN:CB	3:P:1465:GLU:CA	2.58	0.77
4:F:299:ASN:C	4:F:299:ASN:N	2.42	0.77
3:V:714:LEU:O	3:V:718:SER:HA	1.84	0.77
6:Z:408:SER:HA	6:Z:410:LEU:N	1.97	0.77
3:D:1510:GLN:CB	3:P:1465:GLU:CA	2.58	0.77
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.77
3:V:714:LEU:O	3:V:718:SER:HA	1.84	0.77
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.77
3:V:714:LEU:O	3:V:718:SER:HA	1.84	0.77
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.77
3:V:714:LEU:O	3:V:718:SER:HA	1.84	0.77
3:D:1510:GLN:CB	3:P:1465:GLU:CA	2.58	0.77
6:H:381:LYS:N	6:H:381:LYS:C	2.42	0.77
3:V:714:LEU:O	3:V:718:SER:HA	1.84	0.77
6:Z:408:SER:HA	6:Z:410:LEU:N	1.97	0.77
1:K:276:ASP:CB	1:K:295:SER:CB	2.63	0.77
6:Z:408:SER:HA	6:Z:410:LEU:N	1.98	0.77
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.77
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.77
6:T:497:ARG:N	6:T:497:ARG:C	2.40	0.77
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.77
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.77
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.77
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.77
1:A:276:ASP:CB	1:A:295:SER:CB	2.63	0.76
1:Q:1365:GLN:CB	3:V:880:GLU:O	2.33	0.76
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.76
5:M:342:PRO:C	5:M:343:ALA:C	2.49	0.76
1:Q:1354:LEU:C	3:V:871:GLN:C	2.53	0.76
3:D:714:LEU:O	3:D:718:SER:HA	1.84	0.76
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.76
2:O:779:GLU:HA	1:W:122:ASP:HA	1.67	0.76
3:D:714:LEU:O	3:D:718:SER:HA	1.84	0.76
2:O:779:GLU:HA	1:W:122:ASP:HA	1.67	0.76
3:D:714:LEU:O	3:D:718:SER:HA	1.84	0.76
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.76
2:O:779:GLU:HA	1:W:122:ASP:HA	1.67	0.76
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.76
2:O:779:GLU:HA	1:W:122:ASP:HA	1.67	0.76
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.76
2:O:779:GLU:HA	1:W:122:ASP:HA	1.67	0.76
3:D:714:LEU:O	3:D:718:SER:HA	1.84	0.76
2:O:779:GLU:HA	1:W:122:ASP:HA	1.67	0.76
4:F:456:ASP:CA	4:F:457:ALA:N	2.33	0.76
4:L:299:ASN:C	4:L:299:ASN:N	2.42	0.76
3:D:1468:ALA:HB1	3:P:1511:GLN:H	1.47	0.76
1:E:1305:GLN:CB	3:J:172:ARG:CB	2.63	0.76
2:I:739:ASP:N	3:J:1454:ALA:HB2	1.99	0.76
2:O:729:GLU:CB	1:W:84:ILE:O	2.34	0.76
3:P:714:LEU:O	3:P:718:SER:HA	1.84	0.76
3:D:1468:ALA:HB1	3:P:1511:GLN:H	1.47	0.76
1:E:1305:GLN:CB	3:J:172:ARG:CB	2.63	0.76
2:I:739:ASP:N	3:J:1454:ALA:HB2	1.99	0.76
2:O:729:GLU:CB	1:W:84:ILE:O	2.34	0.76
3:P:714:LEU:O	3:P:718:SER:HA	1.84	0.76
3:D:1468:ALA:HB1	3:P:1511:GLN:H	1.47	0.76
1:E:1305:GLN:CB	3:J:172:ARG:CB	2.63	0.76
2:I:739:ASP:N	3:J:1454:ALA:HB2	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:729:GLU:CB	1:W:84:ILE:O	2.34	0.76
3:P:714:LEU:O	3:P:718:SER:HA	1.84	0.76
1:E:1305:GLN:CB	3:J:172:ARG:CB	2.63	0.76
2:I:739:ASP:N	3:J:1454:ALA:HB2	1.99	0.76
2:O:729:GLU:CB	1:W:84:ILE:O	2.34	0.76
1:E:848:ASP:H	2:O:303:ALA:HB3	1.47	0.76
2:I:739:ASP:N	3:J:1454:ALA:HB2	1.99	0.76
2:O:729:GLU:CB	1:W:84:ILE:O	2.34	0.76
3:D:1468:ALA:HB1	3:P:1511:GLN:H	1.47	0.76
1:E:848:ASP:H	2:O:303:ALA:HB3	1.47	0.76
2:I:739:ASP:N	3:J:1454:ALA:HB2	1.99	0.76
2:O:729:GLU:CB	1:W:84:ILE:O	2.34	0.76
3:P:714:LEU:O	3:P:718:SER:HA	1.84	0.76
2:I:620:GLY:N	3:J:1446:LYS:HA	1.99	0.76
6:N:497:ARG:N	6:N:497:ARG:C	2.40	0.76
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.76
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.76
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.76
3:J:714:LEU:O	3:J:718:SER:HA	1.84	0.76
2:O:781:ARG:N	1:W:136:TYR:CB	2.48	0.76
1:Q:1239:ASP:O	1:W:572:ALA:HB2	1.85	0.76
2:U:739:ASP:N	3:V:1454:ALA:HB2	1.99	0.76
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.76
3:J:714:LEU:O	3:J:718:SER:HA	1.84	0.76
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.76
2:O:781:ARG:N	1:W:136:TYR:CB	2.48	0.76
1:Q:1239:ASP:O	1:W:572:ALA:HB2	1.85	0.76
2:U:739:ASP:N	3:V:1454:ALA:HB2	1.99	0.76
3:J:714:LEU:O	3:J:718:SER:HA	1.84	0.76
2:O:781:ARG:N	1:W:136:TYR:CB	2.48	0.76
1:Q:1239:ASP:O	1:W:572:ALA:HB2	1.85	0.76
2:U:739:ASP:N	3:V:1454:ALA:HB2	1.99	0.76
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.76
3:J:714:LEU:O	3:J:718:SER:HA	1.84	0.76
2:O:781:ARG:N	1:W:136:TYR:CB	2.48	0.76
1:Q:1239:ASP:O	1:W:572:ALA:HB2	1.85	0.76
2:U:739:ASP:N	3:V:1454:ALA:HB2	1.99	0.76
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.76
3:J:714:LEU:O	3:J:718:SER:HA	1.84	0.76
2:O:781:ARG:N	1:W:136:TYR:CB	2.48	0.76
2:U:739:ASP:N	3:V:1454:ALA:HB2	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.76
3:J:714:LEU:O	3:J:718:SER:HA	1.84	0.76
6:N:381:LYS:N	6:N:381:LYS:C	2.42	0.76
2:O:781:ARG:N	1:W:136:TYR:CB	2.48	0.76
2:U:739:ASP:N	3:V:1454:ALA:HB2	1.99	0.76
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.76
1:Q:276:ASP:CB	1:Q:295:SER:CB	2.63	0.76
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.76
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.76
6:H:408:SER:HA	6:H:410:LEU:N	1.97	0.76
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.76
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.76
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.76
6:H:408:SER:HA	6:H:410:LEU:N	1.97	0.76
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.76
4:R:299:ASN:C	4:R:299:ASN:N	2.42	0.76
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.76
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.76
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.76
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.76
3:D:1511:GLN:H	3:P:1468:ALA:CB	1.94	0.76
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.76
3:P:884:GLN:N	6:T:409:PRO:O	2.19	0.76
3:D:1511:GLN:H	3:P:1468:ALA:CB	1.94	0.76
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.76
3:P:884:GLN:N	6:T:409:PRO:O	2.19	0.76
3:D:1511:GLN:H	3:P:1468:ALA:CB	1.94	0.76
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.76
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.76
4:L:456:ASP:O	4:L:457:ALA:C	2.18	0.76
3:D:1511:GLN:H	3:P:1468:ALA:CB	1.94	0.76
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.76
4:F:235:ASP:CB	4:F:235:ASP:N	2.47	0.76
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.76
2:I:621:LEU:N	3:J:1449:TRP:CB	2.48	0.76
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.76
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.76
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.76
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.76
2:C:522:CYS:N	3:D:1662:CYS:C	2.43	0.76
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.76
2:C:522:CYS:N	3:D:1662:CYS:C	2.43	0.76
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.76
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.76
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.76
6:N:497:ARG:N	6:N:497:ARG:CB	2.43	0.76
1:B:276:ASP:CB	1:B:295:SER:CB	2.63	0.76
1:Q:1309:SER:N	3:V:733:ASP:HA	2.00	0.76
2:C:785:LEU:N	1:K:131:GLY:O	2.18	0.76
6:T:408:SER:HA	6:T:410:LEU:N	1.98	0.76
2:C:785:LEU:N	1:K:131:GLY:O	2.18	0.76
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.76
6:T:408:SER:HA	6:T:410:LEU:N	1.98	0.76
2:C:785:LEU:N	1:K:131:GLY:O	2.18	0.76
2:C:785:LEU:N	1:K:131:GLY:O	2.18	0.76
2:C:299:ILE:CB	1:Q:845:TYR:CB	2.63	0.76
2:C:785:LEU:N	1:K:131:GLY:O	2.18	0.76
1:E:845:TYR:CB	2:O:299:ILE:CB	2.63	0.76
2:C:299:ILE:CB	1:Q:845:TYR:CB	2.63	0.76
2:C:785:LEU:N	1:K:131:GLY:O	2.18	0.76
1:E:845:TYR:CB	2:O:299:ILE:CB	2.63	0.76
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.76
6:H:408:SER:HA	6:H:410:LEU:N	1.98	0.76
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.76
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.76
6:Z:408:SER:HA	6:Z:410:LEU:N	1.97	0.76
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.76
5:S:342:PRO:C	5:S:343:ALA:C	2.49	0.76
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.76
6:Z:408:SER:HA	6:Z:410:LEU:N	1.97	0.76
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.76
6:Z:408:SER:HA	6:Z:410:LEU:N	1.97	0.76
1:E:1304:ASP:O	3:J:174:THR:CB	2.33	0.76
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.76
6:Z:408:SER:HA	6:Z:410:LEU:N	1.97	0.76
1:E:1304:ASP:O	3:J:174:THR:CB	2.33	0.76
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.76
1:E:1165:TYR:HA	1:K:727:PHE:N	2.00	0.75
3:D:1472:SER:O	3:P:1474:GLY:N	2.10	0.75
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.75
2:U:643:ASN:CB	3:V:1452:LEU:O	2.33	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:SER:O	3:P:1474:GLY:N	2.10	0.75
2:U:643:ASN:CB	3:V:1452:LEU:O	2.33	0.75
3:D:1472:SER:O	3:P:1474:GLY:N	2.10	0.75
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.75
2:U:643:ASN:CB	3:V:1452:LEU:O	2.33	0.75
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.75
2:U:643:ASN:CB	3:V:1452:LEU:O	2.33	0.75
1:E:848:ASP:CB	2:O:303:ALA:HB2	2.15	0.75
1:E:1301:GLU:O	3:J:172:ARG:O	2.04	0.75
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.75
1:Q:1304:ASP:O	3:V:174:THR:CB	2.33	0.75
2:U:643:ASN:CB	3:V:1452:LEU:O	2.33	0.75
3:D:1472:SER:O	3:P:1474:GLY:N	2.10	0.75
1:E:848:ASP:CB	2:O:303:ALA:HB2	2.15	0.75
1:E:1301:GLU:O	3:J:172:ARG:O	2.04	0.75
1:Q:1304:ASP:O	3:V:174:THR:CB	2.33	0.75
2:U:643:ASN:CB	3:V:1452:LEU:O	2.33	0.75
4:L:486:GLU:C	4:L:487:ASP:C	2.54	0.75
1:Q:1285:VAL:C	3:V:680:SER:CB	2.60	0.75
2:I:643:ASN:CB	3:J:1452:LEU:O	2.33	0.75
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.75
1:Q:1233:VAL:CB	1:W:579:GLU:CA	2.63	0.75
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.75
4:X:456:ASP:CA	4:X:457:ALA:N	2.33	0.75
2:I:643:ASN:CB	3:J:1452:LEU:O	2.33	0.75
1:Q:1233:VAL:CB	1:W:579:GLU:CA	2.63	0.75
4:R:456:ASP:C	4:R:456:ASP:N	2.39	0.75
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.75
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.75
4:F:488:ILE:N	4:F:488:ILE:HA	1.95	0.75
2:I:643:ASN:CB	3:J:1452:LEU:O	2.33	0.75
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.75
1:Q:1233:VAL:CB	1:W:579:GLU:CA	2.63	0.75
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.75
4:X:456:ASP:CA	4:X:457:ALA:N	2.33	0.75
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.75
4:F:488:ILE:N	4:F:488:ILE:HA	1.95	0.75
2:I:643:ASN:CB	3:J:1452:LEU:O	2.33	0.75
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.75
1:Q:1233:VAL:CB	1:W:579:GLU:CA	2.63	0.75
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:456:ASP:CA	4:X:457:ALA:N	2.33	0.75
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.75
4:F:488:ILE:N	4:F:488:ILE:HA	1.95	0.75
2:I:643:ASN:CB	3:J:1452:LEU:O	2.33	0.75
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.75
1:Q:1347:ARG:C	1:W:957:GLU:H	1.93	0.75
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.75
4:X:456:ASP:CA	4:X:457:ALA:N	2.33	0.75
4:F:450:GLU:N	4:F:450:GLU:C	2.44	0.75
4:F:488:ILE:N	4:F:488:ILE:HA	1.95	0.75
2:I:643:ASN:CB	3:J:1452:LEU:O	2.33	0.75
1:Q:1347:ARG:C	1:W:957:GLU:H	1.93	0.75
4:R:450:GLU:N	4:R:450:GLU:C	2.44	0.75
6:Z:381:LYS:N	6:Z:381:LYS:C	2.42	0.75
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.75
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.75
2:C:780:ASP:C	1:K:136:TYR:CB	2.60	0.75
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.75
2:C:780:ASP:C	1:K:136:TYR:CB	2.60	0.75
2:C:780:ASP:C	1:K:136:TYR:CB	2.60	0.75
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.75
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.75
2:C:780:ASP:C	1:K:136:TYR:CB	2.60	0.75
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.75
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.75
2:C:780:ASP:C	1:K:136:TYR:CB	2.60	0.75
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.75
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.75
2:C:780:ASP:C	1:K:136:TYR:CB	2.60	0.75
4:R:456:ASP:O	4:R:457:ALA:C	2.18	0.75
4:F:488:ILE:N	4:F:488:ILE:HA	1.94	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.75
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.75
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
4:L:450:GLU:N	4:L:450:GLU:C	2.44	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
4:X:450:GLU:N	4:X:450:GLU:C	2.44	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
1:Q:1301:GLU:O	3:V:172:ARG:O	2.04	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
1:Q:1301:GLU:O	3:V:172:ARG:O	2.04	0.75
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.75
2:O:724:GLN:CB	1:W:508:SER:H	2.00	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.75
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.75
2:O:724:GLN:CB	1:W:508:SER:H	2.00	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
2:O:724:GLN:CB	1:W:508:SER:H	2.00	0.75
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.75
2:O:724:GLN:CB	1:W:508:SER:H	2.00	0.75
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.75
2:C:303:ALA:HB2	1:Q:848:ASP:CB	2.15	0.75
2:O:724:GLN:CB	1:W:508:SER:H	2.00	0.75
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.75
2:C:303:ALA:HB2	1:Q:848:ASP:CB	2.15	0.75
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.75
2:O:724:GLN:CB	1:W:508:SER:H	2.00	0.75
4:X:486:GLU:C	4:X:487:ASP:C	2.54	0.75
2:I:617:GLU:HA	3:J:1446:LYS:O	1.73	0.75
2:C:781:ARG:N	1:K:136:TYR:CB	2.50	0.75
2:C:781:ARG:N	1:K:136:TYR:CB	2.50	0.75
2:C:781:ARG:N	1:K:136:TYR:CB	2.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.75
2:C:781:ARG:N	1:K:136:TYR:CB	2.50	0.75
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.75
2:C:781:ARG:N	1:K:136:TYR:CB	2.50	0.75
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.75
2:C:781:ARG:N	1:K:136:TYR:CB	2.50	0.75
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.75
4:R:455:ILE:C	4:R:457:ALA:N	2.45	0.75
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.75
1:E:326:ALA:HB1	1:E:387:LEU:CB	2.17	0.75
6:N:408:SER:HA	6:N:410:LEU:N	1.97	0.75
1:W:326:ALA:HB1	1:W:387:LEU:CB	2.17	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
1:K:326:ALA:HB1	1:K:387:LEU:CB	2.17	0.75
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.74
2:C:305:LEU:N	1:Q:851:ALA:C	2.43	0.74
2:O:780:ASP:C	1:W:136:TYR:CB	2.60	0.74
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.74
2:C:305:LEU:N	1:Q:851:ALA:C	2.43	0.74
2:O:780:ASP:C	1:W:136:TYR:CB	2.60	0.74
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.74
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.74
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.74
2:C:305:LEU:N	1:Q:851:ALA:C	2.43	0.74
2:O:780:ASP:C	1:W:136:TYR:CB	2.60	0.74
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.74
2:C:305:LEU:N	1:Q:851:ALA:C	2.43	0.74
2:O:780:ASP:C	1:W:136:TYR:CB	2.60	0.74
1:Q:326:ALA:HB1	1:Q:387:LEU:CB	2.17	0.74
2:C:304:PRO:N	1:Q:851:ALA:H	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:780:ASP:C	1:W:136:TYR:CB	2.60	0.74
2:C:304:PRO:N	1:Q:851:ALA:H	1.85	0.74
2:O:780:ASP:C	1:W:136:TYR:CB	2.60	0.74
4:X:455:ILE:C	4:X:457:ALA:N	2.45	0.74
6:Z:497:ARG:N	6:Z:497:ARG:CB	2.43	0.74
1:E:1347:ARG:C	1:K:957:GLU:H	1.93	0.74
1:E:1347:ARG:C	1:K:957:GLU:H	1.93	0.74
2:O:589:ASN:O	1:W:849:ASN:CB	2.35	0.74
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.74
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.74
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.74
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.74
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.74
4:L:455:ILE:C	4:L:457:ALA:N	2.45	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
2:C:779:GLU:HA	1:K:122:ASP:HA	1.69	0.74
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
2:C:779:GLU:HA	1:K:122:ASP:HA	1.69	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
2:C:779:GLU:HA	1:K:122:ASP:HA	1.69	0.74
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
2:C:779:GLU:HA	1:K:122:ASP:HA	1.69	0.74
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
2:C:779:GLU:HA	1:K:122:ASP:HA	1.69	0.74
1:E:851:ALA:H	2:O:304:PRO:N	1.85	0.74
4:X:456:ASP:O	4:X:457:ALA:C	2.18	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
2:C:779:GLU:HA	1:K:122:ASP:HA	1.69	0.74
1:E:851:ALA:H	2:O:304:PRO:N	1.85	0.74
4:L:457:ALA:CB	4:L:457:ALA:H	1.95	0.74
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.74
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.74
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.74
4:R:486:GLU:C	4:R:487:ASP:C	2.54	0.74
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.74
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.74
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.74
1:A:326:ALA:HB1	1:A:387:LEU:CB	2.17	0.74
2:O:591:GLY:HA3	1:W:849:ASN:O	1.66	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:342:PRO:C	5:Y:343:ALA:C	2.49	0.74
1:E:1310:ARG:C	3:J:245:ASP:CB	2.30	0.74
1:E:1310:ARG:C	3:J:245:ASP:CB	2.30	0.74
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.74
4:X:260:THR:CB	4:X:260:THR:C	2.61	0.74
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.74
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.74
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.74
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.74
1:B:326:ALA:HB1	1:B:387:LEU:CB	2.17	0.74
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.74
4:F:486:GLU:C	4:F:487:ASP:C	2.54	0.74
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.74
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.74
3:P:880:GLU:C	6:T:412:GLU:CB	2.61	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
3:P:880:GLU:C	6:T:412:GLU:CB	2.61	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
4:R:400:GLY:C	4:R:401:TYR:C	2.56	0.73
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.73
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.73
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.73
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.73
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.73
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.73
1:Q:1308:LYS:O	3:V:732:PHE:CB	2.36	0.73
1:E:1233:VAL:CB	1:K:579:GLU:HA	2.18	0.73
1:E:1233:VAL:CB	1:K:579:GLU:HA	2.18	0.73
1:E:1233:VAL:CB	1:K:579:GLU:HA	2.18	0.73
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.73
1:E:1233:VAL:CB	1:K:579:GLU:HA	2.18	0.73
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.73
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.73
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.73
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.73
4:L:260:THR:CB	4:L:260:THR:C	2.60	0.73
2:C:302:PRO:O	1:Q:849:ASN:CA	2.36	0.73
2:C:302:PRO:O	1:Q:849:ASN:CA	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:302:PRO:O	1:Q:849:ASN:CA	2.36	0.73
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.73
2:C:302:PRO:O	1:Q:849:ASN:CA	2.36	0.73
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.73
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.73
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.73
4:F:455:ILE:C	4:F:457:ALA:N	2.45	0.73
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.73
4:R:260:THR:CB	4:R:260:THR:C	2.60	0.73
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.73
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.73
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.73
1:Q:1301:GLU:CA	3:V:172:ARG:O	2.37	0.73
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.73
1:Q:1301:GLU:CA	3:V:172:ARG:O	2.37	0.73
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.73
2:U:617:GLU:O	3:V:1446:LYS:CA	2.35	0.73
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.73
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.73
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.73
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.73
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.73
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.73
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.73
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.73
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.73
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.73
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.73
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.73
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.73
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.73
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.73
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.73
1:E:1301:GLU:CA	3:J:172:ARG:O	2.37	0.73
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.73
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.73
1:E:1301:GLU:CA	3:J:172:ARG:O	2.37	0.73
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.73
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.73
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.73
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.73
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.73
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.73
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.73
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.73
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.73
2:O:522:CYS:N	3:P:1662:CYS:C	2.32	0.72
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.72
4:F:400:GLY:C	4:F:401:TYR:C	2.56	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.54	0.72
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.72
3:V:1663:GLN:HA	3:V:1667:ALA:CB	2.18	0.72
4:X:400:GLY:C	4:X:401:TYR:C	2.56	0.72
4:F:402:ALA:HB2	4:F:403:ILE:H	1.52	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
4:F:402:ALA:HB2	4:F:403:ILE:H	1.52	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.54	0.72
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.54	0.72
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.54	0.72
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.54	0.72
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
4:F:260:THR:CB	4:F:260:THR:C	2.61	0.72
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.72
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.72
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.72
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.72
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.72
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.72
2:C:303:ALA:CB	1:Q:848:ASP:N	2.46	0.72
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.72
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:ALA:CB	1:Q:848:ASP:N	2.46	0.72
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.72
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.72
4:R:140:LYS:HA	4:R:149:GLY:H	1.54	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.72
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.72
4:X:446:ALA:O	4:X:449:SER:CB	2.38	0.72
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.72	0.72
2:C:305:LEU:H	1:Q:852:VAL:N	1.81	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.72	0.72
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.72
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.72	0.72
2:C:305:LEU:H	1:Q:852:VAL:N	1.81	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.72	0.72
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.72
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.72
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.72	0.72
2:C:305:LEU:H	1:Q:852:VAL:N	1.81	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.72	0.72
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.72	0.72
2:C:305:LEU:H	1:Q:852:VAL:N	1.81	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.72	0.72
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.72	0.72
1:E:849:ASN:CA	2:O:301:LEU:O	2.38	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.72	0.72
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.72	0.72
1:E:849:ASN:CA	2:O:301:LEU:O	2.38	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.72	0.72
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.72
4:F:402:ALA:HB2	4:F:403:ILE:H	1.53	0.72
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.72
4:X:488:ILE:N	4:X:488:ILE:HA	1.94	0.72
2:C:778:ILE:CA	1:K:138:ASP:C	2.53	0.72
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.72
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:778:ILE:CA	1:K:138:ASP:C	2.53	0.72
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.72
2:C:778:ILE:CA	1:K:138:ASP:C	2.53	0.72
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.72
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
2:C:778:ILE:CA	1:K:138:ASP:C	2.53	0.72
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.72
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
2:C:778:ILE:CA	1:K:138:ASP:C	2.53	0.72
4:L:400:GLY:C	4:L:401:TYR:C	2.56	0.72
4:L:446:ALA:O	4:L:449:SER:CB	2.38	0.72
2:C:778:ILE:CA	1:K:138:ASP:C	2.53	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.72
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.72
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.72
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:F:399:SER:O	4:F:400:GLY:CA	2.36	0.72
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.72
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.72
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.72
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.72
2:I:645:LEU:N	3:J:1450:GLU:CB	2.51	0.72
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.72
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.72
2:I:645:LEU:N	3:J:1450:GLU:CB	2.51	0.72
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.72
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.72
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.72
2:I:645:LEU:N	3:J:1450:GLU:CB	2.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:645:LEU:N	3:J:1450:GLU:CB	2.51	0.72
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.72
2:C:301:LEU:O	1:Q:849:ASN:CA	2.38	0.72
2:I:645:LEU:N	3:J:1450:GLU:CB	2.51	0.72
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.72
2:C:301:LEU:O	1:Q:849:ASN:CA	2.38	0.72
2:I:645:LEU:N	3:J:1450:GLU:CB	2.51	0.72
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.72
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.72
1:K:22:ALA:HB1	1:K:780:ALA:HA	1.71	0.72
2:C:729:GLU:CB	1:K:84:ILE:O	2.38	0.72
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.72
2:C:729:GLU:CB	1:K:84:ILE:O	2.38	0.72
2:C:729:GLU:CB	1:K:84:ILE:O	2.38	0.72
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.72
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.72
2:C:729:GLU:CB	1:K:84:ILE:O	2.38	0.72
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.72
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.72
2:C:729:GLU:CB	1:K:84:ILE:O	2.38	0.72
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.72
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.72
2:C:729:GLU:CB	1:K:84:ILE:O	2.38	0.72
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.72
1:B:22:ALA:HB1	1:B:780:ALA:HA	1.71	0.72
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.53	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.72
4:F:140:LYS:HA	4:F:149:GLY:H	1.53	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.72
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.72
2:O:781:ARG:HA	1:W:92:GLU:C	2.15	0.72
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.72	0.72
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.72
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.72	0.72
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.72	0.72
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.72	0.72
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.72	0.72
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.72
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:399:SER:O	4:X:400:GLY:CA	2.36	0.71
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.71
2:C:304:PRO:N	1:Q:849:ASN:O	2.23	0.71
2:I:738:SER:CB	3:J:1454:ALA:HB2	2.19	0.71
2:C:304:PRO:N	1:Q:849:ASN:O	2.23	0.71
2:I:738:SER:CB	3:J:1454:ALA:HB2	2.19	0.71
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.71
2:C:304:PRO:N	1:Q:849:ASN:O	2.23	0.71
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.71
2:I:738:SER:CB	3:J:1454:ALA:HB2	2.19	0.71
2:C:304:PRO:N	1:Q:849:ASN:O	2.23	0.71
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.72	0.71
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.71
2:I:738:SER:CB	3:J:1454:ALA:HB2	2.19	0.71
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.72	0.71
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.71
2:I:738:SER:CB	3:J:1454:ALA:HB2	2.19	0.71
4:F:446:ALA:O	4:F:449:SER:CB	2.38	0.71
2:I:738:SER:CB	3:J:1454:ALA:HB2	2.19	0.71
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.71
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.72	0.71
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.71
2:O:785:LEU:CB	1:W:134:LEU:N	2.53	0.71
2:U:645:LEU:N	3:V:1450:GLU:CB	2.51	0.71
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.71
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.72	0.71
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.71
2:O:785:LEU:CB	1:W:134:LEU:N	2.53	0.71
2:U:645:LEU:N	3:V:1450:GLU:CB	2.51	0.71
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.72	0.71
2:O:785:LEU:CB	1:W:134:LEU:N	2.53	0.71
2:U:645:LEU:N	3:V:1450:GLU:CB	2.51	0.71
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.71
2:O:785:LEU:CB	1:W:134:LEU:N	2.53	0.71
2:U:645:LEU:N	3:V:1450:GLU:CB	2.51	0.71
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.71
2:O:785:LEU:CB	1:W:134:LEU:N	2.53	0.71
2:U:645:LEU:N	3:V:1450:GLU:CB	2.51	0.71
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.71
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.72	0.71
2:O:785:LEU:CB	1:W:134:LEU:N	2.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:645:LEU:N	3:V:1450:GLU:CB	2.51	0.71
1:E:1302:VAL:O	3:J:876:VAL:CB	2.38	0.71
1:E:1305:GLN:CB	3:J:876:VAL:CB	2.68	0.71
4:L:399:SER:O	4:L:400:GLY:CA	2.36	0.71
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.71
3:D:1663:GLN:HA	3:D:1667:ALA:CB	2.18	0.71
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.71
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.71
2:U:738:SER:CB	3:V:1454:ALA:HB2	2.19	0.71
2:U:738:SER:CB	3:V:1454:ALA:HB2	2.19	0.71
2:U:738:SER:CB	3:V:1454:ALA:HB2	2.19	0.71
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.73	0.71
2:U:738:SER:CB	3:V:1454:ALA:HB2	2.19	0.71
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.73	0.71
2:U:738:SER:CB	3:V:1454:ALA:HB2	2.19	0.71
2:U:738:SER:CB	3:V:1454:ALA:HB2	2.19	0.71
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.71
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.71
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.71
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.73	0.71
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.71
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.73	0.71
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.71
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.71
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.73	0.71
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.71
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.71
4:L:140:LYS:HA	4:L:149:GLY:H	1.54	0.71
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.71
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.73	0.71
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.71	0.71
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.71
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.71
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.71
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.71
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.71
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.71	0.71
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.71
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.71	0.71
4:R:446:ALA:O	4:R:449:SER:CB	2.38	0.71
4:R:399:SER:O	4:R:400:GLY:CA	2.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.71
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.71
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.71
4:F:402:ALA:HB2	4:F:403:ILE:H	1.52	0.71
4:F:402:ALA:HB2	4:F:403:ILE:H	1.52	0.71
1:E:848:ASP:N	2:O:303:ALA:CB	2.46	0.71
4:F:402:ALA:HB2	4:F:403:ILE:H	1.52	0.71
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.71
1:E:848:ASP:N	2:O:303:ALA:CB	2.46	0.71
4:F:402:ALA:HB2	4:F:403:ILE:H	1.52	0.71
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.71
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.71
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.71
1:Q:1306:LEU:C	3:V:733:ASP:H	1.97	0.71
4:R:454:TYR:HA	4:R:455:ILE:CA	2.20	0.71
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.71
1:Q:1239:ASP:O	1:W:572:ALA:CB	2.39	0.71
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.71
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.71
1:Q:1239:ASP:O	1:W:572:ALA:CB	2.39	0.71
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.71
1:Q:1239:ASP:O	1:W:572:ALA:CB	2.39	0.71
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.71
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.71
1:Q:1239:ASP:O	1:W:572:ALA:CB	2.39	0.71
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.71
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.71
4:X:140:LYS:HA	4:X:149:GLY:H	1.54	0.71
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.71
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.71
1:A:22:ALA:HB1	1:A:780:ALA:HA	1.71	0.71
3:P:880:GLU:O	6:T:412:GLU:CB	2.39	0.71
3:P:880:GLU:O	6:T:412:GLU:CB	2.39	0.71
2:C:305:LEU:HA	1:Q:848:ASP:C	2.16	0.70
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.70
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.70
1:E:1233:VAL:H	1:K:579:GLU:CB	2.03	0.70
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.70
1:E:1233:VAL:H	1:K:579:GLU:CB	2.03	0.70
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.70
1:E:1233:VAL:H	1:K:579:GLU:CB	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.70
1:E:1233:VAL:H	1:K:579:GLU:CB	2.03	0.70
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.70
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.70
1:Q:1311:ASP:CB	3:V:248:LEU:N	2.54	0.70
1:Q:1311:ASP:CB	3:V:248:LEU:N	2.54	0.70
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.70
3:J:1663:GLN:HA	3:J:1667:ALA:CB	2.18	0.70
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.70
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.70
1:E:1311:ASP:CB	3:J:248:LEU:N	2.54	0.70
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.70
1:E:1311:ASP:CB	3:J:248:LEU:N	2.54	0.70
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.70
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.70
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.70
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.70
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.70
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.70
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.70
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.70
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.70
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.70
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.70
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.70
1:E:1165:TYR:CB	1:K:727:PHE:O	2.37	0.70
4:R:252:THR:CB	4:R:320:GLU:CB	2.70	0.70
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.70
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.70
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.70
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.70
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.70
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.70
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.70
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.70
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.70
1:Q:22:ALA:HB1	1:Q:780:ALA:HA	1.71	0.70
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.70
5:M:341:ALA:H	5:M:342:PRO:N	1.87	0.70
4:X:455:ILE:CB	4:X:456:ASP:N	2.54	0.70
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:455:ILE:CB	4:L:456:ASP:N	2.54	0.70
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.70
2:O:779:GLU:CA	1:W:137:PHE:CB	2.67	0.70
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.70
2:O:779:GLU:CA	1:W:137:PHE:CB	2.67	0.70
2:O:779:GLU:CA	1:W:137:PHE:CB	2.67	0.70
2:O:779:GLU:CA	1:W:137:PHE:CB	2.67	0.70
1:E:847:ARG:CB	2:O:304:PRO:O	2.40	0.70
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.70
2:O:779:GLU:CA	1:W:137:PHE:CB	2.67	0.70
1:E:847:ARG:CB	2:O:304:PRO:O	2.40	0.70
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.70
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.70
2:O:779:GLU:CA	1:W:137:PHE:CB	2.67	0.70
2:I:622:PHE:N	3:J:1449:TRP:CA	2.38	0.70
6:N:408:SER:CA	6:N:410:LEU:H	2.01	0.70
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.70
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.70
4:F:454:TYR:HA	4:F:455:ILE:CA	2.20	0.70
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.70
4:F:454:TYR:HA	4:F:455:ILE:CA	2.20	0.70
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.70
2:C:304:PRO:O	1:Q:847:ARG:CB	2.40	0.70
4:F:454:TYR:HA	4:F:455:ILE:CA	2.20	0.70
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.70
2:C:304:PRO:O	1:Q:847:ARG:CB	2.40	0.70
4:F:454:TYR:HA	4:F:455:ILE:CA	2.20	0.70
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.70
6:H:408:SER:CA	6:H:410:LEU:H	2.01	0.70
2:C:785:LEU:HA	1:K:132:GLY:CA	2.20	0.70
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.72	0.70
3:P:888:PRO:CB	6:T:408:SER:C	2.57	0.70
2:C:785:LEU:HA	1:K:132:GLY:CA	2.20	0.70
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.72	0.70
3:P:888:PRO:CB	6:T:408:SER:C	2.57	0.70
2:C:785:LEU:HA	1:K:132:GLY:CA	2.20	0.70
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.72	0.70
2:C:785:LEU:HA	1:K:132:GLY:CA	2.20	0.70
1:E:22:ALA:HB1	1:E:780:ALA:HA	1.72	0.70
2:C:785:LEU:HA	1:K:132:GLY:CA	2.20	0.70
2:C:785:LEU:HA	1:K:132:GLY:CA	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:455:ILE:CB	4:F:456:ASP:N	2.54	0.70
2:I:618:ASN:O	3:J:1446:LYS:N	2.25	0.70
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.70
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.70
2:C:679:ILE:O	1:K:851:ALA:O	2.08	0.70
2:I:620:GLY:H	3:J:1446:LYS:CA	2.00	0.70
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.70
6:T:408:SER:CA	6:T:410:LEU:H	2.01	0.70
1:W:22:ALA:HB1	1:W:780:ALA:HA	1.71	0.70
3:D:1510:GLN:CB	3:P:1468:ALA:HB3	2.22	0.70
3:D:1510:GLN:CB	3:P:1468:ALA:HB3	2.22	0.70
3:D:1510:GLN:CB	3:P:1468:ALA:HB3	2.22	0.70
3:D:1510:GLN:CB	3:P:1468:ALA:HB3	2.22	0.70
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.70
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.70
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.70
4:R:455:ILE:CB	4:R:456:ASP:N	2.54	0.70
4:L:158:ASN:HA	4:L:321:LYS:O	1.92	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
3:P:1663:GLN:HA	3:P:1667:ALA:CB	2.18	0.69
4:R:402:ALA:HB2	4:R:403:ILE:H	1.52	0.69
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.69
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.69
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.69
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.69
4:F:451:GLU:CB	4:F:451:GLU:N	2.55	0.69
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.69
4:R:454:TYR:HA	4:R:455:ILE:CA	2.20	0.69
4:F:451:GLU:CB	4:F:451:GLU:N	2.55	0.69
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.69
4:R:454:TYR:HA	4:R:455:ILE:CA	2.20	0.69
4:F:451:GLU:CB	4:F:451:GLU:N	2.55	0.69
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.69
4:R:454:TYR:HA	4:R:455:ILE:CA	2.20	0.69
4:F:451:GLU:CB	4:F:451:GLU:N	2.55	0.69
4:R:454:TYR:HA	4:R:455:ILE:CA	2.20	0.69
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.69
4:F:454:TYR:HA	4:F:455:ILE:CA	2.20	0.69
4:F:454:TYR:HA	4:F:455:ILE:CA	2.20	0.69
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.69
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.72	0.69
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.69
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.69
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.72	0.69
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.72	0.69
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.72	0.69
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.72	0.69
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.72	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.69
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.69
2:C:173:PRO:N	3:D:1686:PRO:CA	2.55	0.69
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.69
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.69
2:C:173:PRO:N	3:D:1686:PRO:CA	2.55	0.69
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.69
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.69
2:C:173:PRO:N	3:D:1686:PRO:CA	2.55	0.69
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.69
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.69
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.69
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.69
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.69
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.69
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.69
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.69
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.69
2:C:173:PRO:N	3:D:1686:PRO:CA	2.55	0.69
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.69
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.69
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.69
1:K:942:PRO:HA	1:K:943:GLN:CB	2.17	0.69
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.69
2:O:722:LEU:HA	1:W:130:ASP:C	2.14	0.69
2:O:722:LEU:HA	1:W:130:ASP:C	2.14	0.69
2:O:722:LEU:HA	1:W:130:ASP:C	2.14	0.69
2:O:722:LEU:HA	1:W:130:ASP:C	2.14	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1301:GLU:HA	3:J:172:ARG:O	1.92	0.69
2:O:722:LEU:HA	1:W:130:ASP:C	2.14	0.69
1:E:1301:GLU:HA	3:J:172:ARG:O	1.92	0.69
2:O:722:LEU:HA	1:W:130:ASP:C	2.14	0.69
2:C:530:ARG:O	3:D:1664:ASP:CB	2.40	0.69
4:F:454:TYR:HA	4:F:455:ILE:CA	2.21	0.69
1:Q:1312:PRO:C	3:V:722:ASN:N	2.51	0.69
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.72	0.69
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.72	0.69
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.69
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.69
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.72	0.69
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.69
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.69
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.69
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.69
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.72	0.69
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.69
2:O:522:CYS:N	3:P:1662:CYS:C	2.50	0.69
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.69
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.69
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.69
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.72	0.69
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.69
2:O:522:CYS:N	3:P:1662:CYS:C	2.50	0.69
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.69
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.69
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.69
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.72	0.69
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.69
6:N:381:LYS:N	6:N:381:LYS:CB	2.55	0.69
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.69
6:T:381:LYS:N	6:T:381:LYS:CB	2.55	0.69
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.69
2:I:620:GLY:C	3:J:1449:TRP:CB	2.66	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.69
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.69
4:R:158:ASN:HA	4:R:321:LYS:O	1.93	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.55	0.69
2:C:174:GLY:CA	3:D:1682:LYS:CA	2.69	0.69
4:F:158:ASN:HA	4:F:321:LYS:O	1.93	0.69
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.69
2:C:174:GLY:CA	3:D:1682:LYS:CA	2.69	0.69
4:F:158:ASN:HA	4:F:321:LYS:O	1.93	0.69
4:L:158:ASN:HA	4:L:321:LYS:O	1.93	0.69
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.69
2:C:174:GLY:CA	3:D:1682:LYS:CA	2.69	0.69
4:R:158:ASN:HA	4:R:321:LYS:O	1.92	0.69
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.69
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.69
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.69
4:R:158:ASN:HA	4:R:321:LYS:O	1.92	0.69
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.69
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.69
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.69
4:R:158:ASN:HA	4:R:321:LYS:O	1.92	0.69
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.69
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.69
2:C:174:GLY:CA	3:D:1682:LYS:CA	2.69	0.69
4:L:158:ASN:HA	4:L:321:LYS:O	1.93	0.69
4:R:158:ASN:HA	4:R:321:LYS:O	1.92	0.69
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.69
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.69
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.69
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.69
6:Z:408:SER:CA	6:Z:410:LEU:H	2.01	0.69
2:I:639:LEU:O	3:J:1452:LEU:CA	2.41	0.69
2:I:639:LEU:O	3:J:1452:LEU:CA	2.41	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
2:I:639:LEU:O	3:J:1452:LEU:CA	2.41	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
2:I:639:LEU:O	3:J:1452:LEU:CA	2.41	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
2:I:639:LEU:O	3:J:1452:LEU:CA	2.41	0.69
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
2:I:639:LEU:O	3:J:1452:LEU:CA	2.41	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:H:381:LYS:N	6:H:381:LYS:CB	2.55	0.69
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.69
5:S:341:ALA:H	5:S:342:PRO:N	1.87	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.56	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.55	0.69
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.56	0.69
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.56	0.69
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.69
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.56	0.69
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.69
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.69
4:X:451:GLU:CB	4:X:451:GLU:N	2.55	0.69
1:A:441:PHE:HA	1:A:444:PRO:O	1.93	0.68
1:E:845:TYR:CB	2:O:299:ILE:HA	2.21	0.68
2:C:677:GLN:CA	1:K:796:LYS:C	2.55	0.68
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.68
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.68
2:O:785:LEU:N	1:W:131:GLY:O	2.25	0.68
3:P:888:PRO:CB	6:T:409:PRO:CA	2.70	0.68
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.68
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.68
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.68
2:C:677:GLN:CA	1:K:796:LYS:C	2.55	0.68
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.68
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.68
2:O:785:LEU:N	1:W:131:GLY:O	2.25	0.68
3:P:888:PRO:CB	6:T:409:PRO:CA	2.70	0.68
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.68
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.68
2:C:677:GLN:CA	1:K:796:LYS:C	2.55	0.68
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.68
2:O:785:LEU:N	1:W:131:GLY:O	2.25	0.68
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.68
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.68
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.68
2:C:677:GLN:CA	1:K:796:LYS:C	2.55	0.68
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.68
2:O:785:LEU:N	1:W:131:GLY:O	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.68
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.68
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.68
2:C:677:GLN:CA	1:K:796:LYS:C	2.55	0.68
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.68
2:O:785:LEU:N	1:W:131:GLY:O	2.25	0.68
1:Q:1301:GLU:HA	3:V:172:ARG:O	1.93	0.68
4:X:399:SER:C	4:X:401:TYR:N	2.37	0.68
6:Z:381:LYS:N	6:Z:381:LYS:CB	2.55	0.68
2:C:677:GLN:CA	1:K:796:LYS:C	2.55	0.68
1:K:441:PHE:HA	1:K:444:PRO:O	1.93	0.68
2:O:785:LEU:N	1:W:131:GLY:O	2.25	0.68
1:Q:1301:GLU:HA	3:V:172:ARG:O	1.93	0.68
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.68
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.68
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
2:C:785:LEU:CB	1:K:134:LEU:N	2.56	0.68
3:P:888:PRO:N	6:T:408:SER:O	2.26	0.68
4:R:158:ASN:HA	4:R:321:LYS:O	1.92	0.68
2:C:785:LEU:CB	1:K:134:LEU:N	2.56	0.68
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.68
3:P:888:PRO:N	6:T:408:SER:O	2.26	0.68
4:R:158:ASN:HA	4:R:321:LYS:O	1.92	0.68
2:C:785:LEU:CB	1:K:134:LEU:N	2.56	0.68
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.68
2:C:785:LEU:CB	1:K:134:LEU:N	2.56	0.68
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.68
2:C:785:LEU:CB	1:K:134:LEU:N	2.56	0.68
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.68
2:C:785:LEU:CB	1:K:134:LEU:N	2.56	0.68
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.68
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
2:I:622:PHE:N	3:J:1449:TRP:HA	1.75	0.68
2:C:779:GLU:CA	1:K:137:PHE:CB	2.68	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
1:E:1233:VAL:CB	1:K:579:GLU:CA	2.71	0.68
2:O:173:PRO:N	3:P:1686:PRO:CA	2.55	0.68
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.68
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:779:GLU:CA	1:K:137:PHE:CB	2.68	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
1:E:1233:VAL:CB	1:K:579:GLU:CA	2.71	0.68
2:O:173:PRO:N	3:P:1686:PRO:CA	2.55	0.68
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.68
2:C:779:GLU:CA	1:K:137:PHE:CB	2.68	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
1:E:1233:VAL:CB	1:K:579:GLU:CA	2.71	0.68
4:F:158:ASN:HA	4:F:321:LYS:O	1.92	0.68
2:O:173:PRO:N	3:P:1686:PRO:CA	2.55	0.68
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.68
2:C:173:PRO:N	3:D:1685:LEU:C	2.41	0.68
2:C:779:GLU:CA	1:K:137:PHE:CB	2.68	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
1:E:1233:VAL:CB	1:K:579:GLU:CA	2.71	0.68
4:F:158:ASN:HA	4:F:321:LYS:O	1.92	0.68
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.68
2:C:173:PRO:N	3:D:1685:LEU:C	2.41	0.68
2:C:779:GLU:CA	1:K:137:PHE:CB	2.68	0.68
4:F:158:ASN:HA	4:F:321:LYS:O	1.92	0.68
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.68
2:C:779:GLU:CA	1:K:137:PHE:CB	2.68	0.68
4:F:158:ASN:HA	4:F:321:LYS:O	1.92	0.68
2:O:173:PRO:N	3:P:1686:PRO:CA	2.55	0.68
1:E:1165:TYR:C	1:K:727:PHE:HA	2.12	0.68
4:L:451:GLU:N	4:L:451:GLU:CB	2.55	0.68
2:O:174:GLY:CA	3:P:1682:LYS:CA	2.69	0.68
4:R:454:TYR:HA	4:R:455:ILE:CA	2.21	0.68
2:U:639:LEU:O	3:V:1452:LEU:CA	2.41	0.68
4:L:451:GLU:CB	4:L:451:GLU:N	2.55	0.68
2:O:174:GLY:CA	3:P:1682:LYS:CA	2.69	0.68
4:R:454:TYR:HA	4:R:455:ILE:CA	2.21	0.68
2:U:639:LEU:O	3:V:1452:LEU:CA	2.41	0.68
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.68
2:O:174:GLY:CA	3:P:1682:LYS:CA	2.69	0.68
2:U:639:LEU:O	3:V:1452:LEU:CA	2.41	0.68
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.68
2:U:639:LEU:O	3:V:1452:LEU:CA	2.41	0.68
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.68
2:U:639:LEU:O	3:V:1452:LEU:CA	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:441:PHE:HA	1:E:444:PRO:O	1.93	0.68
4:F:299:ASN:C	4:F:299:ASN:CB	2.64	0.68
4:L:451:GLU:CB	4:L:451:GLU:N	2.55	0.68
2:O:174:GLY:CA	3:P:1682:LYS:CA	2.69	0.68
2:U:639:LEU:O	3:V:1452:LEU:CA	2.41	0.68
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.68
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.68
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.68
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.68
4:L:472:GLU:N	4:L:472:GLU:C	2.51	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
4:X:472:GLU:N	4:X:472:GLU:C	2.51	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
4:R:472:GLU:N	4:R:472:GLU:C	2.51	0.68
1:W:441:PHE:HA	1:W:444:PRO:O	1.93	0.68
4:F:158:ASN:HA	4:F:321:LYS:O	1.92	0.68
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.68
4:L:451:GLU:CB	4:L:451:GLU:N	2.55	0.68
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.68
4:L:451:GLU:CB	4:L:451:GLU:N	2.55	0.68
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.68
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.68
4:L:451:GLU:CB	4:L:451:GLU:N	2.55	0.68
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.68
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.68
4:L:451:GLU:CB	4:L:451:GLU:N	2.55	0.68
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.68
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.68
4:F:451:GLU:CB	4:F:451:GLU:N	2.55	0.68
4:F:455:ILE:C	4:F:456:ASP:C	2.56	0.68
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.68
4:L:367:THR:C	4:L:367:THR:N	2.52	0.68
2:O:784:GLN:CB	1:W:131:GLY:C	2.67	0.68
4:L:158:ASN:HA	4:L:321:LYS:O	1.92	0.68
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.68
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.68
4:L:158:ASN:HA	4:L:321:LYS:O	1.92	0.68
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.68
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.68
4:L:158:ASN:HA	4:L:321:LYS:O	1.92	0.68
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.68
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.68
4:L:158:ASN:HA	4:L:321:LYS:O	1.92	0.68
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.68
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
4:F:472:GLU:N	4:F:472:GLU:C	2.51	0.68
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.68
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.68
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.68
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.68
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.68
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.68
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.68
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.68
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.68
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.68
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.68
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.68
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.68
4:F:448:ARG:O	4:F:449:SER:C	2.32	0.68
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.68
4:L:299:ASN:C	4:L:299:ASN:CB	2.64	0.68
5:G:341:ALA:H	5:G:342:PRO:N	1.87	0.68
1:Q:1306:LEU:C	3:V:733:ASP:N	2.52	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
2:C:299:ILE:C	1:Q:845:TYR:CB	2.67	0.68
4:R:367:THR:C	4:R:367:THR:N	2.52	0.68
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
2:C:299:ILE:C	1:Q:845:TYR:CB	2.67	0.68
4:R:367:THR:C	4:R:367:THR:N	2.52	0.68
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
2:C:299:ILE:C	1:Q:845:TYR:CB	2.67	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
2:C:299:ILE:C	1:Q:845:TYR:CB	2.67	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
1:B:441:PHE:HA	1:B:444:PRO:O	1.93	0.68
2:C:785:LEU:CA	1:K:132:GLY:C	2.35	0.68
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.68
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
2:C:785:LEU:CA	1:K:132:GLY:C	2.35	0.68
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.68
4:R:140:LYS:HA	4:R:149:GLY:N	2.08	0.68
2:C:785:LEU:CA	1:K:132:GLY:C	2.35	0.68
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.68
2:C:785:LEU:CA	1:K:132:GLY:C	2.35	0.68
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.68
2:C:785:LEU:CA	1:K:132:GLY:C	2.35	0.68
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.68
2:C:785:LEU:CA	1:K:132:GLY:C	2.35	0.68
2:C:676:ALA:CA	1:K:846:ILE:O	2.41	0.67
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.67
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.67
2:C:722:LEU:HA	1:K:130:ASP:C	2.18	0.67
1:E:1239:ASP:O	1:K:572:ALA:HB2	1.94	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.67
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.67
4:X:367:THR:C	4:X:367:THR:N	2.52	0.67
2:C:722:LEU:HA	1:K:130:ASP:C	2.18	0.67
1:E:1239:ASP:O	1:K:572:ALA:HB2	1.94	0.67
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.67
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
2:C:722:LEU:HA	1:K:130:ASP:C	2.18	0.67
1:E:1239:ASP:O	1:K:572:ALA:HB2	1.94	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
4:X:367:THR:C	4:X:367:THR:N	2.52	0.67
2:C:722:LEU:HA	1:K:130:ASP:C	2.18	0.67
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.67
1:E:1239:ASP:O	1:K:572:ALA:HB2	1.94	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
4:X:367:THR:C	4:X:367:THR:N	2.52	0.67
2:C:722:LEU:HA	1:K:130:ASP:C	2.18	0.67
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
4:X:367:THR:C	4:X:367:THR:N	2.52	0.67
2:C:722:LEU:HA	1:K:130:ASP:C	2.18	0.67
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
1:Q:441:PHE:HA	1:Q:444:PRO:O	1.93	0.67
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.67
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.67
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.67
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.67
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
4:F:140:LYS:HA	4:F:149:GLY:N	2.08	0.67
4:F:449:SER:O	4:F:451:GLU:C	2.37	0.67
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.67
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.67
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.67
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.67
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
4:L:140:LYS:HA	4:L:149:GLY:N	2.08	0.67
4:X:140:LYS:HA	4:X:149:GLY:N	2.08	0.67
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.67
2:C:535:TYR:N	3:D:1664:ASP:H	1.93	0.67
4:R:299:ASN:C	4:R:299:ASN:CB	2.64	0.67
1:A:441:PHE:HA	1:A:444:PRO:O	1.94	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
1:A:441:PHE:HA	1:A:444:PRO:O	1.94	0.67
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.67
1:A:441:PHE:HA	1:A:444:PRO:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
1:A:441:PHE:HA	1:A:444:PRO:O	1.94	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
1:A:441:PHE:HA	1:A:444:PRO:O	1.94	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67
1:A:441:PHE:HA	1:A:444:PRO:O	1.94	0.67
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.67
1:E:1353:CYS:O	3:J:864:MET:O	2.13	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
1:Q:1356:ALA:H	3:V:872:LEU:CB	2.05	0.67
2:C:780:ASP:HA	1:K:136:TYR:CA	2.24	0.67
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.67
2:C:780:ASP:HA	1:K:136:TYR:CA	2.24	0.67
2:C:780:ASP:HA	1:K:136:TYR:CA	2.24	0.67
4:R:367:THR:C	4:R:367:THR:N	2.52	0.67
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.67
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.67
2:C:780:ASP:HA	1:K:136:TYR:CA	2.24	0.67
4:R:367:THR:C	4:R:367:THR:N	2.52	0.67
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.67
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.67
2:C:780:ASP:HA	1:K:136:TYR:CA	2.24	0.67
4:R:367:THR:C	4:R:367:THR:N	2.52	0.67
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.67
4:X:299:ASN:C	4:X:299:ASN:CB	2.64	0.67
2:C:780:ASP:HA	1:K:136:TYR:CA	2.24	0.67
4:R:367:THR:C	4:R:367:THR:N	2.52	0.67
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.67
4:L:260:THR:CB	4:L:260:THR:N	2.57	0.67
4:X:449:SER:O	4:X:451:GLU:C	2.37	0.67
4:F:451:GLU:CB	4:F:451:GLU:N	2.56	0.67
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.67
4:F:451:GLU:CB	4:F:451:GLU:N	2.56	0.67
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.67
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.67
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.67
4:X:158:ASN:HA	4:X:321:LYS:O	1.93	0.67
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.67
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.67
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.67
5:Y:378:SER:C	5:Y:378:SER:CB	2.67	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
1:Q:1305:GLN:CB	3:V:172:ARG:CB	2.72	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.67
1:Q:1305:GLN:CB	3:V:172:ARG:CB	2.72	0.67
1:Q:1305:GLN:CB	3:V:172:ARG:CB	2.72	0.67
1:Q:1305:GLN:CB	3:V:172:ARG:CB	2.72	0.67
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.67
4:L:449:SER:O	4:L:451:GLU:C	2.37	0.67
1:Q:1364:LEU:C	3:V:880:GLU:H	2.03	0.67
2:C:724:GLN:CB	1:K:508:SER:H	2.08	0.67
2:O:778:ILE:CA	1:W:138:ASP:O	2.40	0.67
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.67
2:C:724:GLN:CB	1:K:508:SER:H	2.08	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
2:O:778:ILE:CA	1:W:138:ASP:O	2.40	0.67
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.67
2:C:724:GLN:CB	1:K:508:SER:H	2.08	0.67
2:O:778:ILE:CA	1:W:138:ASP:O	2.40	0.67
2:C:724:GLN:CB	1:K:508:SER:H	2.08	0.67
2:O:778:ILE:CA	1:W:138:ASP:O	2.40	0.67
2:C:724:GLN:CB	1:K:508:SER:H	2.08	0.67
2:O:778:ILE:CA	1:W:138:ASP:O	2.40	0.67
2:C:724:GLN:CB	1:K:508:SER:H	2.08	0.67
4:L:422:ASN:CB	4:L:423:ALA:HB2	2.24	0.67
2:O:778:ILE:CA	1:W:138:ASP:O	2.40	0.67
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.25	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
4:R:449:SER:O	4:R:451:GLU:C	2.37	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
4:F:422:ASN:CB	4:F:423:ALA:HB2	2.24	0.67
4:F:367:THR:C	4:F:367:THR:N	2.52	0.67
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.25	0.67
4:X:260:THR:CB	4:X:260:THR:N	2.57	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.67
4:L:367:THR:C	4:L:367:THR:N	2.52	0.67
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.67
4:X:367:THR:C	4:X:367:THR:N	2.52	0.67
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.67
4:L:367:THR:C	4:L:367:THR:N	2.52	0.67
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.67
4:L:367:THR:C	4:L:367:THR:N	2.52	0.67
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.67
4:L:367:THR:C	4:L:367:THR:N	2.52	0.67
4:L:454:TYR:HA	4:L:455:ILE:CA	2.20	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.67
4:X:367:THR:C	4:X:367:THR:N	2.52	0.67
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.67
1:B:50:SER:C	1:B:58:SER:HA	2.20	0.67
1:E:1352:LEU:CB	3:J:869:GLU:CB	2.73	0.67
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.67
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.67
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.67
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.67
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.67
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.67
1:E:849:ASN:O	2:O:304:PRO:CB	2.43	0.67
4:L:448:ARG:O	4:L:449:SER:C	2.32	0.67
1:E:849:ASN:O	2:O:304:PRO:CB	2.43	0.67
1:A:50:SER:C	1:A:58:SER:HA	2.20	0.66
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.25	0.66
4:R:422:ASN:CB	4:R:423:ALA:HB2	2.24	0.66
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.66
4:R:455:ILE:C	4:R:456:ASP:C	2.56	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.66
2:C:779:GLU:CB	1:K:137:PHE:CA	2.70	0.66
3:D:869:GLU:HA	3:D:872:LEU:C	2.21	0.66
1:E:849:ASN:O	2:O:304:PRO:N	2.28	0.66
1:Q:1239:ASP:CB	1:W:572:ALA:C	2.68	0.66
2:C:779:GLU:CB	1:K:137:PHE:CA	2.70	0.66
3:D:869:GLU:HA	3:D:872:LEU:C	2.21	0.66
1:E:849:ASN:O	2:O:304:PRO:N	2.28	0.66
1:Q:1239:ASP:CB	1:W:572:ALA:C	2.68	0.66
2:C:779:GLU:CB	1:K:137:PHE:CA	2.70	0.66
3:D:869:GLU:HA	3:D:872:LEU:C	2.21	0.66
1:E:849:ASN:O	2:O:304:PRO:N	2.28	0.66
1:Q:1239:ASP:CB	1:W:572:ALA:C	2.68	0.66
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.66
2:C:779:GLU:CB	1:K:137:PHE:CA	2.70	0.66
1:E:849:ASN:O	2:O:304:PRO:N	2.28	0.66
1:Q:1239:ASP:CB	1:W:572:ALA:C	2.68	0.66
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.66
2:C:304:PRO:CB	1:Q:849:ASN:O	2.43	0.66
2:C:779:GLU:CB	1:K:137:PHE:CA	2.70	0.66
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.66
2:C:304:PRO:CB	1:Q:849:ASN:O	2.43	0.66
2:C:779:GLU:CB	1:K:137:PHE:CA	2.70	0.66
3:D:869:GLU:HA	3:D:872:LEU:C	2.21	0.66
5:S:378:SER:C	5:S:378:SER:CB	2.67	0.66
4:F:399:SER:C	4:F:401:TYR:N	2.37	0.66
2:I:622:PHE:CA	3:J:1449:TRP:CB	2.70	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
4:R:260:THR:CB	4:R:260:THR:N	2.57	0.66
4:R:367:THR:C	4:R:367:THR:N	2.52	0.66
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.66
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.66
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.66
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.66
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.66
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.66
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
4:X:402:ALA:HB2	4:X:403:ILE:H	1.52	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
1:Q:1306:LEU:CA	3:V:734:PRO:N	2.40	0.66
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.66
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.66
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
2:C:535:TYR:HA	3:D:1663:GLN:HA	1.74	0.66
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.66
4:X:422:ASN:CB	4:X:423:ALA:HB2	2.24	0.66
2:C:778:ILE:CA	1:K:138:ASP:O	2.43	0.66
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
2:C:778:ILE:CA	1:K:138:ASP:O	2.43	0.66
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.66
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66
2:C:778:ILE:CA	1:K:138:ASP:O	2.43	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
2:C:778:ILE:CA	1:K:138:ASP:O	2.43	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
2:C:778:ILE:CA	1:K:138:ASP:O	2.43	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
2:C:778:ILE:CA	1:K:138:ASP:O	2.43	0.66
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:852:VAL:N	2:O:305:LEU:O	2.27	0.66
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.66
1:Q:1312:PRO:CB	3:V:722:ASN:C	2.62	0.66
1:Q:1365:GLN:HA	3:V:879:LEU:C	2.21	0.66
5:Y:341:ALA:H	5:Y:342:PRO:N	1.87	0.66
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.66
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.66
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.66
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.66
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.66
5:M:378:SER:C	5:M:378:SER:CB	2.67	0.66
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.66
4:X:448:ARG:O	4:X:449:SER:C	2.32	0.66
4:F:260:THR:CB	4:F:260:THR:N	2.57	0.66
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.66
1:W:50:SER:C	1:W:58:SER:HA	2.20	0.66
4:X:367:THR:C	4:X:367:THR:N	2.52	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.66
3:V:644:ALA:HA	3:V:706:ALA:CB	2.26	0.66
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.66
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
4:R:399:SER:C	4:R:401:TYR:N	2.37	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.66
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.66
1:Q:50:SER:C	1:Q:58:SER:HA	2.20	0.66
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.66
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.66
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.66
4:X:454:TYR:HA	4:X:455:ILE:CA	2.20	0.66
4:R:451:GLU:CB	4:R:451:GLU:N	2.55	0.66
2:C:675:ARG:CA	1:K:849:ASN:CB	2.73	0.66
1:E:50:SER:C	1:E:58:SER:HA	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:487:ASP:C	4:X:487:ASP:CB	2.69	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
1:K:50:SER:C	1:K:58:SER:HA	2.20	0.66
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.66
4:R:448:ARG:O	4:R:449:SER:C	2.32	0.66
3:J:644:ALA:HA	3:J:706:ALA:CB	2.26	0.65
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.25	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
3:D:1468:ALA:HB3	3:P:1510:GLN:CB	2.26	0.65
3:P:869:GLU:HA	3:P:872:LEU:C	2.21	0.65
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.65
3:D:1468:ALA:HB3	3:P:1510:GLN:CB	2.26	0.65
4:L:367:THR:C	4:L:367:THR:N	2.52	0.65
3:P:869:GLU:HA	3:P:872:LEU:C	2.21	0.65
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.65
3:D:1468:ALA:HB3	3:P:1510:GLN:CB	2.26	0.65
3:P:869:GLU:HA	3:P:872:LEU:C	2.21	0.65
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.65
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.65
3:D:1468:ALA:HB3	3:P:1510:GLN:CB	2.26	0.65
4:L:367:THR:C	4:L:367:THR:N	2.52	0.65
3:P:869:GLU:HA	3:P:872:LEU:C	2.21	0.65
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.65
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.65
3:D:869:GLU:HA	3:D:872:LEU:C	2.21	0.65
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.65
3:P:869:GLU:HA	3:P:872:LEU:C	2.21	0.65
3:D:869:GLU:HA	3:D:872:LEU:C	2.21	0.65
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.65
3:P:869:GLU:HA	3:P:872:LEU:C	2.21	0.65
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.65
3:D:644:ALA:HA	3:D:706:ALA:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
2:U:215:LEU:C	2:U:217:ASP:H	2.04	0.65
4:L:487:ASP:C	4:L:487:ASP:CB	2.69	0.65
2:O:655:ALA:CB	3:P:1447:THR:O	2.45	0.65
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.65
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.65
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.65
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.65
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.54	0.65
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.65
2:U:740:GLU:HA	3:V:1454:ALA:CB	2.21	0.65
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.65
3:D:1468:ALA:HB3	3:P:1511:GLN:HA	1.75	0.65
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.65
3:D:1468:ALA:HB3	3:P:1511:GLN:HA	1.75	0.65
3:D:1468:ALA:HB3	3:P:1511:GLN:HA	1.75	0.65
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.65
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.65
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.65
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.65
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.65
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.65
3:D:1468:ALA:HB3	3:P:1511:GLN:HA	1.75	0.65
4:F:487:ASP:C	4:F:487:ASP:CB	2.69	0.65
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
4:L:402:ALA:HB2	4:L:403:ILE:H	1.52	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.65
3:J:1485:ALA:O	3:J:1486:CYS:C	2.34	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1309:SER:CB	3:V:733:ASP:C	2.68	0.65
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.65
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.27	0.65
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.65
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.65
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.27	0.65
5:G:378:SER:C	5:G:378:SER:CB	2.67	0.65
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.27	0.65
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.65
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.27	0.65
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.27	0.65
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.65
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.65
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.27	0.65
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.65
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.27	0.65
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.65
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.65
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.27	0.65
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.65
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.65
3:J:644:ALA:CA	3:J:706:ALA:HB2	2.27	0.65
3:P:644:ALA:HA	3:P:706:ALA:CB	2.26	0.65
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.27	0.65
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.65
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.65
2:C:726:SER:N	1:K:86:ARG:N	2.42	0.65
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.27	0.65
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.65
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.65
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
2:C:726:SER:N	1:K:86:ARG:N	2.42	0.65
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.27	0.65
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.65
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.65
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.65
5:S:342:PRO:C	5:S:344:ASP:N	2.55	0.65
2:C:726:SER:N	1:K:86:ARG:N	2.42	0.65
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.27	0.65
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.65
2:C:726:SER:N	1:K:86:ARG:N	2.42	0.65
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.65
2:C:726:SER:N	1:K:86:ARG:N	2.42	0.65
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.65
2:C:726:SER:N	1:K:86:ARG:N	2.42	0.65
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.27	0.65
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.65
4:R:487:ASP:C	4:R:487:ASP:CB	2.69	0.65
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.65
2:C:483:GLU:CB	3:D:1658:ALA:HB2	2.27	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.55	0.65
1:E:1305:GLN:CB	3:J:172:ARG:HA	2.27	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.55	0.65
3:J:869:GLU:HA	3:J:872:LEU:C	2.21	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.54	0.65
3:V:869:GLU:HA	3:V:872:LEU:C	2.21	0.65
1:E:1305:GLN:CB	3:J:172:ARG:HA	2.27	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.55	0.65
3:J:869:GLU:HA	3:J:872:LEU:C	2.21	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.55	0.65
3:V:869:GLU:HA	3:V:872:LEU:C	2.21	0.65
1:E:1305:GLN:CB	3:J:172:ARG:HA	2.27	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.55	0.65
3:J:869:GLU:HA	3:J:872:LEU:C	2.21	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.54	0.65
3:V:869:GLU:HA	3:V:872:LEU:C	2.21	0.65
1:E:1305:GLN:CB	3:J:172:ARG:HA	2.27	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.55	0.65
3:J:869:GLU:HA	3:J:872:LEU:C	2.21	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.54	0.65
3:V:869:GLU:HA	3:V:872:LEU:C	2.21	0.65
5:G:342:PRO:C	5:G:344:ASP:N	2.55	0.65
3:J:869:GLU:HA	3:J:872:LEU:C	2.21	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.54	0.65
3:V:869:GLU:HA	3:V:872:LEU:C	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:342:PRO:C	5:G:344:ASP:N	2.55	0.65
3:J:869:GLU:HA	3:J:872:LEU:C	2.21	0.65
5:M:342:PRO:C	5:M:344:ASP:N	2.55	0.65
3:V:869:GLU:HA	3:V:872:LEU:C	2.21	0.65
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.10	0.65
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.10	0.65
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.65
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.10	0.65
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.10	0.65
2:C:303:ALA:CB	1:Q:848:ASP:H	2.09	0.65
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.10	0.65
2:C:303:ALA:CB	1:Q:848:ASP:H	2.09	0.65
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.10	0.65
5:M:276:SER:C	5:M:276:SER:CB	2.68	0.65
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.64
3:D:1449:TRP:CB	3:P:1449:TRP:CB	0.67	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
3:D:1449:TRP:CB	3:P:1449:TRP:CB	0.67	0.64
6:N:408:SER:C	6:N:409:PRO:C	2.64	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
3:D:1449:TRP:CB	3:P:1449:TRP:CB	0.67	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
3:D:1449:TRP:CB	3:P:1449:TRP:CB	0.67	0.64
6:N:408:SER:C	6:N:409:PRO:C	2.64	0.64
3:V:644:ALA:CA	3:V:706:ALA:HB2	2.27	0.64
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.10	0.64
2:I:621:LEU:O	3:J:1449:TRP:CB	2.43	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.64
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.64
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.64
3:P:888:PRO:CA	6:T:409:PRO:N	2.58	0.64
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.64
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.64
3:P:888:PRO:CA	6:T:409:PRO:N	2.58	0.64
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.64
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.64
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.64
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.64
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.64
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.64
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.64
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.64
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.64
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.64
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.64
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.64
5:Y:342:PRO:C	5:Y:344:ASP:N	2.55	0.64
2:I:215:LEU:C	2:I:217:ASP:H	2.04	0.64
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.64
4:R:453:TYR:O	4:R:454:TYR:C	2.40	0.64
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.64
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.64
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.64
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.64
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.64
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.64
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.64
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.64
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.64
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.64
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.64
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.64
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.64
2:O:709:ARG:C	1:W:195:SER:O	2.40	0.64
2:O:709:ARG:C	1:W:195:SER:O	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
2:O:709:ARG:C	1:W:195:SER:O	2.40	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
2:O:709:ARG:C	1:W:195:SER:O	2.40	0.64
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.27	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
2:O:709:ARG:C	1:W:195:SER:O	2.40	0.64
3:P:644:ALA:CA	3:P:706:ALA:HB2	2.27	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
2:O:709:ARG:C	1:W:195:SER:O	2.40	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.64
4:F:328:VAL:CA	4:F:328:VAL:O	2.40	0.64
1:Q:1262:PHE:O	3:V:689:VAL:HA	1.98	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.64
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.64
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.64
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.64
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.64
5:M:327:ARG:CB	5:M:327:ARG:C	2.71	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.64
2:C:523:LEU:H	3:D:1662:CYS:HA	1.62	0.64
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.64
2:C:523:LEU:H	3:D:1662:CYS:HA	1.62	0.64
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.64
4:R:328:VAL:CA	4:R:328:VAL:O	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:942:PRO:HA	1:E:943:GLN:CB	2.17	0.64
2:O:215:LEU:C	2:O:217:ASP:H	2.04	0.64
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.11	0.64
1:Q:1365:GLN:CA	3:V:880:GLU:N	2.60	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.64
2:I:645:LEU:N	3:J:1450:GLU:CA	2.50	0.64
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
4:F:453:TYR:O	4:F:454:TYR:C	2.40	0.64
2:I:645:LEU:N	3:J:1450:GLU:CA	2.50	0.64
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
2:I:645:LEU:N	3:J:1450:GLU:CA	2.50	0.64
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.27	0.64
2:I:645:LEU:N	3:J:1450:GLU:CA	2.50	0.64
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.64
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.11	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
3:D:644:ALA:CA	3:D:706:ALA:HB2	2.27	0.64
1:E:848:ASP:H	2:O:303:ALA:CB	2.09	0.64
2:I:645:LEU:N	3:J:1450:GLU:CA	2.50	0.64
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.64
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.11	0.64
2:C:215:LEU:C	2:C:217:ASP:H	2.04	0.64
1:E:848:ASP:H	2:O:303:ALA:CB	2.09	0.64
2:I:645:LEU:N	3:J:1450:GLU:CA	2.50	0.64
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.64
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.64
2:C:523:LEU:CA	3:D:1613:VAL:CB	2.76	0.64
2:C:531:LEU:HA	3:D:1664:ASP:CB	2.27	0.64
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.11	0.64
3:J:1489:HIS:CB	3:J:1492:GLY:H	2.11	0.64
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.64
2:U:645:LEU:N	3:V:1452:LEU:C	2.36	0.64
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.64
2:O:780:ASP:HA	1:W:136:TYR:CA	2.28	0.64
3:P:880:GLU:O	6:T:412:GLU:N	2.31	0.64
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:780:ASP:HA	1:W:136:TYR:CA	2.28	0.64
3:P:880:GLU:O	6:T:412:GLU:N	2.31	0.64
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.64
2:O:780:ASP:HA	1:W:136:TYR:CA	2.28	0.64
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.64
2:O:780:ASP:HA	1:W:136:TYR:CA	2.28	0.64
2:O:780:ASP:HA	1:W:136:TYR:CA	2.28	0.64
2:O:780:ASP:HA	1:W:136:TYR:CA	2.28	0.64
3:P:1485:ALA:O	3:P:1486:CYS:C	2.34	0.64
2:C:524:ARG:O	3:D:1610:PRO:CB	2.45	0.64
4:L:455:ILE:C	4:L:456:ASP:C	2.56	0.64
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.64
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.10	0.64
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.64
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.64
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.10	0.64
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.64
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.64
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.10	0.64
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.64
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.64
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.64
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.64
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.64
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.64
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.64
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.64
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.64
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.10	0.64
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.64
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.64
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.64
1:E:851:ALA:HB3	2:O:305:LEU:O	1.96	0.64
5:G:327:ARG:CB	5:G:327:ARG:C	2.71	0.64
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.64
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.64
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.64
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.64
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.64
5:Y:276:SER:C	5:Y:276:SER:CB	2.68	0.64
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.64
1:E:847:ARG:O	2:O:305:LEU:N	2.24	0.63
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.63
2:I:644:LYS:N	3:J:1453:THR:CA	2.14	0.63
4:L:493:HIS:CB	4:L:493:HIS:C	2.60	0.63
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.63
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.63
6:N:408:SER:C	6:N:409:PRO:C	2.64	0.63
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.63
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.63
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.63
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.63
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.63
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.63
6:N:408:SER:C	6:N:409:PRO:C	2.64	0.63
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.63
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.10	0.63
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.63
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.63
6:N:408:SER:C	6:N:409:PRO:C	2.64	0.63
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.63
3:D:1489:HIS:CB	3:D:1492:GLY:H	2.10	0.63
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.63
6:N:408:SER:C	6:N:409:PRO:C	2.64	0.63
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.63
4:X:453:TYR:O	4:X:454:TYR:C	2.40	0.63
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.63
1:Q:942:PRO:HA	1:Q:943:GLN:CB	2.17	0.63
5:Y:327:ARG:CB	5:Y:327:ARG:C	2.71	0.63
1:B:441:PHE:C	1:B:443:LYS:H	2.06	0.63
2:C:305:LEU:CA	1:Q:848:ASP:C	2.67	0.63
2:U:643:ASN:CB	3:V:1453:THR:CB	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
1:Q:1232:SER:C	1:W:579:GLU:CB	2.71	0.63
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.63
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.63
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.63
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.63
1:Q:1232:SER:C	1:W:579:GLU:CB	2.71	0.63
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.63
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
1:Q:1232:SER:C	1:W:579:GLU:CB	2.71	0.63
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.63
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.63
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.63
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
1:Q:1232:SER:C	1:W:579:GLU:CB	2.71	0.63
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.63
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.63
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.63
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.63
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.63
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.63
1:A:441:PHE:C	1:A:443:LYS:H	2.06	0.63
3:V:1485:ALA:O	3:V:1486:CYS:C	2.34	0.63
2:C:534:LEU:CA	3:D:1668:GLY:H	2.11	0.63
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.63
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.63
5:M:325:ALA:C	5:M:326:LEU:CA	2.70	0.63
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.63
1:Q:441:PHE:C	1:Q:443:LYS:H	2.06	0.63
2:C:709:ARG:C	1:K:195:SER:O	2.40	0.63
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.63
2:C:709:ARG:C	1:K:195:SER:O	2.40	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
2:C:709:ARG:C	1:K:195:SER:O	2.40	0.63
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:709:ARG:C	1:K:195:SER:O	2.40	0.63
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.63
2:C:709:ARG:C	1:K:195:SER:O	2.40	0.63
5:Y:325:ALA:C	5:Y:326:LEU:CA	2.70	0.63
2:C:709:ARG:C	1:K:195:SER:O	2.40	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.10	0.63
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.63
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.10	0.63
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.63
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.10	0.63
3:P:1489:HIS:CB	3:P:1492:GLY:H	2.10	0.63
2:I:641:LEU:O	3:J:1451:ARG:C	2.39	0.63
1:Q:1264:LEU:CA	3:V:686:GLY:O	2.47	0.63
5:S:327:ARG:CB	5:S:327:ARG:C	2.71	0.63
1:W:942:PRO:HA	1:W:943:GLN:CB	2.17	0.63
1:E:852:VAL:N	2:O:305:LEU:H	1.93	0.63
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.63
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
1:E:852:VAL:N	2:O:305:LEU:H	1.93	0.63
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.63
5:G:276:SER:C	5:G:276:SER:CB	2.68	0.63
1:E:852:VAL:N	2:O:305:LEU:H	1.93	0.63
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.63
1:E:852:VAL:N	2:O:305:LEU:H	1.93	0.63
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.63
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.63
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.63
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.63
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.63
1:E:441:PHE:C	1:E:443:LYS:H	2.06	0.63
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.63
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.63
4:X:491:VAL:C	4:X:493:HIS:N	2.56	0.63
4:F:235:ASP:CB	4:F:235:ASP:C	2.68	0.63
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.63
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.63
4:L:298:GLN:C	4:L:299:ASN:C	2.67	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
1:Q:1366:SER:HA	3:V:878:PRO:O	1.97	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.63
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.63
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.63
4:L:491:VAL:C	4:L:493:HIS:N	2.56	0.63
5:S:276:SER:C	5:S:276:SER:CB	2.68	0.63
2:C:534:LEU:HA	3:D:1668:GLY:H	1.64	0.63
3:D:174:THR:HA	3:D:181:GLY:HA3	1.80	0.63
3:J:174:THR:HA	3:J:181:GLY:HA3	1.79	0.63
3:P:174:THR:HA	3:P:181:GLY:HA3	1.80	0.63
1:Q:1312:PRO:O	3:V:721:SER:HA	1.98	0.63
3:V:174:THR:HA	3:V:181:GLY:HA3	1.80	0.63
3:V:1489:HIS:CB	3:V:1492:GLY:H	2.11	0.63
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
4:L:453:TYR:O	4:L:454:TYR:C	2.40	0.63
4:X:298:GLN:C	4:X:299:ASN:C	2.67	0.63
2:O:783:SER:CA	1:W:92:GLU:N	2.54	0.63
1:A:205:LEU:C	1:A:207:SER:HA	2.24	0.62
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.62
1:E:845:TYR:O	2:O:299:ILE:C	2.41	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.62
1:E:845:TYR:O	2:O:299:ILE:C	2.41	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
4:F:491:VAL:C	4:F:493:HIS:N	2.56	0.62
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.62
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.62
2:O:785:LEU:HA	1:W:132:GLY:CA	2.27	0.62
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.62
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.62
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.62
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.62
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.62
2:O:785:LEU:HA	1:W:132:GLY:CA	2.27	0.62
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.62
4:R:491:VAL:C	4:R:493:HIS:N	2.56	0.62
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.62
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.62
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.62
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.62
2:O:785:LEU:HA	1:W:132:GLY:CA	2.27	0.62
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.62
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.62
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.62
2:O:785:LEU:HA	1:W:132:GLY:CA	2.27	0.62
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.62
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.62
2:C:299:ILE:C	1:Q:845:TYR:O	2.41	0.62
2:O:785:LEU:HA	1:W:132:GLY:CA	2.27	0.62
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.62
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.62
2:C:299:ILE:C	1:Q:845:TYR:O	2.41	0.62
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.62
2:O:785:LEU:HA	1:W:132:GLY:CA	2.27	0.62
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.62
3:V:1664:ASP:N	3:V:1667:ALA:HB2	2.13	0.62
1:W:441:PHE:C	1:W:443:LYS:H	2.06	0.62
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.62
5:S:325:ALA:C	5:S:326:LEU:CA	2.70	0.62
2:U:617:GLU:HA	3:V:1446:LYS:CB	2.29	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.62
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.62
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.62
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.62
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.62
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.62
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.62
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.62
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.62
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.62
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.62
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.62
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
5:Y:379:HIS:N	5:Y:379:HIS:HA	2.05	0.62
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.62
4:X:493:HIS:CB	4:X:493:HIS:C	2.60	0.62
3:D:1472:SER:O	3:P:1472:SER:O	2.16	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
1:Q:1239:ASP:CB	1:W:572:ALA:CA	2.77	0.62
3:D:1472:SER:O	3:P:1472:SER:O	2.16	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
1:Q:1239:ASP:CB	1:W:572:ALA:CA	2.77	0.62
3:D:1472:SER:O	3:P:1472:SER:O	2.16	0.62
1:Q:1239:ASP:CB	1:W:572:ALA:CA	2.77	0.62
1:Q:1239:ASP:CB	1:W:572:ALA:CA	2.77	0.62
1:E:1306:LEU:CB	3:J:241:LEU:CB	2.78	0.62
3:D:1472:SER:O	3:P:1472:SER:O	2.16	0.62
1:E:1306:LEU:CB	3:J:241:LEU:CB	2.78	0.62
6:H:408:SER:C	6:H:409:PRO:C	2.64	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
1:Q:1308:LYS:C	3:V:732:PHE:CB	2.72	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:205:LEU:C	1:B:207:SER:HA	2.25	0.62
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.25	0.62
4:F:298:GLN:C	4:F:299:ASN:C	2.67	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.25	0.62
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.25	0.62
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.62
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.25	0.62
3:D:1664:ASP:N	3:D:1667:ALA:HB2	2.13	0.62
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.25	0.62
6:T:408:SER:C	6:T:409:PRO:C	2.64	0.62
1:B:205:LEU:C	1:B:207:SER:HA	2.24	0.62
2:C:306:PRO:O	1:Q:850:ALA:HB3	1.99	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.62
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.62
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.62
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.62
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.62
2:O:19:GLU:CB	2:O:20:THR:HA	2.30	0.62
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.62
5:M:342:PRO:O	5:M:343:ALA:C	2.43	0.62
1:Q:1306:LEU:CB	3:V:241:LEU:CB	2.78	0.62
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.62
3:J:1664:ASP:N	3:J:1667:ALA:HB2	2.13	0.62
4:L:399:SER:C	4:L:401:TYR:N	2.37	0.62
1:Q:1306:LEU:CB	3:V:241:LEU:CB	2.78	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
2:O:173:PRO:N	3:P:1685:LEU:O	2.32	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
2:O:173:PRO:N	3:P:1685:LEU:O	2.32	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
2:O:173:PRO:N	3:P:1685:LEU:O	2.32	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
1:K:205:LEU:C	1:K:207:SER:HA	2.25	0.62
2:O:173:PRO:N	3:P:1685:LEU:O	2.32	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:W:205:LEU:C	1:W:207:SER:HA	2.25	0.62
5:G:342:PRO:O	5:G:343:ALA:C	2.43	0.62
2:O:784:GLN:CB	1:W:132:GLY:HA2	2.29	0.62
2:C:173:PRO:N	3:D:1685:LEU:O	2.32	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
2:C:173:PRO:N	3:D:1685:LEU:O	2.32	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
2:C:173:PRO:N	3:D:1685:LEU:O	2.32	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.62
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.62
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.62
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:173:PRO:N	3:D:1685:LEU:O	2.32	0.62
1:E:205:LEU:C	1:E:207:SER:HA	2.25	0.62
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.62
1:K:441:PHE:C	1:K:443:LYS:H	2.06	0.62
6:Z:408:SER:C	6:Z:409:PRO:C	2.64	0.62
2:C:778:ILE:O	1:K:122:ASP:HA	2.00	0.62
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.62
3:D:1511:GLN:HA	3:P:1468:ALA:HB3	1.79	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.62
2:C:778:ILE:O	1:K:122:ASP:HA	2.00	0.62
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.62
3:D:1511:GLN:HA	3:P:1468:ALA:HB3	1.79	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.62
2:C:778:ILE:O	1:K:122:ASP:HA	2.00	0.62
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.62
3:D:1511:GLN:HA	3:P:1468:ALA:HB3	1.79	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.62
2:C:778:ILE:O	1:K:122:ASP:HA	2.00	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.62
2:C:778:ILE:O	1:K:122:ASP:HA	2.00	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.62
2:C:778:ILE:O	1:K:122:ASP:HA	2.00	0.62
3:D:1485:ALA:O	3:D:1486:CYS:C	2.34	0.62
3:D:1511:GLN:HA	3:P:1468:ALA:HB3	1.79	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.62
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.62
2:I:725:GLU:C	2:I:727:VAL:H	2.08	0.62
4:R:298:GLN:C	4:R:299:ASN:C	2.67	0.62
1:A:205:LEU:C	1:A:207:SER:HA	2.25	0.62
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.62
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.62
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:A:205:LEU:C	1:A:207:SER:HA	2.25	0.62
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.62
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:342:PRO:O	5:S:343:ALA:C	2.43	0.62
1:A:205:LEU:C	1:A:207:SER:HA	2.25	0.62
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.62
1:A:205:LEU:C	1:A:207:SER:HA	2.25	0.62
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.62
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.62
1:A:205:LEU:C	1:A:207:SER:HA	2.25	0.62
3:P:1664:ASP:N	3:P:1667:ALA:HB2	2.13	0.62
1:A:205:LEU:C	1:A:207:SER:HA	2.25	0.62
1:E:852:VAL:CB	2:O:304:PRO:C	2.72	0.61
3:J:715:VAL:HA	3:J:718:SER:CB	2.30	0.61
2:U:645:LEU:N	3:V:1450:GLU:CA	2.50	0.61
3:J:715:VAL:HA	3:J:718:SER:CB	2.30	0.61
2:U:645:LEU:N	3:V:1450:GLU:CA	2.50	0.61
3:J:715:VAL:HA	3:J:718:SER:CB	2.30	0.61
2:U:645:LEU:N	3:V:1450:GLU:CA	2.50	0.61
3:J:715:VAL:HA	3:J:718:SER:CB	2.30	0.61
3:P:715:VAL:HA	3:P:718:SER:CB	2.30	0.61
2:U:645:LEU:N	3:V:1450:GLU:CA	2.50	0.61
3:J:715:VAL:HA	3:J:718:SER:CB	2.30	0.61
3:P:715:VAL:HA	3:P:718:SER:CB	2.30	0.61
2:U:645:LEU:N	3:V:1450:GLU:CA	2.50	0.61
3:J:715:VAL:HA	3:J:718:SER:CB	2.30	0.61
2:U:645:LEU:N	3:V:1450:GLU:CA	2.50	0.61
5:Y:342:PRO:O	5:Y:343:ALA:C	2.43	0.61
3:P:715:VAL:HA	3:P:718:SER:CB	2.30	0.61
4:L:493:HIS:CB	4:L:493:HIS:C	2.61	0.61
3:P:715:VAL:HA	3:P:718:SER:CB	2.30	0.61
3:P:715:VAL:HA	3:P:718:SER:CB	2.30	0.61
4:L:493:HIS:CB	4:L:493:HIS:C	2.61	0.61
3:P:715:VAL:HA	3:P:718:SER:CB	2.30	0.61
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
2:O:781:ARG:N	1:W:136:TYR:HA	2.05	0.61
3:V:715:VAL:HA	3:V:718:SER:CB	2.30	0.61
2:O:781:ARG:N	1:W:136:TYR:HA	2.05	0.61
3:V:715:VAL:HA	3:V:718:SER:CB	2.30	0.61
2:O:781:ARG:N	1:W:136:TYR:HA	2.05	0.61
3:V:715:VAL:HA	3:V:718:SER:CB	2.30	0.61
2:O:781:ARG:N	1:W:136:TYR:HA	2.05	0.61
3:V:715:VAL:HA	3:V:718:SER:CB	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:781:ARG:N	1:W:136:TYR:HA	2.05	0.61
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.61
3:V:715:VAL:HA	3:V:718:SER:CB	2.30	0.61
2:O:781:ARG:N	1:W:136:TYR:HA	2.05	0.61
1:Q:205:LEU:C	1:Q:207:SER:HA	2.25	0.61
3:V:715:VAL:HA	3:V:718:SER:CB	2.30	0.61
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.61
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.61
3:D:715:VAL:HA	3:D:718:SER:CB	2.30	0.61
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.61
3:D:715:VAL:HA	3:D:718:SER:CB	2.30	0.61
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.61
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
2:C:679:ILE:O	1:K:851:ALA:C	2.44	0.61
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
4:L:456:ASP:CA	4:L:457:ALA:N	2.33	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
2:U:725:GLU:C	2:U:727:VAL:H	2.08	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
2:O:654:SER:N	3:P:1454:ALA:O	2.32	0.61
1:Q:1307:PHE:H	3:V:733:ASP:CB	2.10	0.61
3:D:715:VAL:HA	3:D:718:SER:CB	2.30	0.61
3:D:715:VAL:HA	3:D:718:SER:CB	2.30	0.61
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.61
3:D:715:VAL:HA	3:D:718:SER:CB	2.30	0.61
3:D:715:VAL:HA	3:D:718:SER:CB	2.30	0.61
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.61
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.61
2:O:724:GLN:CB	1:W:508:SER:N	2.64	0.61
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:724:GLN:CB	1:W:508:SER:N	2.64	0.61
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.61
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.61
2:O:724:GLN:CB	1:W:508:SER:N	2.64	0.61
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.61
2:O:724:GLN:CB	1:W:508:SER:N	2.64	0.61
2:I:19:GLU:CB	2:I:20:THR:HA	2.30	0.61
2:O:724:GLN:CB	1:W:508:SER:N	2.64	0.61
2:O:724:GLN:CB	1:W:508:SER:N	2.64	0.61
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
5:M:326:LEU:CB	5:M:327:ARG:HA	2.31	0.61
2:C:785:LEU:CA	1:K:131:GLY:O	2.48	0.61
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
2:U:19:GLU:CB	2:U:20:THR:HA	2.30	0.61
5:Y:326:LEU:CB	5:Y:327:ARG:HA	2.31	0.61
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
1:E:845:TYR:CB	2:O:299:ILE:C	2.73	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
1:E:845:TYR:CB	2:O:299:ILE:C	2.73	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
1:E:845:TYR:CB	2:O:299:ILE:C	2.73	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
1:E:845:TYR:CB	2:O:299:ILE:C	2.73	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:19:GLU:CB	2:C:20:THR:HA	2.30	0.60
2:C:725:GLU:C	2:C:727:VAL:H	2.08	0.60
2:O:779:GLU:CB	1:W:137:PHE:CA	2.72	0.60
2:O:779:GLU:CB	1:W:137:PHE:CA	2.72	0.60
2:O:779:GLU:CB	1:W:137:PHE:CA	2.72	0.60
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.60
2:O:779:GLU:CB	1:W:137:PHE:CA	2.72	0.60
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.60
2:O:779:GLU:CB	1:W:137:PHE:CA	2.72	0.60
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.60
2:O:779:GLU:CB	1:W:137:PHE:CA	2.72	0.60
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.60
1:E:1266:PHE:O	3:J:680:SER:C	2.44	0.60
2:I:620:GLY:N	3:J:1446:LYS:CA	2.62	0.60
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.60
1:E:849:ASN:CA	2:O:302:PRO:O	2.49	0.60
1:E:1239:ASP:O	1:K:572:ALA:CB	2.49	0.60
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.60
1:E:849:ASN:CA	2:O:302:PRO:O	2.49	0.60
1:E:1239:ASP:O	1:K:572:ALA:CB	2.49	0.60
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.60
1:E:849:ASN:CA	2:O:302:PRO:O	2.49	0.60
1:E:1239:ASP:O	1:K:572:ALA:CB	2.49	0.60
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.60
1:E:849:ASN:CA	2:O:302:PRO:O	2.49	0.60
1:E:1239:ASP:O	1:K:572:ALA:CB	2.49	0.60
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.60
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.60
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.60
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.60
4:R:493:HIS:CB	4:R:493:HIS:C	2.61	0.60
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.60
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.60
2:C:304:PRO:CA	1:Q:849:ASN:O	2.49	0.60
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.60
2:C:304:PRO:CA	1:Q:849:ASN:O	2.49	0.60
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.60
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.60
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.60
3:D:644:ALA:HA	3:D:706:ALA:HB2	1.83	0.60
3:J:644:ALA:HA	3:J:706:ALA:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
2:O:654:SER:O	3:P:1455:PRO:N	2.33	0.60
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.60
2:C:726:SER:N	1:K:86:ARG:H	2.00	0.60
2:C:726:SER:N	1:K:86:ARG:H	2.00	0.60
2:C:726:SER:N	1:K:86:ARG:H	2.00	0.60
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.60
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
2:C:726:SER:N	1:K:86:ARG:H	2.00	0.60
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.60
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
2:O:173:PRO:N	3:P:1685:LEU:C	2.48	0.60
2:C:726:SER:N	1:K:86:ARG:H	2.00	0.60
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.60
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
2:O:173:PRO:N	3:P:1685:LEU:C	2.48	0.60
2:C:726:SER:N	1:K:86:ARG:H	2.00	0.60
5:G:325:ALA:C	5:G:326:LEU:CA	2.70	0.60
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
1:Q:1306:LEU:O	3:V:731:GLY:O	2.20	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.60
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.60
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.60
4:R:493:HIS:CB	4:R:493:HIS:C	2.61	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.60
4:R:483:ASP:CB	4:R:483:ASP:N	2.60	0.60
4:R:493:HIS:CB	4:R:493:HIS:C	2.61	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.60
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.60
1:K:312:MET:CB	1:K:313:SER:HA	2.32	0.60
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.60
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.60
5:S:326:LEU:CB	5:S:327:ARG:HA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.60
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.60
5:G:326:LEU:CB	5:G:327:ARG:HA	2.31	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.60
3:J:1542:PRO:O	3:J:1545:PRO:N	2.35	0.60
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.60
2:C:303:ALA:HB3	1:Q:849:ASN:H	1.50	0.60
2:U:740:GLU:CB	3:V:1454:ALA:HB2	2.31	0.60
1:E:851:ALA:C	2:O:305:LEU:N	2.54	0.60
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.60
1:E:851:ALA:C	2:O:305:LEU:N	2.54	0.60
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.60
1:E:851:ALA:C	2:O:305:LEU:N	2.54	0.60
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.60
1:E:851:ALA:C	2:O:305:LEU:N	2.54	0.60
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.60
2:O:523:LEU:CB	3:P:1662:CYS:HA	2.31	0.60
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.60
2:O:523:LEU:CB	3:P:1662:CYS:HA	2.31	0.60
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.60
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.60
2:O:778:ILE:CB	1:W:138:ASP:O	2.49	0.60
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.60
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.60
2:O:778:ILE:CB	1:W:138:ASP:O	2.49	0.60
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.60
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.60
2:O:778:ILE:CB	1:W:138:ASP:O	2.49	0.60
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.60
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.60
2:O:778:ILE:CB	1:W:138:ASP:O	2.49	0.60
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:778:ILE:CB	1:W:138:ASP:O	2.49	0.60
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.60
2:O:778:ILE:CB	1:W:138:ASP:O	2.49	0.60
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.60
2:C:306:PRO:C	1:Q:850:ALA:H	2.05	0.60
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.60
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.60
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.60
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.60
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.60
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.60
1:E:849:ASN:O	2:O:304:PRO:CA	2.49	0.60
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.60
1:E:849:ASN:O	2:O:304:PRO:CA	2.49	0.60
4:L:328:VAL:C	4:L:328:VAL:CB	2.67	0.60
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.60
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.60
6:N:408:SER:C	6:N:409:PRO:C	2.65	0.59
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.59
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.59
2:C:590:ASP:CB	1:K:848:ASP:H	2.15	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.59
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.59
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.59
2:C:590:ASP:CB	1:K:848:ASP:H	2.15	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.59
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.59
2:C:590:ASP:CB	1:K:848:ASP:H	2.15	0.59
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.59
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.59
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.59
2:C:590:ASP:CB	1:K:848:ASP:H	2.15	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.59
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.59
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.59
2:C:590:ASP:CB	1:K:848:ASP:H	2.15	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.59
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.59
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.59
1:B:312:MET:CB	1:B:313:SER:HA	2.32	0.59
1:B:376:ARG:C	1:B:380:ALA:HA	2.27	0.59
2:C:590:ASP:CB	1:K:848:ASP:H	2.15	0.59
1:E:376:ARG:C	1:E:380:ALA:HA	2.27	0.59
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
2:U:622:PHE:N	3:V:1449:TRP:CB	2.65	0.59
3:V:1489:HIS:O	3:V:1490:GLU:C	2.44	0.59
3:V:1542:PRO:O	3:V:1545:PRO:N	2.35	0.59
1:W:312:MET:CB	1:W:313:SER:HA	2.32	0.59
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.59
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.59
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.59
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.59
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
1:A:312:MET:CB	1:A:313:SER:HA	2.32	0.59
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
4:X:328:VAL:CA	4:X:328:VAL:O	2.40	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
3:D:1542:PRO:O	3:D:1545:PRO:N	2.35	0.59
1:W:376:ARG:C	1:W:380:ALA:HA	2.27	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.59
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.59
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.59
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.59
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.59
4:R:328:VAL:C	4:R:328:VAL:CB	2.67	0.59
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.59
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.59
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.59
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.59
1:K:376:ARG:C	1:K:380:ALA:HA	2.27	0.59
2:C:781:ARG:N	1:K:136:TYR:HA	2.07	0.59
2:O:173:PRO:N	3:P:1685:LEU:C	2.60	0.59
2:O:590:ASP:CB	1:W:851:ALA:HB2	2.33	0.59
2:C:781:ARG:N	1:K:136:TYR:HA	2.07	0.59
2:O:173:PRO:N	3:P:1685:LEU:C	2.60	0.59
2:O:590:ASP:CB	1:W:851:ALA:HB2	2.33	0.59
2:C:781:ARG:N	1:K:136:TYR:HA	2.07	0.59
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.59
2:O:173:PRO:N	3:P:1685:LEU:C	2.60	0.59
2:O:590:ASP:CB	1:W:851:ALA:HB2	2.33	0.59
2:C:781:ARG:N	1:K:136:TYR:HA	2.07	0.59
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.59
2:O:590:ASP:CB	1:W:851:ALA:HB2	2.33	0.59
2:C:781:ARG:N	1:K:136:TYR:HA	2.07	0.59
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.59
2:O:590:ASP:CB	1:W:851:ALA:HB2	2.33	0.59
2:C:781:ARG:N	1:K:136:TYR:HA	2.07	0.59
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.59
2:O:173:PRO:N	3:P:1685:LEU:C	2.60	0.59
2:O:590:ASP:CB	1:W:851:ALA:HB2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:644:ALA:HA	3:P:706:ALA:HB2	1.83	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
1:E:312:MET:CB	1:E:313:SER:HA	2.32	0.59
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.59
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.59
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
4:F:450:GLU:N	4:F:451:GLU:N	2.50	0.59
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.59
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.59
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.59
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.59
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.59
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.59
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.59
1:A:376:ARG:C	1:A:380:ALA:HA	2.27	0.59
3:D:1489:HIS:O	3:D:1490:GLU:C	2.44	0.59
2:O:725:GLU:C	2:O:727:VAL:H	2.08	0.59
1:Q:376:ARG:C	1:Q:380:ALA:HA	2.27	0.59
2:O:655:ALA:HB1	3:P:1447:THR:O	2.02	0.59
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.59
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
3:P:1542:PRO:O	3:P:1545:PRO:N	2.35	0.59
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
4:R:450:GLU:N	4:R:451:GLU:N	2.50	0.59
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.59
1:Q:312:MET:CB	1:Q:313:SER:HA	2.32	0.59
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.59
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.59
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
3:D:1471:GLU:O	3:P:1472:SER:C	2.36	0.59
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.59
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.59
3:P:879:LEU:CB	6:T:415:LYS:C	2.75	0.59
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.59
3:D:1471:GLU:O	3:P:1472:SER:C	2.36	0.59
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.59
3:P:879:LEU:CB	6:T:415:LYS:C	2.75	0.59
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
3:D:1471:GLU:O	3:P:1472:SER:C	2.36	0.59
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.59
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.59
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.59
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.59
3:D:1471:GLU:O	3:P:1472:SER:C	2.36	0.59
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.59
4:X:450:GLU:N	4:X:451:GLU:N	2.50	0.59
4:L:235:ASP:CB	4:L:235:ASP:C	2.68	0.59
4:L:328:VAL:CA	4:L:328:VAL:O	2.40	0.59
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.59
4:F:328:VAL:C	4:F:328:VAL:CB	2.67	0.59
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.59
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.59
5:S:379:HIS:N	5:S:379:HIS:HA	2.05	0.59
5:S:379:HIS:N	5:S:379:HIS:HA	2.05	0.59
5:S:379:HIS:N	5:S:379:HIS:HA	2.05	0.59
5:S:379:HIS:N	5:S:379:HIS:HA	2.05	0.59
4:X:455:ILE:C	4:X:456:ASP:C	2.56	0.59
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.59
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.58
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.58
2:C:173:PRO:N	3:D:1685:LEU:C	2.60	0.58
1:E:1239:ASP:CB	1:K:572:ALA:C	2.76	0.58
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.58
2:C:173:PRO:N	3:D:1685:LEU:C	2.60	0.58
1:E:1239:ASP:CB	1:K:572:ALA:C	2.76	0.58
2:C:173:PRO:N	3:D:1685:LEU:C	2.60	0.58
1:E:1239:ASP:CB	1:K:572:ALA:C	2.76	0.58
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:174:GLY:CA	3:D:1682:LYS:CB	2.74	0.58
1:E:1239:ASP:CB	1:K:572:ALA:C	2.76	0.58
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.58
2:C:174:GLY:CA	3:D:1682:LYS:CB	2.74	0.58
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.58
2:C:173:PRO:N	3:D:1685:LEU:C	2.60	0.58
2:O:783:SER:H	1:W:92:GLU:N	2.00	0.58
2:C:590:ASP:CB	1:K:851:ALA:HB2	2.33	0.58
1:E:1239:ASP:CB	1:K:572:ALA:CA	2.80	0.58
2:C:590:ASP:CB	1:K:851:ALA:HB2	2.33	0.58
1:E:1239:ASP:CB	1:K:572:ALA:CA	2.80	0.58
2:C:590:ASP:CB	1:K:851:ALA:HB2	2.33	0.58
1:E:1239:ASP:CB	1:K:572:ALA:CA	2.80	0.58
2:C:173:PRO:CB	3:D:1681:SER:O	2.51	0.58
2:C:590:ASP:CB	1:K:851:ALA:HB2	2.33	0.58
1:E:1239:ASP:CB	1:K:572:ALA:CA	2.80	0.58
2:C:173:PRO:CB	3:D:1681:SER:O	2.51	0.58
2:C:590:ASP:CB	1:K:851:ALA:HB2	2.33	0.58
2:C:590:ASP:CB	1:K:851:ALA:HB2	2.33	0.58
2:O:588:GLU:HA	1:W:849:ASN:CB	2.33	0.58
2:O:588:GLU:HA	1:W:849:ASN:CB	2.33	0.58
2:O:588:GLU:HA	1:W:849:ASN:CB	2.33	0.58
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.58
2:O:588:GLU:HA	1:W:849:ASN:CB	2.33	0.58
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.58
2:O:588:GLU:HA	1:W:849:ASN:CB	2.33	0.58
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.58
2:O:588:GLU:HA	1:W:849:ASN:CB	2.33	0.58
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.58
2:C:524:ARG:O	3:D:1610:PRO:CA	2.40	0.58
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.58
3:J:1489:HIS:O	3:J:1490:GLU:C	2.44	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
3:P:1489:HIS:O	3:P:1490:GLU:C	2.44	0.58
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.58
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.58
2:C:778:ILE:CA	1:K:140:LEU:N	2.66	0.58
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.58
2:C:778:ILE:CA	1:K:140:LEU:N	2.66	0.58
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.58
2:C:778:ILE:CA	1:K:140:LEU:N	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:778:ILE:CA	1:K:140:LEU:N	2.66	0.58
2:C:778:ILE:CA	1:K:140:LEU:N	2.66	0.58
2:C:778:ILE:CA	1:K:140:LEU:N	2.66	0.58
2:C:782:ASP:O	1:K:93:LEU:HA	1.85	0.58
2:O:723:ASN:CA	1:W:128:TYR:O	2.52	0.58
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.58
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.58
2:C:782:ASP:O	1:K:93:LEU:HA	1.85	0.58
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
2:O:723:ASN:CA	1:W:128:TYR:O	2.52	0.58
2:C:782:ASP:O	1:K:93:LEU:HA	1.85	0.58
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.58
2:O:723:ASN:CA	1:W:128:TYR:O	2.52	0.58
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.58
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.58
2:C:782:ASP:O	1:K:93:LEU:HA	1.85	0.58
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.58
2:O:723:ASN:CA	1:W:128:TYR:O	2.52	0.58
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.58
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.58
2:C:782:ASP:O	1:K:93:LEU:HA	1.85	0.58
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.58
2:O:723:ASN:CA	1:W:128:TYR:O	2.52	0.58
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.58
5:Y:339:TYR:CB	5:Y:341:ALA:H	2.16	0.58
2:C:782:ASP:O	1:K:93:LEU:HA	1.85	0.58
5:G:339:TYR:CB	5:G:341:ALA:H	2.16	0.58
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
2:O:723:ASN:CA	1:W:128:TYR:O	2.52	0.58
3:D:1472:SER:CA	3:P:1474:GLY:CA	2.30	0.58
3:D:1664:ASP:O	3:D:1667:ALA:HB3	2.04	0.58
3:D:1472:SER:CA	3:P:1474:GLY:CA	2.30	0.58
3:D:1664:ASP:O	3:D:1667:ALA:HB3	2.04	0.58
3:D:1472:SER:CA	3:P:1474:GLY:CA	2.30	0.58
3:D:1664:ASP:O	3:D:1667:ALA:HB3	2.04	0.58
3:D:1472:SER:CA	3:P:1474:GLY:CA	2.30	0.58
3:D:1664:ASP:O	3:D:1667:ALA:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:450:GLU:N	4:L:451:GLU:N	2.50	0.58
4:X:235:ASP:CB	4:X:235:ASP:C	2.68	0.58
2:C:723:ASN:CA	1:K:128:TYR:O	2.52	0.58
1:E:1305:GLN:CB	3:J:172:ARG:CA	2.82	0.58
2:O:785:LEU:CB	1:W:134:LEU:CB	2.82	0.58
2:C:723:ASN:CA	1:K:128:TYR:O	2.52	0.58
1:E:1305:GLN:CB	3:J:172:ARG:CA	2.82	0.58
2:O:785:LEU:CB	1:W:134:LEU:CB	2.82	0.58
2:C:723:ASN:CA	1:K:128:TYR:O	2.52	0.58
1:E:1305:GLN:CB	3:J:172:ARG:CA	2.82	0.58
2:O:785:LEU:CB	1:W:134:LEU:CB	2.82	0.58
2:C:723:ASN:CA	1:K:128:TYR:O	2.52	0.58
1:E:1305:GLN:CB	3:J:172:ARG:CA	2.82	0.58
2:O:785:LEU:CB	1:W:134:LEU:CB	2.82	0.58
2:C:723:ASN:CA	1:K:128:TYR:O	2.52	0.58
2:O:785:LEU:CB	1:W:134:LEU:CB	2.82	0.58
2:C:723:ASN:CA	1:K:128:TYR:O	2.52	0.58
2:O:785:LEU:CB	1:W:134:LEU:CB	2.82	0.58
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.58
1:Q:1365:GLN:C	3:V:878:PRO:O	2.46	0.58
1:Q:1305:GLN:CB	3:V:172:ARG:HA	2.34	0.58
5:S:379:HIS:N	5:S:379:HIS:HA	2.05	0.58
1:Q:1305:GLN:CB	3:V:172:ARG:HA	2.34	0.58
5:S:379:HIS:N	5:S:379:HIS:HA	2.05	0.58
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.58
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.58
1:Q:1305:GLN:CB	3:V:172:ARG:HA	2.34	0.58
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.58
1:Q:1305:GLN:CB	3:V:172:ARG:HA	2.34	0.58
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.58
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.58
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.58
4:X:328:VAL:C	4:X:328:VAL:CB	2.67	0.58
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.58
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.58
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.58
1:Q:1319:LYS:CA	3:V:722:ASN:CB	2.80	0.58
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.58
5:M:339:TYR:O	5:M:340:ALA:CB	2.51	0.58
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.58
1:E:1165:TYR:CA	1:K:727:PHE:N	2.47	0.58
1:E:1311:ASP:CB	3:J:799:LYS:HA	2.34	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
2:C:588:GLU:HA	1:K:849:ASN:CB	2.34	0.58
3:D:1664:ASP:C	3:D:1667:ALA:H	2.12	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
2:O:782:ASP:O	1:W:93:LEU:HA	1.85	0.58
2:C:588:GLU:HA	1:K:849:ASN:CB	2.34	0.58
3:D:1664:ASP:C	3:D:1667:ALA:H	2.12	0.58
2:O:782:ASP:O	1:W:93:LEU:HA	1.85	0.58
2:C:588:GLU:HA	1:K:849:ASN:CB	2.34	0.58
3:D:1664:ASP:C	3:D:1667:ALA:H	2.12	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
2:O:782:ASP:O	1:W:93:LEU:HA	1.85	0.58
2:C:588:GLU:HA	1:K:849:ASN:CB	2.34	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
2:O:782:ASP:O	1:W:93:LEU:HA	1.85	0.58
2:C:588:GLU:HA	1:K:849:ASN:CB	2.34	0.58
5:M:339:TYR:CB	5:M:341:ALA:H	2.16	0.58
2:O:782:ASP:O	1:W:93:LEU:HA	1.85	0.58
2:C:588:GLU:HA	1:K:849:ASN:CB	2.34	0.58
3:D:1664:ASP:C	3:D:1667:ALA:H	2.12	0.58
2:O:782:ASP:O	1:W:93:LEU:HA	1.85	0.58
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.57
1:Q:1312:PRO:CB	3:V:720:PRO:C	2.63	0.57
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.57
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.57
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.57
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.57
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.57
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.57
5:S:339:TYR:CB	5:S:341:ALA:H	2.16	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.57
3:D:1664:ASP:O	3:D:1667:ALA:HB3	2.04	0.57
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.57
3:D:1664:ASP:O	3:D:1667:ALA:HB3	2.04	0.57
5:Y:339:TYR:O	5:Y:340:ALA:CB	2.51	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.57
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.57
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.57
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.57
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.57
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.57
2:I:739:ASP:H	3:J:1454:ALA:HB2	1.56	0.57
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.57
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.57
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.57
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.57
2:I:739:ASP:H	3:J:1454:ALA:HB2	1.56	0.57
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.57
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.57
2:I:739:ASP:H	3:J:1454:ALA:HB2	1.56	0.57
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.57
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.57
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.57
2:I:739:ASP:H	3:J:1454:ALA:HB2	1.56	0.57
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.57
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.57
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.57
1:E:1301:GLU:C	3:J:172:ARG:O	2.47	0.57
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.57
2:I:739:ASP:H	3:J:1454:ALA:HB2	1.56	0.57
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.57
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.57
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.57
1:E:1301:GLU:C	3:J:172:ARG:O	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:339:TYR:O	5:G:340:ALA:CB	2.51	0.57
2:I:739:ASP:H	3:J:1454:ALA:HB2	1.56	0.57
3:J:1664:ASP:O	3:J:1667:ALA:HB3	2.04	0.57
2:C:534:LEU:CB	3:D:1667:ALA:CA	2.80	0.57
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.57
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.57
5:S:339:TYR:O	5:S:340:ALA:CB	2.51	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.57
2:C:174:GLY:N	3:D:1682:LYS:HA	2.13	0.57
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.57
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.57
2:C:174:GLY:N	3:D:1682:LYS:HA	2.13	0.57
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.57
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.57
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.57
2:C:535:TYR:N	3:D:1664:ASP:N	2.52	0.57
2:C:681:ALA:H	1:K:850:ALA:HA	1.69	0.57
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.57
2:I:619:LYS:CA	3:J:1445:LYS:CB	2.82	0.57
5:S:379:HIS:N	5:S:379:HIS:HA	2.06	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.57
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.57
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.57
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.57
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.57
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.57
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.57
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.57
1:E:845:TYR:O	2:O:299:ILE:CA	2.52	0.57
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.57
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.57
1:E:845:TYR:O	2:O:299:ILE:CA	2.52	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
2:C:778:ILE:CB	1:K:138:ASP:O	2.52	0.57
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.57
2:O:785:LEU:CA	1:W:132:GLY:C	2.40	0.57
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.57
2:C:778:ILE:CB	1:K:138:ASP:O	2.52	0.57
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:785:LEU:CA	1:W:132:GLY:C	2.40	0.57
2:C:778:ILE:CB	1:K:138:ASP:O	2.52	0.57
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.57
2:O:785:LEU:CA	1:W:132:GLY:C	2.40	0.57
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.57
2:C:778:ILE:CB	1:K:138:ASP:O	2.52	0.57
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.57
2:O:785:LEU:CA	1:W:132:GLY:C	2.40	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.57
2:C:778:ILE:CB	1:K:138:ASP:O	2.52	0.57
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.57
2:O:785:LEU:CA	1:W:132:GLY:C	2.40	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
4:X:483:ASP:CB	4:X:483:ASP:N	2.60	0.57
2:C:778:ILE:CB	1:K:138:ASP:O	2.52	0.57
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.57
2:O:785:LEU:CA	1:W:132:GLY:C	2.40	0.57
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.57
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.57
2:O:778:ILE:CA	1:W:140:LEU:N	2.62	0.57
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.57
4:F:483:ASP:CB	4:F:483:ASP:N	2.60	0.57
2:O:778:ILE:CA	1:W:140:LEU:N	2.62	0.57
4:R:454:TYR:CB	4:R:454:TYR:H	2.10	0.57
2:O:778:ILE:CA	1:W:140:LEU:N	2.62	0.57
2:O:778:ILE:CA	1:W:140:LEU:N	2.62	0.57
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.57
2:O:778:ILE:CA	1:W:140:LEU:N	2.62	0.57
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.57
1:Q:1301:GLU:C	3:V:172:ARG:O	2.47	0.57
2:O:778:ILE:CA	1:W:140:LEU:N	2.62	0.57
1:Q:1301:GLU:C	3:V:172:ARG:O	2.47	0.57
2:C:779:GLU:CA	1:K:123:ILE:H	2.18	0.57
2:C:779:GLU:CA	1:K:123:ILE:H	2.18	0.57
2:C:779:GLU:CA	1:K:123:ILE:H	2.18	0.57
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.57
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.57
2:C:779:GLU:CA	1:K:123:ILE:H	2.18	0.57
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.57
2:O:174:GLY:CA	3:P:1682:LYS:CB	2.75	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.57
2:C:779:GLU:CA	1:K:123:ILE:H	2.18	0.57
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.57
2:O:174:GLY:CA	3:P:1682:LYS:CB	2.75	0.57
3:P:1664:ASP:C	3:P:1667:ALA:H	2.12	0.57
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.57
2:C:779:GLU:CA	1:K:123:ILE:H	2.18	0.57
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.57
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.57
2:I:621:LEU:CA	3:J:1449:TRP:CB	2.83	0.57
3:P:1664:ASP:O	3:P:1667:ALA:HB3	2.04	0.57
1:E:848:ASP:H	2:O:306:PRO:N	2.03	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
1:E:848:ASP:H	2:O:306:PRO:N	2.03	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
1:E:848:ASP:H	2:O:306:PRO:N	2.03	0.57
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.57
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.57
1:E:848:ASP:H	2:O:306:PRO:N	2.03	0.57
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
2:C:298:ASN:O	1:Q:848:ASP:CB	2.53	0.57
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.57
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.57
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
2:C:298:ASN:O	1:Q:848:ASP:CB	2.53	0.57
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.57
3:V:1664:ASP:O	3:V:1667:ALA:HB3	2.04	0.57
1:E:847:ARG:O	2:O:303:ALA:CB	2.47	0.57
1:E:1304:ASP:H	3:J:876:VAL:CA	1.83	0.57
3:D:1472:SER:C	3:P:1471:GLU:O	2.40	0.57
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.57
1:Q:1239:ASP:CA	1:W:572:ALA:CA	2.79	0.57
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
4:X:493:HIS:CB	4:X:493:HIS:C	2.60	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:SER:C	3:P:1471:GLU:O	2.40	0.57
1:Q:1239:ASP:CA	1:W:572:ALA:CA	2.79	0.57
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
3:D:1472:SER:C	3:P:1471:GLU:O	2.40	0.57
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.57
1:Q:1239:ASP:CA	1:W:572:ALA:CA	2.79	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
4:X:493:HIS:CB	4:X:493:HIS:C	2.60	0.57
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.57
1:Q:1239:ASP:CA	1:W:572:ALA:CA	2.79	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
4:X:493:HIS:CB	4:X:493:HIS:C	2.60	0.57
1:E:848:ASP:CB	2:O:298:ASN:O	2.53	0.57
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
4:X:493:HIS:CB	4:X:493:HIS:C	2.60	0.57
3:D:1472:SER:C	3:P:1471:GLU:O	2.40	0.57
1:E:848:ASP:CB	2:O:298:ASN:O	2.53	0.57
3:V:1489:HIS:O	3:V:1491:ILE:N	2.38	0.57
3:V:1664:ASP:C	3:V:1667:ALA:H	2.12	0.57
2:C:681:ALA:HB3	1:K:850:ALA:HA	1.87	0.56
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.56
3:P:1504:VAL:O	3:P:1505:SER:C	2.39	0.56
1:Q:1306:LEU:O	3:V:731:GLY:CA	2.52	0.56
2:U:643:ASN:CB	3:V:1453:THR:HA	2.20	0.56
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.56
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
4:R:493:HIS:CB	4:R:493:HIS:C	2.60	0.56
2:C:173:PRO:O	3:D:1682:LYS:C	2.48	0.56
3:D:1664:ASP:C	3:D:1667:ALA:H	2.12	0.56
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
4:R:493:HIS:CB	4:R:493:HIS:C	2.60	0.56
2:C:173:PRO:O	3:D:1682:LYS:C	2.48	0.56
3:D:1664:ASP:C	3:D:1667:ALA:H	2.12	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
4:R:493:HIS:CB	4:R:493:HIS:C	2.60	0.56
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
4:R:493:HIS:CB	4:R:493:HIS:C	2.60	0.56
2:C:303:ALA:C	1:Q:849:ASN:N	2.56	0.56
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.56
4:R:235:ASP:CB	4:R:235:ASP:C	2.68	0.56
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.56
4:R:453:TYR:O	4:R:455:ILE:CA	2.53	0.56
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.56
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.56
4:F:453:TYR:O	4:F:455:ILE:CA	2.53	0.56
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.56
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.56
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.56
2:C:299:ILE:CA	1:Q:845:TYR:O	2.52	0.56
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.56
2:C:299:ILE:CA	1:Q:845:TYR:O	2.52	0.56
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.56
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.56
2:C:306:PRO:N	1:Q:849:ASN:CB	2.61	0.56
2:C:487:CYS:H	3:D:1661:ARG:CB	2.11	0.56
1:E:1165:TYR:HA	1:K:727:PHE:CB	2.29	0.56
2:I:620:GLY:N	3:J:1446:LYS:N	2.46	0.56
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.56
3:J:1664:ASP:C	3:J:1667:ALA:H	2.12	0.56
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.56
1:Q:1309:SER:N	3:V:733:ASP:CA	2.31	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
1:E:1239:ASP:CB	1:K:572:ALA:HA	2.35	0.56
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.56
2:O:173:PRO:CB	3:P:1681:SER:CA	2.83	0.56
2:O:785:LEU:CA	1:W:131:GLY:O	2.53	0.56
1:Q:1239:ASP:CB	1:W:572:ALA:HA	2.36	0.56
4:R:449:SER:O	4:R:452:ARG:N	2.38	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
1:E:1239:ASP:CB	1:K:572:ALA:HA	2.35	0.56
4:F:454:TYR:CB	4:F:454:TYR:H	2.10	0.56
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.56
2:O:173:PRO:CB	3:P:1681:SER:CA	2.83	0.56
2:O:785:LEU:CA	1:W:131:GLY:O	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1239:ASP:CB	1:W:572:ALA:HA	2.36	0.56
4:R:449:SER:O	4:R:452:ARG:N	2.38	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.56
1:E:1239:ASP:CB	1:K:572:ALA:HA	2.35	0.56
2:O:173:PRO:CB	3:P:1681:SER:CA	2.83	0.56
2:O:785:LEU:CA	1:W:131:GLY:O	2.53	0.56
1:Q:1239:ASP:CB	1:W:572:ALA:HA	2.36	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.56
1:E:1239:ASP:CB	1:K:572:ALA:HA	2.35	0.56
2:O:523:LEU:H	3:P:1662:CYS:HA	1.68	0.56
2:O:785:LEU:CA	1:W:131:GLY:O	2.53	0.56
1:Q:1239:ASP:CB	1:W:572:ALA:HA	2.36	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.56
2:O:523:LEU:H	3:P:1662:CYS:HA	1.68	0.56
2:O:785:LEU:CA	1:W:131:GLY:O	2.53	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
4:L:453:TYR:O	4:L:455:ILE:CA	2.53	0.56
2:O:173:PRO:CB	3:P:1681:SER:CA	2.83	0.56
2:O:785:LEU:CA	1:W:131:GLY:O	2.53	0.56
2:U:483:GLU:HA	2:U:484:ARG:N	2.20	0.56
4:X:453:TYR:O	4:X:455:ILE:CA	2.53	0.56
2:C:676:ALA:O	1:K:846:ILE:O	2.21	0.56
1:E:1165:TYR:HA	1:K:727:PHE:HA	0.58	0.56
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.56
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.56
3:V:744:PHE:C	3:V:746:ARG:HA	2.31	0.56
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.56
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.56
3:V:744:PHE:C	3:V:746:ARG:HA	2.31	0.56
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.56
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.56
3:V:744:PHE:C	3:V:746:ARG:HA	2.31	0.56
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.56
2:O:173:PRO:CB	3:P:1681:SER:O	2.53	0.56
3:V:744:PHE:C	3:V:746:ARG:HA	2.31	0.56
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.56
2:O:173:PRO:CB	3:P:1681:SER:O	2.53	0.56
3:V:744:PHE:C	3:V:746:ARG:HA	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1489:HIS:O	3:J:1491:ILE:N	2.38	0.56
3:P:1448:MET:C	3:P:1450:GLU:HA	2.29	0.56
3:V:744:PHE:C	3:V:746:ARG:HA	2.31	0.56
2:C:306:PRO:C	1:Q:849:ASN:CB	2.76	0.56
2:C:681:ALA:HB3	1:K:850:ALA:CB	2.35	0.56
2:C:726:SER:HA	1:K:85:ARG:CB	2.34	0.56
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.56
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.56
2:U:739:ASP:H	3:V:1454:ALA:HB2	1.56	0.56
2:C:726:SER:HA	1:K:85:ARG:CB	2.34	0.56
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.56
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.56
2:U:739:ASP:H	3:V:1454:ALA:HB2	1.56	0.56
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.56
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.56
2:C:726:SER:HA	1:K:85:ARG:CB	2.34	0.56
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.56
2:U:739:ASP:H	3:V:1454:ALA:HB2	1.56	0.56
2:C:523:LEU:CA	3:D:1662:CYS:HA	2.36	0.56
2:C:726:SER:HA	1:K:85:ARG:CB	2.34	0.56
2:U:739:ASP:H	3:V:1454:ALA:HB2	1.56	0.56
2:C:523:LEU:CA	3:D:1662:CYS:HA	2.36	0.56
2:C:726:SER:HA	1:K:85:ARG:CB	2.34	0.56
2:U:739:ASP:H	3:V:1454:ALA:HB2	1.56	0.56
2:C:726:SER:HA	1:K:85:ARG:CB	2.34	0.56
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.56
2:U:739:ASP:H	3:V:1454:ALA:HB2	1.56	0.56
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.56
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
4:L:454:TYR:CB	4:L:454:TYR:H	2.10	0.56
2:O:483:GLU:HA	2:O:484:ARG:N	2.20	0.56
4:X:458:ASP:O	4:X:459:LEU:C	2.45	0.56
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.56
3:J:744:PHE:C	3:J:746:ARG:HA	2.31	0.56
2:O:303:ALA:HB1	2:O:306:PRO:HA	1.87	0.56
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.56
3:J:744:PHE:C	3:J:746:ARG:HA	2.31	0.56
2:O:303:ALA:HB1	2:O:306:PRO:HA	1.87	0.56
4:X:449:SER:O	4:X:452:ARG:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:744:PHE:C	3:J:746:ARG:HA	2.31	0.56
2:O:303:ALA:HB1	2:O:306:PRO:HA	1.87	0.56
3:D:744:PHE:C	3:D:746:ARG:HA	2.30	0.56
3:J:744:PHE:C	3:J:746:ARG:HA	2.31	0.56
2:O:303:ALA:HB1	2:O:306:PRO:HA	1.87	0.56
3:D:744:PHE:C	3:D:746:ARG:HA	2.30	0.56
3:J:744:PHE:C	3:J:746:ARG:HA	2.31	0.56
2:O:303:ALA:HB1	2:O:306:PRO:HA	1.87	0.56
3:J:744:PHE:C	3:J:746:ARG:HA	2.31	0.56
2:O:303:ALA:HB1	2:O:306:PRO:HA	1.87	0.56
4:X:449:SER:O	4:X:452:ARG:N	2.38	0.56
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.56
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.56
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.56
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.56
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.56
3:P:1504:VAL:O	3:P:1505:SER:C	2.39	0.56
3:P:1504:VAL:O	3:P:1505:SER:C	2.39	0.56
4:R:449:SER:O	4:R:452:ARG:N	2.38	0.56
4:X:222:THR:C	4:X:247:ARG:H	2.14	0.56
4:X:449:SER:O	4:X:452:ARG:N	2.39	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.56
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.56
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.56
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.56
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.56
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.56
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.56
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.56
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.56
2:C:483:GLU:HA	2:C:484:ARG:N	2.21	0.56
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.56
6:T:380:GLU:C	6:T:381:LYS:CA	2.72	0.56
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.56
4:L:483:ASP:CB	4:L:483:ASP:N	2.60	0.56
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.56
2:C:303:ALA:HB1	2:C:306:PRO:HA	1.87	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.56
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.56
2:C:303:ALA:HB1	2:C:306:PRO:HA	1.87	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.56
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.56
2:C:303:ALA:HB1	2:C:306:PRO:HA	1.87	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.56
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.56
2:C:303:ALA:HB1	2:C:306:PRO:HA	1.87	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.56
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.56
2:C:303:ALA:HB1	2:C:306:PRO:HA	1.87	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.56
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.56
2:C:303:ALA:HB1	2:C:306:PRO:HA	1.87	0.56
2:I:483:GLU:HA	2:I:484:ARG:N	2.21	0.56
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.56
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.56
2:C:306:PRO:CA	1:Q:849:ASN:CA	2.70	0.56
2:C:531:LEU:C	3:D:1664:ASP:N	2.62	0.56
4:L:222:THR:C	4:L:247:ARG:H	2.14	0.56
2:U:617:GLU:CB	3:V:1446:LYS:CB	2.84	0.56
3:V:644:ALA:HA	3:V:706:ALA:HB2	1.84	0.56
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.56
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.56
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.56
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.56
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.56
5:G:379:HIS:N	5:G:379:HIS:HA	2.05	0.56
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.56
4:X:493:HIS:CB	4:X:493:HIS:C	2.61	0.56
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.56
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.56
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.56
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.56
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.56
3:D:1489:HIS:O	3:D:1491:ILE:N	2.38	0.56
3:P:1489:HIS:O	3:P:1491:ILE:N	2.38	0.56
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.56
4:X:493:HIS:CB	4:X:493:HIS:C	2.61	0.56
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.55
1:Q:1306:LEU:O	3:V:733:ASP:N	2.37	0.55
2:C:173:PRO:CB	3:D:1681:SER:CA	2.83	0.55
1:E:847:ARG:CB	2:O:305:LEU:CA	2.85	0.55
2:O:174:GLY:HA2	3:P:1682:LYS:CA	2.34	0.55
2:O:483:GLU:HA	2:O:484:ARG:N	2.21	0.55
2:O:590:ASP:CB	1:W:848:ASP:H	2.19	0.55
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.55
2:C:173:PRO:CB	3:D:1681:SER:CA	2.83	0.55
1:E:847:ARG:CB	2:O:305:LEU:CA	2.85	0.55
2:O:174:GLY:HA2	3:P:1682:LYS:CA	2.34	0.55
2:O:483:GLU:HA	2:O:484:ARG:N	2.21	0.55
2:O:590:ASP:CB	1:W:848:ASP:H	2.19	0.55
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
2:C:173:PRO:CB	3:D:1681:SER:CA	2.83	0.55
1:E:847:ARG:CB	2:O:305:LEU:CA	2.85	0.55
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.55
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.55
2:O:174:GLY:HA2	3:P:1682:LYS:CA	2.34	0.55
2:O:483:GLU:HA	2:O:484:ARG:N	2.21	0.55
2:O:590:ASP:CB	1:W:848:ASP:H	2.19	0.55
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.55
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.55
1:E:847:ARG:CB	2:O:305:LEU:CA	2.85	0.55
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.55
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.55
2:O:483:GLU:HA	2:O:484:ARG:N	2.21	0.55
2:O:590:ASP:CB	1:W:848:ASP:H	2.19	0.55
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.55
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.55
2:O:483:GLU:HA	2:O:484:ARG:N	2.21	0.55
2:O:590:ASP:CB	1:W:848:ASP:H	2.19	0.55
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.55
2:C:173:PRO:CB	3:D:1681:SER:CA	2.83	0.55
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.55
4:F:449:SER:O	4:F:452:ARG:N	2.38	0.55
2:O:174:GLY:HA2	3:P:1682:LYS:CA	2.34	0.55
2:O:483:GLU:HA	2:O:484:ARG:N	2.21	0.55
2:O:590:ASP:CB	1:W:848:ASP:H	2.19	0.55
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.55
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.55
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.55
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.55
3:P:744:PHE:C	3:P:746:ARG:HA	2.31	0.55
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.55
4:X:449:SER:O	4:X:452:ARG:N	2.39	0.55
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.55
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.55
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.55
3:P:744:PHE:C	3:P:746:ARG:HA	2.31	0.55
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.55
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.55
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.55
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.55
3:P:744:PHE:C	3:P:746:ARG:HA	2.31	0.55
4:X:449:SER:O	4:X:452:ARG:N	2.39	0.55
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.55
2:O:523:LEU:CA	3:P:1662:CYS:HA	2.36	0.55
4:X:449:SER:O	4:X:452:ARG:N	2.39	0.55
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.55
2:O:523:LEU:CA	3:P:1662:CYS:HA	2.36	0.55
4:X:449:SER:O	4:X:452:ARG:N	2.39	0.55
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.55
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.55
3:P:744:PHE:C	3:P:746:ARG:HA	2.31	0.55
4:X:454:TYR:CB	4:X:454:TYR:H	2.10	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1448:MET:C	3:D:1450:GLU:HA	2.29	0.55
2:I:618:ASN:O	3:J:1445:LYS:N	2.39	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.55
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.55
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.55
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.55
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.55
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.55
2:C:523:LEU:CB	3:D:1662:CYS:HA	2.37	0.55
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.55
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.55
2:O:173:PRO:CA	3:P:1682:LYS:HA	2.30	0.55
3:P:744:PHE:C	3:P:746:ARG:HA	2.31	0.55
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.55
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.55
2:C:523:LEU:CB	3:D:1662:CYS:HA	2.37	0.55
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.55
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.55
2:O:173:PRO:CA	3:P:1682:LYS:HA	2.30	0.55
3:P:744:PHE:C	3:P:746:ARG:HA	2.31	0.55
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.55
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.55
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:380:GLU:C	6:H:381:LYS:CA	2.72	0.55
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.55
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.55
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.55
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.55
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
2:O:726:SER:CB	1:W:86:ARG:N	2.69	0.55
2:O:726:SER:CB	1:W:86:ARG:N	2.69	0.55
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
2:O:726:SER:CB	1:W:86:ARG:N	2.69	0.55
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
2:O:726:SER:CB	1:W:86:ARG:N	2.69	0.55
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
2:O:726:SER:CB	1:W:86:ARG:N	2.69	0.55
4:F:452:ARG:C	4:F:453:TYR:C	2.74	0.55
2:O:726:SER:CB	1:W:86:ARG:N	2.69	0.55
1:K:205:LEU:O	1:K:207:SER:HA	2.06	0.55
1:W:205:LEU:O	1:W:207:SER:HA	2.06	0.55
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.55
3:D:744:PHE:C	3:D:746:ARG:HA	2.31	0.55
2:O:778:ILE:O	1:W:122:ASP:HA	2.07	0.55
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.55
3:D:744:PHE:C	3:D:746:ARG:HA	2.31	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
2:O:778:ILE:O	1:W:122:ASP:HA	2.07	0.55
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.55
3:D:744:PHE:C	3:D:746:ARG:HA	2.31	0.55
2:O:778:ILE:O	1:W:122:ASP:HA	2.07	0.55
4:R:449:SER:O	4:R:452:ARG:N	2.39	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.55
3:D:70:ALA:HB1	3:D:86:LEU:O	2.07	0.55
2:O:778:ILE:O	1:W:122:ASP:HA	2.07	0.55
3:P:70:ALA:HB1	3:P:86:LEU:O	2.07	0.55
4:R:449:SER:O	4:R:452:ARG:N	2.39	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.55
3:D:70:ALA:HB1	3:D:86:LEU:O	2.07	0.55
2:O:778:ILE:O	1:W:122:ASP:HA	2.07	0.55
3:P:70:ALA:HB1	3:P:86:LEU:O	2.07	0.55
4:R:449:SER:O	4:R:452:ARG:N	2.39	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
1:A:205:LEU:O	1:A:207:SER:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:744:PHE:C	3:D:746:ARG:HA	2.31	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
2:O:778:ILE:O	1:W:122:ASP:HA	2.07	0.55
4:R:449:SER:O	4:R:452:ARG:N	2.39	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
2:O:783:SER:CB	1:W:91:PRO:CB	2.85	0.55
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.55
2:C:174:GLY:HA2	3:D:1682:LYS:CA	2.34	0.55
2:C:779:GLU:HA	1:K:123:ILE:H	1.72	0.55
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.55
2:C:174:GLY:HA2	3:D:1682:LYS:CA	2.34	0.55
2:C:779:GLU:HA	1:K:123:ILE:H	1.72	0.55
4:F:493:HIS:CB	4:F:493:HIS:C	2.61	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.55
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.55
2:C:174:GLY:HA2	3:D:1682:LYS:CA	2.34	0.55
2:C:779:GLU:HA	1:K:123:ILE:H	1.72	0.55
2:C:779:GLU:HA	1:K:123:ILE:H	1.72	0.55
2:C:779:GLU:HA	1:K:123:ILE:H	1.72	0.55
2:C:174:GLY:HA2	3:D:1682:LYS:CA	2.34	0.55
2:C:779:GLU:HA	1:K:123:ILE:H	1.72	0.55
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.55
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.55
4:L:399:SER:O	4:L:400:GLY:HA3	2.00	0.55
4:L:452:ARG:C	4:L:453:TYR:C	2.74	0.55
5:M:313:ILE:O	5:M:316:ALA:HB3	2.07	0.55
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.55
3:P:70:ALA:HB1	3:P:86:LEU:O	2.07	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.55
3:P:70:ALA:HB1	3:P:86:LEU:O	2.07	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.55
3:P:70:ALA:HB1	3:P:86:LEU:O	2.07	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
5:Y:313:ILE:O	5:Y:316:ALA:HB3	2.07	0.55
3:P:70:ALA:HB1	3:P:86:LEU:O	2.07	0.55
2:U:303:ALA:HB1	2:U:306:PRO:HA	1.87	0.55
1:E:1361:LEU:CB	3:J:880:GLU:N	2.69	0.55
5:G:345:TYR:C	5:G:348:ILE:H	2.14	0.55
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.55
3:D:70:ALA:HB1	3:D:86:LEU:O	2.07	0.55
1:E:849:ASN:C	2:O:304:PRO:N	2.65	0.55
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.55
3:D:70:ALA:HB1	3:D:86:LEU:O	2.07	0.55
1:E:849:ASN:C	2:O:304:PRO:N	2.65	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.55
3:D:70:ALA:HB1	3:D:86:LEU:O	2.07	0.55
1:E:849:ASN:C	2:O:304:PRO:N	2.65	0.55
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.55
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.55
1:E:849:ASN:C	2:O:304:PRO:N	2.65	0.55
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.55
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.55
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.55
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.55
1:B:205:LEU:O	1:B:207:SER:HA	2.06	0.55
3:D:70:ALA:HB1	3:D:86:LEU:O	2.07	0.55
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.55
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.55
2:C:522:CYS:CB	3:D:1663:GLN:O	2.55	0.55
2:C:679:ILE:O	1:K:850:ALA:O	2.24	0.55
1:Q:1355:ASP:C	3:V:872:LEU:HA	2.30	0.55
4:X:452:ARG:C	4:X:453:TYR:C	2.74	0.55
2:C:305:LEU:N	1:Q:847:ARG:CB	2.69	0.55
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.55
1:K:860:GLN:C	1:K:871:ASP:CB	2.80	0.55
2:O:781:ARG:N	1:W:136:TYR:CA	2.66	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:305:LEU:N	1:Q:847:ARG:CB	2.69	0.55
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.55
1:K:860:GLN:C	1:K:871:ASP:CB	2.80	0.55
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.55
2:O:781:ARG:N	1:W:136:TYR:CA	2.66	0.55
2:C:305:LEU:N	1:Q:847:ARG:CB	2.69	0.55
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.55
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.55
1:K:860:GLN:C	1:K:871:ASP:CB	2.80	0.55
2:O:781:ARG:N	1:W:136:TYR:CA	2.66	0.55
2:C:305:LEU:N	1:Q:847:ARG:CB	2.69	0.55
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.55
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.55
1:K:860:GLN:C	1:K:871:ASP:CB	2.80	0.55
2:O:781:ARG:N	1:W:136:TYR:CA	2.66	0.55
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.55
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.55
1:K:860:GLN:C	1:K:871:ASP:CB	2.80	0.55
2:O:781:ARG:N	1:W:136:TYR:CA	2.66	0.55
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.55
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.55
1:K:860:GLN:C	1:K:871:ASP:CB	2.80	0.55
4:L:458:ASP:O	4:L:459:LEU:C	2.45	0.55
2:O:781:ARG:N	1:W:136:TYR:CA	2.66	0.55
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.55
3:D:1472:SER:CB	3:P:1474:GLY:C	2.78	0.55
1:E:1232:SER:C	1:K:579:GLU:CB	2.80	0.55
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
2:O:590:ASP:CB	1:W:851:ALA:CB	2.85	0.55
2:O:726:SER:HA	1:W:85:ARG:CB	2.37	0.55
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.55
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.55
3:D:1472:SER:CB	3:P:1474:GLY:C	2.78	0.55
1:E:1232:SER:C	1:K:579:GLU:CB	2.80	0.55
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.55
2:O:590:ASP:CB	1:W:851:ALA:CB	2.85	0.55
2:O:726:SER:HA	1:W:85:ARG:CB	2.37	0.55
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.55
4:R:450:GLU:C	4:R:451:GLU:C	2.73	0.55
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:SER:CB	3:P:1474:GLY:C	2.78	0.55
1:E:1232:SER:C	1:K:579:GLU:CB	2.80	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
2:O:590:ASP:CB	1:W:851:ALA:CB	2.85	0.55
2:O:726:SER:HA	1:W:85:ARG:CB	2.37	0.55
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.55
1:E:1232:SER:C	1:K:579:GLU:CB	2.80	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
2:O:590:ASP:CB	1:W:851:ALA:CB	2.85	0.55
2:O:726:SER:HA	1:W:85:ARG:CB	2.37	0.55
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.55
5:M:345:TYR:C	5:M:348:ILE:H	2.14	0.55
2:O:590:ASP:CB	1:W:851:ALA:CB	2.85	0.55
2:O:726:SER:HA	1:W:85:ARG:CB	2.37	0.55
3:D:1472:SER:CB	3:P:1474:GLY:C	2.78	0.55
2:O:590:ASP:CB	1:W:851:ALA:CB	2.85	0.55
2:O:726:SER:HA	1:W:85:ARG:CB	2.37	0.55
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.55
1:E:1218:GLN:CB	3:J:679:PRO:CB	2.85	0.54
4:F:222:THR:C	4:F:247:ARG:H	2.14	0.54
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.54
4:R:452:ARG:C	4:R:453:TYR:C	2.74	0.54
5:S:345:TYR:C	5:S:348:ILE:H	2.14	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.32	0.54
1:W:860:GLN:C	1:W:871:ASP:CB	2.80	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.32	0.54
1:W:860:GLN:C	1:W:871:ASP:CB	2.80	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.32	0.54
1:W:860:GLN:C	1:W:871:ASP:CB	2.80	0.54
2:O:174:GLY:N	3:P:1682:LYS:HA	2.16	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.32	0.54
1:W:860:GLN:C	1:W:871:ASP:CB	2.80	0.54
2:O:174:GLY:N	3:P:1682:LYS:HA	2.16	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.32	0.54
1:W:860:GLN:C	1:W:871:ASP:CB	2.80	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.32	0.54
1:W:860:GLN:C	1:W:871:ASP:CB	2.80	0.54
4:F:404:GLN:O	4:F:405:ALA:CB	2.55	0.54
2:O:447:ASP:C	2:O:448:TYR:HA	2.33	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.54
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.54
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.54
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.54
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.54
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.54
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.54
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
2:C:447:ASP:C	2:C:448:TYR:HA	2.32	0.54
2:I:303:ALA:HB1	2:I:306:PRO:HA	1.87	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.54
4:L:449:SER:O	4:L:452:ARG:N	2.38	0.54
1:Q:1320:PRO:N	3:V:722:ASN:CB	2.69	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.55	0.54
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.54
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.54
4:L:493:HIS:CB	4:L:493:HIS:C	2.61	0.54
4:F:399:SER:O	4:F:400:GLY:HA3	2.00	0.54
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.54
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.54
4:L:493:HIS:CB	4:L:493:HIS:C	2.61	0.54
4:L:493:HIS:CB	4:L:493:HIS:C	2.61	0.54
4:L:493:HIS:CB	4:L:493:HIS:C	2.61	0.54
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.54
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.54
1:Q:205:LEU:O	1:Q:207:SER:HA	2.06	0.54
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.54
1:E:205:LEU:O	1:E:207:SER:HA	2.06	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.55	0.54
2:O:784:GLN:CB	1:W:132:GLY:N	2.70	0.54
1:Q:1366:SER:N	3:V:878:PRO:O	2.40	0.54
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.54
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.54
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.54
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.54
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.54
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
5:Y:345:TYR:C	5:Y:348:ILE:H	2.14	0.54
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.54
6:H:406:LEU:HA	6:H:409:PRO:N	2.22	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.56	0.54
1:E:1301:GLU:CB	3:J:877:CYS:CB	2.86	0.54
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.54
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.55	0.54
3:P:1489:HIS:C	3:P:1491:ILE:N	2.61	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.54
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.54
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.56	0.54
3:V:70:ALA:HB1	3:V:86:LEU:O	2.07	0.54
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.54
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.54
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.56	0.54
3:V:70:ALA:HB1	3:V:86:LEU:O	2.07	0.54
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.54
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.56	0.54
3:V:70:ALA:HB1	3:V:86:LEU:O	2.07	0.54
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.56	0.54
3:V:70:ALA:HB1	3:V:86:LEU:O	2.07	0.54
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.56	0.54
1:Q:1305:GLN:HA	3:V:174:THR:HA	1.90	0.54
3:V:70:ALA:HB1	3:V:86:LEU:O	2.07	0.54
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.54
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.54
2:O:483:GLU:N	2:O:484:ARG:N	2.56	0.54
1:Q:1305:GLN:HA	3:V:174:THR:HA	1.90	0.54
3:V:70:ALA:HB1	3:V:86:LEU:O	2.07	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
1:Q:1357:VAL:O	3:V:877:CYS:C	2.50	0.54
1:Q:1365:GLN:N	3:V:880:GLU:H	2.06	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.55	0.54
3:D:1476:ALA:N	3:P:1476:ALA:HB2	2.22	0.54
3:J:70:ALA:HB1	3:J:86:LEU:O	2.07	0.54
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.54
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.55	0.54
3:D:1476:ALA:N	3:P:1476:ALA:HB2	2.22	0.54
3:J:70:ALA:HB1	3:J:86:LEU:O	2.07	0.54
4:R:404:GLN:O	4:R:405:ALA:CB	2.55	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.55	0.54
3:D:1476:ALA:N	3:P:1476:ALA:HB2	2.22	0.54
3:J:70:ALA:HB1	3:J:86:LEU:O	2.07	0.54
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.54
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.55	0.54
3:J:70:ALA:HB1	3:J:86:LEU:O	2.07	0.54
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.54
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:173:PRO:O	3:P:1682:LYS:C	2.50	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.55	0.54
1:E:1305:GLN:HA	3:J:174:THR:HA	1.90	0.54
3:J:70:ALA:HB1	3:J:86:LEU:O	2.07	0.54
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.54
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.54
2:O:173:PRO:O	3:P:1682:LYS:C	2.50	0.54
2:C:483:GLU:N	2:C:484:ARG:N	2.55	0.54
3:D:1476:ALA:N	3:P:1476:ALA:HB2	2.22	0.54
1:E:1305:GLN:HA	3:J:174:THR:HA	1.90	0.54
3:J:70:ALA:HB1	3:J:86:LEU:O	2.07	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.54
2:C:590:ASP:CB	1:K:851:ALA:CB	2.85	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
2:C:590:ASP:CB	1:K:851:ALA:CB	2.85	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
2:C:590:ASP:CB	1:K:851:ALA:CB	2.85	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
2:C:590:ASP:CB	1:K:851:ALA:CB	2.85	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
2:C:590:ASP:CB	1:K:851:ALA:CB	2.85	0.54
6:Z:406:LEU:HA	6:Z:409:PRO:N	2.22	0.54
2:C:590:ASP:CB	1:K:851:ALA:CB	2.85	0.54
4:L:457:ALA:C	4:L:459:LEU:N	2.66	0.54
1:E:1311:ASP:CA	3:J:798:TYR:C	2.76	0.54
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.54
4:R:222:THR:C	4:R:247:ARG:H	2.14	0.54
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.54
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.54
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.54
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.54
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.54
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.54
5:S:313:ILE:O	5:S:316:ALA:HB3	2.07	0.54
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.54
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.54
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.54
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.54
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.54
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:404:GLN:O	4:X:405:ALA:CB	2.55	0.54
3:V:1489:HIS:C	3:V:1491:ILE:N	2.61	0.54
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.56	0.54
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.56	0.54
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.54
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.54
4:R:399:SER:O	4:R:400:GLY:HA3	2.00	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.56	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.56	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.56	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
2:I:234:LEU:C	2:I:252:MET:HA	2.33	0.54
2:I:483:GLU:N	2:I:484:ARG:N	2.56	0.54
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.54
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.54
6:T:406:LEU:HA	6:T:409:PRO:N	2.22	0.54
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.54
1:E:181:ALA:O	1:E:196:GLY:HA2	2.08	0.54
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.54
5:G:313:ILE:O	5:G:316:ALA:HB3	2.07	0.54
2:O:234:LEU:C	2:O:252:MET:HA	2.33	0.54
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.54
2:C:786:ARG:CB	1:K:92:GLU:H	2.16	0.54
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.54
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.54
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:483:GLU:N	2:U:484:ARG:N	2.56	0.54
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.54
2:C:786:ARG:CB	1:K:92:GLU:H	2.16	0.54
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.54
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.54
4:L:485:LEU:HA	4:L:488:ILE:CB	2.38	0.54
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.08	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.56	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.54
2:C:786:ARG:CB	1:K:92:GLU:H	2.16	0.54
4:F:485:LEU:HA	4:F:488:ILE:CB	2.38	0.54
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.54
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.08	0.54
4:R:485:LEU:HA	4:R:488:ILE:CB	2.38	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.56	0.54
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.54
2:C:786:ARG:CB	1:K:92:GLU:H	2.16	0.54
4:F:485:LEU:HA	4:F:488:ILE:CB	2.38	0.54
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.54
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.08	0.54
4:R:485:LEU:HA	4:R:488:ILE:CB	2.38	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.56	0.54
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.54
2:C:786:ARG:CB	1:K:92:GLU:H	2.16	0.54
4:F:485:LEU:HA	4:F:488:ILE:CB	2.38	0.54
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.54
4:R:485:LEU:HA	4:R:488:ILE:CB	2.38	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.56	0.54
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.54
2:C:786:ARG:CB	1:K:92:GLU:H	2.16	0.54
4:F:485:LEU:HA	4:F:488:ILE:CB	2.38	0.54
3:J:1448:MET:C	3:J:1450:GLU:HA	2.29	0.54
4:L:485:LEU:HA	4:L:488:ILE:CB	2.38	0.54
4:R:485:LEU:HA	4:R:488:ILE:CB	2.38	0.54
2:U:483:GLU:N	2:U:484:ARG:N	2.56	0.54
4:X:450:GLU:C	4:X:451:GLU:C	2.73	0.54
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.54
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.53
2:O:589:ASN:O	1:W:850:ALA:CA	2.52	0.53
4:R:485:LEU:HA	4:R:488:ILE:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.53
2:I:740:GLU:H	3:J:1454:ALA:HA	1.73	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.08	0.53
2:I:740:GLU:H	3:J:1454:ALA:HA	1.73	0.53
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.08	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.53
2:I:740:GLU:H	3:J:1454:ALA:HA	1.73	0.53
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.53
2:I:740:GLU:H	3:J:1454:ALA:HA	1.73	0.53
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.53
2:I:740:GLU:H	3:J:1454:ALA:HA	1.73	0.53
4:F:457:ALA:C	4:F:459:LEU:N	2.66	0.53
2:I:740:GLU:H	3:J:1454:ALA:HA	1.73	0.53
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.08	0.53
3:D:1489:HIS:C	3:D:1491:ILE:N	2.61	0.53
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.32	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
1:E:181:ALA:O	1:E:196:GLY:HA2	2.09	0.53
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.53
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.53
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.53
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.53
4:R:485:LEU:HA	4:R:488:ILE:CB	2.38	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
1:E:181:ALA:O	1:E:196:GLY:HA2	2.09	0.53
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.53
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.53
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.53
4:R:485:LEU:HA	4:R:488:ILE:CB	2.38	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.53
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
1:E:181:ALA:O	1:E:196:GLY:HA2	2.09	0.53
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.53
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.53
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.53
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
1:E:181:ALA:O	1:E:196:GLY:HA2	2.09	0.53
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.53
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.53
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.53
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
1:E:1348:ARG:N	1:K:957:GLU:H	2.05	0.53
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.53
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.53
6:N:406:LEU:HA	6:N:409:PRO:N	2.22	0.53
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
1:E:1348:ARG:N	1:K:957:GLU:H	2.05	0.53
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.53
4:L:329:GLY:N	4:L:329:GLY:C	2.62	0.53
4:R:457:ALA:C	4:R:459:LEU:N	2.66	0.53
2:U:447:ASP:C	2:U:448:TYR:HA	2.33	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.53
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.53
2:C:234:LEU:C	2:C:252:MET:HA	2.33	0.53
2:C:306:PRO:CB	1:Q:848:ASP:C	2.74	0.53
4:L:367:THR:C	4:L:367:THR:CB	2.78	0.53
4:L:404:GLN:O	4:L:405:ALA:HB2	2.08	0.53
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.09	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.09	0.53
2:C:305:LEU:CA	1:Q:847:ARG:CB	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.53
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.53
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.09	0.53
2:C:305:LEU:CA	1:Q:847:ARG:CB	2.86	0.53
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:404:GLN:O	4:L:405:ALA:HB2	2.09	0.53
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.53
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.53
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.09	0.53
2:C:305:LEU:CA	1:Q:847:ARG:CB	2.86	0.53
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.53
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.09	0.53
2:C:305:LEU:CA	1:Q:847:ARG:CB	2.86	0.53
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.53
2:O:173:PRO:O	3:P:1682:LYS:CB	2.56	0.53
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.09	0.53
1:E:181:ALA:O	1:E:196:GLY:HA2	2.09	0.53
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:404:GLN:O	4:L:405:ALA:CB	2.55	0.53
2:O:173:PRO:O	3:P:1682:LYS:CB	2.56	0.53
1:Q:1348:ARG:N	1:W:957:GLU:H	2.05	0.53
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.53
1:A:181:ALA:O	1:A:196:GLY:HA2	2.09	0.53
1:E:181:ALA:O	1:E:196:GLY:HA2	2.09	0.53
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.53
1:K:181:ALA:O	1:K:196:GLY:HA2	2.08	0.53
4:L:404:GLN:O	4:L:405:ALA:HB2	2.09	0.53
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.53
1:Q:1348:ARG:N	1:W:957:GLU:H	2.05	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1448:MET:C	3:V:1450:GLU:HA	2.29	0.53
4:L:485:LEU:HA	4:L:488:ILE:CB	2.38	0.53
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.53
2:U:640:GLU:O	3:V:1453:THR:CB	2.56	0.53
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.53
3:P:887:ASN:O	6:T:405:ASP:O	2.11	0.53
2:U:740:GLU:H	3:V:1454:ALA:HA	1.73	0.53
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.53
3:P:887:ASN:O	6:T:405:ASP:O	2.11	0.53
2:U:740:GLU:H	3:V:1454:ALA:HA	1.73	0.53
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.53
2:U:740:GLU:H	3:V:1454:ALA:HA	1.73	0.53
2:U:740:GLU:H	3:V:1454:ALA:HA	1.73	0.53
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.09	0.53
2:U:740:GLU:H	3:V:1454:ALA:HA	1.73	0.53
1:Q:181:ALA:O	1:Q:196:GLY:HA2	2.09	0.53
2:U:740:GLU:H	3:V:1454:ALA:HA	1.73	0.53
4:X:457:ALA:C	4:X:459:LEU:N	2.66	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
4:F:450:GLU:C	4:F:451:GLU:C	2.73	0.53
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.53
3:J:1489:HIS:C	3:J:1491:ILE:N	2.61	0.53
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.53
2:C:304:PRO:N	1:Q:849:ASN:C	2.66	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.33	0.53
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.53
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.53
2:C:304:PRO:N	1:Q:849:ASN:C	2.66	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.33	0.53
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.53
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.53
2:C:304:PRO:N	1:Q:849:ASN:C	2.66	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.33	0.53
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.53
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.53
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.53
2:C:304:PRO:N	1:Q:849:ASN:C	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:447:ASP:C	2:I:448:TYR:HA	2.33	0.53
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.53
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.53
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.33	0.53
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.53
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.53
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.53
2:I:447:ASP:C	2:I:448:TYR:HA	2.33	0.53
4:L:450:GLU:C	4:L:451:GLU:C	2.73	0.53
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.53
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.53
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.53
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.53
4:F:485:LEU:HA	4:F:488:ILE:CB	2.39	0.53
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.53
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.53
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.53
4:F:485:LEU:HA	4:F:488:ILE:CB	2.39	0.53
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.53
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.53
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.53
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.53
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.53
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.53
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.53
1:B:181:ALA:O	1:B:196:GLY:HA2	2.09	0.53
2:C:306:PRO:CB	1:Q:848:ASP:CB	2.87	0.53
1:Q:1286:ILE:C	3:V:680:SER:CB	2.81	0.53
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.53
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.53
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.53
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.53
4:R:458:ASP:O	4:R:459:LEU:C	2.45	0.53
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.53
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.09	0.53
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.53
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.09	0.53
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.53
4:X:404:GLN:O	4:X:405:ALA:HB2	2.09	0.53
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.53
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.09	0.53
2:U:234:LEU:C	2:U:252:MET:HA	2.33	0.53
4:F:485:LEU:HA	4:F:488:ILE:CB	2.38	0.53
2:C:778:ILE:HA	1:K:139:GLY:N	2.21	0.53
3:D:1510:GLN:C	3:P:1468:ALA:HB3	2.30	0.53
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.53
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.53
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.53
2:C:778:ILE:HA	1:K:139:GLY:N	2.21	0.53
3:D:1510:GLN:C	3:P:1468:ALA:HB3	2.30	0.53
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.53
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.53
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.53
2:C:778:ILE:HA	1:K:139:GLY:N	2.21	0.53
3:D:1510:GLN:C	3:P:1468:ALA:HB3	2.30	0.53
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.53
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.53
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.53
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.53
2:C:778:ILE:HA	1:K:139:GLY:N	2.21	0.53
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.53
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.53
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.53
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.53
2:C:778:ILE:HA	1:K:139:GLY:N	2.21	0.53
1:E:849:ASN:C	2:O:303:ALA:C	2.77	0.53
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.53
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:778:ILE:HA	1:K:139:GLY:N	2.21	0.53
3:D:1510:GLN:C	3:P:1468:ALA:HB3	2.30	0.53
1:E:849:ASN:C	2:O:303:ALA:C	2.77	0.53
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.53
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.53
2:C:534:LEU:CA	3:D:1668:GLY:N	2.70	0.53
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.53
4:X:399:SER:O	4:X:400:GLY:HA3	2.00	0.53
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.53
2:C:174:GLY:HA3	3:D:1682:LYS:CB	2.38	0.53
2:C:304:PRO:N	1:Q:848:ASP:C	2.32	0.53
2:C:590:ASP:O	1:K:849:ASN:CB	2.56	0.53
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.53
4:L:485:LEU:HA	4:L:488:ILE:CB	2.39	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.53
2:C:174:GLY:HA3	3:D:1682:LYS:CB	2.38	0.53
2:C:304:PRO:N	1:Q:848:ASP:C	2.32	0.53
2:C:590:ASP:O	1:K:849:ASN:CB	2.56	0.53
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.53
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.53
2:C:174:GLY:HA3	3:D:1682:LYS:CB	2.38	0.53
2:C:304:PRO:N	1:Q:848:ASP:C	2.32	0.53
2:C:590:ASP:O	1:K:849:ASN:CB	2.56	0.53
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.53
4:L:485:LEU:HA	4:L:488:ILE:CB	2.39	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.53
2:C:173:PRO:O	3:D:1682:LYS:O	2.27	0.53
2:C:304:PRO:N	1:Q:848:ASP:C	2.32	0.53
2:C:590:ASP:O	1:K:849:ASN:CB	2.56	0.53
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.53
4:L:485:LEU:HA	4:L:488:ILE:CB	2.39	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.53
2:C:173:PRO:O	3:D:1682:LYS:O	2.27	0.53
2:C:303:ALA:C	1:Q:849:ASN:C	2.77	0.53
2:C:590:ASP:O	1:K:849:ASN:CB	2.56	0.53
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.53
4:L:485:LEU:HA	4:L:488:ILE:CB	2.39	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CA	2.38	0.53
2:C:174:GLY:HA3	3:D:1682:LYS:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:ALA:C	1:Q:849:ASN:C	2.77	0.53
2:C:590:ASP:O	1:K:849:ASN:CB	2.56	0.53
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.53
4:X:329:GLY:N	4:X:329:GLY:C	2.62	0.53
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.53
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.53
4:R:404:GLN:O	4:R:405:ALA:HB2	2.09	0.53
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.53
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.53
2:C:724:GLN:CB	1:K:508:SER:N	2.72	0.53
3:D:1468:ALA:HB3	3:P:1510:GLN:C	2.30	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
1:W:181:ALA:O	1:W:196:GLY:HA2	2.09	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.53
2:C:724:GLN:CB	1:K:508:SER:N	2.72	0.53
3:D:1468:ALA:HB3	3:P:1510:GLN:C	2.30	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
1:W:181:ALA:O	1:W:196:GLY:HA2	2.09	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.53
2:C:724:GLN:CB	1:K:508:SER:N	2.72	0.53
3:D:1468:ALA:HB3	3:P:1510:GLN:C	2.30	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
1:W:181:ALA:O	1:W:196:GLY:HA2	2.09	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.53
2:C:724:GLN:CB	1:K:508:SER:N	2.72	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
1:W:181:ALA:O	1:W:196:GLY:HA2	2.09	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.53
2:C:724:GLN:CB	1:K:508:SER:N	2.72	0.53
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.53
1:W:181:ALA:O	1:W:196:GLY:HA2	2.09	0.53
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.53
2:C:724:GLN:CB	1:K:508:SER:N	2.72	0.53
3:D:1468:ALA:HB3	3:P:1510:GLN:C	2.30	0.53
1:W:181:ALA:O	1:W:196:GLY:HA2	2.09	0.53
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.17	0.52
4:L:404:GLN:O	4:L:405:ALA:HB2	2.09	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.52
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.52
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.17	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.52
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.17	0.52
4:L:404:GLN:O	4:L:405:ALA:HB2	2.09	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.52
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.52
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.17	0.52
4:L:404:GLN:O	4:L:405:ALA:HB2	2.09	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.52
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.52
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.17	0.52
4:L:404:GLN:O	4:L:405:ALA:HB2	2.09	0.52
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.52
4:X:485:LEU:HA	4:X:488:ILE:CB	2.38	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.17	0.52
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
1:W:22:ALA:HB1	1:W:780:ALA:CB	2.39	0.52
2:C:231:THR:C	2:C:233:VAL:H	2.18	0.52
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.52
1:K:1352:LEU:C	1:K:1354:LEU:H	2.17	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
1:Q:1267:ILE:O	3:V:678:ILE:O	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1273:GLN:H	3:V:727:LEU:C	2.17	0.52
1:Q:1366:SER:CA	3:V:878:PRO:O	2.57	0.52
4:X:198:LYS:C	4:X:200:THR:N	2.58	0.52
2:C:785:LEU:CB	1:K:134:LEU:CB	2.87	0.52
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.52
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.52
2:O:709:ARG:HA	1:W:197:GLY:N	2.24	0.52
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.52
2:C:785:LEU:CB	1:K:134:LEU:CB	2.87	0.52
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.52
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.52
2:O:709:ARG:HA	1:W:197:GLY:N	2.24	0.52
2:C:785:LEU:CB	1:K:134:LEU:CB	2.87	0.52
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.52
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.52
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.52
2:O:709:ARG:HA	1:W:197:GLY:N	2.24	0.52
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.52
2:C:785:LEU:CB	1:K:134:LEU:CB	2.87	0.52
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.52
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.52
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.52
2:O:709:ARG:HA	1:W:197:GLY:N	2.24	0.52
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.52
2:C:785:LEU:CB	1:K:134:LEU:CB	2.87	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.52
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.52
4:L:458:ASP:C	4:L:460:LEU:N	2.66	0.52
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.52
2:O:709:ARG:HA	1:W:197:GLY:N	2.24	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.52
2:C:785:LEU:CB	1:K:134:LEU:CB	2.87	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.52
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.52
4:L:447:VAL:CB	4:L:447:VAL:N	2.62	0.52
2:O:231:THR:C	2:O:233:VAL:H	2.17	0.52
2:O:709:ARG:HA	1:W:197:GLY:N	2.24	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
4:R:447:VAL:CB	4:R:447:VAL:N	2.62	0.52
2:O:676:ALA:O	1:W:796:LYS:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:724:GLN:CB	1:W:508:SER:C	2.81	0.52
2:O:676:ALA:O	1:W:796:LYS:HA	2.09	0.52
2:O:724:GLN:CB	1:W:508:SER:C	2.81	0.52
2:O:676:ALA:O	1:W:796:LYS:HA	2.09	0.52
2:O:724:GLN:CB	1:W:508:SER:C	2.81	0.52
2:O:676:ALA:O	1:W:796:LYS:HA	2.09	0.52
2:O:724:GLN:CB	1:W:508:SER:C	2.81	0.52
2:O:676:ALA:O	1:W:796:LYS:HA	2.09	0.52
2:O:724:GLN:CB	1:W:508:SER:C	2.81	0.52
2:O:676:ALA:O	1:W:796:LYS:HA	2.09	0.52
2:O:724:GLN:CB	1:W:508:SER:C	2.81	0.52
3:J:49:ASP:C	3:J:51:ILE:H	2.18	0.52
4:R:159:ILE:CB	4:R:254:ARG:HA	2.40	0.52
2:C:726:SER:CB	1:K:86:ARG:N	2.72	0.52
1:Q:1233:VAL:CB	1:W:579:GLU:C	2.82	0.52
2:C:726:SER:CB	1:K:86:ARG:N	2.72	0.52
1:Q:1233:VAL:CB	1:W:579:GLU:C	2.82	0.52
2:C:726:SER:CB	1:K:86:ARG:N	2.72	0.52
1:Q:1233:VAL:CB	1:W:579:GLU:C	2.82	0.52
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.52
2:C:726:SER:CB	1:K:86:ARG:N	2.72	0.52
1:Q:1233:VAL:CB	1:W:579:GLU:C	2.82	0.52
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.52
2:C:726:SER:CB	1:K:86:ARG:N	2.72	0.52
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.52
2:C:726:SER:CB	1:K:86:ARG:N	2.72	0.52
5:S:325:ALA:C	5:S:325:ALA:CB	2.77	0.52
3:D:644:ALA:HB2	3:D:702:PRO:C	2.35	0.52
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.52
3:P:644:ALA:HB2	3:P:702:PRO:C	2.35	0.52
2:U:645:LEU:CB	3:V:1450:GLU:C	2.82	0.52
2:U:807:THR:C	2:U:809:ALA:H	2.16	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.52
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.52
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.52
4:X:458:ASP:C	4:X:460:LEU:N	2.66	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
2:I:807:THR:C	2:I:809:ALA:H	2.16	0.52
3:J:644:ALA:HB2	3:J:702:PRO:C	2.35	0.52
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.52
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.52
2:O:653:ILE:CB	3:P:1456:GLU:HA	2.40	0.52
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.52
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.52
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.52
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.16	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
4:F:458:ASP:O	4:F:459:LEU:C	2.45	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.16	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.52
5:G:378:SER:CA	5:G:378:SER:O	2.51	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.16	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.52
5:G:378:SER:CA	5:G:378:SER:O	2.51	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.16	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CB	2.39	0.52
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.52
5:G:378:SER:CA	5:G:378:SER:O	2.51	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.16	0.52
5:G:325:ALA:C	5:G:325:ALA:CB	2.77	0.52
5:G:378:SER:CA	5:G:378:SER:O	2.51	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.16	0.52
1:A:22:ALA:HB1	1:A:780:ALA:CA	2.38	0.52
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.52
4:F:222:THR:O	4:F:246:GLU:HA	2.10	0.52
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.52
2:O:807:THR:C	2:O:809:ALA:H	2.17	0.52
4:X:450:GLU:O	4:X:451:GLU:CA	2.33	0.52
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.52
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.52
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.52
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.52
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.52
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.52
4:F:458:ASP:C	4:F:460:LEU:N	2.66	0.52
4:R:458:ASP:C	4:R:460:LEU:N	2.66	0.52
1:B:22:ALA:HB1	1:B:780:ALA:CB	2.39	0.52
2:O:783:SER:N	1:W:92:GLU:N	2.55	0.52
2:C:302:PRO:C	1:Q:849:ASN:CA	2.78	0.52
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.52
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.52
2:C:302:PRO:C	1:Q:849:ASN:CA	2.78	0.52
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.52
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.52
2:C:302:PRO:C	1:Q:849:ASN:CA	2.78	0.52
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.52
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.52
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.52
2:C:302:PRO:C	1:Q:849:ASN:CA	2.78	0.52
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.52
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.52
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.52
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.52
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.52
5:M:325:ALA:C	5:M:325:ALA:HA	2.15	0.52
4:F:404:GLN:O	4:F:405:ALA:HB2	2.08	0.52
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.52
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.52
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.52
1:K:22:ALA:HB1	1:K:780:ALA:CB	2.39	0.52
1:W:181:ALA:O	1:W:196:GLY:HA2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.52
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.52
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.52
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.52
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.52
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.52
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.52
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.52
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.52
1:E:22:ALA:HB1	1:E:780:ALA:CA	2.38	0.52
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.52
1:Q:22:ALA:HB1	1:Q:780:ALA:CA	2.38	0.52
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.52
4:X:447:VAL:CB	4:X:447:VAL:C	2.77	0.52
2:C:531:LEU:O	3:D:1663:GLN:CA	2.53	0.52
3:D:49:ASP:C	3:D:51:ILE:H	2.18	0.52
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.52
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.52
2:O:174:GLY:HA3	3:P:1682:LYS:CB	2.38	0.52
2:O:778:ILE:HA	1:W:139:GLY:N	2.20	0.52
2:O:779:GLU:CA	1:W:123:ILE:H	2.23	0.52
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.52
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.52
2:O:174:GLY:HA3	3:P:1682:LYS:CB	2.38	0.52
2:O:778:ILE:HA	1:W:139:GLY:N	2.20	0.52
2:O:779:GLU:CA	1:W:123:ILE:H	2.23	0.52
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.52
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.52
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.52
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.52
2:O:174:GLY:HA3	3:P:1682:LYS:CB	2.38	0.52
2:O:778:ILE:HA	1:W:139:GLY:N	2.20	0.52
2:O:779:GLU:CA	1:W:123:ILE:H	2.23	0.52
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.52
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.52
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.52
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.52
2:O:778:ILE:HA	1:W:139:GLY:N	2.20	0.52
2:O:779:GLU:CA	1:W:123:ILE:H	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.52
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.52
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.52
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.52
2:O:778:ILE:HA	1:W:139:GLY:N	2.20	0.52
2:O:779:GLU:CA	1:W:123:ILE:H	2.23	0.52
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.52
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.52
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.52
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.52
4:F:447:VAL:CB	4:F:447:VAL:N	2.62	0.52
2:O:174:GLY:HA3	3:P:1682:LYS:CB	2.38	0.52
2:O:778:ILE:HA	1:W:139:GLY:N	2.20	0.52
2:O:779:GLU:CA	1:W:123:ILE:H	2.23	0.52
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.52
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.52
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:538:LYS:HA	3:D:1671:GLN:C	1.95	0.51
1:E:22:ALA:HB1	1:E:780:ALA:CB	2.39	0.51
1:Q:1265:ASP:N	3:V:687:ILE:O	2.44	0.51
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.51
3:V:1486:CYS:O	3:V:1487:ASP:C	2.50	0.51
1:W:1352:LEU:C	1:W:1354:LEU:H	2.17	0.51
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.51
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.51
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.51
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.51
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.51
1:E:370:PHE:HA	1:E:386:THR:O	2.10	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.51
1:E:1352:LEU:C	1:E:1354:LEU:H	2.17	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.18	0.51
1:Q:370:PHE:HA	1:Q:386:THR:O	2.10	0.51
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.51
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:676:ALA:O	1:K:796:LYS:HA	2.10	0.51
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
2:O:726:SER:CB	1:W:85:ARG:C	2.83	0.51
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:676:ALA:O	1:K:796:LYS:HA	2.10	0.51
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
2:O:726:SER:CB	1:W:85:ARG:C	2.83	0.51
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:676:ALA:O	1:K:796:LYS:HA	2.10	0.51
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
2:O:726:SER:CB	1:W:85:ARG:C	2.83	0.51
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:676:ALA:O	1:K:796:LYS:HA	2.10	0.51
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
2:O:726:SER:CB	1:W:85:ARG:C	2.83	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:676:ALA:O	1:K:796:LYS:HA	2.10	0.51
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
2:O:726:SER:CB	1:W:85:ARG:C	2.83	0.51
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.51
1:A:370:PHE:HA	1:A:386:THR:O	2.10	0.51
2:C:676:ALA:O	1:K:796:LYS:HA	2.10	0.51
2:C:807:THR:C	2:C:809:ALA:H	2.16	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
2:O:726:SER:CB	1:W:85:ARG:C	2.83	0.51
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.51
1:Q:1352:LEU:C	1:Q:1354:LEU:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:370:PHE:HA	1:B:386:THR:O	2.10	0.51
4:R:399:SER:CA	4:R:401:TYR:N	2.73	0.51
6:T:462:GLY:CA	6:T:462:GLY:O	2.50	0.51
4:X:222:THR:O	4:X:246:GLU:HA	2.10	0.51
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.51
3:P:1504:VAL:O	3:P:1505:SER:C	2.38	0.51
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.51
3:P:1504:VAL:O	3:P:1505:SER:C	2.38	0.51
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.51
3:P:1504:VAL:O	3:P:1505:SER:C	2.38	0.51
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.51
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.51
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.51
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
1:K:370:PHE:HA	1:K:386:THR:O	2.10	0.51
3:P:1504:VAL:O	3:P:1505:SER:C	2.38	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.51
3:V:49:ASP:C	3:V:51:ILE:H	2.18	0.51
1:W:340:LYS:C	1:W:342:ILE:HA	2.35	0.51
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.51
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.51
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.51
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.51
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.51
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.51
4:L:490:LEU:O	4:L:493:HIS:N	2.43	0.51
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.51
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.51
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.51
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.51
4:F:490:LEU:O	4:F:493:HIS:N	2.44	0.51
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.51
4:R:490:LEU:O	4:R:493:HIS:N	2.44	0.51
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.51
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.51
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.51
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:490:LEU:O	4:F:493:HIS:N	2.44	0.51
4:R:490:LEU:O	4:R:493:HIS:N	2.44	0.51
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.51
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.51
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.51
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.51
4:F:490:LEU:O	4:F:493:HIS:N	2.44	0.51
4:R:490:LEU:O	4:R:493:HIS:N	2.44	0.51
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.51
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.51
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.51
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.51
4:F:490:LEU:O	4:F:493:HIS:N	2.44	0.51
4:L:490:LEU:O	4:L:493:HIS:N	2.43	0.51
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.51
4:R:490:LEU:O	4:R:493:HIS:N	2.44	0.51
1:W:370:PHE:HA	1:W:386:THR:O	2.10	0.51
1:A:22:ALA:HB1	1:A:780:ALA:CB	2.39	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
2:I:231:THR:C	2:I:233:VAL:H	2.17	0.51
4:L:222:THR:O	4:L:246:GLU:HA	2.10	0.51
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.51
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.51
1:E:1231:ASP:O	1:K:579:GLU:CB	2.59	0.51
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.51
1:E:1231:ASP:O	1:K:579:GLU:CB	2.59	0.51
4:X:490:LEU:O	4:X:493:HIS:N	2.43	0.51
1:E:1231:ASP:O	1:K:579:GLU:CB	2.59	0.51
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.51
4:R:399:SER:CA	4:R:401:TYR:N	2.73	0.51
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.51
1:E:1231:ASP:O	1:K:579:GLU:CB	2.59	0.51
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.51
4:R:399:SER:CA	4:R:401:TYR:N	2.73	0.51
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.51
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.51
4:R:399:SER:CA	4:R:401:TYR:N	2.73	0.51
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.51
4:R:399:SER:CA	4:R:401:TYR:N	2.73	0.51
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.51
4:X:490:LEU:O	4:X:493:HIS:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.51
1:K:22:ALA:HB1	1:K:780:ALA:CA	2.38	0.51
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.51
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.51
3:V:644:ALA:HB2	3:V:702:PRO:C	2.35	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.51
2:I:647:SER:CB	3:J:1451:ARG:CB	2.88	0.51
2:O:711:PHE:CB	1:W:133:ASP:CB	2.89	0.51
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.51
2:I:647:SER:CB	3:J:1451:ARG:CB	2.88	0.51
2:O:711:PHE:CB	1:W:133:ASP:CB	2.89	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
2:I:647:SER:CB	3:J:1451:ARG:CB	2.88	0.51
2:O:711:PHE:CB	1:W:133:ASP:CB	2.89	0.51
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.51
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.51
3:D:644:ALA:HB2	3:D:702:PRO:C	2.36	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
2:I:647:SER:CB	3:J:1451:ARG:CB	2.88	0.51
2:O:711:PHE:CB	1:W:133:ASP:CB	2.89	0.51
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.51
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.51
3:D:644:ALA:HB2	3:D:702:PRO:C	2.36	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
2:I:647:SER:CB	3:J:1451:ARG:CB	2.88	0.51
2:O:711:PHE:CB	1:W:133:ASP:CB	2.89	0.51
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.51
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.51
1:E:340:LYS:C	1:E:342:ILE:HA	2.35	0.51
2:I:647:SER:CB	3:J:1451:ARG:CB	2.88	0.51
2:O:711:PHE:CB	1:W:133:ASP:CB	2.89	0.51
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.51
1:E:1266:PHE:CB	3:J:680:SER:O	2.59	0.51
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.51
3:V:1448:MET:O	3:V:1451:ARG:N	2.44	0.51
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
3:J:49:ASP:C	3:J:51:ILE:H	2.19	0.51
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.51
2:U:647:SER:CB	3:V:1451:ARG:CB	2.88	0.51
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.51
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
4:F:458:ASP:C	4:F:459:LEU:C	2.79	0.51
3:J:49:ASP:C	3:J:51:ILE:H	2.19	0.51
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.51
2:U:647:SER:CB	3:V:1451:ARG:CB	2.88	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
3:J:49:ASP:C	3:J:51:ILE:H	2.19	0.51
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.51
2:U:647:SER:CB	3:V:1451:ARG:CB	2.88	0.51
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.51
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
3:D:49:ASP:C	3:D:51:ILE:H	2.19	0.51
3:J:49:ASP:C	3:J:51:ILE:H	2.19	0.51
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.19	0.51
2:U:647:SER:CB	3:V:1451:ARG:CB	2.88	0.51
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.51
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
3:D:49:ASP:C	3:D:51:ILE:H	2.19	0.51
3:J:49:ASP:C	3:J:51:ILE:H	2.19	0.51
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.19	0.51
2:U:647:SER:CB	3:V:1451:ARG:CB	2.88	0.51
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.51
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.51
1:A:340:LYS:C	1:A:342:ILE:HA	2.35	0.51
3:J:49:ASP:C	3:J:51:ILE:H	2.19	0.51
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.51
2:U:647:SER:CB	3:V:1451:ARG:CB	2.88	0.51
1:E:1302:VAL:HA	3:J:876:VAL:CB	2.40	0.51
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.51
3:J:1448:MET:O	3:J:1451:ARG:N	2.44	0.51
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:340:LYS:C	1:K:342:ILE:HA	2.35	0.51
5:M:325:ALA:C	5:M:325:ALA:CB	2.77	0.51
2:C:305:LEU:CB	1:Q:851:ALA:C	2.84	0.51
3:D:49:ASP:C	3:D:51:ILE:H	2.19	0.51
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.51
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.51
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.19	0.51
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.51
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.51
2:C:305:LEU:CB	1:Q:851:ALA:C	2.84	0.51
3:D:49:ASP:C	3:D:51:ILE:H	2.19	0.51
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.51
6:H:408:SER:CA	6:H:410:LEU:N	2.68	0.51
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.19	0.51
5:S:325:ALA:C	5:S:325:ALA:HA	2.15	0.51
6:T:408:SER:CA	6:T:410:LEU:N	2.68	0.51
2:C:305:LEU:CB	1:Q:851:ALA:C	2.84	0.51
3:D:49:ASP:C	3:D:51:ILE:H	2.19	0.51
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.51
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.19	0.51
2:C:305:LEU:CB	1:Q:851:ALA:C	2.84	0.51
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.51
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.51
1:E:849:ASN:N	2:O:301:LEU:C	2.69	0.51
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.51
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.51
3:D:49:ASP:C	3:D:51:ILE:H	2.19	0.51
1:E:849:ASN:N	2:O:301:LEU:C	2.69	0.51
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.51
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.51
3:P:49:ASP:C	3:P:51:ILE:H	2.19	0.51
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.51
6:H:490:GLN:CB	6:H:490:GLN:N	2.58	0.51
2:I:622:PHE:HA	3:J:1449:TRP:CB	2.39	0.51
2:U:643:ASN:CB	3:V:1453:THR:CA	2.87	0.51
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.51
3:V:49:ASP:C	3:V:51:ILE:H	2.19	0.51
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:49:ASP:C	3:V:51:ILE:H	2.19	0.51
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.51
3:V:49:ASP:C	3:V:51:ILE:H	2.19	0.51
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.51
3:V:49:ASP:C	3:V:51:ILE:H	2.19	0.51
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.51
3:V:49:ASP:C	3:V:51:ILE:H	2.19	0.51
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.51
3:V:49:ASP:C	3:V:51:ILE:H	2.19	0.51
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.51
1:Q:340:LYS:C	1:Q:342:ILE:HA	2.35	0.51
4:R:222:THR:O	4:R:246:GLU:HA	2.10	0.51
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.51
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.51
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.51
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.51
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.51
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.51
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.51
3:D:1515:TYR:CB	3:P:1472:SER:CB	2.89	0.51
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.51
3:D:1515:TYR:CB	3:P:1472:SER:CB	2.89	0.51
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.51
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.51
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.51
4:L:458:ASP:C	4:L:459:LEU:C	2.79	0.50
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.50
3:P:1448:MET:O	3:P:1451:ARG:N	2.44	0.50
1:W:22:ALA:HB1	1:W:780:ALA:CA	2.38	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.78	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.50
1:E:851:ALA:C	2:O:305:LEU:CB	2.84	0.50
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.50
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.50
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.50
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.50
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.50
1:E:851:ALA:C	2:O:305:LEU:CB	2.84	0.50
4:F:329:GLY:N	4:F:329:GLY:C	2.62	0.50
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.50
4:L:458:ASP:C	4:L:459:LEU:C	2.79	0.50
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.50
4:R:458:ASP:C	4:R:459:LEU:C	2.79	0.50
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.50
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.50
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.50
1:E:851:ALA:C	2:O:305:LEU:CB	2.84	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.50
1:E:851:ALA:C	2:O:305:LEU:CB	2.84	0.50
3:P:644:ALA:HB2	3:P:702:PRO:C	2.36	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.50
2:C:301:LEU:C	1:Q:849:ASN:N	2.69	0.50
3:P:644:ALA:HB2	3:P:702:PRO:C	2.36	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.50
2:C:301:LEU:C	1:Q:849:ASN:N	2.69	0.50
4:L:458:ASP:C	4:L:459:LEU:C	2.79	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.50
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.50
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.50
1:K:376:ARG:O	1:K:380:ALA:HA	2.11	0.50
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.50
2:C:722:LEU:CA	1:K:130:ASP:C	2.64	0.50
1:E:1239:ASP:CA	1:K:572:ALA:CA	2.87	0.50
4:F:490:LEU:O	4:F:493:HIS:N	2.43	0.50
3:J:1504:VAL:O	3:J:1505:SER:C	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.50
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.50
4:L:458:ASP:C	4:L:459:LEU:C	2.78	0.50
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.50
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.79	0.50
2:C:722:LEU:CA	1:K:130:ASP:C	2.64	0.50
1:E:1239:ASP:CA	1:K:572:ALA:CA	2.87	0.50
4:F:490:LEU:O	4:F:493:HIS:N	2.43	0.50
3:J:1504:VAL:O	3:J:1505:SER:C	2.38	0.50
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.50
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
2:C:722:LEU:CA	1:K:130:ASP:C	2.64	0.50
1:E:1239:ASP:CA	1:K:572:ALA:CA	2.87	0.50
3:J:1504:VAL:O	3:J:1505:SER:C	2.38	0.50
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.50
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.50
4:L:458:ASP:C	4:L:459:LEU:C	2.78	0.50
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.50
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.50
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.79	0.50
2:C:722:LEU:CA	1:K:130:ASP:C	2.64	0.50
1:E:1239:ASP:CA	1:K:572:ALA:CA	2.87	0.50
3:J:1504:VAL:O	3:J:1505:SER:C	2.38	0.50
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.50
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.50
4:L:458:ASP:C	4:L:459:LEU:C	2.78	0.50
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.50
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.50
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.50
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.79	0.50
2:C:722:LEU:CA	1:K:130:ASP:C	2.64	0.50
3:J:1504:VAL:O	3:J:1505:SER:C	2.38	0.50
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.50
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:458:ASP:C	4:L:459:LEU:C	2.78	0.50
6:N:380:GLU:C	6:N:381:LYS:CA	2.72	0.50
3:P:1447:THR:O	3:P:1448:MET:C	2.53	0.50
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.50
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.79	0.50
2:C:722:LEU:CA	1:K:130:ASP:C	2.64	0.50
3:J:1504:VAL:O	3:J:1505:SER:C	2.38	0.50
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.50
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.50
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
4:F:399:SER:CA	4:F:401:TYR:N	2.74	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:784:GLN:CB	1:W:132:GLY:CA	2.88	0.50
2:U:231:THR:C	2:U:233:VAL:H	2.17	0.50
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.50
3:D:1449:TRP:HA	3:P:1446:LYS:HA	1.93	0.50
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.50
4:R:399:SER:CA	4:R:401:TYR:N	2.74	0.50
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.50
3:D:1449:TRP:HA	3:P:1446:LYS:HA	1.93	0.50
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.50
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.50
4:R:399:SER:CA	4:R:401:TYR:N	2.74	0.50
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.50
3:D:1449:TRP:HA	3:P:1446:LYS:HA	1.93	0.50
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.50
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.50
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.50
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.50
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.50
3:D:1448:MET:O	3:D:1451:ARG:N	2.44	0.50
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.50
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.50
3:D:1449:TRP:HA	3:P:1446:LYS:HA	1.93	0.50
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.50
3:J:1447:THR:O	3:J:1448:MET:C	2.53	0.50
4:L:399:SER:CA	4:L:401:TYR:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:675:ARG:HA	1:K:849:ASN:CB	2.40	0.50
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.50
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.50
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.50
4:X:447:VAL:CB	4:X:447:VAL:N	2.62	0.50
3:D:1474:GLY:C	3:P:1472:SER:CB	2.82	0.50
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.50
3:V:644:ALA:HB2	3:V:702:PRO:C	2.36	0.50
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.50
3:D:1474:GLY:C	3:P:1472:SER:CB	2.82	0.50
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.50
3:V:644:ALA:HB2	3:V:702:PRO:C	2.36	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
3:D:1474:GLY:C	3:P:1472:SER:CB	2.82	0.50
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.50
3:V:644:ALA:HB2	3:V:702:PRO:C	2.36	0.50
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.50
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.50
3:V:644:ALA:HB2	3:V:702:PRO:C	2.36	0.50
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.50
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.50
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.50
3:V:644:ALA:HB2	3:V:702:PRO:C	2.36	0.50
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.50
3:D:1474:GLY:C	3:P:1472:SER:CB	2.82	0.50
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.50
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.50
3:V:644:ALA:HB2	3:V:702:PRO:C	2.36	0.50
6:Z:425:HIS:O	6:Z:426:ALA:HB2	2.11	0.50
1:B:376:ARG:O	1:B:380:ALA:HA	2.11	0.50
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.50
2:O:589:ASN:O	1:W:849:ASN:C	2.49	0.50
1:W:376:ARG:O	1:W:380:ALA:HA	2.11	0.50
3:D:644:ALA:HB2	3:D:702:PRO:C	2.36	0.50
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.50
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.50
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.50
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.50
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.50
3:D:644:ALA:HB2	3:D:702:PRO:C	2.36	0.50
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.50
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.50
4:R:458:ASP:O	4:R:460:LEU:CA	2.58	0.50
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.50
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.79	0.50
3:D:644:ALA:HB2	3:D:702:PRO:C	2.36	0.50
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.50
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.50
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.50
1:E:376:ARG:O	1:E:380:ALA:HA	2.11	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.50
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.50
3:D:644:ALA:HB2	3:D:702:PRO:C	2.36	0.50
1:K:215:LEU:HA	1:K:230:GLY:HA2	1.94	0.50
