



Full wwPDB NMR Structure Validation Report ⓘ

Mar 19, 2026 – 09:49 PM UTC

PDB ID : 2LOS / pdb_00002los
BMRB ID : 18223
Title : Backbone structure of human membrane protein TMEM14C
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Deposited on : 2012-01-26

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

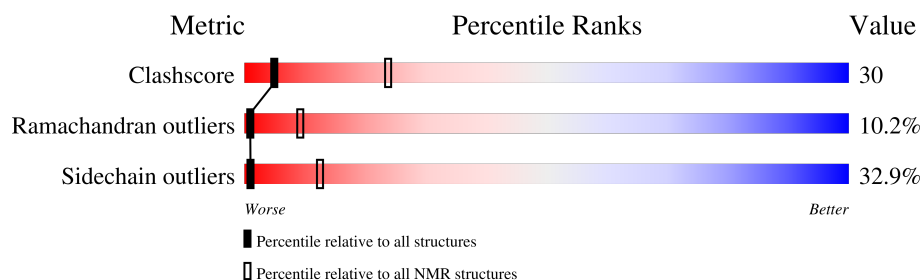
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 41%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	121	28% 39% 10% 16% 7%

2 Ensemble composition and analysis

This entry contains 20 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:3-A:75, A:90-A:109 (93)	1.22	3

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 4 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 5, 7, 8, 9, 10, 14, 15, 16, 17
2	11, 13, 20
3	6, 19
4	12, 18

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1641 atoms, of which 825 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Transmembrane protein 14C.

Mol	Chain	Residues	Atoms						Trace
1	A	112	Total	C	H	N	O	S	0
			1641	534	825	137	139	6	

There are 10 discrepancies between the modelled and reference sequences:

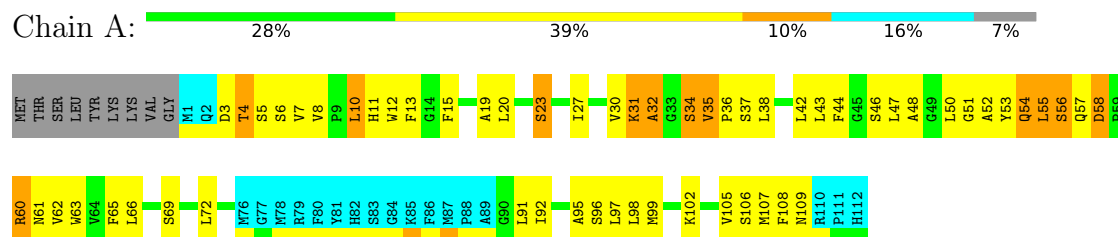
Chain	Residue	Modelled	Actual	Comment	Reference
A	-8	MET	-	expression tag	UNP Q9P0S9
A	-7	THR	-	expression tag	UNP Q9P0S9
A	-6	SER	-	expression tag	UNP Q9P0S9
A	-5	LEU	-	expression tag	UNP Q9P0S9
A	-4	TYR	-	expression tag	UNP Q9P0S9
A	-3	LYS	-	expression tag	UNP Q9P0S9
A	-2	LYS	-	expression tag	UNP Q9P0S9
A	-1	VAL	-	expression tag	UNP Q9P0S9
A	0	GLY	-	expression tag	UNP Q9P0S9
A	5	SER	GLY	engineered mutation	UNP Q9P0S9

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Transmembrane protein 14C

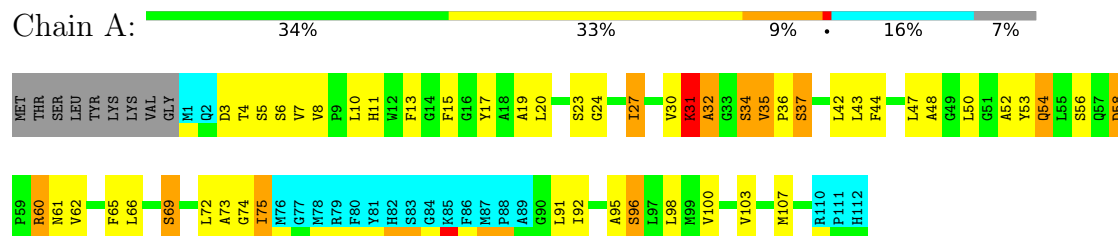


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

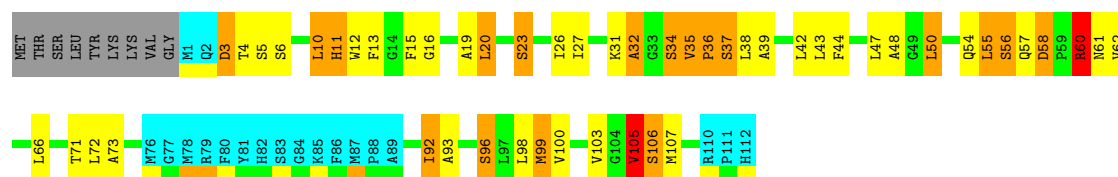
- Molecule 1: Transmembrane protein 14C



4.2.2 Score per residue for model 2

- Molecule 1: Transmembrane protein 14C

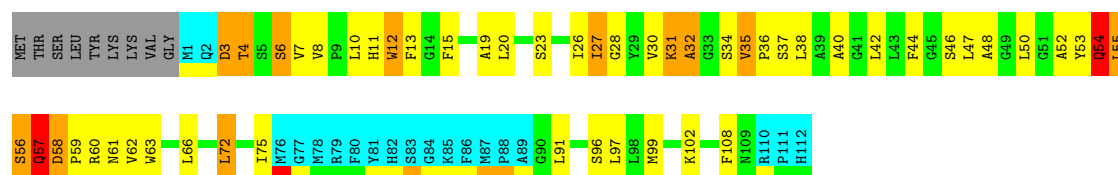




4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: Transmembrane protein 14C

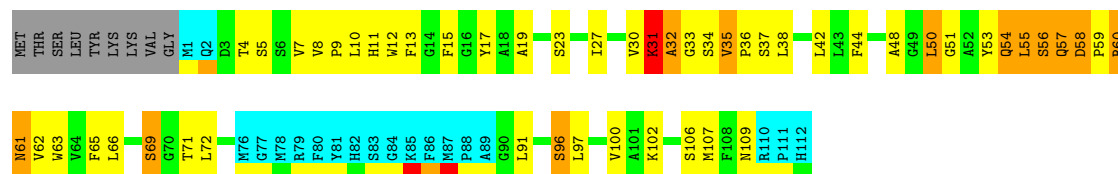
Chain A: 34% 31% 10% 16% 7%



4.2.4 Score per residue for model 4

- Molecule 1: Transmembrane protein 14C

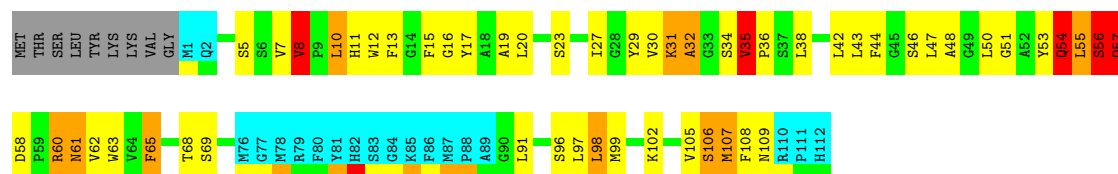
Chain A: 34% 32% 10% 16% 7%



4.2.5 Score per residue for model 5

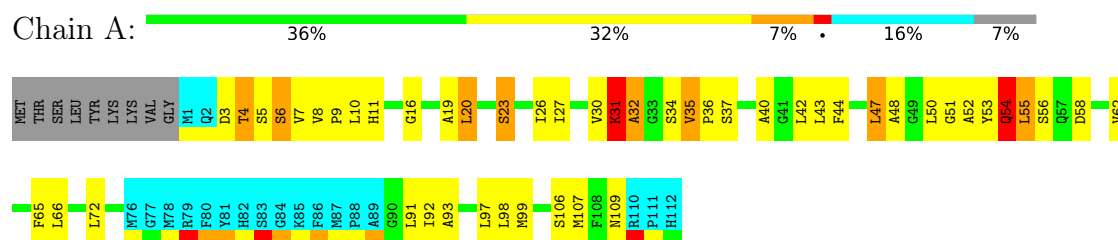
- Molecule 1: Transmembrane protein 14C

Chain A: 32% 32% 8% 16% 7%



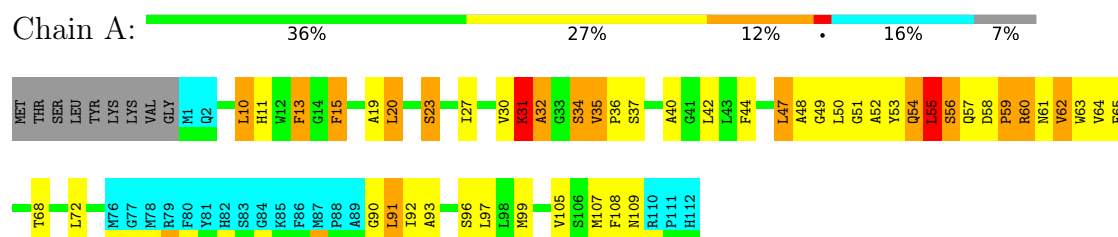
4.2.6 Score per residue for model 6

- Molecule 1: Transmembrane protein 14C



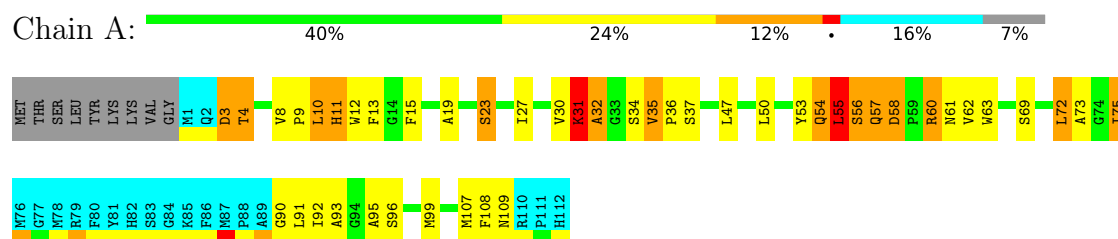
4.2.7 Score per residue for model 7

- Molecule 1: Transmembrane protein 14C



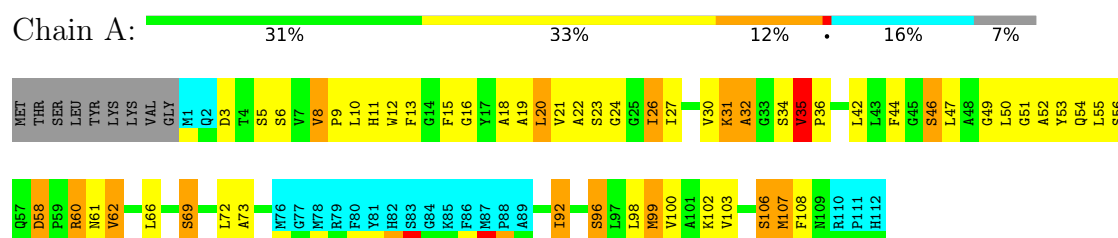
4.2.8 Score per residue for model 8

- Molecule 1: Transmembrane protein 14C



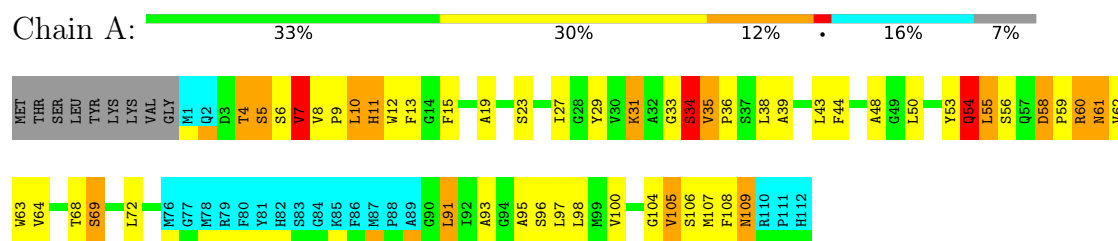
4.2.9 Score per residue for model 9

- Molecule 1: Transmembrane protein 14C



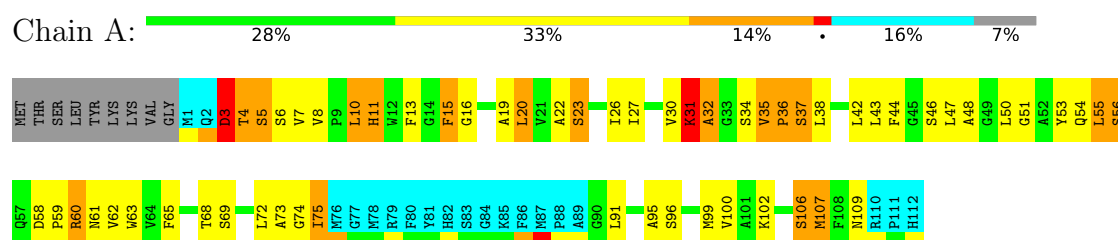
4.2.10 Score per residue for model 10

- Molecule 1: Transmembrane protein 14C



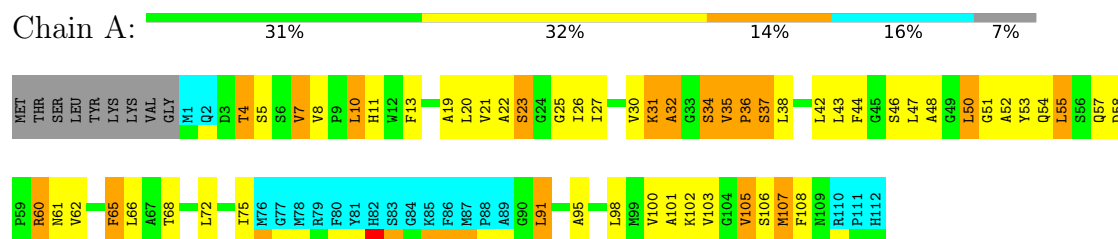
4.2.11 Score per residue for model 11

- Molecule 1: Transmembrane protein 14C



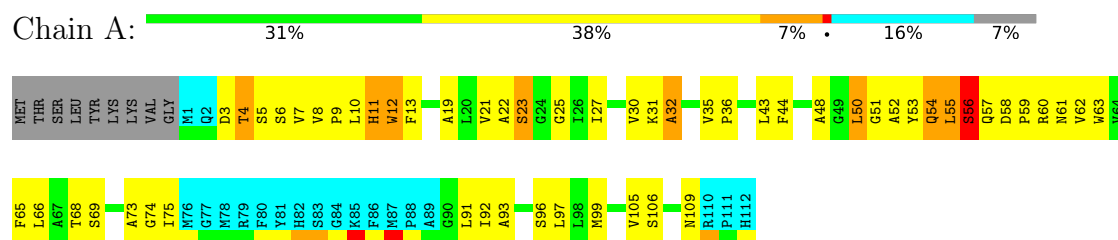
4.2.12 Score per residue for model 12

- Molecule 1: Transmembrane protein 14C



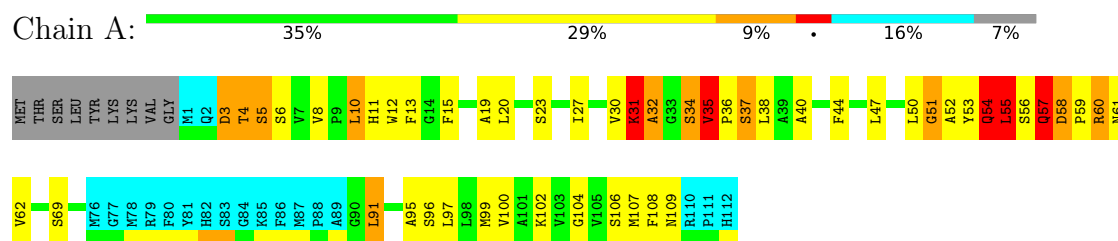
4.2.13 Score per residue for model 13

- Molecule 1: Transmembrane protein 14C



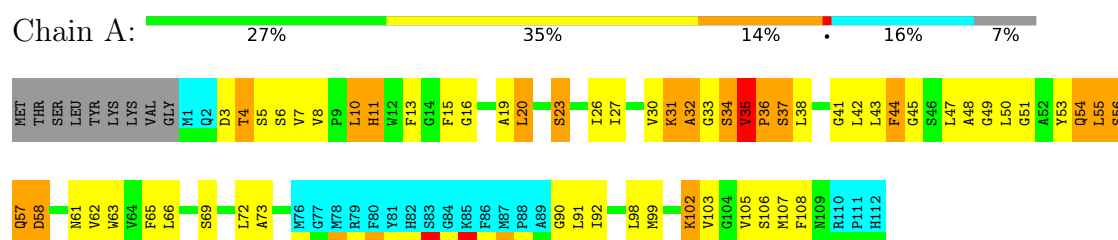
4.2.14 Score per residue for model 14

- Molecule 1: Transmembrane protein 14C



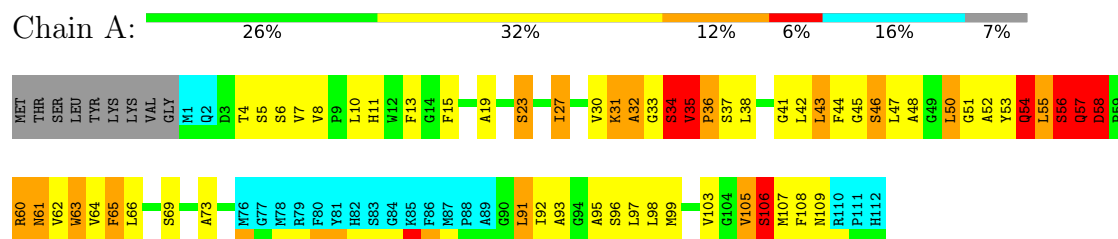
4.2.15 Score per residue for model 15

- Molecule 1: Transmembrane protein 14C



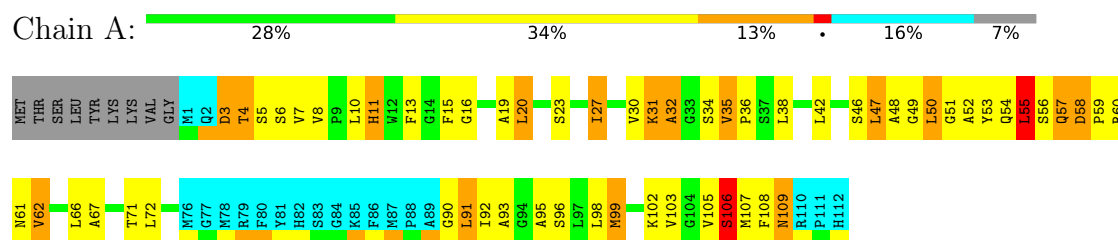
4.2.16 Score per residue for model 16

- Molecule 1: Transmembrane protein 14C



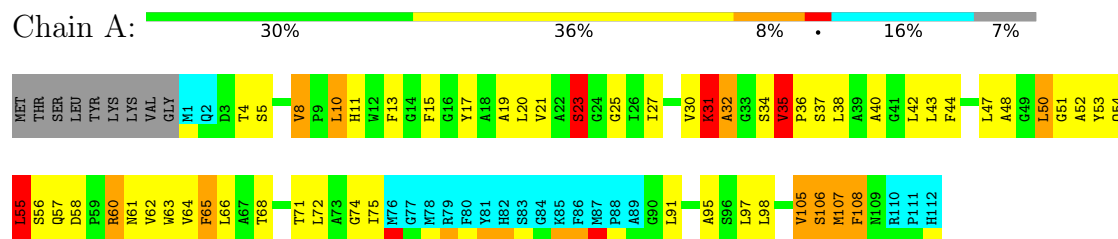
4.2.17 Score per residue for model 17

- Molecule 1: Transmembrane protein 14C



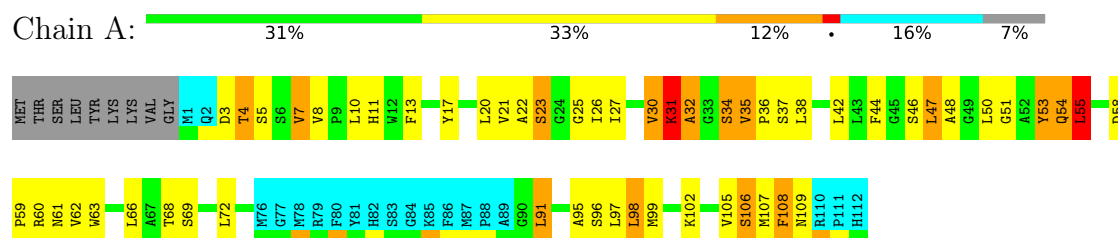
4.2.18 Score per residue for model 18

- Molecule 1: Transmembrane protein 14C



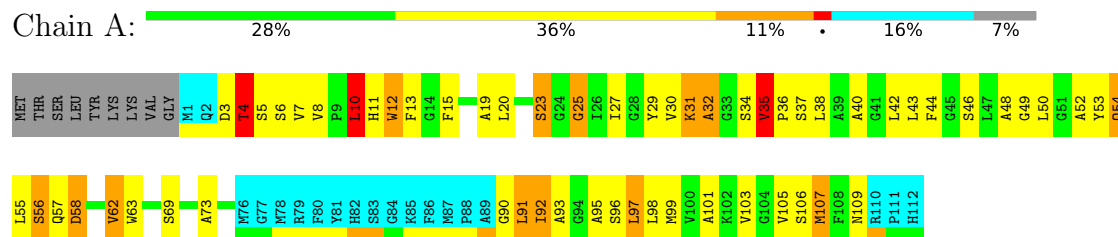
4.2.19 Score per residue for model 19

- Molecule 1: Transmembrane protein 14C



4.2.20 Score per residue for model 20

- Molecule 1: Transmembrane protein 14C



5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *target function*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
CYANA	structure solution	
CYANA	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	527
Number of shifts mapped to atoms	527
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	41%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	657	671	671	39±6
All	All	13140	13420	13420	785