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.50
4:X:458:ASP:C	4:X:459:LEU:C	2.79	0.50
1:B:340:LYS:C	1:B:342:ILE:HA	2.35	0.50
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.50
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.50
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.50
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.50
4:L:490:LEU:O	4:L:493:HIS:N	2.44	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:592:SER:N	1:W:849:ASN:CB	2.40	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.50
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.50
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:592:SER:N	1:W:849:ASN:CB	2.40	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.50
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.50
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.50
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.50
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.50
4:L:490:LEU:O	4:L:493:HIS:N	2.44	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:592:SER:N	1:W:849:ASN:CB	2.40	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.50
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.50
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.50
4:L:490:LEU:O	4:L:493:HIS:N	2.44	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:592:SER:N	1:W:849:ASN:CB	2.40	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.50
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.50
4:L:490:LEU:O	4:L:493:HIS:N	2.44	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:592:SER:N	1:W:849:ASN:CB	2.40	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.50
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.50
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.50
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
5:M:339:TYR:CB	5:M:341:ALA:N	2.75	0.50
2:O:592:SER:N	1:W:849:ASN:CB	2.40	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.50
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.50
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.50
5:Y:325:ALA:C	5:Y:325:ALA:CB	2.77	0.50
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.50
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.50
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.50
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.50
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.50
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.50
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.50
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.50
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.50
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
4:X:399:SER:CA	4:X:401:TYR:N	2.74	0.50
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.50
6:H:425:HIS:O	6:H:426:ALA:HB2	2.11	0.50
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.50
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.50
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.50
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.50
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.50
5:M:325:ALA:CA	5:M:326:LEU:N	2.68	0.50
2:O:783:SER:N	1:W:92:GLU:H	2.10	0.50
1:Q:215:LEU:HA	1:Q:230:GLY:HA2	1.94	0.50
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.50
3:D:1476:ALA:HB2	3:P:1476:ALA:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.50
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.50
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.50
3:D:1476:ALA:HB2	3:P:1476:ALA:N	2.26	0.50
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.50
3:D:1476:ALA:HB2	3:P:1476:ALA:N	2.26	0.50
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.50
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.50
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.50
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.50
3:D:1472:SER:CB	3:P:1515:TYR:CB	2.89	0.50
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.50
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.50
1:Q:376:ARG:O	1:Q:380:ALA:HA	2.11	0.50
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.50
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.50
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.50
3:D:1472:SER:CB	3:P:1515:TYR:CB	2.89	0.50
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.50
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.50
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.50
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.50
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.50
3:D:1476:ALA:HB2	3:P:1476:ALA:N	2.26	0.50
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.50
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.50
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.50
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.50
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.50
6:N:490:GLN:CB	6:N:490:GLN:N	2.58	0.50
3:P:324:GLY:O	3:P:327:ALA:HB3	2.12	0.50
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.50
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.50
4:X:490:LEU:O	4:X:493:HIS:N	2.44	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.50
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
4:R:329:GLY:N	4:R:329:GLY:C	2.62	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.50
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
4:X:490:LEU:O	4:X:493:HIS:N	2.44	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.50
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
4:X:490:LEU:O	4:X:493:HIS:N	2.44	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.50
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
4:X:490:LEU:O	4:X:493:HIS:N	2.44	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.50
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.50
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
4:X:490:LEU:O	4:X:493:HIS:N	2.44	0.50
2:C:726:SER:CB	1:K:85:ARG:C	2.85	0.50
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.50
3:J:644:ALA:HB2	3:J:702:PRO:C	2.36	0.50
2:O:591:GLY:H	1:W:851:ALA:HB3	1.76	0.50
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.49
5:S:339:TYR:CB	5:S:341:ALA:N	2.75	0.49
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.49
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.49
6:T:406:LEU:C	6:T:408:SER:N	2.62	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.49
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.49
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.49
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.49
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.49
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.49
6:T:406:LEU:C	6:T:408:SER:N	2.62	0.49
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.49
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.49
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.49
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.49
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.49
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.49
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.49
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.49
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.49
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.49
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.49
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.49
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.49
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.49
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.49
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.49
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.49
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
4:X:453:TYR:N	4:X:453:TYR:C	2.70	0.49
1:E:215:LEU:HA	1:E:230:GLY:HA2	1.94	0.49
3:J:1537:GLN:C	3:J:1539:LEU:N	2.69	0.49
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.49
3:V:1447:THR:O	3:V:1448:MET:C	2.53	0.49
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.49
3:V:1539:LEU:O	3:V:1540:LEU:C	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
6:Z:380:GLU:C	6:Z:381:LYS:CA	2.72	0.49
4:L:453:TYR:N	4:L:453:TYR:C	2.70	0.49
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.49
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.49
2:C:306:PRO:N	1:Q:848:ASP:H	2.10	0.49
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.49
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.49
2:C:306:PRO:N	1:Q:848:ASP:H	2.10	0.49
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.49
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.49
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.49
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.49
2:C:306:PRO:N	1:Q:848:ASP:H	2.10	0.49
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.49
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.49
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.49
2:C:306:PRO:N	1:Q:848:ASP:H	2.10	0.49
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.49
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.49
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.49
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.49
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.49
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.49
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.49
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.49
4:F:453:TYR:N	4:F:453:TYR:C	2.70	0.49
6:N:425:HIS:O	6:N:426:ALA:HB2	2.11	0.49
6:T:425:HIS:O	6:T:426:ALA:HB2	2.11	0.49
5:Y:339:TYR:CB	5:Y:341:ALA:N	2.75	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.13	0.49
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.49
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.49
3:V:324:GLY:O	3:V:327:ALA:HB3	2.12	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.12	0.49
2:O:722:LEU:CA	1:W:130:ASP:C	2.61	0.49
2:O:722:LEU:CB	1:W:128:TYR:O	2.60	0.49
2:O:786:ARG:CB	1:W:92:GLU:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.49
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.49
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.12	0.49
2:O:722:LEU:CA	1:W:130:ASP:C	2.61	0.49
2:O:722:LEU:CB	1:W:128:TYR:O	2.60	0.49
2:O:786:ARG:CB	1:W:92:GLU:H	2.21	0.49
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.49
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.49
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.49
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.12	0.49
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.49
2:O:722:LEU:CA	1:W:130:ASP:C	2.61	0.49
2:O:722:LEU:CB	1:W:128:TYR:O	2.60	0.49
2:O:786:ARG:CB	1:W:92:GLU:H	2.21	0.49
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.49
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.12	0.49
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.49
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.49
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.49
2:O:722:LEU:CA	1:W:130:ASP:C	2.61	0.49
2:O:722:LEU:CB	1:W:128:TYR:O	2.60	0.49
2:O:786:ARG:CB	1:W:92:GLU:H	2.21	0.49
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.12	0.49
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.49
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.49
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.49
2:O:722:LEU:CA	1:W:130:ASP:C	2.61	0.49
2:O:722:LEU:CB	1:W:128:TYR:O	2.60	0.49
2:O:786:ARG:CB	1:W:92:GLU:H	2.21	0.49
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.49
2:C:469:THR:O	2:C:470:ALA:HB3	2.12	0.49
4:F:486:GLU:C	4:F:488:ILE:N	2.70	0.49
2:O:722:LEU:CA	1:W:130:ASP:C	2.61	0.49
2:O:722:LEU:CB	1:W:128:TYR:O	2.60	0.49
2:O:786:ARG:CB	1:W:92:GLU:H	2.21	0.49
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.49
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
1:A:376:ARG:O	1:A:380:ALA:HA	2.11	0.49
2:C:675:ARG:O	1:K:851:ALA:HB3	2.12	0.49
3:J:324:GLY:O	3:J:327:ALA:HB3	2.12	0.49
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.49
6:T:463:ALA:N	6:T:463:ALA:C	2.65	0.49
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.49
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.49
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.49
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.49
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.49
5:G:341:ALA:N	5:G:341:ALA:C	2.68	0.49
5:G:341:ALA:N	5:G:341:ALA:C	2.68	0.49
5:G:341:ALA:N	5:G:341:ALA:C	2.68	0.49
3:D:1486:CYS:O	3:D:1487:ASP:C	2.50	0.49
5:G:341:ALA:N	5:G:341:ALA:C	2.68	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.49
5:G:339:TYR:CB	5:G:341:ALA:N	2.75	0.49
2:U:622:PHE:HA	3:V:1449:TRP:CB	2.40	0.49
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.49
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
3:P:644:ALA:HB2	3:P:702:PRO:C	2.36	0.49
1:Q:1305:GLN:CB	3:V:172:ARG:CA	2.91	0.49
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.49
4:F:447:VAL:CB	4:F:447:VAL:C	2.77	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
3:P:644:ALA:HB2	3:P:702:PRO:C	2.36	0.49
1:Q:1305:GLN:CB	3:V:172:ARG:CA	2.91	0.49
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.49
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.49
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.49
5:G:339:TYR:CA	5:G:340:ALA:N	2.68	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
3:P:644:ALA:HB2	3:P:702:PRO:C	2.36	0.49
1:Q:1305:GLN:CB	3:V:172:ARG:CA	2.91	0.49
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.49
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:339:TYR:CA	5:G:340:ALA:N	2.68	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.49
1:Q:1305:GLN:CB	3:V:172:ARG:CA	2.91	0.49
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.49
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.49
5:G:339:TYR:CA	5:G:340:ALA:N	2.68	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.49
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.49
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.49
5:G:339:TYR:CA	5:G:340:ALA:N	2.68	0.49
2:O:469:THR:O	2:O:470:ALA:HB3	2.12	0.49
3:P:644:ALA:HB2	3:P:702:PRO:C	2.36	0.49
4:R:447:VAL:CB	4:R:447:VAL:C	2.77	0.49
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.49
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.49
3:J:1486:CYS:O	3:J:1487:ASP:C	2.50	0.49
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.49
1:Q:1354:LEU:N	3:V:871:GLN:C	2.51	0.49
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.49
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.49
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.49
5:M:325:ALA:CA	5:M:326:LEU:N	2.69	0.49
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.49
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.49
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.49
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.49
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.49
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.49
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.49
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.49
5:M:325:ALA:CA	5:M:326:LEU:N	2.69	0.49
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.49
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.49
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.49
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.49
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.49
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:325:ALA:CA	5:M:326:LEU:N	2.69	0.49
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.49
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.49
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.49
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.49
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.49
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.49
4:L:486:GLU:C	4:L:488:ILE:N	2.70	0.49
5:M:325:ALA:CA	5:M:326:LEU:N	2.69	0.49
5:M:339:TYR:CA	5:M:340:ALA:N	2.68	0.49
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.49
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.49
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.49
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.49
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.49
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.49
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.49
1:E:1304:ASP:N	3:J:876:VAL:O	2.10	0.49
3:J:1517:SER:O	3:J:1518:ASN:C	2.51	0.49
3:V:1491:ILE:O	3:V:1492:GLY:C	2.53	0.49
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.49
4:R:490:LEU:O	4:R:493:HIS:N	2.44	0.49
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.49
4:R:490:LEU:O	4:R:493:HIS:N	2.44	0.49
6:H:406:LEU:C	6:H:408:SER:N	2.61	0.49
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.49
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.49
6:H:406:LEU:C	6:H:408:SER:N	2.61	0.49
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.49
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.49
6:H:406:LEU:C	6:H:408:SER:N	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.49
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.49
6:H:406:LEU:C	6:H:408:SER:N	2.61	0.49
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.49
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.49
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.49
4:L:491:VAL:C	4:L:492:GLU:C	2.81	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
1:Q:1308:LYS:H	3:V:733:ASP:CB	2.25	0.49
1:W:215:LEU:HA	1:W:230:GLY:HA2	1.94	0.49
4:X:458:ASP:O	4:X:460:LEU:CA	2.58	0.49
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.49
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.49
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.49
2:O:779:GLU:HA	1:W:123:ILE:H	1.78	0.49
3:P:887:ASN:O	6:T:405:ASP:CA	2.60	0.49
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.49
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.49
2:O:779:GLU:HA	1:W:123:ILE:H	1.78	0.49
3:P:887:ASN:O	6:T:405:ASP:CA	2.60	0.49
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.49
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.49
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
2:O:779:GLU:HA	1:W:123:ILE:H	1.78	0.49
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.49
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.49
2:C:173:PRO:O	3:D:1682:LYS:CB	2.60	0.49
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.49
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
2:O:779:GLU:HA	1:W:123:ILE:H	1.78	0.49
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.49
2:C:173:PRO:O	3:D:1682:LYS:CB	2.60	0.49
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.49
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:779:GLU:HA	1:W:123:ILE:H	1.78	0.49
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.49
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
2:O:779:GLU:HA	1:W:123:ILE:H	1.78	0.49
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.49
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.49
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.49
1:B:215:LEU:HA	1:B:230:GLY:HA2	1.94	0.49
3:D:324:GLY:O	3:D:327:ALA:HB3	2.12	0.49
3:J:69:LYS:O	3:J:70:ALA:HB3	2.13	0.49
4:R:453:TYR:N	4:R:453:TYR:C	2.70	0.49
2:U:469:THR:O	2:U:470:ALA:HB3	2.12	0.49
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.49
2:O:15:GLN:N	2:O:16:LEU:N	2.61	0.49
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.49
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.49
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.49
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.49
2:O:173:PRO:O	3:P:1682:LYS:O	2.31	0.49
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.49
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.49
2:O:173:PRO:O	3:P:1682:LYS:O	2.31	0.49
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.49
4:F:367:THR:C	4:F:367:THR:CB	2.78	0.49
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.49
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.49
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.49
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.49
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.49
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.49
4:X:486:GLU:C	4:X:488:ILE:N	2.70	0.49
1:K:312:MET:CB	1:K:313:SER:CA	2.91	0.49
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.49
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.49
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.49
3:J:1539:LEU:O	3:J:1540:LEU:C	2.40	0.48
2:O:653:ILE:CB	3:P:1456:GLU:CA	2.91	0.48
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.48
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.48
4:R:486:GLU:C	4:R:488:ILE:N	2.70	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.48
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1447:THR:O	3:D:1448:MET:C	2.53	0.48
4:F:458:ASP:O	4:F:460:LEU:CA	2.58	0.48
3:J:1491:ILE:O	3:J:1492:GLY:C	2.53	0.48
2:O:788:GLN:N	1:W:90:PRO:CB	2.38	0.48
2:U:469:THR:O	2:U:470:ALA:HB3	2.13	0.48
2:C:487:CYS:CB	3:D:1661:ARG:CA	2.85	0.48
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.48
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.48
1:E:1309:SER:HA	3:J:174:THR:HA	1.86	0.48
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.48
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.48
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.48
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.48
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.48
1:E:1309:SER:HA	3:J:174:THR:HA	1.86	0.48
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.48
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.48
1:E:1309:SER:HA	3:J:174:THR:HA	1.86	0.48
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.48
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.48
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.48
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.48
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.48
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.48
1:E:1309:SER:HA	3:J:174:THR:HA	1.86	0.48
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.48
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.48
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.48
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.48
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.48
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.48
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.48
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.48
4:X:491:VAL:C	4:X:492:GLU:C	2.81	0.48
5:Y:325:ALA:C	5:Y:325:ALA:HA	2.15	0.48
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.48
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.48
3:P:69:LYS:O	3:P:70:ALA:HB3	2.13	0.48
4:R:492:GLU:C	4:R:493:HIS:CA	2.84	0.48
2:C:15:GLN:N	2:C:16:LEU:N	2.61	0.48
1:Q:1286:ILE:N	3:V:680:SER:CB	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.48
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.48
2:O:780:ASP:HA	1:W:136:TYR:C	2.38	0.48
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.48
2:U:643:ASN:N	3:V:1452:LEU:HA	2.28	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.48
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.48
2:O:780:ASP:HA	1:W:136:TYR:C	2.38	0.48
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.48
2:U:643:ASN:N	3:V:1452:LEU:HA	2.28	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.48
2:O:780:ASP:HA	1:W:136:TYR:C	2.38	0.48
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.48
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.48
6:T:462:GLY:CA	6:T:462:GLY:O	2.51	0.48
2:U:643:ASN:N	3:V:1452:LEU:HA	2.28	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.48
2:O:780:ASP:HA	1:W:136:TYR:C	2.38	0.48
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.48
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.48
6:T:462:GLY:CA	6:T:462:GLY:O	2.51	0.48
2:U:643:ASN:N	3:V:1452:LEU:HA	2.28	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.48
2:O:780:ASP:HA	1:W:136:TYR:C	2.38	0.48
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.48
6:T:462:GLY:CA	6:T:462:GLY:O	2.51	0.48
2:U:643:ASN:N	3:V:1452:LEU:HA	2.28	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.48
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.48
2:O:780:ASP:HA	1:W:136:TYR:C	2.38	0.48
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.48
6:T:462:GLY:CA	6:T:462:GLY:O	2.51	0.48
2:U:643:ASN:N	3:V:1452:LEU:HA	2.28	0.48
3:V:69:LYS:O	3:V:70:ALA:HB3	2.13	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:644:ALA:HB2	3:V:702:PRO:O	2.14	0.48
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.48
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.48
1:Q:1231:ASP:O	1:W:579:GLU:CB	2.61	0.48
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.48
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.48
1:Q:1231:ASP:O	1:W:579:GLU:CB	2.61	0.48
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.48
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.48
1:Q:1231:ASP:O	1:W:579:GLU:CB	2.61	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.48
1:Q:1231:ASP:O	1:W:579:GLU:CB	2.61	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
6:Z:408:SER:CA	6:Z:410:LEU:N	2.68	0.48
1:A:215:LEU:HA	1:A:230:GLY:HA2	1.94	0.48
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.48
4:L:450:GLU:O	4:L:451:GLU:CA	2.33	0.48
3:P:644:ALA:HB2	3:P:702:PRO:O	2.14	0.48
1:Q:312:MET:CB	1:Q:313:SER:CA	2.91	0.48
5:S:325:ALA:CA	5:S:326:LEU:N	2.69	0.48
3:V:1509:GLN:O	3:V:1510:GLN:C	2.45	0.48
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.48
2:C:709:ARG:HA	1:K:197:GLY:N	2.28	0.48
3:D:1446:LYS:HA	3:P:1449:TRP:HA	1.95	0.48
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.48
3:P:888:PRO:CA	6:T:408:SER:C	2.85	0.48
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.48
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.48
2:C:709:ARG:HA	1:K:197:GLY:N	2.28	0.48
3:D:1446:LYS:HA	3:P:1449:TRP:HA	1.95	0.48
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.48
5:M:325:ALA:CA	5:M:326:LEU:N	2.69	0.48
3:P:888:PRO:CA	6:T:408:SER:C	2.85	0.48
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.48
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.48
2:C:709:ARG:HA	1:K:197:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1446:LYS:HA	3:P:1449:TRP:HA	1.95	0.48
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.48
6:T:374:SER:CB	6:T:374:SER:H	2.25	0.48
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.48
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.48
2:C:709:ARG:HA	1:K:197:GLY:N	2.28	0.48
6:T:374:SER:CB	6:T:374:SER:H	2.25	0.48
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.48
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.48
2:C:709:ARG:HA	1:K:197:GLY:N	2.28	0.48
6:T:374:SER:CB	6:T:374:SER:H	2.25	0.48
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.48
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.48
2:C:709:ARG:HA	1:K:197:GLY:N	2.28	0.48
3:D:1446:LYS:HA	3:P:1449:TRP:HA	1.95	0.48
5:M:325:ALA:CA	5:M:326:LEU:N	2.69	0.48
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.48
6:T:374:SER:CB	6:T:374:SER:H	2.25	0.48
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.48
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.48
5:G:378:SER:CA	5:G:378:SER:O	2.51	0.48
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.48
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.48
1:Q:1218:GLN:C	3:V:675:THR:O	2.42	0.48
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.48
2:U:644:LYS:CB	3:V:1451:ARG:CA	2.92	0.48
3:V:1517:SER:O	3:V:1518:ASN:C	2.51	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.48
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.48
2:C:726:SER:HA	1:K:85:ARG:CA	2.44	0.48
3:D:1511:GLN:O	3:P:1469:ILE:HA	2.12	0.48
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.48
2:I:643:ASN:N	3:J:1452:LEU:HA	2.28	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.48
2:C:726:SER:HA	1:K:85:ARG:CA	2.44	0.48
3:D:1511:GLN:O	3:P:1469:ILE:HA	2.12	0.48
4:F:491:VAL:C	4:F:492:GLU:C	2.81	0.48
2:I:643:ASN:N	3:J:1452:LEU:HA	2.28	0.48
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.48
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.48
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.48
2:C:726:SER:HA	1:K:85:ARG:CA	2.44	0.48
3:D:1511:GLN:O	3:P:1469:ILE:HA	2.12	0.48
2:I:643:ASN:N	3:J:1452:LEU:HA	2.28	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.48
2:C:726:SER:HA	1:K:85:ARG:CA	2.44	0.48
2:I:643:ASN:N	3:J:1452:LEU:HA	2.28	0.48
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.48
2:C:726:SER:HA	1:K:85:ARG:CA	2.44	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
2:I:643:ASN:N	3:J:1452:LEU:HA	2.28	0.48
3:P:1518:ASN:O	3:P:1519:SER:C	2.55	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
1:A:312:MET:CB	1:A:313:SER:CA	2.91	0.48
2:C:726:SER:HA	1:K:85:ARG:CA	2.44	0.48
3:D:1511:GLN:O	3:P:1469:ILE:HA	2.12	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
2:I:643:ASN:N	3:J:1452:LEU:HA	2.28	0.48
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
1:W:312:MET:CB	1:W:313:SER:CA	2.91	0.48
5:Y:326:LEU:N	5:Y:326:LEU:CB	2.72	0.48
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.48
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
2:O:589:ASN:C	1:W:850:ALA:N	2.49	0.48
2:O:591:GLY:HA2	1:W:853:ASP:CB	2.44	0.48
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.48
5:G:339:TYR:CA	5:G:340:ALA:N	2.68	0.48
5:G:339:TYR:CA	5:G:340:ALA:N	2.68	0.48
6:Z:406:LEU:C	6:Z:408:SER:N	2.62	0.48
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.48
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.48
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:301:LEU:C	1:Q:849:ASN:CA	2.86	0.48
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.48
2:C:301:LEU:C	1:Q:849:ASN:CA	2.86	0.48
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.48
6:Z:406:LEU:C	6:Z:408:SER:N	2.62	0.48
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.48
4:F:490:LEU:O	4:F:493:HIS:N	2.43	0.48
4:F:492:GLU:C	4:F:493:HIS:CA	2.84	0.48
1:Q:1309:SER:CB	3:V:735:TYR:H	2.27	0.48
4:R:367:THR:C	4:R:367:THR:CB	2.78	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
3:V:1472:SER:O	3:V:1473:TYR:C	2.55	0.48
3:V:1518:ASN:O	3:V:1519:SER:C	2.55	0.48
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.48
2:C:779:GLU:CB	1:K:123:ILE:H	2.26	0.48
2:C:780:ASP:HA	1:K:136:TYR:C	2.39	0.48
3:D:1450:GLU:CA	3:P:1446:LYS:HA	2.37	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.48
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.48
2:U:644:LYS:CB	3:V:1450:GLU:HA	2.44	0.48
2:C:779:GLU:CB	1:K:123:ILE:H	2.26	0.48
2:C:780:ASP:HA	1:K:136:TYR:C	2.39	0.48
3:D:1450:GLU:CA	3:P:1446:LYS:HA	2.37	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.48
4:R:491:VAL:C	4:R:492:GLU:C	2.81	0.48
2:U:644:LYS:CB	3:V:1450:GLU:HA	2.44	0.48
2:C:779:GLU:CB	1:K:123:ILE:H	2.26	0.48
2:C:780:ASP:HA	1:K:136:TYR:C	2.39	0.48
3:D:1450:GLU:CA	3:P:1446:LYS:HA	2.37	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.48
2:U:644:LYS:CB	3:V:1450:GLU:HA	2.44	0.48
2:C:779:GLU:CB	1:K:123:ILE:H	2.26	0.48
2:C:780:ASP:HA	1:K:136:TYR:C	2.39	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.48
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.48
2:U:644:LYS:CB	3:V:1450:GLU:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:779:GLU:CB	1:K:123:ILE:H	2.26	0.48
2:C:780:ASP:HA	1:K:136:TYR:C	2.39	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.48
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.48
2:U:644:LYS:CB	3:V:1450:GLU:HA	2.44	0.48
2:C:779:GLU:CB	1:K:123:ILE:H	2.26	0.48
2:C:780:ASP:HA	1:K:136:TYR:C	2.39	0.48
3:D:1450:GLU:CA	3:P:1446:LYS:HA	2.37	0.48
2:I:469:THR:O	2:I:470:ALA:HB3	2.12	0.48
6:N:462:GLY:CA	6:N:462:GLY:O	2.51	0.48
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.48
2:U:644:LYS:CB	3:V:1450:GLU:HA	2.44	0.48
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.48
1:E:852:VAL:CB	2:O:304:PRO:CA	2.89	0.48
3:J:1509:GLN:O	3:J:1510:GLN:C	2.45	0.48
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.48
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.48
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.48
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.48
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.48
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.48
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.48
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.48
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.48
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.48
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.48
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.48
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.48
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.48
5:S:378:SER:CB	5:S:378:SER:O	2.61	0.48
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.48
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.48
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.48
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.48
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.48
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.48
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.48
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.48
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.48
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.48
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.48
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.48
3:D:1491:ILE:O	3:D:1492:GLY:C	2.53	0.48
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.48
5:G:378:SER:CB	5:G:378:SER:O	2.61	0.48
4:L:492:GLU:C	4:L:493:HIS:CA	2.84	0.48
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.48
3:D:69:LYS:O	3:D:70:ALA:HB3	2.13	0.48
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.48
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.48
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.48
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.48
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.48
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.48
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.48
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.48
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.48
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.48
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.48
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.48
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.48
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
1:E:312:MET:CB	1:E:313:SER:CA	2.91	0.48
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.48
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.48
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.48
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.48
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.48
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.48
5:M:378:SER:CA	5:M:378:SER:O	2.51	0.48
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.48
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.48
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.48
2:U:15:GLN:N	2:U:16:LEU:N	2.61	0.48
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.48
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.48
3:J:1472:SER:O	3:J:1473:TYR:C	2.55	0.48
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.48
5:M:326:LEU:N	5:M:326:LEU:CB	2.72	0.48
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.48
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.48
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.48
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.48
3:D:644:ALA:HB2	3:D:702:PRO:O	2.14	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
3:J:644:ALA:HB2	3:J:702:PRO:O	2.14	0.47
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.47
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.47
1:Q:1358:CYS:CB	3:V:868:ARG:CB	2.92	0.47
5:G:340:ALA:O	5:G:341:ALA:CB	2.62	0.47
3:J:1502:ARG:O	3:J:1503:ILE:C	2.57	0.47
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.47
5:G:340:ALA:O	5:G:341:ALA:CB	2.62	0.47
3:J:1502:ARG:O	3:J:1503:ILE:C	2.57	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.47
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.47
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.47
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.47
3:J:1502:ARG:O	3:J:1503:ILE:C	2.57	0.47
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.47
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.47
3:J:1502:ARG:O	3:J:1503:ILE:C	2.57	0.47
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.47
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.47
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.47
3:J:1502:ARG:O	3:J:1503:ILE:C	2.57	0.47
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.47
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.47
5:G:326:LEU:N	5:G:326:LEU:CB	2.72	0.47
3:J:1502:ARG:O	3:J:1503:ILE:C	2.57	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
1:B:312:MET:CB	1:B:313:SER:CA	2.91	0.47
2:C:480:PHE:C	2:C:484:ARG:CB	2.87	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.47
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.47
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.47
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.47
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.47
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.47
3:V:341:SER:C	3:V:343:LEU:H	2.22	0.47
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.47
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.47
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.47
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.47
3:V:341:SER:C	3:V:343:LEU:H	2.22	0.47
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.47
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.47
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.47
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.47
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.47
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.47
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.15	0.47
3:V:341:SER:C	3:V:343:LEU:H	2.22	0.47
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.47
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.47
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.47
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.47
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.15	0.47
3:V:341:SER:C	3:V:343:LEU:H	2.22	0.47
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.47
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.47
2:I:15:GLN:N	2:I:16:LEU:N	2.61	0.47
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.47
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.47
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.15	0.47
3:V:341:SER:C	3:V:343:LEU:H	2.22	0.47
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.47
5:Y:378:SER:CB	5:Y:378:SER:O	2.61	0.47
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.47
2:O:480:PHE:C	2:O:484:ARG:CB	2.87	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.15	0.47
3:V:341:SER:C	3:V:343:LEU:H	2.22	0.47
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.47
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.47
2:C:681:ALA:HB3	1:K:850:ALA:HB2	1.96	0.47
4:L:197:LYS:CB	4:L:201:GLU:CB	2.92	0.47
1:Q:1298:ARG:O	3:V:687:ILE:CB	2.62	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.45	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.14	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.47
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.47
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.47
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.47
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:340:ALA:O	5:S:341:ALA:CB	2.62	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.47
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.47
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.62	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.47
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
3:P:1486:CYS:O	3:P:1487:ASP:C	2.50	0.47
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.62	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.47
3:J:1518:ASN:O	3:J:1519:SER:C	2.55	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.62	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1504:VAL:O	3:V:1505:SER:C	2.39	0.47
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.47
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.47
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.47
4:X:490:LEU:O	4:X:493:HIS:N	2.43	0.47
6:Z:463:ALA:N	6:Z:463:ALA:C	2.65	0.47
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.47
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.47
1:E:404:LYS:HA	1:E:405:PRO:HA	1.70	0.47
2:I:644:LYS:CB	3:J:1450:GLU:HA	2.44	0.47
3:J:341:SER:C	3:J:343:LEU:H	2.22	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.45	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
2:C:19:GLU:CB	2:C:20:THR:CA	2.92	0.47
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.47
1:E:404:LYS:HA	1:E:405:PRO:HA	1.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.47
2:I:644:LYS:CB	3:J:1450:GLU:HA	2.44	0.47
3:J:341:SER:C	3:J:343:LEU:H	2.22	0.47
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.47
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.47
1:E:404:LYS:HA	1:E:405:PRO:HA	1.70	0.47
6:H:477:ILE:O	6:H:480:ALA:HB3	2.14	0.47
2:I:644:LYS:CB	3:J:1450:GLU:HA	2.44	0.47
3:J:341:SER:C	3:J:343:LEU:H	2.22	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.45	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.47
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.47
1:E:404:LYS:HA	1:E:405:PRO:HA	1.70	0.47
6:H:477:ILE:O	6:H:480:ALA:HB3	2.14	0.47
2:I:644:LYS:CB	3:J:1450:GLU:HA	2.44	0.47
3:J:341:SER:C	3:J:343:LEU:H	2.22	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.45	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
2:C:301:LEU:O	1:Q:849:ASN:CB	2.62	0.47
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.47
3:D:1518:ASN:O	3:D:1519:SER:C	2.55	0.47
1:E:849:ASN:CA	2:O:301:LEU:C	2.86	0.47
6:H:477:ILE:O	6:H:480:ALA:HB3	2.14	0.47
2:I:644:LYS:CB	3:J:1450:GLU:HA	2.44	0.47
3:J:341:SER:C	3:J:343:LEU:H	2.22	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.45	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
2:C:301:LEU:O	1:Q:849:ASN:CB	2.62	0.47
3:D:1517:SER:O	3:D:1518:ASN:C	2.51	0.47
1:E:849:ASN:CA	2:O:301:LEU:C	2.86	0.47
6:H:477:ILE:O	6:H:480:ALA:HB3	2.14	0.47
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.47
2:I:644:LYS:CB	3:J:1450:GLU:HA	2.44	0.47
3:J:341:SER:C	3:J:343:LEU:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:463:ALA:N	6:N:463:ALA:C	2.65	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
4:X:483:ASP:C	4:X:486:GLU:H	2.22	0.47
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.47
2:I:19:GLU:CB	2:I:20:THR:CA	2.92	0.47
2:I:618:ASN:O	3:J:1445:LYS:C	2.56	0.47
2:I:620:GLY:HA2	3:J:1449:TRP:H	1.79	0.47
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.47
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.47
4:R:197:LYS:CB	4:R:201:GLU:CB	2.92	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.47
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.47
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.62	0.47
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.62	0.47
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.47
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
4:R:483:ASP:C	4:R:486:GLU:H	2.22	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.62	0.47
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
5:G:340:ALA:O	5:G:341:ALA:CB	2.63	0.47
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
6:T:406:LEU:C	6:T:408:SER:N	2.62	0.47
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.62	0.47
3:D:341:SER:C	3:D:343:LEU:H	2.22	0.47
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
5:G:340:ALA:O	5:G:341:ALA:CB	2.63	0.47
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.47
6:T:406:LEU:C	6:T:408:SER:N	2.62	0.47
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.62	0.47
3:D:341:SER:C	3:D:343:LEU:H	2.22	0.47
3:D:1472:SER:O	3:D:1473:TYR:C	2.55	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:340:ALA:O	5:G:341:ALA:CB	2.63	0.47
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.47
6:T:406:LEU:C	6:T:408:SER:N	2.62	0.47
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.62	0.47
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
5:G:340:ALA:O	5:G:341:ALA:CB	2.63	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
6:T:406:LEU:C	6:T:408:SER:N	2.62	0.47
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.47
2:I:618:ASN:CB	3:J:1442:GLU:CB	2.93	0.47
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.47
4:L:198:LYS:C	4:L:200:THR:N	2.58	0.47
4:L:483:ASP:C	4:L:486:GLU:H	2.22	0.47
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.47
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.47
4:R:211:GLU:HA	4:R:214:HIS:CB	2.45	0.47
6:T:406:LEU:C	6:T:408:SER:N	2.61	0.47
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.47
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.47
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.47
4:F:483:ASP:C	4:F:486:GLU:H	2.22	0.47
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.47
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.47
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.47
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.47
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.47
3:P:341:SER:C	3:P:343:LEU:H	2.22	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
3:D:1509:GLN:O	3:D:1510:GLN:C	2.45	0.47
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.47
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:341:SER:C	3:P:343:LEU:H	2.22	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.47
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
4:X:488:ILE:N	4:X:488:ILE:CB	2.66	0.47
2:C:487:CYS:CA	3:D:1661:ARG:CB	2.87	0.47
1:E:852:VAL:CB	2:O:305:LEU:H	2.25	0.47
4:F:197:LYS:CB	4:F:201:GLU:CB	2.92	0.47
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
2:I:618:ASN:HA	3:J:1443:ALA:HA	1.97	0.47
4:L:140:LYS:HA	4:L:149:GLY:CA	2.45	0.47
4:L:140:LYS:CA	4:L:149:GLY:HA2	2.45	0.47
4:L:458:ASP:O	4:L:460:LEU:CA	2.58	0.47
3:P:1472:SER:O	3:P:1473:TYR:C	2.55	0.47
3:P:1489:HIS:O	3:P:1492:GLY:N	2.48	0.47
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.47
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.47
2:U:480:PHE:C	2:U:484:ARG:CB	2.87	0.47
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.63	0.47
3:D:1469:ILE:HA	3:P:1511:GLN:O	2.13	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.47
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.47
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.47
3:P:341:SER:C	3:P:343:LEU:H	2.22	0.47
3:P:883:LEU:O	6:T:408:SER:O	2.33	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
3:D:1469:ILE:HA	3:P:1511:GLN:O	2.13	0.47
4:F:158:ASN:CA	4:F:321:LYS:O	2.62	0.47
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.47
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.47
3:P:341:SER:C	3:P:343:LEU:H	2.22	0.47
3:P:883:LEU:O	6:T:408:SER:O	2.33	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.45	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1469:ILE:HA	3:P:1511:GLN:O	2.13	0.47
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.47
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.47
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.47
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.47
3:P:341:SER:C	3:P:343:LEU:H	2.22	0.47
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.47
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.47
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.47
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.47
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.47
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.47
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.47
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.47
5:M:378:SER:CB	5:M:378:SER:O	2.61	0.47
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.47
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
3:D:1469:ILE:HA	3:P:1511:GLN:O	2.13	0.47
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.47
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.47
6:N:408:SER:CA	6:N:410:LEU:N	2.68	0.47
3:P:341:SER:C	3:P:343:LEU:H	2.22	0.47
5:S:339:TYR:CA	5:S:340:ALA:N	2.68	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.45	0.47
5:Y:322:ALA:O	5:Y:325:ALA:HB3	2.14	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.15	0.47
5:G:322:ALA:O	5:G:325:ALA:HB3	2.14	0.47
6:H:477:ILE:O	6:H:480:ALA:HB3	2.15	0.47
2:I:619:LYS:C	3:J:1445:LYS:C	2.70	0.47
3:J:1504:VAL:O	3:J:1505:SER:C	2.39	0.47
4:R:200:THR:C	4:R:202:ILE:N	2.70	0.47
5:S:340:ALA:O	5:S:341:ALA:CB	2.63	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.47
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:722:LEU:CB	1:W:128:TYR:C	2.87	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.45	0.47
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
4:F:140:LYS:CA	4:F:149:GLY:HA2	2.45	0.47
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.47
6:N:477:ILE:O	6:N:480:ALA:HB3	2.14	0.47
2:O:19:GLU:CB	2:O:20:THR:CA	2.92	0.47
2:O:722:LEU:CB	1:W:128:TYR:C	2.87	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.45	0.47
4:X:140:LYS:HA	4:X:149:GLY:CA	2.45	0.47
6:H:490:GLN:CB	6:H:490:GLN:N	2.58	0.47
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.47
2:O:722:LEU:CB	1:W:128:TYR:C	2.87	0.47
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.47
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
6:H:490:GLN:CB	6:H:490:GLN:N	2.58	0.47
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.47
2:O:722:LEU:CB	1:W:128:TYR:C	2.87	0.47
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.47
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
6:H:490:GLN:CB	6:H:490:GLN:N	2.58	0.47
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.47
2:O:722:LEU:CB	1:W:128:TYR:C	2.87	0.47
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.47
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.47
5:Y:339:TYR:CA	5:Y:340:ALA:N	2.68	0.47
6:H:490:GLN:CB	6:H:490:GLN:N	2.58	0.47
4:L:488:ILE:N	4:L:488:ILE:CB	2.66	0.47
6:N:477:ILE:O	6:N:480:ALA:HB3	2.14	0.47
2:O:722:LEU:CB	1:W:128:TYR:C	2.87	0.47
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.47
4:X:140:LYS:HA	4:X:149:GLY:CA	2.45	0.47
2:U:19:GLU:CB	2:U:20:THR:CA	2.92	0.47
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.47
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.14	0.47
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.47
1:Q:1233:VAL:CB	1:W:579:GLU:CB	2.92	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.47
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.47
1:Q:1233:VAL:CB	1:W:579:GLU:CB	2.92	0.47
5:S:322:ALA:O	5:S:325:ALA:HB3	2.14	0.47
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.47
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.47
1:Q:1233:VAL:CB	1:W:579:GLU:CB	2.92	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.44	0.47
5:S:379:HIS:N	5:S:379:HIS:CB	2.72	0.47
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.47
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.47
1:Q:1233:VAL:CB	1:W:579:GLU:CB	2.92	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.44	0.47
5:S:379:HIS:N	5:S:379:HIS:CB	2.72	0.47
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.47
1:E:849:ASN:CB	2:O:301:LEU:O	2.62	0.47
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.44	0.47
5:S:379:HIS:N	5:S:379:HIS:CB	2.72	0.47
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.47
1:E:849:ASN:CB	2:O:301:LEU:O	2.62	0.47
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.47
2:I:480:PHE:C	2:I:484:ARG:CB	2.87	0.47
3:J:1544:PRO:C	3:J:1546:LEU:N	2.72	0.47
5:M:379:HIS:N	5:M:379:HIS:HA	2.05	0.47
4:R:140:LYS:CA	4:R:149:GLY:HA2	2.44	0.47
5:S:379:HIS:N	5:S:379:HIS:CB	2.72	0.47
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.47
2:C:681:ALA:HB3	1:K:850:ALA:CA	2.45	0.47
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:340:ALA:O	5:G:341:ALA:CB	2.63	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
4:L:490:LEU:O	4:L:493:HIS:N	2.43	0.47
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.47
1:Q:1306:LEU:C	3:V:733:ASP:CA	2.88	0.47
3:V:1542:PRO:C	3:V:1544:PRO:N	2.68	0.47
4:X:140:LYS:CA	4:X:149:GLY:HA2	2.44	0.47
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.47
3:D:341:SER:C	3:D:343:LEU:H	2.22	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.15	0.47
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.47
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.47
3:D:341:SER:C	3:D:343:LEU:H	2.22	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.47
6:T:477:ILE:O	6:T:480:ALA:HB3	2.15	0.47
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
3:D:341:SER:C	3:D:343:LEU:H	2.22	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.47
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.47
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.47
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.47
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.47
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.47
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.47
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
4:X:367:THR:C	4:X:367:THR:CB	2.78	0.47
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.47
3:D:341:SER:C	3:D:343:LEU:H	2.22	0.47
3:J:1537:GLN:O	3:J:1538:SER:C	2.56	0.47
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.47
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1489:HIS:O	3:V:1492:GLY:N	2.48	0.47
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.46
4:X:200:THR:C	4:X:202:ILE:N	2.70	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
2:O:726:SER:HA	1:W:85:ARG:CA	2.45	0.46
1:Q:1309:SER:HA	3:V:174:THR:HA	1.96	0.46
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.46
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.46
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.46
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.46
4:X:140:LYS:HA	4:X:149:GLY:CA	2.45	0.46
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.46
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.14	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
6:N:490:GLN:CB	6:N:490:GLN:N	2.59	0.46
2:O:726:SER:HA	1:W:85:ARG:CA	2.45	0.46
1:Q:1309:SER:HA	3:V:174:THR:HA	1.96	0.46
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.46
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.46
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.46
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
2:O:726:SER:HA	1:W:85:ARG:CA	2.45	0.46
1:Q:1309:SER:HA	3:V:174:THR:HA	1.96	0.46
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.46
4:X:140:LYS:HA	4:X:149:GLY:CA	2.45	0.46
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.46
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.14	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
2:O:726:SER:HA	1:W:85:ARG:CA	2.45	0.46
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.46
1:Q:1309:SER:HA	3:V:174:THR:HA	1.96	0.46
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.46
4:X:140:LYS:HA	4:X:149:GLY:CA	2.45	0.46
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.46
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.14	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
2:O:726:SER:HA	1:W:85:ARG:CA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1537:GLN:C	3:P:1539:LEU:N	2.69	0.46
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.46
4:X:140:LYS:HA	4:X:149:GLY:CA	2.45	0.46
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.46
6:Z:477:ILE:O	6:Z:480:ALA:HB3	2.14	0.46
6:N:490:GLN:CB	6:N:490:GLN:N	2.59	0.46
2:O:726:SER:HA	1:W:85:ARG:CA	2.45	0.46
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.46
1:B:38:ARG:HA	1:B:484:THR:CB	2.45	0.46
2:C:724:GLN:C	2:C:726:SER:H	2.23	0.46
4:R:140:LYS:HA	4:R:149:GLY:CA	2.44	0.46
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
4:X:197:LYS:CB	4:X:201:GLU:CB	2.92	0.46
4:X:211:GLU:HA	4:X:214:HIS:CB	2.45	0.46
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.46
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.46
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.46
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.46
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.46
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.46
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.46
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.46
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.46
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.46
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.46
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.46
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.46
1:A:38:ARG:HA	1:A:484:THR:CB	2.45	0.46
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.46
3:D:1489:HIS:O	3:D:1492:GLY:N	2.48	0.46
4:L:211:GLU:HA	4:L:214:HIS:CB	2.46	0.46
2:O:724:GLN:C	2:O:726:SER:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:490:LEU:O	4:R:493:HIS:N	2.43	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.22	0.46
4:X:140:LYS:HA	4:X:149:GLY:CA	2.44	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
6:N:477:ILE:O	6:N:480:ALA:HB3	2.15	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.23	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.46
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.23	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.63	0.46
6:N:477:ILE:O	6:N:480:ALA:HB3	2.15	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.23	0.46
6:N:477:ILE:O	6:N:480:ALA:HB3	2.15	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.23	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
6:N:477:ILE:O	6:N:480:ALA:HB3	2.15	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.23	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.46
5:M:340:ALA:O	5:M:341:ALA:CB	2.62	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
2:U:724:GLN:C	2:U:726:SER:H	2.23	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
5:Y:340:ALA:O	5:Y:341:ALA:CB	2.63	0.46
2:C:535:TYR:CB	3:D:1662:CYS:O	2.63	0.46
2:C:679:ILE:C	1:K:850:ALA:O	2.59	0.46
3:D:1542:PRO:C	3:D:1544:PRO:N	2.68	0.46
4:F:140:LYS:HA	4:F:149:GLY:CA	2.44	0.46
3:J:1489:HIS:O	3:J:1492:GLY:N	2.48	0.46
4:L:447:VAL:CB	4:L:447:VAL:C	2.77	0.46
5:M:318:GLU:C	5:M:320:LYS:N	2.71	0.46
5:M:322:ALA:O	5:M:325:ALA:HB3	2.14	0.46
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.46
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.46
6:Z:374:SER:CB	6:Z:374:SER:H	2.25	0.46
4:F:450:GLU:O	4:F:451:GLU:CA	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1491:ILE:C	3:J:1493:ARG:N	2.73	0.46
2:O:303:ALA:HB1	2:O:306:PRO:CA	2.46	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.46
4:F:450:GLU:O	4:F:451:GLU:CA	2.33	0.46
3:J:1491:ILE:C	3:J:1493:ARG:N	2.73	0.46
4:L:140:LYS:HA	4:L:149:GLY:CA	2.44	0.46
2:O:303:ALA:HB1	2:O:306:PRO:CA	2.46	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.46
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.46
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.46
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.46
3:J:1491:ILE:C	3:J:1493:ARG:N	2.73	0.46
2:O:303:ALA:HB1	2:O:306:PRO:CA	2.46	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.46
3:J:1491:ILE:C	3:J:1493:ARG:N	2.73	0.46
2:O:303:ALA:HB1	2:O:306:PRO:CA	2.46	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.46
1:E:852:VAL:CB	2:O:304:PRO:CA	2.47	0.46
3:J:1491:ILE:C	3:J:1493:ARG:N	2.73	0.46
2:O:303:ALA:HB1	2:O:306:PRO:CA	2.46	0.46
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.46
1:E:852:VAL:CB	2:O:304:PRO:CA	2.47	0.46
3:J:1491:ILE:C	3:J:1493:ARG:N	2.73	0.46
4:L:140:LYS:HA	4:L:149:GLY:CA	2.44	0.46
2:O:303:ALA:HB1	2:O:306:PRO:CA	2.46	0.46
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46
3:V:1537:GLN:O	3:V:1538:SER:C	2.56	0.46
4:X:489:LYS:O	4:X:492:GLU:N	2.48	0.46
4:X:492:GLU:C	4:X:493:HIS:CA	2.84	0.46
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.46
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
2:U:234:LEU:C	2:U:252:MET:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:785:LEU:HA	1:K:131:GLY:O	2.14	0.46
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.46
2:O:726:SER:HA	1:W:85:ARG:C	2.38	0.46
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.46
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
2:C:785:LEU:HA	1:K:131:GLY:O	2.14	0.46
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.46
2:O:726:SER:HA	1:W:85:ARG:C	2.38	0.46
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.46
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.46
2:C:785:LEU:HA	1:K:131:GLY:O	2.14	0.46
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.46
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.46
2:O:726:SER:HA	1:W:85:ARG:C	2.38	0.46
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.46
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.46
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
2:C:785:LEU:HA	1:K:131:GLY:O	2.14	0.46
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.46
2:O:726:SER:HA	1:W:85:ARG:C	2.38	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
1:Q:38:ARG:HA	1:Q:484:THR:CB	2.45	0.46
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
2:C:785:LEU:HA	1:K:131:GLY:O	2.14	0.46
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.46
2:O:726:SER:HA	1:W:85:ARG:C	2.38	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
2:C:785:LEU:HA	1:K:131:GLY:O	2.14	0.46
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.46
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:726:SER:HA	1:W:85:ARG:C	2.38	0.46
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.46
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.46
1:W:38:ARG:HA	1:W:484:THR:CB	2.45	0.46
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.46
4:F:328:VAL:C	4:F:328:VAL:N	2.68	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.73	0.46
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.46
6:H:477:ILE:O	6:H:480:ALA:HB3	2.15	0.46
2:O:590:ASP:O	1:W:849:ASN:CB	2.64	0.46
2:O:788:GLN:HA	1:W:131:GLY:HA3	1.66	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
1:Q:1232:SER:HA	1:W:579:GLU:CB	2.44	0.46
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.46
4:F:492:GLU:CB	4:F:492:GLU:O	2.63	0.46
6:H:477:ILE:O	6:H:480:ALA:HB3	2.15	0.46
2:O:590:ASP:O	1:W:849:ASN:CB	2.64	0.46
2:O:788:GLN:HA	1:W:131:GLY:HA3	1.66	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
1:Q:1232:SER:HA	1:W:579:GLU:CB	2.44	0.46
4:R:492:GLU:CB	4:R:492:GLU:O	2.63	0.46
2:O:590:ASP:O	1:W:849:ASN:CB	2.64	0.46
2:O:788:GLN:HA	1:W:131:GLY:HA3	1.66	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
1:Q:1232:SER:HA	1:W:579:GLU:CB	2.44	0.46
2:O:590:ASP:O	1:W:849:ASN:CB	2.64	0.46
2:O:788:GLN:HA	1:W:131:GLY:HA3	1.66	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
1:Q:1232:SER:HA	1:W:579:GLU:CB	2.44	0.46
2:O:590:ASP:O	1:W:849:ASN:CB	2.64	0.46
2:O:788:GLN:HA	1:W:131:GLY:HA3	1.66	0.46
2:O:590:ASP:O	1:W:849:ASN:CB	2.64	0.46
2:O:788:GLN:HA	1:W:131:GLY:HA3	1.66	0.46
3:P:812:GLU:C	3:P:814:PRO:N	2.74	0.46
2:C:15:GLN:CA	2:C:16:LEU:N	2.71	0.46
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.46
6:H:463:ALA:N	6:H:463:ALA:C	2.65	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.46
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.46
4:X:460:LEU:CB	6:Z:470:PRO:C	2.89	0.46
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:711:PHE:CB	1:K:133:ASP:CB	2.94	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.46
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.46
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.46
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.46
2:C:711:PHE:CB	1:K:133:ASP:CB	2.94	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.46
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.46
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.46
2:C:711:PHE:CB	1:K:133:ASP:CB	2.94	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.46
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.46
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.46
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.46
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.46
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.46
2:C:711:PHE:CB	1:K:133:ASP:CB	2.94	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.46
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.46
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.46
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.46
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.46
2:C:711:PHE:CB	1:K:133:ASP:CB	2.94	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.46
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.46
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.46
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.46
2:C:711:PHE:CB	1:K:133:ASP:CB	2.94	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
4:F:489:LYS:O	4:F:492:GLU:N	2.48	0.46
2:I:724:GLN:C	2:I:726:SER:H	2.23	0.46
4:L:492:GLU:CB	4:L:492:GLU:O	2.63	0.46
3:P:1542:PRO:C	3:P:1544:PRO:N	2.68	0.46
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.46
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.46
3:V:1537:GLN:C	3:V:1539:LEU:N	2.69	0.46
3:D:1504:VAL:O	3:D:1505:SER:C	2.39	0.46
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.46
1:E:38:ARG:HA	1:E:484:THR:CB	2.45	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
6:H:406:LEU:C	6:H:408:SER:N	2.61	0.46
1:Q:1355:ASP:O	3:V:868:ARG:O	2.32	0.46
4:R:460:LEU:CB	6:T:470:PRO:C	2.89	0.46
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.46
2:C:722:LEU:CB	1:K:128:TYR:O	2.63	0.46
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.46
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.46
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.46
2:C:722:LEU:CB	1:K:128:TYR:O	2.63	0.46
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.46
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.46
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.46
2:C:722:LEU:CB	1:K:128:TYR:O	2.63	0.46
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.46
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.46
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.46
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.46
2:C:722:LEU:CB	1:K:128:TYR:O	2.63	0.46
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.46
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.46
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.46
2:C:722:LEU:CB	1:K:128:TYR:O	2.63	0.46
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.46
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.46
6:Z:462:GLY:CA	6:Z:462:GLY:O	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:722:LEU:CB	1:K:128:TYR:O	2.63	0.46
3:D:1544:PRO:C	3:D:1546:LEU:N	2.72	0.46
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.46
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.46
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.46
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.46
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.46
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.46
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.46
3:V:1502:ARG:O	3:V:1503:ILE:C	2.58	0.46
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.46
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.46
2:C:709:ARG:CA	1:K:195:SER:O	2.62	0.46
2:C:788:GLN:HA	1:K:131:GLY:HA3	1.71	0.46
3:D:1446:LYS:HA	3:P:1450:GLU:CA	2.39	0.46
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.46
4:L:140:LYS:HA	4:L:149:GLY:CA	2.45	0.46
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.46
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.46
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.46
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.46
2:C:709:ARG:CA	1:K:195:SER:O	2.62	0.46
2:C:788:GLN:HA	1:K:131:GLY:HA3	1.71	0.46
3:D:1446:LYS:HA	3:P:1450:GLU:CA	2.39	0.46
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.46
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.46
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.46
2:C:709:ARG:CA	1:K:195:SER:O	2.62	0.46
2:C:788:GLN:HA	1:K:131:GLY:HA3	1.71	0.46
3:D:1446:LYS:HA	3:P:1450:GLU:CA	2.39	0.46
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.46
4:L:140:LYS:HA	4:L:149:GLY:CA	2.45	0.46
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.46
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.46
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.46
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.46
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.46
2:C:709:ARG:CA	1:K:195:SER:O	2.62	0.46
2:C:788:GLN:HA	1:K:131:GLY:HA3	1.71	0.46
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.46
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:140:LYS:HA	4:L:149:GLY:CA	2.45	0.46
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.46
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.46
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.46
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.46
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.46
2:C:709:ARG:CA	1:K:195:SER:O	2.62	0.46
2:C:788:GLN:HA	1:K:131:GLY:HA3	1.71	0.46
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.46
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.46
4:L:140:LYS:HA	4:L:149:GLY:CA	2.45	0.46
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.46
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.46
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.46
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.46
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.46
2:C:709:ARG:CA	1:K:195:SER:O	2.62	0.46
2:C:788:GLN:HA	1:K:131:GLY:HA3	1.71	0.46
3:D:1446:LYS:HA	3:P:1450:GLU:CA	2.39	0.46
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.46
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.46
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.46
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.46
4:F:211:GLU:HA	4:F:214:HIS:CB	2.45	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
2:O:15:GLN:CA	2:O:16:LEU:N	2.71	0.46
3:P:254:GLU:C	3:P:256:VAL:H	2.24	0.46
3:P:1491:ILE:O	3:P:1492:GLY:C	2.53	0.46
6:Z:406:LEU:C	6:Z:408:SER:N	2.62	0.46
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
6:H:406:LEU:C	6:H:408:SER:N	2.62	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.74	0.46
3:J:812:GLU:C	3:J:814:PRO:N	2.74	0.46
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.46
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.46
5:M:342:PRO:O	5:M:344:ASP:N	2.49	0.46
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.46
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.46
1:Q:1239:ASP:C	1:W:572:ALA:CB	2.89	0.46
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:812:GLU:C	3:V:814:PRO:N	2.74	0.46
5:Y:342:PRO:O	5:Y:344:ASP:N	2.50	0.46
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.46
4:F:460:LEU:CB	6:H:470:PRO:C	2.89	0.46
6:H:406:LEU:C	6:H:408:SER:N	2.62	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.74	0.46
3:J:812:GLU:C	3:J:814:PRO:N	2.74	0.46
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.46
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.46
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.46
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.46
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.46
1:Q:1239:ASP:C	1:W:572:ALA:CB	2.89	0.46
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.46
3:V:812:GLU:C	3:V:814:PRO:N	2.74	0.46
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.46
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.74	0.46
3:J:812:GLU:C	3:J:814:PRO:N	2.74	0.46
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.46
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.46
5:M:342:PRO:O	5:M:344:ASP:N	2.49	0.46
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.46
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.46
1:Q:1239:ASP:C	1:W:572:ALA:CB	2.89	0.46
3:V:812:GLU:C	3:V:814:PRO:N	2.74	0.46
5:Y:342:PRO:O	5:Y:344:ASP:N	2.50	0.46
3:D:812:GLU:C	3:D:814:PRO:N	2.74	0.46
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.74	0.46
3:J:812:GLU:C	3:J:814:PRO:N	2.74	0.46
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.46
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.46
5:M:342:PRO:O	5:M:344:ASP:N	2.49	0.46
1:Q:1239:ASP:C	1:W:572:ALA:CB	2.89	0.46
3:V:812:GLU:C	3:V:814:PRO:N	2.74	0.46
5:Y:342:PRO:O	5:Y:344:ASP:N	2.50	0.46
2:C:301:LEU:C	1:Q:849:ASN:H	2.23	0.46
3:D:812:GLU:C	3:D:814:PRO:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1348:ARG:N	1:K:957:GLU:N	2.64	0.46
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.74	0.46
3:J:812:GLU:C	3:J:814:PRO:N	2.74	0.46
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.46
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.46
5:M:342:PRO:O	5:M:344:ASP:N	2.49	0.46
3:V:812:GLU:C	3:V:814:PRO:N	2.74	0.46
5:Y:342:PRO:O	5:Y:344:ASP:N	2.50	0.46
2:C:301:LEU:C	1:Q:849:ASN:H	2.23	0.46
3:D:1502:ARG:O	3:D:1503:ILE:C	2.58	0.46
1:E:1348:ARG:N	1:K:957:GLU:N	2.64	0.46
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.46
5:G:374:GLN:HA	5:G:377:ASN:CB	2.46	0.46
2:I:234:LEU:C	2:I:252:MET:N	2.74	0.46
3:J:812:GLU:C	3:J:814:PRO:N	2.74	0.46
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.46
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.46
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.46
3:P:1509:GLN:O	3:P:1510:GLN:C	2.45	0.46
3:P:1544:PRO:C	3:P:1546:LEU:N	2.72	0.46
3:V:812:GLU:C	3:V:814:PRO:N	2.74	0.46
3:D:254:GLU:C	3:D:256:VAL:H	2.24	0.45
4:L:460:LEU:CB	6:N:470:PRO:C	2.89	0.45
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.45
6:N:477:ILE:O	6:N:480:ALA:HB3	2.15	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.16	0.45
4:R:140:LYS:CA	4:R:149:GLY:CA	2.94	0.45
6:T:408:SER:C	6:T:410:LEU:N	2.74	0.45
3:V:1491:ILE:C	3:V:1493:ARG:N	2.72	0.45
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.45
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.45
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.45
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.45
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.45
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
4:R:450:GLU:O	4:R:451:GLU:CA	2.33	0.45
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:140:LYS:CA	4:F:149:GLY:CA	2.94	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
4:R:450:GLU:O	4:R:451:GLU:CA	2.33	0.45
5:S:374:GLN:HA	5:S:377:ASN:CB	2.46	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45
4:X:328:VAL:C	4:X:328:VAL:N	2.68	0.45
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.45
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.45
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.45
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.45
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.45
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.45
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.17	0.45
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45
3:D:1537:GLN:O	3:D:1538:SER:C	2.56	0.45
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.45
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.45
6:N:408:SER:C	6:N:410:LEU:N	2.74	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.17	0.45
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45
4:X:328:VAL:C	4:X:328:VAL:N	2.68	0.45
4:X:492:GLU:CB	4:X:492:GLU:O	2.63	0.45
2:C:234:LEU:C	2:C:252:MET:N	2.74	0.45
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.45
1:K:38:ARG:HA	1:K:484:THR:CB	2.45	0.45
4:R:489:LYS:O	4:R:492:GLU:N	2.48	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.45
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.45
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.45
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.45
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.45
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
3:P:1513:LEU:O	3:P:1514:LEU:C	2.50	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
6:Z:490:GLN:CB	6:Z:490:GLN:N	2.59	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.45
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.45
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.45
3:J:1487:ASP:O	3:J:1490:GLU:N	2.49	0.45
4:L:200:THR:C	4:L:202:ILE:N	2.70	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
2:C:779:GLU:HA	1:K:122:ASP:CA	2.42	0.45
3:D:812:GLU:C	3:D:814:PRO:N	2.74	0.45
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.45
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.45
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.45
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
2:C:779:GLU:HA	1:K:122:ASP:CA	2.42	0.45
3:D:812:GLU:C	3:D:814:PRO:N	2.74	0.45
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.45
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.45
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.45
5:Y:342:PRO:O	5:Y:344:ASP:N	2.50	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
2:C:779:GLU:HA	1:K:122:ASP:CA	2.42	0.45
3:D:812:GLU:C	3:D:814:PRO:N	2.74	0.45
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.45
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.45
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.45
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
2:C:779:GLU:HA	1:K:122:ASP:CA	2.42	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.45
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.45
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
2:C:779:GLU:HA	1:K:122:ASP:CA	2.42	0.45
1:E:849:ASN:H	2:O:301:LEU:C	2.23	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
3:P:1537:GLN:O	3:P:1538:SER:C	2.56	0.45
4:X:367:THR:CA	4:X:367:THR:O	2.53	0.45
5:Y:374:GLN:HA	5:Y:377:ASN:CB	2.46	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
2:C:779:GLU:HA	1:K:122:ASP:CA	2.42	0.45
3:D:812:GLU:C	3:D:814:PRO:N	2.74	0.45
1:E:849:ASN:H	2:O:301:LEU:C	2.23	0.45
4:L:459:LEU:C	4:L:459:LEU:N	2.63	0.45
3:P:1502:ARG:O	3:P:1503:ILE:C	2.58	0.45
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.45
4:X:455:ILE:C	4:X:457:ALA:H	2.15	0.45
5:Y:342:PRO:O	5:Y:344:ASP:N	2.50	0.45
2:C:307:GLY:N	1:Q:849:ASN:CB	2.79	0.45
4:F:198:LYS:C	4:F:200:THR:N	2.58	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.16	0.45
4:L:140:LYS:CA	4:L:149:GLY:CA	2.94	0.45
5:M:342:PRO:O	5:M:344:ASP:N	2.50	0.45
2:O:234:LEU:CB	2:O:250:VAL:O	2.65	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.45
2:C:676:ALA:O	1:K:796:LYS:O	2.35	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
5:Y:339:TYR:C	5:Y:340:ALA:C	2.50	0.45
2:C:676:ALA:O	1:K:796:LYS:O	2.35	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
5:M:342:PRO:O	5:M:344:ASP:N	2.50	0.45
2:C:676:ALA:O	1:K:796:LYS:O	2.35	0.45
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
5:Y:339:TYR:C	5:Y:340:ALA:C	2.50	0.45
2:C:676:ALA:O	1:K:796:LYS:O	2.35	0.45
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.45
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.50	0.45
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.45
5:Y:339:TYR:C	5:Y:340:ALA:C	2.50	0.45
2:C:676:ALA:O	1:K:796:LYS:O	2.35	0.45
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.45
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.50	0.45
3:P:1493:ARG:O	3:P:1494:MET:C	2.47	0.45
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.71	0.45
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.45
5:Y:339:TYR:C	5:Y:340:ALA:C	2.50	0.45
2:C:676:ALA:O	1:K:796:LYS:O	2.35	0.45
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.45
2:I:234:LEU:C	2:I:252:MET:CA	2.90	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
5:M:342:PRO:O	5:M:344:ASP:N	2.50	0.45
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.71	0.45
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.45
5:G:325:ALA:C	5:G:325:ALA:HA	2.15	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:655:ALA:O	3:P:1447:THR:CB	2.64	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.45
1:Q:1259:PRO:O	3:V:692:ASN:CB	2.65	0.45
4:R:405:ALA:HB3	4:R:406:ASP:H	1.17	0.45
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:303:ALA:HB1	2:U:306:PRO:CA	2.46	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
4:X:140:LYS:CA	4:X:149:GLY:CA	2.94	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.45
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.45
5:G:341:ALA:N	5:G:341:ALA:C	2.68	0.45
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.45
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.45
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.45
5:G:341:ALA:N	5:G:341:ALA:C	2.68	0.45
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.45
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
6:Z:408:SER:C	6:Z:410:LEU:N	2.74	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.45
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.45
2:C:234:LEU:C	2:C:252:MET:CA	2.90	0.45
2:C:234:LEU:CB	2:C:250:VAL:O	2.65	0.45
4:F:200:THR:C	4:F:202:ILE:N	2.70	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
6:N:374:SER:CB	6:N:374:SER:H	2.25	0.45
2:O:234:LEU:C	2:O:252:MET:N	2.74	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:D:1449:TRP:CB	3:P:1446:LYS:O	2.64	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.45
4:R:148:TRP:C	4:R:150:THR:N	2.74	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
3:D:1449:TRP:CB	3:P:1446:LYS:O	2.64	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.45
4:R:148:TRP:C	4:R:150:THR:N	2.74	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
3:D:1449:TRP:CB	3:P:1446:LYS:O	2.64	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45
5:M:374:GLN:HA	5:M:377:ASN:CB	2.46	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
1:Q:1348:ARG:N	1:W:957:GLU:N	2.64	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
3:D:1449:TRP:CB	3:P:1446:LYS:O	2.64	0.45
2:I:503:LEU:O	2:I:504:LYS:CB	2.64	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45
2:O:234:LEU:C	2:O:252:MET:CA	2.90	0.45
3:P:1494:MET:CB	3:P:1551:TYR:CB	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1517:SER:O	3:P:1518:ASN:C	2.51	0.45
1:Q:1348:ARG:N	1:W:957:GLU:N	2.64	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
3:V:1482:CYS:O	3:V:1485:ALA:HB3	2.17	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
6:H:462:GLY:CA	6:H:462:GLY:O	2.51	0.45
2:I:303:ALA:HB1	2:I:306:PRO:CA	2.46	0.45
3:J:254:GLU:C	3:J:256:VAL:H	2.25	0.45
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.45
3:P:1491:ILE:C	3:P:1493:ARG:N	2.72	0.45
1:Q:1308:LYS:CB	3:V:804:SER:CB	2.95	0.45
1:Q:1355:ASP:N	3:V:872:LEU:CA	2.79	0.45
3:V:1487:ASP:O	3:V:1490:GLU:N	2.49	0.45
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.45
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.45
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.45
2:I:645:LEU:CA	3:J:1450:GLU:CB	2.92	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.17	0.45
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.45
6:N:490:GLN:CB	6:N:490:GLN:N	2.58	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.45
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.45
2:I:645:LEU:CA	3:J:1450:GLU:CB	2.92	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.17	0.45
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.45
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.45
4:L:450:GLU:O	4:L:451:GLU:CA	2.33	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.45
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.45
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.45
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.45
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.45
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.45
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.45
2:I:645:LEU:CA	3:J:1450:GLU:CB	2.92	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.17	0.45
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:490:GLN:CB	6:N:490:GLN:N	2.58	0.45
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.45
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.45
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.45
2:I:645:LEU:CA	3:J:1450:GLU:CB	2.92	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.17	0.45
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.45
6:N:490:GLN:CB	6:N:490:GLN:N	2.58	0.45
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.45
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.45
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.45
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.45
2:I:645:LEU:CA	3:J:1450:GLU:CB	2.92	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.17	0.45
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.45
6:N:490:GLN:CB	6:N:490:GLN:N	2.58	0.45
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.45
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.45
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.45
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.45
2:I:645:LEU:CA	3:J:1450:GLU:CB	2.92	0.45
3:J:1482:CYS:O	3:J:1485:ALA:HB3	2.17	0.45
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.45
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.45
4:L:450:GLU:O	4:L:451:GLU:CA	2.33	0.45
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.45
2:U:503:LEU:O	2:U:504:LYS:CB	2.64	0.45
3:V:1544:PRO:C	3:V:1546:LEU:N	2.72	0.45
4:X:158:ASN:CA	4:X:321:LYS:O	2.62	0.45
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.45
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.45
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
1:B:404:LYS:HA	1:B:405:PRO:HA	1.70	0.45
2:C:524:ARG:CA	3:D:1610:PRO:HA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
2:I:618:ASN:HA	3:J:1443:ALA:CA	2.47	0.45
3:J:1494:MET:CB	3:J:1551:TYR:CB	2.95	0.45
2:O:653:ILE:CB	3:P:1456:GLU:CB	2.95	0.45
5:Y:325:ALA:CA	5:Y:326:LEU:N	2.69	0.45
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.45
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.45
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.45
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.45
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.45
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.45
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.45
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.45
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.45
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.45
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.45
5:S:326:LEU:N	5:S:326:LEU:CB	2.72	0.45
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.45
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.45
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.45
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.45
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.45
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.45
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.45
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.45
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.45
3:D:1544:PRO:C	3:D:1546:LEU:H	2.24	0.45
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.45
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.45
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.45
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.45
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.45
2:I:231:THR:C	2:I:233:VAL:N	2.75	0.45
4:L:489:LYS:O	4:L:492:GLU:N	2.48	0.45
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.45
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.45
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.45
3:V:1494:MET:CB	3:V:1551:TYR:CB	2.95	0.45
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.45
1:E:1164:GLN:CA	1:K:726:GLN:CB	2.94	0.45
6:H:408:SER:C	6:H:410:LEU:N	2.74	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.45
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.45
1:Q:1355:ASP:N	3:V:871:GLN:C	2.75	0.45
4:R:367:THR:CA	4:R:367:THR:O	2.53	0.45
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.45
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
5:Y:318:GLU:C	5:Y:320:LYS:N	2.71	0.45
3:D:1510:GLN:CB	3:P:1468:ALA:CB	2.92	0.45
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.45
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.17	0.45
2:U:15:GLN:CA	2:U:16:LEU:N	2.71	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:645:LEU:CA	3:V:1450:GLU:CB	2.93	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
3:V:1511:GLN:O	3:V:1512:TRP:C	2.57	0.45
3:D:1510:GLN:CB	3:P:1468:ALA:CB	2.92	0.45
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.45
4:F:488:ILE:N	4:F:488:ILE:CB	2.66	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.17	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:645:LEU:CA	3:V:1450:GLU:CB	2.93	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1511:GLN:O	3:V:1512:TRP:C	2.57	0.45
3:D:1510:GLN:CB	3:P:1468:ALA:CB	2.92	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.17	0.45
2:U:15:GLN:CA	2:U:16:LEU:N	2.71	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:645:LEU:CA	3:V:1450:GLU:CB	2.93	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
3:V:1511:GLN:O	3:V:1512:TRP:C	2.57	0.45
2:U:15:GLN:CA	2:U:16:LEU:N	2.71	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:645:LEU:CA	3:V:1450:GLU:CB	2.93	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
3:V:1511:GLN:O	3:V:1512:TRP:C	2.57	0.45
2:U:15:GLN:CA	2:U:16:LEU:N	2.71	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:645:LEU:CA	3:V:1450:GLU:CB	2.93	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
3:V:1511:GLN:O	3:V:1512:TRP:C	2.57	0.45
3:D:1510:GLN:CB	3:P:1468:ALA:CB	2.92	0.45
3:P:1482:CYS:O	3:P:1485:ALA:HB3	2.17	0.45
2:U:234:LEU:C	2:U:252:MET:CA	2.90	0.45
2:U:645:LEU:CA	3:V:1450:GLU:CB	2.93	0.45
2:U:806:ASP:C	2:U:808:ASN:H	2.25	0.45
3:V:1511:GLN:O	3:V:1512:TRP:C	2.57	0.45
2:C:675:ARG:CB	1:K:848:ASP:CB	2.83	0.45
5:G:342:PRO:O	5:G:344:ASP:N	2.49	0.45
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.45
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.49	0.45
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.45
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.49	0.45
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.49	0.45
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.45
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.45
5:Y:378:SER:CA	5:Y:378:SER:O	2.51	0.45
1:B:395:GLY:N	1:B:400:SER:CB	2.80	0.45
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.45
3:D:1494:MET:CB	3:D:1551:TYR:CB	2.95	0.45
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.45
2:I:806:ASP:C	2:I:808:ASN:H	2.25	0.45
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.45
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.45
3:P:1487:ASP:O	3:P:1490:GLU:N	2.49	0.45
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.44
1:K:1170:SER:C	1:K:1172:GLN:H	2.24	0.44
1:Q:1306:LEU:O	3:V:732:PHE:N	2.44	0.44
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.44
2:U:234:LEU:CB	2:U:250:VAL:O	2.65	0.44
2:C:780:ASP:CB	1:K:136:TYR:CB	2.95	0.44
3:D:1446:LYS:O	3:P:1449:TRP:CB	2.65	0.44
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.44
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.44
5:G:342:PRO:O	5:G:344:ASP:N	2.50	0.44
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.44
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:174:GLY:CA	3:P:1682:LYS:HA	2.30	0.44
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.44
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.44
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.44
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.44
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.44
2:C:780:ASP:CB	1:K:136:TYR:CB	2.95	0.44
3:D:1446:LYS:O	3:P:1449:TRP:CB	2.65	0.44
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.44
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.44
5:G:342:PRO:O	5:G:344:ASP:N	2.50	0.44
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.44
4:L:422:ASN:CB	4:L:423:ALA:CB	2.94	0.44
2:O:174:GLY:CA	3:P:1682:LYS:HA	2.30	0.44
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.44
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.44
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.44
2:C:780:ASP:CB	1:K:136:TYR:CB	2.95	0.44
3:D:1446:LYS:O	3:P:1449:TRP:CB	2.65	0.44
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.44
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.44
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.44
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.44
2:O:174:GLY:CA	3:P:1682:LYS:HA	2.30	0.44
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.44
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.44
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.44
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.44
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.44
2:C:780:ASP:CB	1:K:136:TYR:CB	2.95	0.44
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.44
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.44
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.44
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.44
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.44
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.44
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.44
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.44
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.44
2:C:780:ASP:CB	1:K:136:TYR:CB	2.95	0.44
3:D:1515:TYR:O	3:D:1516:LEU:C	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.44
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.44
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.44
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.44
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.44
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.44
5:Y:341:ALA:N	5:Y:341:ALA:C	2.68	0.44
2:C:780:ASP:CB	1:K:136:TYR:CB	2.95	0.44
3:D:1446:LYS:O	3:P:1449:TRP:CB	2.65	0.44
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.44
3:J:1544:PRO:C	3:J:1546:LEU:H	2.24	0.44
4:L:422:ASN:CB	4:L:423:ALA:CB	2.94	0.44
2:O:174:GLY:CA	3:P:1682:LYS:HA	2.30	0.44
2:U:231:THR:C	2:U:233:VAL:N	2.75	0.44
3:V:1515:TYR:O	3:V:1516:LEU:C	2.57	0.44
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.44
2:I:234:LEU:CB	2:I:250:VAL:O	2.65	0.44
4:L:447:VAL:O	4:L:450:GLU:CA	2.65	0.44
4:X:222:THR:CB	4:X:222:THR:O	2.62	0.44
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.44
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.44
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
2:O:779:GLU:HA	1:W:122:ASP:CA	2.42	0.44
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.44
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.44
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.44
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.44
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
2:O:779:GLU:HA	1:W:122:ASP:CA	2.42	0.44
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.44
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.44
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.44
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.44
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
2:O:779:GLU:HA	1:W:122:ASP:CA	2.42	0.44
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.44
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.44
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.44
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
2:O:779:GLU:HA	1:W:122:ASP:CA	2.42	0.44
1:Q:1170:SER:C	1:Q:1172:GLN:H	2.24	0.44
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.44
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.44
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.44
5:M:332:PRO:O	5:M:335:LEU:HA	2.17	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
2:O:779:GLU:HA	1:W:122:ASP:CA	2.42	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
1:Q:942:PRO:HA	1:Q:943:GLN:HA	1.48	0.44
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.44
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.44
3:J:1515:TYR:O	3:J:1516:LEU:C	2.57	0.44
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.44
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
2:O:779:GLU:HA	1:W:122:ASP:CA	2.42	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
1:Q:942:PRO:HA	1:Q:943:GLN:HA	1.48	0.44
5:S:342:PRO:O	5:S:344:ASP:N	2.50	0.44
1:W:395:GLY:N	1:W:400:SER:CB	2.80	0.44
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.44
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.44
2:C:678:GLY:CA	1:K:847:ARG:CB	2.83	0.44
3:J:1502:ARG:O	3:J:1503:ILE:C	2.58	0.44
1:K:395:GLY:N	1:K:400:SER:CB	2.80	0.44
4:L:455:ILE:C	4:L:457:ALA:H	2.15	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.44
6:T:374:SER:CB	6:T:374:SER:H	2.26	0.44
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.44
4:X:447:VAL:O	4:X:450:GLU:CA	2.65	0.44
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.44
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.44
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.44
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.44
4:L:405:ALA:HB3	4:L:406:ASP:H	1.16	0.44
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:486:GLU:O	4:R:487:ASP:C	2.60	0.44
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.44
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.44
4:R:486:GLU:O	4:R:487:ASP:C	2.60	0.44
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.44
4:L:140:LYS:CB	4:L:149:GLY:HA2	2.47	0.44
4:R:486:GLU:O	4:R:487:ASP:C	2.60	0.44
5:Y:332:PRO:O	5:Y:335:LEU:HA	2.17	0.44
4:L:405:ALA:HB3	4:L:406:ASP:H	1.16	0.44
4:R:486:GLU:O	4:R:487:ASP:C	2.60	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
1:E:1170:SER:C	1:E:1172:GLN:H	2.24	0.44
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.44
1:Q:1264:LEU:C	3:V:686:GLY:O	2.61	0.44
4:R:198:LYS:C	4:R:200:THR:N	2.58	0.44
4:R:488:ILE:N	4:R:488:ILE:CB	2.66	0.44
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.44
2:C:591:GLY:H	1:K:851:ALA:HB3	1.82	0.44
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.44
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.44
2:C:591:GLY:H	1:K:851:ALA:HB3	1.82	0.44
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.44
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.44
2:C:591:GLY:H	1:K:851:ALA:HB3	1.82	0.44
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.44
5:G:326:LEU:C	5:G:327:ARG:HA	2.28	0.44
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.44
2:C:173:PRO:CA	3:D:1681:SER:O	2.64	0.44
2:C:591:GLY:H	1:K:851:ALA:HB3	1.82	0.44
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.44
5:G:326:LEU:C	5:G:327:ARG:HA	2.28	0.44
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.44
2:C:173:PRO:CA	3:D:1681:SER:O	2.64	0.44
2:C:591:GLY:H	1:K:851:ALA:HB3	1.82	0.44
1:E:404:LYS:HA	1:E:405:PRO:HA	1.71	0.44
5:G:326:LEU:C	5:G:327:ARG:HA	2.28	0.44
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.44
2:C:591:GLY:H	1:K:851:ALA:HB3	1.82	0.44
1:E:404:LYS:HA	1:E:405:PRO:HA	1.71	0.44
5:G:326:LEU:C	5:G:327:ARG:HA	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1513:LEU:O	3:V:1514:LEU:C	2.50	0.44
1:A:404:LYS:HA	1:A:405:PRO:HA	1.70	0.44
2:C:303:ALA:HB1	2:C:306:PRO:CA	2.46	0.44
4:F:405:ALA:HB3	4:F:406:ASP:H	1.17	0.44
4:F:447:VAL:O	4:F:450:GLU:CA	2.65	0.44
4:X:459:LEU:C	4:X:459:LEU:N	2.63	0.44
2:C:305:LEU:HA	1:Q:847:ARG:CB	2.47	0.44
1:E:1233:VAL:CB	1:K:579:GLU:CB	2.95	0.44
4:L:148:TRP:C	4:L:150:THR:N	2.74	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.75	0.44
4:R:405:ALA:HB3	4:R:406:ASP:H	1.16	0.44
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.44
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.44
2:C:305:LEU:HA	1:Q:847:ARG:CB	2.47	0.44
1:E:1233:VAL:CB	1:K:579:GLU:CB	2.95	0.44
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.75	0.44
4:R:405:ALA:HB3	4:R:406:ASP:H	1.16	0.44
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.44
2:C:305:LEU:HA	1:Q:847:ARG:CB	2.47	0.44
1:E:1233:VAL:CB	1:K:579:GLU:CB	2.95	0.44
4:L:148:TRP:C	4:L:150:THR:N	2.74	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.75	0.44
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.44
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.44
2:C:305:LEU:HA	1:Q:847:ARG:CB	2.47	0.44
1:E:1233:VAL:CB	1:K:579:GLU:CB	2.95	0.44
4:L:148:TRP:C	4:L:150:THR:N	2.74	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.75	0.44
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.44
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
4:L:148:TRP:C	4:L:150:THR:N	2.74	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.75	0.44
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.44
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
4:L:158:ASN:CA	4:L:321:LYS:O	2.62	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.75	0.44
1:W:1170:SER:C	1:W:1172:GLN:H	2.24	0.44
2:C:531:LEU:C	3:D:1663:GLN:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:806:ASP:C	2:C:808:ASN:H	2.25	0.44
3:D:1482:CYS:O	3:D:1485:ALA:HB3	2.17	0.44
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.44
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.44
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.44
2:O:503:LEU:O	2:O:504:LYS:CB	2.64	0.44
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
1:Q:1308:LYS:N	3:V:733:ASP:CB	2.81	0.44
5:Y:342:PRO:O	5:Y:344:ASP:N	2.49	0.44
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.25	0.44
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.44
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.44
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
4:R:486:GLU:O	4:R:487:ASP:C	2.60	0.44
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.44
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.25	0.44
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.44
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.44
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
4:R:486:GLU:O	4:R:487:ASP:C	2.60	0.44
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.44
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.44
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.44
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.25	0.44
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.44
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.44
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.44
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.44
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.44
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.25	0.44
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.44
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.44
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.44
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.25	0.44
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.44
1:A:395:GLY:N	1:A:400:SER:CB	2.80	0.44
2:C:230:MET:HA	2:C:233:VAL:CB	2.48	0.44
3:D:1537:GLN:C	3:D:1539:LEU:N	2.69	0.44
4:F:455:ILE:C	4:F:457:ALA:H	2.15	0.44
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.25	0.44
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.44
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.44
4:X:140:LYS:CB	4:X:149:GLY:HA2	2.47	0.44
3:J:1491:ILE:C	3:J:1493:ARG:N	2.72	0.44
1:Q:1354:LEU:HA	3:V:867:LEU:O	2.18	0.44
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.44
4:R:447:VAL:O	4:R:450:GLU:CA	2.65	0.44
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.44
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.44
3:P:454:PRO:C	3:P:458:GLU:N	2.76	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
6:T:462:GLY:CA	6:T:462:GLY:O	2.51	0.44
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.44
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.44
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.44
3:P:454:PRO:C	3:P:458:GLU:N	2.76	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
6:T:462:GLY:CA	6:T:462:GLY:O	2.51	0.44
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.44
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.44
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:342:PRO:O	5:G:344:ASP:N	2.49	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.44
3:P:454:PRO:C	3:P:458:GLU:N	2.76	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.44
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.44
5:G:342:PRO:O	5:G:344:ASP:N	2.49	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.44
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.44
1:Q:395:GLY:N	1:Q:400:SER:CB	2.80	0.44
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.44
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.44
2:C:304:PRO:CA	1:Q:852:VAL:CB	2.47	0.44
5:G:342:PRO:O	5:G:344:ASP:N	2.49	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.44
3:P:1544:PRO:C	3:P:1546:LEU:H	2.24	0.44
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.44
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.44
2:C:304:PRO:CA	1:Q:852:VAL:CB	2.47	0.44
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.44
5:G:342:PRO:O	5:G:344:ASP:N	2.49	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.44
3:P:454:PRO:C	3:P:458:GLU:N	2.76	0.44
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.44
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.76	0.44
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.44
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.44
4:L:222:THR:CB	4:L:222:THR:O	2.62	0.44
2:O:806:ASP:C	2:O:808:ASN:H	2.26	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
2:U:644:LYS:CB	3:V:1451:ARG:HA	2.48	0.44
3:V:254:GLU:C	3:V:256:VAL:H	2.25	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.75	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.75	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:725:GLU:C	2:C:727:VAL:N	2.75	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.75	0.44
3:D:454:PRO:C	3:D:458:GLU:N	2.76	0.44
1:E:395:GLY:N	1:E:400:SER:CB	2.80	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
3:P:454:PRO:C	3:P:458:GLU:N	2.76	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.75	0.44
3:D:454:PRO:C	3:D:458:GLU:N	2.76	0.44
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
3:P:454:PRO:C	3:P:458:GLU:N	2.76	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.44
2:C:725:GLU:C	2:C:727:VAL:N	2.75	0.44
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
2:O:230:MET:HA	2:O:233:VAL:CB	2.48	0.44
4:R:140:LYS:CB	4:R:149:GLY:HA2	2.47	0.44
4:R:158:ASN:CA	4:R:321:LYS:O	2.62	0.44
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.44
1:K:1355:ASP:CB	1:K:1358:CYS:CB	2.96	0.44
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.44
2:O:725:GLU:C	2:O:727:VAL:N	2.76	0.44
3:P:1515:TYR:O	3:P:1516:LEU:C	2.57	0.44
2:C:174:GLY:CA	3:D:1682:LYS:HA	2.30	0.44
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.44
3:D:454:PRO:C	3:D:458:GLU:N	2.76	0.44
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.44
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.44
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.44
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.44
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:318:GLU:C	5:Y:320:LYS:N	2.71	0.44
2:C:174:GLY:CA	3:D:1682:LYS:HA	2.30	0.44
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.44
3:D:454:PRO:C	3:D:458:GLU:N	2.76	0.44
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.44
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.44
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.44
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.44
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.44
2:C:174:GLY:CA	3:D:1682:LYS:HA	2.30	0.44
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.44
3:D:454:PRO:C	3:D:458:GLU:N	2.76	0.44
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.44
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.44
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.44
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.44
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.44
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.44
5:Y:318:GLU:C	5:Y:320:LYS:N	2.71	0.44
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.44
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.44
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.44
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.44
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.44
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.44
5:Y:318:GLU:C	5:Y:320:LYS:N	2.71	0.44
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.44
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.44
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.44
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.44
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.44
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.44
5:Y:318:GLU:C	5:Y:320:LYS:N	2.71	0.44
2:C:174:GLY:CA	3:D:1682:LYS:HA	2.30	0.44
2:C:503:LEU:O	2:C:504:LYS:CB	2.64	0.44
3:D:454:PRO:C	3:D:458:GLU:N	2.76	0.44
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.44
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.44
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.44
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.44
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1544:PRO:C	3:V:1546:LEU:H	2.24	0.44
5:G:374:GLN:O	5:G:377:ASN:CB	2.66	0.43
1:K:942:PRO:HA	1:K:943:GLN:HA	1.48	0.43
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.43
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
2:C:806:ASP:C	2:C:808:ASN:H	2.26	0.43
2:O:782:ASP:CB	1:W:96:GLN:CB	2.95	0.43
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.43
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.43
5:Y:326:LEU:C	5:Y:327:ARG:HA	2.28	0.43
2:C:806:ASP:C	2:C:808:ASN:H	2.26	0.43
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.43
2:O:782:ASP:CB	1:W:96:GLN:CB	2.95	0.43
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.43
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.43
4:X:450:GLU:O	4:X:451:GLU:CA	2.33	0.43
2:C:806:ASP:C	2:C:808:ASN:H	2.26	0.43
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.43
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.43
2:O:782:ASP:CB	1:W:96:GLN:CB	2.95	0.43
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.43
5:Y:326:LEU:C	5:Y:327:ARG:HA	2.28	0.43
2:C:806:ASP:C	2:C:808:ASN:H	2.26	0.43
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.43
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.43
2:O:782:ASP:CB	1:W:96:GLN:CB	2.95	0.43
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.43
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.43
5:Y:326:LEU:C	5:Y:327:ARG:HA	2.28	0.43
2:C:806:ASP:C	2:C:808:ASN:H	2.26	0.43
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.43
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.43
2:O:782:ASP:CB	1:W:96:GLN:CB	2.95	0.43
3:P:1512:TRP:O	3:P:1515:TYR:N	2.51	0.43
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.43
5:Y:326:LEU:C	5:Y:327:ARG:HA	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:806:ASP:C	2:C:808:ASN:H	2.26	0.43
4:F:140:LYS:CB	4:F:149:GLY:HA2	2.47	0.43
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.43
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.43
2:O:782:ASP:CB	1:W:96:GLN:CB	2.95	0.43
1:W:1355:ASP:CB	1:W:1358:CYS:CB	2.96	0.43
4:X:450:GLU:O	4:X:451:GLU:CA	2.33	0.43
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.43
2:I:588:GLU:HA	2:I:592:SER:O	2.18	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.43
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.43
5:S:379:HIS:N	5:S:379:HIS:CB	2.72	0.43
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
5:S:341:ALA:N	5:S:341:ALA:C	2.68	0.43
5:S:379:HIS:N	5:S:379:HIS:CB	2.72	0.43
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
1:E:1355:ASP:CB	1:E:1358:CYS:CB	2.96	0.43
3:J:1512:TRP:O	3:J:1515:TYR:N	2.51	0.43
2:U:725:GLU:C	2:U:727:VAL:N	2.76	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
4:X:486:GLU:O	4:X:487:ASP:C	2.60	0.43
1:B:441:PHE:C	1:B:443:LYS:N	2.76	0.43
3:D:1473:TYR:C	3:P:1475:ALA:N	2.59	0.43
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.43
3:J:454:PRO:C	3:J:458:GLU:N	2.76	0.43
3:J:869:GLU:HA	3:J:872:LEU:O	2.19	0.43
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.43
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:785:LEU:HA	1:W:131:GLY:O	2.17	0.43
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.71	0.43
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
1:B:441:PHE:C	1:B:443:LYS:N	2.76	0.43
3:D:1473:TYR:C	3:P:1475:ALA:N	2.59	0.43
5:G:332:PRO:O	5:G:335:LEU:HA	2.17	0.43
3:J:454:PRO:C	3:J:458:GLU:N	2.76	0.43
3:J:869:GLU:HA	3:J:872:LEU:O	2.19	0.43
2:O:785:LEU:HA	1:W:131:GLY:O	2.17	0.43
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.71	0.43
5:S:374:GLN:O	5:S:377:ASN:CB	2.66	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
1:B:441:PHE:C	1:B:443:LYS:N	2.76	0.43
3:D:1473:TYR:C	3:P:1475:ALA:N	2.59	0.43
3:J:454:PRO:C	3:J:458:GLU:N	2.76	0.43
3:J:869:GLU:HA	3:J:872:LEU:O	2.19	0.43
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.43
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.43
2:O:785:LEU:HA	1:W:131:GLY:O	2.17	0.43
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.71	0.43
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
1:B:441:PHE:C	1:B:443:LYS:N	2.76	0.43
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.43
3:J:454:PRO:C	3:J:458:GLU:N	2.76	0.43
3:J:869:GLU:HA	3:J:872:LEU:O	2.19	0.43
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.43
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.43
2:O:785:LEU:HA	1:W:131:GLY:O	2.17	0.43
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.71	0.43
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
1:B:441:PHE:C	1:B:443:LYS:N	2.76	0.43
3:D:1536:LEU:O	3:D:1539:LEU:CB	2.66	0.43
3:J:454:PRO:C	3:J:458:GLU:N	2.76	0.43
3:J:869:GLU:HA	3:J:872:LEU:O	2.19	0.43
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.43
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.43
2:O:785:LEU:HA	1:W:131:GLY:O	2.17	0.43
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
1:B:441:PHE:C	1:B:443:LYS:N	2.76	0.43
3:D:1473:TYR:C	3:P:1475:ALA:N	2.59	0.43
3:J:454:PRO:C	3:J:458:GLU:N	2.76	0.43
3:J:869:GLU:HA	3:J:872:LEU:O	2.19	0.43
2:O:785:LEU:HA	1:W:131:GLY:O	2.17	0.43
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.43
2:U:588:GLU:HA	2:U:592:SER:O	2.18	0.43
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.43
2:I:725:GLU:C	2:I:727:VAL:N	2.76	0.43
3:J:1513:LEU:O	3:J:1514:LEU:C	2.50	0.43
1:Q:1319:LYS:C	3:V:722:ASN:CB	2.92	0.43
2:O:779:GLU:CB	1:W:123:ILE:H	2.31	0.43
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.43
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.43
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.43
2:O:779:GLU:CB	1:W:123:ILE:H	2.31	0.43
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.43
5:S:332:PRO:O	5:S:335:LEU:HA	2.17	0.43
2:O:779:GLU:CB	1:W:123:ILE:H	2.31	0.43
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.43
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.43
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.43
2:O:779:GLU:CB	1:W:123:ILE:H	2.31	0.43
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.43
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.43
3:D:1513:LEU:O	3:D:1514:LEU:C	2.50	0.43
2:O:779:GLU:CB	1:W:123:ILE:H	2.31	0.43
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.43
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.43
2:O:779:GLU:CB	1:W:123:ILE:H	2.31	0.43
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.43
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.43
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.43
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.43
3:P:1542:PRO:O	3:P:1544:PRO:N	2.52	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
3:V:1542:PRO:O	3:V:1544:PRO:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.52	0.43
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
6:T:374:SER:CB	6:T:374:SER:H	2.25	0.43
3:V:869:GLU:HA	3:V:872:LEU:O	2.19	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.52	0.43
4:F:367:THR:CA	4:F:367:THR:O	2.53	0.43
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
6:T:374:SER:CB	6:T:374:SER:H	2.25	0.43
3:V:869:GLU:HA	3:V:872:LEU:O	2.19	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.52	0.43
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.43
3:V:869:GLU:HA	3:V:872:LEU:O	2.19	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.43
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.43
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.43
3:V:869:GLU:HA	3:V:872:LEU:O	2.19	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
3:D:1512:TRP:O	3:D:1515:TYR:N	2.51	0.43
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.43
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.43
3:V:869:GLU:HA	3:V:872:LEU:O	2.19	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.52	0.43
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.43
3:J:1664:ASP:N	3:J:1667:ALA:CB	2.82	0.43
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.43
3:V:869:GLU:HA	3:V:872:LEU:O	2.19	0.43
5:Y:374:GLN:O	5:Y:377:ASN:CB	2.66	0.43
3:J:1536:LEU:O	3:J:1539:LEU:CB	2.66	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
4:R:222:THR:CB	4:R:222:THR:O	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.43
3:J:620:GLU:C	3:J:625:THR:HA	2.44	0.43
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.43
5:M:318:GLU:C	5:M:320:LYS:N	2.71	0.43
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.43
3:P:1491:ILE:C	3:P:1493:ARG:N	2.73	0.43
3:V:620:GLU:C	3:V:625:THR:HA	2.44	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
3:J:620:GLU:C	3:J:625:THR:HA	2.44	0.43
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.43
3:P:1491:ILE:C	3:P:1493:ARG:N	2.73	0.43
3:V:620:GLU:C	3:V:625:THR:HA	2.44	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
3:J:620:GLU:C	3:J:625:THR:HA	2.44	0.43
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.43
5:M:318:GLU:C	5:M:320:LYS:N	2.71	0.43
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.43
3:P:1491:ILE:C	3:P:1493:ARG:N	2.73	0.43
3:V:620:GLU:C	3:V:625:THR:HA	2.44	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
3:J:620:GLU:C	3:J:625:THR:HA	2.44	0.43
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.43
5:M:318:GLU:C	5:M:320:LYS:N	2.71	0.43
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.43
3:V:620:GLU:C	3:V:625:THR:HA	2.44	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
3:J:620:GLU:C	3:J:625:THR:HA	2.44	0.43
4:L:486:GLU:O	4:L:487:ASP:C	2.60	0.43
5:M:318:GLU:C	5:M:320:LYS:N	2.71	0.43
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.43
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.43
3:V:620:GLU:C	3:V:625:THR:HA	2.44	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
3:J:620:GLU:C	3:J:625:THR:HA	2.44	0.43
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.43
3:P:1491:ILE:C	3:P:1493:ARG:N	2.73	0.43
1:Q:1355:ASP:CB	1:Q:1358:CYS:CB	2.96	0.43
3:V:620:GLU:C	3:V:625:THR:HA	2.44	0.43
3:V:1512:TRP:O	3:V:1515:TYR:N	2.51	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1170:SER:N	1:K:576:TYR:CB	2.68	0.43
2:I:645:LEU:N	3:J:1451:ARG:CB	2.81	0.43
3:J:1542:PRO:C	3:J:1544:PRO:N	2.68	0.43
1:K:404:LYS:HA	1:K:405:PRO:HA	1.70	0.43
2:C:788:GLN:N	1:K:90:PRO:CB	2.42	0.43
3:D:1487:ASP:O	3:D:1488:GLY:C	2.59	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.43
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
2:C:788:GLN:N	1:K:90:PRO:CB	2.42	0.43
3:D:1487:ASP:O	3:D:1488:GLY:C	2.59	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.43
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.43
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.43
2:C:788:GLN:N	1:K:90:PRO:CB	2.42	0.43
3:D:1487:ASP:O	3:D:1488:GLY:C	2.59	0.43
4:F:328:VAL:C	4:F:328:VAL:N	2.68	0.43
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.43
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.43
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
2:C:788:GLN:N	1:K:90:PRO:CB	2.42	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.51	0.43
4:F:328:VAL:C	4:F:328:VAL:N	2.68	0.43
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.43
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
2:C:788:GLN:N	1:K:90:PRO:CB	2.42	0.43
3:D:1542:PRO:O	3:D:1544:PRO:N	2.51	0.43
1:E:849:ASN:HA	2:O:301:LEU:C	2.40	0.43
1:E:942:PRO:HA	1:E:943:GLN:HA	1.48	0.43
4:F:328:VAL:C	4:F:328:VAL:N	2.68	0.43
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.43
5:M:374:GLN:O	5:M:377:ASN:CB	2.66	0.43
3:P:1536:LEU:O	3:P:1539:LEU:CB	2.66	0.43
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.43
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
2:C:788:GLN:N	1:K:90:PRO:CB	2.42	0.43
3:D:1487:ASP:O	3:D:1488:GLY:C	2.59	0.43
1:E:849:ASN:HA	2:O:301:LEU:C	2.40	0.43
1:E:942:PRO:HA	1:E:943:GLN:HA	1.48	0.43
4:F:328:VAL:C	4:F:328:VAL:N	2.68	0.43
6:H:374:SER:CB	6:H:374:SER:H	2.25	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
3:J:1542:PRO:O	3:J:1544:PRO:N	2.52	0.43
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.43
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.43
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.43
3:V:1536:LEU:O	3:V:1539:LEU:CB	2.66	0.43
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.43
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.43
4:F:222:THR:CB	4:F:222:THR:O	2.62	0.43
2:I:230:MET:HA	2:I:233:VAL:CB	2.48	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.43
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.43
4:R:486:GLU:O	4:R:487:ASP:C	2.61	0.43
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.43
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.43
2:C:299:ILE:HA	1:Q:845:TYR:O	2.18	0.43
3:J:644:ALA:O	3:J:706:ALA:HB2	2.19	0.43
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.43
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.43
3:V:454:PRO:C	3:V:458:GLU:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1542:PRO:O	3:V:1544:PRO:N	2.51	0.43
2:C:299:ILE:HA	1:Q:845:TYR:O	2.18	0.43
3:J:644:ALA:O	3:J:706:ALA:HB2	2.19	0.43
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.43
6:T:490:GLN:CB	6:T:490:GLN:N	2.58	0.43
3:V:454:PRO:C	3:V:458:GLU:N	2.76	0.43
3:V:1542:PRO:O	3:V:1544:PRO:N	2.51	0.43
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.43
5:Y:339:TYR:C	5:Y:340:ALA:C	2.50	0.43
2:C:299:ILE:HA	1:Q:845:TYR:O	2.18	0.43
3:J:644:ALA:O	3:J:706:ALA:HB2	2.19	0.43
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.43
3:V:454:PRO:C	3:V:458:GLU:N	2.76	0.43
3:V:1542:PRO:O	3:V:1544:PRO:N	2.51	0.43
2:C:299:ILE:HA	1:Q:845:TYR:O	2.18	0.43
3:D:620:GLU:C	3:D:625:THR:HA	2.44	0.43
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.43
3:J:644:ALA:O	3:J:706:ALA:HB2	2.19	0.43
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.43
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.43
3:V:454:PRO:C	3:V:458:GLU:N	2.76	0.43
3:V:1542:PRO:O	3:V:1544:PRO:N	2.51	0.43
3:D:620:GLU:C	3:D:625:THR:HA	2.44	0.43
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.43
3:J:644:ALA:O	3:J:706:ALA:HB2	2.19	0.43
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.43
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.43
3:V:454:PRO:C	3:V:458:GLU:N	2.76	0.43
3:V:1542:PRO:O	3:V:1544:PRO:N	2.51	0.43
3:J:644:ALA:O	3:J:706:ALA:HB2	2.19	0.43
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.43
3:V:454:PRO:C	3:V:458:GLU:N	2.76	0.43
3:V:1542:PRO:O	3:V:1544:PRO:N	2.51	0.43
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.43
5:Y:339:TYR:C	5:Y:340:ALA:C	2.50	0.43
3:D:644:ALA:HB1	3:D:706:ALA:HB2	2.01	0.43
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.43
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.43
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.43
1:E:1170:SER:CB	1:K:576:TYR:CB	2.96	0.43
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.43
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.43
2:I:640:GLU:C	3:J:1452:LEU:N	2.73	0.43
3:J:1472:SER:C	3:J:1474:GLY:N	2.75	0.43
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.43
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.43
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.43
4:F:486:GLU:O	4:F:487:ASP:C	2.60	0.43
2:I:640:GLU:C	3:J:1452:LEU:N	2.73	0.43
3:J:1472:SER:C	3:J:1474:GLY:N	2.75	0.43
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.43
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.43
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.43
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.43
2:I:640:GLU:C	3:J:1452:LEU:N	2.73	0.43
3:J:1472:SER:C	3:J:1474:GLY:N	2.75	0.43
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.43
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.43
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.43
2:I:640:GLU:C	3:J:1452:LEU:N	2.73	0.43
3:J:1472:SER:C	3:J:1474:GLY:N	2.75	0.43
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.43
3:P:620:GLU:C	3:P:625:THR:HA	2.44	0.43
3:P:774:ARG:C	3:P:776:TYR:H	2.27	0.43
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.43
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.43
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.43
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.43
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.43
2:I:640:GLU:C	3:J:1452:LEU:N	2.73	0.43
3:J:1472:SER:C	3:J:1474:GLY:N	2.75	0.43
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.43
3:P:620:GLU:C	3:P:625:THR:HA	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:774:ARG:C	3:P:776:TYR:H	2.27	0.43
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.43
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.43
3:D:1491:ILE:C	3:D:1493:ARG:N	2.72	0.43
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.43
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.43
2:I:640:GLU:C	3:J:1452:LEU:N	2.73	0.43
3:J:1472:SER:C	3:J:1474:GLY:N	2.75	0.43
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.43
2:O:588:GLU:HA	2:O:592:SER:O	2.18	0.43
2:U:230:MET:HA	2:U:233:VAL:CB	2.48	0.43
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.43
3:P:1506:VAL:O	3:P:1508:LYS:N	2.47	0.43
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.43
1:W:441:PHE:C	1:W:443:LYS:N	2.76	0.43
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.43
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
5:M:339:TYR:C	5:M:340:ALA:C	2.50	0.43
2:O:522:CYS:CA	3:P:1662:CYS:HA	2.32	0.43
2:O:709:ARG:CA	1:W:195:SER:O	2.65	0.43
2:O:778:ILE:HA	1:W:140:LEU:N	2.31	0.43
3:P:1542:PRO:O	3:P:1544:PRO:N	2.51	0.43
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.43
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.43
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.43
3:V:644:ALA:O	3:V:706:ALA:HB2	2.19	0.43
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.43
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.43
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
2:O:522:CYS:CA	3:P:1662:CYS:HA	2.32	0.43
2:O:709:ARG:CA	1:W:195:SER:O	2.65	0.43
2:O:778:ILE:HA	1:W:140:LEU:N	2.31	0.43
3:P:1542:PRO:O	3:P:1544:PRO:N	2.51	0.43
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.43
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.43
3:V:644:ALA:O	3:V:706:ALA:HB2	2.19	0.43
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.43
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.43
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.43
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
5:M:339:TYR:C	5:M:340:ALA:C	2.50	0.43
2:O:522:CYS:CA	3:P:1662:CYS:HA	2.32	0.43
2:O:709:ARG:CA	1:W:195:SER:O	2.65	0.43
2:O:778:ILE:HA	1:W:140:LEU:N	2.31	0.43
3:P:1542:PRO:O	3:P:1544:PRO:N	2.51	0.43
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.43
3:V:644:ALA:O	3:V:706:ALA:HB2	2.19	0.43
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.43
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
5:M:339:TYR:C	5:M:340:ALA:C	2.50	0.43
2:O:709:ARG:CA	1:W:195:SER:O	2.65	0.43
2:O:778:ILE:HA	1:W:140:LEU:N	2.31	0.43
3:V:644:ALA:O	3:V:706:ALA:HB2	2.19	0.43
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.43
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
2:C:301:LEU:HA	1:Q:849:ASN:H	1.83	0.43
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
5:M:339:TYR:C	5:M:340:ALA:C	2.50	0.43
2:O:709:ARG:CA	1:W:195:SER:O	2.65	0.43
2:O:778:ILE:HA	1:W:140:LEU:N	2.31	0.43
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.43
3:V:644:ALA:O	3:V:706:ALA:HB2	2.19	0.43
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
2:C:301:LEU:HA	1:Q:849:ASN:H	1.83	0.43
2:C:588:GLU:HA	2:C:592:SER:O	2.18	0.43
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.43
1:K:958:ASP:C	1:K:960:VAL:CA	2.92	0.43
2:O:522:CYS:CA	3:P:1662:CYS:HA	2.32	0.43
2:O:709:ARG:CA	1:W:195:SER:O	2.65	0.43
2:O:778:ILE:HA	1:W:140:LEU:N	2.31	0.43
3:P:1542:PRO:O	3:P:1544:PRO:N	2.51	0.43
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.43
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.43
3:V:644:ALA:O	3:V:706:ALA:HB2	2.19	0.43
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.43
3:V:1489:HIS:CB	3:V:1492:GLY:N	2.81	0.43
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.43
4:X:450:GLU:O	4:X:451:GLU:O	2.36	0.43
6:Z:409:PRO:CA	6:Z:410:LEU:N	2.72	0.43
5:G:342:PRO:C	5:G:344:ASP:H	2.25	0.42
6:H:409:PRO:CA	6:H:410:LEU:N	2.72	0.42
3:J:644:ALA:HB1	3:J:706:ALA:HB2	2.01	0.42
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.42
1:Q:958:ASP:C	1:Q:960:VAL:CA	2.92	0.42
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.42
2:U:645:LEU:C	3:V:1451:ARG:CB	2.79	0.42
3:V:1487:ASP:O	3:V:1488:GLY:C	2.59	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.42
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.42
3:P:774:ARG:C	3:P:776:TYR:H	2.27	0.42
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.42
1:Q:1239:ASP:C	1:W:572:ALA:HB1	2.44	0.42
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.42
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.42
4:F:458:ASP:CB	4:F:458:ASP:C	2.91	0.42
6:N:361:TRP:C	6:N:363:ARG:N	2.75	0.42
3:P:774:ARG:C	3:P:776:TYR:H	2.27	0.42
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.42
1:Q:1239:ASP:C	1:W:572:ALA:HB1	2.44	0.42
6:T:409:PRO:CA	6:T:410:LEU:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:492:GLU:C	4:X:492:GLU:N	2.66	0.42
5:Y:326:LEU:C	5:Y:327:ARG:HA	2.28	0.42
6:Z:361:TRP:C	6:Z:363:ARG:N	2.75	0.42
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.42
4:F:405:ALA:HB3	4:F:406:ASP:H	1.17	0.42
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.42
3:P:774:ARG:C	3:P:776:TYR:H	2.27	0.42
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.42
1:Q:1239:ASP:C	1:W:572:ALA:HB1	2.44	0.42
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.42
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.42
3:D:644:ALA:O	3:D:706:ALA:HB2	2.19	0.42
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.42
4:F:405:ALA:HB3	4:F:406:ASP:H	1.17	0.42
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.42
3:P:1542:PRO:O	3:P:1544:PRO:N	2.52	0.42
1:Q:1239:ASP:C	1:W:572:ALA:HB1	2.44	0.42
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.42
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.42
3:D:644:ALA:O	3:D:706:ALA:HB2	2.19	0.42
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.42
4:F:405:ALA:HB3	4:F:406:ASP:H	1.17	0.42
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.42
3:P:1542:PRO:O	3:P:1544:PRO:N	2.52	0.42
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.42
2:C:231:THR:C	2:C:233:VAL:N	2.75	0.42
4:F:405:ALA:HB3	4:F:406:ASP:H	1.17	0.42
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.42
6:N:361:TRP:C	6:N:363:ARG:N	2.75	0.42
3:P:774:ARG:C	3:P:776:TYR:H	2.27	0.42
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.42
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.42
4:X:492:GLU:C	4:X:492:GLU:N	2.66	0.42
5:Y:326:LEU:C	5:Y:327:ARG:HA	2.28	0.42
6:Z:361:TRP:C	6:Z:363:ARG:N	2.75	0.42
3:D:644:ALA:CB	3:D:706:ALA:HB2	2.49	0.42
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.42
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.42
4:X:492:GLU:C	4:X:492:GLU:N	2.66	0.42
2:C:722:LEU:CB	1:K:128:TYR:C	2.92	0.42
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.42
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.42
4:R:489:LYS:O	4:R:492:GLU:CB	2.68	0.42
2:C:722:LEU:CB	1:K:128:TYR:C	2.92	0.42
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.42
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.42
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.42
4:R:489:LYS:O	4:R:492:GLU:CB	2.68	0.42
2:C:722:LEU:CB	1:K:128:TYR:C	2.92	0.42
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.42
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.42
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.42
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.42
2:C:722:LEU:CB	1:K:128:TYR:C	2.92	0.42
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.42
3:P:1491:ILE:C	3:P:1493:ARG:N	2.72	0.42
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.42
2:C:722:LEU:CB	1:K:128:TYR:C	2.92	0.42
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.42
3:P:1491:ILE:C	3:P:1493:ARG:N	2.72	0.42
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.42
2:C:722:LEU:CB	1:K:128:TYR:C	2.92	0.42
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.42
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.42
4:L:450:GLU:O	4:L:451:GLU:O	2.36	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.42
5:S:342:PRO:C	5:S:344:ASP:H	2.25	0.42
4:F:422:ASN:CB	4:F:423:ALA:CB	2.94	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
3:V:1544:PRO:O	3:V:1546:LEU:N	2.52	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
4:X:492:GLU:CA	4:X:492:GLU:O	2.53	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
3:D:774:ARG:C	3:D:776:TYR:H	2.27	0.42
1:E:847:ARG:CB	2:O:305:LEU:HA	2.48	0.42
5:G:326:LEU:C	5:G:327:ARG:HA	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
3:P:670:THR:C	3:P:672:ILE:N	2.77	0.42
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
3:D:774:ARG:C	3:D:776:TYR:H	2.27	0.42
1:E:847:ARG:CB	2:O:305:LEU:HA	2.48	0.42
5:G:326:LEU:C	5:G:327:ARG:HA	2.28	0.42
4:L:492:GLU:C	4:L:492:GLU:N	2.66	0.42
3:P:670:THR:C	3:P:672:ILE:N	2.77	0.42
4:R:455:ILE:C	4:R:457:ALA:H	2.15	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.42
3:D:774:ARG:C	3:D:776:TYR:H	2.27	0.42
1:E:847:ARG:CB	2:O:305:LEU:HA	2.48	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
3:P:670:THR:C	3:P:672:ILE:N	2.77	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
1:E:847:ARG:CB	2:O:305:LEU:HA	2.48	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
3:P:670:THR:C	3:P:672:ILE:N	2.77	0.42
3:P:1487:ASP:O	3:P:1488:GLY:C	2.59	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
3:P:670:THR:C	3:P:672:ILE:N	2.77	0.42
3:P:1487:ASP:O	3:P:1488:GLY:C	2.59	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
3:D:774:ARG:C	3:D:776:TYR:H	2.27	0.42
4:L:492:GLU:C	4:L:492:GLU:N	2.66	0.42
3:P:670:THR:C	3:P:672:ILE:N	2.77	0.42
3:V:1664:ASP:N	3:V:1667:ALA:CB	2.82	0.42
4:X:458:ASP:CB	4:X:458:ASP:C	2.91	0.42
3:J:644:ALA:CB	3:J:706:ALA:HB2	2.49	0.42
3:P:644:ALA:HB1	3:P:706:ALA:HB2	2.01	0.42
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.42
4:R:450:GLU:O	4:R:451:GLU:O	2.36	0.42
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.42
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.42
1:B:404:LYS:HA	1:B:405:PRO:HA	1.71	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
3:J:670:THR:C	3:J:672:ILE:N	2.77	0.42
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:404:LYS:HA	1:B:405:PRO:HA	1.71	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
3:J:670:THR:C	3:J:672:ILE:N	2.77	0.42
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.42
4:R:492:GLU:C	4:R:492:GLU:N	2.66	0.42
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.42
1:B:404:LYS:HA	1:B:405:PRO:HA	1.71	0.42
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.42
3:J:670:THR:C	3:J:672:ILE:N	2.77	0.42
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.42
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.42
1:B:404:LYS:HA	1:B:405:PRO:HA	1.71	0.42
3:D:774:ARG:C	3:D:776:TYR:H	2.27	0.42
3:D:869:GLU:HA	3:D:872:LEU:O	2.19	0.42
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.42
3:J:670:THR:C	3:J:672:ILE:N	2.77	0.42
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.42
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.42
1:B:404:LYS:HA	1:B:405:PRO:HA	1.71	0.42
3:D:774:ARG:C	3:D:776:TYR:H	2.27	0.42
3:D:869:GLU:HA	3:D:872:LEU:O	2.19	0.42
1:E:849:ASN:H	2:O:301:LEU:HA	1.83	0.42
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.42
3:J:670:THR:C	3:J:672:ILE:N	2.77	0.42
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.42
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.42
1:B:404:LYS:HA	1:B:405:PRO:HA	1.71	0.42
1:E:849:ASN:H	2:O:301:LEU:HA	1.83	0.42
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.42
3:J:670:THR:C	3:J:672:ILE:N	2.77	0.42
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.42
4:R:140:LYS:O	4:R:149:GLY:HA3	2.19	0.42
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.42
4:X:447:VAL:O	4:X:450:GLU:N	2.52	0.42
3:D:1544:PRO:O	3:D:1546:LEU:N	2.52	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:367:THR:CA	4:L:367:THR:O	2.53	0.42
3:P:644:ALA:CB	3:P:706:ALA:HB2	2.49	0.42
3:P:1544:PRO:O	3:P:1546:LEU:N	2.52	0.42
3:P:1653:SER:C	3:P:1655:THR:H	2.27	0.42
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:459:LEU:CA	4:R:460:LEU:N	2.54	0.42
4:R:489:LYS:O	4:R:492:GLU:CB	2.68	0.42
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
3:D:620:GLU:C	3:D:625:THR:HA	2.44	0.42
3:D:670:THR:C	3:D:672:ILE:N	2.77	0.42
3:D:1475:ALA:N	3:P:1473:TYR:C	2.58	0.42
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.42
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:774:ARG:C	3:V:776:TYR:H	2.27	0.42
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.42
5:Y:366:GLU:CB	5:Y:367:LEU:N	2.81	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
3:D:620:GLU:C	3:D:625:THR:HA	2.44	0.42
3:D:670:THR:C	3:D:672:ILE:N	2.77	0.42
3:D:1475:ALA:N	3:P:1473:TYR:C	2.58	0.42
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.42
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.42
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
5:S:318:GLU:C	5:S:320:LYS:N	2.71	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:774:ARG:C	3:V:776:TYR:H	2.27	0.42
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
3:D:620:GLU:C	3:D:625:THR:HA	2.44	0.42
3:D:670:THR:C	3:D:672:ILE:N	2.77	0.42
3:D:1475:ALA:N	3:P:1473:TYR:C	2.58	0.42
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:774:ARG:C	3:V:776:TYR:H	2.27	0.42
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.42
5:Y:366:GLU:CB	5:Y:367:LEU:N	2.81	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
1:E:958:ASP:C	1:E:960:VAL:CA	2.92	0.42
3:P:644:ALA:O	3:P:706:ALA:HB2	2.19	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:774:ARG:C	3:V:776:TYR:H	2.27	0.42
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.42
5:Y:366:GLU:CB	5:Y:367:LEU:N	2.81	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
3:P:644:ALA:O	3:P:706:ALA:HB2	2.19	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:774:ARG:C	3:V:776:TYR:H	2.27	0.42
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.42
5:Y:366:GLU:CB	5:Y:367:LEU:N	2.81	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
3:D:620:GLU:C	3:D:625:THR:HA	2.44	0.42
3:D:670:THR:C	3:D:672:ILE:N	2.77	0.42
3:D:1475:ALA:N	3:P:1473:TYR:C	2.58	0.42
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:774:ARG:C	3:V:776:TYR:H	2.27	0.42
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.42
1:B:326:ALA:CB	1:B:387:LEU:CB	2.95	0.42
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.42
5:S:326:LEU:C	5:S:327:ARG:HA	2.28	0.42
3:V:644:ALA:HB1	3:V:706:ALA:HB2	2.01	0.42
1:B:205:LEU:C	1:B:207:SER:CA	2.93	0.42
3:D:1468:ALA:CB	3:P:1510:GLN:CB	2.95	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
6:H:490:GLN:CB	6:H:490:GLN:N	2.59	0.42
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.42
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
1:B:205:LEU:C	1:B:207:SER:CA	2.93	0.42
3:D:1468:ALA:CB	3:P:1510:GLN:CB	2.95	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
6:H:490:GLN:CB	6:H:490:GLN:N	2.59	0.42
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.42
4:R:458:ASP:CB	4:R:458:ASP:C	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
1:B:205:LEU:C	1:B:207:SER:CA	2.93	0.42
3:D:1468:ALA:CB	3:P:1510:GLN:CB	2.95	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
1:B:205:LEU:C	1:B:207:SER:CA	2.93	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
1:B:205:LEU:C	1:B:207:SER:CA	2.93	0.42
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.42
4:L:489:LYS:O	4:L:492:GLU:CB	2.67	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.42
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
1:B:205:LEU:C	1:B:207:SER:CA	2.93	0.42
3:D:1468:ALA:CB	3:P:1510:GLN:CB	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.42
4:R:447:VAL:O	4:R:450:GLU:N	2.52	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
4:X:489:LYS:O	4:X:492:GLU:CB	2.68	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
2:C:481:ARG:HA	3:D:1593:GLU:CB	2.50	0.42
3:D:1487:ASP:O	3:D:1490:GLU:N	2.49	0.42
1:E:404:LYS:HA	1:E:405:PRO:HA	1.70	0.42
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.42
6:H:494:LEU:O	6:H:498:LYS:CB	2.68	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
4:L:458:ASP:CB	4:L:458:ASP:C	2.91	0.42
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.42
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.42
6:T:494:LEU:O	6:T:498:LYS:CB	2.68	0.42
2:U:480:PHE:O	2:U:484:ARG:CB	2.68	0.42
3:V:644:ALA:CB	3:V:706:ALA:HB2	2.49	0.42
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
4:X:328:VAL:C	4:X:328:VAL:N	2.68	0.42
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
3:J:1492:GLY:O	3:J:1495:LEU:N	2.53	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
4:L:405:ALA:HB3	4:L:406:ASP:H	1.17	0.42
1:Q:1310:ARG:CB	3:V:241:LEU:CB	2.98	0.42
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
3:J:1492:GLY:O	3:J:1495:LEU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
1:Q:1310:ARG:CB	3:V:241:LEU:CB	2.98	0.42
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.42
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
3:J:1492:GLY:O	3:J:1495:LEU:N	2.53	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
4:L:405:ALA:HB3	4:L:406:ASP:H	1.17	0.42
1:Q:1310:ARG:CB	3:V:241:LEU:CB	2.98	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
3:J:1492:GLY:O	3:J:1495:LEU:N	2.53	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
4:L:405:ALA:HB3	4:L:406:ASP:H	1.17	0.42
2:O:173:PRO:CB	3:P:1681:SER:C	2.93	0.42
1:Q:1310:ARG:CB	3:V:241:LEU:CB	2.98	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
3:J:1492:GLY:O	3:J:1495:LEU:N	2.53	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
4:L:405:ALA:HB3	4:L:406:ASP:H	1.17	0.42
2:O:173:PRO:CB	3:P:1681:SER:C	2.93	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42
3:D:1653:SER:C	3:D:1655:THR:H	2.27	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
2:I:480:PHE:O	2:I:484:ARG:CB	2.68	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
3:J:1492:GLY:O	3:J:1495:LEU:N	2.53	0.42
1:K:1029:ARG:C	1:K:1034:LEU:N	2.78	0.42
4:L:447:VAL:O	4:L:450:GLU:N	2.52	0.42
1:W:958:ASP:C	1:W:960:VAL:CA	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
3:J:1489:HIS:CB	3:J:1492:GLY:N	2.81	0.42
2:O:784:GLN:CB	1:W:131:GLY:O	2.68	0.42
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.42
1:Q:68:GLN:C	1:Q:74:SER:CB	2.93	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
3:D:644:ALA:O	3:D:706:ALA:HB2	2.19	0.42
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.42
3:P:620:GLU:C	3:P:625:THR:HA	2.44	0.42
3:P:887:ASN:O	6:T:405:ASP:C	2.61	0.42
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
3:D:644:ALA:O	3:D:706:ALA:HB2	2.19	0.42
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.42
3:P:620:GLU:C	3:P:625:THR:HA	2.44	0.42
3:P:887:ASN:O	6:T:405:ASP:C	2.61	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
3:D:644:ALA:O	3:D:706:ALA:HB2	2.19	0.42
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.42
3:P:620:GLU:C	3:P:625:THR:HA	2.44	0.42
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.42
3:P:1474:GLY:O	3:P:1475:ALA:C	2.55	0.42
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.42
3:P:1474:GLY:O	3:P:1475:ALA:C	2.55	0.42
4:X:140:LYS:O	4:X:149:GLY:HA3	2.19	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
3:D:644:ALA:O	3:D:706:ALA:HB2	2.19	0.42
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:620:GLU:C	3:P:625:THR:HA	2.44	0.42
4:X:332:GLU:O	4:X:335:ARG:CB	2.68	0.42
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.42
1:A:584:PHE:C	1:A:586:THR:CA	2.93	0.42
2:C:487:CYS:N	3:D:1661:ARG:CB	2.77	0.42
3:D:340:ILE:C	3:D:342:GLN:H	2.28	0.42
3:D:658:GLU:C	3:D:660:ALA:H	2.28	0.42
1:E:68:GLN:C	1:E:74:SER:CB	2.93	0.42
4:F:459:LEU:C	4:F:459:LEU:N	2.63	0.42
2:I:618:ASN:CA	3:J:1446:LYS:N	2.82	0.42
3:J:1449:TRP:O	3:J:1450:GLU:C	2.62	0.42
4:L:332:GLU:O	4:L:335:ARG:CB	2.68	0.42
3:P:658:GLU:C	3:P:660:ALA:H	2.28	0.42
3:V:1449:TRP:O	3:V:1450:GLU:C	2.62	0.42
3:V:1492:GLY:O	3:V:1495:LEU:N	2.53	0.42
3:D:1511:GLN:O	3:D:1512:TRP:C	2.57	0.42
3:J:774:ARG:C	3:J:776:TYR:H	2.27	0.42
1:K:326:ALA:CB	1:K:387:LEU:CB	2.95	0.42
1:W:326:ALA:CB	1:W:387:LEU:CB	2.95	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
3:D:1511:GLN:O	3:D:1512:TRP:C	2.57	0.42
3:J:774:ARG:C	3:J:776:TYR:H	2.27	0.42
1:K:326:ALA:CB	1:K:387:LEU:CB	2.95	0.42
1:W:326:ALA:CB	1:W:387:LEU:CB	2.95	0.42
4:X:492:GLU:CA	4:X:492:GLU:O	2.53	0.42
3:D:1511:GLN:O	3:D:1512:TRP:C	2.57	0.42
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.42
3:J:774:ARG:C	3:J:776:TYR:H	2.27	0.42
1:K:326:ALA:CB	1:K:387:LEU:CB	2.95	0.42
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.42
1:W:326:ALA:CB	1:W:387:LEU:CB	2.95	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.42
3:J:774:ARG:C	3:J:776:TYR:H	2.27	0.42
1:K:326:ALA:CB	1:K:387:LEU:CB	2.95	0.42
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.42
1:W:326:ALA:CB	1:W:387:LEU:CB	2.95	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
2:C:303:ALA:O	1:Q:847:ARG:O	2.32	0.42
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.42
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:774:ARG:C	3:J:776:TYR:H	2.27	0.42
1:K:326:ALA:CB	1:K:387:LEU:CB	2.95	0.42
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.42
1:W:326:ALA:CB	1:W:387:LEU:CB	2.95	0.42
6:Z:494:LEU:O	6:Z:498:LYS:CB	2.68	0.42
2:C:303:ALA:O	1:Q:847:ARG:O	2.32	0.42
3:D:1511:GLN:O	3:D:1512:TRP:C	2.57	0.42
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.42
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.42
3:J:774:ARG:C	3:J:776:TYR:H	2.27	0.42
1:K:326:ALA:CB	1:K:387:LEU:CB	2.95	0.42
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.42
1:W:326:ALA:CB	1:W:387:LEU:CB	2.95	0.42
4:X:492:GLU:CA	4:X:492:GLU:O	2.53	0.42
1:B:68:GLN:C	1:B:74:SER:CB	2.93	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
3:J:658:GLU:C	3:J:660:ALA:H	2.28	0.42
3:P:1511:GLN:O	3:P:1512:TRP:C	2.57	0.42
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.42
2:U:279:HIS:HA	2:U:283:LEU:HA	2.02	0.42
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.42
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.42
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.42
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.42
3:J:1546:LEU:O	3:J:1547:LEU:C	2.48	0.42
4:L:422:ASN:CB	4:L:423:ALA:CB	2.94	0.42
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
2:O:779:GLU:N	1:W:138:ASP:CA	2.83	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.42
3:V:670:THR:C	3:V:672:ILE:N	2.77	0.42
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.42
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.42
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
4:F:140:LYS:O	4:F:149:GLY:HA3	2.19	0.42
4:F:396:GLN:O	4:F:397:ARG:C	2.61	0.42
4:F:447:VAL:O	4:F:450:GLU:N	2.52	0.42
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.42
3:J:1546:LEU:O	3:J:1547:LEU:C	2.48	0.42
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
2:O:779:GLU:N	1:W:138:ASP:CA	2.83	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.42
3:V:670:THR:C	3:V:672:ILE:N	2.77	0.42
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.42
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
3:J:1546:LEU:O	3:J:1547:LEU:C	2.48	0.42
4:L:422:ASN:CB	4:L:423:ALA:CB	2.94	0.42
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
2:O:779:GLU:N	1:W:138:ASP:CA	2.83	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.42
3:V:670:THR:C	3:V:672:ILE:N	2.77	0.42
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.42
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.42
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.42
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
3:J:1546:LEU:O	3:J:1547:LEU:C	2.48	0.42
4:L:422:ASN:CB	4:L:423:ALA:CB	2.94	0.42
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
2:O:779:GLU:N	1:W:138:ASP:CA	2.83	0.42
3:P:869:GLU:HA	3:P:872:LEU:O	2.19	0.42
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.42
1:Q:584:PHE:C	1:Q:586:THR:CA	2.93	0.42
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.42
3:V:670:THR:C	3:V:672:ILE:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.42
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.42
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.42
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.42
3:J:1546:LEU:O	3:J:1547:LEU:C	2.48	0.42
4:L:422:ASN:CB	4:L:423:ALA:CB	2.94	0.42
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
2:O:779:GLU:N	1:W:138:ASP:CA	2.83	0.42
3:P:869:GLU:HA	3:P:872:LEU:O	2.19	0.42
3:P:1485:ALA:O	3:P:1487:ASP:N	2.52	0.42
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.42
3:V:670:THR:C	3:V:672:ILE:N	2.77	0.42
4:X:422:ASN:CB	4:X:423:ALA:CB	2.94	0.42
5:Y:342:PRO:C	5:Y:344:ASP:H	2.25	0.42
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.42
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.42
1:B:584:PHE:C	1:B:586:THR:CA	2.93	0.42
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.42
3:J:1546:LEU:O	3:J:1547:LEU:C	2.48	0.42
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.42
2:O:231:THR:C	2:O:233:VAL:N	2.75	0.42
2:O:779:GLU:N	1:W:138:ASP:CA	2.83	0.42
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.42
3:V:670:THR:C	3:V:672:ILE:N	2.77	0.42
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
4:F:450:GLU:O	4:F:451:GLU:O	2.36	0.41
5:G:379:HIS:N	5:G:379:HIS:CB	2.72	0.41
3:J:1487:ASP:O	3:J:1488:GLY:C	2.59	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
3:P:1537:GLN:C	3:P:1539:LEU:H	2.28	0.41
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.41
2:C:299:ILE:O	1:Q:845:TYR:CB	2.68	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.41
5:M:326:LEU:C	5:M:327:ARG:HA	2.28	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:942:PRO:HA	1:Q:943:GLN:HA	1.48	0.41
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.41
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.41
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.41
2:C:299:ILE:O	1:Q:845:TYR:CB	2.68	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.41
1:Q:942:PRO:HA	1:Q:943:GLN:HA	1.48	0.41
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.41
4:X:452:ARG:HA	4:X:453:TYR:HA	1.90	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.41
2:C:299:ILE:O	1:Q:845:TYR:CB	2.68	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.41
5:M:326:LEU:C	5:M:327:ARG:HA	2.28	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.41
1:Q:942:PRO:HA	1:Q:943:GLN:HA	1.48	0.41
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.41
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.41
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.41
2:C:173:PRO:CB	3:D:1681:SER:C	2.93	0.41
2:C:299:ILE:O	1:Q:845:TYR:CB	2.68	0.41
3:D:670:THR:C	3:D:672:ILE:N	2.77	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.41
5:M:326:LEU:C	5:M:327:ARG:HA	2.28	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.41
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.41
1:Q:942:PRO:HA	1:Q:943:GLN:HA	1.48	0.41
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.41
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.41
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.41
2:C:173:PRO:CB	3:D:1681:SER:C	2.93	0.41
2:C:301:LEU:C	1:Q:849:ASN:HA	2.40	0.41
3:D:670:THR:C	3:D:672:ILE:N	2.77	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.41
5:M:326:LEU:C	5:M:327:ARG:HA	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
6:N:494:LEU:O	6:N:498:LYS:CB	2.68	0.41
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.41
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.41
4:X:451:GLU:O	4:X:452:ARG:C	2.63	0.41
1:A:68:GLN:C	1:A:74:SER:CB	2.93	0.41
2:C:301:LEU:C	1:Q:849:ASN:HA	2.40	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
3:J:1493:ARG:O	3:J:1494:MET:C	2.47	0.41
3:V:1653:SER:C	3:V:1655:THR:H	2.27	0.41
4:X:452:ARG:HA	4:X:453:TYR:HA	1.90	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.02	0.41
3:J:1653:SER:C	3:J:1655:THR:H	2.27	0.41
4:L:148:TRP:C	4:L:150:THR:N	2.74	0.41
6:N:361:TRP:C	6:N:363:ARG:N	2.75	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
4:R:255:ARG:O	4:R:292:GLN:CB	2.69	0.41
3:V:1493:ARG:O	3:V:1494:MET:C	2.47	0.41
1:W:1029:ARG:C	1:W:1034:LEU:N	2.78	0.41
2:C:724:GLN:CB	1:K:508:SER:C	2.84	0.41
1:E:845:TYR:CB	2:O:299:ILE:O	2.68	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.41
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.41
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.41
3:P:1511:GLN:O	3:P:1512:TRP:C	2.57	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
2:U:640:GLU:C	3:V:1452:LEU:N	2.73	0.41
2:C:724:GLN:CB	1:K:508:SER:C	2.84	0.41
1:E:845:TYR:CB	2:O:299:ILE:O	2.68	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
3:P:1511:GLN:O	3:P:1512:TRP:C	2.57	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
2:U:640:GLU:C	3:V:1452:LEU:N	2.73	0.41
2:C:724:GLN:CB	1:K:508:SER:C	2.84	0.41
1:E:845:TYR:CB	2:O:299:ILE:O	2.68	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.41
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.41
3:P:1511:GLN:O	3:P:1512:TRP:C	2.57	0.41
4:R:148:TRP:C	4:R:150:THR:N	2.74	0.41
4:R:489:LYS:O	4:R:492:GLU:CB	2.67	0.41
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
2:U:640:GLU:C	3:V:1452:LEU:N	2.73	0.41
2:C:724:GLN:CB	1:K:508:SER:C	2.84	0.41
1:E:845:TYR:CB	2:O:299:ILE:O	2.68	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.41
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.41
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.41
3:P:1544:PRO:O	3:P:1545:PRO:C	2.63	0.41
4:R:148:TRP:C	4:R:150:THR:N	2.74	0.41
4:R:489:LYS:O	4:R:492:GLU:CB	2.67	0.41
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
2:U:640:GLU:C	3:V:1452:LEU:N	2.73	0.41
2:C:724:GLN:CB	1:K:508:SER:C	2.84	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.41
4:L:140:LYS:O	4:L:149:GLY:HA3	2.19	0.41
4:L:396:GLN:O	4:L:397:ARG:C	2.61	0.41
3:P:1544:PRO:O	3:P:1545:PRO:C	2.63	0.41
4:R:148:TRP:C	4:R:150:THR:N	2.74	0.41
4:R:489:LYS:O	4:R:492:GLU:CB	2.67	0.41
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
2:U:640:GLU:C	3:V:1452:LEU:N	2.73	0.41
2:C:724:GLN:CB	1:K:508:SER:C	2.84	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
3:J:1485:ALA:O	3:J:1487:ASP:N	2.52	0.41
6:N:493:ALA:O	6:N:497:ARG:CB	2.68	0.41
3:P:1511:GLN:O	3:P:1512:TRP:C	2.57	0.41
4:R:148:TRP:C	4:R:150:THR:N	2.74	0.41
4:R:489:LYS:O	4:R:492:GLU:CB	2.67	0.41
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
2:U:640:GLU:C	3:V:1452:LEU:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1511:GLN:O	3:D:1512:TRP:C	2.57	0.41
5:G:366:GLU:CB	5:G:367:LEU:N	2.81	0.41
3:J:340:ILE:C	3:J:342:GLN:H	2.28	0.41
3:J:1544:PRO:O	3:J:1546:LEU:N	2.52	0.41
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.41
3:P:340:ILE:C	3:P:342:GLN:H	2.28	0.41
3:P:1489:HIS:CB	3:P:1492:GLY:N	2.81	0.41
1:Q:1218:GLN:O	3:V:675:THR:O	2.39	0.41
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
3:D:869:GLU:HA	3:D:872:LEU:O	2.19	0.41
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.41
3:P:1487:ASP:O	3:P:1488:GLY:C	2.59	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
3:D:869:GLU:HA	3:D:872:LEU:O	2.19	0.41
5:G:318:GLU:C	5:G:320:LYS:N	2.71	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.41
3:P:1487:ASP:O	3:P:1488:GLY:C	2.59	0.41
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.41
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
3:D:869:GLU:HA	3:D:872:LEU:O	2.19	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.41
3:P:1487:ASP:O	3:P:1488:GLY:C	2.59	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.41
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
3:D:1485:ALA:O	3:D:1487:ASP:N	2.52	0.41
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
6:N:409:PRO:CA	6:N:410:LEU:N	2.72	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
3:D:869:GLU:HA	3:D:872:LEU:O	2.19	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:366:GLU:CB	5:M:367:LEU:N	2.81	0.41
3:P:1487:ASP:O	3:P:1488:GLY:C	2.59	0.41
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.41
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.41
1:E:584:PHE:C	1:E:586:THR:CA	2.93	0.41
1:E:848:ASP:C	2:O:305:LEU:O	2.63	0.41
4:F:489:LYS:O	4:F:492:GLU:CB	2.68	0.41
3:J:1511:GLN:O	3:J:1512:TRP:C	2.57	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.41
3:P:1472:SER:C	3:P:1474:GLY:N	2.75	0.41
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.41
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.41
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.41
4:R:422:ASN:CB	4:R:423:ALA:CB	2.94	0.41
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.41
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.41
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.41
5:G:366:GLU:CB	5:G:367:LEU:N	2.81	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
2:O:303:ALA:CB	2:O:306:PRO:HA	2.50	0.41
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.39	0.41
2:U:279:HIS:HA	2:U:283:LEU:HA	2.03	0.41
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.41
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.41
4:X:421:LEU:O	4:X:422:ASN:C	2.63	0.41
6:Z:406:LEU:C	6:Z:408:SER:N	2.61	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.41
4:F:492:GLU:C	4:F:492:GLU:N	2.66	0.41
5:G:366:GLU:CB	5:G:367:LEU:N	2.81	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
4:L:452:ARG:HA	4:L:453:TYR:HA	1.90	0.41
4:L:465:GLN:O	4:L:466:HIS:C	2.57	0.41
4:L:492:GLU:CA	4:L:492:GLU:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:303:ALA:CB	2:O:306:PRO:HA	2.50	0.41
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.39	0.41
2:U:279:HIS:HA	2:U:283:LEU:HA	2.03	0.41
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.41
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.41
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
2:O:303:ALA:CB	2:O:306:PRO:HA	2.50	0.41
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.41
2:U:279:HIS:HA	2:U:283:LEU:HA	2.03	0.41
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.41
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.41
4:X:421:LEU:O	4:X:422:ASN:C	2.63	0.41
6:Z:406:LEU:C	6:Z:408:SER:N	2.61	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
2:O:303:ALA:CB	2:O:306:PRO:HA	2.50	0.41
2:U:279:HIS:HA	2:U:283:LEU:HA	2.03	0.41
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.41
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.41
4:X:421:LEU:O	4:X:422:ASN:C	2.63	0.41
6:Z:406:LEU:C	6:Z:408:SER:N	2.61	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
2:O:303:ALA:CB	2:O:306:PRO:HA	2.50	0.41
1:Q:205:LEU:C	1:Q:207:SER:CA	2.93	0.41
2:U:279:HIS:HA	2:U:283:LEU:HA	2.03	0.41
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.41
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.41
4:X:421:LEU:O	4:X:422:ASN:C	2.63	0.41
6:Z:406:LEU:C	6:Z:408:SER:N	2.61	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
3:D:1664:ASP:N	3:D:1667:ALA:CB	2.82	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.41
4:L:451:GLU:O	4:L:452:ARG:C	2.63	0.41
4:L:452:ARG:HA	4:L:453:TYR:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:465:GLN:O	4:L:466:HIS:C	2.57	0.41
4:L:492:GLU:CA	4:L:492:GLU:O	2.53	0.41
2:O:303:ALA:CB	2:O:306:PRO:HA	2.50	0.41
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.41
1:Q:205:LEU:C	1:Q:207:SER:CA	2.93	0.41
2:U:279:HIS:HA	2:U:283:LEU:HA	2.03	0.41
3:V:1485:ALA:O	3:V:1487:ASP:N	2.52	0.41
1:W:584:PHE:C	1:W:586:THR:CA	2.93	0.41
1:B:376:ARG:C	1:B:380:ALA:CA	2.94	0.41
2:C:303:ALA:C	1:Q:849:ASN:H	2.25	0.41
1:E:1165:TYR:N	1:K:726:GLN:C	2.75	0.41
4:F:332:GLU:O	4:F:335:ARG:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.41
1:K:584:PHE:C	1:K:586:THR:CA	2.93	0.41
6:N:408:SER:C	6:N:410:LEU:H	2.28	0.41
4:R:332:GLU:O	4:R:335:ARG:CB	2.68	0.41
6:Z:493:ALA:O	6:Z:497:ARG:CB	2.68	0.41
3:D:744:PHE:C	3:D:746:ARG:CA	2.94	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.03	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.41
2:O:279:HIS:HA	2:O:283:LEU:HA	2.02	0.41
3:P:644:ALA:O	3:P:706:ALA:HB2	2.19	0.41
3:V:1474:GLY:O	3:V:1475:ALA:C	2.55	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
3:D:744:PHE:C	3:D:746:ARG:CA	2.94	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.03	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.41
2:O:279:HIS:HA	2:O:283:LEU:HA	2.02	0.41
3:P:644:ALA:O	3:P:706:ALA:HB2	2.19	0.41
3:V:1474:GLY:O	3:V:1475:ALA:C	2.55	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
4:X:405:ALA:HB3	4:X:406:ASP:H	1.17	0.41
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.41
3:D:744:PHE:C	3:D:746:ARG:CA	2.94	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.03	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.41
2:O:279:HIS:HA	2:O:283:LEU:HA	2.02	0.41
3:P:644:ALA:O	3:P:706:ALA:HB2	2.19	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.39	0.41
3:V:1474:GLY:O	3:V:1475:ALA:C	2.55	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
3:D:1544:PRO:O	3:D:1545:PRO:C	2.63	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.03	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.41
2:O:279:HIS:HA	2:O:283:LEU:HA	2.02	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.39	0.41
3:V:1474:GLY:O	3:V:1475:ALA:C	2.55	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
3:D:1544:PRO:O	3:D:1545:PRO:C	2.63	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.03	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
5:M:342:PRO:C	5:M:344:ASP:H	2.25	0.41
2:O:279:HIS:HA	2:O:283:LEU:HA	2.02	0.41
1:Q:1352:LEU:C	1:Q:1354:LEU:N	2.79	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.39	0.41
3:V:1474:GLY:O	3:V:1475:ALA:C	2.55	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
3:D:744:PHE:C	3:D:746:ARG:CA	2.94	0.41
2:I:279:HIS:HA	2:I:283:LEU:HA	2.03	0.41
1:K:221:THR:C	1:K:223:ASN:H	2.28	0.41
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.41
2:O:279:HIS:HA	2:O:283:LEU:HA	2.02	0.41
3:P:644:ALA:O	3:P:706:ALA:HB2	2.19	0.41
1:Q:1352:LEU:C	1:Q:1354:LEU:N	2.79	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.39	0.41
3:V:1474:GLY:O	3:V:1475:ALA:C	2.55	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
4:X:405:ALA:HB3	4:X:406:ASP:H	1.17	0.41
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.41
1:A:326:ALA:CB	1:A:387:LEU:CB	2.95	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:ALA:CB	1:Q:848:ASP:C	2.71	0.41
3:D:1546:LEU:O	3:D:1547:LEU:C	2.48	0.41
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.41
3:J:1472:SER:C	3:J:1474:GLY:N	2.74	0.41
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.41
1:W:230:GLY:C	1:W:232:ASP:H	2.29	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.41
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.41
2:C:173:PRO:CB	3:D:1681:SER:CB	2.98	0.41
2:C:303:ALA:CB	2:C:306:PRO:HA	2.50	0.41
3:D:1492:GLY:O	3:D:1495:LEU:N	2.53	0.41
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.41
1:E:849:ASN:O	2:O:304:PRO:CA	2.66	0.41
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.41
1:E:1233:VAL:CB	1:K:579:GLU:C	2.93	0.41
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.41
3:J:744:PHE:C	3:J:746:ARG:CA	2.94	0.41
4:L:466:HIS:O	4:L:467:LEU:C	2.58	0.41
2:O:676:ALA:O	1:W:796:LYS:O	2.39	0.41
3:P:744:PHE:C	3:P:746:ARG:CA	2.94	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.41
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.41
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.41
2:C:173:PRO:CB	3:D:1681:SER:CB	2.98	0.41
2:C:303:ALA:CB	2:C:306:PRO:HA	2.50	0.41
3:D:1492:GLY:O	3:D:1495:LEU:N	2.53	0.41
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.41
1:E:849:ASN:O	2:O:304:PRO:CA	2.66	0.41
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.41
1:E:1233:VAL:CB	1:K:579:GLU:C	2.93	0.41
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.41
3:J:744:PHE:C	3:J:746:ARG:CA	2.94	0.41
2:O:676:ALA:O	1:W:796:LYS:O	2.39	0.41
3:P:744:PHE:C	3:P:746:ARG:CA	2.94	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.41
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.41
2:C:173:PRO:CB	3:D:1681:SER:CB	2.98	0.41
2:C:303:ALA:CB	2:C:306:PRO:HA	2.50	0.41
3:D:1492:GLY:O	3:D:1495:LEU:N	2.53	0.41
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.41
1:E:849:ASN:O	2:O:304:PRO:CA	2.66	0.41
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.41
1:E:1233:VAL:CB	1:K:579:GLU:C	2.93	0.41
3:J:744:PHE:C	3:J:746:ARG:CA	2.94	0.41
4:L:466:HIS:O	4:L:467:LEU:C	2.58	0.41
2:O:676:ALA:O	1:W:796:LYS:O	2.39	0.41
3:P:744:PHE:C	3:P:746:ARG:CA	2.94	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.41
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.41
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.41
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.41
2:C:303:ALA:CB	2:C:306:PRO:HA	2.50	0.41
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.41
3:D:1472:SER:C	3:D:1474:GLY:N	2.75	0.41
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.41
1:E:849:ASN:O	2:O:304:PRO:CA	2.66	0.41
1:E:1029:ARG:C	1:E:1034:LEU:N	2.78	0.41
1:E:1233:VAL:CB	1:K:579:GLU:C	2.93	0.41
3:J:744:PHE:C	3:J:746:ARG:CA	2.94	0.41
4:L:466:HIS:O	4:L:467:LEU:C	2.58	0.41
2:O:676:ALA:O	1:W:796:LYS:O	2.39	0.41
3:P:1472:SER:C	3:P:1474:GLY:N	2.75	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.41
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.41
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.41
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.41
2:C:303:ALA:CB	2:C:306:PRO:HA	2.50	0.41
3:D:1449:TRP:O	3:D:1450:GLU:C	2.62	0.41
3:D:1472:SER:C	3:D:1474:GLY:N	2.75	0.41
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.41
3:J:744:PHE:C	3:J:746:ARG:CA	2.94	0.41
4:L:466:HIS:O	4:L:467:LEU:C	2.58	0.41
2:O:676:ALA:O	1:W:796:LYS:O	2.39	0.41
3:P:1472:SER:C	3:P:1474:GLY:N	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:1301:GLU:C	3:V:172:ARG:HA	2.46	0.41
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.41
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.41
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.41
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.41
2:C:173:PRO:CB	3:D:1681:SER:CB	2.98	0.41
2:C:303:ALA:CB	2:C:306:PRO:HA	2.50	0.41
3:D:1492:GLY:O	3:D:1495:LEU:N	2.53	0.41
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.41
3:J:744:PHE:C	3:J:746:ARG:CA	2.94	0.41
2:O:676:ALA:O	1:W:796:LYS:O	2.39	0.41
3:P:744:PHE:C	3:P:746:ARG:CA	2.94	0.41
1:Q:1301:GLU:C	3:V:172:ARG:HA	2.46	0.41
4:R:451:GLU:O	4:R:452:ARG:C	2.63	0.41
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.41
1:W:68:GLN:C	1:W:74:SER:CB	2.93	0.41
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.41
2:I:303:ALA:CB	2:I:306:PRO:HA	2.50	0.41
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.41
2:U:303:ALA:CB	2:U:306:PRO:HA	2.50	0.41
3:V:658:GLU:C	3:V:660:ALA:H	2.28	0.41
4:X:453:TYR:O	4:X:455:ILE:N	2.54	0.41
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
4:F:422:ASN:CB	4:F:423:ALA:CB	2.94	0.41
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.41
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.41
3:V:744:PHE:C	3:V:746:ARG:CA	2.94	0.41
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
4:F:422:ASN:CB	4:F:423:ALA:CB	2.94	0.41
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.41
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.41
6:T:493:ALA:O	6:T:497:ARG:CB	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:744:PHE:C	3:V:746:ARG:CA	2.94	0.41
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
3:V:744:PHE:C	3:V:746:ARG:CA	2.94	0.41
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
3:V:744:PHE:C	3:V:746:ARG:CA	2.94	0.41
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
3:V:744:PHE:C	3:V:746:ARG:CA	2.94	0.41
2:C:480:PHE:O	2:C:484:ARG:CB	2.68	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
1:K:68:GLN:C	1:K:74:SER:CB	2.93	0.41
6:N:406:LEU:C	6:N:408:SER:N	2.62	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
3:V:744:PHE:C	3:V:746:ARG:CA	2.94	0.41
1:B:221:THR:C	1:B:223:ASN:H	2.28	0.41
2:C:531:LEU:C	3:D:1664:ASP:HA	2.46	0.41
1:E:1302:VAL:C	3:J:876:VAL:CA	2.91	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1537:GLN:C	3:J:1539:LEU:H	2.28	0.41
3:P:1563:VAL:O	3:P:1569:GLY:HA3	2.21	0.41
1:Q:230:GLY:C	1:Q:232:ASP:H	2.29	0.41
3:V:1546:LEU:O	3:V:1547:LEU:C	2.48	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
1:E:847:ARG:HA	2:O:305:LEU:HA	2.03	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
3:P:869:GLU:HA	3:P:872:LEU:O	2.19	0.41
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.41
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.41
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.41
1:W:404:LYS:HA	1:W:405:PRO:HA	1.70	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
1:E:847:ARG:HA	2:O:305:LEU:HA	2.03	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
3:P:869:GLU:HA	3:P:872:LEU:O	2.19	0.41
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.41
4:R:396:GLN:O	4:R:397:ARG:C	2.61	0.41
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.41
1:W:404:LYS:HA	1:W:405:PRO:HA	1.70	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
1:E:847:ARG:HA	2:O:305:LEU:HA	2.03	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
3:P:869:GLU:HA	3:P:872:LEU:O	2.19	0.41
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.41
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.41
1:W:404:LYS:HA	1:W:405:PRO:HA	1.70	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
3:D:1487:ASP:O	3:D:1488:GLY:C	2.59	0.41
3:D:1563:VAL:O	3:D:1569:GLY:HA3	2.21	0.41
1:E:847:ARG:HA	2:O:305:LEU:HA	2.03	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.41
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.41
1:W:404:LYS:HA	1:W:405:PRO:HA	1.70	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
3:D:1487:ASP:O	3:D:1488:GLY:C	2.59	0.41
3:D:1563:VAL:O	3:D:1569:GLY:HA3	2.21	0.41
1:E:1352:LEU:C	1:E:1354:LEU:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.41
1:W:404:LYS:HA	1:W:405:PRO:HA	1.70	0.41
1:B:230:GLY:C	1:B:232:ASP:H	2.29	0.41
1:E:1352:LEU:C	1:E:1354:LEU:N	2.79	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
2:O:480:PHE:O	2:O:484:ARG:CB	2.68	0.41
3:P:869:GLU:HA	3:P:872:LEU:O	2.19	0.41
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.41
1:W:404:LYS:HA	1:W:405:PRO:HA	1.70	0.41
1:A:221:THR:C	1:A:223:ASN:H	2.28	0.41
2:C:214:GLU:O	2:C:215:LEU:CB	2.68	0.41
2:C:535:TYR:N	3:D:1663:GLN:HA	2.31	0.41
3:D:1472:SER:C	3:D:1474:GLY:N	2.75	0.41
3:D:1506:VAL:O	3:D:1508:LYS:N	2.47	0.41
3:D:1537:GLN:C	3:D:1539:LEU:H	2.28	0.41
1:E:230:GLY:C	1:E:232:ASP:H	2.29	0.41
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.41
6:H:493:ALA:O	6:H:497:ARG:CB	2.68	0.41
2:I:214:GLU:O	2:I:215:LEU:CB	2.68	0.41
2:I:648:PRO:C	2:I:650:VAL:H	2.29	0.41
4:L:453:TYR:O	4:L:455:ILE:N	2.54	0.41
5:M:344:ASP:O	5:M:348:ILE:N	2.54	0.41
6:N:360:ALA:O	6:N:363:ARG:CB	2.69	0.41
2:O:214:GLU:O	2:O:215:LEU:CB	2.68	0.41
1:Q:404:LYS:HA	1:Q:405:PRO:HA	1.70	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
5:S:339:TYR:C	5:S:340:ALA:C	2.51	0.41
5:S:366:GLU:CB	5:S:367:LEU:N	2.81	0.41
6:T:490:GLN:CB	6:T:490:GLN:O	2.66	0.41
2:U:214:GLU:O	2:U:215:LEU:CB	2.68	0.41
1:W:221:THR:C	1:W:223:ASN:H	2.28	0.41
6:Z:408:SER:C	6:Z:410:LEU:H	2.28	0.41
2:C:279:HIS:HA	2:C:283:LEU:HA	2.02	0.41
2:C:726:SER:HA	1:K:85:ARG:C	2.41	0.41
2:C:782:ASP:CB	1:K:96:GLN:CB	2.99	0.41
3:D:1506:VAL:O	3:D:1508:LYS:N	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1537:GLN:C	3:D:1539:LEU:H	2.28	0.41
4:F:421:LEU:O	4:F:422:ASN:C	2.63	0.41
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.41
1:Q:205:LEU:C	1:Q:207:SER:CA	2.93	0.41
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.41
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.41
4:R:449:SER:C	4:R:451:GLU:N	2.79	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
3:V:1563:VAL:O	3:V:1569:GLY:HA3	2.21	0.41
1:W:376:ARG:C	1:W:380:ALA:CA	2.94	0.41
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.41
4:X:405:ALA:HB3	4:X:406:ASP:H	1.17	0.41
2:C:279:HIS:HA	2:C:283:LEU:HA	2.02	0.41
2:C:726:SER:HA	1:K:85:ARG:C	2.41	0.41
2:C:782:ASP:CB	1:K:96:GLN:CB	2.99	0.41
3:D:1506:VAL:O	3:D:1508:LYS:N	2.47	0.41
3:D:1537:GLN:C	3:D:1539:LEU:H	2.28	0.41
4:F:421:LEU:O	4:F:422:ASN:C	2.63	0.41
5:G:325:ALA:CA	5:G:326:LEU:N	2.69	0.41
4:L:453:TYR:O	4:L:455:ILE:N	2.54	0.41
5:M:326:LEU:C	5:M:327:ARG:HA	2.28	0.41
5:M:344:ASP:O	5:M:348:ILE:N	2.54	0.41
1:Q:205:LEU:C	1:Q:207:SER:CA	2.93	0.41
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.41
4:R:328:VAL:C	4:R:328:VAL:N	2.68	0.41
4:R:449:SER:C	4:R:451:GLU:N	2.79	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
3:V:1563:VAL:O	3:V:1569:GLY:HA3	2.21	0.41
1:W:376:ARG:C	1:W:380:ALA:CA	2.94	0.41
5:Y:344:ASP:O	5:Y:348:ILE:N	2.54	0.41
2:C:279:HIS:HA	2:C:283:LEU:HA	2.02	0.41
2:C:726:SER:HA	1:K:85:ARG:C	2.41	0.41
2:C:782:ASP:CB	1:K:96:GLN:CB	2.99	0.41
3:D:1506:VAL:O	3:D:1508:LYS:N	2.47	0.41
3:D:1537:GLN:C	3:D:1539:LEU:H	2.28	0.41
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.41
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.41
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.41
6:H:490:GLN:CB	6:H:490:GLN:O	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:205:LEU:C	1:Q:207:SER:CA	2.93	0.41
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.41
4:R:422:ASN:CB	4:R:423:ALA:CB	2.94	0.41
6:T:490:GLN:CB	6:T:490:GLN:O	2.66	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
3:V:1563:VAL:O	3:V:1569:GLY:HA3	2.21	0.41
1:W:376:ARG:C	1:W:380:ALA:CA	2.94	0.41
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.41
4:X:405:ALA:HB3	4:X:406:ASP:H	1.17	0.41
2:C:279:HIS:HA	2:C:283:LEU:HA	2.02	0.41
2:C:523:LEU:CB	3:D:1662:CYS:CB	2.99	0.41
2:C:726:SER:HA	1:K:85:ARG:C	2.41	0.41
2:C:782:ASP:CB	1:K:96:GLN:CB	2.99	0.41
3:D:744:PHE:C	3:D:746:ARG:CA	2.94	0.41
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.41
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.41
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.41
6:H:490:GLN:CB	6:H:490:GLN:O	2.66	0.41
3:P:1563:VAL:O	3:P:1569:GLY:HA3	2.21	0.41
1:Q:205:LEU:C	1:Q:207:SER:CA	2.93	0.41
1:Q:1029:ARG:C	1:Q:1034:LEU:N	2.78	0.41
4:R:422:ASN:CB	4:R:423:ALA:CB	2.94	0.41
6:T:490:GLN:CB	6:T:490:GLN:O	2.66	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
3:V:1563:VAL:O	3:V:1569:GLY:HA3	2.21	0.41
1:W:376:ARG:C	1:W:380:ALA:CA	2.94	0.41
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.41
4:X:405:ALA:HB3	4:X:406:ASP:H	1.17	0.41
2:C:279:HIS:HA	2:C:283:LEU:HA	2.02	0.41
2:C:523:LEU:CB	3:D:1662:CYS:CB	2.99	0.41
2:C:726:SER:HA	1:K:85:ARG:C	2.41	0.41
2:C:782:ASP:CB	1:K:96:GLN:CB	2.99	0.41
3:D:744:PHE:C	3:D:746:ARG:CA	2.94	0.41
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.41
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.41
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.41
6:H:490:GLN:CB	6:H:490:GLN:O	2.66	0.41
3:P:1563:VAL:O	3:P:1569:GLY:HA3	2.21	0.41
4:R:422:ASN:CB	4:R:423:ALA:CB	2.94	0.41
6:T:490:GLN:CB	6:T:490:GLN:O	2.66	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:V:1563:VAL:O	3:V:1569:GLY:HA3	2.21	0.41
1:W:376:ARG:C	1:W:380:ALA:CA	2.94	0.41
4:X:396:GLN:O	4:X:397:ARG:C	2.61	0.41
4:X:405:ALA:HB3	4:X:406:ASP:H	1.17	0.41
2:C:279:HIS:HA	2:C:283:LEU:HA	2.02	0.41
2:C:726:SER:HA	1:K:85:ARG:C	2.41	0.41
2:C:782:ASP:CB	1:K:96:GLN:CB	2.99	0.41
3:D:1506:VAL:O	3:D:1508:LYS:N	2.47	0.41
3:D:1537:GLN:C	3:D:1539:LEU:H	2.28	0.41
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.41
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.41
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.41
6:H:490:GLN:CB	6:H:490:GLN:O	2.66	0.41
4:L:453:TYR:O	4:L:455:ILE:N	2.54	0.41
5:M:326:LEU:C	5:M:327:ARG:HA	2.28	0.41
5:M:344:ASP:O	5:M:348:ILE:N	2.54	0.41
4:R:422:ASN:CB	4:R:423:ALA:CB	2.94	0.41
6:T:490:GLN:CB	6:T:490:GLN:O	2.66	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
3:V:1563:VAL:O	3:V:1569:GLY:HA3	2.21	0.41
1:W:376:ARG:C	1:W:380:ALA:CA	2.94	0.41
5:Y:344:ASP:O	5:Y:348:ILE:N	2.54	0.41
1:E:221:THR:C	1:E:223:ASN:H	2.28	0.41
4:F:421:LEU:O	4:F:422:ASN:C	2.63	0.41
4:L:460:LEU:O	4:L:461:ARG:C	2.63	0.41
1:Q:221:THR:C	1:Q:223:ASN:H	2.28	0.41
1:Q:350:ASN:HA	1:Q:353:SER:O	2.21	0.41
1:Q:1289:MET:CB	3:V:680:SER:N	2.84	0.41
4:R:460:LEU:O	4:R:461:ARG:O	2.38	0.41
5:S:344:ASP:O	5:S:348:ILE:N	2.54	0.41
2:U:648:PRO:C	2:U:650:VAL:H	2.29	0.41
5:Y:344:ASP:O	5:Y:348:ILE:N	2.54	0.41
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.41
4:F:453:TYR:O	4:F:455:ILE:N	2.54	0.41
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.41
1:K:350:ASN:HA	1:K:353:SER:O	2.21	0.41
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
4:L:454:TYR:C	4:L:455:ILE:CB	2.79	0.41
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F:453:TYR:O	4:F:455:ILE:N	2.54	0.41
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.41
1:K:350:ASN:HA	1:K:353:SER:O	2.21	0.41
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.41
1:K:350:ASN:HA	1:K:353:SER:O	2.21	0.41
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
4:L:454:TYR:C	4:L:455:ILE:CB	2.79	0.41
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.41
3:D:1474:GLY:O	3:D:1475:ALA:C	2.55	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.41
1:K:350:ASN:HA	1:K:353:SER:O	2.21	0.41
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
4:L:454:TYR:C	4:L:455:ILE:CB	2.79	0.41
3:P:744:PHE:C	3:P:746:ARG:CA	2.94	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.41
3:D:1474:GLY:O	3:D:1475:ALA:C	2.55	0.41
1:E:1301:GLU:C	3:J:172:ARG:HA	2.46	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.41
1:K:350:ASN:HA	1:K:353:SER:O	2.21	0.41
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
4:L:454:TYR:C	4:L:455:ILE:CB	2.79	0.41
3:P:744:PHE:C	3:P:746:ARG:CA	2.94	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.41
1:E:1301:GLU:C	3:J:172:ARG:HA	2.46	0.41
4:F:451:GLU:O	4:F:452:ARG:C	2.63	0.41
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.41
1:K:350:ASN:HA	1:K:353:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:ARG:C	1:K:380:ALA:CA	2.94	0.41
3:P:1664:ASP:N	3:P:1667:ALA:CB	2.82	0.41
4:R:460:LEU:O	4:R:461:ARG:C	2.63	0.41
1:W:1352:LEU:C	1:W:1354:LEU:N	2.79	0.41
3:D:1492:GLY:O	3:D:1495:LEU:N	2.53	0.40
1:E:852:VAL:HA	2:O:305:LEU:CB	2.51	0.40
5:G:339:TYR:C	5:G:340:ALA:C	2.50	0.40
5:G:344:ASP:O	5:G:348:ILE:N	2.54	0.40
6:H:404:GLU:O	6:H:405:ASP:C	2.64	0.40
4:L:449:SER:C	4:L:451:GLU:N	2.79	0.40
3:P:1449:TRP:O	3:P:1450:GLU:C	2.62	0.40
3:V:340:ILE:C	3:V:342:GLN:H	2.28	0.40
3:V:1506:VAL:O	3:V:1508:LYS:N	2.47	0.40
5:Y:379:HIS:N	5:Y:379:HIS:CB	2.72	0.40
6:Z:360:ALA:O	6:Z:363:ARG:CB	2.69	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:B:542:HIS:O	1:B:543:GLN:CB	2.69	0.40
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.40
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.40
2:O:588:GLU:O	1:W:848:ASP:CB	2.69	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
4:X:452:ARG:HA	4:X:453:TYR:HA	1.90	0.40
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:B:542:HIS:O	1:B:543:GLN:CB	2.69	0.40
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.40
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.40
2:O:588:GLU:O	1:W:848:ASP:CB	2.69	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
4:X:453:TYR:O	4:X:455:ILE:N	2.54	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:B:542:HIS:O	1:B:543:GLN:CB	2.69	0.40
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.40
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.40
2:O:588:GLU:O	1:W:848:ASP:CB	2.69	0.40
4:R:405:ALA:HB3	4:R:406:ASP:H	1.17	0.40
6:T:360:ALA:O	6:T:363:ARG:CB	2.69	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.86	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
4:X:452:ARG:HA	4:X:453:TYR:HA	1.90	0.40
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:B:542:HIS:O	1:B:543:GLN:CB	2.69	0.40
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.40
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.40
2:O:588:GLU:O	1:W:848:ASP:CB	2.69	0.40
4:R:405:ALA:HB3	4:R:406:ASP:H	1.17	0.40
6:T:360:ALA:O	6:T:363:ARG:CB	2.69	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.86	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
4:X:452:ARG:HA	4:X:453:TYR:HA	1.90	0.40
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:B:542:HIS:O	1:B:543:GLN:CB	2.69	0.40
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.40
2:O:588:GLU:O	1:W:848:ASP:CB	2.69	0.40
4:R:405:ALA:HB3	4:R:406:ASP:H	1.17	0.40
6:T:360:ALA:O	6:T:363:ARG:CB	2.69	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.86	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
4:X:452:ARG:HA	4:X:453:TYR:HA	1.90	0.40
4:X:460:LEU:O	4:X:461:ARG:C	2.63	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:B:542:HIS:O	1:B:543:GLN:CB	2.69	0.40
1:K:230:GLY:C	1:K:232:ASP:H	2.29	0.40
2:O:588:GLU:O	1:W:848:ASP:CB	2.69	0.40
4:R:405:ALA:HB3	4:R:406:ASP:H	1.17	0.40
6:T:360:ALA:O	6:T:363:ARG:CB	2.69	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.86	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
4:X:453:TYR:O	4:X:455:ILE:N	2.54	0.40
1:A:230:GLY:C	1:A:232:ASP:H	2.29	0.40
1:E:205:LEU:C	1:E:207:SER:CA	2.93	0.40
4:F:450:GLU:O	4:F:451:GLU:CA	2.33	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
1:K:1352:LEU:C	1:K:1354:LEU:N	2.79	0.40
4:L:421:LEU:O	4:L:422:ASN:C	2.63	0.40
3:P:744:PHE:C	3:P:746:ARG:N	2.79	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
1:A:350:ASN:HA	1:A:353:SER:O	2.21	0.40
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
2:O:173:PRO:CB	3:P:1681:SER:CB	2.98	0.40
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.40
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.40
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.40
1:A:350:ASN:HA	1:A:353:SER:O	2.21	0.40
4:F:460:LEU:O	4:F:461:ARG:O	2.39	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
2:O:173:PRO:CB	3:P:1681:SER:CB	2.98	0.40
4:R:459:LEU:C	4:R:459:LEU:N	2.63	0.40
6:Z:360:ALA:O	6:Z:363:ARG:CB	2.69	0.40
1:A:350:ASN:HA	1:A:353:SER:O	2.21	0.40
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
2:O:173:PRO:CB	3:P:1681:SER:CB	2.98	0.40
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.40
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.40
1:A:350:ASN:HA	1:A:353:SER:O	2.21	0.40
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
2:O:523:LEU:CB	3:P:1662:CYS:CA	2.99	0.40
2:O:523:LEU:CB	3:P:1662:CYS:CB	2.99	0.40
3:P:1489:HIS:CB	3:P:1492:GLY:N	2.81	0.40
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.40
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.40
1:A:350:ASN:HA	1:A:353:SER:O	2.21	0.40
1:E:350:ASN:HA	1:E:353:SER:O	2.21	0.40
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
2:O:523:LEU:CB	3:P:1662:CYS:CA	2.99	0.40
2:O:523:LEU:CB	3:P:1662:CYS:CB	2.99	0.40
3:P:1489:HIS:CB	3:P:1492:GLY:N	2.81	0.40
1:Q:350:ASN:HA	1:Q:353:SER:O	2.21	0.40
4:X:460:LEU:O	4:X:461:ARG:O	2.39	0.40
4:X:465:GLN:O	4:X:466:HIS:C	2.57	0.40
1:A:350:ASN:HA	1:A:353:SER:O	2.21	0.40
1:E:350:ASN:HA	1:E:353:SER:O	2.21	0.40
4:F:465:GLN:O	4:F:466:HIS:C	2.57	0.40
2:I:234:LEU:CB	2:I:250:VAL:C	2.95	0.40
2:O:173:PRO:CB	3:P:1681:SER:CB	2.98	0.40
1:Q:350:ASN:HA	1:Q:353:SER:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:Z:360:ALA:O	6:Z:363:ARG:CB	2.69	0.40
1:B:350:ASN:HA	1:B:353:SER:O	2.21	0.40
1:E:542:HIS:O	1:E:543:GLN:CB	2.69	0.40
4:F:460:LEU:O	4:F:461:ARG:C	2.63	0.40
5:M:341:ALA:N	5:M:341:ALA:C	2.68	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.87	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.95	0.40
3:V:744:PHE:C	3:V:746:ARG:N	2.79	0.40
6:H:490:GLN:HA	6:H:493:ALA:H	1.87	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
4:L:492:GLU:C	4:L:492:GLU:N	2.66	0.40
2:O:648:PRO:C	2:O:650:VAL:H	2.29	0.40
2:O:780:ASP:CB	1:W:136:TYR:CB	2.99	0.40
3:P:1520:GLY:O	3:P:1521:TYR:C	2.62	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
4:X:298:GLN:O	4:X:299:ASN:CB	2.70	0.40
4:X:454:TYR:C	4:X:455:ILE:CB	2.79	0.40
6:H:490:GLN:HA	6:H:493:ALA:H	1.87	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
5:M:339:TYR:C	5:M:340:ALA:C	2.50	0.40
6:N:360:ALA:O	6:N:363:ARG:CB	2.69	0.40
2:O:648:PRO:C	2:O:650:VAL:H	2.29	0.40
2:O:780:ASP:CB	1:W:136:TYR:CB	2.99	0.40
3:P:1520:GLY:O	3:P:1521:TYR:C	2.62	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
5:Y:366:GLU:CB	5:Y:367:LEU:N	2.81	0.40
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
4:L:492:GLU:C	4:L:492:GLU:N	2.66	0.40
2:O:648:PRO:C	2:O:650:VAL:H	2.29	0.40
2:O:780:ASP:CB	1:W:136:TYR:CB	2.99	0.40
3:P:1520:GLY:O	3:P:1521:TYR:C	2.62	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
4:X:298:GLN:O	4:X:299:ASN:CB	2.70	0.40
4:X:454:TYR:C	4:X:455:ILE:CB	2.79	0.40
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
4:L:492:GLU:C	4:L:492:GLU:N	2.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:648:PRO:C	2:O:650:VAL:H	2.29	0.40
2:O:780:ASP:CB	1:W:136:TYR:CB	2.99	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
4:X:298:GLN:O	4:X:299:ASN:CB	2.70	0.40
4:X:454:TYR:C	4:X:455:ILE:CB	2.79	0.40
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
4:L:492:GLU:C	4:L:492:GLU:N	2.66	0.40
2:O:648:PRO:C	2:O:650:VAL:H	2.29	0.40
2:O:780:ASP:CB	1:W:136:TYR:CB	2.99	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
4:X:298:GLN:O	4:X:299:ASN:CB	2.70	0.40
4:X:454:TYR:C	4:X:455:ILE:CB	2.79	0.40
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
5:M:339:TYR:C	5:M:340:ALA:C	2.50	0.40
6:N:360:ALA:O	6:N:363:ARG:CB	2.69	0.40
2:O:648:PRO:C	2:O:650:VAL:H	2.29	0.40
2:O:780:ASP:CB	1:W:136:TYR:CB	2.99	0.40
3:P:1520:GLY:O	3:P:1521:TYR:C	2.62	0.40
2:U:234:LEU:CB	2:U:250:VAL:C	2.95	0.40
1:W:350:ASN:HA	1:W:353:SER:O	2.21	0.40
5:Y:366:GLU:CB	5:Y:367:LEU:N	2.81	0.40
2:C:307:GLY:H	1:Q:849:ASN:CB	2.35	0.40
1:E:340:LYS:C	1:E:342:ILE:N	2.80	0.40
1:E:849:ASN:H	2:O:303:ALA:HA	1.87	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:455:VAL:C	2:I:460:PHE:CB	2.95	0.40
3:J:744:PHE:C	3:J:746:ARG:N	2.79	0.40
3:J:1563:VAL:O	3:J:1569:GLY:HA3	2.21	0.40
4:L:328:VAL:C	4:L:328:VAL:N	2.68	0.40
2:U:455:VAL:C	2:U:460:PHE:CB	2.95	0.40
3:V:1537:GLN:C	3:V:1539:LEU:H	2.28	0.40
3:V:1544:PRO:O	3:V:1545:PRO:C	2.63	0.40
1:A:376:ARG:C	1:A:380:ALA:CA	2.94	0.40
2:C:648:PRO:C	2:C:650:VAL:H	2.29	0.40
1:E:340:LYS:C	1:E:342:ILE:N	2.80	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:644:LYS:N	3:J:1448:MET:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:452:ARG:HA	4:L:453:TYR:HA	1.90	0.40
4:R:466:HIS:O	4:R:467:LEU:C	2.58	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.87	0.40
2:U:640:GLU:O	3:V:1452:LEU:CA	2.59	0.40
1:W:942:PRO:HA	1:W:943:GLN:HA	1.48	0.40
1:A:376:ARG:C	1:A:380:ALA:CA	2.94	0.40
2:C:648:PRO:C	2:C:650:VAL:H	2.29	0.40
1:E:340:LYS:C	1:E:342:ILE:N	2.80	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:644:LYS:N	3:J:1448:MET:O	2.21	0.40
4:R:466:HIS:O	4:R:467:LEU:C	2.58	0.40
6:T:490:GLN:HA	6:T:493:ALA:H	1.87	0.40
2:U:640:GLU:O	3:V:1452:LEU:CA	2.59	0.40
1:W:942:PRO:HA	1:W:943:GLN:HA	1.48	0.40
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.40
1:A:376:ARG:C	1:A:380:ALA:CA	2.94	0.40
2:C:648:PRO:C	2:C:650:VAL:H	2.29	0.40
1:E:340:LYS:C	1:E:342:ILE:N	2.80	0.40
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.40
6:H:360:ALA:O	6:H:363:ARG:CB	2.69	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:644:LYS:N	3:J:1448:MET:O	2.21	0.40
4:L:452:ARG:HA	4:L:453:TYR:HA	1.90	0.40
2:U:640:GLU:O	3:V:1452:LEU:CA	2.59	0.40
1:W:942:PRO:HA	1:W:943:GLN:HA	1.48	0.40
1:A:376:ARG:C	1:A:380:ALA:CA	2.94	0.40
2:C:648:PRO:C	2:C:650:VAL:H	2.29	0.40
1:E:340:LYS:C	1:E:342:ILE:N	2.80	0.40
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.40
6:H:360:ALA:O	6:H:363:ARG:CB	2.69	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:644:LYS:N	3:J:1448:MET:O	2.21	0.40
4:L:452:ARG:HA	4:L:453:TYR:HA	1.90	0.40
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.40
2:U:640:GLU:O	3:V:1452:LEU:CA	2.59	0.40
1:W:942:PRO:HA	1:W:943:GLN:HA	1.48	0.40
1:A:376:ARG:C	1:A:380:ALA:CA	2.94	0.40
2:C:648:PRO:C	2:C:650:VAL:H	2.29	0.40
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.40
6:H:360:ALA:O	6:H:363:ARG:CB	2.69	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:644:LYS:N	3:J:1448:MET:O	2.21	0.40
4:L:452:ARG:HA	4:L:453:TYR:HA	1.90	0.40
3:P:1539:LEU:O	3:P:1540:LEU:C	2.40	0.40
2:U:640:GLU:O	3:V:1452:LEU:CA	2.59	0.40
1:W:942:PRO:HA	1:W:943:GLN:HA	1.48	0.40
1:A:376:ARG:C	1:A:380:ALA:CA	2.94	0.40
2:C:648:PRO:C	2:C:650:VAL:H	2.29	0.40
4:F:148:TRP:C	4:F:150:THR:N	2.74	0.40
6:H:360:ALA:O	6:H:363:ARG:CB	2.69	0.40
2:I:447:ASP:C	2:I:448:TYR:CA	2.94	0.40
2:I:644:LYS:N	3:J:1448:MET:O	2.21	0.40
2:U:640:GLU:O	3:V:1452:LEU:CA	2.59	0.40
1:W:942:PRO:HA	1:W:943:GLN:HA	1.48	0.40
4:X:148:TRP:C	4:X:150:THR:N	2.74	0.40
1:A:542:HIS:O	1:A:543:GLN:CB	2.69	0.40
2:C:447:ASP:C	2:C:448:TYR:CA	2.94	0.40
3:D:1493:ARG:O	3:D:1494:MET:C	2.47	0.40
4:L:140:LYS:O	4:L:149:GLY:CA	2.70	0.40
6:N:383:LYS:C	6:N:385:ASP:N	2.75	0.40
1:Q:340:LYS:C	1:Q:342:ILE:N	2.80	0.40
4:R:421:LEU:O	4:R:422:ASN:C	2.63	0.40
5:S:378:SER:CA	5:S:378:SER:O	2.51	0.40
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.40
1:E:350:ASN:HA	1:E:353:SER:O	2.21	0.40
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.40
4:L:298:GLN:O	4:L:299:ASN:CB	2.70	0.40
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.40
2:O:455:VAL:C	2:O:460:PHE:CB	2.95	0.40
4:R:489:LYS:O	4:R:490:LEU:C	2.63	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.94	0.40
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.40
1:E:350:ASN:HA	1:E:353:SER:O	2.21	0.40
4:F:449:SER:C	4:F:451:GLU:N	2.79	0.40
2:O:455:VAL:C	2:O:460:PHE:CB	2.95	0.40
4:R:489:LYS:O	4:R:490:LEU:C	2.63	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.94	0.40
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.40
1:E:350:ASN:HA	1:E:353:SER:O	2.21	0.40
6:H:490:GLN:HA	6:H:493:ALA:H	1.87	0.40
4:L:298:GLN:O	4:L:299:ASN:CB	2.70	0.40
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:455:VAL:C	2:O:460:PHE:CB	2.95	0.40
4:R:449:SER:C	4:R:451:GLU:N	2.79	0.40
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.94	0.40
3:D:1489:HIS:CB	3:D:1492:GLY:N	2.81	0.40
1:E:350:ASN:HA	1:E:353:SER:O	2.21	0.40
6:H:490:GLN:HA	6:H:493:ALA:H	1.87	0.40
4:L:298:GLN:O	4:L:299:ASN:CB	2.70	0.40
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.40
2:O:455:VAL:C	2:O:460:PHE:CB	2.95	0.40
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.40
4:R:449:SER:C	4:R:451:GLU:N	2.79	0.40
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.94	0.40
3:D:1489:HIS:CB	3:D:1492:GLY:N	2.81	0.40
1:E:847:ARG:O	2:O:303:ALA:O	2.32	0.40
6:H:490:GLN:HA	6:H:493:ALA:H	1.87	0.40
4:L:298:GLN:O	4:L:299:ASN:CB	2.70	0.40
4:L:460:LEU:O	4:L:461:ARG:O	2.39	0.40
2:O:455:VAL:C	2:O:460:PHE:CB	2.95	0.40
3:P:1492:GLY:O	3:P:1495:LEU:N	2.53	0.40
4:R:449:SER:C	4:R:451:GLU:N	2.79	0.40
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.94	0.40
3:D:1539:LEU:O	3:D:1540:LEU:C	2.40	0.40
1:E:847:ARG:O	2:O:303:ALA:O	2.32	0.40
6:H:490:GLN:HA	6:H:493:ALA:H	1.87	0.40
2:O:455:VAL:C	2:O:460:PHE:CB	2.95	0.40
4:R:449:SER:C	4:R:451:GLU:N	2.79	0.40
4:R:465:GLN:O	4:R:466:HIS:C	2.57	0.40
2:U:447:ASP:C	2:U:448:TYR:CA	2.94	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1-A	612/1391 (44%)	562 (92%)	38 (6%)	12 (2%)	6	31
1	1-B	612/1391 (44%)	562 (92%)	38 (6%)	12 (2%)	6	31
1	1-E	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	1-K	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	1-Q	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	1-W	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
1	2-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	2-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	2-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	2-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	2-Q	1027/1391 (74%)	950 (92%)	56 (6%)	21 (2%)	6	31
1	2-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	3-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	3-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	3-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	3-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	3-Q	1027/1391 (74%)	950 (92%)	56 (6%)	21 (2%)	6	31
1	3-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	4-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	4-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	4-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	4-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	4-Q	1027/1391 (74%)	950 (92%)	56 (6%)	21 (2%)	6	31
1	4-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	5-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	5-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	5-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	5-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	5-Q	1027/1391 (74%)	950 (92%)	56 (6%)	21 (2%)	6	31
1	5-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	6-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	6-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	6-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	6-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	6-Q	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	6-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	7-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	7-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	7-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	7-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	7-Q	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	7-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	8-A	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	8-B	612/1391 (44%)	564 (92%)	37 (6%)	11 (2%)	6	34
1	8-E	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	8-K	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	8-Q	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
1	8-W	1027/1391 (74%)	949 (92%)	57 (6%)	21 (2%)	6	31
2	1-C	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	1-I	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	1-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	1-U	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	2-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	2-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	2-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	2-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	3-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	3-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	3-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	3-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	4-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	4-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	4-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	4-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	5-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	5-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	5-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	5-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	6-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	6-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	6-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	6-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	7-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	7-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	7-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	7-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	8-C	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
2	8-I	618/819 (76%)	515 (83%)	59 (10%)	44 (7%)	1	11
2	8-O	618/819 (76%)	516 (84%)	59 (10%)	43 (7%)	1	11
2	8-U	618/819 (76%)	516 (84%)	58 (9%)	44 (7%)	1	11
3	1-D	972/2012 (48%)	899 (92%)	59 (6%)	14 (1%)	9	40
3	1-J	972/2012 (48%)	899 (92%)	59 (6%)	14 (1%)	9	40
3	1-P	972/2012 (48%)	899 (92%)	59 (6%)	14 (1%)	9	40
3	1-V	972/2012 (48%)	899 (92%)	59 (6%)	14 (1%)	9	40
3	2-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	2-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	2-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	2-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	3-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	3-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	3-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	3-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	4-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	4-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	4-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	4-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	5-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	5-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	5-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	5-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	6-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	6-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	6-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	6-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	7-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	7-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	7-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	7-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	8-D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	8-J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	8-P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
3	8-V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
4	1-F	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	1-L	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	1-R	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	1-X	329/507 (65%)	286 (87%)	21 (6%)	22 (7%)	1	12
4	2-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	2-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	2-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	2-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	3-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	3-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	3-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	3-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	4-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	4-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	4-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	4-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	5-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	5-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	5-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	5-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	6-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	6-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	6-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	6-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	7-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	7-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	7-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	7-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	8-F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	8-L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	8-R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
4	8-X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
5	1-G	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	1-M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	1-S	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	1-Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	2-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	2-M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	2-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	2-Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	3-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	3-M	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	3-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	3-Y	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	4-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	4-M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	4-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	4-Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	5-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	5-M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	5-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	5-Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	6-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	6-M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	6-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	6-Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	7-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	7-M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	7-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	7-Y	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	8-G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
5	8-M	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	8-S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
5	8-Y	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
6	1-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	1-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	1-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	1-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	2-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	2-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	2-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	2-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	3-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	3-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	3-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	3-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	4-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	4-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	4-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	4-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	5-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	5-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	5-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	5-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	6-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	6-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	6-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	6-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	7-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	7-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	7-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	7-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	8-H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	8-N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	8-T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
6	8-Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
All	All	114816/209456 (55%)	104157 (91%)	6943 (6%)	3716 (3%)	5	21

All (3716) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1-A	332	ARG
1	1-A	443	LYS
1	1-A	543	GLN
1	1-A	802	GLN
1	1-B	332	ARG
1	1-B	443	LYS

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Mol	Chain	Res	Type
1	1-B	543	GLN
1	1-B	802	GLN
2	1-C	24	SER
2	1-C	252	MET
2	1-C	278	LEU
2	1-C	301	LEU
2	1-C	382	ASN
2	1-C	383	THR
2	1-C	587	LEU
2	1-C	592	SER
2	1-C	603	SER
2	1-C	623	GLU
2	1-C	652	GLN
2	1-C	655	ALA
2	1-C	656	PRO
2	1-C	661	GLU
2	1-C	662	ARG
2	1-C	723	ASN
2	1-C	764	LYS
3	1-D	453	ASN
3	1-D	1451	ARG
3	1-D	1637	GLN
3	1-D	1662	CYS
3	1-D	1664	ASP
1	1-E	332	ARG
1	1-E	443	LYS
1	1-E	543	GLN
1	1-E	802	GLN
1	1-E	1320	PRO
1	1-E	1343	ASN
1	1-E	1351	ASN
1	1-E	1369	SER
4	1-F	148	TRP
4	1-F	222	THR
4	1-F	318	ASP
4	1-F	403	ILE
4	1-F	405	ALA
4	1-F	451	GLU
4	1-F	453	TYR
4	1-F	454	TYR
4	1-F	458	ASP
4	1-F	464	LYS