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 30.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:ASN:O	1:A:64:VAL:HG22	0.89	1.65	16	1
1:A:8:VAL:HG12	1:A:12:TRP:CD2	0.87	2.04	5	1
1:A:64:VAL:O	1:A:68:THR:HG23	0.87	1.68	7	1
1:A:26:ILE:O	1:A:30:VAL:HG22	0.87	1.70	15	2
1:A:26:ILE:O	1:A:30:VAL:HG12	0.83	1.72	6	2
1:A:6:SER:O	1:A:8:VAL:HG12	0.80	1.76	20	1
1:A:35:VAL:N	1:A:36:PRO:CD	0.79	2.45	17	20
1:A:34:SER:O	1:A:35:VAL:HG23	0.78	1.79	16	7
1:A:99:MET:O	1:A:103:VAL:HG23	0.76	1.80	9	5
1:A:92:ILE:O	1:A:92:ILE:HD13	0.75	1.81	9	1
1:A:54:GLN:HA	1:A:62:VAL:HG23	0.75	1.55	19	2
1:A:69:SER:O	1:A:73:ALA:HB3	0.74	1.80	9	8
1:A:8:VAL:HG12	1:A:12:TRP:CG	0.74	2.18	5	1
1:A:92:ILE:HD12	1:A:93:ALA:N	0.73	1.99	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:98:LEU:HD23	1:A:102:LYS:NZ	0.73	1.99	19	1
1:A:58:ASP:O	1:A:62:VAL:HG22	0.72	1.83	14	5
1:A:58:ASP:O	1:A:62:VAL:HG23	0.72	1.84	6	6
1:A:35:VAL:HG22	1:A:36:PRO:HD3	0.71	1.61	17	1
1:A:6:SER:O	1:A:7:VAL:HG22	0.69	1.88	20	1
1:A:31:LYS:O	1:A:32:ALA:HB2	0.69	1.88	16	19
1:A:23:SER:OG	1:A:27:ILE:HD12	0.68	1.87	13	1
1:A:20:LEU:C	1:A:20:LEU:HD23	0.68	2.13	7	1
1:A:54:GLN:CD	1:A:62:VAL:HG21	0.67	2.14	13	1
1:A:5:SER:O	1:A:8:VAL:HG22	0.67	1.88	19	1
1:A:75:ILE:HD13	1:A:75:ILE:O	0.66	1.91	11	1
1:A:58:ASP:O	1:A:62:VAL:HG12	0.65	1.90	19	2
1:A:65:PHE:C	1:A:65:PHE:CD1	0.65	2.74	5	1
1:A:53:TYR:C	1:A:65:PHE:CZ	0.65	2.74	15	1
1:A:53:TYR:C	1:A:65:PHE:CE2	0.64	2.74	15	2
1:A:72:LEU:O	1:A:75:ILE:HG22	0.64	1.91	3	2
1:A:35:VAL:N	1:A:36:PRO:HD2	0.63	2.08	17	14
1:A:44:PHE:O	1:A:48:ALA:HB2	0.63	1.94	18	12
1:A:4:THR:O	1:A:4:THR:HG23	0.62	1.94	18	1
1:A:16:GLY:O	1:A:20:LEU:HD12	0.62	1.95	11	1
1:A:23:SER:O	1:A:27:ILE:HG22	0.62	1.94	9	2
1:A:47:LEU:HD23	1:A:47:LEU:O	0.61	1.95	18	2
1:A:96:SER:O	1:A:100:VAL:HG23	0.61	1.95	11	7
1:A:53:TYR:O	1:A:53:TYR:CD1	0.61	2.53	9	3
1:A:8:VAL:HG22	1:A:9:PRO:HD2	0.60	1.72	9	1
1:A:52:ALA:O	1:A:65:PHE:CD2	0.60	2.55	7	2
1:A:54:GLN:O	1:A:55:LEU:C	0.60	2.44	19	2
1:A:53:TYR:CG	1:A:53:TYR:O	0.60	2.54	14	3
1:A:48:ALA:O	1:A:52:ALA:HB3	0.59	1.96	17	3
1:A:65:PHE:CD1	1:A:65:PHE:O	0.59	2.54	12	3
1:A:92:ILE:HD13	1:A:92:ILE:C	0.59	2.22	9	1
1:A:91:LEU:O	1:A:95:ALA:HB2	0.58	1.99	19	9
1:A:49:GLY:O	1:A:53:TYR:CD2	0.58	2.55	15	1
1:A:31:LYS:O	1:A:32:ALA:CB	0.58	2.51	20	19
1:A:55:LEU:O	1:A:56:SER:CB	0.58	2.50	8	4
1:A:57:GLN:O	1:A:62:VAL:HG13	0.58	1.98	16	1
1:A:65:PHE:CD1	1:A:65:PHE:C	0.57	2.83	12	2
1:A:47:LEU:O	1:A:47:LEU:HD13	0.57	1.99	19	1
1:A:100:VAL:O	1:A:103:VAL:HG12	0.57	1.99	12	2
1:A:5:SER:O	1:A:7:VAL:HG12	0.57	1.99	12	1
1:A:49:GLY:O	1:A:53:TYR:CD1	0.57	2.58	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:SER:O	1:A:27:ILE:HD12	0.57	2.00	15	1
1:A:17:TYR:O	1:A:21:VAL:HG23	0.56	2.00	18	1
1:A:98:LEU:HD23	1:A:102:LYS:HZ2	0.56	1.59	19	1
1:A:48:ALA:O	1:A:52:ALA:CB	0.56	2.53	18	9
1:A:10:LEU:O	1:A:11:HIS:C	0.56	2.47	20	20
1:A:49:GLY:O	1:A:53:TYR:CE1	0.56	2.59	20	1
1:A:34:SER:O	1:A:35:VAL:CG2	0.56	2.53	15	7
1:A:27:ILE:O	1:A:31:LYS:CA	0.56	2.54	20	18
1:A:33:GLY:O	1:A:34:SER:CB	0.56	2.54	10	2
1:A:4:THR:HG23	1:A:5:SER:N	0.55	2.16	20	1
1:A:54:GLN:N	1:A:65:PHE:CE2	0.55	2.75	5	2
1:A:53:TYR:O	1:A:65:PHE:CG	0.55	2.59	6	1
1:A:60:ARG:O	1:A:61:ASN:C	0.55	2.50	10	16
1:A:52:ALA:C	1:A:53:TYR:CG	0.55	2.85	3	1
1:A:101:ALA:O	1:A:105:VAL:HG23	0.54	2.02	20	1
1:A:44:PHE:O	1:A:48:ALA:CB	0.54	2.55	18	15
1:A:10:LEU:O	1:A:13:PHE:CB	0.54	2.56	17	17
1:A:15:PHE:O	1:A:19:ALA:CB	0.54	2.56	4	16
1:A:7:VAL:HG23	1:A:8:VAL:HG22	0.54	1.79	5	1
1:A:59:PRO:O	1:A:62:VAL:HG13	0.54	2.03	19	3
1:A:27:ILE:O	1:A:31:LYS:C	0.54	2.51	18	15
1:A:51:GLY:O	1:A:55:LEU:N	0.54	2.41	19	5
1:A:101:ALA:O	1:A:105:VAL:HG13	0.54	2.03	12	1
1:A:48:ALA:O	1:A:52:ALA:HB2	0.53	2.03	7	4
1:A:46:SER:O	1:A:50:LEU:CB	0.53	2.57	19	4
1:A:3:ASP:O	1:A:4:THR:HG22	0.53	2.03	14	1
1:A:30:VAL:O	1:A:31:LYS:CB	0.53	2.56	18	18
1:A:52:ALA:O	1:A:62:VAL:HG22	0.53	2.03	9	1
1:A:50:LEU:O	1:A:53:TYR:CB	0.53	2.57	18	4
1:A:91:LEU:O	1:A:95:ALA:CB	0.53	2.57	19	10
1:A:51:GLY:O	1:A:55:LEU:CA	0.53	2.57	11	3
1:A:23:SER:O	1:A:27:ILE:CG1	0.53	2.57	3	4
1:A:50:LEU:O	1:A:54:GLN:CB	0.52	2.58	7	3
1:A:23:SER:C	1:A:27:ILE:HD12	0.52	2.30	15	2
1:A:54:GLN:OE1	1:A:61:ASN:CB	0.52	2.58	18	2
1:A:59:PRO:O	1:A:62:VAL:CG1	0.52	2.58	11	3
1:A:58:ASP:O	1:A:62:VAL:CG2	0.52	2.58	7	8
1:A:108:PHE:CG	1:A:108:PHE:O	0.52	2.62	9	3
1:A:16:GLY:O	1:A:20:LEU:CB	0.51	2.58	9	3
1:A:60:ARG:O	1:A:63:TRP:CB	0.51	2.59	16	1
1:A:50:LEU:O	1:A:53:TYR:C	0.51	2.54	14	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:53:TYR:HA	1:A:65:PHE:CD2	0.51	2.40	5	1
1:A:7:VAL:HG12	1:A:7:VAL:O	0.51	2.05	16	1
1:A:19:ALA:O	1:A:23:SER:CB	0.51	2.58	15	16
1:A:53:TYR:O	1:A:54:GLN:CB	0.51	2.57	14	3
1:A:15:PHE:O	1:A:19:ALA:HB2	0.51	2.05	18	5
1:A:23:SER:O	1:A:27:ILE:CG2	0.51	2.58	9	2
1:A:4:THR:O	1:A:5:SER:CB	0.51	2.59	11	1
1:A:7:VAL:O	1:A:8:VAL:CG1	0.51	2.59	11	1
1:A:6:SER:O	1:A:7:VAL:CG2	0.51	2.57	20	1
1:A:50:LEU:O	1:A:54:GLN:N	0.50	2.44	15	9
1:A:53:TYR:CA	1:A:65:PHE:CZ	0.50	2.94	15	1
1:A:107:MET:HE3	1:A:109:ASN:CA	0.50	2.37	8	1
1:A:49:GLY:O	1:A:53:TYR:CB	0.50	2.59	17	2
1:A:97:LEU:O	1:A:101:ALA:CB	0.50	2.59	20	1
1:A:54:GLN:O	1:A:62:VAL:CG1	0.50	2.60	9	2
1:A:54:GLN:HG2	1:A:62:VAL:HG23	0.50	1.83	11	1
1:A:52:ALA:O	1:A:53:TYR:CD1	0.50	2.65	3	1
1:A:52:ALA:O	1:A:65:PHE:CE2	0.50	2.65	7	1
1:A:54:GLN:O	1:A:55:LEU:CB	0.50	2.59	7	2
1:A:53:TYR:CD2	1:A:65:PHE:CE1	0.50	3.00	13	1
1:A:5:SER:CB	1:A:8:VAL:O	0.50	2.59	12	3
1:A:7:VAL:C	1:A:8:VAL:CG2	0.50	2.84	5	1
1:A:56:SER:O	1:A:57:GLN:CB	0.50	2.59	14	1
1:A:54:GLN:NE2	1:A:62:VAL:HG21	0.49	2.22	13	1
1:A:20:LEU:HD23	1:A:21:VAL:N	0.49	2.21	9	1
1:A:105:VAL:O	1:A:106:SER:CB	0.49	2.60	17	1
1:A:105:VAL:O	1:A:105:VAL:HG13	0.49	2.07	18	1
1:A:9:PRO:HB2	1:A:11:HIS:CE1	0.49	2.43	6	1
1:A:34:SER:O	1:A:35:VAL:CB	0.49	2.60	20	3
1:A:51:GLY:O	1:A:54:GLN:N	0.48	2.46	17	4
1:A:106:SER:O	1:A:107:MET:CB	0.48	2.61	12	1
1:A:51:GLY:C	1:A:55:LEU:O	0.48	2.57	14	1
1:A:43:LEU:O	1:A:47:LEU:CB	0.48	2.61	16	1
1:A:35:VAL:O	1:A:39:ALA:HB2	0.48	2.09	10	2
1:A:7:VAL:C	1:A:8:VAL:HG13	0.48	2.33	11	1
1:A:56:SER:O	1:A:57:GLN:CG	0.48	2.62	14	1
1:A:7:VAL:O	1:A:8:VAL:HG13	0.48	2.09	11	2
1:A:50:LEU:HD23	1:A:55:LEU:HD22	0.48	1.86	6	1
1:A:105:VAL:HG12	1:A:106:SER:N	0.48	2.24	19	2
1:A:92:ILE:HG23	1:A:93:ALA:N	0.48	2.24	17	6
1:A:49:GLY:CA	1:A:53:TYR:CZ	0.48	2.96	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:GLY:HA2	1:A:53:TYR:CE1	0.48	2.43	7	1
1:A:23:SER:O	1:A:27:ILE:HG23	0.48	2.08	17	1
1:A:20:LEU:C	1:A:20:LEU:CD2	0.48	2.86	7	1
1:A:53:TYR:CE1	1:A:69:SER:CB	0.47	2.97	4	2
1:A:8:VAL:HG23	1:A:9:PRO:HD2	0.47	1.85	13	2
1:A:23:SER:CA	1:A:27:ILE:HD12	0.47	2.39	12	2
1:A:51:GLY:C	1:A:53:TYR:N	0.47	2.72	13	5
1:A:69:SER:O	1:A:73:ALA:CB	0.47	2.59	9	1
1:A:54:GLN:OE1	1:A:61:ASN:CA	0.47	2.63	18	1
1:A:7:VAL:O	1:A:8:VAL:C	0.47	2.58	3	5
1:A:53:TYR:HB3	1:A:65:PHE:CD2	0.47	2.43	1	1
1:A:15:PHE:O	1:A:19:ALA:HB3	0.47	2.09	9	4
1:A:49:GLY:O	1:A:50:LEU:C	0.47	2.58	7	1
1:A:53:TYR:CD1	1:A:65:PHE:CD1	0.47	3.02	12	1
1:A:55:LEU:O	1:A:56:SER:C	0.47	2.58	14	2
1:A:5:SER:O	1:A:6:SER:C	0.47	2.57	15	3
1:A:53:TYR:O	1:A:54:GLN:CG	0.47	2.63	14	1
1:A:50:LEU:HG	1:A:55:LEU:HD23	0.47	1.87	16	1
1:A:59:PRO:HA	1:A:62:VAL:CG2	0.47	2.40	10	1
1:A:53:TYR:CE1	1:A:65:PHE:HB3	0.47	2.45	11	1
1:A:32:ALA:O	1:A:33:GLY:C	0.47	2.57	16	2
1:A:24:GLY:HA2	1:A:27:ILE:HG22	0.46	1.86	1	2
1:A:11:HIS:O	1:A:12:TRP:C	0.46	2.59	20	8
1:A:7:VAL:HG23	1:A:8:VAL:N	0.46	2.25	13	1
1:A:16:GLY:O	1:A:20:LEU:HD13	0.46	2.10	17	1
1:A:57:GLN:O	1:A:58:ASP:C	0.46	2.59	12	3
1:A:26:ILE:O	1:A:30:VAL:CG2	0.46	2.56	15	1
1:A:49:GLY:O	1:A:53:TYR:CG	0.46	2.68	15	1
1:A:4:THR:O	1:A:4:THR:CG2	0.46	2.63	18	1
1:A:16:GLY:O	1:A:20:LEU:HD23	0.46	2.10	6	2
1:A:98:LEU:HD12	1:A:102:LYS:HE3	0.46	1.88	5	1
1:A:4:THR:O	1:A:5:SER:C	0.46	2.58	6	5
1:A:10:LEU:O	1:A:13:PHE:N	0.46	2.49	13	7
1:A:8:VAL:HG22	1:A:9:PRO:CD	0.46	2.39	9	1
1:A:51:GLY:O	1:A:52:ALA:C	0.46	2.58	14	3
1:A:54:GLN:C	1:A:56:SER:N	0.46	2.72	16	1
1:A:53:TYR:HB3	1:A:65:PHE:CG	0.46	2.45	1	1
1:A:53:TYR:HB3	1:A:65:PHE:CD1	0.46	2.46	7	1
1:A:53:TYR:CD2	1:A:53:TYR:O	0.46	2.68	20	1
1:A:92:ILE:CD1	1:A:93:ALA:N	0.45	2.77	6	1
1:A:55:LEU:C	1:A:57:GLN:N	0.45	2.71	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:54:GLN:CA	1:A:62:VAL:HG23	0.45	2.34	19	1
1:A:47:LEU:HD13	1:A:47:LEU:C	0.45	2.36	19	1
1:A:54:GLN:O	1:A:56:SER:N	0.45	2.43	11	2
1:A:74:GLY:O	1:A:75:ILE:C	0.45	2.59	11	3
1:A:61:ASN:O	1:A:62:VAL:C	0.45	2.59	16	8
1:A:18:ALA:O	1:A:21:VAL:HG12	0.45	2.11	9	1
1:A:102:LYS:O	1:A:103:VAL:C	0.45	2.59	17	2
1:A:3:ASP:O	1:A:4:THR:C	0.45	2.60	1	3
1:A:53:TYR:HA	1:A:65:PHE:CG	0.45	2.47	5	1
1:A:6:SER:O	1:A:8:VAL:N	0.45	2.48	17	3
1:A:98:LEU:HD23	1:A:102:LYS:HZ1	0.45	1.70	19	1
1:A:54:GLN:OE1	1:A:54:GLN:C	0.45	2.59	20	1
1:A:54:GLN:HA	1:A:62:VAL:CG2	0.45	2.42	11	1
1:A:9:PRO:HG2	1:A:12:TRP:CD1	0.44	2.46	4	1
1:A:23:SER:C	1:A:25:GLY:N	0.44	2.74	18	5
1:A:71:THR:O	1:A:74:GLY:N	0.44	2.50	18	1
1:A:108:PHE:O	1:A:109:ASN:CB	0.44	2.65	8	1
1:A:56:SER:O	1:A:57:GLN:CD	0.44	2.60	5	1
1:A:21:VAL:HG13	1:A:22:ALA:N	0.44	2.28	19	2
1:A:100:VAL:O	1:A:103:VAL:CG1	0.44	2.66	12	1
1:A:55:LEU:O	1:A:57:GLN:N	0.44	2.50	13	1
1:A:34:SER:HB3	1:A:37:SER:CB	0.44	2.43	7	10
1:A:62:VAL:HG23	1:A:63:TRP:N	0.44	2.28	10	1
1:A:96:SER:O	1:A:100:VAL:CG2	0.44	2.66	10	1
1:A:59:PRO:HA	1:A:62:VAL:CG1	0.44	2.42	19	1
1:A:106:SER:O	1:A:107:MET:C	0.44	2.60	9	3
1:A:4:THR:HG22	1:A:5:SER:H	0.44	1.73	10	1
1:A:21:VAL:HG23	1:A:22:ALA:N	0.44	2.28	13	1
1:A:50:LEU:HD22	1:A:50:LEU:N	0.44	2.28	15	1
1:A:5:SER:O	1:A:7:VAL:N	0.44	2.50	5	2
1:A:50:LEU:O	1:A:51:GLY:C	0.44	2.61	15	3
1:A:62:VAL:O	1:A:65:PHE:CD2	0.44	2.71	5	1
1:A:47:LEU:O	1:A:51:GLY:HA3	0.43	2.13	15	5
1:A:54:GLN:CG	1:A:65:PHE:HB2	0.43	2.43	18	1
1:A:4:THR:O	1:A:6:SER:N	0.43	2.52	2	1
1:A:46:SER:HB2	1:A:50:LEU:HD12	0.43	1.89	9	1
1:A:37:SER:O	1:A:40:ALA:HB3	0.43	2.14	7	6
1:A:40:ALA:O	1:A:44:PHE:CB	0.43	2.67	14	1
1:A:26:ILE:O	1:A:30:VAL:CG1	0.43	2.59	6	1
1:A:59:PRO:O	1:A:60:ARG:C	0.43	2.61	7	1
1:A:105:VAL:CG1	1:A:106:SER:N	0.43	2.82	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:54:GLN:C	1:A:62:VAL:HG22	0.43	2.39	6	1
1:A:64:VAL:O	1:A:68:THR:CB	0.43	2.66	18	1
1:A:61:ASN:O	1:A:64:VAL:N	0.43	2.52	10	1
1:A:105:VAL:HG12	1:A:105:VAL:O	0.43	2.14	20	1
1:A:22:ALA:O	1:A:26:ILE:HG22	0.43	2.14	9	2
1:A:12:TRP:O	1:A:13:PHE:C	0.43	2.62	20	2
1:A:51:GLY:O	1:A:55:LEU:O	0.43	2.37	14	1
1:A:5:SER:O	1:A:8:VAL:N	0.43	2.52	16	1
1:A:103:VAL:HA	1:A:108:PHE:CD2	0.43	2.49	9	1
1:A:97:LEU:O	1:A:101:ALA:HB2	0.43	2.14	20	1
1:A:27:ILE:O	1:A:31:LYS:O	0.42	2.37	5	4
1:A:53:TYR:HA	1:A:65:PHE:CE1	0.42	2.49	15	1
1:A:57:GLN:O	1:A:62:VAL:HG23	0.42	2.14	17	1
1:A:53:TYR:HA	1:A:65:PHE:CZ	0.42	2.48	15	1
1:A:36:PRO:O	1:A:37:SER:C	0.42	2.62	11	1
1:A:67:ALA:O	1:A:71:THR:HG23	0.42	2.13	17	1
1:A:57:GLN:O	1:A:58:ASP:O	0.42	2.38	17	3
1:A:18:ALA:O	1:A:21:VAL:CG1	0.42	2.68	9	1
1:A:92:ILE:C	1:A:92:ILE:CD1	0.42	2.93	9	1
1:A:108:PHE:CG	1:A:109:ASN:N	0.42	2.87	19	2
1:A:71:THR:O	1:A:72:LEU:C	0.42	2.62	18	2
1:A:60:ARG:O	1:A:63:TRP:N	0.42	2.52	10	1
1:A:7:VAL:O	1:A:8:VAL:O	0.42	2.38	5	1
1:A:50:LEU:O	1:A:53:TYR:N	0.42	2.52	5	1
1:A:4:THR:HG22	1:A:5:SER:N	0.42	2.30	13	2
1:A:46:SER:O	1:A:50:LEU:N	0.42	2.53	3	1
1:A:47:LEU:O	1:A:51:GLY:CA	0.42	2.68	15	1
1:A:5:SER:O	1:A:8:VAL:HG23	0.42	2.14	16	1
1:A:23:SER:CB	1:A:27:ILE:HD12	0.42	2.45	18	1
1:A:68:THR:HG23	1:A:69:SER:N	0.42	2.29	13	1
1:A:54:GLN:CG	1:A:62:VAL:HG23	0.41	2.45	11	1
1:A:102:LYS:CG	1:A:108:PHE:HB3	0.41	2.46	12	1
1:A:12:TRP:CE3	1:A:12:TRP:HA	0.41	2.50	20	2
1:A:55:LEU:CA	1:A:62:VAL:HG11	0.41	2.46	14	1
1:A:37:SER:O	1:A:41:GLY:N	0.41	2.53	15	1
1:A:41:GLY:O	1:A:45:GLY:CA	0.41	2.68	16	2
1:A:54:GLN:CG	1:A:65:PHE:CB	0.41	2.98	18	1
1:A:92:ILE:CG2	1:A:93:ALA:N	0.41	2.83	8	2
1:A:34:SER:CB	1:A:37:SER:HB3	0.41	2.45	4	2
1:A:35:VAL:CB	1:A:36:PRO:HD3	0.41	2.45	15	2
1:A:105:VAL:HG13	1:A:106:SER:N	0.41	2.30	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:PRO:CG	1:A:11:HIS:NE2	0.41	2.84	6	1
1:A:53:TYR:C	1:A:54:GLN:OE1	0.41	2.63	6	1
1:A:24:GLY:CA	1:A:27:ILE:HG22	0.41	2.45	1	2
1:A:3:ASP:O	1:A:4:THR:O	0.41	2.38	19	6
1:A:54:GLN:HB2	1:A:65:PHE:CB	0.41	2.45	18	1
1:A:23:SER:O	1:A:27:ILE:CB	0.41	2.69	9	1
1:A:54:GLN:HG3	1:A:65:PHE:CB	0.41	2.45	18	1
1:A:10:LEU:C	1:A:10:LEU:HD13	0.41	2.41	13	1
1:A:53:TYR:CG	1:A:65:PHE:CE1	0.41	3.09	13	1
1:A:102:LYS:C	1:A:104:GLY:N	0.41	2.78	14	1
1:A:48:ALA:O	1:A:49:GLY:C	0.41	2.64	15	1
1:A:54:GLN:O	1:A:55:LEU:HD12	0.41	2.16	17	1
1:A:17:TYR:CD1	1:A:17:TYR:C	0.41	2.98	4	1
1:A:9:PRO:HD2	1:A:12:TRP:CB	0.41	2.46	10	1
1:A:33:GLY:O	1:A:34:SER:C	0.40	2.64	4	1
1:A:108:PHE:CD1	1:A:108:PHE:N	0.40	2.88	7	1
1:A:35:VAL:HG12	1:A:36:PRO:N	0.40	2.31	15	1
1:A:53:TYR:HA	1:A:65:PHE:CE2	0.40	2.51	15	1
1:A:107:MET:HE2	1:A:107:MET:HB3	0.40	1.83	8	1
1:A:8:VAL:CG2	1:A:12:TRP:HB3	0.40	2.47	13	1
1:A:6:SER:C	1:A:8:VAL:N	0.40	2.77	20	1
1:A:5:SER:O	1:A:6:SER:O	0.40	2.39	6	1
1:A:104:GLY:C	1:A:105:VAL:HG23	0.40	2.41	10	1
1:A:7:VAL:CG2	1:A:8:VAL:N	0.40	2.84	13	1
1:A:3:ASP:O	1:A:4:THR:CG2	0.40	2.69	14	1
1:A:26:ILE:C	1:A:28:GLY:N	0.40	2.76	3	1
1:A:9:PRO:HD2	1:A:12:TRP:CG	0.40	2.52	4	1
1:A:52:ALA:HA	1:A:62:VAL:HG22	0.40	1.93	9	1
1:A:59:PRO:O	1:A:62:VAL:HG23	0.40	2.17	14	1
1:A:107:MET:O	1:A:108:PHE:C	0.40	2.64	5	1
1:A:38:LEU:HD23	1:A:38:LEU:C	0.40	2.41	10	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	93/121 (77%)	61±3 (65±3%)	23±3 (24±3%)	10±2 (10±2%)	1	9
All	All	1860/2420 (77%)	1215 (65%)	455 (24%)	190 (10%)	1	9

All 30 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	32	ALA	19
1	A	31	LYS	15
1	A	4	THR	14
1	A	54	GLN	13
1	A	56	SER	13
1	A	23	SER	13
1	A	58	ASP	11
1	A	55	LEU	11
1	A	57	GLN	8
1	A	35	VAL	7
1	A	105	VAL	6
1	A	106	SER	6
1	A	36	PRO	5
1	A	109	ASN	5
1	A	107	MET	4
1	A	5	SER	4
1	A	59	PRO	4
1	A	68	THR	4
1	A	7	VAL	4
1	A	108	PHE	4
1	A	60	ARG	3
1	A	6	SER	3
1	A	90	GLY	3
1	A	3	ASP	3
1	A	8	VAL	2
1	A	34	SER	2
1	A	51	GLY	1
1	A	61	ASN	1
1	A	10	LEU	1
1	A	25	GLY	1

6.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	65/89 (73%)	44±3 (67±5%)	21±3 (33±5%)	1	12
All	All	1300/1780 (73%)	872 (67%)	428 (33%)	1	12

All 58 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	35	VAL	19
1	A	55	LEU	18
1	A	42	LEU	16
1	A	20	LEU	14
1	A	107	MET	14
1	A	91	LEU	14
1	A	47	LEU	13
1	A	66	LEU	13
1	A	72	LEU	13
1	A	96	SER	13
1	A	98	LEU	13
1	A	38	LEU	13
1	A	99	MET	13
1	A	31	LYS	12
1	A	43	LEU	12
1	A	60	ARG	12
1	A	106	SER	12
1	A	56	SER	12
1	A	63	TRP	12
1	A	97	LEU	12
1	A	10	LEU	11
1	A	34	SER	10
1	A	57	GLN	9
1	A	37	SER	7
1	A	69	SER	7
1	A	3	ASP	7
1	A	11	HIS	7
1	A	50	LEU	7
1	A	54	GLN	7
1	A	92	ILE	6
1	A	62	VAL	5
1	A	102	LYS	5
1	A	61	ASN	5

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Mol	Chain	Res	Type	Models (Total)
1	A	65	PHE	5
1	A	58	ASP	5
1	A	46	SER	5
1	A	27	ILE	4
1	A	105	VAL	4
1	A	8	VAL	4
1	A	5	SER	4
1	A	6	SER	4
1	A	17	TYR	3
1	A	75	ILE	3
1	A	12	TRP	3
1	A	29	TYR	3
1	A	109	ASN	3
1	A	26	ILE	2
1	A	15	PHE	2
1	A	44	PHE	2
1	A	71	THR	1
1	A	108	PHE	1
1	A	13	PHE	1
1	A	7	VAL	1
1	A	68	THR	1
1	A	23	SER	1
1	A	30	VAL	1
1	A	53	TYR	1
1	A	4	THR	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 41% for the well-defined parts and 36% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	527
Number of shifts mapped to atoms	527
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	99	-0.86 ± 0.14	Should be checked
$^{13}\text{C}_\beta$	58	0.65 ± 0.10	Should be checked
$^{13}\text{C}'$	87	-1.04 ± 0.07	Should be applied
^{15}N	101	0.46 ± 0.13	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 41%, i.e. 476 atoms were assigned a chemical shift out of a possible 1169. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	376/474 (79%)	123/198 (62%)	165/186 (89%)	88/90 (98%)
Sidechain	100/587 (17%)	33/399 (8%)	67/179 (37%)	0/9 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/108 (0%)	0/53 (0%)	0/52 (0%)	0/3 (0%)
Overall	476/1169 (41%)	156/650 (24%)	232/417 (56%)	88/102 (86%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 36%, i.e. 527 atoms were assigned a chemical shift out of a possible 1444. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	423/567 (75%)	136/236 (58%)	186/224 (83%)	101/107 (94%)
Sidechain	104/726 (14%)	33/490 (7%)	71/219 (32%)	0/17 (0%)
Aromatic	0/151 (0%)	0/75 (0%)	0/71 (0%)	0/5 (0%)
Overall	527/1444 (36%)	169/801 (21%)	257/514 (50%)	101/129 (78%)

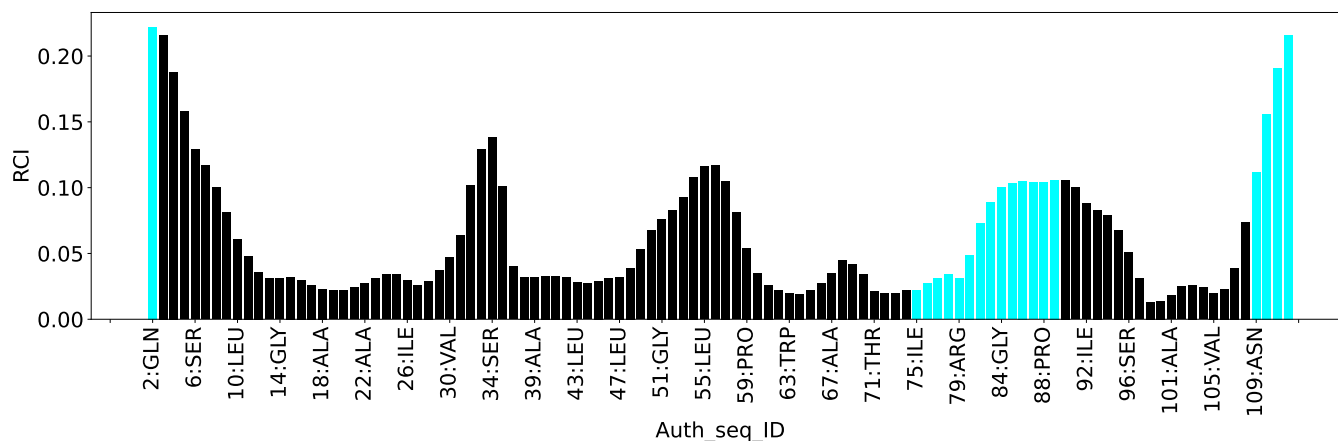
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	1106
Intra-residue ($ i-j =0$)	1
Sequential ($ i-j =1$)	4
Medium range ($ i-j >1$ and $ i-j <5$)	83
Long range ($ i-j \geq 5$)	802
Inter-chain	0
Hydrogen bond restraints	216
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	9.1
Number of long range restraints per residue ¹	6.6

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	24.8	0.2
0.2-0.5 (Medium)	42.6	0.5
>0.5 (Large)	444.1	24.3

8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

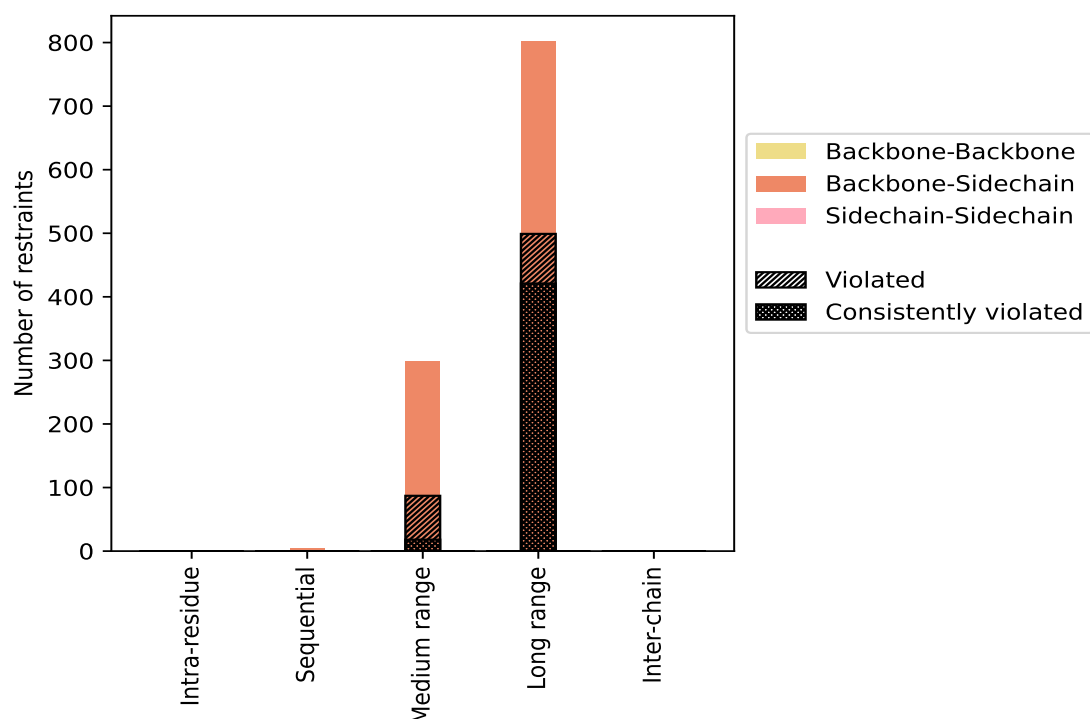
9.1 Summary of distance violations ⓘ

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($ i-j =0$)	1	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1	0.1	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential ($ i-j =1$)	4	0.4	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	4	0.4	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range ($ i-j >1$ & $ i-j <5$)	83	7.5	1	1.2	0.1	1	1.2	0.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	83	7.5	1	1.2	0.1	1	1.2	0.1
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range ($ i-j \geq 5$)	802	72.5	499	62.2	45.1	421	52.5	38.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	802	72.5	499	62.2	45.1	421	52.5	38.1
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	216	19.5	86	39.8	7.8	17	7.9	1.5
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1106	100.0	586	53.0	53.0	439	39.7	39.7
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1106	100.0	586	53.0	53.0	439	39.7	39.7
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	0	38	470	0	508	5.05	23.61	4.09	4.41
2	0	0	40	464	0	504	5.11	23.13	4.1	4.54
3	0	0	39	472	0	511	5.03	23.76	4.14	4.43
4	0	0	43	461	0	504	5.08	24.3	4.2	4.29
5	0	0	43	468	0	511	5.08	24.05	4.17	4.37
6	0	0	49	464	0	513	5.02	22.8	4.13	4.4
7	0	0	47	463	0	510	5.06	23.94	4.16	4.47
8	0	0	45	466	0	511	5.05	23.41	4.12	4.28
9	0	0	47	467	0	514	5.05	23.63	4.14	4.2
10	0	0	42	472	0	514	5.13	22.97	4.26	4.31

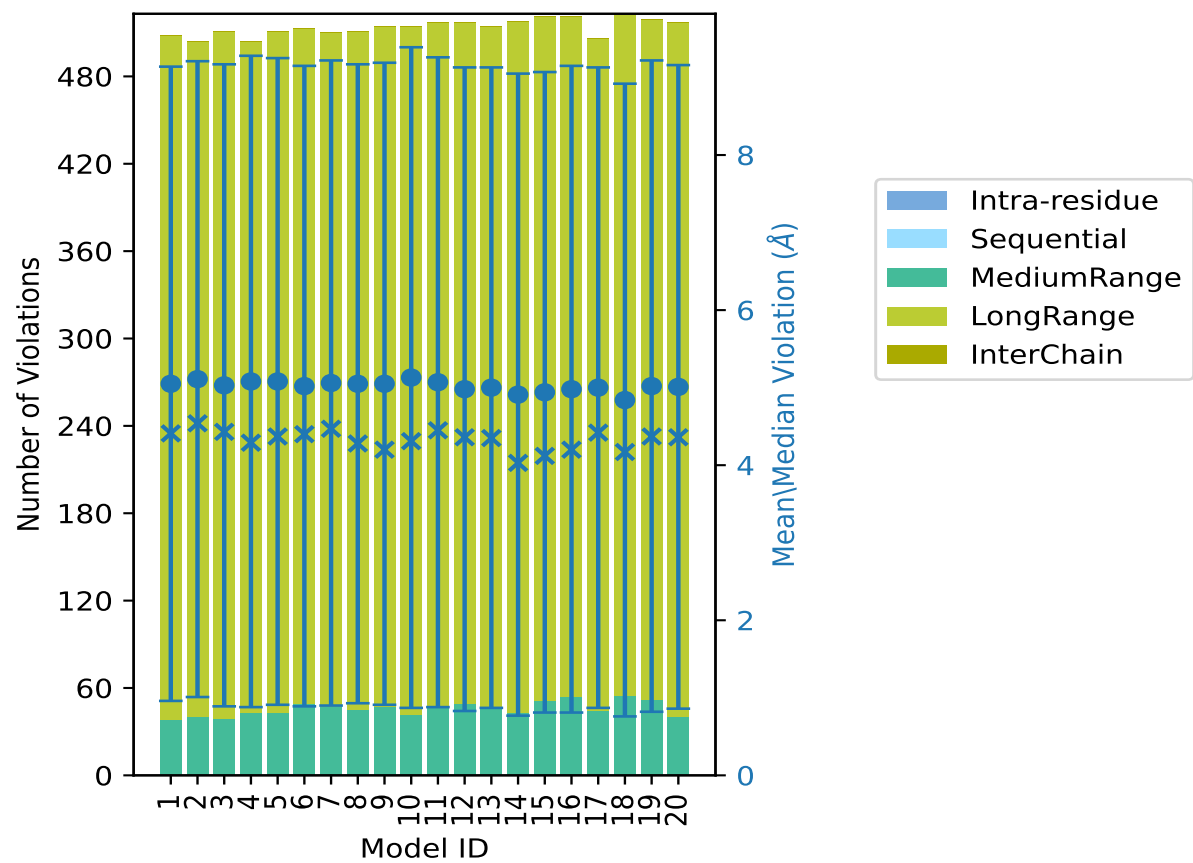
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	0	0	46	471	0	517	5.07	23.3	4.19	4.45
12	0	0	49	468	0	517	4.98	23.82	4.15	4.36
13	0	0	47	467	0	514	5.0	23.77	4.13	4.35
14	0	0	43	475	0	518	4.91	23.41	4.14	4.03
15	0	0	51	470	0	521	4.94	22.69	4.13	4.12
16	0	0	54	467	0	521	4.98	23.95	4.17	4.2
17	0	0	44	462	0	506	5.0	22.59	4.13	4.42
18	0	0	55	468	0	523	4.84	22.77	4.08	4.17
19	0	0	52	467	0	519	5.02	22.68	4.2	4.37
20	0	0	40	477	0	517	5.01	24.19	4.15	4.36

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3 Distance violation statistics for the ensemble

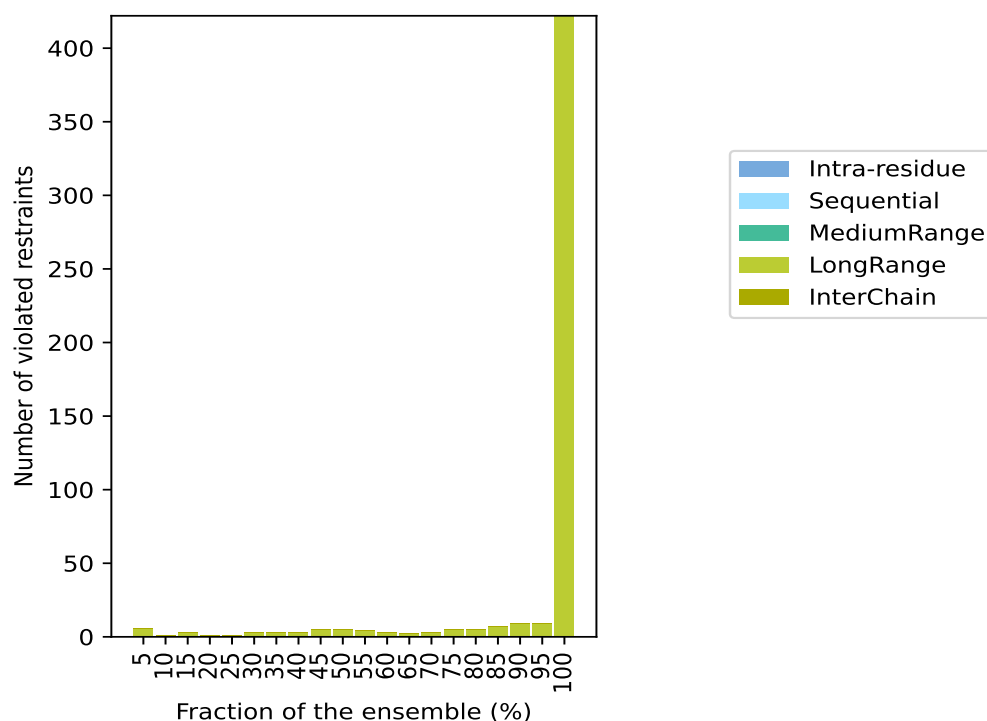
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 390(IR:1, SQ:4, MR:82, LR:303, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	6	0	6	1	5.0
0	0	0	1	0	1	2	10.0
0	0	0	3	0	3	3	15.0
0	0	0	1	0	1	4	20.0
0	0	0	1	0	1	5	25.0
0	0	0	3	0	3	6	30.0
0	0	0	3	0	3	7	35.0
0	0	0	3	0	3	8	40.0
0	0	0	5	0	5	9	45.0
0	0	0	5	0	5	10	50.0
0	0	0	4	0	4	11	55.0
0	0	0	3	0	3	12	60.0
0	0	0	2	0	2	13	65.0
0	0	0	3	0	3	14	70.0
0	0	0	5	0	5	15	75.0
0	0	0	5	0	5	16	80.0
0	0	0	7	0	7	17	85.0
0	0	0	9	0	9	18	90.0
0	0	0	9	0	9	19	95.0
0	0	1	421	0	422	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