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Mol	Chain	Res	Type
5	1-G	276	SER
5	1-G	327	ARG
5	1-G	335	LEU
6	1-H	426	ALA
6	1-H	466	ASP
2	1-I	24	SER
2	1-I	252	MET
2	1-I	278	LEU
2	1-I	301	LEU
2	1-I	382	ASN
2	1-I	383	THR
2	1-I	587	LEU
2	1-I	592	SER
2	1-I	603	SER
2	1-I	623	GLU
2	1-I	652	GLN
2	1-I	655	ALA
2	1-I	656	PRO
2	1-I	661	GLU
2	1-I	662	ARG
2	1-I	723	ASN
2	1-I	764	LYS
3	1-J	453	ASN
3	1-J	1451	ARG
3	1-J	1637	GLN
3	1-J	1662	CYS
3	1-J	1664	ASP
1	1-K	332	ARG
1	1-K	443	LYS
1	1-K	543	GLN
1	1-K	802	GLN
1	1-K	1320	PRO
1	1-K	1343	ASN
1	1-K	1351	ASN
1	1-K	1369	SER
4	1-L	148	TRP
4	1-L	222	THR
4	1-L	318	ASP
4	1-L	403	ILE
4	1-L	405	ALA
4	1-L	451	GLU
4	1-L	453	TYR

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Mol	Chain	Res	Type
4	1-L	454	TYR
4	1-L	458	ASP
4	1-L	464	LYS
5	1-M	276	SER
5	1-M	327	ARG
5	1-M	335	LEU
6	1-N	426	ALA
6	1-N	466	ASP
2	1-O	24	SER
2	1-O	252	MET
2	1-O	278	LEU
2	1-O	301	LEU
2	1-O	382	ASN
2	1-O	383	THR
2	1-O	587	LEU
2	1-O	592	SER
2	1-O	603	SER
2	1-O	623	GLU
2	1-O	652	GLN
2	1-O	655	ALA
2	1-O	656	PRO
2	1-O	661	GLU
2	1-O	662	ARG
2	1-O	723	ASN
2	1-O	764	LYS
3	1-P	453	ASN
3	1-P	1451	ARG
3	1-P	1637	GLN
3	1-P	1662	CYS
3	1-P	1664	ASP
1	1-Q	332	ARG
1	1-Q	443	LYS
1	1-Q	543	GLN
1	1-Q	802	GLN
1	1-Q	1320	PRO
1	1-Q	1343	ASN
1	1-Q	1351	ASN
1	1-Q	1369	SER
4	1-R	148	TRP
4	1-R	222	THR
4	1-R	318	ASP
4	1-R	403	ILE