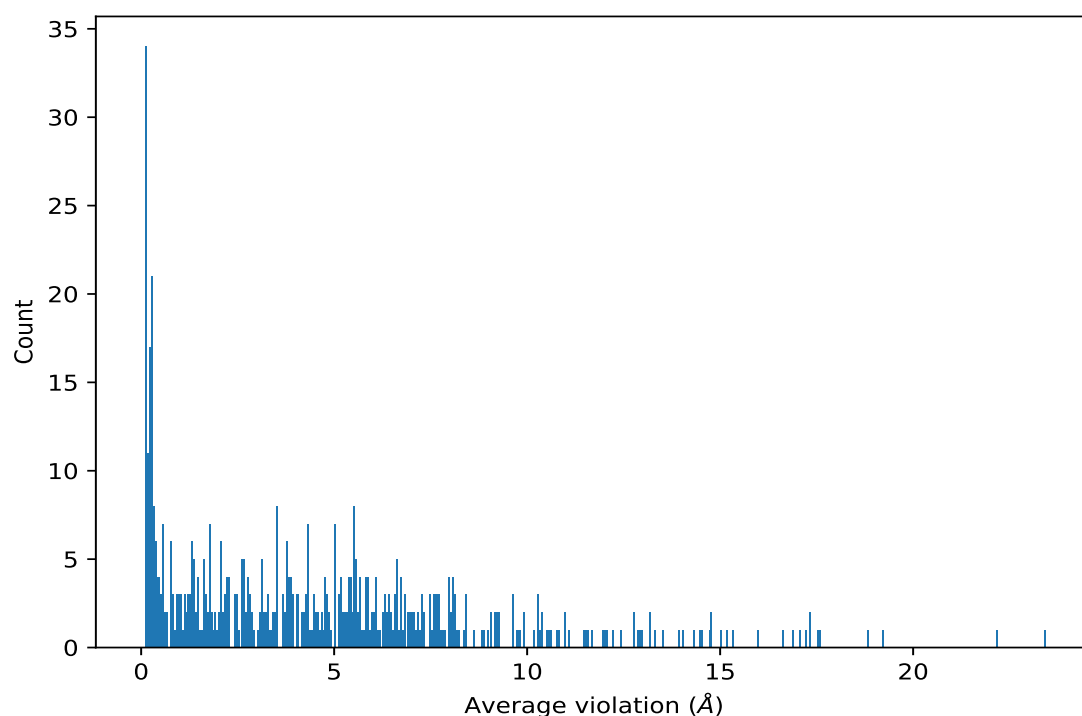
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	20	23.41	0.55	23.51
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	20	22.18	0.6	22.08
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	20	19.22	0.85	19.52
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	20	18.83	0.52	18.94
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	20	17.57	0.41	17.59
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	20	17.54	0.19	17.61
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	20	17.33	0.61	17.29
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	20	17.32	0.4	17.3
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	20	17.2	0.37	17.18
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	20	17.08	0.66	17.09
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	20	16.88	1.33	16.65
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	20	16.61	0.47	16.48
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	20	15.96	0.44	15.92
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	20	15.33	1.23	15.63
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	20	15.2	1.01	15.22
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	20	15.02	0.3	15.08

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	20	14.79	0.76	14.92
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	20	14.77	0.66	14.7
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	20	14.72	0.78	14.77
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	20	14.51	0.74	14.28
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	20	14.46	0.36	14.42
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	20	14.32	0.56	14.24
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	20	14.02	0.65	13.97
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	20	13.9	0.13	13.88
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	20	13.54	1.03	13.83
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	20	13.34	0.77	13.52
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	20	13.2	0.91	13.51
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	20	13.19	0.62	13.26
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	20	12.99	0.83	13.1
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	20	12.94	0.63	13.0
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	20	12.89	0.57	13.08
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	20	12.79	1.05	13.05
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	20	12.78	0.23	12.8
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	20	12.45	0.7	12.5
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	20	12.21	0.72	12.39
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	20	12.07	0.46	12.06
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	20	12.03	0.47	12.12
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	20	11.96	0.46	11.96
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	20	11.69	1.09	11.6
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	20	11.6	0.77	11.32
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	20	11.5	0.51	11.34
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	20	11.46	0.35	11.55
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	20	11.1	0.87	10.98
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	20	10.98	0.1	11.0
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	20	10.97	0.96	11.12
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	20	10.85	0.84	10.82
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	20	10.76	0.12	10.76
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	20	10.62	0.59	10.88
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	20	10.59	0.25	10.54
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	20	10.5	1.46	10.32
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	20	10.39	0.77	10.56
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	20	10.36	0.5	10.5
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	20	10.35	0.2	10.36
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	20	10.28	0.76	10.5
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	20	10.26	0.54	10.25
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	20	10.25	1.4	10.48
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	20	10.15	1.17	9.43
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	20	9.94	0.15	9.93

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	20	9.93	0.43	9.93
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	20	9.83	0.31	9.88
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	20	9.76	0.73	9.88
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	20	9.71	0.39	9.57
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	20	9.64	0.8	9.64
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	20	9.64	0.85	9.91
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	20	9.64	0.5	9.65
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	20	9.28	0.22	9.3
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	20	9.25	0.44	9.38
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	20	9.21	0.5	9.28
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	20	9.21	0.62	9.21
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	20	9.17	0.93	9.28
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	20	9.16	1.18	9.26
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	20	9.09	0.26	9.09
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	20	9.06	0.95	8.98
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	20	8.97	0.71	8.77
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	20	8.87	0.92	8.94
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	20	8.81	0.99	8.94
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	20	8.6	0.61	8.41
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	20	8.45	0.19	8.44
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	20	8.44	1.1	8.34
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	20	8.41	0.22	8.41
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	20	8.36	1.02	8.99
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	20	8.23	0.77	8.26
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	20	8.2	0.48	8.23
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	20	8.13	0.04	8.12
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	20	8.11	1.12	8.48
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	20	8.1	0.03	8.1
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	20	8.08	0.08	8.1
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	20	8.07	0.16	8.09
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	20	8.07	0.03	8.07
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	20	8.06	0.03	8.06
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	20	8.04	0.1	8.06
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	20	8.0	0.04	8.02
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	20	7.99	0.1	8.02
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	20	7.95	0.26	8.07
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	20	7.95	1.06	7.8
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	20	7.95	0.19	8.02
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	20	7.86	0.7	7.86
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	20	7.84	0.19	7.8
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	20	7.75	0.34	7.79
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	20	7.74	0.47	8.02

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	20	7.74	0.41	7.89
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	20	7.72	1.13	7.84
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	20	7.67	0.39	7.86
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	20	7.66	1.5	8.02
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	20	7.65	0.73	7.62
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	20	7.64	0.19	7.57
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	20	7.64	0.28	7.58
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	20	7.63	0.77	7.48
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	20	7.6	0.63	8.0
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	20	7.59	0.37	7.66
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	20	7.58	0.5	7.8
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	20	7.51	0.35	7.52
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	20	7.49	0.5	7.5
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	20	7.48	0.24	7.42
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	20	7.46	0.45	7.4
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	20	7.35	0.12	7.36
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	20	7.32	0.69	7.44
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	20	7.3	0.52	7.38
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	20	7.27	0.38	7.24
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	20	7.26	0.47	7.32
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	20	7.23	0.21	7.22
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	20	7.17	0.66	7.34
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	20	7.16	0.24	7.07
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	20	7.13	0.68	7.18
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	20	7.09	0.84	6.94
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	20	7.06	0.54	7.03
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	20	7.03	0.83	7.2
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	20	7.02	1.3	7.0
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	20	6.99	0.13	7.01
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	20	6.97	0.61	7.04
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	20	6.94	1.05	7.38
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	20	6.92	0.5	6.87
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	20	6.84	0.26	6.86
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	20	6.83	0.58	6.79
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	20	6.82	0.4	6.82
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	20	6.78	1.08	6.76
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	20	6.74	0.22	6.79
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	20	6.73	1.0	6.94
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	20	6.73	0.78	6.56
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	20	6.7	0.67	6.76
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	20	6.65	0.29	6.64
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	20	6.64	0.81	6.66

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	20	6.64	0.24	6.63
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	20	6.62	0.88	6.58
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	20	6.62	3.22	5.9
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	20	6.61	0.42	6.58
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	20	6.6	0.69	6.46
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	20	6.58	0.43	6.6
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	20	6.56	0.9	6.54
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	20	6.55	0.22	6.54
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	20	6.47	0.17	6.52
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	20	6.46	0.45	6.46
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	20	6.42	0.38	6.3
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	20	6.41	0.26	6.41
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	20	6.4	0.63	6.44
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	20	6.36	0.43	6.44
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	20	6.36	0.5	6.2
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	20	6.34	0.64	6.3
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	20	6.31	0.88	6.4
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	20	6.31	1.77	6.94
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	20	6.28	1.34	6.46
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	20	6.25	0.23	6.22
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	20	6.19	0.96	6.22
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	20	6.12	0.35	6.14
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	20	6.1	0.49	6.07
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	20	6.09	0.47	6.06
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	20	6.08	0.05	6.08
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	20	6.06	0.87	6.1
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	20	6.02	0.08	6.04
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	20	6.01	0.05	6.01
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	20	5.98	0.58	6.05
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	20	5.98	0.13	6.02
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	20	5.92	0.36	5.99
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	20	5.88	0.73	5.66
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	20	5.88	0.35	5.82
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	20	5.87	1.18	5.12
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	20	5.86	0.59	5.84
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	20	5.85	0.45	6.0
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	20	5.84	0.8	5.93
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	20	5.83	0.33	5.88
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	20	5.81	0.45	5.89
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	20	5.78	0.28	5.66
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	20	5.74	0.34	5.87
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	20	5.67	1.07	5.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	20	5.66	0.4	5.79
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	20	5.66	0.44	5.92
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	20	5.65	0.53	5.82
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	20	5.64	1.48	5.87
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	20	5.63	0.96	5.54
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	20	5.58	0.9	5.44
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	20	5.58	0.39	5.64
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	20	5.57	0.19	5.56
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	20	5.56	0.79	5.6
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	20	5.56	0.44	5.62
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	20	5.52	0.63	5.73
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	20	5.52	0.48	5.38
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	20	5.52	0.67	5.36
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	20	5.51	0.94	5.62
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	20	5.51	0.53	5.46
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	20	5.51	0.45	5.56
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	20	5.51	0.22	5.56
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	20	5.5	0.15	5.49
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	20	5.49	0.5	5.48
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	20	5.46	0.67	5.68
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	20	5.43	0.49	5.53
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	20	5.42	0.28	5.51
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	20	5.42	1.52	5.66
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	20	5.4	0.25	5.44
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	20	5.39	0.41	5.47
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	20	5.39	0.93	5.43
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	20	5.37	0.21	5.36
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	20	5.36	0.18	5.38
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	20	5.34	0.34	5.36
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	20	5.31	0.27	5.34
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	20	5.25	0.54	5.32
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	20	5.25	0.92	4.96
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	20	5.23	0.81	5.63
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	20	5.2	0.22	5.1
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	20	5.19	0.28	5.12
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	20	5.19	0.87	5.06
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	20	5.16	0.88	5.1
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	20	5.15	0.73	5.16
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	20	5.13	0.13	5.12
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	20	5.13	0.7	5.14
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	20	5.11	0.84	5.14
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	20	5.04	1.23	5.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	20	5.04	0.53	5.12
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	20	5.04	0.3	5.12
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	20	5.03	0.34	5.0
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	20	5.03	1.11	5.59
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	20	5.02	0.35	5.07
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	20	5.0	0.66	5.12
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	20	4.92	1.0	5.14
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	20	4.89	1.59	4.69
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	20	4.87	0.47	4.92
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	20	4.85	0.3	4.91
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	20	4.84	0.43	4.89
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	20	4.83	1.15	4.46
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	20	4.8	0.75	4.72
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	20	4.79	0.32	4.76
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	20	4.77	0.67	4.85
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	20	4.75	2.17	5.84
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	20	4.71	0.41	4.76
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	20	4.69	0.18	4.72
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	20	4.65	0.79	4.67
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	20	4.63	0.56	4.67
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	20	4.6	0.76	4.31
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	20	4.57	1.02	4.56
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	20	4.52	0.27	4.58
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	20	4.51	1.76	4.28
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	20	4.49	0.6	4.46
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	20	4.49	0.7	4.43
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	20	4.48	0.88	4.4
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	20	4.4	0.37	4.35
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	20	4.37	0.21	4.38
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	20	4.35	0.47	4.38
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	20	4.34	1.13	3.94
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	20	4.34	0.49	4.32
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	20	4.33	0.5	4.46
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	20	4.33	0.49	4.3
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	20	4.33	0.29	4.3
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	20	4.33	0.73	4.37
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	20	4.28	0.6	4.39
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	20	4.27	0.78	4.27
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	20	4.26	0.38	4.15
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	20	4.23	0.29	4.24
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	20	4.22	0.47	4.18
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	20	4.19	0.35	4.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	20	4.18	0.59	4.24
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	20	4.07	0.32	4.06
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	20	4.05	0.21	4.04
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	20	4.05	0.51	4.08
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	20	4.04	0.91	4.17
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	20	4.03	0.22	4.04
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	20	4.02	0.48	4.01
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	20	3.94	0.6	3.93
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	20	3.94	0.59	3.68
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	20	3.93	0.34	3.93
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	20	3.89	0.42	3.72
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	20	3.88	0.22	3.83
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	20	3.86	0.44	3.91
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	20	3.85	0.43	3.82
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	20	3.84	0.37	3.83
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	20	3.84	0.25	3.86
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	20	3.83	1.45	3.74
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	20	3.82	0.36	3.89
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	20	3.79	0.21	3.74
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	20	3.78	0.81	3.54
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	20	3.78	0.59	3.73
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	20	3.76	0.48	3.84
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	20	3.75	0.48	3.64
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	20	3.75	0.16	3.72
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	20	3.72	0.36	3.77
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	20	3.7	0.46	3.77
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	20	3.69	0.16	3.7
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	20	3.69	0.3	3.78
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	20	3.66	0.23	3.72
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	20	3.55	0.64	3.52
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	20	3.53	0.34	3.61
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	20	3.53	0.22	3.53
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	20	3.53	0.5	3.52
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	20	3.51	0.27	3.5
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	20	3.5	0.15	3.55
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	20	3.5	1.51	3.02
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	20	3.48	0.44	3.58
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	20	3.48	0.43	3.46
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	20	3.43	0.16	3.44
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	20	3.43	0.62	3.47
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	20	3.37	1.33	3.7
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	20	3.31	0.79	3.02

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	20	3.29	1.66	3.43
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	20	3.25	0.08	3.26
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	20	3.25	0.49	3.26
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	20	3.23	0.28	3.28
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	20	3.22	0.44	3.04
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	20	3.16	1.01	2.72
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	20	3.16	0.5	2.97
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	20	3.12	0.9	2.99
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	20	3.12	0.39	3.04
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	20	3.11	0.73	3.1
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	20	3.11	0.36	3.18
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	20	3.1	0.2	3.12
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	20	3.08	0.42	3.1
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	20	3.06	0.12	3.06
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	20	3.04	0.97	3.21
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	20	2.92	0.35	2.97
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	20	2.86	0.64	2.92
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	20	2.85	0.13	2.86
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	20	2.84	0.35	2.88
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	20	2.83	0.41	3.0
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	20	2.81	0.44	2.76
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	20	2.78	0.2	2.81
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	20	2.78	0.29	2.72
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	20	2.77	0.58	2.72
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	20	2.76	0.39	2.74
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	20	2.73	0.96	2.34
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	20	2.7	1.03	2.38
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	20	2.69	0.37	2.55
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	20	2.68	0.16	2.7
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	20	2.68	0.85	2.36
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	20	2.68	0.31	2.69
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	20	2.67	1.12	2.76
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	20	2.65	1.03	2.26
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	20	2.65	0.32	2.58
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	20	2.64	0.91	2.74
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	20	2.62	0.28	2.56
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	20	2.61	0.97	2.34
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	20	2.5	0.53	2.34
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	20	2.48	0.8	2.37
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	20	2.46	0.48	2.46
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	20	2.43	0.44	2.26
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	20	2.43	0.92	2.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	20	2.42	1.36	3.03
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	20	2.3	0.77	2.05
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	20	2.26	0.3	2.26
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	20	2.25	0.17	2.22
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	20	2.25	0.05	2.24
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	20	2.23	0.22	2.24
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	20	2.21	0.47	2.14
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	20	2.2	0.47	2.19
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	20	2.2	0.85	2.23
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	20	2.18	0.69	2.37
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	20	2.18	0.41	2.31
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	20	2.16	0.68	2.02
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	20	2.13	0.99	2.08
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	20	2.1	0.48	1.98
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	20	2.08	0.84	2.31
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	20	2.08	0.26	2.1
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	20	2.07	0.58	2.08
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	20	2.06	0.23	2.04
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	20	2.06	0.35	2.07
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	20	2.06	0.87	1.74
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	20	2.03	0.1	2.06
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	20	1.92	0.42	1.96
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	20	1.9	0.1	1.92
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	20	1.83	0.16	1.85
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	20	1.83	0.31	1.78
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	20	1.79	0.31	1.79
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	20	1.78	0.35	1.72
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	20	1.77	0.17	1.72
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	20	1.75	0.96	1.42
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	20	1.75	0.44	1.74
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	20	1.74	0.28	1.73
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	20	1.72	0.5	1.74
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	20	1.69	0.27	1.71
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	20	1.67	0.64	1.8
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	20	1.65	0.78	1.31
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	20	1.61	0.33	1.74
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	20	1.53	0.82	1.22
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	20	1.49	0.8	1.39
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	20	1.49	0.24	1.42
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	20	1.48	0.25	1.46
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	20	1.48	0.32	1.52
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	20	1.45	0.39	1.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	20	1.44	0.55	1.56
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	20	1.39	0.35	1.38
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	20	1.38	0.28	1.42
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	20	1.36	0.15	1.38
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	20	1.35	0.62	1.4
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	20	1.35	0.27	1.39
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	20	1.34	0.61	1.29
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	20	1.33	0.44	1.16
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	20	1.32	0.4	1.39
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	20	1.3	0.32	1.32
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	20	1.3	0.19	1.3
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	20	1.25	0.5	1.32
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	20	1.23	0.13	1.21
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	20	1.06	0.32	1.02
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	20	1.03	0.23	0.99
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	20	0.98	0.46	0.96
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	20	0.97	0.28	1.02
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	20	0.96	0.15	1.01
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	20	0.94	0.13	0.96
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	20	0.86	0.28	0.84
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	20	0.81	0.31	0.75
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	20	0.67	0.25	0.62
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	20	0.6	0.29	0.58
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	20	0.6	0.26	0.6
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	20	0.58	0.32	0.53
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	20	0.54	0.14	0.52
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	20	0.39	0.02	0.4
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	20	0.39	0.04	0.38
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	20	0.38	0.09	0.38
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	20	0.37	0.1	0.36
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	20	0.35	0.01	0.34
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	20	0.33	0.05	0.34
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	20	0.33	0.02	0.32
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	20	0.3	0.02	0.31
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	20	0.29	0.04	0.3
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	20	0.28	0.03	0.28
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	20	0.27	0.05	0.29
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	20	0.27	0.05	0.28
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	20	0.25	0.04	0.26
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	20	0.25	0.05	0.25
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	20	0.24	0.06	0.24
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	20	0.2	0.04	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	20	0.17	0.04	0.18
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	20	0.17	0.03	0.16
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	20	0.15	0.02	0.14
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	19	1.98	1.16	1.85
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	19	1.93	1.31	1.74
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	19	1.78	0.89	1.87
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	19	1.77	0.82	1.98
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	19	1.6	0.74	1.48
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	19	1.23	0.35	1.3
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	19	1.1	0.32	1.1
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	19	1.04	0.32	1.14
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	19	0.46	0.19	0.41
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	19	0.29	0.02	0.29
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	19	0.28	0.02	0.28
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	19	0.28	0.05	0.29
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	19	0.24	0.05	0.27
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	19	0.22	0.04	0.23
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	18	2.48	1.06	2.62
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	18	1.63	0.92	1.78
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	18	1.57	0.18	1.58
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	18	1.29	0.59	1.42
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	18	1.29	0.85	1.16
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	18	1.23	0.8	1.17
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	18	1.15	1.23	0.83
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	18	0.93	0.13	0.98
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	18	0.57	0.38	0.42
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	18	0.27	0.04	0.28
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	18	0.26	0.06	0.28
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	18	0.26	0.05	0.26
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	18	0.24	0.02	0.24
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	18	0.21	0.05	0.22
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	18	0.19	0.05	0.18
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	17	1.34	0.77	1.36
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	17	1.18	0.69	1.08
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	17	1.17	0.67	1.18
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	17	0.79	0.45	0.65
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	17	0.77	0.25	0.73
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	17	0.77	0.31	0.68
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	17	0.5	0.31	0.35
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	17	0.26	0.05	0.27
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	17	0.13	0.02	0.12
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	16	1.69	0.93	1.76

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	16	0.82	0.33	0.82
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	16	0.35	0.18	0.29
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	16	0.34	0.17	0.32
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	16	0.18	0.05	0.17
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	16	0.14	0.03	0.14
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	15	3.54	1.32	3.57
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	15	1.11	0.56	1.21
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	15	1.04	0.79	0.89
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	15	0.63	0.35	0.66
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	15	0.57	0.37	0.51
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	15	0.27	0.07	0.29
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	15	0.25	0.04	0.25
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	15	0.24	0.07	0.28
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	15	0.21	0.05	0.22
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	15	0.19	0.05	0.18
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	14	0.75	0.45	0.63
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	14	0.48	0.16	0.5
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	14	0.35	0.28	0.25
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	14	0.18	0.04	0.18
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	13	0.55	0.39	0.44
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	13	0.41	0.21	0.45
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	12	0.78	0.49	0.66
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	12	0.76	0.49	0.62
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	12	0.64	0.31	0.5
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	11	1.63	1.11	1.26
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	11	0.94	0.59	0.83
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	11	0.43	0.3	0.34
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	11	0.32	0.16	0.31
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	11	0.19	0.06	0.19
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	11	0.12	0.02	0.12
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	10	0.82	0.57	0.9
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	10	0.27	0.12	0.25
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	10	0.23	0.09	0.19
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	10	0.14	0.04	0.12
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	10	0.13	0.02	0.12
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	10	0.12	0.02	0.11
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	9	0.48	0.22	0.42
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	9	0.37	0.19	0.31
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	9	0.31	0.06	0.3
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	9	0.27	0.17	0.22
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	9	0.2	0.06	0.2
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	9	0.14	0.03	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	9	0.13	0.02	0.13
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	9	0.12	0.01	0.12
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	9	0.12	0.01	0.11
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	9	0.11	0.01	0.11
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	8	2.04	0.55	2.28
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	8	0.46	0.27	0.43
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	8	0.41	0.19	0.36
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	8	0.2	0.05	0.2
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	8	0.17	0.04	0.16
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	8	0.12	0.03	0.11
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	8	0.12	0.01	0.12
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	8	0.11	0.0	0.11
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	7	0.44	0.3	0.36
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	7	0.27	0.13	0.27
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	7	0.22	0.05	0.24
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	7	0.21	0.07	0.2
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	7	0.17	0.06	0.18
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	6	0.7	0.34	0.73
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	6	0.36	0.15	0.31
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	6	0.17	0.02	0.18
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	6	0.14	0.02	0.15
(3,682)	1:34:A:SER:H	1:83:A:SER:CB	5	0.13	0.0	0.13
(2,109)	1:24:A:GLY:O	1:28:A:GLY:H	5	0.13	0.01	0.14
(2,83)	1:12:A:TRP:O	1:15:A:PHE:H	5	0.1	0.0	0.1
(2,39)	1:48:A:ALA:O	1:52:A:ALA:N	4	0.23	0.08	0.26
(2,25)	1:36:A:PRO:O	1:40:A:ALA:N	4	0.23	0.1	0.23
(2,69)	1:98:A:LEU:O	1:102:A:LYS:N	4	0.17	0.02	0.18
(3,647)	1:25:A:GLY:H	1:111:A:PRO:CB	4	0.12	0.03	0.11
(2,81)	1:11:A:HIS:O	1:15:A:PHE:H	4	0.12	0.01	0.12
(2,147)	1:47:A:LEU:O	1:51:A:GLY:H	4	0.12	0.01	0.12
(2,111)	1:25:A:GLY:O	1:29:A:TYR:H	4	0.12	0.0	0.12
(3,6)	1:3:A:ASP:H	1:83:A:SER:CB	3	0.57	0.49	0.32
(3,216)	1:24:A:GLY:H	1:83:A:SER:CB	3	0.54	0.09	0.6
(2,7)	1:12:A:TRP:O	1:16:A:GLY:N	3	0.14	0.01	0.15
(2,16)	1:21:A:VAL:O	1:25:A:GLY:N	3	0.13	0.02	0.13
(3,546)	1:5:A:SER:CB	1:96:A:SER:H	3	0.11	0.01	0.12
(2,159)	1:60:A:ARG:O	1:64:A:VAL:H	3	0.1	0.0	0.1
(2,53)	1:66:A:LEU:O	1:70:A:GLY:N	2	0.27	0.06	0.27
(2,56)	1:69:A:SER:O	1:73:A:ALA:N	2	0.25	0.01	0.25
(2,35)	1:44:A:PHE:O	1:48:A:ALA:N	2	0.23	0.05	0.23
(2,18)	1:23:A:SER:O	1:27:A:ILE:N	2	0.2	0.0	0.2
(3,617)	1:23:A:SER:CB	1:53:A:TYR:H	2	0.14	0.03	0.14

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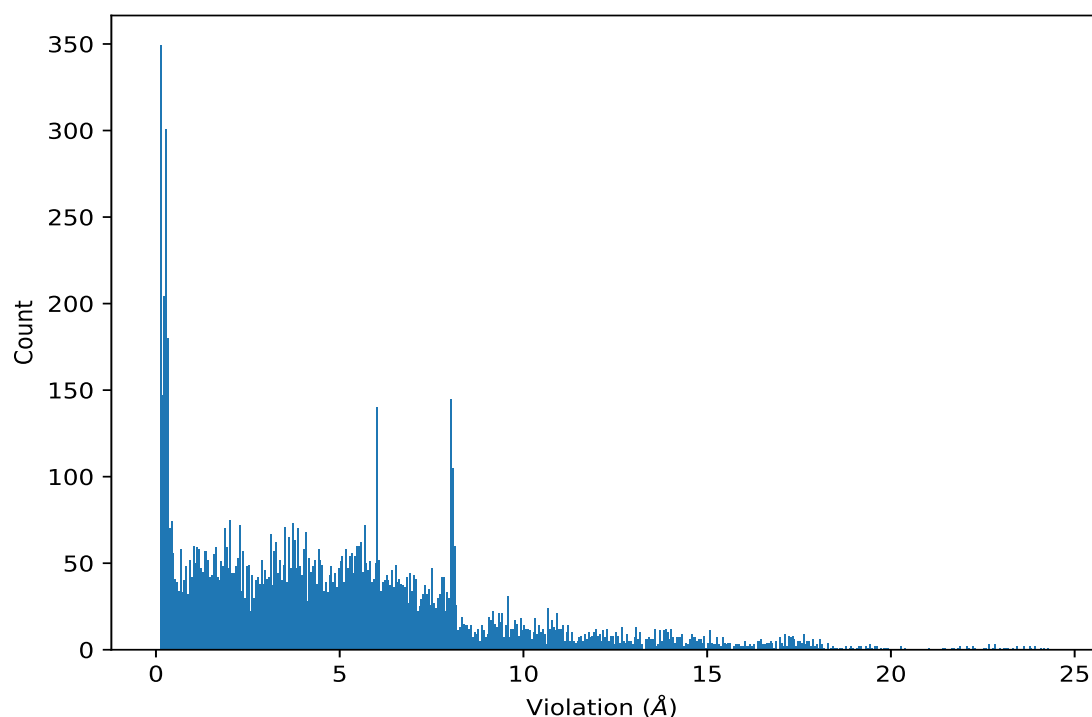
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,155)	1:59:A:PRO:O	1:63:A:TRP:H	2	0.13	0.02	0.13
(2,121)	1:36:A:PRO:O	1:40:A:ALA:H	2	0.12	0.01	0.12
(2,38)	1:47:A:LEU:O	1:51:A:GLY:N	2	0.11	0.01	0.11
(2,105)	1:22:A:ALA:O	1:26:A:ILE:H	2	0.11	0.0	0.11
(2,49)	1:63:A:TRP:O	1:66:A:LEU:N	2	0.11	0.0	0.11
(2,151)	1:49:A:GLY:O	1:53:A:TYR:H	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	4	24.3
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	20	24.19
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	5	24.05
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	16	23.95
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	7	23.94
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	12	23.82
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	13	23.77
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	3	23.76
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	9	23.63
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	1	23.61
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	8	23.41
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	14	23.41
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	11	23.3
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	20	23.2
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	2	23.13
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	9	23.06
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	10	22.97
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	10	22.84
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	11	22.83
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	6	22.8
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	18	22.77
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	15	22.69
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	19	22.68
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	1	22.68
(3,75)	1:5:A:SER:CB	1:109:A:ASN:H	17	22.59
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	13	22.52
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	14	22.25
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	3	22.23
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	15	22.21
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	8	22.1
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	18	22.07
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	17	22.05
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	7	21.9
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	12	21.86
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	4	21.83
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	19	21.74
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	5	21.69
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	6	21.49
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	16	21.41
(3,74)	1:5:A:SER:CB	1:108:A:PHE:H	2	21.04
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	6	20.4
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	4	20.29
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	7	20.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	11	19.94
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	16	19.9
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	20	19.83
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	3	19.73
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	2	19.62
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	17	19.62
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	17	19.56
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	5	19.55
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	12	19.48
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	10	19.44
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	4	19.42
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	13	19.42
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	16	19.36
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	7	19.34
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	5	19.33
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	15	19.2
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	19	19.17
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	2	19.12
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	5	19.12
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	3	19.08
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	14	18.97
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	20	18.93
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	9	18.92
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	6	18.9
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	8	18.79
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	10	18.75
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	13	18.68
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	20	18.6
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	11	18.51
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	8	18.48
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	10	18.43
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	4	18.43
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	1	18.39
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	18	18.29
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	14	18.28
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	6	18.28
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	12	18.27
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	1	18.17
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	9	18.15
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	20	18.1
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	4	18.1
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	4	18.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	5	18.09
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	5	18.08
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	7	18.07
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	19	18.06
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	12	18.05
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	11	18.0
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	7	17.99
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	18	17.96
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	9	17.95
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	8	17.94
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	11	17.93
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	10	17.9
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	19	17.89
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	4	17.88
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	5	17.87
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	13	17.87
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	7	17.86
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	1	17.82
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	11	17.8
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	19	17.79
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	10	17.76
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	3	17.76
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	7	17.75
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	20	17.75
(3,89)	1:7:A:VAL:H	1:111:A:PRO:CB	15	17.74
(3,414)	1:60:A:ARG:H	1:111:A:PRO:CB	13	17.72
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	4	17.71
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	12	17.71
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	3	17.7
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	12	17.69
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	20	17.67
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	18	17.66
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	6	17.64
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	10	17.64
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	14	17.64
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	3	17.63
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	5	17.62
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	2	17.62
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	11	17.61
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	14	17.61
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	10	17.6
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	20	17.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	8	17.58
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	16	17.57
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	17	17.56
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	1	17.54
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	20	17.52
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	3	17.51
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	11	17.5
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	17	17.5
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	7	17.48
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	11	17.47
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	16	17.46
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	6	17.46
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	13	17.45
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	12	17.44
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	17	17.44
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	17	17.4
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	15	17.37
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	9	17.36
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	6	17.36
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	5	17.36
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	5	17.35
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	1	17.34
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	7	17.34
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	12	17.33
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	18	17.33
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	7	17.32
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	8	17.31
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	15	17.31
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	15	17.3
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	8	17.29
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	9	17.28
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	16	17.28
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	10	17.27
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	13	17.27
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	14	17.27
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	20	17.26
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	9	17.24
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	13	17.24
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	14	17.24
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	1	17.24
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	12	17.23
(3,103)	1:11:A:HIS:H	1:111:A:PRO:CB	2	17.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	5	17.21
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	8	17.2
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	11	17.18
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	6	17.17
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	6	17.15
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	18	17.15
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	17	17.15
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	3	17.14
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	7	17.14
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	3	17.13
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	15	17.12
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	14	17.1
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	19	17.1
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	19	17.08
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	2	17.05
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	10	17.04
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	4	17.03
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	13	17.0
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	1	17.0
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	13	16.98
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	1	16.97
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	6	16.97
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	9	16.97
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	12	16.97
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	4	16.96
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	3	16.96
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	13	16.9
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	11	16.89
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	20	16.89
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	9	16.89
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	13	16.88
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	1	16.84
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	14	16.78
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	16	16.78
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	2	16.77
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	12	16.76
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	14	16.73
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	15	16.73
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	6	16.72
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	11	16.71
(3,16)	1:4:A:THR:H	1:111:A:PRO:CB	18	16.7
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	19	16.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	19	16.68
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	2	16.67
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	8	16.66
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	8	16.62
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	11	16.61
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	10	16.6
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	19	16.6
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	17	16.57
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	10	16.55
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	2	16.55
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	19	16.54
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	20	16.52
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	14	16.5
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	13	16.49
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	17	16.48
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	12	16.47
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	16	16.46
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	15	16.46
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	12	16.45
(3,95)	1:10:A:LEU:H	1:111:A:PRO:CB	9	16.44
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	6	16.43
(3,76)	1:5:A:SER:CB	1:110:A:ARG:H	2	16.42
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	19	16.41
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	4	16.41
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	7	16.39
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	18	16.37
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	15	16.36
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	8	16.35
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	18	16.35
(3,77)	1:5:A:SER:H	1:111:A:PRO:CB	16	16.28
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	1	16.28
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	10	16.28
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	8	16.24
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	19	16.23
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	19	16.19
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	11	16.17
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	16	16.16
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	3	16.12
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	10	16.11
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	4	16.07
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	20	16.05
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	9	16.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	13	16.03
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	16	16.03
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	18	16.02
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	15	16.0
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	9	15.97
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	1	15.96
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	19	15.9
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	16	15.9
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	20	15.89
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	18	15.87
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	4	15.86
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	3	15.84
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	1	15.83
(3,73)	1:5:A:SER:CB	1:106:A:SER:H	18	15.8
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	16	15.79
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	5	15.78
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	6	15.77
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	16	15.72
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	18	15.71
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	13	15.64
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	10	15.63
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	12	15.62
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	10	15.61
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	16	15.59
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	19	15.59
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	17	15.57
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	19	15.55
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	7	15.54
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	10	15.54
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	2	15.52
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	3	15.49
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	4	15.49
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	2	15.48
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	14	15.46
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	9	15.45
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	8	15.45
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	19	15.45
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	15	15.43
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	15	15.43
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	14	15.4
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	7	15.4
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	9	15.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	3	15.36
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	4	15.35
(3,78)	1:5:A:SER:CB	1:112:A:HIS:H	2	15.34
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	18	15.32
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	12	15.29
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	10	15.28
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	20	15.28
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	14	15.28
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	17	15.27
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	10	15.27
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	11	15.25
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	6	15.23
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	10	15.22
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	8	15.21
(3,72)	1:5:A:SER:CB	1:105:A:VAL:H	2	15.17
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	5	15.16
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	8	15.16
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	11	15.14
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	15	15.13
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	4	15.13
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	9	15.11
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	4	15.1
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	7	15.09
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	17	15.09
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	14	15.09
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	3	15.09
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	16	15.08
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	3	15.07
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	17	15.07
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	1	15.06
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	16	15.06
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	9	15.06
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	15	15.04
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	10	15.03
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	12	15.01
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	17	15.0
(3,85)	1:6:A:SER:H	1:111:A:PRO:CB	15	14.96
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	7	14.95
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	5	14.95
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	1	14.95
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	2	14.94
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	18	14.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	5	14.93
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	15	14.91
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	17	14.9
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	8	14.89
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	6	14.88
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	19	14.88
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	7	14.86
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	5	14.85
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	7	14.84
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	10	14.84
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	20	14.81
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	12	14.8
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	16	14.8
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	3	14.79
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	1	14.79
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	20	14.77
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	9	14.76
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	11	14.76
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	8	14.75
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	17	14.74
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	5	14.73
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	18	14.72
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	9	14.72
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	7	14.72
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	14	14.7
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	9	14.69
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	8	14.69
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	16	14.68
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	4	14.67
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	5	14.66
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	16	14.66
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	14	14.64
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	2	14.64
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	8	14.64
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	6	14.63
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	11	14.63
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	13	14.63
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	1	14.61
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	1	14.6
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	18	14.6
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	2	14.6
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	19	14.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	1	14.59
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	5	14.59
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	11	14.58
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	20	14.57
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	15	14.56
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	8	14.54
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	10	14.53
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	13	14.53
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	16	14.52
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	3	14.51
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	1	14.51
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	6	14.48
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	13	14.48
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	11	14.47
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	14	14.42
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	7	14.41
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	19	14.41
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	8	14.4
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	18	14.37
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	5	14.36
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	2	14.35
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	2	14.35
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	12	14.35
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	2	14.34
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	3	14.34
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	9	14.32
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	6	14.32
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	14	14.32
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	6	14.31
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	18	14.29
(3,418)	1:61:A:ASN:H	1:111:A:PRO:CB	18	14.29
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	11	14.29
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	7	14.28
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	4	14.27
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	15	14.27
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	14	14.26
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	20	14.24
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	17	14.24
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	17	14.24
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	12	14.23
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	15	14.22
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	9	14.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	17	14.21
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	6	14.18
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	6	14.17
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	12	14.17
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	6	14.17
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	19	14.16
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	18	14.16
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	3	14.15
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	19	14.12
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	11	14.12
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	13	14.11
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	16	14.11
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	5	14.1
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	13	14.09
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	1	14.09
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	2	14.08
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	7	14.08
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	20	14.05
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	12	14.05
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	4	14.04
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	3	14.04
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	15	14.04
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	5	14.04
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	10	14.01
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	7	14.01
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	11	14.01
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	19	14.0
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	18	14.0
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	11	14.0
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	3	14.0
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	2	14.0
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	14	13.98
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	4	13.98
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	15	13.98
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	12	13.98
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	15	13.97
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	3	13.96
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	2	13.95
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	4	13.95
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	11	13.95
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	17	13.95
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	6	13.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	9	13.94
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	6	13.94
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	3	13.93
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	9	13.93
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	17	13.91
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	8	13.89
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	16	13.89
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	16	13.89
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	8	13.88
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	6	13.88
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	10	13.88
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	19	13.88
(3,8)	1:3:A:ASP:H	1:111:A:PRO:CB	2	13.88
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	9	13.87
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	13	13.87
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	19	13.86
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	1	13.86
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	16	13.85
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	1	13.85
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	5	13.85
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	13	13.83
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	19	13.82
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	11	13.82
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	14	13.82
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	7	13.81
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	19	13.81
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	12	13.8
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	9	13.8
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	19	13.79
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	8	13.77
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	8	13.77
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	19	13.76
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	1	13.75
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	17	13.74
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	11	13.74
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	3	13.73
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	2	13.73
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	9	13.72
(3,91)	1:8:A:VAL:H	1:111:A:PRO:CB	15	13.72
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	10	13.71
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	20	13.71
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	13	13.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	4	13.71
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	14	13.71
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	16	13.7
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	17	13.7
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	3	13.68
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	17	13.61
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	6	13.61
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	4	13.59
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	13	13.59
(3,257)	1:32:A:ALA:H	1:69:A:SER:CB	18	13.59
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	15	13.58
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	18	13.58
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	20	13.58
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	13	13.58
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	4	13.57
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	10	13.57
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	8	13.57
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	19	13.57
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	1	13.56
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	12	13.54
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	14	13.54
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	3	13.52
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	19	13.51
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	11	13.51
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	12	13.5
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	8	13.49
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	6	13.48
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	11	13.48
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	6	13.48
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	15	13.46
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	15	13.46
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	9	13.45
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	2	13.45
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	7	13.43
(3,2)	1:3:A:ASP:H	1:32:A:ALA:CB	18	13.43
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	13	13.42
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	10	13.42
(3,264)	1:32:A:ALA:CB	1:76:A:MET:H	20	13.41
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	18	13.39
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	13	13.38
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	12	13.38
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	17	13.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	20	13.37
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	14	13.36
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	5	13.34
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	13	13.34
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	14	13.33
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	10	13.33
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	18	13.32
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	5	13.31
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	6	13.24
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	16	13.22
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	5	13.22
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	4	13.19
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	10	13.19
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	15	13.19
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	10	13.18
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	4	13.17
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	17	13.17
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	2	13.16
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	5	13.16
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	18	13.16
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	18	13.16
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	4	13.14
(3,455)	1:69:A:SER:CB	1:108:A:PHE:H	13	13.14
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	1	13.13
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	3	13.12
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	20	13.12
(3,453)	1:69:A:SER:CB	1:105:A:VAL:H	20	13.11
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	3	13.1
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	2	13.1
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	8	13.09
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	16	13.09
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	15	13.09
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	11	13.09
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	11	13.08
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	15	13.08
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	5	13.08
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	9	13.08
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	2	13.07
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	1	13.07
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	12	13.06
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	10	13.04
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	7	13.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	3	13.02
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	4	13.02
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	7	13.01
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	15	13.01
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	10	13.01
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	17	12.98
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	16	12.98
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	14	12.98
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	9	12.94
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	12	12.94
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	7	12.94
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	5	12.94
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	5	12.91
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	9	12.89
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	12	12.87
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	20	12.87
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	2	12.86
(3,403)	1:56:A:SER:CB	1:106:A:SER:H	4	12.86
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	2	12.85
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	1	12.85
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	13	12.85
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	17	12.84
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	1	12.83
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	1	12.82
(3,260)	1:32:A:ALA:CB	1:72:A:LEU:H	18	12.82
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	20	12.82
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	19	12.81
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	1	12.78
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	8	12.78
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	6	12.78
(3,248)	1:32:A:ALA:CB	1:60:A:ARG:H	9	12.76
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	15	12.73
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	7	12.72
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	8	12.72
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	7	12.72
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	14	12.71
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	16	12.7
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	17	12.7
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	2	12.7
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	3	12.69
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	16	12.69
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	16	12.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	6	12.67
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	15	12.67
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	17	12.66
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	10	12.65
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	10	12.65
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	9	12.65
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	4	12.65
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	5	12.64
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	14	12.61
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	17	12.61
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	7	12.61
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	20	12.6
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	15	12.6
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	7	12.6
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	1	12.58
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	15	12.58
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	16	12.57
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	16	12.56
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	2	12.55
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	20	12.54
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	5	12.53
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	19	12.53
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	5	12.52
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	19	12.52
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	12	12.51
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	7	12.5
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	3	12.5
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	5	12.5
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	8	12.5
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	16	12.48
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	14	12.48
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	18	12.47
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	11	12.45
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	20	12.43
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	13	12.43
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	14	12.42
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	16	12.42
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	10	12.41
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	11	12.4
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	13	12.4
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	14	12.39
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	1	12.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	12	12.39
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	14	12.39
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	3	12.37
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	3	12.36
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	17	12.36
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	15	12.36
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	8	12.35
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	1	12.33
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	16	12.33
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	6	12.32
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	7	12.32
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	17	12.29
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	3	12.29
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	11	12.29
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	8	12.29
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	8	12.28
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	15	12.28
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	19	12.27
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	2	12.27
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	6	12.26
(3,232)	1:30:A:VAL:H	1:69:A:SER:CB	10	12.26
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	13	12.25
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	12	12.25
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	10	12.24
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	1	12.24
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	20	12.24
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	14	12.23
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	16	12.23
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	12	12.23
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	4	12.22
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	2	12.2
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	1	12.2
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	11	12.2
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	10	12.19
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	7	12.18
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	4	12.17
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	11	12.17
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	18	12.17
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	11	12.16
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	14	12.15
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	6	12.15
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	17	12.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	8	12.13
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	8	12.12
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	17	12.12
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	6	12.12
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	7	12.1
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	4	12.1
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	2	12.09
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	3	12.09
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	17	12.09
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	11	12.08
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	17	12.07
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	13	12.06
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	3	12.06
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	9	12.04
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	9	12.04
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	14	12.04
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	2	12.04
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	5	12.03
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	6	12.03
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	18	12.02
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	15	12.02
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	9	11.99
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	12	11.99
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	19	11.99
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	1	11.99
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	6	11.98
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	9	11.97
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	19	11.97
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	20	11.97
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	3	11.97
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	12	11.96
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	19	11.96
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	19	11.96
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	7	11.95
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	11	11.95
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	14	11.94
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	18	11.93
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	19	11.93
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	5	11.93
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	4	11.93
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	12	11.93
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	16	11.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,406)	1:56:A:SER:CB	1:110:A:ARG:H	4	11.91
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	4	11.88
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	17	11.88
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	14	11.88
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	16	11.88
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	12	11.88
(3,454)	1:69:A:SER:CB	1:106:A:SER:H	18	11.87
(3,413)	1:60:A:ARG:H	1:96:A:SER:CB	9	11.87
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	5	11.87
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	5	11.85
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	13	11.84
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	19	11.83
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	13	11.83
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	2	11.83
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	3	11.82
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	20	11.8
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	6	11.79
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	6	11.78
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	9	11.77
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	19	11.77
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	7	11.77
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	4	11.77
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	12	11.77
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	11	11.76
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	15	11.76
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	7	11.76
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	15	11.74
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	14	11.74
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	12	11.73
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	17	11.73
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	20	11.72
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	10	11.71
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	12	11.7
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	18	11.69
(3,426)	1:64:A:VAL:H	1:111:A:PRO:CB	18	11.68
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	2	11.68
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	6	11.67
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	6	11.67
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	12	11.66
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	3	11.66
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	10	11.66
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	20	11.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	14	11.63
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	15	11.63
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	20	11.62
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	5	11.61
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	12	11.6
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	5	11.6
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	1	11.6
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	9	11.59
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	20	11.59
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	20	11.57
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	18	11.56
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	17	11.55
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	4	11.54
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	2	11.54
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	7	11.53
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	6	11.52
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	20	11.52
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	1	11.51
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	5	11.5
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	16	11.49
(3,434)	1:67:A:ALA:H	1:111:A:PRO:CB	13	11.48
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	13	11.48
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	20	11.47
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	13	11.46
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	11	11.45
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	4	11.44
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	10	11.4
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	8	11.4
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	8	11.39
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	4	11.39
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	8	11.38
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	19	11.38
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	12	11.36
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	8	11.33
(3,402)	1:56:A:SER:CB	1:105:A:VAL:H	4	11.33
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	1	11.33
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	6	11.33
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	20	11.33
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	20	11.32
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	3	11.31
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	20	11.31
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	2	11.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	9	11.3
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	20	11.29
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	10	11.28
(3,259)	1:32:A:ALA:CB	1:71:A:THR:H	18	11.26
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	7	11.26
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	16	11.25
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	4	11.24
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	16	11.24
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	8	11.24
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	15	11.24
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	13	11.24
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	9	11.23
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	18	11.23
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	5	11.23
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	12	11.22
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	14	11.22
(3,251)	1:32:A:ALA:CB	1:63:A:TRP:H	9	11.22
(3,93)	1:10:A:LEU:H	1:83:A:SER:CB	9	11.22
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	17	11.21
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	10	11.21
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	13	11.2
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	18	11.2
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	16	11.2
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	15	11.19
(3,263)	1:32:A:ALA:CB	1:75:A:ILE:H	11	11.19
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	16	11.19
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	4	11.18
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	10	11.18
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	1	11.15
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	3	11.15
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	10	11.14
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	18	11.14
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	11	11.13
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	18	11.12
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	6	11.11
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	14	11.1
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	3	11.09
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	5	11.08
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	11	11.08
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	1	11.08
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	3	11.08
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	2	11.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	1	11.08
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	13	11.08
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	2	11.06
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	6	11.06
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	12	11.05
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	4	11.05
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	18	11.05
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	9	11.04
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	10	11.04
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	15	11.03
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	7	11.03
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	12	11.03
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	11	11.02
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	17	11.02
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	19	11.02
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	4	11.01
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	6	11.01
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	20	11.01
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	3	11.0
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	7	10.99
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	5	10.99
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	16	10.99
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	8	10.99
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	5	10.99
(3,256)	1:32:A:ALA:CB	1:69:A:SER:H	5	10.98
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	9	10.97
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	14	10.96
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	19	10.96
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	13	10.96
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	17	10.96
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	15	10.96
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	1	10.95
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	2	10.95
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	17	10.94
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	2	10.94
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	8	10.94
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	20	10.94
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	17	10.93
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	9	10.93
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	18	10.93
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	1	10.92
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	6	10.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	15	10.92
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	10	10.92
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	9	10.91
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	1	10.91
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	15	10.91
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	4	10.9
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	4	10.9
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	19	10.9
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	2	10.9
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	9	10.9
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	2	10.89
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	1	10.89
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	20	10.89
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	14	10.88
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	8	10.87
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	8	10.87
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	4	10.87
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	16	10.87
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	10	10.86
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	11	10.86
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	10	10.86
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	14	10.85
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	5	10.84
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	9	10.84
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	14	10.84
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	5	10.84
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	18	10.84
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	7	10.81
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	17	10.81
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	19	10.81
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	9	10.8
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	15	10.8
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	14	10.8
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	19	10.8
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	2	10.79
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	11	10.79
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	2	10.79
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	18	10.78
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	14	10.78
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	3	10.78
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	15	10.78
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	17	10.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,420)	1:62:A:VAL:H	1:111:A:PRO:CB	13	10.77
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	7	10.77
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	20	10.76
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	10	10.76
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	10	10.76
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	16	10.76
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	14	10.75
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	17	10.75
(3,250)	1:32:A:ALA:CB	1:62:A:VAL:H	9	10.75
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	10	10.74
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	13	10.74
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	4	10.74
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	5	10.74
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	12	10.74
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	19	10.73
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	18	10.73
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	5	10.72
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	10	10.72
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	8	10.72
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	5	10.71
(3,227)	1:28:A:GLY:H	1:69:A:SER:CB	3	10.71
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	9	10.7
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	3	10.7
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	12	10.7
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	17	10.7
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	20	10.7
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	14	10.69
(3,423)	1:63:A:TRP:H	1:111:A:PRO:CB	13	10.69
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	10	10.69
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	15	10.69
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	8	10.69
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	10	10.69
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	14	10.68
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	19	10.67
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	13	10.67
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	4	10.67
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	17	10.66
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	10	10.66
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	16	10.66
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	7	10.66
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	6	10.66
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	16	10.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	11	10.65
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	14	10.65
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	20	10.65
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	15	10.62
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	5	10.61
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	6	10.61
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	12	10.59
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	1	10.59
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	15	10.57
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	9	10.57
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	8	10.56
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	16	10.56
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	10	10.56
(3,254)	1:32:A:ALA:CB	1:67:A:ALA:H	9	10.56
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	1	10.55
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	16	10.54
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	9	10.54
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	7	10.54
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	19	10.53
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	4	10.53
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	7	10.53
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	2	10.51
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	3	10.51
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	11	10.51
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	3	10.5
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	4	10.5
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	18	10.5
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	18	10.49
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	12	10.49
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	10	10.48
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	17	10.48
(3,456)	1:69:A:SER:CB	1:109:A:ASN:H	11	10.48
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	14	10.48
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	4	10.47
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	8	10.47
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	10	10.46
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	16	10.46
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	15	10.45
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	19	10.45
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	15	10.45
(3,236)	1:31:A:LYS:H	1:69:A:SER:CB	3	10.45
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	19	10.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	11	10.44
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	1	10.43
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	19	10.43
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	4	10.42
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	4	10.41
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	19	10.41
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	11	10.41
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	5	10.41
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	7	10.4
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	10	10.38
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	14	10.38
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	3	10.38
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	17	10.38
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	6	10.38
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	13	10.37
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	2	10.37
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	7	10.36
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	16	10.36
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	14	10.35
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	9	10.35
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	5	10.35
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	16	10.33
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	8	10.33
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	12	10.33
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	3	10.32
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	2	10.32
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	15	10.32
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	3	10.32
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	6	10.32
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	16	10.31
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	16	10.31
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	20	10.31
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	6	10.31
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	13	10.31
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	16	10.3
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	1	10.3
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	15	10.29
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	2	10.28
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	17	10.27
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	8	10.27
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	18	10.27
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	11	10.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	15	10.26
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	7	10.26
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	17	10.25
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	13	10.25
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	12	10.24
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	14	10.24
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	7	10.22
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	2	10.21
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	16	10.21
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	13	10.21
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	20	10.2
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	7	10.2
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	19	10.2
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	20	10.19
(3,289)	1:34:A:SER:H	1:69:A:SER:CB	12	10.18
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	5	10.17
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	4	10.17
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	4	10.17
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	2	10.17
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	18	10.15
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	2	10.15
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	19	10.14
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	10	10.14
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	8	10.14
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	18	10.14
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	19	10.13
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	6	10.13
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	1	10.13
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	7	10.12
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	8	10.12
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	20	10.12
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	12	10.12
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	15	10.11
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	19	10.1
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	20	10.1
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	20	10.1
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	2	10.09
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	14	10.09
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	3	10.09
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	5	10.08
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	12	10.08
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	6	10.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	15	10.06
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	15	10.06
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	11	10.05
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	15	10.04
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	18	10.04
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	8	10.03
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	20	10.03
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	8	10.02
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	16	10.02
(3,404)	1:56:A:SER:CB	1:108:A:PHE:H	3	10.02
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	13	10.01
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	3	10.0
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	13	10.0
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	9	10.0
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	14	10.0
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	1	10.0
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	4	10.0
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	12	9.99
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	6	9.99
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	18	9.98
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	16	9.98
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	19	9.97
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	1	9.97
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	1	9.97
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	18	9.97
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	12	9.96
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	11	9.96
(3,121)	1:14:A:GLY:H	1:111:A:PRO:CB	7	9.96
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	10	9.95
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	7	9.95
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	3	9.95
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	10	9.94
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	6	9.94
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	7	9.94
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	5	9.94
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	16	9.93
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	11	9.93
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	11	9.93
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	19	9.92
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	15	9.91
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	6	9.91
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	8	9.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	19	9.91
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	14	9.91
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	6	9.9
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	2	9.9
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	10	9.89
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	20	9.89
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	15	9.89
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	8	9.88
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	7	9.87
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	14	9.87
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	13	9.86
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	14	9.86
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	9	9.85
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	2	9.84
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	12	9.84
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	3	9.84
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	19	9.84
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	11	9.83
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	11	9.83
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	14	9.82
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	2	9.82
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	7	9.82
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	1	9.82
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	5	9.81
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	18	9.8
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	18	9.8
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	17	9.8
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	20	9.79
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	6	9.79
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	17	9.79
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	2	9.79
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	3	9.78
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	2	9.78
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	10	9.77
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	7	9.77
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	1	9.77
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	8	9.77
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	16	9.77
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	1	9.77
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	4	9.76
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	5	9.75
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	18	9.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	4	9.75
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	17	9.75
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	17	9.74
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	3	9.73
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	11	9.72
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	6	9.72
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	20	9.72
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	7	9.72
(3,374)	1:53:A:TYR:H	1:111:A:PRO:CB	15	9.72
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	20	9.71
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	9	9.71
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	2	9.71
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	4	9.71
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	19	9.71
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	13	9.7
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	14	9.69
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	1	9.67
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	12	9.67
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	13	9.67
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	9	9.67
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	17	9.66
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	11	9.66
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	4	9.66
(3,262)	1:32:A:ALA:CB	1:74:A:GLY:H	20	9.66
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	20	9.66
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	4	9.65
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	8	9.64
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	8	9.63
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	13	9.62
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	1	9.62
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	5	9.62
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	17	9.62
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	11	9.61
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	4	9.6
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	14	9.6
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	11	9.6
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	8	9.59
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	14	9.59
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	5	9.59
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	4	9.59
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	15	9.58
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	4	9.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	17	9.58
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	6	9.58
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	17	9.58
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	9	9.58
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	4	9.58
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	7	9.58
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	17	9.58
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	1	9.57
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	13	9.57
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	13	9.57
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	12	9.56
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	8	9.56
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	7	9.56
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	12	9.56
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	18	9.55
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	17	9.55
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	10	9.55
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	16	9.55
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	20	9.55
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	6	9.55
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	11	9.55
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	13	9.55
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	5	9.54
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	7	9.54
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	16	9.54
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	13	9.54
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	6	9.53
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	18	9.53
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	12	9.52
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	14	9.52
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	5	9.52
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	13	9.52
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	19	9.51
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	2	9.51
(3,255)	1:32:A:ALA:CB	1:68:A:THR:H	5	9.5
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	10	9.5
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	2	9.49
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	18	9.48
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	4	9.48
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	9	9.47
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	6	9.47
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	11	9.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	11	9.46
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	4	9.45
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	18	9.43
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	6	9.43
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	8	9.43
(3,417)	1:61:A:ASN:H	1:96:A:SER:CB	5	9.43
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	13	9.43
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	14	9.43
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	16	9.42
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	12	9.42
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	18	9.42
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	16	9.42
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	20	9.42
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	3	9.41
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	15	9.41
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	11	9.41
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	18	9.41
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	5	9.4
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	14	9.4
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	12	9.4
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	12	9.4
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	20	9.4
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	8	9.39
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	15	9.39
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	16	9.39
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	3	9.38
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	14	9.38
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	1	9.38
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	5	9.38
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	10	9.37
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	19	9.37
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	9	9.37
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	13	9.37
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	7	9.36
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	4	9.36
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	11	9.36
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	14	9.36
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	1	9.35
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	8	9.34
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	6	9.33
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	15	9.33
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	10	9.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	9	9.33
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	19	9.33
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	7	9.33
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	11	9.33
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	8	9.33
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	1	9.32
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	20	9.32
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	8	9.32
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	19	9.31
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	13	9.31
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	17	9.31
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	18	9.31
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	3	9.31
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	4	9.3
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	5	9.3
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	5	9.3
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	10	9.3
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	17	9.29
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	3	9.29
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	19	9.29
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	15	9.28
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	9	9.28
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	10	9.28
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	19	9.27
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	17	9.27
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	20	9.26
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	7	9.26
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	3	9.26
(3,102)	1:11:A:HIS:H	1:96:A:SER:CB	9	9.26
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	9	9.25
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	13	9.23
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	16	9.23
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	3	9.23
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	1	9.23
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	2	9.22
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	17	9.22
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	3	9.22
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	5	9.22
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	7	9.22
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	16	9.22
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	15	9.22
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	8	9.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	11	9.21
(3,422)	1:63:A:TRP:H	1:96:A:SER:CB	4	9.21
(3,252)	1:32:A:ALA:CB	1:64:A:VAL:H	9	9.21
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	20	9.2
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	13	9.2
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	10	9.2
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	7	9.2
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	1	9.2
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	12	9.2
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	6	9.19
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	14	9.18
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	6	9.18
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	6	9.18
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	19	9.17
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	19	9.17
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	16	9.17
(3,428)	1:65:A:PHE:H	1:111:A:PRO:CB	18	9.16
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	13	9.16
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	9	9.16
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	8	9.16
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	18	9.16
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	17	9.16
(3,457)	1:69:A:SER:CB	1:110:A:ARG:H	12	9.15
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	16	9.15
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	3	9.15
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	19	9.14
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	9	9.13
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	9	9.13
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	8	9.12
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	6	9.12
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	2	9.12
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	13	9.12
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	7	9.12
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	20	9.12
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	19	9.11
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	12	9.11
(3,258)	1:32:A:ALA:CB	1:70:A:GLY:H	18	9.11
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	16	9.11
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	15	9.11
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	1	9.11
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	2	9.1
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	14	9.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	8	9.09
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	11	9.09
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	1	9.09
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	13	9.09
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	2	9.08
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	1	9.08
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	11	9.08
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	13	9.08
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	12	9.07
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	3	9.07
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	15	9.07
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	17	9.07
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	5	9.06
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	5	9.05
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	6	9.05
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	10	9.05
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	11	9.05
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	6	9.05
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	8	9.05
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	16	9.04
(3,253)	1:32:A:ALA:CB	1:66:A:LEU:H	9	9.04
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	14	9.04
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	19	9.02
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	14	9.01
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	15	9.01
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	15	9.0
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	12	9.0
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	5	9.0
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	4	8.99
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	8	8.99
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	16	8.98
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	2	8.98
(3,285)	1:33:A:GLY:H	1:69:A:SER:CB	12	8.97
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	1	8.96
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	8	8.96
(3,105)	1:12:A:TRP:H	1:111:A:PRO:CB	9	8.95
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	17	8.94
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	16	8.94
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	20	8.93
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	1	8.93
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	8	8.93
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	3	8.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	16	8.91
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	1	8.9
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	10	8.9
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	11	8.9
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	13	8.89
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	5	8.89
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	16	8.88
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	3	8.88
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	9	8.88