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Mol	Chain	Res	Type
4	1-R	405	ALA
4	1-R	451	GLU
4	1-R	453	TYR
4	1-R	454	TYR
4	1-R	458	ASP
4	1-R	464	LYS
5	1-S	276	SER
5	1-S	327	ARG
5	1-S	335	LEU
6	1-T	426	ALA
6	1-T	466	ASP
2	1-U	24	SER
2	1-U	252	MET
2	1-U	278	LEU
2	1-U	301	LEU
2	1-U	382	ASN
2	1-U	383	THR
2	1-U	587	LEU
2	1-U	592	SER
2	1-U	603	SER
2	1-U	623	GLU
2	1-U	652	GLN
2	1-U	655	ALA
2	1-U	656	PRO
2	1-U	661	GLU
2	1-U	662	ARG
2	1-U	723	ASN
2	1-U	764	LYS
3	1-V	453	ASN
3	1-V	1451	ARG
3	1-V	1637	GLN
3	1-V	1662	CYS
3	1-V	1664	ASP
1	1-W	332	ARG
1	1-W	443	LYS
1	1-W	543	GLN
1	1-W	802	GLN
1	1-W	1320	PRO
1	1-W	1343	ASN
1	1-W	1351	ASN
1	1-W	1369	SER
4	1-X	148	TRP

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Mol	Chain	Res	Type
4	1-X	222	THR
4	1-X	318	ASP
4	1-X	403	ILE
4	1-X	405	ALA
4	1-X	451	GLU
4	1-X	453	TYR
4	1-X	454	TYR
4	1-X	458	ASP
4	1-X	464	LYS
5	1-Y	276	SER
5	1-Y	327	ARG
5	1-Y	335	LEU
6	1-Z	426	ALA
6	1-Z	466	ASP
1	2-A	332	ARG
1	2-A	443	LYS
1	2-A	543	GLN
1	2-A	802	GLN
1	2-B	332	ARG
1	2-B	443	LYS
1	2-B	543	GLN
1	2-B	802	GLN
2	2-C	24	SER
2	2-C	252	MET
2	2-C	278	LEU
2	2-C	301	LEU
2	2-C	382	ASN
2	2-C	383	THR
2	2-C	587	LEU
2	2-C	592	SER
2	2-C	603	SER
2	2-C	623	GLU
2	2-C	652	GLN
2	2-C	655	ALA
2	2-C	656	PRO
2	2-C	661	GLU
2	2-C	662	ARG
2	2-C	723	ASN
2	2-C	764	LYS
3	2-D	47	LYS
3	2-D	52	SER
3	2-D	1451	ARG

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Mol	Chain	Res	Type
3	2-D	1637	GLN
3	2-D	1662	CYS
3	2-D	1664	ASP
1	2-E	332	ARG
1	2-E	443	LYS
1	2-E	543	GLN
1	2-E	802	GLN
1	2-E	1320	PRO
1	2-E	1343	ASN
1	2-E	1351	ASN
1	2-E	1369	SER
4	2-F	148	TRP
4	2-F	318	ASP
4	2-F	403	ILE
4	2-F	405	ALA
4	2-F	451	GLU
4	2-F	453	TYR
4	2-F	454	TYR
4	2-F	458	ASP
4	2-F	464	LYS
5	2-G	276	SER
5	2-G	327	ARG
5	2-G	335	LEU
6	2-H	426	ALA
6	2-H	466	ASP
2	2-I	24	SER
2	2-I	252	MET
2	2-I	278	LEU
2	2-I	301	LEU
2	2-I	382	ASN
2	2-I	383	THR
2	2-I	587	LEU
2	2-I	592	SER
2	2-I	603	SER
2	2-I	623	GLU
2	2-I	652	GLN
2	2-I	655	ALA
2	2-I	656	PRO
2	2-I	661	GLU
2	2-I	662	ARG
2	2-I	723	ASN
2	2-I	764	LYS

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Mol	Chain	Res	Type
3	2-J	47	LYS
3	2-J	52	SER
3	2-J	1451	ARG
3	2-J	1637	GLN
3	2-J	1662	CYS
3	2-J	1664	ASP
1	2-K	332	ARG
1	2-K	443	LYS
1	2-K	543	GLN
1	2-K	802	GLN
1	2-K	1320	PRO
1	2-K	1343	ASN
1	2-K	1351	ASN
1	2-K	1369	SER
4	2-L	148	TRP
4	2-L	318	ASP
4	2-L	403	ILE
4	2-L	405	ALA
4	2-L	451	GLU
4	2-L	453	TYR
4	2-L	454	TYR
4	2-L	458	ASP
4	2-L	464	LYS
5	2-M	276	SER
5	2-M	327	ARG
5	2-M	335	LEU
6	2-N	426	ALA
6	2-N	466	ASP
2	2-O	24	SER
2	2-O	252	MET
2	2-O	278	LEU
2	2-O	301	LEU
2	2-O	382	ASN
2	2-O	383	THR
2	2-O	587	LEU
2	2-O	592	SER
2	2-O	603	SER
2	2-O	623	GLU
2	2-O	652	GLN
2	2-O	655	ALA
2	2-O	656	PRO
2	2-O	661	GLU

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Mol	Chain	Res	Type
2	2-O	662	ARG
2	2-O	723	ASN
2	2-O	764	LYS
3	2-P	47	LYS
3	2-P	52	SER
3	2-P	1451	ARG
3	2-P	1637	GLN
3	2-P	1662	CYS
3	2-P	1664	ASP
1	2-Q	332	ARG
1	2-Q	443	LYS
1	2-Q	543	GLN
1	2-Q	802	GLN
1	2-Q	1320	PRO
1	2-Q	1343	ASN
1	2-Q	1351	ASN
1	2-Q	1369	SER
4	2-R	148	TRP
4	2-R	318	ASP
4	2-R	403	ILE
4	2-R	405	ALA
4	2-R	451	GLU
4	2-R	453	TYR
4	2-R	454	TYR
4	2-R	458	ASP
4	2-R	464	LYS
5	2-S	276	SER
5	2-S	327	ARG
5	2-S	335	LEU
6	2-T	426	ALA
6	2-T	466	ASP
2	2-U	24	SER
2	2-U	252	MET
2	2-U	278	LEU
2	2-U	301	LEU
2	2-U	382	ASN
2	2-U	383	THR
2	2-U	587	LEU
2	2-U	592	SER
2	2-U	603	SER
2	2-U	623	GLU
2	2-U	652	GLN

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Mol	Chain	Res	Type
2	2-U	655	ALA
2	2-U	656	PRO
2	2-U	661	GLU
2	2-U	662	ARG
2	2-U	723	ASN
2	2-U	764	LYS
3	2-V	47	LYS
3	2-V	52	SER
3	2-V	1451	ARG
3	2-V	1637	GLN
3	2-V	1662	CYS
3	2-V	1664	ASP
1	2-W	332	ARG
1	2-W	443	LYS
1	2-W	543	GLN
1	2-W	802	GLN
1	2-W	1320	PRO
1	2-W	1343	ASN
1	2-W	1351	ASN
1	2-W	1369	SER
4	2-X	148	TRP
4	2-X	318	ASP
4	2-X	403	ILE
4	2-X	405	ALA
4	2-X	451	GLU
4	2-X	453	TYR
4	2-X	454	TYR
4	2-X	458	ASP
4	2-X	464	LYS
5	2-Y	276	SER
5	2-Y	327	ARG
5	2-Y	335	LEU
6	2-Z	426	ALA
6	2-Z	466	ASP
1	3-A	332	ARG
1	3-A	443	LYS
1	3-A	543	GLN
1	3-A	802	GLN
1	3-B	332	ARG
1	3-B	443	LYS
1	3-B	543	GLN
1	3-B	802	GLN

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Mol	Chain	Res	Type
2	3-C	24	SER
2	3-C	252	MET
2	3-C	278	LEU
2	3-C	301	LEU
2	3-C	382	ASN
2	3-C	383	THR
2	3-C	587	LEU
2	3-C	592	SER
2	3-C	603	SER
2	3-C	623	GLU
2	3-C	652	GLN
2	3-C	655	ALA
2	3-C	656	PRO
2	3-C	661	GLU
2	3-C	662	ARG
2	3-C	723	ASN
2	3-C	764	LYS
3	3-D	47	LYS
3	3-D	52	SER
3	3-D	1451	ARG
3	3-D	1637	GLN
3	3-D	1662	CYS
3	3-D	1664	ASP
1	3-E	332	ARG
1	3-E	443	LYS
1	3-E	543	GLN
1	3-E	802	GLN
1	3-E	1320	PRO
1	3-E	1343	ASN
1	3-E	1351	ASN
1	3-E	1369	SER
4	3-F	148	TRP
4	3-F	318	ASP
4	3-F	403	ILE
4	3-F	405	ALA
4	3-F	451	GLU
4	3-F	453	TYR
4	3-F	454	TYR
4	3-F	458	ASP
4	3-F	464	LYS
5	3-G	276	SER
5	3-G	327	ARG

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Mol	Chain	Res	Type
5	3-G	335	LEU
6	3-H	426	ALA
6	3-H	466	ASP
2	3-I	24	SER
2	3-I	252	MET
2	3-I	278	LEU
2	3-I	301	LEU
2	3-I	382	ASN
2	3-I	383	THR
2	3-I	587	LEU
2	3-I	592	SER
2	3-I	603	SER
2	3-I	623	GLU
2	3-I	652	GLN
2	3-I	655	ALA
2	3-I	656	PRO
2	3-I	661	GLU
2	3-I	662	ARG
2	3-I	723	ASN
2	3-I	764	LYS
3	3-J	47	LYS
3	3-J	52	SER
3	3-J	1451	ARG
3	3-J	1637	GLN
3	3-J	1662	CYS
3	3-J	1664	ASP
1	3-K	332	ARG
1	3-K	443	LYS
1	3-K	543	GLN
1	3-K	802	GLN
1	3-K	1320	PRO
1	3-K	1343	ASN
1	3-K	1351	ASN
1	3-K	1369	SER
4	3-L	148	TRP
4	3-L	318	ASP
4	3-L	403	ILE
4	3-L	405	ALA
4	3-L	451	GLU
4	3-L	453	TYR
4	3-L	454	TYR
4	3-L	458	ASP

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Mol	Chain	Res	Type
4	3-L	464	LYS
5	3-M	276	SER
5	3-M	327	ARG
5	3-M	335	LEU
6	3-N	426	ALA
6	3-N	466	ASP
2	3-O	24	SER
2	3-O	252	MET
2	3-O	278	LEU
2	3-O	301	LEU
2	3-O	382	ASN
2	3-O	383	THR
2	3-O	587	LEU
2	3-O	592	SER
2	3-O	603	SER
2	3-O	623	GLU
2	3-O	652	GLN
2	3-O	655	ALA
2	3-O	656	PRO
2	3-O	661	GLU
2	3-O	662	ARG
2	3-O	723	ASN
2	3-O	764	LYS
3	3-P	47	LYS
3	3-P	52	SER
3	3-P	1451	ARG
3	3-P	1637	GLN
3	3-P	1662	CYS
3	3-P	1664	ASP
1	3-Q	332	ARG
1	3-Q	443	LYS
1	3-Q	543	GLN
1	3-Q	802	GLN
1	3-Q	1320	PRO
1	3-Q	1343	ASN
1	3-Q	1351	ASN
1	3-Q	1369	SER
4	3-R	148	TRP
4	3-R	318	ASP
4	3-R	403	ILE
4	3-R	405	ALA
4	3-R	451	GLU

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Mol	Chain	Res	Type
4	3-R	453	TYR
4	3-R	454	TYR
4	3-R	458	ASP
4	3-R	464	LYS
5	3-S	276	SER
5	3-S	327	ARG
5	3-S	335	LEU
6	3-T	426	ALA
6	3-T	466	ASP
2	3-U	24	SER
2	3-U	252	MET
2	3-U	278	LEU
2	3-U	301	LEU
2	3-U	382	ASN
2	3-U	383	THR
2	3-U	587	LEU
2	3-U	592	SER
2	3-U	603	SER
2	3-U	623	GLU
2	3-U	652	GLN
2	3-U	655	ALA
2	3-U	656	PRO
2	3-U	661	GLU
2	3-U	662	ARG
2	3-U	723	ASN
2	3-U	764	LYS
3	3-V	47	LYS
3	3-V	52	SER
3	3-V	1451	ARG
3	3-V	1637	GLN
3	3-V	1662	CYS
3	3-V	1664	ASP
1	3-W	332	ARG
1	3-W	443	LYS
1	3-W	543	GLN
1	3-W	802	GLN
1	3-W	1320	PRO
1	3-W	1343	ASN
1	3-W	1351	ASN
1	3-W	1369	SER
4	3-X	148	TRP
4	3-X	318	ASP

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Mol	Chain	Res	Type
4	3-X	403	ILE
4	3-X	405	ALA
4	3-X	451	GLU
4	3-X	453	TYR
4	3-X	454	TYR
4	3-X	458	ASP
4	3-X	464	LYS
5	3-Y	276	SER
5	3-Y	327	ARG
5	3-Y	335	LEU
6	3-Z	426	ALA
6	3-Z	466	ASP
1	4-A	332	ARG
1	4-A	443	LYS
1	4-A	543	GLN
1	4-A	802	GLN
1	4-B	332	ARG
1	4-B	443	LYS
1	4-B	543	GLN
1	4-B	802	GLN
2	4-C	24	SER
2	4-C	252	MET
2	4-C	278	LEU
2	4-C	301	LEU
2	4-C	382	ASN
2	4-C	383	THR
2	4-C	587	LEU
2	4-C	592	SER
2	4-C	603	SER
2	4-C	623	GLU
2	4-C	652	GLN
2	4-C	655	ALA
2	4-C	656	PRO
2	4-C	661	GLU
2	4-C	662	ARG
2	4-C	723	ASN
2	4-C	764	LYS
3	4-D	47	LYS
3	4-D	52	SER
3	4-D	1451	ARG
3	4-D	1637	GLN
3	4-D	1662	CYS

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Mol	Chain	Res	Type
3	4-D	1664	ASP
1	4-E	332	ARG
1	4-E	443	LYS
1	4-E	543	GLN
1	4-E	802	GLN
1	4-E	1320	PRO
1	4-E	1343	ASN
1	4-E	1351	ASN
1	4-E	1369	SER
4	4-F	148	TRP
4	4-F	318	ASP
4	4-F	403	ILE
4	4-F	405	ALA
4	4-F	451	GLU
4	4-F	453	TYR
4	4-F	454	TYR
4	4-F	458	ASP
4	4-F	464	LYS
5	4-G	276	SER
5	4-G	327	ARG
5	4-G	335	LEU
6	4-H	426	ALA
6	4-H	466	ASP
2	4-I	24	SER
2	4-I	252	MET
2	4-I	278	LEU
2	4-I	301	LEU
2	4-I	382	ASN
2	4-I	383	THR
2	4-I	587	LEU
2	4-I	592	SER
2	4-I	603	SER
2	4-I	623	GLU
2	4-I	652	GLN
2	4-I	655	ALA
2	4-I	656	PRO
2	4-I	661	GLU
2	4-I	662	ARG
2	4-I	723	ASN
2	4-I	764	LYS
3	4-J	47	LYS
3	4-J	52	SER

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Mol	Chain	Res	Type
3	4-J	1451	ARG
3	4-J	1637	GLN
3	4-J	1662	CYS
3	4-J	1664	ASP
1	4-K	332	ARG
1	4-K	443	LYS
1	4-K	543	GLN
1	4-K	802	GLN
1	4-K	1320	PRO
1	4-K	1343	ASN
1	4-K	1351	ASN
1	4-K	1369	SER
4	4-L	148	TRP
4	4-L	318	ASP
4	4-L	403	ILE
4	4-L	405	ALA
4	4-L	451	GLU
4	4-L	453	TYR
4	4-L	454	TYR
4	4-L	458	ASP
4	4-L	464	LYS
5	4-M	276	SER
5	4-M	327	ARG
5	4-M	335	LEU
6	4-N	426	ALA
6	4-N	466	ASP
2	4-O	24	SER
2	4-O	252	MET
2	4-O	278	LEU
2	4-O	301	LEU
2	4-O	382	ASN
2	4-O	383	THR
2	4-O	587	LEU
2	4-O	592	SER
2	4-O	603	SER
2	4-O	623	GLU
2	4-O	652	GLN
2	4-O	655	ALA
2	4-O	656	PRO
2	4-O	661	GLU
2	4-O	662	ARG
2	4-O	723	ASN

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Mol	Chain	Res	Type
2	4-O	764	LYS
3	4-P	47	LYS
3	4-P	52	SER
3	4-P	1451	ARG
3	4-P	1637	GLN
3	4-P	1662	CYS
3	4-P	1664	ASP
1	4-Q	332	ARG
1	4-Q	443	LYS
1	4-Q	543	GLN
1	4-Q	802	GLN
1	4-Q	1320	PRO
1	4-Q	1343	ASN
1	4-Q	1351	ASN
1	4-Q	1369	SER
4	4-R	148	TRP
4	4-R	318	ASP
4	4-R	403	ILE
4	4-R	405	ALA
4	4-R	451	GLU
4	4-R	453	TYR
4	4-R	454	TYR
4	4-R	458	ASP
4	4-R	464	LYS
5	4-S	276	SER
5	4-S	327	ARG
5	4-S	335	LEU
6	4-T	426	ALA
6	4-T	466	ASP
2	4-U	24	SER
2	4-U	252	MET
2	4-U	278	LEU
2	4-U	301	LEU
2	4-U	382	ASN
2	4-U	383	THR
2	4-U	587	LEU
2	4-U	592	SER
2	4-U	603	SER
2	4-U	623	GLU
2	4-U	652	GLN
2	4-U	655	ALA
2	4-U	656	PRO

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Mol	Chain	Res	Type
2	4-U	661	GLU
2	4-U	662	ARG
2	4-U	723	ASN
2	4-U	764	LYS
3	4-V	47	LYS
3	4-V	52	SER
3	4-V	1451	ARG
3	4-V	1637	GLN
3	4-V	1662	CYS
3	4-V	1664	ASP
1	4-W	332	ARG
1	4-W	443	LYS
1	4-W	543	GLN
1	4-W	802	GLN
1	4-W	1320	PRO
1	4-W	1343	ASN
1	4-W	1351	ASN
1	4-W	1369	SER
4	4-X	148	TRP
4	4-X	318	ASP
4	4-X	403	ILE
4	4-X	405	ALA
4	4-X	451	GLU
4	4-X	453	TYR
4	4-X	454	TYR
4	4-X	458	ASP
4	4-X	464	LYS
5	4-Y	276	SER
5	4-Y	327	ARG
5	4-Y	335	LEU
6	4-Z	426	ALA
6	4-Z	466	ASP
1	5-A	332	ARG
1	5-A	443	LYS
1	5-A	543	GLN
1	5-A	802	GLN
1	5-B	332	ARG
1	5-B	443	LYS
1	5-B	543	GLN
1	5-B	802	GLN
2	5-C	24	SER
2	5-C	252	MET

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Mol	Chain	Res	Type
2	5-C	278	LEU
2	5-C	301	LEU
2	5-C	382	ASN
2	5-C	383	THR
2	5-C	587	LEU
2	5-C	592	SER
2	5-C	603	SER
2	5-C	623	GLU
2	5-C	652	GLN
2	5-C	655	ALA
2	5-C	656	PRO
2	5-C	661	GLU
2	5-C	662	ARG
2	5-C	723	ASN
2	5-C	764	LYS
3	5-D	47	LYS
3	5-D	52	SER
3	5-D	1451	ARG
3	5-D	1637	GLN
3	5-D	1662	CYS
3	5-D	1664	ASP
1	5-E	332	ARG
1	5-E	443	LYS
1	5-E	543	GLN
1	5-E	802	GLN
1	5-E	1320	PRO
1	5-E	1343	ASN
1	5-E	1351	ASN
1	5-E	1369	SER
4	5-F	148	TRP
4	5-F	318	ASP
4	5-F	403	ILE
4	5-F	405	ALA
4	5-F	451	GLU
4	5-F	453	TYR
4	5-F	454	TYR
4	5-F	458	ASP
4	5-F	464	LYS
5	5-G	276	SER
5	5-G	327	ARG
5	5-G	335	LEU
6	5-H	426	ALA

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Mol	Chain	Res	Type
6	5-H	466	ASP
2	5-I	24	SER
2	5-I	252	MET
2	5-I	278	LEU
2	5-I	301	LEU
2	5-I	382	ASN
2	5-I	383	THR
2	5-I	587	LEU
2	5-I	592	SER
2	5-I	603	SER
2	5-I	623	GLU
2	5-I	652	GLN
2	5-I	655	ALA
2	5-I	656	PRO
2	5-I	661	GLU
2	5-I	662	ARG
2	5-I	723	ASN
2	5-I	764	LYS
3	5-J	47	LYS
3	5-J	52	SER
3	5-J	1451	ARG
3	5-J	1637	GLN
3	5-J	1662	CYS
3	5-J	1664	ASP
1	5-K	332	ARG
1	5-K	443	LYS
1	5-K	543	GLN
1	5-K	802	GLN
1	5-K	1320	PRO
1	5-K	1343	ASN
1	5-K	1351	ASN
1	5-K	1369	SER
4	5-L	148	TRP
4	5-L	318	ASP
4	5-L	403	ILE
4	5-L	405	ALA
4	5-L	451	GLU
4	5-L	453	TYR
4	5-L	454	TYR
4	5-L	458	ASP
4	5-L	464	LYS
5	5-M	276	SER

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Mol	Chain	Res	Type
5	5-M	327	ARG
5	5-M	335	LEU
6	5-N	426	ALA
6	5-N	466	ASP
2	5-O	24	SER
2	5-O	252	MET
2	5-O	278	LEU
2	5-O	301	LEU
2	5-O	382	ASN
2	5-O	383	THR
2	5-O	587	LEU
2	5-O	592	SER
2	5-O	603	SER
2	5-O	623	GLU
2	5-O	652	GLN
2	5-O	655	ALA
2	5-O	656	PRO
2	5-O	661	GLU
2	5-O	662	ARG
2	5-O	723	ASN
2	5-O	764	LYS
3	5-P	47	LYS
3	5-P	52	SER
3	5-P	1451	ARG
3	5-P	1637	GLN
3	5-P	1662	CYS
3	5-P	1664	ASP
1	5-Q	332	ARG
1	5-Q	443	LYS
1	5-Q	543	GLN
1	5-Q	802	GLN
1	5-Q	1320	PRO
1	5-Q	1343	ASN
1	5-Q	1351	ASN
1	5-Q	1369	SER
4	5-R	148	TRP
4	5-R	318	ASP
4	5-R	403	ILE
4	5-R	405	ALA
4	5-R	451	GLU
4	5-R	453	TYR
4	5-R	454	TYR

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Mol	Chain	Res	Type
4	5-R	458	ASP
4	5-R	464	LYS
5	5-S	276	SER
5	5-S	327	ARG
5	5-S	335	LEU
6	5-T	426	ALA
6	5-T	466	ASP
2	5-U	24	SER
2	5-U	252	MET
2	5-U	278	LEU
2	5-U	301	LEU
2	5-U	382	ASN
2	5-U	383	THR
2	5-U	587	LEU
2	5-U	592	SER
2	5-U	603	SER
2	5-U	623	GLU
2	5-U	652	GLN
2	5-U	655	ALA
2	5-U	656	PRO
2	5-U	661	GLU
2	5-U	662	ARG
2	5-U	723	ASN
2	5-U	764	LYS
3	5-V	47	LYS
3	5-V	52	SER
3	5-V	1451	ARG
3	5-V	1637	GLN
3	5-V	1662	CYS
3	5-V	1664	ASP
1	5-W	332	ARG
1	5-W	443	LYS
1	5-W	543	GLN
1	5-W	802	GLN
1	5-W	1320	PRO
1	5-W	1343	ASN
1	5-W	1351	ASN
1	5-W	1369	SER
4	5-X	148	TRP
4	5-X	318	ASP
4	5-X	403	ILE
4	5-X	405	ALA

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Mol	Chain	Res	Type
4	5-X	451	GLU
4	5-X	453	TYR
4	5-X	454	TYR
4	5-X	458	ASP
4	5-X	464	LYS
5	5-Y	276	SER
5	5-Y	327	ARG
5	5-Y	335	LEU
6	5-Z	426	ALA
6	5-Z	466	ASP
1	6-A	332	ARG
1	6-A	443	LYS
1	6-A	543	GLN
1	6-A	802	GLN
1	6-B	332	ARG
1	6-B	443	LYS
1	6-B	543	GLN
1	6-B	802	GLN
2	6-C	24	SER
2	6-C	252	MET
2	6-C	278	LEU
2	6-C	301	LEU
2	6-C	382	ASN
2	6-C	383	THR
2	6-C	587	LEU
2	6-C	592	SER
2	6-C	603	SER
2	6-C	623	GLU
2	6-C	652	GLN
2	6-C	655	ALA
2	6-C	656	PRO
2	6-C	661	GLU
2	6-C	662	ARG
2	6-C	723	ASN
2	6-C	764	LYS
3	6-D	47	LYS
3	6-D	52	SER
3	6-D	1451	ARG
3	6-D	1637	GLN
3	6-D	1662	CYS
3	6-D	1664	ASP
1	6-E	332	ARG

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Mol	Chain	Res	Type
1	6-E	443	LYS
1	6-E	543	GLN
1	6-E	802	GLN
1	6-E	1320	PRO
1	6-E	1343	ASN
1	6-E	1351	ASN
1	6-E	1369	SER
4	6-F	148	TRP
4	6-F	318	ASP
4	6-F	403	ILE
4	6-F	405	ALA
4	6-F	451	GLU
4	6-F	453	TYR
4	6-F	454	TYR
4	6-F	458	ASP
4	6-F	464	LYS
5	6-G	276	SER
5	6-G	327	ARG
5	6-G	335	LEU
6	6-H	426	ALA
6	6-H	466	ASP
2	6-I	24	SER
2	6-I	252	MET
2	6-I	278	LEU
2	6-I	301	LEU
2	6-I	382	ASN
2	6-I	383	THR
2	6-I	587	LEU
2	6-I	592	SER
2	6-I	603	SER
2	6-I	623	GLU
2	6-I	652	GLN
2	6-I	655	ALA
2	6-I	656	PRO
2	6-I	661	GLU
2	6-I	662	ARG
2	6-I	723	ASN
2	6-I	764	LYS
3	6-J	47	LYS
3	6-J	52	SER
3	6-J	1451	ARG
3	6-J	1637	GLN

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Mol	Chain	Res	Type
3	6-J	1662	CYS
3	6-J	1664	ASP
1	6-K	332	ARG
1	6-K	443	LYS
1	6-K	543	GLN
1	6-K	802	GLN
1	6-K	1320	PRO
1	6-K	1343	ASN
1	6-K	1351	ASN
1	6-K	1369	SER
4	6-L	148	TRP
4	6-L	318	ASP
4	6-L	403	ILE
4	6-L	405	ALA
4	6-L	451	GLU
4	6-L	453	TYR
4	6-L	454	TYR
4	6-L	458	ASP
4	6-L	464	LYS
5	6-M	276	SER
5	6-M	327	ARG
5	6-M	335	LEU
6	6-N	426	ALA
6	6-N	466	ASP
2	6-O	24	SER
2	6-O	252	MET
2	6-O	278	LEU
2	6-O	301	LEU
2	6-O	382	ASN
2	6-O	383	THR
2	6-O	587	LEU
2	6-O	592	SER
2	6-O	603	SER
2	6-O	623	GLU
2	6-O	652	GLN
2	6-O	655	ALA
2	6-O	656	PRO
2	6-O	661	GLU
2	6-O	662	ARG
2	6-O	723	ASN
2	6-O	764	LYS
3	6-P	47	LYS