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	17	8.87
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	3	8.86
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	1	8.86
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	1	8.86
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	19	8.85
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	3	8.85
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	7	8.85
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	5	8.85
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	8	8.85
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	8	8.84
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	18	8.83
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	12	8.82
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	15	8.82
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	2	8.81
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	12	8.79
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	7	8.79
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	6	8.79
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	10	8.78
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	12	8.78
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	9	8.77
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	18	8.76
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	3	8.76
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	2	8.75
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	2	8.75
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	17	8.75
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	11	8.75
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	18	8.74
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	10	8.74
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	15	8.74
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	11	8.73
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	13	8.73
(3,437)	1:68:A:THR:H	1:111:A:PRO:CB	18	8.72
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	14	8.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	10	8.71
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	14	8.71
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	9	8.7
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	9	8.69
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	8	8.69
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	20	8.68
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	18	8.68
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	12	8.67
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	20	8.66
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	13	8.66
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	10	8.65
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	3	8.65
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	1	8.64
(3,113)	1:13:A:PHE:H	1:111:A:PRO:CB	9	8.64
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	5	8.63
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	20	8.62
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	4	8.61
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	15	8.6
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	14	8.6
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	4	8.59
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	12	8.59
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	11	8.58
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	4	8.58
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	14	8.57
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	9	8.57
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	8	8.57
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	6	8.57
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	13	8.56
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	19	8.56
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	11	8.56
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	7	8.56
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	13	8.55
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	4	8.55
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	19	8.54
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	9	8.54
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	17	8.54
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	18	8.53
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	20	8.53
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	12	8.53
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	1	8.51
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	3	8.51
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	1	8.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	2	8.5
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	13	8.5
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	2	8.5
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	3	8.49
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	7	8.49
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	7	8.49
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	12	8.49
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	17	8.48
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	10	8.48
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	16	8.48
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	8	8.48
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	3	8.48
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	2	8.47
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	2	8.47
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	9	8.46
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	1	8.46
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	11	8.46
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	20	8.45
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	4	8.44
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	17	8.44
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	1	8.44
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	4	8.42
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	5	8.42
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	18	8.42
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	18	8.42
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	3	8.42
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	5	8.42
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	18	8.4
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	6	8.4
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	4	8.4
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	8	8.4
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	6	8.39
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	17	8.39
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	19	8.39
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	15	8.38
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	10	8.37
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	10	8.37
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	3	8.37
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	4	8.37
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	6	8.36
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	9	8.36
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	11	8.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	10	8.36
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	7	8.35
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	3	8.35
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	10	8.35
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	10	8.34
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	12	8.34
(3,425)	1:64:A:VAL:H	1:96:A:SER:CB	17	8.34
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	5	8.34
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	6	8.34
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	17	8.34
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	8	8.34
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	4	8.33
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	15	8.33
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	6	8.32
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	2	8.32
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	12	8.32
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	7	8.31
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	14	8.31
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	18	8.31
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	5	8.31
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	1	8.3
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	13	8.3
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	16	8.3
(3,459)	1:69:A:SER:CB	1:112:A:HIS:H	13	8.29
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	8	8.28
(3,377)	1:54:A:GLN:H	1:96:A:SER:CB	19	8.28
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	11	8.28
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	13	8.28
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	2	8.28
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	19	8.28
(3,407)	1:56:A:SER:CB	1:112:A:HIS:H	7	8.27
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	5	8.26
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	20	8.26
(3,261)	1:32:A:ALA:CB	1:73:A:ALA:H	18	8.25
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	14	8.25
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	1	8.25
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	12	8.24
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	10	8.24
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	10	8.23
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	4	8.23
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	2	8.23
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	11	8.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	17	8.22
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	6	8.21
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	15	8.21
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	16	8.21
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	17	8.21
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	20	8.2
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	2	8.2
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	12	8.2
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	11	8.2
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	14	8.19
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	9	8.19
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	11	8.18
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	20	8.18
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	9	8.18
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	10	8.18
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	15	8.17
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	18	8.17
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	15	8.17
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	14	8.17
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	14	8.17
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	15	8.16
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	9	8.16
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	14	8.16
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	18	8.16
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	11	8.16
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	20	8.16
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	18	8.15
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	13	8.15
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	2	8.15
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	8	8.15
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	9	8.15
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	16	8.14
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	6	8.14
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	14	8.14
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	4	8.14
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	15	8.14
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	19	8.14
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	12	8.14
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	9	8.14
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	18	8.14
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	12	8.14
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	10	8.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	6	8.14
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	15	8.13
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	3	8.13
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	7	8.13
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	5	8.13
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	14	8.13
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	20	8.13
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	19	8.13
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	8	8.13
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	5	8.12
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	8	8.12
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	4	8.12
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	5	8.12
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	17	8.12
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	6	8.12
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	8	8.12
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	18	8.12
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	12	8.12
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	20	8.12
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	9	8.12
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	14	8.11
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	14	8.11
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	2	8.11
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	16	8.11
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	17	8.11
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	10	8.11
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	20	8.11
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	13	8.11
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	7	8.11
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	12	8.11
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	16	8.11
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	18	8.11
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	5	8.11
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	10	8.11
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	11	8.11
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	13	8.11
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	19	8.11
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	2	8.11
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	2	8.1
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	1	8.1
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	11	8.1
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	9	8.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	15	8.1
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	12	8.1
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	14	8.1
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	4	8.1
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	19	8.1
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	7	8.1
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	13	8.1
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	2	8.09
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	2	8.09
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	9	8.09
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	10	8.09
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	12	8.09
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	3	8.09
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	17	8.09
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	17	8.09
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	5	8.09
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	9	8.09
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	8	8.09
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	9	8.09
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	10	8.09
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	20	8.09
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	8	8.09
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	18	8.09
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	19	8.09
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	16	8.08
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	6	8.08
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	7	8.08
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	8	8.08
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	19	8.08
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	8	8.08
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	3	8.08
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	12	8.08
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	4	8.08
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	13	8.08
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	18	8.08
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	19	8.08
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	3	8.08
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	7	8.08
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	20	8.08
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	3	8.08
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	7	8.08
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	16	8.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	17	8.08
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	10	8.08
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	18	8.08
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	17	8.07
(3,368)	1:51:A:GLY:H	1:111:A:PRO:CB	14	8.07
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	3	8.07
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	11	8.07
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	2	8.07
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	15	8.07
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	4	8.07
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	10	8.07
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	9	8.07
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	10	8.07
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	19	8.07
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	12	8.07
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	9	8.07
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	16	8.07
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	18	8.07
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	15	8.07
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	17	8.07
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	12	8.07
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	14	8.07
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	8	8.06
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	12	8.06
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	1	8.06
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	16	8.06
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	4	8.06
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	14	8.06
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	1	8.06
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	6	8.06
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	11	8.06
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	13	8.06
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	6	8.06
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	1	8.06
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	7	8.06
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	11	8.06
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	13	8.06
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	14	8.06
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	1	8.06
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	4	8.06
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	4	8.06
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	4	8.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	6	8.06
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	15	8.06
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	17	8.06
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	19	8.06
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	2	8.05
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	12	8.05
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	19	8.05
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	13	8.05
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	5	8.05
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	9	8.05
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	8	8.05
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	7	8.05
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	19	8.05
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	13	8.05
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	2	8.05
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	11	8.05
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	1	8.05
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	2	8.05
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	10	8.05
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	17	8.05
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	5	8.05
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	3	8.05
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	4	8.05
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	9	8.05
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	8	8.05
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	19	8.05
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	14	8.05
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	19	8.05
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	2	8.04
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	20	8.04
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	12	8.04
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	6	8.04
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	15	8.04
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	3	8.04
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	8	8.04
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	17	8.04
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	7	8.04
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	17	8.04
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	19	8.04
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	8	8.04
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	20	8.04
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	6	8.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	15	8.04
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	15	8.04
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	10	8.04
(3,123)	1:15:A:PHE:H	1:111:A:PRO:CB	7	8.04
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	16	8.04
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	6	8.04
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	13	8.04
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	11	8.04
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	7	8.04
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	20	8.04
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	11	8.04
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	9	8.03
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	16	8.03
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	18	8.03
(3,361)	1:49:A:GLY:H	1:83:A:SER:CB	13	8.03
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	17	8.03
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	18	8.03
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	16	8.03
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	17	8.03
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	3	8.03
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	19	8.03
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	19	8.03
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	15	8.03
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	12	8.03
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	16	8.03
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	12	8.03
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	18	8.03
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	5	8.03
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	6	8.03
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	1	8.03
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	2	8.03
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	7	8.03
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	11	8.03
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	19	8.03
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	14	8.03
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	6	8.03
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	10	8.03
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	16	8.03
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	4	8.02
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	8	8.02
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	9	8.02
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	10	8.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	11	8.02
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	17	8.02
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	8	8.02
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	9	8.02
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	11	8.02
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	18	8.02
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	20	8.02
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	15	8.02
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	1	8.02
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	10	8.02
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	16	8.02
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	2	8.02
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	16	8.02
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	6	8.02
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	17	8.02
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	5	8.02
(3,224)	1:25:A:GLY:H	1:111:A:PRO:CB	6	8.02
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	4	8.02
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	2	8.02
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	3	8.02
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	1	8.02
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	16	8.02
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	7	8.02
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	1	8.02
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	2	8.02
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	2	8.02
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	1	8.02
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	3	8.02
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	9	8.02
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	13	8.02
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	17	8.02
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	2	8.01
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	5	8.01
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	6	8.01
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	13	8.01
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	15	8.01
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	3	8.01
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	11	8.01
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	2	8.01
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	10	8.01
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	19	8.01
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	7	8.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	11	8.01
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	2	8.01
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	16	8.01
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	2	8.01
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	15	8.01
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	11	8.01
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	7	8.01
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	11	8.01
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	15	8.01
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	11	8.01
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	7	8.01
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	14	8.01
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	11	8.01
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	19	8.01
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	19	8.01
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	4	8.01
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	5	8.01
(3,69)	1:5:A:SER:CB	1:96:A:SER:H	14	8.01
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	3	8.01
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	5	8.01
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	16	8.01
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	9	8.01
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	10	8.01
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	4	8.01
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	2	8.01
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	4	8.01
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	8	8.01
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	15	8.01
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	18	8.01
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	20	8.01
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	18	8.0
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	8	8.0
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	7	8.0
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	20	8.0
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	1	8.0
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	2	8.0
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	5	8.0
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	20	8.0
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	5	8.0
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	11	8.0
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	13	8.0
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	9	8.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	11	8.0
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	7	8.0
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	15	8.0
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	2	8.0
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	12	8.0
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	10	7.99
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	8	7.99
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	4	7.99
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	8	7.99
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	19	7.98
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	20	7.98
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	19	7.98
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	17	7.98
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	7	7.98
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	18	7.98
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	6	7.98
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	5	7.98
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	16	7.98
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	1	7.97
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	20	7.97
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	2	7.97
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	10	7.96
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	3	7.96
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	14	7.96
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	14	7.96
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	4	7.96
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	1	7.96
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	6	7.96
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	6	7.95
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	15	7.95
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	2	7.95
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	1	7.95
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	6	7.95
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	10	7.95
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	9	7.95
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	5	7.94
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	9	7.94
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	17	7.94
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	7	7.94
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	8	7.94
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	17	7.94
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	10	7.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,431)	1:66:A:LEU:H	1:111:A:PRO:CB	13	7.93
(3,405)	1:56:A:SER:CB	1:109:A:ASN:H	3	7.93
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	7	7.93
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	4	7.93
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	4	7.93
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	5	7.93
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	16	7.93
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	20	7.93
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	17	7.92
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	7	7.92
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	18	7.92
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	18	7.92
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	7	7.92
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	5	7.91
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	19	7.91
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	6	7.91
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	20	7.91
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	14	7.91
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	16	7.9
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	5	7.9
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	19	7.9
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	18	7.9
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	3	7.9
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	20	7.9
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	19	7.9
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	7	7.9
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	1	7.89
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	12	7.89
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	20	7.89
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	11	7.89
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	13	7.89
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	16	7.89
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	9	7.88
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	6	7.88
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	9	7.88
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	12	7.88
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	13	7.88
(3,471)	1:74:A:GLY:H	1:111:A:PRO:CB	13	7.87
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	20	7.87
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	8	7.87
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	5	7.87
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	18	7.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	17	7.86
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	17	7.86
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	10	7.86
(3,390)	1:56:A:SER:CB	1:78:A:MET:H	14	7.86
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	3	7.86
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	18	7.86
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	7	7.85
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	10	7.85
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	4	7.85
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	13	7.85
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	1	7.85
(3,144)	1:18:A:ALA:H	1:111:A:PRO:CB	6	7.85
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	7	7.85
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	4	7.85
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	5	7.85
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	2	7.84
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	13	7.84
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	15	7.84
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	8	7.84
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	1	7.84
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	11	7.84
(3,10)	1:4:A:THR:H	1:32:A:ALA:CB	18	7.84
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	9	7.83
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	10	7.83
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	8	7.83
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	7	7.83
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	13	7.83
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	4	7.83
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	19	7.82
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	16	7.82
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	4	7.82
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	3	7.82
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	5	7.82
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	10	7.82
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	9	7.82
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	2	7.82
(3,161)	1:22:A:ALA:H	1:111:A:PRO:CB	3	7.82
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	6	7.82
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	11	7.81
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	6	7.81
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	8	7.81
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	16	7.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	6	7.81
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	14	7.81
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	1	7.81
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	8	7.81
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	13	7.81
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	3	7.81
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	2	7.8
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	6	7.8
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	1	7.8
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	11	7.8
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	2	7.8
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	15	7.79
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	15	7.79
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	19	7.79
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	10	7.79
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	13	7.79
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	12	7.79
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	4	7.78
(3,419)	1:62:A:VAL:H	1:96:A:SER:CB	9	7.78
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	9	7.78
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	15	7.78
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	12	7.78
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	14	7.77
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	9	7.77
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	7	7.77
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	17	7.77
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	6	7.77
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	7	7.77
(3,249)	1:32:A:ALA:CB	1:61:A:ASN:H	5	7.77
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	16	7.77
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	13	7.77
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	18	7.77
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	20	7.77
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	15	7.76
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	2	7.76
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	10	7.76
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	14	7.76
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	20	7.76
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	20	7.76
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	19	7.75
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	10	7.75
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	20	7.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	5	7.75
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	15	7.75
(3,210)	1:23:A:SER:CB	1:110:A:ARG:H	4	7.75
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	17	7.75
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	7	7.75
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	4	7.75
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	20	7.74
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	3	7.74
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	12	7.73
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	1	7.73
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	4	7.73
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	4	7.73
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	14	7.73
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	20	7.73
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	14	7.73
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	6	7.73
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	1	7.73
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	12	7.73
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	8	7.72
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	2	7.72
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	5	7.72
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	7	7.72
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	1	7.72
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	14	7.72
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	1	7.72
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	19	7.71
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	2	7.71
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	11	7.71
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	13	7.71
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	15	7.71
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	12	7.7
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	12	7.7
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	16	7.7
(3,290)	1:34:A:SER:H	1:83:A:SER:CB	15	7.7
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	16	7.7
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	19	7.7
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	8	7.7
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	5	7.7
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	18	7.69
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	19	7.69
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	2	7.69
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	15	7.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	16	7.69
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	1	7.69
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	12	7.69
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	16	7.69
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	15	7.69
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	12	7.68
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	19	7.68
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	15	7.68
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	3	7.68
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	10	7.68
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	5	7.67
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	16	7.67
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	5	7.67
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	10	7.67
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	10	7.67
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	4	7.67
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	15	7.67
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	1	7.67
(3,31)	1:5:A:SER:CB	1:33:A:GLY:H	19	7.67
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	2	7.66
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	2	7.65
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	12	7.65
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	13	7.65
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	4	7.65
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	5	7.65
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	20	7.65
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	17	7.64
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	1	7.64
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	16	7.64
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	3	7.64
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	10	7.64
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	14	7.64
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	7	7.63
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	11	7.63
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	1	7.63
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	8	7.63
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	14	7.63
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	19	7.63
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	5	7.63
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	8	7.62
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	20	7.62
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	9	7.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	7	7.62
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	15	7.61
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	13	7.61
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	3	7.61
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	16	7.61
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	9	7.61
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	18	7.61
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	16	7.61
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	3	7.6
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	7	7.6
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	16	7.6
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	7	7.59
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	8	7.59
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	14	7.59
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	5	7.59
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	7	7.59
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	17	7.59
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	20	7.59
(3,7)	1:3:A:ASP:H	1:96:A:SER:CB	5	7.59
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	11	7.58
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	11	7.58
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	15	7.58
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	1	7.57
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	8	7.57
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	14	7.57
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	17	7.57
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	17	7.57
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	14	7.56
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	17	7.56
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	10	7.56
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	10	7.56
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	3	7.56
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	5	7.56
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	5	7.56
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	3	7.56
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	6	7.55
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	17	7.55
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	8	7.55
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	3	7.55
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	9	7.55
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	4	7.55
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	18	7.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	11	7.54
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	19	7.54
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	11	7.54
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	3	7.54
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	16	7.54
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	7	7.54
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	16	7.54
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	19	7.53
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	14	7.53
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	20	7.53
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	2	7.53
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	8	7.53
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	5	7.53
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	5	7.52
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	2	7.52
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	13	7.52
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	19	7.52
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	10	7.52
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	6	7.52
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	5	7.52
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	3	7.51
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	15	7.51
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	10	7.51
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	17	7.51
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	4	7.51
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	11	7.51
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	15	7.51
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	2	7.51
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	20	7.51
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	13	7.51
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	16	7.51
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	4	7.51
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	12	7.51
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	4	7.51
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	9	7.5
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	2	7.5
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	9	7.5
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	2	7.5
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	17	7.5
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	6	7.5
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	16	7.49
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	11	7.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	10	7.49
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	9	7.49
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	2	7.49
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	20	7.49
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	14	7.48
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	18	7.48
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	14	7.48
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	16	7.48
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	5	7.47
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	9	7.47
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	16	7.47
(3,215)	1:24:A:GLY:H	1:69:A:SER:CB	9	7.47
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	5	7.47
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	1	7.46
(3,410)	1:57:A:GLN:H	1:96:A:SER:CB	9	7.46
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	16	7.46
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	3	7.46
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	10	7.46
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	7	7.46
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	8	7.45
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	9	7.45
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	20	7.45
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	18	7.45
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	11	7.45
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	7	7.44
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	14	7.44
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	16	7.44
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	12	7.44
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	20	7.44
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	12	7.44
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	5	7.44
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	16	7.43
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	15	7.43
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	15	7.43
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	1	7.43
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	5	7.43
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	2	7.43
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	9	7.43
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	2	7.43
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	3	7.43
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	12	7.42
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	17	7.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	11	7.42
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	17	7.42
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	19	7.42
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	20	7.42
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	14	7.42
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	19	7.42
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	5	7.42
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	2	7.41
(3,334)	1:46:A:SER:H	1:69:A:SER:CB	18	7.41
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	10	7.41
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	16	7.41
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	15	7.41
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	11	7.41
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	10	7.4
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	8	7.4
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	10	7.4
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	13	7.4
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	19	7.39
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	20	7.39
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	1	7.39
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	9	7.39
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	6	7.39
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	3	7.38
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	15	7.38
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	14	7.38
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	14	7.38
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	17	7.38
(3,96)	1:11:A:HIS:H	1:23:A:SER:CB	15	7.38
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	2	7.38
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	11	7.38
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	2	7.38
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	3	7.37
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	2	7.37
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	4	7.37
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	11	7.37
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	8	7.37
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	4	7.37
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	12	7.37
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	12	7.37
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	17	7.37
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	11	7.37
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	12	7.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	18	7.36
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	9	7.36
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	13	7.36
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	17	7.36
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	6	7.36
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	1	7.36
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	18	7.36
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	5	7.35
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	3	7.35
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	7	7.35
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	13	7.35
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	1	7.35
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	14	7.35
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	12	7.35
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	20	7.35
(3,35)	1:5:A:SER:CB	1:39:A:ALA:H	18	7.35
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	13	7.35
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	1	7.34
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	1	7.34
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	5	7.34
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	18	7.34
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	11	7.34
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	15	7.34
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	11	7.34
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	7	7.34
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	11	7.34
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	7	7.33
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	18	7.33
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	17	7.33
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	7	7.33
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	18	7.33
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	8	7.32
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	16	7.32
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	14	7.32
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	17	7.32
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	20	7.32
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	13	7.32
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	4	7.31
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	3	7.31
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	4	7.31
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	9	7.31
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	5	7.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	9	7.31
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	13	7.31
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	20	7.3
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	10	7.3
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	8	7.3
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	9	7.3
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	4	7.29
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	20	7.29
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	16	7.29
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	9	7.28
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	9	7.28
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	3	7.28
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	17	7.28
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	15	7.28
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	4	7.27
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	6	7.27
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	14	7.27
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	14	7.27
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	17	7.27
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	11	7.27
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	8	7.27
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	5	7.27
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	13	7.27
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	10	7.26
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	6	7.26
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	19	7.26
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	5	7.26
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	7	7.26
(3,175)	1:23:A:SER:CB	1:53:A:TYR:H	18	7.26
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	16	7.26
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	3	7.26
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	11	7.25
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	4	7.25
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	20	7.25
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	15	7.24
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	12	7.24
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	6	7.24
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	3	7.24
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	1	7.24
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	2	7.24
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	12	7.24
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	2	7.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	20	7.24
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	18	7.24
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	9	7.23
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	7	7.23
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	10	7.23
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	1	7.23
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	12	7.23
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	19	7.22
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	15	7.22
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	19	7.22
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	8	7.22
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	6	7.21
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	19	7.21
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	13	7.21
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	8	7.21
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	6	7.2
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	1	7.2
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	10	7.2
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	10	7.2
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	1	7.2
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	13	7.2
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	6	7.19
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	20	7.19
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	20	7.19
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	13	7.19
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	8	7.18
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	1	7.18
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	4	7.18
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	6	7.17
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	7	7.17
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	8	7.17
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	13	7.17
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	4	7.17
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	20	7.17
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	12	7.17
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	6	7.17
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	18	7.16
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	13	7.16
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	7	7.16
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	11	7.16
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	12	7.15
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	12	7.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	5	7.15
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	15	7.15
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	5	7.15
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	2	7.15
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	15	7.14
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	3	7.14
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	18	7.14
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	5	7.14
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	3	7.14
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	11	7.14
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	20	7.14
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	12	7.14
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	9	7.14
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	7	7.14
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	5	7.13
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	13	7.13
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	8	7.13
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	7	7.13
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	15	7.13
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	11	7.12
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	2	7.12
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	7	7.12
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	15	7.12
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	5	7.11
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	6	7.11
(3,192)	1:23:A:SER:CB	1:75:A:ILE:H	11	7.11
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	8	7.1
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	7	7.1
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	3	7.1
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	20	7.1
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	6	7.1
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	16	7.09
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	14	7.09
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	1	7.09
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	1	7.09
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	14	7.08
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	19	7.08
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	12	7.08
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	14	7.08
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	9	7.08
(3,137)	1:17:A:TYR:H	1:111:A:PRO:CB	6	7.08
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	11	7.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	1	7.07
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	11	7.07
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	1	7.07
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	2	7.07
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	8	7.07
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	20	7.07
(3,304)	1:39:A:ALA:H	1:83:A:SER:CB	10	7.07
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	12	7.07
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	13	7.07
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	17	7.07
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	5	7.07
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	10	7.07
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	14	7.07
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	4	7.07
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	1	7.07
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	3	7.07
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	18	7.06
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	1	7.06
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	10	7.06
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	19	7.06
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	12	7.06
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	14	7.06
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	19	7.06
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	9	7.06
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	11	7.06
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	1	7.05
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	15	7.05
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	1	7.05
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	1	7.05
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	1	7.05
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	9	7.05
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	7	7.05
(3,47)	1:5:A:SER:CB	1:57:A:GLN:H	10	7.05
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	2	7.05
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	19	7.05
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	20	7.04
(3,321)	1:45:A:GLY:H	1:69:A:SER:CB	18	7.04
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	13	7.04
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	2	7.04
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	5	7.04
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	10	7.04
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	16	7.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	15	7.03
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	7	7.03
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	8	7.03
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	10	7.02
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	16	7.02
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	14	7.02
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	3	7.02
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	20	7.02
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	6	7.02
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	2	7.02
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	7	7.01
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	3	7.01
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	15	7.01
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	4	7.01
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	20	7.01
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	9	7.01
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	5	7.01
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	19	7.0
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	3	7.0
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	12	7.0
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	6	7.0
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	20	7.0
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	12	7.0
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	11	7.0
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	11	7.0
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	15	7.0
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	5	6.99
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	7	6.99
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	16	6.99
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	13	6.99
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	4	6.99
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	10	6.99
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	16	6.99
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	10	6.99
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	17	6.98
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	11	6.98
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	9	6.98
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	8	6.98
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	9	6.98
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	17	6.98
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	8	6.97
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	17	6.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	19	6.97
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	3	6.97
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	12	6.97
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	20	6.97
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	10	6.96
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	9	6.96
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	1	6.96
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	14	6.96
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	13	6.96
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	14	6.96
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	3	6.96
(3,467)	1:72:A:LEU:H	1:111:A:PRO:CB	12	6.95
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	8	6.95
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	14	6.95
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	18	6.95
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	11	6.95
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	6	6.95
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	14	6.95
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	3	6.94
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	6	6.94
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	9	6.94
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	20	6.94
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	12	6.94
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	13	6.94
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	19	6.94
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	11	6.94
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	13	6.94
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	1	6.94
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	3	6.93
(3,465)	1:71:A:THR:H	1:111:A:PRO:CB	13	6.93
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	20	6.93
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	6	6.93
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	18	6.93
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	11	6.93
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	11	6.93
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	16	6.93
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	4	6.93
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	14	6.93
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	16	6.93
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	3	6.93
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	15	6.92
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	12	6.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	1	6.92
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	3	6.92
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	1	6.92
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	15	6.92
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	6	6.92
(3,231)	1:29:A:TYR:H	1:111:A:PRO:CB	18	6.92
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	3	6.92
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	5	6.92
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	19	6.91
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	6	6.91
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	7	6.91
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	2	6.91
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	17	6.9
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	14	6.9
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	14	6.9
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	13	6.9
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	14	6.9
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	20	6.9
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	9	6.9
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	1	6.9
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	14	6.89
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	20	6.89
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	13	6.89
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	8	6.89
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	6	6.89
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	1	6.89
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	4	6.89
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	8	6.89
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	17	6.88
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	8	6.88
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	12	6.88
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	13	6.88
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	13	6.87
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	18	6.87
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	20	6.87
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	5	6.87
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	8	6.87
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	10	6.87
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	16	6.86
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	19	6.86
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	18	6.86
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	18	6.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	15	6.86
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	13	6.86
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	6	6.86
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	7	6.86
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	9	6.86
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	20	6.85
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	18	6.85
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	8	6.85
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	8	6.85
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	3	6.85
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	18	6.85
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	17	6.85
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	3	6.85
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	9	6.84
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	14	6.84
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	6	6.84
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	5	6.84
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	18	6.84
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	18	6.84
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	4	6.84
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	16	6.84
(3,239)	1:31:A:LYS:H	1:111:A:PRO:CB	5	6.84
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	12	6.84
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	2	6.84
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	3	6.84
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	5	6.84
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	3	6.84
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	10	6.84
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	9	6.84
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	2	6.83
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	7	6.83
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	12	6.83
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	10	6.83
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	10	6.83
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	6	6.82
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	5	6.82
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	14	6.82
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	18	6.82
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	17	6.82
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	14	6.82
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	16	6.81
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	6	6.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	15	6.81
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	16	6.81
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	18	6.81
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	4	6.81
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	16	6.81
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	19	6.8
(3,265)	1:32:A:ALA:CB	1:78:A:MET:H	13	6.8
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	5	6.8
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	6	6.79
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	8	6.79
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	15	6.79
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	14	6.79
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	19	6.79
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	14	6.79
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	11	6.79
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	8	6.79
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	18	6.78
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	3	6.78
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	2	6.78
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	19	6.78
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	13	6.78
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	10	6.78
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	12	6.77
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	1	6.77
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	8	6.77
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	14	6.77
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	11	6.77
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	2	6.76
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	19	6.76
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	20	6.76
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	4	6.76
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	10	6.76
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	17	6.76
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	2	6.76
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	8	6.75
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	16	6.75
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	12	6.75
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	6	6.75
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	18	6.75
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	12	6.75
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	15	6.75
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	4	6.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	16	6.74
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	3	6.74
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	17	6.74
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	5	6.74
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	1	6.74
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	17	6.74
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	3	6.74
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	4	6.73
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	15	6.73
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	8	6.73
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	9	6.73
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	8	6.73
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	11	6.73
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	13	6.73
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	4	6.73
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	11	6.73
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	6	6.72
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	12	6.72
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	12	6.72
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	5	6.72
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	9	6.72
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	2	6.72
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	19	6.72
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	14	6.72
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	15	6.72
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	9	6.72
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	17	6.72
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	20	6.71
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	20	6.71
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	8	6.71
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	17	6.71
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	15	6.7
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	13	6.7
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	11	6.7
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	19	6.7
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	7	6.7
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	11	6.69
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	13	6.69
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	7	6.69
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	12	6.69
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	15	6.69
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	2	6.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	11	6.68
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	4	6.68
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	8	6.68
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	13	6.68
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	12	6.68
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	12	6.68
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	18	6.68
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	2	6.68
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	6	6.68
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	9	6.68
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	1	6.68
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	11	6.67
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	8	6.67
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	15	6.67
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	17	6.67
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	11	6.66
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	13	6.66
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	5	6.66
(3,401)	1:56:A:SER:CB	1:101:A:ALA:H	4	6.66
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	7	6.66
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	16	6.66
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	9	6.66
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	19	6.66
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	10	6.66
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	13	6.65
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	4	6.65
(3,226)	1:28:A:GLY:H	1:56:A:SER:CB	17	6.65
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	11	6.65
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	20	6.65
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	16	6.65
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	8	6.65
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	9	6.65
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	3	6.64
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	9	6.64
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	5	6.64
(3,317)	1:44:A:PHE:H	1:69:A:SER:CB	18	6.64
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	6	6.64
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	9	6.64
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	7	6.64
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	8	6.64
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	8	6.64
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	3	6.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	2	6.63
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	10	6.63
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	12	6.63
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	5	6.63
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	4	6.63
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	11	6.62
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	16	6.62
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	10	6.62
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	12	6.62
(3,176)	1:23:A:SER:CB	1:55:A:LEU:H	18	6.62
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	12	6.62
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	7	6.62
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	7	6.62
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	4	6.62
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	3	6.62
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	10	6.62
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	6	6.62
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	16	6.62
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	10	6.61
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	3	6.61
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	9	6.61
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	4	6.61
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	12	6.61
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	17	6.61
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	17	6.61
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	19	6.61
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	9	6.61
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	1	6.61
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	18	6.61
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	6	6.61
(3,27)	1:5:A:SER:CB	1:30:A:VAL:H	7	6.61
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	16	6.6
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	8	6.6
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	6	6.6
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	13	6.6
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	7	6.6
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	11	6.6
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	13	6.6
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	5	6.59
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	2	6.59
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	5	6.59
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	11	6.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	5	6.59
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	17	6.59
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	7	6.59
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	18	6.58
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	14	6.58
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	3	6.58
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	13	6.58
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	4	6.58
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	3	6.58
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	3	6.58
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	2	6.58
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	7	6.58
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	12	6.58
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	10	6.58
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	4	6.58
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	10	6.57
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	20	6.57
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	15	6.57
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	13	6.57
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	13	6.56
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	18	6.56
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	5	6.56
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	3	6.56
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	4	6.56
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	16	6.56
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	4	6.56
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	7	6.56
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	12	6.56
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	19	6.55
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	13	6.55
(3,433)	1:67:A:ALA:H	1:96:A:SER:CB	13	6.55
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	4	6.55
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	15	6.55
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	4	6.55
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	14	6.55
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	19	6.55
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	9	6.55
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	5	6.55
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	9	6.55
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	20	6.55
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	1	6.55
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	14	6.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	17	6.54
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	16	6.54
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	9	6.54
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	18	6.54
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	7	6.54
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	6	6.54
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	8	6.54
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	19	6.54
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	15	6.54
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	3	6.53
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	19	6.53
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	13	6.53
(3,235)	1:31:A:LYS:H	1:56:A:SER:CB	17	6.53
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	14	6.53
(3,212)	1:23:A:SER:CB	1:112:A:HIS:H	2	6.53
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	17	6.53
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	10	6.53
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	10	6.53
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	12	6.52
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	13	6.52
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	19	6.52
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	12	6.52
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	17	6.52
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	20	6.52
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	9	6.52
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	11	6.51
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	14	6.51
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	19	6.51
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	10	6.5
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	7	6.5
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	18	6.5
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	20	6.5
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	5	6.5
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	7	6.5
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	5	6.5
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	7	6.49
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	4	6.49
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	8	6.49
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	11	6.49
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	20	6.49
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	7	6.49
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	11	6.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	20	6.48
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	7	6.48
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	7	6.48
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	8	6.48
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	7	6.48
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	18	6.47
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	4	6.47
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	1	6.47
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	15	6.47
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	14	6.47
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	1	6.47
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	14	6.47
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	2	6.47
(3,400)	1:56:A:SER:CB	1:100:A:VAL:H	4	6.46
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	11	6.46
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	7	6.46
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	17	6.46
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	20	6.46
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	8	6.46
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	15	6.46
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	16	6.46
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	2	6.46
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	14	6.45
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	8	6.45
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	1	6.45
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	16	6.45
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	6	6.45
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	13	6.45
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	9	6.45
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	20	6.44
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	6	6.44
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	9	6.44
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	20	6.44
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	1	6.43
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	16	6.43
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	16	6.43
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	1	6.43
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	20	6.43
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	10	6.43
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	9	6.43
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	14	6.42
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	17	6.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	11	6.42
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	15	6.42
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	16	6.42
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	13	6.42
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	7	6.42
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	16	6.42
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	14	6.42
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	7	6.42
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	7	6.42
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	11	6.41
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	13	6.41
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	17	6.41
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	10	6.41
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	20	6.41
(3,355)	1:46:A:SER:CB	1:106:A:SER:H	14	6.41
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	5	6.41
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	14	6.41
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	5	6.41
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	6	6.41
(3,174)	1:23:A:SER:CB	1:52:A:ALA:H	6	6.41
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	13	6.41
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	3	6.41
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	5	6.41
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	17	6.41
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	20	6.4
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	18	6.4
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	16	6.4
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	20	6.4
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	4	6.4
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	17	6.4
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	17	6.4
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	2	6.4
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	13	6.4
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	2	6.39
(3,452)	1:69:A:SER:CB	1:101:A:ALA:H	12	6.39
(3,345)	1:46:A:SER:CB	1:90:A:GLY:H	20	6.39
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	20	6.39
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	20	6.39
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	5	6.39
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	13	6.39
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	17	6.38
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	4	6.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	17	6.38
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	13	6.38
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	9	6.38
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	11	6.38
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	1	6.37
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	13	6.37
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	20	6.37
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	1	6.37
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	5	6.37
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	9	6.37
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	12	6.37
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	11	6.37
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	1	6.37
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	9	6.37
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	5	6.37
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	19	6.37
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	3	6.37
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	12	6.37
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	8	6.36
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	5	6.36
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	13	6.36
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	7	6.36
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	9	6.36
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	18	6.36
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	18	6.36
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	2	6.36
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	13	6.36
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	8	6.36
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	16	6.35
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	17	6.35
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	18	6.35
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	4	6.35
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	7	6.35
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	8	6.35
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	3	6.34
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	6	6.34
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	19	6.34
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	18	6.34
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	8	6.34
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	6	6.34
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	4	6.34
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	6	6.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	18	6.34
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	5	6.34
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	8	6.34
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	8	6.34
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	5	6.34
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	2	6.33
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	4	6.33
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	2	6.33
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	17	6.33
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	12	6.33
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	2	6.33
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	9	6.33
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	19	6.32
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	14	6.32
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	3	6.32
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	2	6.32
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	14	6.32
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	12	6.32
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	5	6.31
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	1	6.31
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	10	6.31
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	6	6.31
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	16	6.31
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	5	6.31
(3,71)	1:5:A:SER:CB	1:100:A:VAL:H	17	6.31
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	7	6.31
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	8	6.3
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	10	6.3
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	2	6.3
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	5	6.3
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	11	6.3
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	6	6.3
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	2	6.3
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	6	6.3
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	11	6.3
(3,294)	1:35:A:VAL:H	1:69:A:SER:CB	15	6.29
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	5	6.29
(3,158)	1:21:A:VAL:H	1:111:A:PRO:CB	18	6.29
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	18	6.29
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	19	6.29
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	17	6.29
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	14	6.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	8	6.29
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	9	6.28
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	2	6.28
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	9	6.28
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	11	6.28
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	9	6.28
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	8	6.28
(3,209)	1:23:A:SER:CB	1:108:A:PHE:H	5	6.28
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	13	6.27
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	12	6.27
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	3	6.27
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	14	6.27
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	19	6.27
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	17	6.27
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	16	6.27
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	1	6.27
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	18	6.27
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	7	6.27
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	14	6.27
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	6	6.27
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	15	6.26
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	15	6.26
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	3	6.26
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	1	6.26
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	3	6.26
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	8	6.25
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	18	6.25
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	20	6.24
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	19	6.24
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	9	6.24
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	10	6.24
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	13	6.24
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	2	6.24
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	11	6.23
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	15	6.23
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	9	6.23
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	15	6.23
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	19	6.23
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	15	6.23
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	2	6.23
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	3	6.23
(3,130)	1:16:A:GLY:H	1:111:A:PRO:CB	6	6.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	11	6.23
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	18	6.23
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	16	6.23
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	19	6.22
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	2	6.22
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	3	6.22
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	2	6.22
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	12	6.22
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	8	6.22
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	12	6.22
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	7	6.21
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	19	6.21
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	20	6.21
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	14	6.21
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	6	6.21
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	19	6.21
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	3	6.21
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	16	6.21
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	4	6.2
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	15	6.2
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	19	6.2
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	13	6.2
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	10	6.2
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	6	6.2
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	12	6.2
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	12	6.19
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	9	6.19
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	7	6.19
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	12	6.19
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	6	6.19
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	18	6.19
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	7	6.18
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	16	6.18
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	13	6.18
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	3	6.18
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	19	6.18
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	16	6.18
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	19	6.18
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	4	6.18
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	5	6.18
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	2	6.17
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	4	6.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	12	6.17
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	4	6.17
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	6	6.17
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	16	6.17
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	17	6.16
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	8	6.16
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	7	6.16
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	16	6.16
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	19	6.16
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	10	6.16
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	14	6.16
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	11	6.16
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	3	6.16
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	5	6.16
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	18	6.16
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	18	6.16
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	12	6.16
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	5	6.15
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	15	6.15
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	16	6.15
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	13	6.15
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	15	6.15
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	8	6.14
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	4	6.14
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	10	6.14
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	1	6.14
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	11	6.14
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	2	6.14
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	6	6.14
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	7	6.14
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	18	6.14
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	4	6.14
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	10	6.14
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	16	6.14
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	20	6.13
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	6	6.13
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	14	6.13
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	3	6.13
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	7	6.13
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	6	6.13
(3,469)	1:73:A:ALA:H	1:111:A:PRO:CB	13	6.12
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	9	6.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	8	6.12
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	6	6.12
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	9	6.12
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	4	6.12
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	4	6.12
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	6	6.11
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	19	6.11
(3,338)	1:46:A:SER:CB	1:75:A:ILE:H	11	6.11
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	8	6.11
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	14	6.11
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	13	6.11
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	5	6.11
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	1	6.11
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	16	6.11
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	10	6.1
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	11	6.1
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	10	6.1
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	8	6.1
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	9	6.1
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	16	6.09
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	13	6.09
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	7	6.09
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	1	6.09
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	12	6.09
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	13	6.09
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	15	6.09
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	9	6.09
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	6	6.09
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	4	6.09
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	4	6.08
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	15	6.08
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	4	6.08
(3,430)	1:66:A:LEU:H	1:96:A:SER:CB	13	6.08
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	9	6.08
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	1	6.08
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	19	6.08
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	19	6.08
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	6	6.08
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	17	6.08
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	5	6.08
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	7	6.08
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	12	6.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	10	6.08
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	5	6.08
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	14	6.08
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	12	6.07
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	19	6.07
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	1	6.07
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	19	6.07
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	7	6.07
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	18	6.07
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	12	6.07
(3,193)	1:23:A:SER:CB	1:76:A:MET:H	12	6.07
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	14	6.07
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	7	6.07
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	16	6.07
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	4	6.07
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	6	6.06
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	4	6.06
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	5	6.06
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	12	6.06
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	2	6.06
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	19	6.06
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	4	6.06
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	20	6.06
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	20	6.06
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	3	6.05
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	6	6.05
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	16	6.05
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	17	6.05
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	20	6.05
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	6	6.05
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	15	6.05
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	2	6.05
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	18	6.05
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	12	6.05
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	17	6.05
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	16	6.05
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	2	6.05
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	10	6.05
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	17	6.05
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	7	6.05
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	20	6.05
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	13	6.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	1	6.04
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	14	6.04
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	10	6.04
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	12	6.04
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	5	6.04
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	13	6.04
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	15	6.04
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	20	6.04
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	1	6.04
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	8	6.04
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	10	6.04
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	9	6.04
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	4	6.04
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	5	6.04
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	8	6.04
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	11	6.04
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	15	6.04
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	19	6.04
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	2	6.03
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	15	6.03
(3,396)	1:56:A:SER:CB	1:93:A:ALA:H	17	6.03
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	3	6.03
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	19	6.03
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	6	6.03
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	3	6.03
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	15	6.03
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	16	6.03
(3,303)	1:39:A:ALA:H	1:69:A:SER:CB	18	6.03
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	12	6.03
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	11	6.03
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	6	6.03
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	18	6.03
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	20	6.03
(3,247)	1:32:A:ALA:CB	1:57:A:GLN:H	9	6.03
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	9	6.03
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	20	6.03
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	4	6.03
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	20	6.03
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	13	6.03
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	2	6.03
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	10	6.03
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	1	6.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	3	6.03
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	13	6.03
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	15	6.03
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	16	6.03
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	19	6.03
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	2	6.03
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	11	6.02
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	7	6.02
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	17	6.02
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	3	6.02
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	4	6.02
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	13	6.02
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	7	6.02
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	9	6.02
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	11	6.02
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	14	6.02
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	9	6.02
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	11	6.02
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	5	6.02
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	14	6.02
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	3	6.02
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	19	6.02
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	9	6.02
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	12	6.02
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	6	6.02
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	12	6.02
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	12	6.02
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	1	6.01
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	5	6.01
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	16	6.01
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	13	6.01
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	9	6.01
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	17	6.01
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	5	6.01
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	7	6.01
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	8	6.01
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	15	6.01
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	14	6.01
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	17	6.01
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	20	6.01
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	1	6.01
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	8	6.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	14	6.01
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	17	6.01
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	11	6.01
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	10	6.01
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	5	6.01
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	6	6.01
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	12	6.01
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	18	6.01
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	5	6.01
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	11	6.01
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	17	6.01
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	18	6.01
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	19	6.01
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	7	6.01
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	18	6.01
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	15	6.01
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	7	6.0
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	8	6.0
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	13	6.0
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	9	6.0
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	18	6.0
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	2	6.0
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	16	6.0
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	19	6.0
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	6	6.0
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	10	6.0
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	13	6.0
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	4	6.0
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	16	6.0
(3,238)	1:31:A:LYS:H	1:96:A:SER:CB	10	6.0
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	2	6.0
(3,221)	1:25:A:GLY:H	1:69:A:SER:CB	10	6.0
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	18	6.0
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	11	6.0
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	12	6.0
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	15	6.0
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	15	6.0
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	4	6.0
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	11	5.99
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	1	5.99
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	17	5.99
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	7	5.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	12	5.99
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	4	5.99
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	3	5.99
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	20	5.99
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	10	5.99
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	1	5.99
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	19	5.99
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	3	5.99
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	5	5.99
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	15	5.99
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	8	5.99
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	18	5.99
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	5	5.99
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	3	5.98
(3,451)	1:69:A:SER:CB	1:100:A:VAL:H	12	5.98
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	16	5.98
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	5	5.98
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	8	5.98
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	1	5.98
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	10	5.98
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	3	5.98
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	15	5.98
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	10	5.98
(3,159)	1:22:A:ALA:H	1:69:A:SER:CB	4	5.98
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	18	5.97
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	7	5.97
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	8	5.97
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	20	5.97
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	13	5.97
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	5	5.97
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	12	5.96
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	10	5.96
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	3	5.96
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	3	5.96
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	7	5.96
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	16	5.96
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	6	5.96
(3,68)	1:5:A:SER:CB	1:93:A:ALA:H	19	5.96
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	4	5.96
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	1	5.95
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	2	5.95
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	3	5.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	14	5.95
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	13	5.95
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	1	5.95
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	1	5.95
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	1	5.94
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	11	5.94
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	19	5.94
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	2	5.94
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	1	5.94
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	16	5.94
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	4	5.94
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	1	5.94
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	1	5.94
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	14	5.93
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	2	5.93
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	20	5.93
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	8	5.93
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	20	5.93
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	10	5.93
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	6	5.93
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	13	5.93
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	15	5.93
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	4	5.93
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	10	5.93
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	16	5.92
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	4	5.92
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	19	5.92
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	20	5.92
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	20	5.92
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	1	5.92
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	5	5.92
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	17	5.92
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	20	5.91
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	16	5.91
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	6	5.91
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	4	5.91
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	7	5.91
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	2	5.91
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	16	5.91
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	14	5.91
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	12	5.9
(3,458)	1:69:A:SER:H	1:111:A:PRO:CB	18	5.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	16	5.9
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	15	5.9
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	1	5.9
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	5	5.89
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	20	5.89
(3,427)	1:65:A:PHE:H	1:96:A:SER:CB	17	5.89
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	15	5.89
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	20	5.89
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	20	5.89
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	6	5.89
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	13	5.89
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	5	5.88
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	18	5.88
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	2	5.88
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	9	5.88
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	6	5.88
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	9	5.88
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	18	5.88
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	12	5.88
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	11	5.88
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	8	5.88
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	10	5.87
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	9	5.87
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	18	5.87
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	2	5.87
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	8	5.87
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	15	5.87
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	19	5.87
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	2	5.87
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	7	5.87
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	17	5.87
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	10	5.86
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	6	5.86
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	6	5.86
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	19	5.86
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	15	5.86
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	1	5.86
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	10	5.86
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	17	5.86
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	1	5.86
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	5	5.86
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	7	5.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	12	5.85
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	11	5.85
(3,275)	1:32:A:ALA:CB	1:99:A:MET:H	7	5.85
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	15	5.85
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	16	5.85
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	10	5.85
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	6	5.85
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	15	5.85
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	3	5.85
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	8	5.84
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	10	5.84
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	15	5.84
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	18	5.84
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	18	5.84
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	12	5.84
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	6	5.84
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	10	5.84
(3,233)	1:30:A:VAL:H	1:83:A:SER:CB	10	5.84
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	2	5.84
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	13	5.84
(3,155)	1:21:A:VAL:H	1:69:A:SER:CB	5	5.84
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	10	5.84
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	12	5.84
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	15	5.83
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	14	5.83
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	10	5.83
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	15	5.83
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	6	5.83
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	18	5.83
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	6	5.83
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	10	5.83
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	5	5.83
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	4	5.83
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	18	5.83
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	17	5.83
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	14	5.82
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	2	5.82
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	5	5.82
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	15	5.82
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	14	5.82
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	7	5.82
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	14	5.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	17	5.82
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	2	5.82
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	3	5.82
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	1	5.81
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	14	5.81
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	12	5.81
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	5	5.81
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	7	5.81
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	3	5.81
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	2	5.8
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	4	5.8
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	13	5.8
(3,266)	1:32:A:ALA:CB	1:82:A:HIS:H	18	5.8
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	16	5.8
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	12	5.8
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	2	5.79
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	6	5.79
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	3	5.79
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	8	5.79
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	11	5.79
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	15	5.79
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	15	5.79
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	1	5.78
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	6	5.78
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	8	5.78
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	10	5.78
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	8	5.78
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	7	5.78
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	1	5.78
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	6	5.78
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	19	5.78
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	12	5.78
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	4	5.78
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	15	5.77
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	7	5.77
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	18	5.77
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	15	5.77
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	20	5.77
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	16	5.77
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	9	5.77
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	10	5.77
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	9	5.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	4	5.76
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	2	5.76
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	10	5.76
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	20	5.76
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	20	5.76
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	8	5.75
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	3	5.75
(3,267)	1:32:A:ALA:CB	1:83:A:SER:H	5	5.75
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	13	5.75
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	17	5.75
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	16	5.75
(3,34)	1:5:A:SER:CB	1:38:A:LEU:H	15	5.75
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	16	5.75
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	3	5.74
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	7	5.74
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	16	5.74
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	14	5.74
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	20	5.74
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	3	5.74
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	9	5.74
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	3	5.74
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	1	5.74
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	19	5.74
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	10	5.74
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	4	5.74
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	1	5.74
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	2	5.74
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	11	5.73
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	16	5.73
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	9	5.73
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	9	5.73
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	3	5.73
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	8	5.72
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	12	5.72
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	11	5.72
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	3	5.72
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	17	5.72
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	11	5.72
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	17	5.72
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	4	5.72
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	6	5.72
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	10	5.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	18	5.71
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	11	5.71
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	3	5.71
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	19	5.71
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	4	5.71
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	7	5.71
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	4	5.71
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	12	5.71
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	2	5.7
(3,462)	1:70:A:GLY:H	1:111:A:PRO:CB	12	5.7
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	11	5.7
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	3	5.7
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	11	5.7
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	5	5.7
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	11	5.7
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	8	5.7
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	10	5.7
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	18	5.7
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	15	5.7
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	12	5.7
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	3	5.7
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	4	5.69
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	3	5.69
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	9	5.69
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	9	5.69
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	9	5.69
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	5	5.69
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	12	5.69
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	17	5.69
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	11	5.69
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	17	5.69
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	8	5.69
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	8	5.69
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	18	5.69
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	12	5.69
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	15	5.69
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	19	5.69
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	11	5.69
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	6	5.69
(3,191)	1:23:A:SER:CB	1:74:A:GLY:H	15	5.68
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	10	5.68
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	12	5.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	19	5.67
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	5	5.67
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	11	5.67
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	5	5.67
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	20	5.67
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	13	5.67
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	10	5.67
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	14	5.67
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	6	5.67
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	18	5.67
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	7	5.67
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	16	5.67
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	18	5.67
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	1	5.67
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	4	5.67
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	7	5.67
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	2	5.67
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	14	5.67
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	20	5.67
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	17	5.66
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	11	5.66
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	12	5.66
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	9	5.66
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	3	5.66
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	19	5.66
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	17	5.66
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	16	5.66
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	1	5.66
(3,98)	1:11:A:HIS:H	1:46:A:SER:CB	6	5.66
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	12	5.66
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	13	5.66
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	4	5.66
(3,32)	1:5:A:SER:CB	1:34:A:SER:H	6	5.66
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	4	5.66
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	1	5.66
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	15	5.65
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	8	5.65
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	13	5.65
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	15	5.65
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	3	5.65
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	13	5.65
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	1	5.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	10	5.65
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	2	5.65
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	1	5.65
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	4	5.65
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	2	5.65
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	7	5.65
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	10	5.65
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	2	5.65
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	20	5.65
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	13	5.64
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	10	5.64
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	12	5.64
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	17	5.64
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	7	5.64
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	13	5.63
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	12	5.63
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	4	5.63
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	10	5.63
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	9	5.63
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	19	5.63
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	17	5.63
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	6	5.63
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	17	5.63
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	17	5.63
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	17	5.63
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	10	5.63
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	5	5.63
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	20	5.63
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	12	5.62
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	17	5.62
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	10	5.62
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	1	5.62
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	11	5.62
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	20	5.62
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	9	5.62
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	11	5.62
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	5	5.62
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	4	5.62
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	16	5.62
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	18	5.62
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	1	5.61
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	14	5.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	10	5.61
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	13	5.61
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	18	5.61
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	10	5.61
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	1	5.61
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	11	5.61
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	2	5.61
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	14	5.61
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	16	5.61
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	2	5.61
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	1	5.61
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	6	5.61
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	19	5.6
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	20	5.6
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	1	5.6
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	11	5.6
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	7	5.6
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	17	5.6
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	2	5.6
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	6	5.6
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	18	5.6
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	19	5.6
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	3	5.6
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	17	5.6
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	19	5.6
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	15	5.6
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	1	5.59
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	5	5.59
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	1	5.59
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	2	5.59
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	3	5.59
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	20	5.59
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	19	5.59
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	7	5.59
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	1	5.59
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	2	5.59
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	8	5.59
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	6	5.58
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	7	5.58
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	7	5.58
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	6	5.58
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	16	5.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	2	5.58
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	6	5.58
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	7	5.58
(3,327)	1:46:A:SER:CB	1:60:A:ARG:H	8	5.58
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	2	5.58
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	16	5.58
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	3	5.58
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	14	5.58
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	11	5.58
(3,87)	1:7:A:VAL:H	1:83:A:SER:CB	14	5.58
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	20	5.58
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	14	5.58
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	14	5.58
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	16	5.57
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	18	5.57
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	7	5.57
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	14	5.57
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	8	5.57
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	8	5.57
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	20	5.57
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	14	5.57
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	15	5.57
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	17	5.57
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	18	5.57
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	2	5.57
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	3	5.57
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	13	5.57
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	15	5.57
(3,33)	1:5:A:SER:CB	1:35:A:VAL:H	15	5.57
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	13	5.56
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	6	5.56
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	2	5.56
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	13	5.55
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	2	5.55
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	17	5.55
(3,384)	1:56:A:SER:CB	1:67:A:ALA:H	1	5.55
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	12	5.55
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	20	5.55
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	17	5.55
(3,189)	1:23:A:SER:CB	1:71:A:THR:H	4	5.55
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	14	5.55
(3,29)	1:5:A:SER:CB	1:32:A:ALA:H	19	5.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	4	5.54
(3,397)	1:56:A:SER:H	1:96:A:SER:CB	16	5.54
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	1	5.54
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	13	5.54
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	4	5.54
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	11	5.54
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	16	5.54
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	16	5.54
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	2	5.54
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	1	5.53
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	15	5.53
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	6	5.53
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	10	5.53
(3,442)	1:69:A:SER:CB	1:90:A:GLY:H	8	5.53
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	18	5.53
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	13	5.53
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	5	5.53
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	4	5.53
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	14	5.52
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	10	5.52
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	15	5.52
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	1	5.52
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	10	5.52
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	19	5.52
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	2	5.52
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	7	5.52
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	15	5.52
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	10	5.51
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	1	5.51
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	16	5.51
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	11	5.51
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	1	5.51
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	11	5.51
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	3	5.51
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	2	5.51
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	8	5.51
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	11	5.51
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	7	5.51
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	15	5.51
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	1	5.51
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	8	5.51
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	14	5.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	14	5.5
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	11	5.5
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	9	5.5
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	1	5.5
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	19	5.5
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	20	5.5
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	11	5.5
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	15	5.5
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	4	5.49
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	11	5.49
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	5	5.49
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	8	5.49
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	13	5.49
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	20	5.49
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	3	5.49
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	7	5.49
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	9	5.48
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	20	5.48
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	14	5.48
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	3	5.48
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	19	5.48
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	17	5.48
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	8	5.48
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	17	5.48
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	3	5.48
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	1	5.48
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	20	5.48
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	7	5.47
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	4	5.47
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	2	5.47
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	14	5.47
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	5	5.47
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	20	5.47
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	13	5.47
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	2	5.47
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	17	5.47
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	1	5.47
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	11	5.47
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	16	5.46
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	4	5.46
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	13	5.46
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	14	5.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	19	5.46
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	17	5.46
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	10	5.46
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	2	5.45
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	3	5.45
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	18	5.45
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	6	5.45
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	13	5.45
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	13	5.45
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	17	5.45
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	20	5.45
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	8	5.45
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	13	5.45
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	12	5.45
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	10	5.45
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	1	5.45
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	4	5.45
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	1	5.45
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	9	5.45
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	5	5.45
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	10	5.45
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	1	5.45
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	2	5.45
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	10	5.45
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	12	5.45
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	12	5.45
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	6	5.44
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	19	5.44
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	1	5.44
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	11	5.44
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	14	5.44
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	18	5.44
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	6	5.44
(3,237)	1:31:A:LYS:H	1:83:A:SER:CB	20	5.44
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	6	5.44
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	14	5.44
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	8	5.44
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	14	5.44
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	16	5.44
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	18	5.44
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	16	5.44
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	9	5.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	16	5.43
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	15	5.43
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	19	5.43
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	6	5.43
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	10	5.43
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	13	5.43
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	14	5.43
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	17	5.43
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	3	5.43
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	9	5.42
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	9	5.42
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	13	5.42
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	10	5.42
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	16	5.42
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	9	5.42
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	17	5.42
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	5	5.42
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	13	5.42
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	8	5.42
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	20	5.42
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	13	5.42
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	2	5.42
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	2	5.41
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	11	5.41
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	18	5.41
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	9	5.41
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	11	5.41
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	15	5.41
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	15	5.41
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	19	5.41
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	5	5.41
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	18	5.41
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	4	5.4
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	3	5.4
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	2	5.4
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	16	5.4
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	19	5.4
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	11	5.4
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	19	5.39
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	17	5.39
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	12	5.39
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	15	5.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	17	5.39
(3,342)	1:46:A:SER:CB	1:83:A:SER:H	4	5.39
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	12	5.39
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	19	5.39
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	6	5.39
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	1	5.39
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	7	5.39
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	13	5.39
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	15	5.39
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	16	5.39
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	1	5.39
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	13	5.39
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	4	5.39
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	18	5.39
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	15	5.39
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	14	5.38
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	5	5.38
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	17	5.38
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	5	5.38
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	1	5.38
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	20	5.38
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	9	5.38
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	5	5.38
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	1	5.38
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	8	5.38
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	19	5.38
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	17	5.38
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	7	5.37
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	11	5.37
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	20	5.37
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	19	5.37
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	8	5.37
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	12	5.37
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	11	5.37
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	12	5.36
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	3	5.36
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	13	5.36
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	8	5.36
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	11	5.36
(3,177)	1:23:A:SER:CB	1:56:A:SER:H	18	5.36
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	20	5.35
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	14	5.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	7	5.35
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	5	5.35
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	19	5.35
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	13	5.35
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	15	5.35
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	9	5.35
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	11	5.35
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	9	5.35
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	18	5.35
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	11	5.35
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	7	5.35
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	8	5.34
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	10	5.34
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	12	5.34
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	13	5.34
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	1	5.34
(3,246)	1:32:A:ALA:CB	1:54:A:GLN:H	19	5.34
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	3	5.34
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	5	5.34
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	16	5.34
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	3	5.34
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	16	5.34
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	6	5.34
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	17	5.34
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	15	5.34
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	7	5.33
(3,436)	1:68:A:THR:H	1:96:A:SER:CB	12	5.33
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	7	5.33
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	17	5.33
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	12	5.33
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	6	5.33
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	9	5.33
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	12	5.33
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	1	5.33
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	12	5.33
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	5	5.33
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	3	5.33
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	15	5.32
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	14	5.32
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	20	5.32
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	18	5.32
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	17	5.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	12	5.32
(3,148)	1:20:A:LEU:H	1:69:A:SER:CB	5	5.32
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	16	5.32
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	20	5.31
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	15	5.31
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	7	5.31
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	14	5.31
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	5	5.31
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	12	5.31
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	11	5.31
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	9	5.31
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	16	5.31
(3,412)	1:60:A:ARG:H	1:83:A:SER:CB	2	5.3
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	13	5.3
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	17	5.3
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	5	5.3
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	16	5.3
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	3	5.3
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	13	5.3
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	19	5.3
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	20	5.3
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	13	5.3
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	2	5.3
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	16	5.29
(3,381)	1:55:A:LEU:H	1:96:A:SER:CB	16	5.29
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	8	5.29
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	9	5.29
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	17	5.29
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	14	5.28
(3,463)	1:71:A:THR:H	1:83:A:SER:CB	13	5.28
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	15	5.28
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	20	5.28
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	12	5.28
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	2	5.28
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	15	5.28
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	1	5.28
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	12	5.28
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	19	5.28
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	12	5.28
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	12	5.28
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	16	5.28
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	12	5.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	17	5.27
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	3	5.27
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	8	5.27
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	16	5.27
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	12	5.27
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	2	5.27
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	4	5.27
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	9	5.27
(3,90)	1:8:A:VAL:H	1:96:A:SER:CB	9	5.27
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	16	5.27
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	3	5.26
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	12	5.26
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	2	5.26
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	6	5.26
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	12	5.26
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	18	5.26
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	6	5.26
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	8	5.26
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	16	5.26
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	7	5.26
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	14	5.25
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	15	5.25
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	16	5.25
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	17	5.25
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	19	5.24
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	14	5.24
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	13	5.24
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	11	5.24
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	18	5.24
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	11	5.24
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	16	5.24
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	3	5.24
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	19	5.24
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	11	5.24
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	5	5.23
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	20	5.23
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	11	5.23
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	16	5.23
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	16	5.23
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	13	5.23
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	19	5.23
(3,218)	1:24:A:GLY:H	1:111:A:PRO:CB	18	5.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	20	5.23
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	14	5.23
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	9	5.23
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	19	5.22
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	6	5.22
(3,392)	1:56:A:SER:H	1:83:A:SER:CB	16	5.22
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	1	5.22
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	3	5.22
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	3	5.22
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	2	5.22
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	20	5.22
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	19	5.22
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	3	5.21
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	17	5.21
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	4	5.21
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	13	5.21
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	15	5.21
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	11	5.21
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	2	5.21
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	2	5.2
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	18	5.2
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	3	5.2
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	20	5.2
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	10	5.2
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	3	5.2
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	3	5.2
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	5	5.2
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	20	5.2
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	2	5.2
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	18	5.19
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	13	5.19
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	20	5.19
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	15	5.19
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	20	5.19
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	4	5.19
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	7	5.19
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	15	5.19
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	11	5.19
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	6	5.19
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	1	5.19
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	7	5.19
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	19	5.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	5	5.18
(3,336)	1:46:A:SER:CB	1:71:A:THR:H	13	5.18
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	9	5.18
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	20	5.18
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	7	5.18
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	4	5.18
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	9	5.18
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	6	5.17
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	5	5.17
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	5	5.17
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	14	5.17
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	3	5.17
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	11	5.17
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	4	5.17
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	10	5.17
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	13	5.17
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	12	5.17
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	1	5.17
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	7	5.17
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	15	5.17
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	17	5.17
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	20	5.17
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	3	5.17
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	3	5.16
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	12	5.16
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	18	5.16
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	19	5.16
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	13	5.16
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	12	5.16
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	12	5.16
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	11	5.16
(3,4)	1:3:A:ASP:H	1:56:A:SER:CB	18	5.16
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	7	5.15
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	18	5.15
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	3	5.15
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	1	5.15
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	10	5.15
(3,230)	1:29:A:TYR:H	1:96:A:SER:CB	18	5.15
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	19	5.15
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	2	5.15
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	18	5.15
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	11	5.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	2	5.15
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	17	5.15
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	14	5.15
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	6	5.14
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	9	5.14
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	12	5.14
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	14	5.14
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	10	5.14
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	12	5.14
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	1	5.14
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	13	5.14
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	4	5.14
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	17	5.14
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	3	5.14
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	9	5.13
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	5	5.13
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	5	5.13
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	14	5.13
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	20	5.13
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	4	5.13
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	6	5.13
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	7	5.13
(3,48)	1:5:A:SER:CB	1:60:A:ARG:H	8	5.13
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	2	5.12
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	14	5.12
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	10	5.12
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	8	5.12
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	2	5.12
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	7	5.12
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	1	5.12
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	14	5.12
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	13	5.12
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	7	5.12
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	8	5.12
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	12	5.12
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	15	5.11
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	5	5.11
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	5	5.11
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	11	5.11
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	1	5.11
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	4	5.11
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	4	5.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	1	5.1
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	3	5.1
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	6	5.1
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	7	5.1
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	14	5.1
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	19	5.1
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	13	5.1
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	3	5.1
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	19	5.1
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	2	5.1
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	7	5.09
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	1	5.09
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	2	5.09
(3,270)	1:32:A:ALA:CB	1:86:A:PHE:H	18	5.09
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	3	5.09
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	5	5.09
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	17	5.09
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	3	5.09
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	10	5.09
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	14	5.09
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	12	5.08
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	19	5.08
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	9	5.08
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	12	5.08
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	13	5.08
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	6	5.08
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	9	5.08
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	3	5.08
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	11	5.08
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	2	5.07
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	13	5.07
(3,365)	1:51:A:GLY:H	1:69:A:SER:CB	8	5.07
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	6	5.07
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	7	5.07
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	2	5.07
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	14	5.07
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	16	5.07