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Mol	Chain	Res	Type
3	6-P	52	SER
3	6-P	1451	ARG
3	6-P	1637	GLN
3	6-P	1662	CYS
3	6-P	1664	ASP
1	6-Q	332	ARG
1	6-Q	443	LYS
1	6-Q	543	GLN
1	6-Q	802	GLN
1	6-Q	1320	PRO
1	6-Q	1343	ASN
1	6-Q	1351	ASN
1	6-Q	1369	SER
4	6-R	148	TRP
4	6-R	318	ASP
4	6-R	403	ILE
4	6-R	405	ALA
4	6-R	451	GLU
4	6-R	453	TYR
4	6-R	454	TYR
4	6-R	458	ASP
4	6-R	464	LYS
5	6-S	276	SER
5	6-S	327	ARG
5	6-S	335	LEU
6	6-T	426	ALA
6	6-T	466	ASP
2	6-U	24	SER
2	6-U	252	MET
2	6-U	278	LEU
2	6-U	301	LEU
2	6-U	382	ASN
2	6-U	383	THR
2	6-U	587	LEU
2	6-U	592	SER
2	6-U	603	SER
2	6-U	623	GLU
2	6-U	652	GLN
2	6-U	655	ALA
2	6-U	656	PRO
2	6-U	661	GLU
2	6-U	662	ARG

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Mol	Chain	Res	Type
2	6-U	723	ASN
2	6-U	764	LYS
3	6-V	47	LYS
3	6-V	52	SER
3	6-V	1451	ARG
3	6-V	1637	GLN
3	6-V	1662	CYS
3	6-V	1664	ASP
1	6-W	332	ARG
1	6-W	443	LYS
1	6-W	543	GLN
1	6-W	802	GLN
1	6-W	1320	PRO
1	6-W	1343	ASN
1	6-W	1351	ASN
1	6-W	1369	SER
4	6-X	148	TRP
4	6-X	318	ASP
4	6-X	403	ILE
4	6-X	405	ALA
4	6-X	451	GLU
4	6-X	453	TYR
4	6-X	454	TYR
4	6-X	458	ASP
4	6-X	464	LYS
5	6-Y	276	SER
5	6-Y	327	ARG
5	6-Y	335	LEU
6	6-Z	426	ALA
6	6-Z	466	ASP
1	7-A	332	ARG
1	7-A	443	LYS
1	7-A	543	GLN
1	7-A	802	GLN
1	7-B	332	ARG
1	7-B	443	LYS
1	7-B	543	GLN
1	7-B	802	GLN
2	7-C	24	SER
2	7-C	252	MET
2	7-C	278	LEU
2	7-C	301	LEU

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Mol	Chain	Res	Type
2	7-C	382	ASN
2	7-C	383	THR
2	7-C	587	LEU
2	7-C	592	SER
2	7-C	603	SER
2	7-C	623	GLU
2	7-C	652	GLN
2	7-C	655	ALA
2	7-C	656	PRO
2	7-C	661	GLU
2	7-C	662	ARG
2	7-C	723	ASN
2	7-C	764	LYS
3	7-D	47	LYS
3	7-D	52	SER
3	7-D	1451	ARG
3	7-D	1637	GLN
3	7-D	1662	CYS
3	7-D	1664	ASP
1	7-E	332	ARG
1	7-E	443	LYS
1	7-E	543	GLN
1	7-E	802	GLN
1	7-E	1320	PRO
1	7-E	1343	ASN
1	7-E	1351	ASN
1	7-E	1369	SER
4	7-F	148	TRP
4	7-F	318	ASP
4	7-F	403	ILE
4	7-F	405	ALA
4	7-F	451	GLU
4	7-F	453	TYR
4	7-F	454	TYR
4	7-F	458	ASP
4	7-F	464	LYS
5	7-G	276	SER
5	7-G	327	ARG
5	7-G	335	LEU
6	7-H	426	ALA
6	7-H	466	ASP
2	7-I	24	SER

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Mol	Chain	Res	Type
2	7-I	252	MET
2	7-I	278	LEU
2	7-I	301	LEU
2	7-I	382	ASN
2	7-I	383	THR
2	7-I	587	LEU
2	7-I	592	SER
2	7-I	603	SER
2	7-I	623	GLU
2	7-I	652	GLN
2	7-I	655	ALA
2	7-I	656	PRO
2	7-I	661	GLU
2	7-I	662	ARG
2	7-I	723	ASN
2	7-I	764	LYS
3	7-J	47	LYS
3	7-J	52	SER
3	7-J	1451	ARG
3	7-J	1637	GLN
3	7-J	1662	CYS
3	7-J	1664	ASP
1	7-K	332	ARG
1	7-K	443	LYS
1	7-K	543	GLN
1	7-K	802	GLN
1	7-K	1320	PRO
1	7-K	1343	ASN
1	7-K	1351	ASN
1	7-K	1369	SER
4	7-L	148	TRP
4	7-L	318	ASP
4	7-L	403	ILE
4	7-L	405	ALA
4	7-L	451	GLU
4	7-L	453	TYR
4	7-L	454	TYR
4	7-L	458	ASP
4	7-L	464	LYS
5	7-M	276	SER
5	7-M	327	ARG
5	7-M	335	LEU

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Mol	Chain	Res	Type
6	7-N	426	ALA
6	7-N	466	ASP
2	7-O	24	SER
2	7-O	252	MET
2	7-O	278	LEU
2	7-O	301	LEU
2	7-O	382	ASN
2	7-O	383	THR
2	7-O	587	LEU
2	7-O	592	SER
2	7-O	603	SER
2	7-O	623	GLU
2	7-O	652	GLN
2	7-O	655	ALA
2	7-O	656	PRO
2	7-O	661	GLU
2	7-O	662	ARG
2	7-O	723	ASN
2	7-O	764	LYS
3	7-P	47	LYS
3	7-P	52	SER
3	7-P	1451	ARG
3	7-P	1637	GLN
3	7-P	1662	CYS
3	7-P	1664	ASP
1	7-Q	332	ARG
1	7-Q	443	LYS
1	7-Q	543	GLN
1	7-Q	802	GLN
1	7-Q	1320	PRO
1	7-Q	1343	ASN
1	7-Q	1351	ASN
1	7-Q	1369	SER
4	7-R	148	TRP
4	7-R	318	ASP
4	7-R	403	ILE
4	7-R	405	ALA
4	7-R	451	GLU
4	7-R	453	TYR
4	7-R	454	TYR
4	7-R	458	ASP
4	7-R	464	LYS

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Mol	Chain	Res	Type
5	7-S	276	SER
5	7-S	327	ARG
5	7-S	335	LEU
6	7-T	426	ALA
6	7-T	466	ASP
2	7-U	24	SER
2	7-U	252	MET
2	7-U	278	LEU
2	7-U	301	LEU
2	7-U	382	ASN
2	7-U	383	THR
2	7-U	587	LEU
2	7-U	592	SER
2	7-U	603	SER
2	7-U	623	GLU
2	7-U	652	GLN
2	7-U	655	ALA
2	7-U	656	PRO
2	7-U	661	GLU
2	7-U	662	ARG
2	7-U	723	ASN
2	7-U	764	LYS
3	7-V	47	LYS
3	7-V	52	SER
3	7-V	1451	ARG
3	7-V	1637	GLN
3	7-V	1662	CYS
3	7-V	1664	ASP
1	7-W	332	ARG
1	7-W	443	LYS
1	7-W	543	GLN
1	7-W	802	GLN
1	7-W	1320	PRO
1	7-W	1343	ASN
1	7-W	1351	ASN
1	7-W	1369	SER
4	7-X	148	TRP
4	7-X	318	ASP
4	7-X	403	ILE
4	7-X	405	ALA
4	7-X	451	GLU
4	7-X	453	TYR

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Mol	Chain	Res	Type
4	7-X	454	TYR
4	7-X	458	ASP
4	7-X	464	LYS
5	7-Y	276	SER
5	7-Y	327	ARG
5	7-Y	335	LEU
6	7-Z	426	ALA
6	7-Z	466	ASP
1	8-A	332	ARG
1	8-A	443	LYS
1	8-A	543	GLN
1	8-A	802	GLN
1	8-B	332	ARG
1	8-B	443	LYS
1	8-B	543	GLN
1	8-B	802	GLN
2	8-C	24	SER
2	8-C	252	MET
2	8-C	278	LEU
2	8-C	301	LEU
2	8-C	382	ASN
2	8-C	383	THR
2	8-C	587	LEU
2	8-C	592	SER
2	8-C	603	SER
2	8-C	623	GLU
2	8-C	652	GLN
2	8-C	655	ALA
2	8-C	656	PRO
2	8-C	661	GLU
2	8-C	662	ARG
2	8-C	723	ASN
2	8-C	764	LYS
3	8-D	47	LYS
3	8-D	52	SER
3	8-D	1451	ARG
3	8-D	1637	GLN
3	8-D	1662	CYS
3	8-D	1664	ASP
1	8-E	332	ARG
1	8-E	443	LYS
1	8-E	543	GLN

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Mol	Chain	Res	Type
1	8-E	802	GLN
1	8-E	1320	PRO
1	8-E	1343	ASN
1	8-E	1351	ASN
1	8-E	1369	SER
4	8-F	148	TRP
4	8-F	318	ASP
4	8-F	403	ILE
4	8-F	405	ALA
4	8-F	451	GLU
4	8-F	453	TYR
4	8-F	454	TYR
4	8-F	458	ASP
4	8-F	464	LYS
5	8-G	276	SER
5	8-G	327	ARG
5	8-G	335	LEU
6	8-H	426	ALA
6	8-H	466	ASP
2	8-I	24	SER
2	8-I	252	MET
2	8-I	278	LEU
2	8-I	301	LEU
2	8-I	382	ASN
2	8-I	383	THR
2	8-I	587	LEU
2	8-I	592	SER
2	8-I	603	SER
2	8-I	623	GLU
2	8-I	652	GLN
2	8-I	655	ALA
2	8-I	656	PRO
2	8-I	661	GLU
2	8-I	662	ARG
2	8-I	723	ASN
2	8-I	764	LYS
3	8-J	47	LYS
3	8-J	52	SER
3	8-J	1451	ARG
3	8-J	1637	GLN
3	8-J	1662	CYS
3	8-J	1664	ASP

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Mol	Chain	Res	Type
1	8-K	332	ARG
1	8-K	443	LYS
1	8-K	543	GLN
1	8-K	802	GLN
1	8-K	1320	PRO
1	8-K	1343	ASN
1	8-K	1351	ASN
1	8-K	1369	SER
4	8-L	148	TRP
4	8-L	318	ASP
4	8-L	403	ILE
4	8-L	405	ALA
4	8-L	451	GLU
4	8-L	453	TYR
4	8-L	454	TYR
4	8-L	458	ASP
4	8-L	464	LYS
5	8-M	276	SER
5	8-M	327	ARG
5	8-M	335	LEU
6	8-N	426	ALA
6	8-N	466	ASP
2	8-O	24	SER
2	8-O	252	MET
2	8-O	278	LEU
2	8-O	301	LEU
2	8-O	382	ASN
2	8-O	383	THR
2	8-O	587	LEU
2	8-O	592	SER
2	8-O	603	SER
2	8-O	623	GLU
2	8-O	652	GLN
2	8-O	655	ALA
2	8-O	656	PRO
2	8-O	661	GLU
2	8-O	662	ARG
2	8-O	723	ASN
2	8-O	764	LYS
3	8-P	47	LYS
3	8-P	52	SER
3	8-P	1451	ARG

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Mol	Chain	Res	Type
3	8-P	1637	GLN
3	8-P	1662	CYS
3	8-P	1664	ASP
1	8-Q	332	ARG
1	8-Q	443	LYS
1	8-Q	543	GLN
1	8-Q	802	GLN
1	8-Q	1320	PRO
1	8-Q	1343	ASN
1	8-Q	1351	ASN
1	8-Q	1369	SER
4	8-R	148	TRP
4	8-R	318	ASP
4	8-R	403	ILE
4	8-R	405	ALA
4	8-R	451	GLU
4	8-R	453	TYR
4	8-R	454	TYR
4	8-R	458	ASP
4	8-R	464	LYS
5	8-S	276	SER
5	8-S	327	ARG
5	8-S	335	LEU
6	8-T	426	ALA
6	8-T	466	ASP
2	8-U	24	SER
2	8-U	252	MET
2	8-U	278	LEU
2	8-U	301	LEU
2	8-U	382	ASN
2	8-U	383	THR
2	8-U	587	LEU
2	8-U	592	SER
2	8-U	603	SER
2	8-U	623	GLU
2	8-U	652	GLN
2	8-U	655	ALA
2	8-U	656	PRO
2	8-U	661	GLU
2	8-U	662	ARG
2	8-U	723	ASN
2	8-U	764	LYS

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Mol	Chain	Res	Type
3	8-V	47	LYS
3	8-V	52	SER
3	8-V	1451	ARG
3	8-V	1637	GLN
3	8-V	1662	CYS
3	8-V	1664	ASP
1	8-W	332	ARG
1	8-W	443	LYS
1	8-W	543	GLN
1	8-W	802	GLN
1	8-W	1320	PRO
1	8-W	1343	ASN
1	8-W	1351	ASN
1	8-W	1369	SER
4	8-X	148	TRP
4	8-X	318	ASP
4	8-X	403	ILE
4	8-X	405	ALA
4	8-X	451	GLU
4	8-X	453	TYR
4	8-X	454	TYR
4	8-X	458	ASP
4	8-X	464	LYS
5	8-Y	276	SER
5	8-Y	327	ARG
5	8-Y	335	LEU
6	8-Z	426	ALA
6	8-Z	466	ASP
1	1-A	260	SER
1	1-A	312	MET
1	1-A	415	LYS
1	1-B	260	SER
1	1-B	312	MET
1	1-B	415	LYS
2	1-C	23	ILE
2	1-C	179	ASP
2	1-C	215	LEU
2	1-C	219	SER
2	1-C	354	GLU
2	1-C	368	GLU
2	1-C	402	ASN
2	1-C	404	SER

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Mol	Chain	Res	Type
2	1-C	559	ASP
2	1-C	602	THR
2	1-C	649	VAL
2	1-C	679	ILE
2	1-C	726	SER
2	1-C	754	ASN
3	1-D	39	LEU
3	1-D	881	GLN
1	1-E	260	SER
1	1-E	312	MET
1	1-E	415	LYS
1	1-E	961	GLY
1	1-E	1235	LEU
1	1-E	1346	ARG
4	1-F	204	SER
4	1-F	221	GLN
4	1-F	301	PRO
4	1-F	461	ARG
4	1-F	492	GLU
5	1-G	326	LEU
5	1-G	378	SER
6	1-H	411	GLU
6	1-H	494	LEU
2	1-I	23	ILE
2	1-I	179	ASP
2	1-I	215	LEU
2	1-I	219	SER
2	1-I	354	GLU
2	1-I	368	GLU
2	1-I	402	ASN
2	1-I	404	SER
2	1-I	559	ASP
2	1-I	602	THR
2	1-I	649	VAL
2	1-I	679	ILE
2	1-I	726	SER
2	1-I	754	ASN
3	1-J	39	LEU
3	1-J	881	GLN
1	1-K	260	SER
1	1-K	312	MET
1	1-K	415	LYS

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Mol	Chain	Res	Type
1	1-K	961	GLY
1	1-K	1235	LEU
1	1-K	1346	ARG
4	1-L	204	SER
4	1-L	221	GLN
4	1-L	301	PRO
4	1-L	461	ARG
4	1-L	492	GLU
5	1-M	326	LEU
5	1-M	378	SER
6	1-N	411	GLU
6	1-N	494	LEU
2	1-O	23	ILE
2	1-O	179	ASP
2	1-O	215	LEU
2	1-O	219	SER
2	1-O	354	GLU
2	1-O	368	GLU
2	1-O	402	ASN
2	1-O	404	SER
2	1-O	559	ASP
2	1-O	602	THR
2	1-O	649	VAL
2	1-O	679	ILE
2	1-O	726	SER
2	1-O	754	ASN
3	1-P	39	LEU
3	1-P	881	GLN
1	1-Q	260	SER
1	1-Q	312	MET
1	1-Q	415	LYS
1	1-Q	961	GLY
1	1-Q	1235	LEU
1	1-Q	1346	ARG
4	1-R	204	SER
4	1-R	221	GLN
4	1-R	301	PRO
4	1-R	461	ARG
4	1-R	492	GLU
5	1-S	326	LEU
5	1-S	378	SER
6	1-T	411	GLU

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Mol	Chain	Res	Type
6	1-T	494	LEU
2	1-U	23	ILE
2	1-U	179	ASP
2	1-U	215	LEU
2	1-U	219	SER
2	1-U	354	GLU
2	1-U	368	GLU
2	1-U	402	ASN
2	1-U	404	SER
2	1-U	559	ASP
2	1-U	602	THR
2	1-U	649	VAL
2	1-U	679	ILE
2	1-U	726	SER
2	1-U	754	ASN
3	1-V	39	LEU
3	1-V	881	GLN
1	1-W	260	SER
1	1-W	312	MET
1	1-W	415	LYS
1	1-W	961	GLY
1	1-W	1235	LEU
1	1-W	1346	ARG
4	1-X	204	SER
4	1-X	221	GLN
4	1-X	301	PRO
4	1-X	461	ARG
4	1-X	492	GLU
5	1-Y	326	LEU
5	1-Y	378	SER
6	1-Z	411	GLU
6	1-Z	494	LEU
1	2-A	312	MET
1	2-A	415	LYS
1	2-B	312	MET
1	2-B	415	LYS
2	2-C	23	ILE
2	2-C	179	ASP
2	2-C	215	LEU
2	2-C	219	SER
2	2-C	354	GLU
2	2-C	368	GLU

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Mol	Chain	Res	Type
2	2-C	402	ASN
2	2-C	404	SER
2	2-C	559	ASP
2	2-C	602	THR
2	2-C	649	VAL
2	2-C	679	ILE
2	2-C	726	SER
2	2-C	754	ASN
3	2-D	39	LEU
3	2-D	718	SER
1	2-E	312	MET
1	2-E	415	LYS
1	2-E	961	GLY
1	2-E	1235	LEU
1	2-E	1346	ARG
4	2-F	301	PRO
4	2-F	461	ARG
4	2-F	492	GLU
5	2-G	326	LEU
5	2-G	378	SER
6	2-H	411	GLU
6	2-H	494	LEU
2	2-I	23	ILE
2	2-I	179	ASP
2	2-I	215	LEU
2	2-I	219	SER
2	2-I	354	GLU
2	2-I	368	GLU
2	2-I	402	ASN
2	2-I	404	SER
2	2-I	559	ASP
2	2-I	602	THR
2	2-I	649	VAL
2	2-I	679	ILE
2	2-I	726	SER
2	2-I	754	ASN
3	2-J	39	LEU
3	2-J	718	SER
1	2-K	312	MET
1	2-K	415	LYS
1	2-K	961	GLY
1	2-K	1235	LEU

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Mol	Chain	Res	Type
1	2-K	1346	ARG
4	2-L	301	PRO
4	2-L	461	ARG
4	2-L	492	GLU
5	2-M	326	LEU
5	2-M	378	SER
6	2-N	411	GLU
6	2-N	494	LEU
2	2-O	23	ILE
2	2-O	179	ASP
2	2-O	215	LEU
2	2-O	219	SER
2	2-O	354	GLU
2	2-O	368	GLU
2	2-O	402	ASN
2	2-O	404	SER
2	2-O	559	ASP
2	2-O	602	THR
2	2-O	649	VAL
2	2-O	679	ILE
2	2-O	726	SER
2	2-O	754	ASN
3	2-P	39	LEU
3	2-P	718	SER
1	2-Q	312	MET
1	2-Q	415	LYS
1	2-Q	961	GLY
1	2-Q	1235	LEU
1	2-Q	1346	ARG
4	2-R	301	PRO
4	2-R	461	ARG
4	2-R	492	GLU
5	2-S	326	LEU
5	2-S	378	SER
6	2-T	411	GLU
6	2-T	494	LEU
2	2-U	23	ILE
2	2-U	179	ASP
2	2-U	215	LEU
2	2-U	219	SER
2	2-U	354	GLU
2	2-U	368	GLU

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Mol	Chain	Res	Type
2	2-U	402	ASN
2	2-U	404	SER
2	2-U	559	ASP
2	2-U	602	THR
2	2-U	649	VAL
2	2-U	679	ILE
2	2-U	726	SER
2	2-U	754	ASN
3	2-V	39	LEU
3	2-V	718	SER
1	2-W	312	MET
1	2-W	415	LYS
1	2-W	961	GLY
1	2-W	1235	LEU
1	2-W	1346	ARG
4	2-X	301	PRO
4	2-X	461	ARG
4	2-X	492	GLU
5	2-Y	326	LEU
5	2-Y	378	SER
6	2-Z	411	GLU
6	2-Z	494	LEU
1	3-A	312	MET
1	3-A	415	LYS
1	3-B	312	MET
1	3-B	415	LYS
2	3-C	23	ILE
2	3-C	179	ASP
2	3-C	215	LEU
2	3-C	219	SER
2	3-C	354	GLU
2	3-C	368	GLU
2	3-C	402	ASN
2	3-C	404	SER
2	3-C	559	ASP
2	3-C	602	THR
2	3-C	649	VAL
2	3-C	679	ILE
2	3-C	726	SER
2	3-C	754	ASN
3	3-D	39	LEU
3	3-D	718	SER

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Mol	Chain	Res	Type
1	3-E	312	MET
1	3-E	415	LYS
1	3-E	961	GLY
1	3-E	1235	LEU
1	3-E	1346	ARG
4	3-F	301	PRO
4	3-F	461	ARG
4	3-F	492	GLU
5	3-G	326	LEU
5	3-G	378	SER
6	3-H	411	GLU
6	3-H	494	LEU
2	3-I	23	ILE
2	3-I	179	ASP
2	3-I	215	LEU
2	3-I	219	SER
2	3-I	354	GLU
2	3-I	368	GLU
2	3-I	402	ASN
2	3-I	404	SER
2	3-I	559	ASP
2	3-I	602	THR
2	3-I	649	VAL
2	3-I	679	ILE
2	3-I	726	SER
2	3-I	754	ASN
3	3-J	39	LEU
3	3-J	718	SER
1	3-K	312	MET
1	3-K	415	LYS
1	3-K	961	GLY
1	3-K	1235	LEU
1	3-K	1346	ARG
4	3-L	301	PRO
4	3-L	461	ARG
4	3-L	492	GLU
5	3-M	326	LEU
5	3-M	378	SER
6	3-N	411	GLU
6	3-N	494	LEU
2	3-O	23	ILE
2	3-O	179	ASP

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Mol	Chain	Res	Type
2	3-O	215	LEU
2	3-O	219	SER
2	3-O	354	GLU
2	3-O	368	GLU
2	3-O	402	ASN
2	3-O	404	SER
2	3-O	559	ASP
2	3-O	602	THR
2	3-O	649	VAL
2	3-O	679	ILE
2	3-O	726	SER
2	3-O	754	ASN
3	3-P	39	LEU
3	3-P	718	SER
1	3-Q	312	MET
1	3-Q	415	LYS
1	3-Q	961	GLY
1	3-Q	1235	LEU
1	3-Q	1346	ARG
4	3-R	301	PRO
4	3-R	461	ARG
4	3-R	492	GLU
5	3-S	326	LEU
5	3-S	378	SER
6	3-T	411	GLU
6	3-T	494	LEU
2	3-U	23	ILE
2	3-U	179	ASP
2	3-U	215	LEU
2	3-U	219	SER
2	3-U	354	GLU
2	3-U	368	GLU
2	3-U	402	ASN
2	3-U	404	SER
2	3-U	559	ASP
2	3-U	602	THR
2	3-U	649	VAL
2	3-U	679	ILE
2	3-U	726	SER
2	3-U	754	ASN
3	3-V	39	LEU
3	3-V	718	SER

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Mol	Chain	Res	Type
1	3-W	312	MET
1	3-W	415	LYS
1	3-W	961	GLY
1	3-W	1235	LEU
1	3-W	1346	ARG
4	3-X	301	PRO
4	3-X	461	ARG
4	3-X	492	GLU
5	3-Y	326	LEU
5	3-Y	378	SER
6	3-Z	411	GLU
6	3-Z	494	LEU
1	4-A	312	MET
1	4-A	415	LYS
1	4-B	312	MET
1	4-B	415	LYS
2	4-C	23	ILE
2	4-C	179	ASP
2	4-C	215	LEU
2	4-C	219	SER
2	4-C	354	GLU
2	4-C	368	GLU
2	4-C	402	ASN
2	4-C	404	SER
2	4-C	559	ASP
2	4-C	602	THR
2	4-C	649	VAL
2	4-C	679	ILE
2	4-C	726	SER
2	4-C	754	ASN
3	4-D	39	LEU
3	4-D	718	SER
1	4-E	312	MET
1	4-E	415	LYS
1	4-E	961	GLY
1	4-E	1235	LEU
1	4-E	1346	ARG
4	4-F	301	PRO
4	4-F	461	ARG
4	4-F	492	GLU
5	4-G	326	LEU
5	4-G	378	SER

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Mol	Chain	Res	Type
6	4-H	411	GLU
6	4-H	494	LEU
2	4-I	23	ILE
2	4-I	179	ASP
2	4-I	215	LEU
2	4-I	219	SER
2	4-I	354	GLU
2	4-I	368	GLU
2	4-I	402	ASN
2	4-I	404	SER
2	4-I	559	ASP
2	4-I	602	THR
2	4-I	649	VAL
2	4-I	679	ILE
2	4-I	726	SER
2	4-I	754	ASN
3	4-J	39	LEU
3	4-J	718	SER
1	4-K	312	MET
1	4-K	415	LYS
1	4-K	961	GLY
1	4-K	1235	LEU
1	4-K	1346	ARG
4	4-L	301	PRO
4	4-L	461	ARG
4	4-L	492	GLU
5	4-M	326	LEU
5	4-M	378	SER
6	4-N	411	GLU
6	4-N	494	LEU
2	4-O	23	ILE
2	4-O	179	ASP
2	4-O	215	LEU
2	4-O	219	SER
2	4-O	354	GLU
2	4-O	368	GLU
2	4-O	402	ASN
2	4-O	404	SER
2	4-O	559	ASP
2	4-O	602	THR
2	4-O	649	VAL
2	4-O	679	ILE

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Mol	Chain	Res	Type
2	4-O	726	SER
2	4-O	754	ASN
3	4-P	39	LEU
3	4-P	718	SER
1	4-Q	312	MET
1	4-Q	415	LYS
1	4-Q	961	GLY
1	4-Q	1235	LEU
1	4-Q	1346	ARG
4	4-R	301	PRO
4	4-R	461	ARG
4	4-R	492	GLU
5	4-S	326	LEU
5	4-S	378	SER
6	4-T	411	GLU
6	4-T	494	LEU
2	4-U	23	ILE
2	4-U	179	ASP
2	4-U	215	LEU
2	4-U	219	SER
2	4-U	354	GLU
2	4-U	368	GLU
2	4-U	402	ASN
2	4-U	404	SER
2	4-U	559	ASP
2	4-U	602	THR
2	4-U	649	VAL
2	4-U	679	ILE
2	4-U	726	SER
2	4-U	754	ASN
3	4-V	39	LEU
3	4-V	718	SER
1	4-W	312	MET
1	4-W	415	LYS
1	4-W	961	GLY
1	4-W	1235	LEU
1	4-W	1346	ARG
4	4-X	301	PRO
4	4-X	461	ARG
4	4-X	492	GLU
5	4-Y	326	LEU
5	4-Y	378	SER

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Mol	Chain	Res	Type
6	4-Z	411	GLU
6	4-Z	494	LEU
1	5-A	312	MET
1	5-A	415	LYS
1	5-B	312	MET
1	5-B	415	LYS
2	5-C	23	ILE
2	5-C	179	ASP
2	5-C	215	LEU
2	5-C	219	SER
2	5-C	354	GLU
2	5-C	368	GLU
2	5-C	402	ASN
2	5-C	404	SER
2	5-C	559	ASP
2	5-C	602	THR
2	5-C	649	VAL
2	5-C	679	ILE
2	5-C	726	SER
2	5-C	754	ASN
3	5-D	39	LEU
3	5-D	718	SER
1	5-E	312	MET
1	5-E	415	LYS
1	5-E	961	GLY
1	5-E	1235	LEU
1	5-E	1346	ARG
4	5-F	301	PRO
4	5-F	461	ARG
4	5-F	492	GLU
5	5-G	326	LEU
5	5-G	378	SER
6	5-H	411	GLU
6	5-H	494	LEU
2	5-I	23	ILE
2	5-I	179	ASP
2	5-I	215	LEU
2	5-I	219	SER
2	5-I	354	GLU
2	5-I	368	GLU
2	5-I	402	ASN
2	5-I	404	SER

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Mol	Chain	Res	Type
2	5-I	559	ASP
2	5-I	602	THR
2	5-I	649	VAL
2	5-I	679	ILE
2	5-I	726	SER
2	5-I	754	ASN
3	5-J	39	LEU
3	5-J	718	SER
1	5-K	312	MET
1	5-K	415	LYS
1	5-K	961	GLY
1	5-K	1235	LEU
1	5-K	1346	ARG
4	5-L	301	PRO
4	5-L	461	ARG
4	5-L	492	GLU
5	5-M	326	LEU
5	5-M	378	SER
6	5-N	411	GLU
6	5-N	494	LEU
2	5-O	23	ILE
2	5-O	179	ASP
2	5-O	215	LEU
2	5-O	219	SER
2	5-O	354	GLU
2	5-O	368	GLU
2	5-O	402	ASN
2	5-O	404	SER
2	5-O	559	ASP
2	5-O	602	THR
2	5-O	649	VAL
2	5-O	679	ILE
2	5-O	726	SER
2	5-O	754	ASN
3	5-P	39	LEU
3	5-P	718	SER
1	5-Q	312	MET
1	5-Q	415	LYS
1	5-Q	961	GLY
1	5-Q	1235	LEU
1	5-Q	1346	ARG
4	5-R	301	PRO

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Mol	Chain	Res	Type
4	5-R	461	ARG
4	5-R	492	GLU
5	5-S	326	LEU
5	5-S	378	SER
6	5-T	411	GLU
6	5-T	494	LEU
2	5-U	23	ILE
2	5-U	179	ASP
2	5-U	215	LEU
2	5-U	219	SER
2	5-U	354	GLU
2	5-U	368	GLU
2	5-U	402	ASN
2	5-U	404	SER
2	5-U	559	ASP
2	5-U	602	THR
2	5-U	649	VAL
2	5-U	679	ILE
2	5-U	726	SER
2	5-U	754	ASN
3	5-V	39	LEU
3	5-V	718	SER
1	5-W	312	MET
1	5-W	415	LYS
1	5-W	961	GLY
1	5-W	1235	LEU
1	5-W	1346	ARG
4	5-X	301	PRO
4	5-X	461	ARG
4	5-X	492	GLU
5	5-Y	326	LEU
5	5-Y	378	SER
6	5-Z	411	GLU
6	5-Z	494	LEU
1	6-A	312	MET
1	6-A	415	LYS
1	6-B	312	MET
1	6-B	415	LYS
2	6-C	23	ILE
2	6-C	179	ASP
2	6-C	215	LEU
2	6-C	219	SER

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Mol	Chain	Res	Type
2	6-C	354	GLU
2	6-C	368	GLU
2	6-C	402	ASN
2	6-C	404	SER
2	6-C	559	ASP
2	6-C	602	THR
2	6-C	649	VAL
2	6-C	679	ILE
2	6-C	726	SER
2	6-C	754	ASN
3	6-D	39	LEU
3	6-D	718	SER
1	6-E	312	MET
1	6-E	415	LYS
1	6-E	961	GLY
1	6-E	1235	LEU
1	6-E	1346	ARG
4	6-F	301	PRO
4	6-F	461	ARG
4	6-F	492	GLU
5	6-G	326	LEU
5	6-G	378	SER
6	6-H	411	GLU
6	6-H	494	LEU
2	6-I	23	ILE
2	6-I	179	ASP
2	6-I	215	LEU
2	6-I	219	SER
2	6-I	354	GLU
2	6-I	368	GLU
2	6-I	402	ASN
2	6-I	404	SER
2	6-I	559	ASP
2	6-I	602	THR
2	6-I	649	VAL
2	6-I	679	ILE
2	6-I	726	SER
2	6-I	754	ASN
3	6-J	39	LEU
3	6-J	718	SER
1	6-K	312	MET
1	6-K	415	LYS

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Mol	Chain	Res	Type
1	6-K	961	GLY
1	6-K	1235	LEU
1	6-K	1346	ARG
4	6-L	301	PRO
4	6-L	461	ARG
4	6-L	492	GLU
5	6-M	326	LEU
5	6-M	378	SER
6	6-N	411	GLU
6	6-N	494	LEU
2	6-O	23	ILE
2	6-O	179	ASP
2	6-O	215	LEU
2	6-O	219	SER
2	6-O	354	GLU
2	6-O	368	GLU
2	6-O	402	ASN
2	6-O	404	SER
2	6-O	559	ASP
2	6-O	602	THR
2	6-O	649	VAL
2	6-O	679	ILE
2	6-O	726	SER
2	6-O	754	ASN
3	6-P	39	LEU
3	6-P	718	SER
1	6-Q	312	MET
1	6-Q	415	LYS
1	6-Q	961	GLY
1	6-Q	1235	LEU
1	6-Q	1346	ARG
4	6-R	301	PRO
4	6-R	461	ARG
4	6-R	492	GLU
5	6-S	326	LEU
5	6-S	378	SER
6	6-T	411	GLU
6	6-T	494	LEU
2	6-U	23	ILE
2	6-U	179	ASP
2	6-U	215	LEU
2	6-U	219	SER

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Mol	Chain	Res	Type
2	6-U	354	GLU
2	6-U	368	GLU
2	6-U	402	ASN
2	6-U	404	SER
2	6-U	559	ASP
2	6-U	602	THR
2	6-U	649	VAL
2	6-U	679	ILE
2	6-U	726	SER
2	6-U	754	ASN
3	6-V	39	LEU
3	6-V	718	SER
1	6-W	312	MET
1	6-W	415	LYS
1	6-W	961	GLY
1	6-W	1235	LEU
1	6-W	1346	ARG
4	6-X	301	PRO
4	6-X	461	ARG
4	6-X	492	GLU
5	6-Y	326	LEU
5	6-Y	378	SER
6	6-Z	411	GLU
6	6-Z	494	LEU
1	7-A	312	MET
1	7-A	415	LYS
1	7-B	312	MET
1	7-B	415	LYS
2	7-C	23	ILE
2	7-C	179	ASP
2	7-C	215	LEU
2	7-C	219	SER
2	7-C	354	GLU
2	7-C	368	GLU
2	7-C	402	ASN
2	7-C	404	SER
2	7-C	559	ASP
2	7-C	602	THR
2	7-C	649	VAL
2	7-C	679	ILE
2	7-C	726	SER
2	7-C	754	ASN

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Mol	Chain	Res	Type
3	7-D	39	LEU
3	7-D	718	SER
1	7-E	312	MET
1	7-E	415	LYS
1	7-E	961	GLY
1	7-E	1235	LEU
1	7-E	1346	ARG
4	7-F	301	PRO
4	7-F	461	ARG
4	7-F	492	GLU
5	7-G	326	LEU
5	7-G	378	SER
6	7-H	411	GLU
6	7-H	494	LEU
2	7-I	23	ILE
2	7-I	179	ASP
2	7-I	215	LEU
2	7-I	219	SER
2	7-I	354	GLU
2	7-I	368	GLU
2	7-I	402	ASN
2	7-I	404	SER
2	7-I	559	ASP
2	7-I	602	THR
2	7-I	649	VAL
2	7-I	679	ILE
2	7-I	726	SER
2	7-I	754	ASN
3	7-J	39	LEU
3	7-J	718	SER
1	7-K	312	MET
1	7-K	415	LYS
1	7-K	961	GLY
1	7-K	1235	LEU
1	7-K	1346	ARG
4	7-L	301	PRO
4	7-L	461	ARG
4	7-L	492	GLU
5	7-M	326	LEU
5	7-M	378	SER
6	7-N	411	GLU
6	7-N	494	LEU

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Mol	Chain	Res	Type
2	7-O	23	ILE
2	7-O	179	ASP
2	7-O	215	LEU
2	7-O	219	SER
2	7-O	354	GLU
2	7-O	368	GLU
2	7-O	402	ASN
2	7-O	404	SER
2	7-O	559	ASP
2	7-O	602	THR
2	7-O	649	VAL
2	7-O	679	ILE
2	7-O	726	SER
2	7-O	754	ASN
3	7-P	39	LEU
3	7-P	718	SER
1	7-Q	312	MET
1	7-Q	415	LYS
1	7-Q	961	GLY
1	7-Q	1235	LEU
1	7-Q	1346	ARG
4	7-R	301	PRO
4	7-R	461	ARG
4	7-R	492	GLU
5	7-S	326	LEU
5	7-S	378	SER
6	7-T	411	GLU
6	7-T	494	LEU
2	7-U	23	ILE
2	7-U	179	ASP
2	7-U	215	LEU
2	7-U	219	SER
2	7-U	354	GLU
2	7-U	368	GLU
2	7-U	402	ASN
2	7-U	404	SER
2	7-U	559	ASP
2	7-U	602	THR
2	7-U	649	VAL
2	7-U	679	ILE
2	7-U	726	SER
2	7-U	754	ASN

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Mol	Chain	Res	Type
3	7-V	39	LEU
3	7-V	718	SER
1	7-W	312	MET
1	7-W	415	LYS
1	7-W	961	GLY
1	7-W	1235	LEU
1	7-W	1346	ARG
4	7-X	301	PRO
4	7-X	461	ARG
4	7-X	492	GLU
5	7-Y	326	LEU
5	7-Y	378	SER
6	7-Z	411	GLU
6	7-Z	494	LEU
1	8-A	312	MET
1	8-A	415	LYS
1	8-B	312	MET
1	8-B	415	LYS
2	8-C	23	ILE
2	8-C	179	ASP
2	8-C	215	LEU
2	8-C	219	SER
2	8-C	354	GLU
2	8-C	368	GLU
2	8-C	402	ASN
2	8-C	404	SER
2	8-C	559	ASP
2	8-C	602	THR
2	8-C	649	VAL
2	8-C	679	ILE
2	8-C	726	SER
2	8-C	754	ASN
3	8-D	39	LEU
3	8-D	718	SER
1	8-E	312	MET
1	8-E	415	LYS
1	8-E	961	GLY
1	8-E	1235	LEU
1	8-E	1346	ARG
4	8-F	301	PRO
4	8-F	461	ARG
4	8-F	492	GLU

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Mol	Chain	Res	Type
5	8-G	326	LEU
5	8-G	378	SER
6	8-H	411	GLU
6	8-H	494	LEU
2	8-I	23	ILE
2	8-I	179	ASP
2	8-I	215	LEU
2	8-I	219	SER
2	8-I	354	GLU
2	8-I	368	GLU
2	8-I	402	ASN
2	8-I	404	SER
2	8-I	559	ASP
2	8-I	602	THR
2	8-I	649	VAL
2	8-I	679	ILE
2	8-I	726	SER
2	8-I	754	ASN
3	8-J	39	LEU
3	8-J	718	SER
1	8-K	312	MET
1	8-K	415	LYS
1	8-K	961	GLY
1	8-K	1235	LEU
1	8-K	1346	ARG
4	8-L	301	PRO
4	8-L	461	ARG
4	8-L	492	GLU
5	8-M	326	LEU
5	8-M	378	SER
6	8-N	411	GLU
6	8-N	494	LEU
2	8-O	23	ILE
2	8-O	179	ASP
2	8-O	215	LEU
2	8-O	219	SER
2	8-O	354	GLU
2	8-O	368	GLU
2	8-O	402	ASN
2	8-O	404	SER
2	8-O	559	ASP
2	8-O	602	THR

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Mol	Chain	Res	Type
2	8-O	649	VAL
2	8-O	679	ILE
2	8-O	726	SER
2	8-O	754	ASN
3	8-P	39	LEU
3	8-P	718	SER
1	8-Q	312	MET
1	8-Q	415	LYS
1	8-Q	961	GLY
1	8-Q	1235	LEU
1	8-Q	1346	ARG
4	8-R	301	PRO
4	8-R	461	ARG
4	8-R	492	GLU
5	8-S	326	LEU
5	8-S	378	SER
6	8-T	411	GLU
6	8-T	494	LEU
2	8-U	23	ILE
2	8-U	179	ASP
2	8-U	215	LEU
2	8-U	219	SER
2	8-U	354	GLU
2	8-U	368	GLU
2	8-U	402	ASN
2	8-U	404	SER
2	8-U	559	ASP
2	8-U	602	THR
2	8-U	649	VAL
2	8-U	679	ILE
2	8-U	726	SER
2	8-U	754	ASN
3	8-V	39	LEU
3	8-V	718	SER
1	8-W	312	MET
1	8-W	415	LYS
1	8-W	961	GLY
1	8-W	1235	LEU
1	8-W	1346	ARG
4	8-X	301	PRO
4	8-X	461	ARG
4	8-X	492	GLU

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Mol	Chain	Res	Type
5	8-Y	326	LEU
5	8-Y	378	SER
6	8-Z	411	GLU
6	8-Z	494	LEU
1	1-A	204	PRO
1	1-B	204	PRO
2	1-C	308	LEU
2	1-C	482	MET
2	1-C	734	PHE
3	1-D	437	ARG
1	1-E	204	PRO
1	1-E	1365	GLN
4	1-F	299	ASN
6	1-H	465	ALA
2	1-I	308	LEU
2	1-I	482	MET
2	1-I	734	PHE
3	1-J	437	ARG
1	1-K	204	PRO
1	1-K	1365	GLN
4	1-L	299	ASN
6	1-N	465	ALA
2	1-O	308	LEU
2	1-O	482	MET
2	1-O	734	PHE
3	1-P	437	ARG
1	1-Q	204	PRO
1	1-Q	1365	GLN
4	1-R	299	ASN
6	1-T	465	ALA
2	1-U	308	LEU
2	1-U	482	MET
2	1-U	734	PHE
3	1-V	437	ARG
1	1-W	204	PRO
1	1-W	1365	GLN
4	1-X	299	ASN
6	1-Z	465	ALA
1	2-A	204	PRO
1	2-B	204	PRO
2	2-C	308	LEU
2	2-C	482	MET

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Mol	Chain	Res	Type
2	2-C	734	PHE
3	2-D	775	ASP
1	2-E	204	PRO
1	2-E	1365	GLN
4	2-F	299	ASN
6	2-H	465	ALA
2	2-I	308	LEU
2	2-I	482	MET
2	2-I	734	PHE
3	2-J	775	ASP
1	2-K	204	PRO
1	2-K	1365	GLN
4	2-L	299	ASN
6	2-N	465	ALA
2	2-O	308	LEU
2	2-O	482	MET
2	2-O	734	PHE
3	2-P	775	ASP
1	2-Q	204	PRO
1	2-Q	1365	GLN
4	2-R	299	ASN
6	2-T	465	ALA
2	2-U	308	LEU
2	2-U	482	MET
2	2-U	734	PHE
3	2-V	775	ASP
1	2-W	204	PRO
1	2-W	1365	GLN
4	2-X	299	ASN
6	2-Z	465	ALA
1	3-A	204	PRO
1	3-B	204	PRO
2	3-C	308	LEU
2	3-C	482	MET
2	3-C	734	PHE
3	3-D	775	ASP
1	3-E	204	PRO
1	3-E	1365	GLN
4	3-F	299	ASN
6	3-H	465	ALA
2	3-I	308	LEU
2	3-I	482	MET

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Mol	Chain	Res	Type
2	3-I	734	PHE
3	3-J	775	ASP
1	3-K	204	PRO
1	3-K	1365	GLN
4	3-L	299	ASN
6	3-N	465	ALA
2	3-O	308	LEU
2	3-O	482	MET
2	3-O	734	PHE
3	3-P	775	ASP
1	3-Q	204	PRO
1	3-Q	1365	GLN
4	3-R	299	ASN
6	3-T	465	ALA
2	3-U	308	LEU
2	3-U	482	MET
2	3-U	734	PHE
3	3-V	775	ASP
1	3-W	204	PRO
1	3-W	1365	GLN
4	3-X	299	ASN
6	3-Z	465	ALA
1	4-A	204	PRO
1	4-B	204	PRO
2	4-C	308	LEU
2	4-C	482	MET
2	4-C	734	PHE
3	4-D	775	ASP
1	4-E	204	PRO
1	4-E	1365	GLN
4	4-F	299	ASN
4	4-F	459	LEU
6	4-H	465	ALA
2	4-I	308	LEU
2	4-I	482	MET
2	4-I	734	PHE
3	4-J	775	ASP
1	4-K	204	PRO
1	4-K	1365	GLN
4	4-L	299	ASN
6	4-N	465	ALA
2	4-O	308	LEU

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Mol	Chain	Res	Type
2	4-O	482	MET
2	4-O	734	PHE
3	4-P	775	ASP
1	4-Q	204	PRO
1	4-Q	1365	GLN
4	4-R	299	ASN
6	4-T	465	ALA
2	4-U	308	LEU
2	4-U	482	MET
2	4-U	734	PHE
3	4-V	775	ASP
1	4-W	204	PRO
1	4-W	1365	GLN
4	4-X	299	ASN
6	4-Z	465	ALA
1	5-A	204	PRO
1	5-B	204	PRO
2	5-C	308	LEU
2	5-C	482	MET
2	5-C	734	PHE
3	5-D	775	ASP
1	5-E	204	PRO
1	5-E	1365	GLN
4	5-F	299	ASN
4	5-F	459	LEU
6	5-H	465	ALA
2	5-I	308	LEU
2	5-I	482	MET
2	5-I	734	PHE
3	5-J	775	ASP
1	5-K	204	PRO
1	5-K	1365	GLN
4	5-L	299	ASN
6	5-N	465	ALA
2	5-O	308	LEU
2	5-O	482	MET
2	5-O	734	PHE
3	5-P	775	ASP
1	5-Q	204	PRO
1	5-Q	1365	GLN
4	5-R	299	ASN
6	5-T	465	ALA

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Mol	Chain	Res	Type
2	5-U	308	LEU
2	5-U	482	MET
2	5-U	734	PHE
3	5-V	775	ASP
1	5-W	204	PRO
1	5-W	1365	GLN
4	5-X	299	ASN
6	5-Z	465	ALA
1	6-A	204	PRO
1	6-B	204	PRO
2	6-C	308	LEU
2	6-C	482	MET
2	6-C	734	PHE
3	6-D	775	ASP
1	6-E	204	PRO
1	6-E	1365	GLN
4	6-F	299	ASN
4	6-F	459	LEU
6	6-H	465	ALA
2	6-I	308	LEU
2	6-I	482	MET
2	6-I	734	PHE
3	6-J	775	ASP
1	6-K	204	PRO
1	6-K	1365	GLN
4	6-L	299	ASN
6	6-N	465	ALA
2	6-O	308	LEU
2	6-O	482	MET
2	6-O	734	PHE
3	6-P	775	ASP
1	6-Q	204	PRO
1	6-Q	1365	GLN
4	6-R	299	ASN
6	6-T	465	ALA
2	6-U	308	LEU
2	6-U	482	MET
2	6-U	734	PHE
3	6-V	775	ASP
1	6-W	204	PRO
1	6-W	1365	GLN
4	6-X	299	ASN

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Mol	Chain	Res	Type
6	6-Z	465	ALA
1	7-A	204	PRO
1	7-B	204	PRO
2	7-C	308	LEU
2	7-C	482	MET
2	7-C	734	PHE
3	7-D	775	ASP
1	7-E	204	PRO
1	7-E	1365	GLN
4	7-F	299	ASN
4	7-F	459	LEU
6	7-H	465	ALA
2	7-I	308	LEU
2	7-I	482	MET
2	7-I	734	PHE
3	7-J	775	ASP
1	7-K	204	PRO
1	7-K	1365	GLN
4	7-L	299	ASN
6	7-N	465	ALA
2	7-O	308	LEU
2	7-O	482	MET
2	7-O	734	PHE
3	7-P	775	ASP
1	7-Q	204	PRO
1	7-Q	1365	GLN
4	7-R	299	ASN
6	7-T	465	ALA
2	7-U	308	LEU
2	7-U	482	MET
2	7-U	734	PHE
3	7-V	775	ASP
1	7-W	204	PRO
1	7-W	1365	GLN
4	7-X	299	ASN
6	7-Z	465	ALA
1	8-A	204	PRO
1	8-B	204	PRO
2	8-C	308	LEU
2	8-C	482	MET
2	8-C	734	PHE
3	8-D	775	ASP

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Mol	Chain	Res	Type
1	8-E	204	PRO
1	8-E	1365	GLN
4	8-F	299	ASN
4	8-F	459	LEU
6	8-H	465	ALA
2	8-I	308	LEU
2	8-I	482	MET
2	8-I	734	PHE
3	8-J	775	ASP
1	8-K	204	PRO
1	8-K	1365	GLN
4	8-L	299	ASN
6	8-N	465	ALA
2	8-O	308	LEU
2	8-O	482	MET
2	8-O	734	PHE
3	8-P	775	ASP
1	8-Q	204	PRO
1	8-Q	1365	GLN
4	8-R	299	ASN
6	8-T	465	ALA
2	8-U	308	LEU
2	8-U	482	MET
2	8-U	734	PHE
3	8-V	775	ASP
1	8-W	204	PRO
1	8-W	1365	GLN
4	8-X	299	ASN
6	8-Z	465	ALA
1	1-A	40	TYR
1	1-B	40	TYR
2	1-C	446	GLU
2	1-C	561	GLN
3	1-D	637	SER
3	1-D	1450	GLU
1	1-E	40	TYR
4	1-F	206	GLN
4	1-F	234	PRO
4	1-F	450	GLU
4	1-F	459	LEU
2	1-I	446	GLU
2	1-I	561	GLN

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Mol	Chain	Res	Type
3	1-J	637	SER
3	1-J	1450	GLU
1	1-K	40	TYR
4	1-L	206	GLN
4	1-L	234	PRO
4	1-L	450	GLU
4	1-L	459	LEU
2	1-O	446	GLU
2	1-O	561	GLN
3	1-P	637	SER
3	1-P	1450	GLU
1	1-Q	40	TYR
4	1-R	206	GLN
4	1-R	234	PRO
4	1-R	450	GLU
4	1-R	459	LEU
2	1-U	446	GLU
2	1-U	561	GLN
3	1-V	637	SER
3	1-V	1450	GLU
1	1-W	40	TYR
4	1-X	234	PRO
4	1-X	450	GLU
4	1-X	459	LEU
6	1-Z	497	ARG
1	2-A	40	TYR
1	2-B	40	TYR
2	2-C	446	GLU
2	2-C	561	GLN
3	2-D	58	PRO
3	2-D	536	VAL
3	2-D	1450	GLU
1	2-E	40	TYR
4	2-F	234	PRO
4	2-F	450	GLU
4	2-F	459	LEU
6	2-H	497	ARG
2	2-I	446	GLU
2	2-I	561	GLN
3	2-J	58	PRO
3	2-J	536	VAL
3	2-J	1450	GLU

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Mol	Chain	Res	Type
1	2-K	40	TYR
4	2-L	234	PRO
4	2-L	450	GLU
4	2-L	459	LEU
2	2-O	446	GLU
2	2-O	561	GLN
3	2-P	58	PRO
3	2-P	536	VAL
3	2-P	1450	GLU
1	2-Q	40	TYR
4	2-R	234	PRO
4	2-R	450	GLU
4	2-R	459	LEU
2	2-U	446	GLU
2	2-U	561	GLN
3	2-V	58	PRO
3	2-V	536	VAL
3	2-V	1450	GLU
1	2-W	40	TYR
4	2-X	234	PRO
4	2-X	450	GLU
4	2-X	459	LEU
1	3-A	40	TYR
1	3-B	40	TYR
2	3-C	446	GLU
2	3-C	561	GLN
3	3-D	58	PRO
3	3-D	536	VAL
3	3-D	1450	GLU
1	3-E	40	TYR
4	3-F	234	PRO
4	3-F	450	GLU
4	3-F	459	LEU
6	3-H	497	ARG
2	3-I	446	GLU
2	3-I	561	GLN
3	3-J	58	PRO
3	3-J	536	VAL
3	3-J	1450	GLU
1	3-K	40	TYR
4	3-L	234	PRO
4	3-L	450	GLU

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Mol	Chain	Res	Type
4	3-L	459	LEU
2	3-O	446	GLU
2	3-O	561	GLN
3	3-P	58	PRO
3	3-P	536	VAL
3	3-P	1450	GLU
1	3-Q	40	TYR
4	3-R	234	PRO
4	3-R	450	GLU
4	3-R	459	LEU
2	3-U	446	GLU
2	3-U	561	GLN
3	3-V	58	PRO
3	3-V	536	VAL
3	3-V	1450	GLU
1	3-W	40	TYR
4	3-X	234	PRO
4	3-X	450	GLU
4	3-X	459	LEU
6	3-Z	497	ARG
1	4-A	40	TYR
1	4-B	40	TYR
2	4-C	446	GLU
2	4-C	561	GLN
3	4-D	58	PRO
3	4-D	536	VAL
3	4-D	1450	GLU
1	4-E	40	TYR
4	4-F	234	PRO
4	4-F	450	GLU
2	4-I	446	GLU
2	4-I	561	GLN
3	4-J	58	PRO
3	4-J	536	VAL
3	4-J	1450	GLU
1	4-K	40	TYR
4	4-L	234	PRO
4	4-L	450	GLU
4	4-L	459	LEU
2	4-O	446	GLU
2	4-O	561	GLN
3	4-P	58	PRO

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Mol	Chain	Res	Type
3	4-P	536	VAL
3	4-P	1450	GLU
1	4-Q	40	TYR
4	4-R	234	PRO
4	4-R	450	GLU
4	4-R	459	LEU
2	4-U	446	GLU
2	4-U	561	GLN
3	4-V	58	PRO
3	4-V	536	VAL
3	4-V	1450	GLU
1	4-W	40	TYR
4	4-X	234	PRO
4	4-X	450	GLU
4	4-X	459	LEU
1	5-A	40	TYR
1	5-B	40	TYR
2	5-C	446	GLU
2	5-C	561	GLN
3	5-D	58	PRO
3	5-D	536	VAL
3	5-D	1450	GLU
1	5-E	40	TYR
4	5-F	234	PRO
4	5-F	450	GLU
2	5-I	446	GLU
2	5-I	561	GLN
3	5-J	58	PRO
3	5-J	536	VAL
3	5-J	1450	GLU
1	5-K	40	TYR
4	5-L	234	PRO
4	5-L	450	GLU
4	5-L	459	LEU
2	5-O	446	GLU
2	5-O	561	GLN
3	5-P	58	PRO
3	5-P	536	VAL
3	5-P	1450	GLU
1	5-Q	40	TYR
4	5-R	234	PRO
4	5-R	450	GLU

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Mol	Chain	Res	Type
4	5-R	459	LEU
2	5-U	446	GLU
2	5-U	561	GLN
3	5-V	58	PRO
3	5-V	536	VAL
3	5-V	1450	GLU
1	5-W	40	TYR
4	5-X	234	PRO
4	5-X	450	GLU
4	5-X	459	LEU
1	6-A	40	TYR
1	6-B	40	TYR
2	6-C	446	GLU
2	6-C	561	GLN
3	6-D	58	PRO
3	6-D	536	VAL
3	6-D	1450	GLU
1	6-E	40	TYR
4	6-F	234	PRO
4	6-F	450	GLU
2	6-I	446	GLU
2	6-I	561	GLN
3	6-J	58	PRO
3	6-J	536	VAL
3	6-J	1450	GLU
1	6-K	40	TYR
4	6-L	234	PRO
4	6-L	450	GLU
4	6-L	459	LEU
2	6-O	446	GLU
2	6-O	561	GLN
3	6-P	58	PRO
3	6-P	536	VAL
3	6-P	1450	GLU
1	6-Q	40	TYR
4	6-R	234	PRO
4	6-R	450	GLU
4	6-R	459	LEU
2	6-U	446	GLU
2	6-U	561	GLN
3	6-V	58	PRO
3	6-V	536	VAL

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Mol	Chain	Res	Type
3	6-V	1450	GLU
1	6-W	40	TYR
4	6-X	234	PRO
4	6-X	450	GLU
4	6-X	459	LEU
1	7-A	40	TYR
1	7-B	40	TYR
2	7-C	446	GLU
2	7-C	561	GLN
3	7-D	58	PRO
3	7-D	536	VAL
3	7-D	1450	GLU
1	7-E	40	TYR
4	7-F	234	PRO
4	7-F	450	GLU
2	7-I	446	GLU
2	7-I	561	GLN
3	7-J	58	PRO
3	7-J	536	VAL
3	7-J	1450	GLU
1	7-K	40	TYR
4	7-L	234	PRO
4	7-L	450	GLU
4	7-L	459	LEU
2	7-O	446	GLU
2	7-O	561	GLN
3	7-P	58	PRO
3	7-P	536	VAL
3	7-P	1450	GLU
1	7-Q	40	TYR
4	7-R	234	PRO
4	7-R	450	GLU
4	7-R	459	LEU
2	7-U	446	GLU
2	7-U	561	GLN
3	7-V	58	PRO
3	7-V	536	VAL
3	7-V	1450	GLU
1	7-W	40	TYR
4	7-X	234	PRO
4	7-X	450	GLU
4	7-X	459	LEU

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Mol	Chain	Res	Type
1	8-A	40	TYR
1	8-B	40	TYR
2	8-C	446	GLU
2	8-C	561	GLN
3	8-D	58	PRO
3	8-D	536	VAL
3	8-D	1450	GLU
1	8-E	40	TYR
4	8-F	234	PRO
4	8-F	450	GLU
2	8-I	446	GLU
2	8-I	561	GLN
3	8-J	58	PRO
3	8-J	536	VAL
3	8-J	1450	GLU
1	8-K	40	TYR
4	8-L	234	PRO
4	8-L	450	GLU
4	8-L	459	LEU
2	8-O	446	GLU
2	8-O	561	GLN
3	8-P	58	PRO
3	8-P	536	VAL
3	8-P	1450	GLU
1	8-Q	40	TYR
4	8-R	234	PRO
4	8-R	450	GLU
4	8-R	459	LEU
2	8-U	446	GLU
2	8-U	561	GLN
3	8-V	58	PRO
3	8-V	536	VAL
3	8-V	1450	GLU
1	8-W	40	TYR
4	8-X	234	PRO
4	8-X	450	GLU
4	8-X	459	LEU
6	8-Z	497	ARG
1	1-A	278	PRO
1	1-B	278	PRO
2	1-C	460	PHE
2	1-C	800	PRO

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Mol	Chain	Res	Type
3	1-D	58	PRO
3	1-D	536	VAL
3	1-D	659	ILE
3	1-D	1519	SER
1	1-E	278	PRO
1	1-E	910	GLN
4	1-F	145	GLN
6	1-H	464	PRO
6	1-H	497	ARG
2	1-I	460	PHE
2	1-I	800	PRO
3	1-J	58	PRO
3	1-J	536	VAL
3	1-J	659	ILE
3	1-J	1519	SER
1	1-K	278	PRO
1	1-K	910	GLN
6	1-N	464	PRO
6	1-N	497	ARG
2	1-O	460	PHE
2	1-O	800	PRO
3	1-P	58	PRO
3	1-P	536	VAL
3	1-P	659	ILE
3	1-P	1519	SER
1	1-Q	278	PRO
1	1-Q	910	GLN
6	1-T	464	PRO
6	1-T	497	ARG
2	1-U	460	PHE
2	1-U	800	PRO
3	1-V	58	PRO
3	1-V	536	VAL
3	1-V	659	ILE
3	1-V	1519	SER
1	1-W	278	PRO
1	1-W	910	GLN
4	1-X	206	GLN
6	1-Z	464	PRO
1	2-A	278	PRO
1	2-B	278	PRO
2	2-C	460	PHE

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Mol	Chain	Res	Type
2	2-C	800	PRO
3	2-D	319	LEU
3	2-D	1519	SER
1	2-E	278	PRO
1	2-E	910	GLN
6	2-H	464	PRO
2	2-I	460	PHE
2	2-I	800	PRO
3	2-J	319	LEU
3	2-J	1519	SER
1	2-K	278	PRO
1	2-K	910	GLN
6	2-N	464	PRO
6	2-N	497	ARG
2	2-O	460	PHE
2	2-O	800	PRO
3	2-P	319	LEU
3	2-P	1519	SER
1	2-Q	278	PRO
1	2-Q	910	GLN
6	2-T	464	PRO
6	2-T	497	ARG
2	2-U	460	PHE
2	2-U	800	PRO
3	2-V	319	LEU
3	2-V	1519	SER
1	2-W	278	PRO
1	2-W	910	GLN
4	2-X	145	GLN
6	2-Z	464	PRO
6	2-Z	497	ARG
1	3-A	278	PRO
1	3-B	278	PRO
2	3-C	460	PHE
2	3-C	800	PRO
3	3-D	319	LEU
3	3-D	1519	SER
1	3-E	278	PRO
1	3-E	910	GLN
6	3-H	464	PRO
2	3-I	460	PHE
2	3-I	800	PRO

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Mol	Chain	Res	Type
3	3-J	319	LEU
3	3-J	1519	SER
1	3-K	278	PRO
1	3-K	910	GLN
6	3-N	464	PRO
6	3-N	497	ARG
2	3-O	460	PHE
2	3-O	800	PRO
3	3-P	319	LEU
3	3-P	1519	SER
1	3-Q	278	PRO
1	3-Q	910	GLN
6	3-T	464	PRO
6	3-T	497	ARG
2	3-U	460	PHE
2	3-U	800	PRO
3	3-V	319	LEU
3	3-V	1519	SER
1	3-W	278	PRO
1	3-W	910	GLN
6	3-Z	464	PRO
1	4-A	278	PRO
1	4-B	278	PRO
2	4-C	460	PHE
2	4-C	800	PRO
3	4-D	319	LEU
3	4-D	1519	SER
1	4-E	278	PRO
1	4-E	910	GLN
6	4-H	464	PRO
6	4-H	497	ARG
2	4-I	460	PHE
2	4-I	800	PRO
3	4-J	319	LEU
3	4-J	1519	SER
1	4-K	278	PRO
1	4-K	910	GLN
6	4-N	464	PRO
6	4-N	497	ARG
2	4-O	460	PHE
2	4-O	800	PRO
3	4-P	319	LEU

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Mol	Chain	Res	Type
3	4-P	1519	SER
1	4-Q	278	PRO
1	4-Q	910	GLN
6	4-T	464	PRO
6	4-T	497	ARG
2	4-U	460	PHE
2	4-U	800	PRO
3	4-V	319	LEU
3	4-V	1519	SER
1	4-W	278	PRO
1	4-W	910	GLN
4	4-X	145	GLN
6	4-Z	464	PRO
6	4-Z	497	ARG
1	5-A	278	PRO
1	5-B	278	PRO
2	5-C	460	PHE
2	5-C	800	PRO
3	5-D	319	LEU
3	5-D	1519	SER
1	5-E	278	PRO
1	5-E	910	GLN
6	5-H	464	PRO
6	5-H	497	ARG
2	5-I	460	PHE
2	5-I	800	PRO
3	5-J	319	LEU
3	5-J	1519	SER
1	5-K	278	PRO
1	5-K	910	GLN
6	5-N	464	PRO
6	5-N	497	ARG
2	5-O	460	PHE
2	5-O	800	PRO
3	5-P	319	LEU
3	5-P	1519	SER
1	5-Q	278	PRO
1	5-Q	910	GLN
6	5-T	464	PRO
6	5-T	497	ARG
2	5-U	460	PHE
2	5-U	800	PRO

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Mol	Chain	Res	Type
3	5-V	319	LEU
3	5-V	1519	SER
1	5-W	278	PRO
1	5-W	910	GLN
4	5-X	145	GLN
6	5-Z	464	PRO
6	5-Z	497	ARG
1	6-A	278	PRO
1	6-B	278	PRO
2	6-C	460	PHE
2	6-C	800	PRO
3	6-D	319	LEU
3	6-D	1519	SER
1	6-E	278	PRO
1	6-E	910	GLN
6	6-H	464	PRO
6	6-H	497	ARG
2	6-I	460	PHE
2	6-I	800	PRO
3	6-J	319	LEU
3	6-J	1519	SER
1	6-K	278	PRO
1	6-K	910	GLN
6	6-N	464	PRO
6	6-N	497	ARG
2	6-O	460	PHE
2	6-O	800	PRO
3	6-P	319	LEU
3	6-P	1519	SER
1	6-Q	278	PRO
1	6-Q	910	GLN
6	6-T	464	PRO
6	6-T	497	ARG
2	6-U	460	PHE
2	6-U	800	PRO
3	6-V	319	LEU
3	6-V	1519	SER
1	6-W	278	PRO
1	6-W	910	GLN
4	6-X	145	GLN
6	6-Z	464	PRO
6	6-Z	497	ARG

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Mol	Chain	Res	Type
1	7-A	278	PRO
1	7-B	278	PRO
2	7-C	460	PHE
2	7-C	800	PRO
3	7-D	319	LEU
3	7-D	1519	SER
1	7-E	278	PRO
1	7-E	910	GLN
6	7-H	464	PRO
6	7-H	497	ARG
2	7-I	460	PHE
2	7-I	800	PRO
3	7-J	319	LEU
3	7-J	1519	SER
1	7-K	278	PRO
1	7-K	910	GLN
6	7-N	464	PRO
6	7-N	497	ARG
2	7-O	460	PHE
2	7-O	800	PRO
3	7-P	319	LEU
3	7-P	1519	SER
1	7-Q	278	PRO
1	7-Q	910	GLN
6	7-T	464	PRO
6	7-T	497	ARG
2	7-U	460	PHE
2	7-U	800	PRO
3	7-V	319	LEU
3	7-V	1519	SER
1	7-W	278	PRO
1	7-W	910	GLN
4	7-X	145	GLN
6	7-Z	464	PRO
6	7-Z	497	ARG
1	8-A	278	PRO
1	8-B	278	PRO
2	8-C	460	PHE
2	8-C	800	PRO
3	8-D	319	LEU
3	8-D	1519	SER
1	8-E	278	PRO