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	6	5.07
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	9	5.07
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	5	5.07
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	16	5.07
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	7	5.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	17	5.07
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	20	5.06
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	2	5.06
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	1	5.06
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	5	5.06
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	1	5.06
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	16	5.06
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	8	5.06
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	3	5.06
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	4	5.06
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	9	5.06
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	17	5.06
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	4	5.05
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	11	5.05
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	7	5.05
(3,240)	1:32:A:ALA:CB	1:45:A:GLY:H	18	5.05
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	10	5.05
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	20	5.05
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	5	5.05
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	9	5.05
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	15	5.04
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	16	5.04
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	8	5.04
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	19	5.04
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	13	5.04
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	17	5.04
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	10	5.04
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	8	5.04
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	3	5.04
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	7	5.04
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	5	5.03
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	4	5.03
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	8	5.03
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	8	5.03
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	2	5.03
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	12	5.03
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	19	5.02
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	8	5.02
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	1	5.02
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	10	5.02
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	15	5.02
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	13	5.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	5	5.02
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	11	5.02
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	1	5.02
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	13	5.02
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	15	5.01
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	17	5.01
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	7	5.01
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	18	5.01
(3,228)	1:28:A:GLY:H	1:83:A:SER:CB	20	5.01
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	12	5.01
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	19	5.01
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	3	5.01
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	10	5.01
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	6	5.0
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	17	5.0
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	11	5.0
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	17	5.0
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	16	5.0
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	16	5.0
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	14	5.0
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	19	5.0
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	11	4.99
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	18	4.99
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	3	4.99
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	15	4.99
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	6	4.99
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	7	4.99
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	11	4.99
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	20	4.99
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	5	4.99
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	15	4.99
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	7	4.98
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	18	4.98
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	16	4.98
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	4	4.98
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	3	4.98
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	4	4.98
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	7	4.98
(3,299)	1:38:A:LEU:H	1:69:A:SER:CB	16	4.98
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	10	4.98
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	8	4.98
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	6	4.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	12	4.98
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	9	4.97
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	20	4.97
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	8	4.97
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	3	4.97
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	16	4.96
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	17	4.96
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	14	4.96
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	4	4.96
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	8	4.96
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	16	4.96
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	13	4.96
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	15	4.96
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	10	4.96
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	8	4.96
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	17	4.96
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	17	4.95
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	20	4.95
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	17	4.95
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	7	4.95
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	18	4.95
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	18	4.95
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	18	4.95
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	12	4.95
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	19	4.95
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	3	4.95
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	7	4.94
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	14	4.94
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	17	4.94
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	16	4.94
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	9	4.94
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	4	4.93
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	20	4.93
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	19	4.93
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	17	4.93
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	11	4.93
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	3	4.93
(3,86)	1:7:A:VAL:H	1:46:A:SER:CB	19	4.93
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	10	4.93
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	7	4.93
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	1	4.92
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	10	4.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	4	4.92
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	18	4.92
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	20	4.92
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	8	4.92
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	2	4.92
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	6	4.92
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	18	4.92
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	18	4.92
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	16	4.92
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	19	4.91
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	1	4.91
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	1	4.91
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	20	4.91
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	16	4.91
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	15	4.91
(3,28)	1:5:A:SER:CB	1:31:A:LYS:H	6	4.91
(3,360)	1:49:A:GLY:H	1:69:A:SER:CB	9	4.9
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	19	4.9
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	1	4.9
(3,45)	1:5:A:SER:CB	1:56:A:SER:H	18	4.9
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	8	4.89
(3,448)	1:69:A:SER:H	1:96:A:SER:CB	12	4.89
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	15	4.89
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	20	4.89
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	6	4.89
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	2	4.89
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	18	4.89
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	13	4.89
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	20	4.89
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	3	4.89
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	13	4.89
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	5	4.88
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	6	4.88
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	11	4.88
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	19	4.88
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	20	4.88
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	1	4.88
(3,141)	1:18:A:ALA:H	1:69:A:SER:CB	4	4.88
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	7	4.88
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	6	4.88
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	20	4.88
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	20	4.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	13	4.87
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	12	4.87
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	18	4.87
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	15	4.87
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	14	4.87
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	20	4.87
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	12	4.87
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	19	4.87
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	1	4.87
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	2	4.87
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	6	4.87
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	17	4.87
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	15	4.87
(4,2)	1:44:A:PHE:H	1:56:A:SER:CB	4	4.86
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	1	4.86
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	4	4.86
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	4	4.86
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	15	4.86
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	16	4.86
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	15	4.86
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	11	4.86
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	3	4.86
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	10	4.85
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	8	4.85
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	9	4.85
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	10	4.85
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	20	4.85
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	6	4.85
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	15	4.85
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	17	4.84
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	3	4.84
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	12	4.84
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	16	4.84
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	11	4.84
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	1	4.84
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	17	4.84
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	19	4.84
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	9	4.83
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	20	4.83
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	17	4.83
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	14	4.83
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	13	4.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	13	4.83
(3,398)	1:56:A:SER:CB	1:97:A:LEU:H	17	4.82
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	12	4.82
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	13	4.82
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	11	4.82
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	8	4.82
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	9	4.81
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	19	4.81
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	8	4.81
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	16	4.81
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	4	4.81
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	15	4.81
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	15	4.81
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	7	4.81
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	6	4.81
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	19	4.81
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	1	4.81
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	19	4.81
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	6	4.81
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	7	4.8
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	17	4.8
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	11	4.8
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	8	4.8
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	17	4.8
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	2	4.8
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	18	4.79
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	16	4.79
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	5	4.79
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	6	4.79
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	9	4.79
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	3	4.79
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	12	4.79
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	16	4.79
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	11	4.79
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	3	4.79
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	18	4.79
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	15	4.79
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	19	4.79
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	11	4.79
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	6	4.78
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	2	4.78
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	13	4.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	14	4.78
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	6	4.78
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	5	4.78
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	11	4.77
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	9	4.77
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	2	4.77
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	16	4.77
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	8	4.77
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	6	4.77
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	7	4.77
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	9	4.76
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	8	4.76
(3,116)	1:14:A:GLY:H	1:46:A:SER:CB	6	4.76
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	7	4.76
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	8	4.76
(3,101)	1:11:A:HIS:H	1:83:A:SER:CB	4	4.76
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	10	4.75
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	2	4.75
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	1	4.75
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	13	4.75
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	7	4.75
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	15	4.75
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	13	4.75
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	5	4.75
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	10	4.75
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	11	4.74
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	2	4.74
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	20	4.74
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	6	4.74
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	19	4.74
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	7	4.74
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	16	4.74
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	5	4.73
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	13	4.73
(3,276)	1:32:A:ALA:CB	1:100:A:VAL:H	17	4.73
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	19	4.73
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	10	4.73
(3,151)	1:20:A:LEU:H	1:111:A:PRO:CB	18	4.73
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	2	4.72
(3,350)	1:46:A:SER:CB	1:97:A:LEU:H	2	4.72
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	10	4.72
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	5	4.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	13	4.72
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	1	4.72
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	9	4.72
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	11	4.72
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	19	4.72
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	20	4.72
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	11	4.72
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	11	4.71
(3,395)	1:56:A:SER:CB	1:92:A:ILE:H	19	4.71
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	3	4.71
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	19	4.71
(3,200)	1:23:A:SER:CB	1:93:A:ALA:H	19	4.71
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	6	4.71
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	8	4.71
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	17	4.71
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	7	4.71
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	18	4.71
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	15	4.7
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	5	4.7
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	7	4.7
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	15	4.7
(3,190)	1:23:A:SER:CB	1:73:A:ALA:H	15	4.7
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	18	4.7
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	20	4.7
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	9	4.7
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	11	4.7
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	4	4.69
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	7	4.69
(3,286)	1:33:A:GLY:H	1:83:A:SER:CB	2	4.69
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	4	4.69
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	15	4.69
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	7	4.69
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	9	4.69
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	16	4.69
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	16	4.69
(4,3)	1:56:A:SER:CB	1:60:A:ARG:H	10	4.68
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	15	4.68
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	10	4.68
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	15	4.68
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	16	4.68
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	11	4.68
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	6	4.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	7	4.67
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	6	4.67
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	17	4.67
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	2	4.67
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	9	4.66
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	18	4.66
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	13	4.66
(3,70)	1:5:A:SER:H	1:96:A:SER:CB	18	4.66
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	2	4.66
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	18	4.66
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	18	4.65
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	2	4.65
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	12	4.65
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	18	4.65
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	6	4.65
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	18	4.65
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	10	4.65
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	2	4.64
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	3	4.64
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	19	4.64
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	5	4.64
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	8	4.64
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	6	4.64
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	13	4.64
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	1	4.64
(4,1)	1:23:A:SER:CB	1:33:A:GLY:H	10	4.63
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	3	4.63
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	5	4.63
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	9	4.63
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	16	4.63
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	14	4.63
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	20	4.63
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	5	4.63
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	3	4.63
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	1	4.63
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	5	4.62
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	7	4.62
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	6	4.62
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	8	4.62
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	12	4.62
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	19	4.62
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	2	4.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	5	4.62
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	8	4.62
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	1	4.62
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	8	4.62
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	16	4.62
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	10	4.62
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	8	4.61
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	19	4.61
(3,208)	1:23:A:SER:CB	1:106:A:SER:H	11	4.61
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	7	4.61
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	14	4.61
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	1	4.61
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	19	4.61
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	13	4.61
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	4	4.6
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	11	4.6
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	18	4.6
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	15	4.6
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	9	4.6
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	17	4.6
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	7	4.59
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	20	4.59
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	14	4.59
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	1	4.59
(3,490)	1:83:A:SER:CB	1:109:A:ASN:H	17	4.58
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	11	4.58
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	18	4.58
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	18	4.58
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	7	4.58
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	4	4.58
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	2	4.58
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	16	4.58
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	7	4.57
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	16	4.57
(3,387)	1:56:A:SER:H	1:69:A:SER:CB	17	4.57
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	16	4.56
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	15	4.56
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	18	4.56
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	14	4.56
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	2	4.56
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	4	4.56
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	16	4.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	17	4.55
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	5	4.55
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	11	4.55
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	18	4.55
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	14	4.55
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	10	4.55
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	11	4.54
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	6	4.54
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	18	4.54
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	19	4.54
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	19	4.54
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	15	4.54
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	17	4.54
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	17	4.54
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	20	4.54
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	15	4.54
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	6	4.54
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	11	4.54
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	19	4.54
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	8	4.53
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	9	4.53
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	15	4.53
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	3	4.53
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	11	4.53
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	6	4.53
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	5	4.53
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	9	4.53
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	2	4.53
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	5	4.52
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	12	4.52
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	4	4.52
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	1	4.52
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	19	4.52
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	12	4.52
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	20	4.52
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	19	4.52
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	19	4.52
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	16	4.51
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	1	4.51
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	7	4.51
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	12	4.51
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	2	4.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	18	4.51
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	3	4.51
(3,94)	1:10:A:LEU:H	1:96:A:SER:CB	9	4.51
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	5	4.51
(3,36)	1:5:A:SER:CB	1:42:A:LEU:H	18	4.51
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	6	4.5
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	7	4.5
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	19	4.5
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	19	4.5
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	10	4.5
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	12	4.5
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	1	4.5
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	11	4.5
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	1	4.49
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	12	4.49
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	10	4.49
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	12	4.49
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	3	4.49
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	14	4.49
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	3	4.49
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	4	4.49
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	20	4.48
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	3	4.48
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	5	4.48
(3,383)	1:56:A:SER:CB	1:66:A:LEU:H	12	4.48
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	5	4.48
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	12	4.48
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	16	4.48
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	17	4.48
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	10	4.48
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	4	4.48
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	19	4.48
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	12	4.48
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	12	4.48
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	20	4.47
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	10	4.47
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	9	4.47
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	20	4.47
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	10	4.47
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	1	4.47
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	6	4.47
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	13	4.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	17	4.47
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	3	4.47
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	20	4.47
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	13	4.47
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	9	4.46
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	9	4.46
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	10	4.46
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	6	4.46
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	14	4.46
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	9	4.46
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	19	4.45
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	17	4.45
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	14	4.45
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	3	4.45
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	15	4.45
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	20	4.45
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	11	4.45
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	13	4.45
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	7	4.45
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	11	4.45
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	10	4.45
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	20	4.45
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	15	4.45
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	17	4.44
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	9	4.44
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	3	4.44
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	8	4.44
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	4	4.44
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	2	4.44
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	17	4.44
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	17	4.44
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	18	4.44
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	9	4.44
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	3	4.43
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	17	4.43
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	3	4.43
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	11	4.43
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	7	4.43
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	5	4.43
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	3	4.43
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	4	4.43
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	15	4.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	15	4.43
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	13	4.43
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	1	4.43
(3,378)	1:54:A:GLN:H	1:111:A:PRO:CB	2	4.42
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	2	4.42
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	2	4.42
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	20	4.42
(3,243)	1:32:A:ALA:CB	1:49:A:GLY:H	18	4.42
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	10	4.42
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	1	4.42
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	18	4.42
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	17	4.42
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	12	4.42
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	6	4.42
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	20	4.42
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	6	4.41
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	8	4.41
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	3	4.41
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	6	4.41
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	7	4.41
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	4	4.41
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	8	4.41
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	14	4.4
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	19	4.4
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	4	4.4
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	11	4.4
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	20	4.4
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	4	4.4
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	12	4.4
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	18	4.4
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	6	4.4
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	18	4.4
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	18	4.4
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	13	4.4
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	4	4.4
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	15	4.4
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	7	4.4
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	1	4.4
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	8	4.4
(3,473)	1:75:A:ILE:H	1:111:A:PRO:CB	13	4.39
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	9	4.39
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	20	4.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	4	4.39
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	14	4.39
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	19	4.39
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	20	4.39
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	14	4.39
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	2	4.39
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	7	4.39
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	9	4.39
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	14	4.39
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	13	4.38
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	3	4.38
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	15	4.38
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	7	4.38
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	2	4.38
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	15	4.38
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	20	4.38
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	1	4.38
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	7	4.38
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	11	4.38
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	7	4.37
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	5	4.37
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	13	4.37
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	19	4.37
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	20	4.36
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	3	4.36
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	12	4.36
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	8	4.36
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	16	4.36
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	18	4.36
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	9	4.36
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	13	4.36
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	12	4.36
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	17	4.36
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	9	4.36
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	17	4.36
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	8	4.35
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	2	4.35
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	15	4.35
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	5	4.35
(3,309)	1:40:A:ALA:H	1:83:A:SER:CB	17	4.35
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	14	4.35
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	4	4.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	14	4.35
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	12	4.35
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	1	4.35
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	14	4.35
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	1	4.34
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	7	4.34
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	17	4.34
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	3	4.34
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	10	4.34
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	13	4.34
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	2	4.33
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	14	4.33
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	10	4.33
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	14	4.33
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	19	4.33
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	6	4.33
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	12	4.33
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	11	4.33
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	3	4.33
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	8	4.33
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	20	4.32
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	7	4.32
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	13	4.32
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	5	4.32
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	3	4.32
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	1	4.32
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	12	4.32
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	19	4.31
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	4	4.31
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	3	4.31
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	20	4.31
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	16	4.31
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	11	4.31
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	6	4.31
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	9	4.31
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	14	4.31
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	17	4.3
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	17	4.3
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	4	4.3
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	13	4.3
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	8	4.3
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	19	4.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	8	4.3
(3,56)	1:5:A:SER:CB	1:70:A:GLY:H	14	4.3
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	20	4.3
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	18	4.29
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	16	4.29
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	14	4.29
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	18	4.29
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	8	4.29
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	10	4.29
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	8	4.29
(3,12)	1:4:A:THR:H	1:56:A:SER:CB	18	4.29
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	19	4.28
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	4	4.28
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	8	4.28
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	8	4.28
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	1	4.28
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	1	4.28
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	11	4.28
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	10	4.28
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	4	4.28
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	4	4.28
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	10	4.28
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	20	4.28
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	11	4.28
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	11	4.27
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	14	4.27
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	8	4.27
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	5	4.27
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	20	4.27
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	7	4.27
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	13	4.27
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	17	4.26
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	12	4.26
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	6	4.26
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	19	4.26
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	12	4.26
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	2	4.26
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	6	4.26
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	4	4.26
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	18	4.25
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	4	4.25
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	7	4.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	13	4.25
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	17	4.25
(3,282)	1:32:A:ALA:CB	1:112:A:HIS:H	2	4.25
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	13	4.25
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	19	4.25
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	12	4.25
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	2	4.25
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	20	4.25
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	14	4.25
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	15	4.24
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	11	4.24
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	17	4.24
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	14	4.24
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	7	4.24
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	13	4.24
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	19	4.24
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	4	4.24
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	6	4.24
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	9	4.23
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	19	4.23
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	12	4.23
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	10	4.23
(3,187)	1:23:A:SER:H	1:69:A:SER:CB	4	4.23
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	8	4.23
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	3	4.23
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	5	4.23
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	20	4.23
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	8	4.23
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	20	4.23
(3,346)	1:46:A:SER:CB	1:92:A:ILE:H	18	4.22
(3,341)	1:46:A:SER:CB	1:82:A:HIS:H	18	4.22
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	4	4.22
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	10	4.22
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	8	4.22
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	12	4.22
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	1	4.22
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	12	4.22
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	8	4.21
(3,394)	1:56:A:SER:CB	1:90:A:GLY:H	20	4.21
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	14	4.21
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	19	4.21
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	11	4.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	5	4.21
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	18	4.21
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	5	4.2
(3,382)	1:55:A:LEU:H	1:111:A:PRO:CB	16	4.2
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	9	4.2
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	9	4.2
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	6	4.2
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	5	4.2
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	8	4.2
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	13	4.2
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	19	4.2
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	16	4.2
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	2	4.19
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	20	4.19
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	4	4.19
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	3	4.19
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	9	4.19
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	8	4.19
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	11	4.19
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	16	4.19
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	1	4.19
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	18	4.19
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	11	4.19
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	7	4.19
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	14	4.19
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	20	4.19
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	11	4.19
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	8	4.18
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	10	4.18
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	12	4.18
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	10	4.18
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	16	4.18
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	5	4.18
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	9	4.18
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	16	4.18
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	9	4.18
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	16	4.18
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	18	4.18
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	2	4.18
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	17	4.18
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	5	4.18
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	12	4.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,333)	1:46:A:SER:CB	1:69:A:SER:H	18	4.17
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	14	4.17
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	4	4.17
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	10	4.17
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	16	4.17
(3,111)	1:13:A:PHE:H	1:83:A:SER:CB	2	4.17
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	4	4.17
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	1	4.16
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	17	4.16
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	13	4.16
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	3	4.16
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	18	4.16
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	16	4.16
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	5	4.15
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	13	4.15
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	16	4.15
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	2	4.15
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	6	4.15
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	9	4.15
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	9	4.15
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	20	4.15
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	15	4.15
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	14	4.15
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	7	4.14
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	7	4.14
(3,163)	1:23:A:SER:H	1:32:A:ALA:CB	9	4.14
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	10	4.13
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	11	4.13
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	11	4.13
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	18	4.13
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	11	4.13
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	1	4.13
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	3	4.13
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	13	4.13
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	13	4.13
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	6	4.13
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	5	4.13
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	8	4.13
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	5	4.12
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	6	4.12
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	14	4.12
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	16	4.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	18	4.12
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	15	4.12
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	15	4.12
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	4	4.11
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	6	4.11
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	1	4.11
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	1	4.11
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	3	4.11
(3,21)	1:5:A:SER:CB	1:21:A:VAL:H	6	4.11
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	16	4.1
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	16	4.1
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	6	4.1
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	19	4.1
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	4	4.1
(3,284)	1:33:A:GLY:H	1:56:A:SER:CB	17	4.1
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	20	4.1
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	3	4.1
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	7	4.1
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	8	4.1
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	16	4.1
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	6	4.09
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	14	4.09
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	3	4.09
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	14	4.09
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	9	4.09
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	8	4.09
(3,207)	1:23:A:SER:CB	1:105:A:VAL:H	20	4.09
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	12	4.09
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	2	4.09
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	7	4.09
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	19	4.08
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	13	4.08
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	18	4.08
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	5	4.08
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	12	4.08
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	6	4.08
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	15	4.08
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	17	4.08
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	7	4.08
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	20	4.08
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	15	4.07
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	10	4.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	10	4.07
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	9	4.07
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	8	4.07
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	14	4.07
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	2	4.07
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	5	4.07
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	17	4.07
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	8	4.07
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	18	4.07
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	13	4.07
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	10	4.06
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	16	4.06
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	15	4.06
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	16	4.06
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	2	4.06
(3,170)	1:23:A:SER:CB	1:46:A:SER:H	9	4.06
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	3	4.06
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	4	4.06
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	10	4.06
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	7	4.06
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	4	4.06
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	19	4.06
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	11	4.06
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	6	4.05
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	2	4.05
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	6	4.05
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	1	4.05
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	9	4.05
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	19	4.05
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	3	4.05
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	13	4.05
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	15	4.05
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	3	4.05
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	10	4.05
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	20	4.05
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	3	4.04
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	2	4.04
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	10	4.04
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	15	4.04
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	13	4.04
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	18	4.04
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	5	4.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	15	4.04
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	13	4.04
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	16	4.04
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	14	4.04
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	5	4.03
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	20	4.03
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	12	4.03
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	12	4.03
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	20	4.03
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	15	4.03
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	7	4.03
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	10	4.03
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	18	4.03
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	10	4.03
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	8	4.03
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	13	4.03
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	7	4.02
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	11	4.02
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	1	4.02
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	8	4.02
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	16	4.02
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	11	4.02
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	7	4.02
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	6	4.02
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	20	4.02
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	2	4.02
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	18	4.02
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	9	4.02
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	19	4.01
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	2	4.01
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	6	4.01
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	18	4.01
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	16	4.01
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	8	4.01
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	11	4.01
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	13	4.01
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	14	4.01
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	13	4.01
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	1	4.0
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	15	4.0
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	16	4.0
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	7	4.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	1	4.0
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	7	4.0
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	1	4.0
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	10	4.0
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	14	4.0
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	6	4.0
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	16	4.0
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	15	4.0
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	14	4.0
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	10	3.99
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	15	3.99
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	12	3.99
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	1	3.99
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	17	3.99
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	12	3.99
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	13	3.99
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	14	3.98
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	18	3.98
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	14	3.98
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	20	3.98
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	15	3.97
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	9	3.97
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	8	3.97
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	14	3.97
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	15	3.97
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	1	3.97
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	2	3.97
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	16	3.97
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	12	3.97
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	19	3.97
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	17	3.96
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	4	3.96
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	17	3.96
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	18	3.96
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	18	3.96
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	15	3.96
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	7	3.96
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	3	3.96
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	13	3.96
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	11	3.96
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	9	3.95
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	17	3.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	3	3.95
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	12	3.95
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	8	3.95
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	15	3.95
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	9	3.95
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	1	3.95
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	12	3.95
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	9	3.95
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	19	3.95
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	15	3.95
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	5	3.94
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	11	3.94
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	1	3.94
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	20	3.94
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	5	3.94
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	15	3.94
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	1	3.94
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	19	3.94
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	9	3.94
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	5	3.94
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	15	3.94
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	5	3.94
(3,107)	1:13:A:PHE:H	1:32:A:ALA:CB	9	3.94
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	2	3.94
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	13	3.94
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	10	3.94
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	8	3.93
(3,409)	1:57:A:GLN:H	1:83:A:SER:CB	9	3.93
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	9	3.93
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	20	3.93
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	8	3.93
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	7	3.93
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	16	3.93
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	14	3.93
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	20	3.93
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	14	3.93
(3,112)	1:13:A:PHE:H	1:96:A:SER:CB	8	3.93
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	20	3.93
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	9	3.93
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	6	3.93
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	13	3.92
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	15	3.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	10	3.92
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	19	3.92
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	8	3.92
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	11	3.92
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	1	3.92
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	6	3.92
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	4	3.91
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	5	3.91
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	18	3.91
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	7	3.91
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	3	3.91
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	17	3.91
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	17	3.91
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	2	3.91
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	14	3.91
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	14	3.91
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	15	3.9
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	20	3.9
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	8	3.9
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	8	3.9
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	16	3.9
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	6	3.9
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	16	3.9
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	19	3.9
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	2	3.9
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	13	3.9
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	10	3.89
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	11	3.89
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	16	3.89
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	10	3.89
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	11	3.89
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	20	3.89
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	2	3.88
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	12	3.88
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	8	3.88
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	1	3.88
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	6	3.88
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	13	3.88
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	20	3.88
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	2	3.88
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	6	3.88
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	18	3.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	16	3.88
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	11	3.88
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	15	3.88
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	17	3.88
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	8	3.88
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	19	3.88
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	11	3.88
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	12	3.88
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	19	3.88
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	2	3.87
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	13	3.87
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	5	3.87
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	8	3.87
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	19	3.87
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	9	3.87
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	12	3.87
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	8	3.87
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	4	3.87
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	11	3.87
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	20	3.87
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	12	3.87
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	19	3.87
(3,37)	1:5:A:SER:CB	1:44:A:PHE:H	6	3.87
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	10	3.86
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	7	3.86
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	10	3.86
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	4	3.86
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	13	3.86
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	15	3.86
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	14	3.86
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	18	3.86
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	11	3.85
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	1	3.85
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	6	3.85
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	10	3.85
(3,302)	1:39:A:ALA:H	1:56:A:SER:CB	4	3.85
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	18	3.85
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	15	3.85
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	8	3.85
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	11	3.85
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	16	3.85
(3,204)	1:23:A:SER:CB	1:97:A:LEU:H	4	3.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	15	3.85
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	14	3.85
(3,443)	1:69:A:SER:CB	1:92:A:ILE:H	18	3.84
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	3	3.84
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	19	3.84
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	16	3.84
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	7	3.84
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	1	3.84
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	2	3.84
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	5	3.84
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	14	3.84
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	10	3.84
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	10	3.84
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	19	3.84
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	8	3.83
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	20	3.83
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	19	3.83
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	13	3.83
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	11	3.83
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	13	3.83
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	18	3.83
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	16	3.83
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	13	3.83
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	14	3.82
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	1	3.82
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	20	3.82
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	6	3.82
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	16	3.82
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	2	3.82
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	11	3.82
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	14	3.81
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	4	3.81
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	15	3.81
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	14	3.81
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	2	3.81
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	14	3.81
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	1	3.81
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	2	3.81
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	12	3.81
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	10	3.81
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	7	3.81
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	10	3.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	9	3.81
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	16	3.81
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	3	3.81
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	1	3.81
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	17	3.81
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	2	3.81
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	14	3.81
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	1	3.8
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	14	3.8
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	18	3.8
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	2	3.8
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	12	3.8
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	10	3.8
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	16	3.8
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	16	3.79
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	9	3.79
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	18	3.79
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	5	3.79
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	20	3.79
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	7	3.79
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	13	3.79
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	20	3.79
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	3	3.79
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	9	3.79
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	10	3.79
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	8	3.79
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	6	3.78
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	4	3.78
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	12	3.78
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	3	3.78
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	8	3.78
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	6	3.78
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	6	3.78
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	19	3.78
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	20	3.78
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	9	3.78
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	12	3.77
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	2	3.77
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	18	3.77
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	13	3.77
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	13	3.77
(3,245)	1:32:A:ALA:CB	1:53:A:TYR:H	18	3.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	5	3.77
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	4	3.77
(3,184)	1:23:A:SER:CB	1:67:A:ALA:H	17	3.77
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	8	3.77
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	10	3.77
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	7	3.77
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	20	3.77
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	14	3.77
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	14	3.76
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	16	3.76
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	17	3.76
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	5	3.76
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	18	3.76
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	19	3.76
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	20	3.76
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	7	3.76
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	12	3.76
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	20	3.76
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	11	3.75
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	12	3.75
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	3	3.75
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	19	3.75
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	17	3.75
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	15	3.75
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	3	3.75
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	5	3.75
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	4	3.75
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	15	3.75
(3,464)	1:71:A:THR:H	1:96:A:SER:CB	13	3.74
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	3	3.74
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	4	3.74
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	17	3.74
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	18	3.74
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	6	3.74
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	16	3.74
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	6	3.74
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	12	3.74
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	4	3.74
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	14	3.74
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	10	3.74
(3,173)	1:23:A:SER:CB	1:51:A:GLY:H	8	3.74
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	7	3.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	19	3.74
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	6	3.74
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	18	3.74
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	1	3.74
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	1	3.74
(3,30)	1:5:A:SER:H	1:32:A:ALA:CB	18	3.74
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	11	3.73
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	15	3.73
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	20	3.73
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	10	3.73
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	11	3.73
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	6	3.73
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	9	3.73
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	1	3.73
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	17	3.73
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	7	3.73
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	19	3.73
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	5	3.73
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	10	3.73
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	18	3.73
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	18	3.73
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	13	3.73
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	17	3.73
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	6	3.73
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	6	3.73
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	14	3.72
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	5	3.72
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	20	3.72
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	9	3.72
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	9	3.72
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	1	3.72
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	1	3.72
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	4	3.72
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	1	3.72
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	19	3.72
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	19	3.72
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	12	3.71
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	15	3.71
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	18	3.71
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	14	3.71
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	17	3.71
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	13	3.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	17	3.71
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	15	3.71
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	3	3.71
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	20	3.71
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	3	3.71
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	3	3.71
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	14	3.71
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	20	3.71
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	5	3.7
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	16	3.7
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	8	3.7
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	10	3.7
(3,106)	1:13:A:PHE:H	1:23:A:SER:CB	8	3.7
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	5	3.7
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	12	3.7
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	10	3.7
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	11	3.7
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	4	3.69
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	20	3.69
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	17	3.69
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	1	3.69
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	18	3.69
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	11	3.69
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	20	3.69
(3,188)	1:23:A:SER:CB	1:70:A:GLY:H	4	3.69
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	14	3.69
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	13	3.69
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	20	3.68
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	19	3.68
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	8	3.68
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	3	3.68
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	7	3.68
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	3	3.68
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	14	3.68
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	7	3.68
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	13	3.68
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	10	3.68
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	4	3.68
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	8	3.68
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	2	3.67
(3,399)	1:56:A:SER:CB	1:99:A:MET:H	4	3.67
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	18	3.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	6	3.67
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	19	3.67
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	9	3.67
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	15	3.67
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	18	3.67
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	7	3.67
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	16	3.67
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	13	3.67
(3,46)	1:5:A:SER:H	1:56:A:SER:CB	19	3.67
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	3	3.66
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	20	3.66
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	13	3.66
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	19	3.66
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	16	3.66
(3,354)	1:46:A:SER:CB	1:105:A:VAL:H	20	3.66
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	15	3.66
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	19	3.66
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	11	3.66
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	19	3.66
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	17	3.66
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	4	3.66
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	20	3.66
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	14	3.65
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	17	3.65
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	15	3.65
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	10	3.65
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	6	3.65
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	15	3.65
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	8	3.65
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	2	3.65
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	8	3.65
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	9	3.65
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	6	3.65
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	8	3.65
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	9	3.65
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	18	3.64
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	1	3.64
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	7	3.64
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	13	3.64
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	15	3.64
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	8	3.64
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	8	3.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	11	3.63
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	3	3.63
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	8	3.63
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	3	3.63
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	17	3.63
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	4	3.63
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	5	3.63
(3,115)	1:14:A:GLY:H	1:32:A:ALA:CB	9	3.63
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	12	3.63
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	14	3.63
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	15	3.63
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	16	3.63
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	11	3.62
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	20	3.62
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	8	3.62
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	1	3.62
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	7	3.62
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	10	3.62
(3,269)	1:32:A:ALA:CB	1:84:A:GLY:H	17	3.62
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	9	3.62
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	4	3.62
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	12	3.62
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	17	3.62
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	6	3.62
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	6	3.62
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	8	3.62
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	16	3.61
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	11	3.61
(3,367)	1:51:A:GLY:H	1:96:A:SER:CB	19	3.61
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	16	3.61
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	17	3.61
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	3	3.61
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	3	3.61
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	17	3.61
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	6	3.61
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	14	3.61
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	10	3.6
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	13	3.6
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	2	3.6
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	7	3.6
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	6	3.6
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	11	3.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	1	3.6
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	16	3.6
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	9	3.6
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	2	3.59
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	11	3.59
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	1	3.58
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	16	3.58
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	14	3.58
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	12	3.58
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	17	3.58
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	3	3.58
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	9	3.58
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	6	3.58
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	7	3.58
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	9	3.58
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	19	3.58
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	4	3.58
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	12	3.58
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	20	3.58
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	19	3.57
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	19	3.57
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	8	3.57
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	8	3.57
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	13	3.57
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	8	3.57
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	6	3.57
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	6	3.57
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	1	3.57
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	9	3.57
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	12	3.57
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	19	3.57
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	8	3.57
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	1	3.57
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	2	3.57
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	15	3.56
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	20	3.56
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	9	3.56
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	1	3.56
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	18	3.56
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	16	3.56
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	5	3.56
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	5	3.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	2	3.55
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	2	3.55
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	15	3.55
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	3	3.55
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	2	3.55
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	5	3.55
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	8	3.55
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	13	3.55
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	15	3.55
(3,153)	1:21:A:VAL:H	1:46:A:SER:CB	18	3.55
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	5	3.55
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	14	3.55
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	14	3.55
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	8	3.55
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	6	3.54
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	9	3.54
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	14	3.54
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	7	3.54
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	12	3.54
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	20	3.54
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	15	3.54
(3,274)	1:32:A:ALA:CB	1:97:A:LEU:H	19	3.54
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	17	3.54
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	10	3.54
(3,92)	1:10:A:LEU:H	1:69:A:SER:CB	9	3.54
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	10	3.54
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	10	3.53
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	6	3.53
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	19	3.53
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	15	3.53
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	9	3.53
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	20	3.53
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	12	3.53
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	13	3.53