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Mol	Chain	Res	Type
1	8-E	910	GLN
6	8-H	464	PRO
6	8-H	497	ARG
2	8-I	460	PHE
2	8-I	800	PRO
3	8-J	319	LEU
3	8-J	1519	SER
1	8-K	278	PRO
1	8-K	910	GLN
6	8-N	464	PRO
6	8-N	497	ARG
2	8-O	460	PHE
2	8-O	800	PRO
3	8-P	319	LEU
3	8-P	1519	SER
1	8-Q	278	PRO
1	8-Q	910	GLN
6	8-T	464	PRO
6	8-T	497	ARG
2	8-U	460	PHE
2	8-U	800	PRO
3	8-V	319	LEU
3	8-V	1519	SER
1	8-W	278	PRO
1	8-W	910	GLN
6	8-Z	464	PRO
1	1-A	158	GLN
1	1-B	158	GLN
2	1-C	22	GLY
2	1-C	31	ARG
2	1-C	429	SER
1	1-E	158	GLN
5	1-G	377	ASN
2	1-I	22	GLY
2	1-I	31	ARG
2	1-I	429	SER
1	1-K	158	GLN
4	1-L	145	GLN
2	1-O	22	GLY
2	1-O	31	ARG
2	1-O	429	SER
1	1-Q	158	GLN

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Mol	Chain	Res	Type
4	1-R	145	GLN
2	1-U	22	GLY
2	1-U	31	ARG
2	1-U	429	SER
1	1-W	158	GLN
4	1-X	145	GLN
1	2-A	158	GLN
1	2-B	158	GLN
2	2-C	22	GLY
2	2-C	31	ARG
2	2-C	429	SER
1	2-E	158	GLN
4	2-F	145	GLN
2	2-I	22	GLY
2	2-I	31	ARG
2	2-I	429	SER
1	2-K	158	GLN
4	2-L	145	GLN
2	2-O	22	GLY
2	2-O	31	ARG
2	2-O	429	SER
1	2-Q	158	GLN
4	2-R	145	GLN
5	2-S	377	ASN
2	2-U	22	GLY
2	2-U	31	ARG
2	2-U	429	SER
1	2-W	158	GLN
1	3-A	158	GLN
1	3-B	158	GLN
2	3-C	22	GLY
2	3-C	31	ARG
2	3-C	429	SER
1	3-E	158	GLN
4	3-F	145	GLN
2	3-I	22	GLY
2	3-I	31	ARG
2	3-I	429	SER
1	3-K	158	GLN
4	3-L	145	GLN
5	3-M	377	ASN
2	3-O	22	GLY

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Mol	Chain	Res	Type
2	3-O	31	ARG
2	3-O	429	SER
1	3-Q	158	GLN
4	3-R	145	GLN
5	3-S	377	ASN
2	3-U	22	GLY
2	3-U	31	ARG
2	3-U	429	SER
1	3-W	158	GLN
4	3-X	145	GLN
5	3-Y	377	ASN
1	4-A	158	GLN
1	4-B	158	GLN
2	4-C	22	GLY
2	4-C	31	ARG
2	4-C	429	SER
1	4-E	158	GLN
4	4-F	145	GLN
2	4-I	22	GLY
2	4-I	31	ARG
2	4-I	429	SER
1	4-K	158	GLN
4	4-L	145	GLN
2	4-O	22	GLY
2	4-O	31	ARG
2	4-O	429	SER
1	4-Q	158	GLN
4	4-R	145	GLN
5	4-S	377	ASN
2	4-U	22	GLY
2	4-U	31	ARG
2	4-U	429	SER
1	4-W	158	GLN
1	5-A	158	GLN
1	5-B	158	GLN
2	5-C	22	GLY
2	5-C	31	ARG
2	5-C	429	SER
1	5-E	158	GLN
4	5-F	145	GLN
2	5-I	22	GLY
2	5-I	31	ARG

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Mol	Chain	Res	Type
2	5-I	429	SER
1	5-K	158	GLN
4	5-L	145	GLN
2	5-O	22	GLY
2	5-O	31	ARG
2	5-O	429	SER
1	5-Q	158	GLN
4	5-R	145	GLN
5	5-S	377	ASN
2	5-U	22	GLY
2	5-U	31	ARG
2	5-U	429	SER
1	5-W	158	GLN
1	6-A	158	GLN
1	6-B	158	GLN
2	6-C	22	GLY
2	6-C	31	ARG
2	6-C	429	SER
1	6-E	158	GLN
4	6-F	145	GLN
2	6-I	22	GLY
2	6-I	31	ARG
2	6-I	429	SER
1	6-K	158	GLN
4	6-L	145	GLN
2	6-O	22	GLY
2	6-O	31	ARG
2	6-O	429	SER
1	6-Q	158	GLN
4	6-R	145	GLN
5	6-S	377	ASN
2	6-U	22	GLY
2	6-U	31	ARG
2	6-U	429	SER
1	6-W	158	GLN
1	7-A	158	GLN
1	7-B	158	GLN
2	7-C	22	GLY
2	7-C	31	ARG
2	7-C	429	SER
1	7-E	158	GLN
4	7-F	145	GLN

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Mol	Chain	Res	Type
2	7-I	22	GLY
2	7-I	31	ARG
2	7-I	429	SER
1	7-K	158	GLN
4	7-L	145	GLN
2	7-O	22	GLY
2	7-O	31	ARG
2	7-O	429	SER
1	7-Q	158	GLN
4	7-R	145	GLN
5	7-S	377	ASN
2	7-U	22	GLY
2	7-U	31	ARG
2	7-U	429	SER
1	7-W	158	GLN
1	8-A	158	GLN
1	8-B	158	GLN
2	8-C	22	GLY
2	8-C	31	ARG
2	8-C	429	SER
1	8-E	158	GLN
4	8-F	145	GLN
2	8-I	22	GLY
2	8-I	31	ARG
2	8-I	429	SER
1	8-K	158	GLN
4	8-L	145	GLN
5	8-M	377	ASN
2	8-O	22	GLY
2	8-O	31	ARG
2	8-O	429	SER
1	8-Q	158	GLN
4	8-R	145	GLN
5	8-S	377	ASN
2	8-U	22	GLY
2	8-U	31	ARG
2	8-U	429	SER
1	8-W	158	GLN
4	8-X	145	GLN
5	8-Y	377	ASN
2	1-C	430	SER
2	1-I	430	SER

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Mol	Chain	Res	Type
2	1-O	430	SER
2	1-U	430	SER
2	2-C	430	SER
3	2-D	195	VAL
2	2-I	430	SER
3	2-J	195	VAL
2	2-O	430	SER
3	2-P	195	VAL
2	2-U	430	SER
3	2-V	195	VAL
2	3-C	430	SER
3	3-D	195	VAL
2	3-I	430	SER
3	3-J	195	VAL
2	3-O	430	SER
3	3-P	195	VAL
2	3-U	430	SER
3	3-V	195	VAL
2	4-C	430	SER
3	4-D	195	VAL
2	4-I	430	SER
3	4-J	195	VAL
2	4-O	430	SER
3	4-P	195	VAL
2	4-U	430	SER
3	4-V	195	VAL
2	5-C	430	SER
3	5-D	195	VAL
2	5-I	430	SER
3	5-J	195	VAL
2	5-O	430	SER
3	5-P	195	VAL
2	5-U	430	SER
3	5-V	195	VAL
2	6-C	430	SER
3	6-D	195	VAL
2	6-I	430	SER
3	6-J	195	VAL
2	6-O	430	SER
3	6-P	195	VAL
2	6-U	430	SER
3	6-V	195	VAL

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Mol	Chain	Res	Type
2	7-C	430	SER
3	7-D	195	VAL
2	7-I	430	SER
3	7-J	195	VAL
2	7-O	430	SER
3	7-P	195	VAL
2	7-U	430	SER
3	7-V	195	VAL
2	8-C	430	SER
3	8-D	195	VAL
2	8-I	430	SER
3	8-J	195	VAL
2	8-O	430	SER
3	8-P	195	VAL
2	8-U	430	SER
3	8-V	195	VAL
1	1-E	942	PRO
1	1-K	942	PRO
1	1-Q	942	PRO
1	1-W	942	PRO
1	2-E	942	PRO
1	2-K	942	PRO
1	2-Q	942	PRO
1	2-W	942	PRO
1	3-E	942	PRO
1	3-K	942	PRO
1	3-Q	942	PRO
1	3-W	942	PRO
1	4-E	942	PRO
1	4-K	942	PRO
1	4-Q	942	PRO
1	4-W	942	PRO
1	5-E	942	PRO
1	5-K	942	PRO
1	5-Q	942	PRO
1	5-W	942	PRO
1	6-E	942	PRO
1	6-K	942	PRO
1	6-Q	942	PRO
1	6-W	942	PRO
1	7-E	942	PRO
1	7-K	942	PRO

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Mol	Chain	Res	Type
1	7-Q	942	PRO
1	7-W	942	PRO
1	8-E	942	PRO
1	8-K	942	PRO
1	8-Q	942	PRO
1	8-W	942	PRO
1	1-A	76	PRO
1	1-B	76	PRO
2	1-C	276	GLY
1	1-E	76	PRO
2	1-I	276	GLY
1	1-K	76	PRO
2	1-O	276	GLY
1	1-Q	76	PRO
2	1-U	276	GLY
1	1-W	76	PRO
1	2-A	76	PRO
1	2-B	76	PRO
2	2-C	276	GLY
1	2-E	76	PRO
2	2-I	276	GLY
1	2-K	76	PRO
2	2-O	276	GLY
1	2-Q	76	PRO
2	2-U	276	GLY
1	2-W	76	PRO
1	3-A	76	PRO
1	3-B	76	PRO
2	3-C	276	GLY
1	3-E	76	PRO
2	3-I	276	GLY
1	3-K	76	PRO
2	3-O	276	GLY
1	3-Q	76	PRO
2	3-U	276	GLY
1	3-W	76	PRO
1	4-A	76	PRO
1	4-B	76	PRO
2	4-C	276	GLY
1	4-E	76	PRO
2	4-I	276	GLY
1	4-K	76	PRO

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Mol	Chain	Res	Type
2	4-O	276	GLY
1	4-Q	76	PRO
2	4-U	276	GLY
1	4-W	76	PRO
1	5-A	76	PRO
1	5-B	76	PRO
2	5-C	276	GLY
1	5-E	76	PRO
2	5-I	276	GLY
1	5-K	76	PRO
2	5-O	276	GLY
1	5-Q	76	PRO
2	5-U	276	GLY
1	5-W	76	PRO
1	6-A	76	PRO
1	6-B	76	PRO
2	6-C	276	GLY
1	6-E	76	PRO
2	6-I	276	GLY
1	6-K	76	PRO
2	6-O	276	GLY
1	6-Q	76	PRO
2	6-U	276	GLY
1	6-W	76	PRO
1	7-A	76	PRO
1	7-B	76	PRO
2	7-C	276	GLY
1	7-E	76	PRO
2	7-I	276	GLY
1	7-K	76	PRO
2	7-O	276	GLY
1	7-Q	76	PRO
2	7-U	276	GLY
1	7-W	76	PRO
1	8-A	76	PRO
1	8-B	76	PRO
2	8-C	276	GLY
1	8-E	76	PRO
2	8-I	276	GLY
1	8-K	76	PRO
2	8-O	276	GLY
1	8-Q	76	PRO

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Mol	Chain	Res	Type
2	8-U	276	GLY
1	8-W	76	PRO
4	1-F	424	PRO
2	1-I	346	GLY
4	1-L	424	PRO
4	1-R	424	PRO
4	1-X	424	PRO
2	2-C	346	GLY
4	2-F	424	PRO
2	2-I	346	GLY
4	2-L	424	PRO
4	2-R	424	PRO
2	2-U	346	GLY
4	2-X	424	PRO
2	3-C	346	GLY
4	3-F	424	PRO
2	3-I	346	GLY
4	3-L	424	PRO
4	3-R	424	PRO
2	3-U	346	GLY
4	3-X	424	PRO
2	4-C	346	GLY
4	4-F	424	PRO
2	4-I	346	GLY
4	4-L	424	PRO
4	4-R	424	PRO
2	4-U	346	GLY
4	4-X	424	PRO
2	5-C	346	GLY
4	5-F	424	PRO
2	5-I	346	GLY
4	5-L	424	PRO
4	5-R	424	PRO
2	5-U	346	GLY
4	5-X	424	PRO
2	6-C	346	GLY
4	6-F	424	PRO
2	6-I	346	GLY
4	6-L	424	PRO
4	6-R	424	PRO
2	6-U	346	GLY
4	6-X	424	PRO

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Mol	Chain	Res	Type
2	7-C	346	GLY
4	7-F	424	PRO
2	7-I	346	GLY
4	7-L	424	PRO
4	7-R	424	PRO
2	7-U	346	GLY
4	7-X	424	PRO
2	8-C	346	GLY
4	8-F	424	PRO
2	8-I	346	GLY
4	8-L	424	PRO
4	8-R	424	PRO
2	8-U	346	GLY
4	8-X	424	PRO

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
4	1-F	6
4	1-L	6
4	1-R	6
4	1-X	6
4	2-F	5
4	2-L	5
4	2-R	5
4	2-X	5
4	3-F	5
4	3-L	5
4	3-R	5
4	3-X	5
4	4-F	5
4	4-L	5
4	4-R	5
4	4-X	5
4	5-F	5
4	5-L	5
4	5-R	5
4	5-X	5
4	6-F	5
4	6-L	5
4	6-R	5
4	6-X	5
4	7-F	5
4	7-L	5
4	7-R	5
4	7-X	5
4	8-F	5
4	8-L	5
4	8-R	5
4	8-X	5
2	1-C	3
2	1-I	3
2	1-O	3
2	1-U	3
2	2-C	3
2	2-I	3
2	2-O	3
2	2-U	3

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Mol	Chain	Number of breaks
2	3-C	3
2	3-I	3
2	3-O	3
2	3-U	3
2	4-C	3
2	4-I	3
2	4-O	3
2	4-U	3
2	5-C	3
2	5-I	3
2	5-O	3
2	5-U	3
2	6-C	3
2	6-I	3
2	6-O	3
2	6-U	3
2	7-C	3
2	7-I	3
2	7-O	3
2	7-U	3
2	8-C	3
2	8-I	3
2	8-O	3
2	8-U	3
5	1-M	3
5	1-Y	3
5	2-G	3
5	2-S	3
5	2-Y	3
5	3-G	3
5	3-M	3
5	3-S	3
5	3-Y	3
5	4-G	3
5	4-S	3
5	4-Y	3
5	5-G	3
5	5-S	3
5	5-Y	3
5	6-G	3
5	6-S	3
5	6-Y	3

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Mol	Chain	Number of breaks
5	7-G	3
5	7-S	3
5	7-Y	3
5	8-G	3
5	8-M	3
5	8-S	3
5	8-Y	3
5	1-G	3
5	1-S	3
5	2-M	3
5	4-M	3
5	5-M	3
5	6-M	3
5	7-M	3
6	1-H	3
6	1-N	3
6	1-T	3
6	1-Z	3
6	2-H	3
6	2-N	3
6	2-T	3
6	2-Z	3
6	3-H	3
6	3-N	3
6	3-T	3
6	3-Z	3
6	4-H	3
6	4-N	3
6	4-T	3
6	4-Z	3
6	5-H	3
6	5-N	3
6	5-T	3
6	5-Z	3
6	6-H	3
6	6-N	3
6	6-T	3
6	6-Z	3
6	7-H	3
6	7-N	3
6	7-T	3
6	7-Z	3

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Mol	Chain	Number of breaks
6	8-H	3
6	8-N	3
6	8-T	3
6	8-Z	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	483:GLU	C	484:ARG	N	4.02
1	I	483:GLU	C	484:ARG	N	4.02
1	O	483:GLU	C	484:ARG	N	4.02
1	U	483:GLU	C	484:ARG	N	4.02
2	C	483:GLU	C	484:ARG	N	4.02
2	I	483:GLU	C	484:ARG	N	4.02
2	O	483:GLU	C	484:ARG	N	4.02
2	U	483:GLU	C	484:ARG	N	4.02
3	C	483:GLU	C	484:ARG	N	4.02
3	I	483:GLU	C	484:ARG	N	4.02
3	O	483:GLU	C	484:ARG	N	4.02
3	U	483:GLU	C	484:ARG	N	4.02
4	C	483:GLU	C	484:ARG	N	4.02
4	I	483:GLU	C	484:ARG	N	4.02
4	O	483:GLU	C	484:ARG	N	4.02
4	U	483:GLU	C	484:ARG	N	4.02
5	C	483:GLU	C	484:ARG	N	4.02
5	I	483:GLU	C	484:ARG	N	4.02
5	O	483:GLU	C	484:ARG	N	4.02
5	U	483:GLU	C	484:ARG	N	4.02
6	C	483:GLU	C	484:ARG	N	4.02
6	I	483:GLU	C	484:ARG	N	4.02
6	O	483:GLU	C	484:ARG	N	4.02
6	U	483:GLU	C	484:ARG	N	4.02
7	C	483:GLU	C	484:ARG	N	4.02
7	I	483:GLU	C	484:ARG	N	4.02
7	O	483:GLU	C	484:ARG	N	4.02
7	U	483:GLU	C	484:ARG	N	4.02
8	C	483:GLU	C	484:ARG	N	4.02
8	I	483:GLU	C	484:ARG	N	4.02
8	O	483:GLU	C	484:ARG	N	4.02
8	U	483:GLU	C	484:ARG	N	4.02
1	C	447:ASP	C	448:TYR	N	3.63
1	I	447:ASP	C	448:TYR	N	3.63
1	O	447:ASP	C	448:TYR	N	3.63

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	U	447:ASP	C	448:TYR	N	3.63
2	C	447:ASP	C	448:TYR	N	3.63
2	I	447:ASP	C	448:TYR	N	3.63
2	O	447:ASP	C	448:TYR	N	3.63
2	U	447:ASP	C	448:TYR	N	3.63
3	C	447:ASP	C	448:TYR	N	3.63
3	I	447:ASP	C	448:TYR	N	3.63
3	O	447:ASP	C	448:TYR	N	3.63
3	U	447:ASP	C	448:TYR	N	3.63
4	C	447:ASP	C	448:TYR	N	3.63
4	I	447:ASP	C	448:TYR	N	3.63
4	O	447:ASP	C	448:TYR	N	3.63
4	U	447:ASP	C	448:TYR	N	3.63
5	C	447:ASP	C	448:TYR	N	3.63
5	I	447:ASP	C	448:TYR	N	3.63
5	O	447:ASP	C	448:TYR	N	3.63
5	U	447:ASP	C	448:TYR	N	3.63
6	C	447:ASP	C	448:TYR	N	3.63
6	I	447:ASP	C	448:TYR	N	3.63
6	O	447:ASP	C	448:TYR	N	3.63
6	U	447:ASP	C	448:TYR	N	3.63
7	C	447:ASP	C	448:TYR	N	3.63
7	I	447:ASP	C	448:TYR	N	3.63
7	O	447:ASP	C	448:TYR	N	3.63
7	U	447:ASP	C	448:TYR	N	3.63
8	C	447:ASP	C	448:TYR	N	3.63
8	I	447:ASP	C	448:TYR	N	3.63
8	O	447:ASP	C	448:TYR	N	3.63
8	U	447:ASP	C	448:TYR	N	3.63
1	M	379:HIS	C	380:ILE	N	1.99
1	Y	379:HIS	C	380:ILE	N	1.99
2	G	379:HIS	C	380:ILE	N	1.99
2	S	379:HIS	C	380:ILE	N	1.99
2	Y	379:HIS	C	380:ILE	N	1.99
3	G	379:HIS	C	380:ILE	N	1.99
3	M	379:HIS	C	380:ILE	N	1.99
3	S	379:HIS	C	380:ILE	N	1.99
3	Y	379:HIS	C	380:ILE	N	1.99
4	G	379:HIS	C	380:ILE	N	1.99
4	S	379:HIS	C	380:ILE	N	1.99
4	Y	379:HIS	C	380:ILE	N	1.99
5	G	379:HIS	C	380:ILE	N	1.99

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
5	S	379:HIS	C	380:ILE	N	1.99
5	Y	379:HIS	C	380:ILE	N	1.99
6	G	379:HIS	C	380:ILE	N	1.99
6	S	379:HIS	C	380:ILE	N	1.99
6	Y	379:HIS	C	380:ILE	N	1.99
7	G	379:HIS	C	380:ILE	N	1.99
7	S	379:HIS	C	380:ILE	N	1.99
7	Y	379:HIS	C	380:ILE	N	1.99
8	G	379:HIS	C	380:ILE	N	1.99
8	M	379:HIS	C	380:ILE	N	1.99
8	S	379:HIS	C	380:ILE	N	1.99
8	Y	379:HIS	C	380:ILE	N	1.99
1	G	379:HIS	C	380:ILE	N	1.98
1	S	379:HIS	C	380:ILE	N	1.98
2	M	379:HIS	C	380:ILE	N	1.98
4	M	379:HIS	C	380:ILE	N	1.98
5	M	379:HIS	C	380:ILE	N	1.98
6	M	379:HIS	C	380:ILE	N	1.98
7	M	379:HIS	C	380:ILE	N	1.98
1	F	458:ASP	C	459:LEU	N	1.82
1	L	458:ASP	C	459:LEU	N	1.82
1	R	458:ASP	C	459:LEU	N	1.82
1	X	458:ASP	C	459:LEU	N	1.82
2	F	458:ASP	C	459:LEU	N	1.82
2	L	458:ASP	C	459:LEU	N	1.82
2	R	458:ASP	C	459:LEU	N	1.82
2	X	458:ASP	C	459:LEU	N	1.82
3	F	458:ASP	C	459:LEU	N	1.82
3	L	458:ASP	C	459:LEU	N	1.82
3	R	458:ASP	C	459:LEU	N	1.82
3	X	458:ASP	C	459:LEU	N	1.82
4	F	458:ASP	C	459:LEU	N	1.82
4	L	458:ASP	C	459:LEU	N	1.82
4	R	458:ASP	C	459:LEU	N	1.82
4	X	458:ASP	C	459:LEU	N	1.82
5	F	458:ASP	C	459:LEU	N	1.82
5	L	458:ASP	C	459:LEU	N	1.82
5	R	458:ASP	C	459:LEU	N	1.82
5	X	458:ASP	C	459:LEU	N	1.82
6	F	458:ASP	C	459:LEU	N	1.82
6	L	458:ASP	C	459:LEU	N	1.82
6	R	458:ASP	C	459:LEU	N	1.82

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
6	X	458:ASP	C	459:LEU	N	1.82
7	F	458:ASP	C	459:LEU	N	1.82
7	L	458:ASP	C	459:LEU	N	1.82
7	R	458:ASP	C	459:LEU	N	1.82
7	X	458:ASP	C	459:LEU	N	1.82
8	F	458:ASP	C	459:LEU	N	1.82
8	L	458:ASP	C	459:LEU	N	1.82
8	R	458:ASP	C	459:LEU	N	1.82
8	X	458:ASP	C	459:LEU	N	1.82
1	G	339:TYR	C	340:ALA	N	1.72
1	M	339:TYR	C	340:ALA	N	1.72
1	S	339:TYR	C	340:ALA	N	1.72
1	Y	339:TYR	C	340:ALA	N	1.72
2	G	339:TYR	C	340:ALA	N	1.72
2	M	339:TYR	C	340:ALA	N	1.72
2	S	339:TYR	C	340:ALA	N	1.72
2	Y	339:TYR	C	340:ALA	N	1.72
3	G	339:TYR	C	340:ALA	N	1.72
3	M	339:TYR	C	340:ALA	N	1.72
3	S	339:TYR	C	340:ALA	N	1.72
3	Y	339:TYR	C	340:ALA	N	1.72
4	G	339:TYR	C	340:ALA	N	1.72
4	M	339:TYR	C	340:ALA	N	1.72
4	S	339:TYR	C	340:ALA	N	1.72
4	Y	339:TYR	C	340:ALA	N	1.72
5	G	339:TYR	C	340:ALA	N	1.72
5	M	339:TYR	C	340:ALA	N	1.72
5	S	339:TYR	C	340:ALA	N	1.72
5	Y	339:TYR	C	340:ALA	N	1.72
6	G	339:TYR	C	340:ALA	N	1.72
6	M	339:TYR	C	340:ALA	N	1.72
6	S	339:TYR	C	340:ALA	N	1.72
6	Y	339:TYR	C	340:ALA	N	1.72
7	G	339:TYR	C	340:ALA	N	1.72
7	M	339:TYR	C	340:ALA	N	1.72
7	S	339:TYR	C	340:ALA	N	1.72
7	Y	339:TYR	C	340:ALA	N	1.72
8	G	339:TYR	C	340:ALA	N	1.72
8	M	339:TYR	C	340:ALA	N	1.72
8	S	339:TYR	C	340:ALA	N	1.72
8	Y	339:TYR	C	340:ALA	N	1.72
1	F	492:GLU	C	493:HIS	N	1.69

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H	411:GLU	C	412:GLU	N	1.69
1	L	492:GLU	C	493:HIS	N	1.69
1	N	411:GLU	C	412:GLU	N	1.69
1	R	492:GLU	C	493:HIS	N	1.69
1	T	411:GLU	C	412:GLU	N	1.69
1	X	492:GLU	C	493:HIS	N	1.69
1	Z	411:GLU	C	412:GLU	N	1.69
2	F	492:GLU	C	493:HIS	N	1.69
2	H	411:GLU	C	412:GLU	N	1.69
2	L	492:GLU	C	493:HIS	N	1.69
2	N	411:GLU	C	412:GLU	N	1.69
2	R	492:GLU	C	493:HIS	N	1.69
2	T	411:GLU	C	412:GLU	N	1.69
2	X	492:GLU	C	493:HIS	N	1.69
2	Z	411:GLU	C	412:GLU	N	1.69
3	F	492:GLU	C	493:HIS	N	1.69
3	H	411:GLU	C	412:GLU	N	1.69
3	L	492:GLU	C	493:HIS	N	1.69
3	N	411:GLU	C	412:GLU	N	1.69
3	R	492:GLU	C	493:HIS	N	1.69
3	T	411:GLU	C	412:GLU	N	1.69
3	X	492:GLU	C	493:HIS	N	1.69
3	Z	411:GLU	C	412:GLU	N	1.69
4	F	492:GLU	C	493:HIS	N	1.69
4	H	411:GLU	C	412:GLU	N	1.69
4	L	492:GLU	C	493:HIS	N	1.69
4	N	411:GLU	C	412:GLU	N	1.69
4	R	492:GLU	C	493:HIS	N	1.69
4	T	411:GLU	C	412:GLU	N	1.69
4	X	492:GLU	C	493:HIS	N	1.69
4	Z	411:GLU	C	412:GLU	N	1.69
5	F	492:GLU	C	493:HIS	N	1.69
5	H	411:GLU	C	412:GLU	N	1.69
5	L	492:GLU	C	493:HIS	N	1.69
5	N	411:GLU	C	412:GLU	N	1.69
5	R	492:GLU	C	493:HIS	N	1.69
5	T	411:GLU	C	412:GLU	N	1.69
5	X	492:GLU	C	493:HIS	N	1.69
5	Z	411:GLU	C	412:GLU	N	1.69
6	F	492:GLU	C	493:HIS	N	1.69
6	H	411:GLU	C	412:GLU	N	1.69
6	L	492:GLU	C	493:HIS	N	1.69

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
6	N	411:GLU	C	412:GLU	N	1.69
6	R	492:GLU	C	493:HIS	N	1.69
6	T	411:GLU	C	412:GLU	N	1.69
6	X	492:GLU	C	493:HIS	N	1.69
6	Z	411:GLU	C	412:GLU	N	1.69
7	F	492:GLU	C	493:HIS	N	1.69
7	H	411:GLU	C	412:GLU	N	1.69
7	L	492:GLU	C	493:HIS	N	1.69
7	N	411:GLU	C	412:GLU	N	1.69
7	R	492:GLU	C	493:HIS	N	1.69
7	T	411:GLU	C	412:GLU	N	1.69
7	X	492:GLU	C	493:HIS	N	1.69
7	Z	411:GLU	C	412:GLU	N	1.69
8	F	492:GLU	C	493:HIS	N	1.69
8	H	411:GLU	C	412:GLU	N	1.69
8	L	492:GLU	C	493:HIS	N	1.69
8	N	411:GLU	C	412:GLU	N	1.69
8	R	492:GLU	C	493:HIS	N	1.69
8	T	411:GLU	C	412:GLU	N	1.69
8	X	492:GLU	C	493:HIS	N	1.69
8	Z	411:GLU	C	412:GLU	N	1.69
1	F	454:TYR	C	455:ILE	N	1.64
1	L	454:TYR	C	455:ILE	N	1.64
1	R	454:TYR	C	455:ILE	N	1.64
2	R	454:TYR	C	455:ILE	N	1.64
2	X	454:TYR	C	455:ILE	N	1.64
3	R	454:TYR	C	455:ILE	N	1.64
4	F	454:TYR	C	455:ILE	N	1.64
4	X	454:TYR	C	455:ILE	N	1.64
5	F	454:TYR	C	455:ILE	N	1.64
5	X	454:TYR	C	455:ILE	N	1.64
6	F	454:TYR	C	455:ILE	N	1.64
6	X	454:TYR	C	455:ILE	N	1.64
7	F	454:TYR	C	455:ILE	N	1.64
7	X	454:TYR	C	455:ILE	N	1.64
8	F	454:TYR	C	455:ILE	N	1.64
1	X	454:TYR	C	455:ILE	N	1.63
2	F	454:TYR	C	455:ILE	N	1.63
2	L	454:TYR	C	455:ILE	N	1.63
3	F	454:TYR	C	455:ILE	N	1.63
3	L	454:TYR	C	455:ILE	N	1.63
3	X	454:TYR	C	455:ILE	N	1.63

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
4	L	454:TYR	C	455:ILE	N	1.63
4	R	454:TYR	C	455:ILE	N	1.63
5	L	454:TYR	C	455:ILE	N	1.63
5	R	454:TYR	C	455:ILE	N	1.63
6	L	454:TYR	C	455:ILE	N	1.63
6	R	454:TYR	C	455:ILE	N	1.63
7	L	454:TYR	C	455:ILE	N	1.63
7	R	454:TYR	C	455:ILE	N	1.63
8	L	454:TYR	C	455:ILE	N	1.63
8	R	454:TYR	C	455:ILE	N	1.63
8	X	454:TYR	C	455:ILE	N	1.63
1	F	221:GLN	C	222:THR	N	1.61
1	L	221:GLN	C	222:THR	N	1.61
1	R	221:GLN	C	222:THR	N	1.61
1	X	221:GLN	C	222:THR	N	1.61
1	G	378:SER	C	379:HIS	N	1.60
1	M	378:SER	C	379:HIS	N	1.60
1	S	378:SER	C	379:HIS	N	1.60
1	Y	378:SER	C	379:HIS	N	1.60
2	G	378:SER	C	379:HIS	N	1.60
2	M	378:SER	C	379:HIS	N	1.60
2	S	378:SER	C	379:HIS	N	1.60
2	Y	378:SER	C	379:HIS	N	1.60
3	G	378:SER	C	379:HIS	N	1.60
3	M	378:SER	C	379:HIS	N	1.60
3	S	378:SER	C	379:HIS	N	1.60
3	Y	378:SER	C	379:HIS	N	1.60
4	G	378:SER	C	379:HIS	N	1.60
4	M	378:SER	C	379:HIS	N	1.60
4	S	378:SER	C	379:HIS	N	1.60
4	Y	378:SER	C	379:HIS	N	1.60
5	G	378:SER	C	379:HIS	N	1.60
5	M	378:SER	C	379:HIS	N	1.60
5	S	378:SER	C	379:HIS	N	1.60
5	Y	378:SER	C	379:HIS	N	1.60
6	G	378:SER	C	379:HIS	N	1.60
6	M	378:SER	C	379:HIS	N	1.60
6	S	378:SER	C	379:HIS	N	1.60
6	Y	378:SER	C	379:HIS	N	1.60
7	G	378:SER	C	379:HIS	N	1.60
7	M	378:SER	C	379:HIS	N	1.60
7	S	378:SER	C	379:HIS	N	1.60

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
7	Y	378:SER	C	379:HIS	N	1.60
8	G	378:SER	C	379:HIS	N	1.60
8	M	378:SER	C	379:HIS	N	1.60
8	S	378:SER	C	379:HIS	N	1.60
8	Y	378:SER	C	379:HIS	N	1.60
1	H	412:GLU	C	413:LEU	N	1.16
1	N	412:GLU	C	413:LEU	N	1.16
1	T	412:GLU	C	413:LEU	N	1.16
1	Z	412:GLU	C	413:LEU	N	1.16
2	H	412:GLU	C	413:LEU	N	1.16
2	N	412:GLU	C	413:LEU	N	1.16
2	T	412:GLU	C	413:LEU	N	1.16
2	Z	412:GLU	C	413:LEU	N	1.16
3	H	412:GLU	C	413:LEU	N	1.16
3	N	412:GLU	C	413:LEU	N	1.16
3	T	412:GLU	C	413:LEU	N	1.16
3	Z	412:GLU	C	413:LEU	N	1.16
4	H	412:GLU	C	413:LEU	N	1.16
4	N	412:GLU	C	413:LEU	N	1.16
4	T	412:GLU	C	413:LEU	N	1.16
4	Z	412:GLU	C	413:LEU	N	1.16
5	H	412:GLU	C	413:LEU	N	1.16
5	N	412:GLU	C	413:LEU	N	1.16
5	T	412:GLU	C	413:LEU	N	1.16
5	Z	412:GLU	C	413:LEU	N	1.16
6	H	412:GLU	C	413:LEU	N	1.16
6	N	412:GLU	C	413:LEU	N	1.16
6	T	412:GLU	C	413:LEU	N	1.16
6	Z	412:GLU	C	413:LEU	N	1.16
7	H	412:GLU	C	413:LEU	N	1.16
7	N	412:GLU	C	413:LEU	N	1.16
7	T	412:GLU	C	413:LEU	N	1.16
7	Z	412:GLU	C	413:LEU	N	1.16
8	H	412:GLU	C	413:LEU	N	1.16
8	N	412:GLU	C	413:LEU	N	1.16
8	T	412:GLU	C	413:LEU	N	1.16
8	Z	412:GLU	C	413:LEU	N	1.16
1	C	7:GLY	C	8:GLU	N	1.14
1	I	7:GLY	C	8:GLU	N	1.14
1	O	7:GLY	C	8:GLU	N	1.14
1	U	7:GLY	C	8:GLU	N	1.14
2	C	7:GLY	C	8:GLU	N	1.14

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
2	I	7:GLY	C	8:GLU	N	1.14
2	O	7:GLY	C	8:GLU	N	1.14
2	U	7:GLY	C	8:GLU	N	1.14
3	C	7:GLY	C	8:GLU	N	1.14
3	I	7:GLY	C	8:GLU	N	1.14
3	O	7:GLY	C	8:GLU	N	1.14
3	U	7:GLY	C	8:GLU	N	1.14
4	C	7:GLY	C	8:GLU	N	1.14
4	I	7:GLY	C	8:GLU	N	1.14
4	O	7:GLY	C	8:GLU	N	1.14
4	U	7:GLY	C	8:GLU	N	1.14
5	C	7:GLY	C	8:GLU	N	1.14
5	I	7:GLY	C	8:GLU	N	1.14
5	O	7:GLY	C	8:GLU	N	1.14
5	U	7:GLY	C	8:GLU	N	1.14
6	C	7:GLY	C	8:GLU	N	1.14
6	I	7:GLY	C	8:GLU	N	1.14
6	O	7:GLY	C	8:GLU	N	1.14
6	U	7:GLY	C	8:GLU	N	1.14
7	C	7:GLY	C	8:GLU	N	1.14
7	I	7:GLY	C	8:GLU	N	1.14
7	O	7:GLY	C	8:GLU	N	1.14
7	U	7:GLY	C	8:GLU	N	1.14
8	C	7:GLY	C	8:GLU	N	1.14
8	I	7:GLY	C	8:GLU	N	1.14
8	O	7:GLY	C	8:GLU	N	1.14
8	U	7:GLY	C	8:GLU	N	1.14
1	H	408:SER	C	409:PRO	N	1.13
1	N	408:SER	C	409:PRO	N	1.13
1	T	408:SER	C	409:PRO	N	1.13
1	Z	408:SER	C	409:PRO	N	1.13
2	H	408:SER	C	409:PRO	N	1.13
2	N	408:SER	C	409:PRO	N	1.13
2	T	408:SER	C	409:PRO	N	1.13
2	Z	408:SER	C	409:PRO	N	1.13
3	H	408:SER	C	409:PRO	N	1.13
3	N	408:SER	C	409:PRO	N	1.13
3	T	408:SER	C	409:PRO	N	1.13
3	Z	408:SER	C	409:PRO	N	1.13
4	H	408:SER	C	409:PRO	N	1.13
4	N	408:SER	C	409:PRO	N	1.13
4	T	408:SER	C	409:PRO	N	1.13

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
4	Z	408:SER	C	409:PRO	N	1.13
5	H	408:SER	C	409:PRO	N	1.13
5	N	408:SER	C	409:PRO	N	1.13
5	T	408:SER	C	409:PRO	N	1.13
5	Z	408:SER	C	409:PRO	N	1.13
6	H	408:SER	C	409:PRO	N	1.13
6	N	408:SER	C	409:PRO	N	1.13
6	T	408:SER	C	409:PRO	N	1.13
6	Z	408:SER	C	409:PRO	N	1.13
7	H	408:SER	C	409:PRO	N	1.13
7	N	408:SER	C	409:PRO	N	1.13
7	T	408:SER	C	409:PRO	N	1.13
7	Z	408:SER	C	409:PRO	N	1.13
8	H	408:SER	C	409:PRO	N	1.13
8	N	408:SER	C	409:PRO	N	1.13
8	T	408:SER	C	409:PRO	N	1.13
8	Z	408:SER	C	409:PRO	N	1.13
1	F	455:ILE	C	456:ASP	N	0.99
1	L	455:ILE	C	456:ASP	N	0.99
1	R	455:ILE	C	456:ASP	N	0.99
1	X	455:ILE	C	456:ASP	N	0.99
2	F	455:ILE	C	456:ASP	N	0.99
2	L	455:ILE	C	456:ASP	N	0.99
2	R	455:ILE	C	456:ASP	N	0.99
2	X	455:ILE	C	456:ASP	N	0.99
3	F	455:ILE	C	456:ASP	N	0.99
3	L	455:ILE	C	456:ASP	N	0.99
3	R	455:ILE	C	456:ASP	N	0.99
3	X	455:ILE	C	456:ASP	N	0.99
4	F	455:ILE	C	456:ASP	N	0.99
4	L	455:ILE	C	456:ASP	N	0.99
4	R	455:ILE	C	456:ASP	N	0.99
4	X	455:ILE	C	456:ASP	N	0.99
5	F	455:ILE	C	456:ASP	N	0.99
5	L	455:ILE	C	456:ASP	N	0.99
5	R	455:ILE	C	456:ASP	N	0.99
5	X	455:ILE	C	456:ASP	N	0.99
6	F	455:ILE	C	456:ASP	N	0.99
6	L	455:ILE	C	456:ASP	N	0.99
6	R	455:ILE	C	456:ASP	N	0.99
6	X	455:ILE	C	456:ASP	N	0.99
7	F	455:ILE	C	456:ASP	N	0.99

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
7	L	455:ILE	C	456:ASP	N	0.99
7	R	455:ILE	C	456:ASP	N	0.99
7	X	455:ILE	C	456:ASP	N	0.99
8	F	455:ILE	C	456:ASP	N	0.99
8	L	455:ILE	C	456:ASP	N	0.99
8	R	455:ILE	C	456:ASP	N	0.99
8	X	455:ILE	C	456:ASP	N	0.99
1	F	459:LEU	C	460:LEU	N	0.98
1	L	459:LEU	C	460:LEU	N	0.98
1	R	459:LEU	C	460:LEU	N	0.98
1	X	459:LEU	C	460:LEU	N	0.98
2	F	459:LEU	C	460:LEU	N	0.98
2	L	459:LEU	C	460:LEU	N	0.98
2	R	459:LEU	C	460:LEU	N	0.98
2	X	459:LEU	C	460:LEU	N	0.98
3	F	459:LEU	C	460:LEU	N	0.98
3	L	459:LEU	C	460:LEU	N	0.98
3	R	459:LEU	C	460:LEU	N	0.98
3	X	459:LEU	C	460:LEU	N	0.98
4	F	459:LEU	C	460:LEU	N	0.98
4	L	459:LEU	C	460:LEU	N	0.98
4	R	459:LEU	C	460:LEU	N	0.98
4	X	459:LEU	C	460:LEU	N	0.98
5	F	459:LEU	C	460:LEU	N	0.98
5	L	459:LEU	C	460:LEU	N	0.98
5	R	459:LEU	C	460:LEU	N	0.98
5	X	459:LEU	C	460:LEU	N	0.98
6	F	459:LEU	C	460:LEU	N	0.98
6	L	459:LEU	C	460:LEU	N	0.98
6	R	459:LEU	C	460:LEU	N	0.98
6	X	459:LEU	C	460:LEU	N	0.98
7	F	459:LEU	C	460:LEU	N	0.98
7	L	459:LEU	C	460:LEU	N	0.98
7	R	459:LEU	C	460:LEU	N	0.98
7	X	459:LEU	C	460:LEU	N	0.98
8	F	459:LEU	C	460:LEU	N	0.98
8	L	459:LEU	C	460:LEU	N	0.98
8	R	459:LEU	C	460:LEU	N	0.98
8	X	459:LEU	C	460:LEU	N	0.98

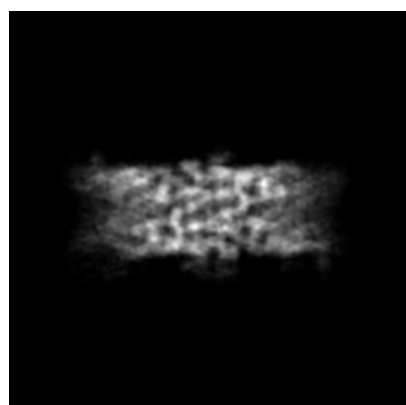
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8085. These allow visual inspection of the internal detail of the map and identification of artifacts.

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

6.1 Orthogonal projections [i](#)

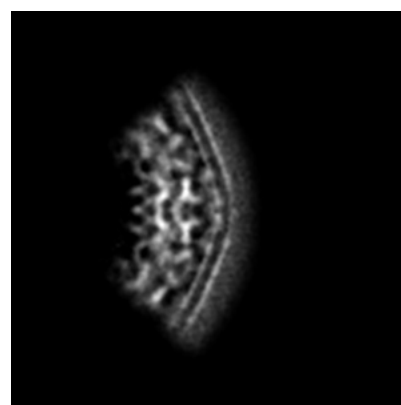
6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 72



Y Index: 72

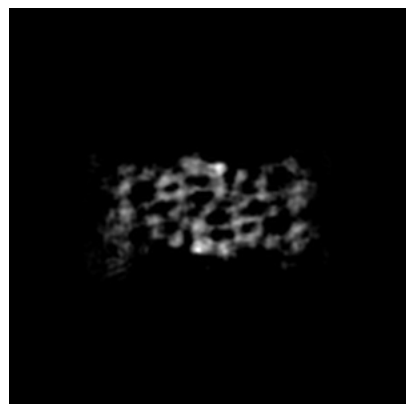


Z Index: 72

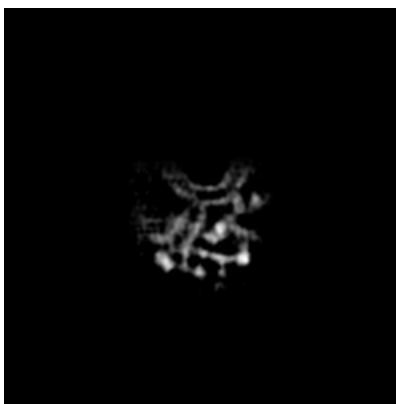
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 53



Y Index: 76

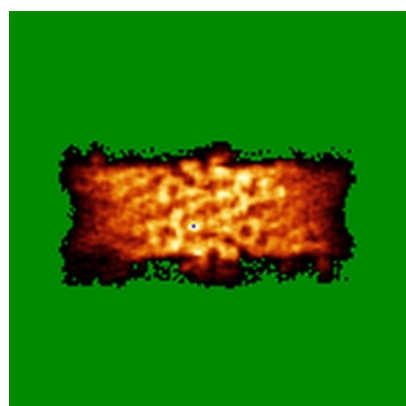


Z Index: 78

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

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

6.4.1 Primary map



X



Y

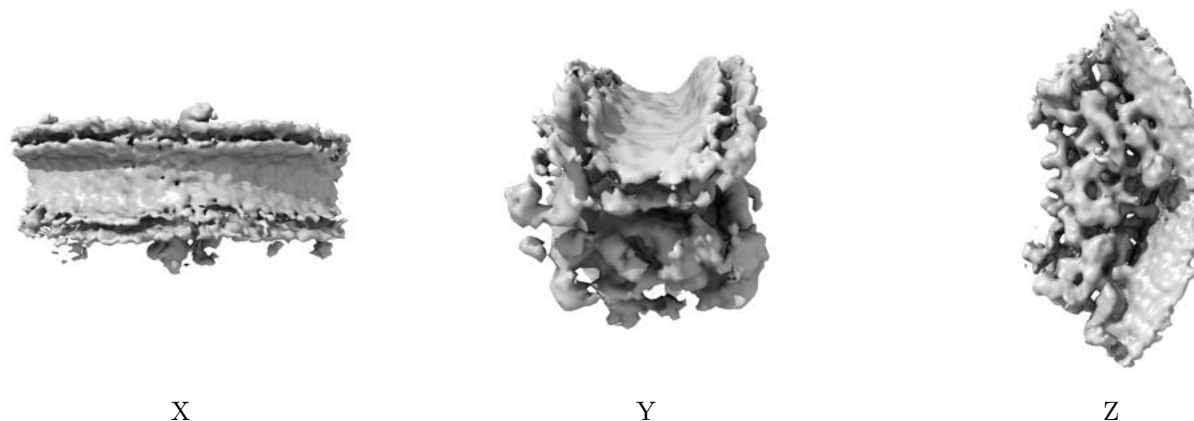


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 36.6. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

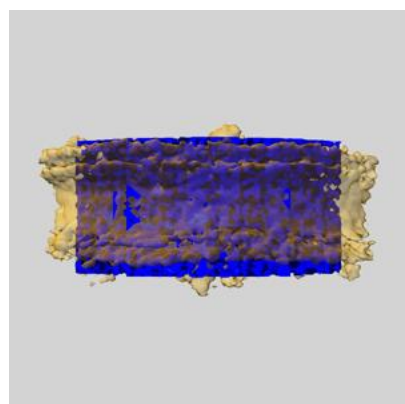
6.6 Mask visualisation [i](#)

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

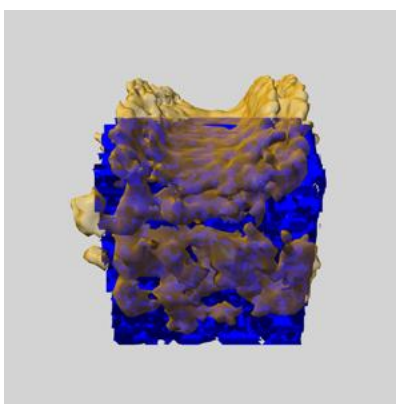
A mask typically either:

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

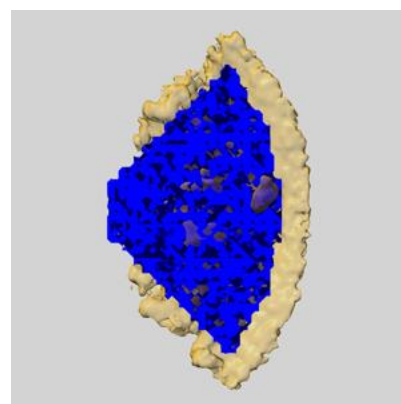
6.6.1 emd_8085_msk_1.map [i](#)



X



Y

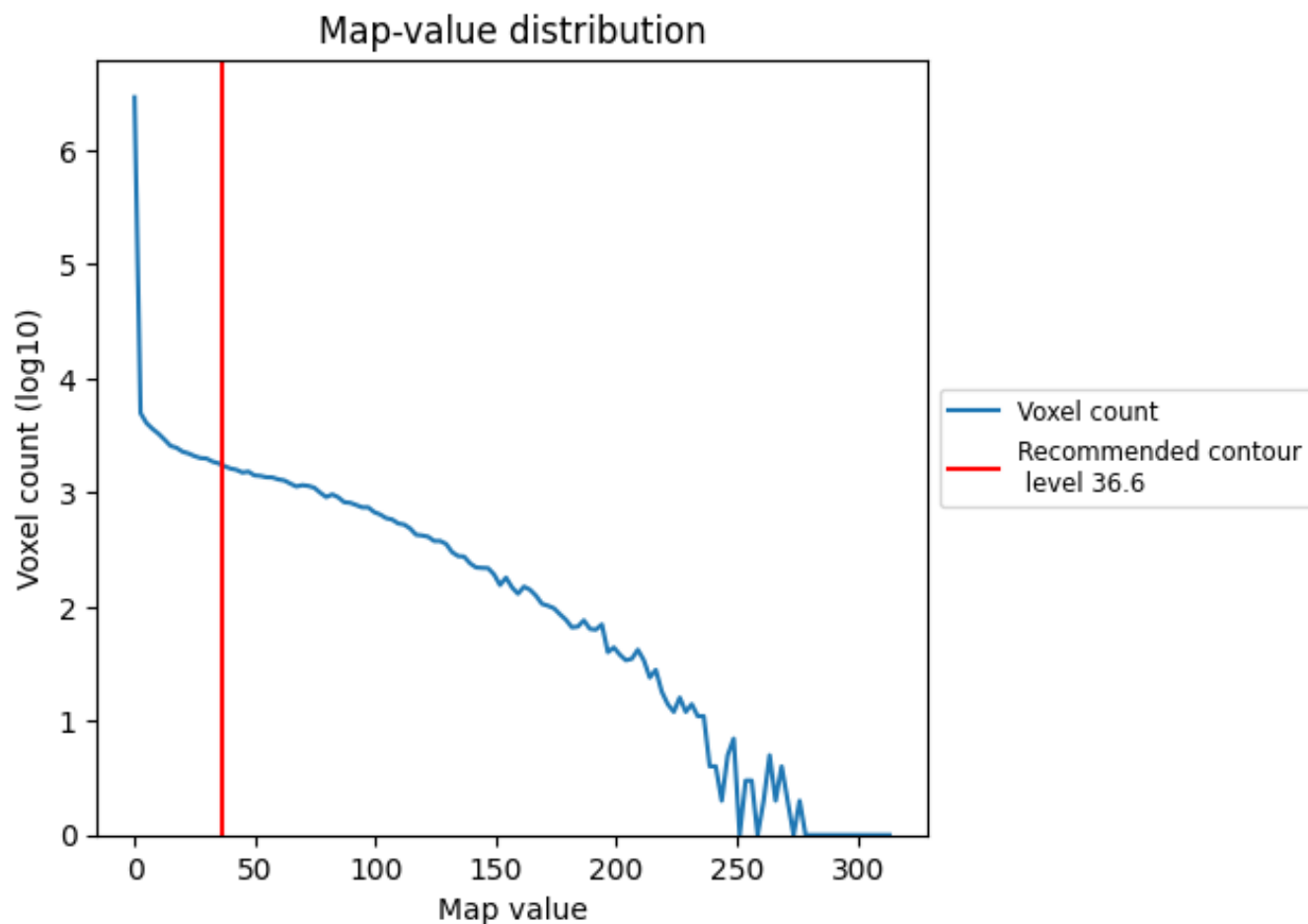


Z

7 Map analysis [i](#)

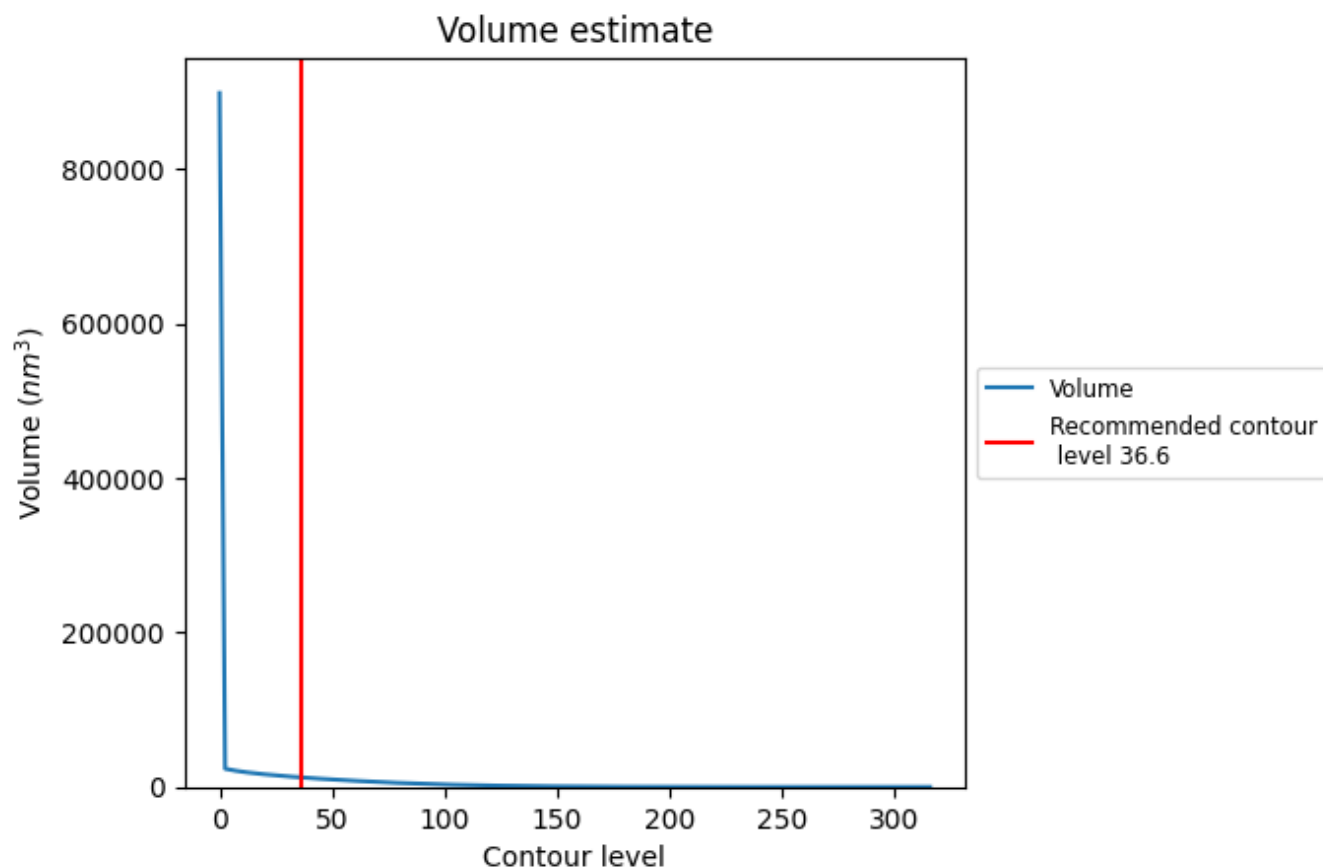
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

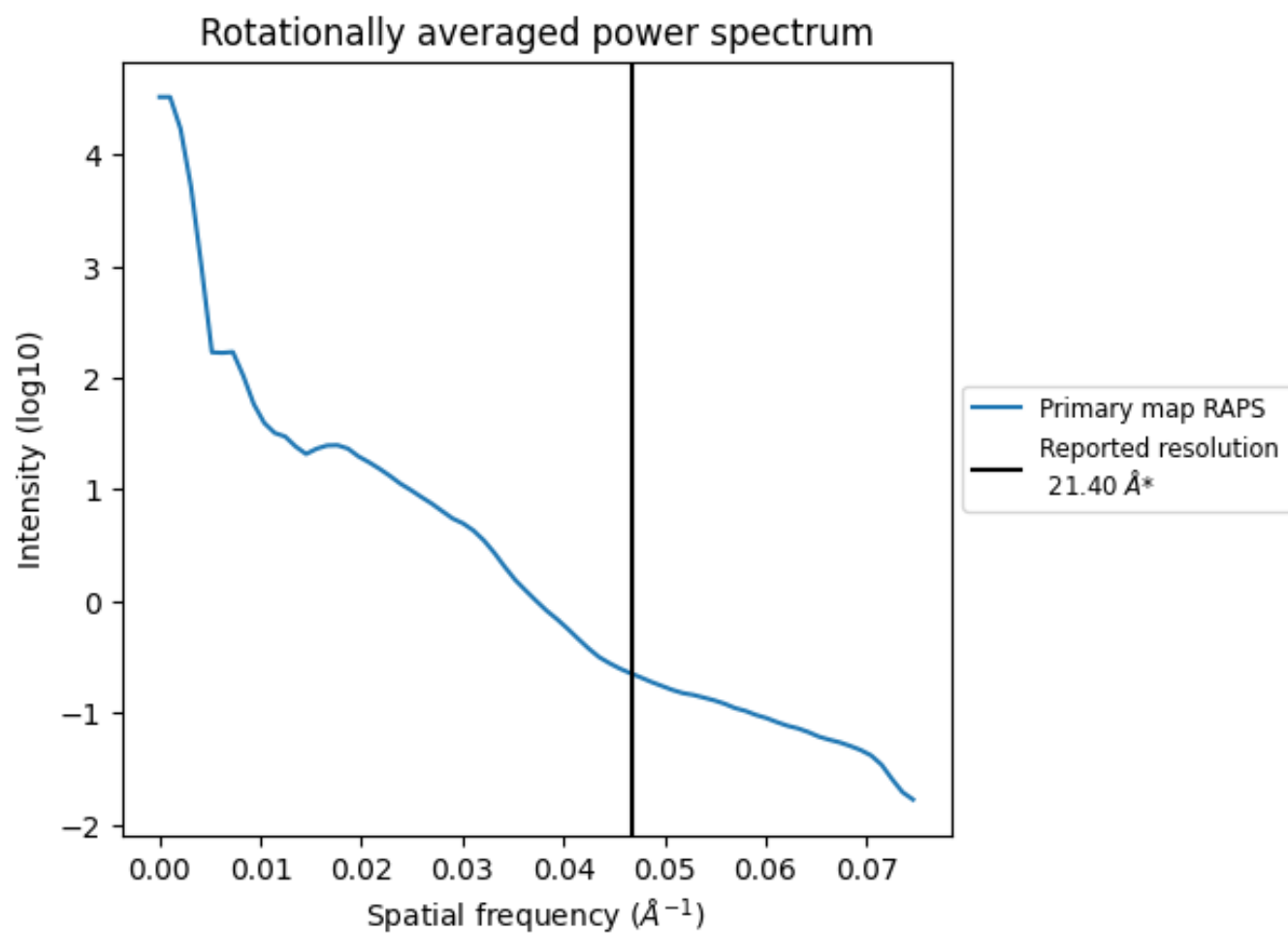
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 12255 nm^3 ; this corresponds to an approximate mass of 11070 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.047 Å⁻¹

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

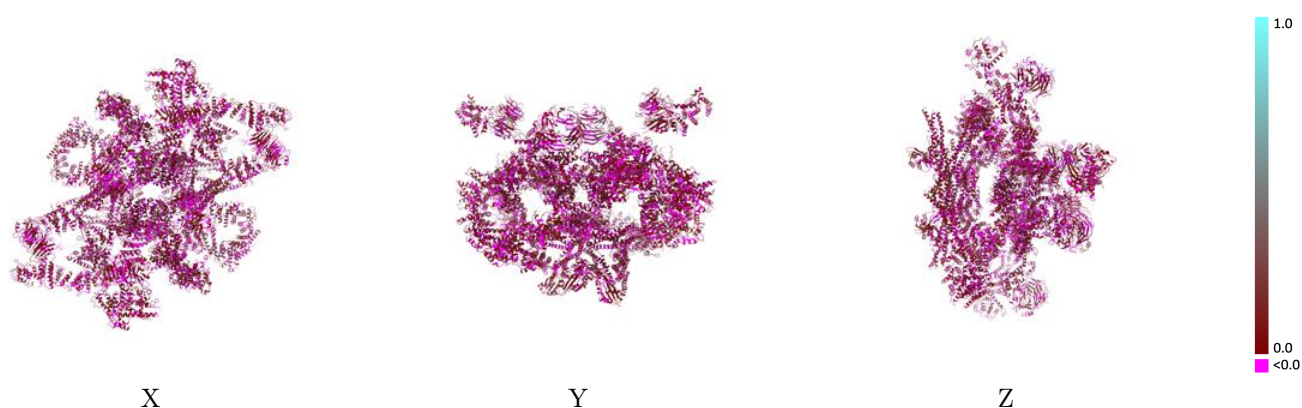
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8085 and PDB model 5IJN. Per-residue inclusion information can be found in section 3 on page 23.

9.1 Map-model overlay [i](#)

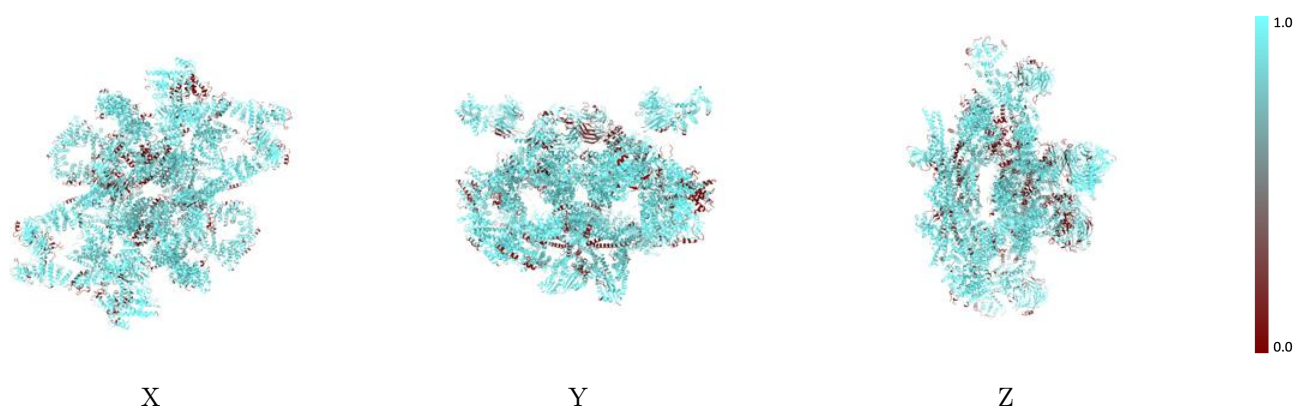
This section was not generated.

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



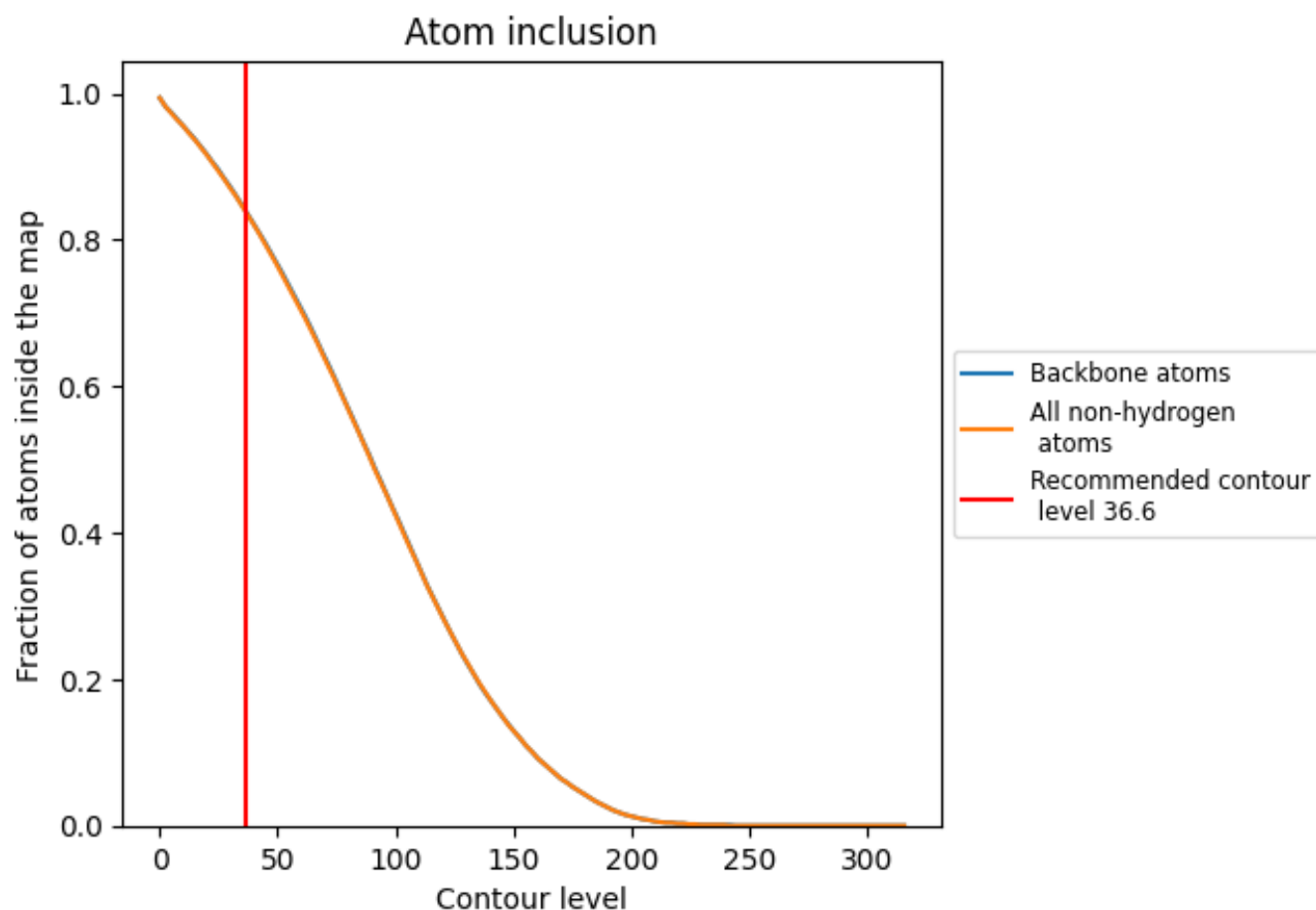
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (36.6).

9.4 Atom inclusion [i](#)



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

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (36.6) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8380	 0.0410
A	 0.9290	 0.0440
B	 0.8790	 0.0450
C	 0.8490	 0.0370
D	 0.8980	 0.0440
E	 0.8660	 0.0390
F	 0.8100	 0.0350
G	 0.9040	 0.0420
H	 0.7990	 0.0240
I	 0.8270	 0.0450
J	 0.8800	 0.0520
K	 0.5460	 0.0180
L	 0.7990	 0.0280
M	 0.8450	 0.0490
N	 0.8730	 0.0700
O	 0.8780	 0.0410
P	 0.8970	 0.0520
Q	 0.8810	 0.0430
R	 0.7760	 0.0280
S	 0.9330	 0.0520
T	 0.7480	 0.0290
U	 0.8000	 0.0380
V	 0.9070	 0.0510
W	 0.7750	 0.0340
X	 0.8370	 0.0380
Y	 0.9000	 0.0550
Z	 0.8490	 0.0460