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	5	3.53
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	14	3.53
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	7	3.53
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	9	3.53
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	19	3.53
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	12	3.53
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	14	3.52
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	13	3.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	1	3.52
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	11	3.52
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	20	3.52
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	18	3.52
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	19	3.52
(3,241)	1:32:A:ALA:CB	1:46:A:SER:H	18	3.52
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	5	3.52
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	3	3.52
(3,5)	1:3:A:ASP:H	1:69:A:SER:CB	9	3.52
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	18	3.51
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	6	3.51
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	11	3.51
(3,280)	1:32:A:ALA:CB	1:109:A:ASN:H	13	3.51
(3,222)	1:25:A:GLY:H	1:83:A:SER:CB	10	3.51
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	10	3.51
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	10	3.51
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	13	3.51
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	3	3.5
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	2	3.5
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	1	3.5
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	14	3.5
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	3	3.5
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	4	3.5
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	5	3.5
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	15	3.5
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	17	3.5
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	18	3.5
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	9	3.5
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	8	3.5
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	16	3.49
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	5	3.49
(3,352)	1:46:A:SER:CB	1:100:A:VAL:H	10	3.49
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	10	3.49
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	9	3.49
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	1	3.49
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	9	3.49
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	9	3.49
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	18	3.49
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	12	3.49
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	12	3.49
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	12	3.49
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	13	3.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	16	3.48
(3,373)	1:53:A:TYR:H	1:96:A:SER:CB	12	3.48
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	1	3.48
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	19	3.48
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	17	3.48
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	1	3.48
(3,211)	1:23:A:SER:H	1:111:A:PRO:CB	20	3.48
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	3	3.48
(3,160)	1:22:A:ALA:H	1:96:A:SER:CB	4	3.48
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	2	3.48
(3,97)	1:11:A:HIS:H	1:32:A:ALA:CB	9	3.48
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	13	3.48
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	16	3.48
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	3	3.48
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	9	3.47
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	18	3.47
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	3	3.46
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	3	3.46
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	18	3.46
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	4	3.46
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	14	3.46
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	3	3.46
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	17	3.46
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	13	3.46
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	20	3.46
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	8	3.46
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	13	3.46
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	4	3.45
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	10	3.45
(3,325)	1:46:A:SER:H	1:56:A:SER:CB	4	3.45
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	7	3.45
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	3	3.45
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	14	3.45
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	3	3.45
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	11	3.45
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	10	3.45
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	8	3.44
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	2	3.44
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	17	3.44
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	9	3.44
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	14	3.44
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	1	3.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	5	3.44
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	15	3.44
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	10	3.44
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	1	3.44
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	4	3.44
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	17	3.44
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	13	3.44
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	14	3.44
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	2	3.43
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	2	3.43
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	10	3.43
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	1	3.43
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	5	3.43
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	20	3.43
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	11	3.43
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	9	3.43
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	4	3.42
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	6	3.42
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	14	3.42
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	7	3.42
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	16	3.42
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	14	3.42
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	14	3.41
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	2	3.41
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	11	3.41
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	2	3.41
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	14	3.41
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	14	3.41
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	6	3.41
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	20	3.41
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	15	3.41
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	2	3.41
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	11	3.41
(3,3)	1:3:A:ASP:H	1:46:A:SER:CB	18	3.41
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	7	3.4
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	11	3.4
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	14	3.4
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	12	3.4
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	6	3.4
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	13	3.4
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	6	3.4
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	1	3.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	10	3.4
(3,477)	1:78:A:MET:H	1:96:A:SER:CB	3	3.39
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	17	3.39
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	17	3.39
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	2	3.39
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	9	3.39
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	17	3.39
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	15	3.39
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	5	3.39
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	11	3.39
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	1	3.39
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	6	3.38
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	18	3.38
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	11	3.38
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	7	3.38
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	15	3.38
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	2	3.38
(3,203)	1:23:A:SER:H	1:96:A:SER:CB	4	3.38
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	15	3.38
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	3	3.38
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	7	3.38
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	10	3.38
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	8	3.38
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	18	3.37
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	4	3.37
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	2	3.37
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	12	3.37
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	2	3.37
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	7	3.37
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	11	3.37
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	10	3.36
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	18	3.36
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	2	3.36
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	2	3.36
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	10	3.36
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	17	3.36
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	15	3.36
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	13	3.35
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	19	3.35
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	19	3.35
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	10	3.35
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	17	3.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	14	3.35
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	14	3.35
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	8	3.34
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	1	3.34
(3,385)	1:56:A:SER:CB	1:68:A:THR:H	12	3.34
(3,370)	1:52:A:ALA:H	1:96:A:SER:CB	3	3.34
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	1	3.34
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	5	3.34
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	9	3.34
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	18	3.34
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	1	3.34
(3,134)	1:17:A:TYR:H	1:69:A:SER:CB	16	3.34
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	1	3.34
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	5	3.34
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	16	3.33
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	19	3.33
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	5	3.33
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	5	3.33
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	4	3.33
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	20	3.33
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	11	3.33
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	11	3.33
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	5	3.33
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	5	3.33
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	4	3.32
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	8	3.32
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	14	3.32
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	11	3.32
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	1	3.32
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	20	3.32
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	3	3.32
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	5	3.32
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	3	3.32
(3,131)	1:17:A:TYR:H	1:32:A:ALA:CB	18	3.32
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	14	3.32
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	11	3.31
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	17	3.31
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	10	3.31
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	18	3.31
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	11	3.31
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	3	3.31
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	1	3.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	18	3.31
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	16	3.31
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	8	3.31
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	5	3.31
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	10	3.3
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	18	3.3
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	5	3.3
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	14	3.3
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	6	3.3
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	5	3.3
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	6	3.3
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	17	3.3
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	8	3.3
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	20	3.3
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	8	3.3
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	7	3.3
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	13	3.3
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	9	3.3
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	5	3.3
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	4	3.29
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	1	3.29
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	13	3.29
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	10	3.29
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	12	3.29
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	17	3.29
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	19	3.29
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	3	3.29
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	2	3.29
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	3	3.29
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	18	3.28
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	2	3.28
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	7	3.28
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	8	3.28
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	10	3.28
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	6	3.28
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	11	3.28
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	16	3.28
(3,118)	1:14:A:GLY:H	1:69:A:SER:CB	4	3.28
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	2	3.27
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	13	3.27
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	14	3.27
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	17	3.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	16	3.27
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	4	3.27
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	13	3.27
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	3	3.27
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	11	3.27
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	17	3.26
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	2	3.26
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	3	3.26
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	8	3.26
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	9	3.26
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	4	3.26
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	7	3.25
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	18	3.25
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	13	3.25
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	7	3.25
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	17	3.25
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	20	3.25
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	13	3.25
(3,194)	1:23:A:SER:CB	1:82:A:HIS:H	10	3.25
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	16	3.25
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	10	3.25
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	12	3.25
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	5	3.25
(3,67)	1:5:A:SER:CB	1:90:A:GLY:H	4	3.25
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	9	3.24
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	4	3.24
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	19	3.24
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	12	3.24
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	5	3.24
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	5	3.24
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	15	3.24
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	20	3.24
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	10	3.24
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	7	3.24
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	17	3.24
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	12	3.24
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	13	3.24
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	11	3.24
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	18	3.24
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	16	3.23
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	4	3.23
(3,199)	1:23:A:SER:CB	1:92:A:ILE:H	19	3.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	18	3.23
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	7	3.23
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	5	3.23
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	14	3.23
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	18	3.23
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	19	3.23
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	18	3.23
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	19	3.22
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	7	3.22
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	3	3.22
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	4	3.22
(3,214)	1:24:A:GLY:H	1:56:A:SER:CB	9	3.22
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	9	3.22
(3,146)	1:20:A:LEU:H	1:46:A:SER:CB	18	3.22
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	5	3.22
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	20	3.22
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	20	3.21
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	7	3.21
(3,293)	1:35:A:VAL:H	1:56:A:SER:CB	5	3.21
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	11	3.21
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	11	3.21
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	6	3.21
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	5	3.21
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	12	3.21
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	11	3.21
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	2	3.2
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	11	3.2
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	5	3.2
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	10	3.2
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	9	3.2
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	17	3.2
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	8	3.2
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	14	3.2
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	20	3.2
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	1	3.2
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	2	3.2
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	15	3.2
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	13	3.2
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	20	3.2
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	19	3.19
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	11	3.19
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	1	3.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	12	3.19
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	13	3.19
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	16	3.19
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	16	3.18
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	8	3.18
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	15	3.18
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	20	3.18
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	1	3.18
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	2	3.18
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	9	3.18
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	13	3.18
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	7	3.18
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	8	3.18
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	5	3.18
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	13	3.18
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	1	3.18
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	4	3.17
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	13	3.17
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	12	3.17
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	9	3.17
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	9	3.17
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	20	3.17
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	13	3.17
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	19	3.17
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	20	3.17
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	5	3.16
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	15	3.16
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	16	3.16
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	6	3.16
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	14	3.16
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	15	3.16
(3,80)	1:6:A:SER:H	1:46:A:SER:CB	9	3.16
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	15	3.16
(3,60)	1:5:A:SER:CB	1:74:A:GLY:H	20	3.16
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	15	3.15
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	5	3.15
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	7	3.15
(3,447)	1:69:A:SER:CB	1:96:A:SER:H	12	3.15
(3,320)	1:44:A:PHE:H	1:111:A:PRO:CB	14	3.15
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	9	3.15
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	14	3.15
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	16	3.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,225)	1:28:A:GLY:H	1:46:A:SER:CB	10	3.15
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	10	3.15
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	3	3.15
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	5	3.15
(3,42)	1:5:A:SER:CB	1:53:A:TYR:H	12	3.15
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	14	3.15
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	10	3.14
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	2	3.14
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	10	3.14
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	7	3.14
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	16	3.14
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	2	3.14
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	19	3.14
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	3	3.14
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	16	3.13
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	20	3.13
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	6	3.13
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	12	3.13
(3,114)	1:14:A:GLY:H	1:23:A:SER:CB	7	3.13
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	16	3.13
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	1	3.13
(3,51)	1:5:A:SER:CB	1:64:A:VAL:H	9	3.13
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	1	3.12
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	6	3.12
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	19	3.12
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	13	3.12
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	9	3.12
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	4	3.12
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	15	3.12
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	15	3.12
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	6	3.12
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	19	3.12
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	5	3.12
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	3	3.12
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	8	3.11
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	20	3.11
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	19	3.11
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	4	3.11
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	8	3.11
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	15	3.11
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	9	3.11
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	9	3.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	20	3.11
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	2	3.11
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	11	3.11
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	17	3.11
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	14	3.11
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	4	3.11
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	18	3.11
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	16	3.1
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	1	3.1
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	14	3.1
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	19	3.1
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	10	3.1
(3,297)	1:38:A:LEU:H	1:46:A:SER:CB	11	3.1
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	8	3.1
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	3	3.1
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	14	3.1
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	13	3.1
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	14	3.09
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	4	3.09
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	16	3.09
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	16	3.09
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	17	3.09
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	12	3.09
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	17	3.08
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	4	3.08
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	9	3.08
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	2	3.08
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	8	3.08
(3,219)	1:25:A:GLY:H	1:46:A:SER:CB	10	3.08
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	15	3.08
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	15	3.08
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	6	3.08
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	14	3.08
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	8	3.07
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	6	3.07
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	19	3.07
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	12	3.07
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	20	3.07
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	7	3.07
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	7	3.07
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	6	3.07
(3,119)	1:14:A:GLY:H	1:83:A:SER:CB	2	3.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	2	3.07
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	14	3.07
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	11	3.06
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	8	3.06
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	13	3.06
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	1	3.06
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	9	3.06
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	17	3.06
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	14	3.06
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	4	3.06
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	18	3.06
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	5	3.06
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	11	3.06
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	6	3.06
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	16	3.06
(3,39)	1:5:A:SER:H	1:46:A:SER:CB	19	3.06
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	10	3.06
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	9	3.05
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	20	3.05
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	8	3.05
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	16	3.05
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	17	3.04
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	14	3.04
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	5	3.04
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	14	3.04
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	11	3.04
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	7	3.04
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	4	3.04
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	10	3.04
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	5	3.04
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	1	3.03
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	11	3.03
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	9	3.03
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	19	3.03
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	8	3.03
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	10	3.03
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	11	3.03
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	4	3.03
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	15	3.02
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	5	3.02
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	6	3.02
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	14	3.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	17	3.02
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	3	3.01
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	6	3.01
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	10	3.01
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	7	3.01
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	17	3.01
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	7	3.01
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	1	3.01
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	15	3.01
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	8	3.0
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	13	3.0
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	18	3.0
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	1	3.0
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	1	3.0
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	4	3.0
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	2	3.0
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	9	2.99
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	16	2.99
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	4	2.99
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	6	2.99
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	1	2.99
(3,213)	1:24:A:GLY:H	1:46:A:SER:CB	18	2.99
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	11	2.99
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	20	2.99
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	13	2.99
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	4	2.99
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	7	2.98
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	4	2.98
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	7	2.98
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	11	2.98
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	19	2.98
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	11	2.98
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	3	2.98
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	9	2.97
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	4	2.97
(3,353)	1:46:A:SER:CB	1:101:A:ALA:H	4	2.97
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	2	2.97
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	18	2.97
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	3	2.97
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	10	2.97
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	6	2.97
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	19	2.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	5	2.97
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	15	2.97
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	9	2.97
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	4	2.97
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	4	2.97
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	9	2.97
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	18	2.96
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	15	2.96
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	5	2.96
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	3	2.96
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	3	2.96
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	4	2.96
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	8	2.95
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	14	2.95
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	3	2.95
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	14	2.95
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	12	2.95
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	11	2.95
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	2	2.95
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	8	2.95
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	3	2.94
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	6	2.94
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	16	2.94
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	18	2.94
(3,132)	1:17:A:TYR:H	1:46:A:SER:CB	6	2.94
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	6	2.94
(3,108)	1:13:A:PHE:H	1:46:A:SER:CB	18	2.94
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	11	2.94
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	16	2.94
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	5	2.94
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	9	2.94
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	9	2.93
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	16	2.93
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	2	2.93
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	6	2.93
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	5	2.93
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	19	2.93
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	1	2.93
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	10	2.93
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	18	2.93
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	5	2.93
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	14	2.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	2	2.92
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	17	2.92
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	6	2.92
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	1	2.92
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	3	2.92
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	6	2.92
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	5	2.92
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	8	2.92
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	7	2.92
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	1	2.91
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	6	2.91
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	2	2.91
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	4	2.91
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	15	2.91
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	14	2.91
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	18	2.91
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	9	2.9
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	5	2.9
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	2	2.9
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	9	2.9
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	15	2.9
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	7	2.9
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	15	2.89
(3,441)	1:69:A:SER:CB	1:89:A:ALA:H	8	2.89
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	7	2.89
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	9	2.89
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	16	2.89
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	1	2.89
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	14	2.89
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	2	2.89
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	7	2.89
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	3	2.89
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	6	2.89
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	12	2.88
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	16	2.88
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	1	2.88
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	9	2.88
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	5	2.87
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	17	2.87
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	6	2.87
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	13	2.87
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	17	2.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	15	2.87
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	3	2.87
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	3	2.87
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	15	2.87
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	14	2.87
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	19	2.87
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	12	2.87
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	17	2.86
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	11	2.86
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	2	2.86
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	5	2.86
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	8	2.86
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	13	2.86
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	11	2.86
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	20	2.86
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	10	2.86
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	19	2.86
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	17	2.86
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	16	2.85
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	7	2.85
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	16	2.85
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	6	2.85
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	11	2.85
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	9	2.85
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	12	2.85
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	3	2.85
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	10	2.84
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	13	2.84
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	9	2.84
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	12	2.84
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	18	2.84
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	12	2.83
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	15	2.83
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	12	2.83
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	14	2.83
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	11	2.83
(3,195)	1:23:A:SER:CB	1:83:A:SER:H	4	2.83
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	2	2.83
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	9	2.83
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	12	2.83
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	19	2.83
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	2	2.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	2	2.82
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	10	2.82
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	18	2.82
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	12	2.82
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	18	2.82
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	20	2.82
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	12	2.82
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	5	2.82
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	6	2.82
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	1	2.82
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	13	2.81
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	9	2.81
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	10	2.81
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	12	2.81
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	15	2.81
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	1	2.81
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	18	2.81
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	7	2.81
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	16	2.81
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	14	2.81
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	20	2.81
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	2	2.81
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	17	2.8
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	19	2.8
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	19	2.8
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	1	2.8
(3,272)	1:32:A:ALA:CB	1:92:A:ILE:H	19	2.8
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	8	2.8
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	3	2.8
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	12	2.79
(3,461)	1:70:A:GLY:H	1:96:A:SER:CB	12	2.79
(3,450)	1:69:A:SER:CB	1:99:A:MET:H	12	2.79
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	15	2.79
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	4	2.79
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	8	2.79
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	20	2.79
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	11	2.79
(3,120)	1:14:A:GLY:H	1:96:A:SER:CB	8	2.79
(3,79)	1:6:A:SER:H	1:32:A:ALA:CB	17	2.79
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	8	2.78
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	4	2.78
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	16	2.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	15	2.78
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	6	2.77
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	16	2.77
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	12	2.77
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	11	2.77
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	8	2.77
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	11	2.77
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	10	2.76
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	8	2.76
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	11	2.76
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	16	2.76
(3,202)	1:23:A:SER:CB	1:96:A:SER:H	10	2.76
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	9	2.76
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	5	2.75
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	2	2.75
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	5	2.75
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	1	2.75
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	4	2.75
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	6	2.75
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	8	2.75
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	6	2.75
(3,11)	1:4:A:THR:H	1:46:A:SER:CB	18	2.75
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	3	2.74
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	1	2.74
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	7	2.74
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	4	2.74
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	10	2.74
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	20	2.74
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	10	2.74
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	18	2.74
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	16	2.74
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	7	2.74
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	11	2.73
(3,424)	1:64:A:VAL:H	1:83:A:SER:CB	4	2.73
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	5	2.73
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	5	2.73
(3,307)	1:40:A:ALA:H	1:56:A:SER:CB	4	2.73
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	1	2.73
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	15	2.73
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	16	2.73
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	12	2.73
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	11	2.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	16	2.72
(3,329)	1:46:A:SER:CB	1:64:A:VAL:H	18	2.72
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	2	2.72
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	3	2.72
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	14	2.71
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	4	2.71
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	13	2.71
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	18	2.71
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	9	2.71
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	19	2.71
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	5	2.7
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	13	2.7
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	7	2.7
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	17	2.7
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	13	2.7
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	17	2.7
(3,100)	1:11:A:HIS:H	1:69:A:SER:CB	4	2.7
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	8	2.7
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	15	2.7
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	4	2.7
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	20	2.69
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	10	2.69
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	3	2.69
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	19	2.69
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	6	2.69
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	20	2.69
(3,288)	1:34:A:SER:H	1:56:A:SER:CB	4	2.69
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	12	2.69
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	2	2.69
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	13	2.69
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	8	2.69
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	1	2.69
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	5	2.69
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	17	2.68
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	19	2.68
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	10	2.68
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	16	2.68
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	16	2.68
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	10	2.68
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	9	2.68
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	14	2.68
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	14	2.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	6	2.67
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	7	2.67
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	14	2.67
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	2	2.67
(3,484)	1:83:A:SER:CB	1:99:A:MET:H	14	2.66
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	4	2.66
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	5	2.66
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	5	2.66
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	8	2.65
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	4	2.65
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	11	2.65
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	19	2.65
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	8	2.65
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	19	2.65
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	1	2.65
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	8	2.65
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	5	2.65
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	9	2.64
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	13	2.63
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	17	2.63
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	2	2.63
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	13	2.63
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	17	2.63
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	16	2.63
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	5	2.63
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	17	2.63
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	19	2.63
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	13	2.62
(3,348)	1:46:A:SER:CB	1:96:A:SER:H	10	2.62
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	15	2.62
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	17	2.62
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	17	2.62
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	2	2.62
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	20	2.61
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	4	2.61
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	5	2.61
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	9	2.61
(3,300)	1:38:A:LEU:H	1:83:A:SER:CB	15	2.61
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	6	2.61
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	15	2.61
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	1	2.61
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	9	2.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	19	2.6
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	3	2.6
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	15	2.6
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	7	2.6
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	3	2.6
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	11	2.6
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	17	2.6
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	4	2.6
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	8	2.6
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	12	2.59
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	18	2.59
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	18	2.59
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	12	2.59
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	11	2.59
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	7	2.58
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	14	2.58
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	3	2.58
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	16	2.58
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	14	2.58
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	18	2.58
(3,61)	1:5:A:SER:CB	1:75:A:ILE:H	12	2.58
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	18	2.58
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	17	2.57
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	6	2.57
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	10	2.56
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	18	2.56
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	20	2.56
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	6	2.56
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	12	2.56
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	19	2.56
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	13	2.56
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	2	2.55
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	17	2.55
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	17	2.55
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	20	2.55
(3,308)	1:40:A:ALA:H	1:69:A:SER:CB	12	2.55
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	17	2.55
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	4	2.55
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	13	2.55
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	18	2.55
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	1	2.55
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	16	2.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	7	2.55
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	1	2.54
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	8	2.54
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	17	2.54
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	1	2.54
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	2	2.54
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	10	2.54
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	14	2.54
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	5	2.54
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	20	2.54
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	17	2.54
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	6	2.53
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	14	2.53
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	20	2.53
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	3	2.53
(3,185)	1:23:A:SER:CB	1:68:A:THR:H	17	2.53
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	12	2.53
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	10	2.53
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	12	2.53
(3,486)	1:83:A:SER:CB	1:101:A:ALA:H	20	2.52
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	11	2.52
(3,311)	1:41:A:GLY:H	1:56:A:SER:CB	4	2.52
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	19	2.52
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	1	2.52
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	2	2.52
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	8	2.52
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	10	2.52
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	17	2.51
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	1	2.51
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	2	2.51
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	11	2.51
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	2	2.51
(3,295)	1:35:A:VAL:H	1:83:A:SER:CB	15	2.51
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	1	2.51
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	5	2.5
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	9	2.5
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	20	2.5
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	14	2.5
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	4	2.49
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	1	2.49
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	12	2.49
(3,379)	1:55:A:LEU:H	1:69:A:SER:CB	19	2.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	6	2.49
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	10	2.49
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	8	2.49
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	12	2.49
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	7	2.48
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	11	2.48
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	1	2.48
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	8	2.48
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	10	2.48
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	9	2.48
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	16	2.48
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	20	2.48
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	4	2.48
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	2	2.47
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	9	2.47
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	8	2.47
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	17	2.47
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	10	2.47
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	3	2.47
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	7	2.46
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	4	2.46
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	18	2.46
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	16	2.46
(3,351)	1:46:A:SER:CB	1:99:A:MET:H	10	2.46
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	7	2.46
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	4	2.46
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	15	2.46
(3,318)	1:44:A:PHE:H	1:83:A:SER:CB	16	2.46
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	8	2.46
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	19	2.46
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	7	2.46
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	13	2.46
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	6	2.46
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	19	2.46
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	20	2.46
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	3	2.46
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	8	2.45
(3,478)	1:78:A:MET:H	1:111:A:PRO:CB	13	2.45
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	3	2.45
(3,369)	1:52:A:ALA:H	1:69:A:SER:CB	15	2.45
(3,339)	1:46:A:SER:CB	1:76:A:MET:H	13	2.45
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	19	2.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	7	2.45
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	13	2.45
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	3	2.44
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	6	2.44
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	20	2.44
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	7	2.44
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	13	2.44
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	5	2.44
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	13	2.44
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	8	2.44
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	10	2.44
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	15	2.44
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	15	2.43
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	8	2.43
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	18	2.43
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	7	2.43
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	20	2.43
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	1	2.43
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	12	2.43
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	8	2.42
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	15	2.42
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	7	2.42
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	11	2.42
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	11	2.42
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	2	2.41
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	16	2.41
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	6	2.41
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	16	2.41
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	6	2.41
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	2	2.41
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	5	2.41
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	1	2.41
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	14	2.4
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	7	2.4
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	15	2.4
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	19	2.4
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	5	2.4
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	2	2.4
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	10	2.4
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	13	2.4
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	20	2.4
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	6	2.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	1	2.4
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	4	2.4
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	16	2.4
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	4	2.39
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	9	2.39
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	10	2.39
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	12	2.39
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	15	2.39
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	11	2.39
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	17	2.39
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	6	2.38
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	12	2.38
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	19	2.38
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	16	2.38
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	1	2.38
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	8	2.38
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	10	2.38
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	7	2.38
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	12	2.38
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	11	2.38
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	19	2.38
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	7	2.37
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	17	2.37
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	15	2.37
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	18	2.37
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	11	2.37
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	17	2.37
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	5	2.36
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	12	2.36
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	13	2.36
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	2	2.36
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	7	2.36
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	4	2.36
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	11	2.36
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	12	2.36
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	11	2.36
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	6	2.36
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	9	2.36
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	12	2.36
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	1	2.36
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	12	2.36
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	9	2.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	20	2.35
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	14	2.35
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	18	2.35
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	3	2.35
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	13	2.35
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	7	2.34
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	9	2.34
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	13	2.34
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	15	2.34
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	11	2.34
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	18	2.34
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	7	2.34
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	12	2.34
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	3	2.33
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	20	2.33
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	6	2.33
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	18	2.33
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	9	2.33
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	1	2.33
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	11	2.33
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	17	2.33
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	5	2.32
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	9	2.32
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	20	2.32
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	6	2.32
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	2	2.32
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	11	2.32
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	19	2.32
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	9	2.32
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	11	2.32
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	17	2.32
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	19	2.32
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	2	2.32
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	7	2.31
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	11	2.31
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	1	2.31
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	4	2.31
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	10	2.31
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	20	2.31
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	15	2.3
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	13	2.3
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	11	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	17	2.3
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	6	2.3
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	3	2.3
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	9	2.3
(3,319)	1:44:A:PHE:H	1:96:A:SER:CB	16	2.3
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	8	2.3
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	7	2.3
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	4	2.3
(3,145)	1:20:A:LEU:H	1:32:A:ALA:CB	18	2.3
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	7	2.29
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	4	2.29
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	1	2.29
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	16	2.29
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	5	2.29
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	8	2.29
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	4	2.29
(3,62)	1:5:A:SER:CB	1:76:A:MET:H	12	2.29
(3,26)	1:5:A:SER:CB	1:28:A:GLY:H	6	2.29
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	8	2.29
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	20	2.28
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	14	2.28
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	4	2.28
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	7	2.28
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	8	2.28
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	14	2.28
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	4	2.28
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	13	2.28
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	19	2.28
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	14	2.28
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	10	2.27
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	11	2.27
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	4	2.27
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	8	2.27
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	15	2.27
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	17	2.27
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	5	2.27
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	4	2.27
(3,152)	1:21:A:VAL:H	1:32:A:ALA:CB	18	2.27
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	14	2.27
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	15	2.27
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	20	2.27
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	9	2.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	4	2.27
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	9	2.26
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	2	2.26
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	3	2.26
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	4	2.26
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	10	2.26
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	12	2.26
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	7	2.26
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	8	2.26
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	7	2.26
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	16	2.26
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	14	2.26
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	5	2.26
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	17	2.26
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	5	2.25
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	14	2.25
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	15	2.25
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	15	2.25
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	1	2.25
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	12	2.25
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	15	2.25
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	9	2.25
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	1	2.25
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	2	2.25
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	4	2.25
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	12	2.25
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	20	2.25
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	15	2.24
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	19	2.24
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	6	2.24
(3,482)	1:83:A:SER:CB	1:96:A:SER:H	14	2.24
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	19	2.24
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	18	2.24
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	16	2.24
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	3	2.24
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	17	2.24
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	9	2.24
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	19	2.24
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	17	2.24
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	14	2.24
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	5	2.24
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	14	2.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	19	2.24
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	1	2.24
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	13	2.23
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	3	2.23
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	14	2.23
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	20	2.23
(3,125)	1:16:A:GLY:H	1:46:A:SER:CB	6	2.23
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	19	2.23
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	3	2.22
(3,335)	1:46:A:SER:CB	1:70:A:GLY:H	12	2.22
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	2	2.22
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	5	2.22
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	13	2.22
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	6	2.22
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	19	2.22
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	8	2.22
(3,268)	1:32:A:ALA:H	1:83:A:SER:CB	20	2.22
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	2	2.22
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	15	2.22
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	5	2.22
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	3	2.21
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	16	2.21
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	5	2.21
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	9	2.21
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	2	2.21
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	3	2.21
(3,171)	1:23:A:SER:H	1:46:A:SER:CB	20	2.21
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	19	2.21
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	3	2.21
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	18	2.21
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	18	2.21
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	20	2.2
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	18	2.2
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	3	2.2
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	7	2.2
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	14	2.2
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	1	2.2
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	18	2.2
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	1	2.19
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	14	2.19
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	4	2.19
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	6	2.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	9	2.19
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	2	2.19
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	2	2.19
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	10	2.19
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	1	2.19
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	5	2.19
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	4	2.19
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	18	2.19
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	13	2.18
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	5	2.18
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	8	2.18
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	7	2.18
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	8	2.18
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	17	2.18
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	16	2.18
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	18	2.18
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	19	2.18
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	19	2.17
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	14	2.17
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	4	2.17
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	6	2.17
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	8	2.17
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	20	2.17
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	19	2.17
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	19	2.17
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	18	2.17
(3,310)	1:40:A:ALA:H	1:111:A:PRO:CB	20	2.17
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	15	2.17
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	16	2.17
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	20	2.17
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	4	2.17
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	5	2.17
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	18	2.16
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	15	2.16
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	8	2.16
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	1	2.16
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	9	2.16
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	2	2.16
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	18	2.16
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	3	2.16
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	20	2.16
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	3	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	16	2.15
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	13	2.15
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	7	2.14
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	13	2.14
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	4	2.14
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	12	2.14
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	9	2.14
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	11	2.13
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	8	2.13
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	11	2.13
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	10	2.13
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	16	2.13
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	17	2.13
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	7	2.13
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	3	2.13
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	18	2.13
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	19	2.13
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	13	2.12
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	11	2.12
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	17	2.12
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	18	2.12
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	1	2.12
(3,156)	1:21:A:VAL:H	1:83:A:SER:CB	6	2.12
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	15	2.12
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	4	2.12
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	13	2.12
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	3	2.12
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	15	2.12
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	18	2.12
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	10	2.12
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	13	2.11
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	2	2.11
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	20	2.11
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	18	2.11
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	14	2.11
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	8	2.11
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	9	2.11
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	2	2.11
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	2	2.11
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	9	2.1
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	2	2.1
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	10	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	12	2.1
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	6	2.1
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	14	2.1
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	3	2.1
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	15	2.09
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	3	2.09
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	5	2.09
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	15	2.09
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	14	2.09
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	20	2.09
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	15	2.09
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	12	2.09
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	7	2.09
(3,154)	1:21:A:VAL:H	1:56:A:SER:CB	5	2.09
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	17	2.09
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	9	2.09
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	20	2.09
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	18	2.09
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	3	2.08
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	13	2.08
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	19	2.08
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	2	2.08
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	6	2.08
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	20	2.08
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	3	2.08
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	1	2.08
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	18	2.08
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	13	2.08
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	8	2.08
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	3	2.08
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	5	2.07
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	12	2.07
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	17	2.07
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	15	2.07
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	19	2.07
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	19	2.07
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	16	2.07
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	14	2.06
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	10	2.06
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	12	2.06
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	11	2.06
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	17	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	19	2.06
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	1	2.06
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	6	2.06
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	5	2.06
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	11	2.06
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	3	2.06
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	18	2.05
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	3	2.05
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	11	2.05
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	3	2.05
(3,139)	1:18:A:ALA:H	1:46:A:SER:CB	6	2.05
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	11	2.05
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	3	2.05
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	7	2.05
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	13	2.04
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	5	2.04
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	5	2.04
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	20	2.04
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	6	2.04
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	1	2.04
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	15	2.04
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	7	2.04
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	4	2.04
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	20	2.04
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	17	2.03
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	17	2.03
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	19	2.03
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	2	2.03
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	9	2.03
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	5	2.03
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	1	2.03
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	6	2.03
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	19	2.03
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	2	2.03
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	14	2.03
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	1	2.03
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	3	2.02
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	17	2.02
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	11	2.02
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	11	2.02
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	12	2.02
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	15	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	7	2.02
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	13	2.02
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	20	2.02
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	12	2.02
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	2	2.02
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	10	2.02
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	11	2.02
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	20	2.02
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	4	2.01
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	7	2.01
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	12	2.01
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	15	2.01
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	3	2.01
(3,301)	1:38:A:LEU:H	1:111:A:PRO:CB	16	2.01
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	1	2.01
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	5	2.01
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	20	2.01
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	1	2.01
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	11	2.01
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	18	2.01
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	10	2.01
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	1	2.01
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	11	2.01
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	18	2.01
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	7	2.01
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	7	2.01
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	16	2.0
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	18	2.0
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	1	2.0
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	4	2.0
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	11	2.0
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	8	2.0
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	12	2.0
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	9	2.0
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	3	2.0
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	9	2.0
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	12	2.0
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	17	2.0
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	16	2.0
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	18	1.99
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	1	1.99
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	7	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	16	1.99
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	20	1.99
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	4	1.99
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	10	1.99
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	3	1.99
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	12	1.99
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	3	1.99
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	6	1.98
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	12	1.98
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	7	1.98
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	5	1.98
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	14	1.98
(3,326)	1:46:A:SER:CB	1:57:A:GLN:H	7	1.98
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	2	1.98
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	10	1.98
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	15	1.98
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	20	1.98
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	20	1.98
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	6	1.98
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	4	1.98
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	20	1.97
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	1	1.97
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	16	1.97
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	1	1.97
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	1	1.97
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	13	1.97
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	6	1.97
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	18	1.97
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	16	1.97
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	3	1.97
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	19	1.97
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	14	1.97
(3,88)	1:7:A:VAL:H	1:96:A:SER:CB	9	1.97
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	16	1.97
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	2	1.96
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	7	1.96
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	4	1.96
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	19	1.96
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	20	1.96
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	3	1.96
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	2	1.96
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	9	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	2	1.96
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	15	1.96
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	16	1.95
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	19	1.95
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	13	1.95
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	12	1.95
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	10	1.95
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	11	1.95
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	9	1.95
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	10	1.95
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	6	1.95
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	9	1.95
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	14	1.95
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	3	1.95
(3,432)	1:67:A:ALA:H	1:83:A:SER:CB	13	1.94
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	3	1.94
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	18	1.94
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	19	1.94
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	17	1.94
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	10	1.94
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	12	1.94
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	11	1.94
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	4	1.94
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	6	1.94
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	13	1.94
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	7	1.94
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	19	1.94
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	8	1.94
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	10	1.94
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	10	1.94
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	16	1.94
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	15	1.94
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	6	1.93
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	14	1.93
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	16	1.93
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	12	1.93
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	19	1.92
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	12	1.92
(3,460)	1:70:A:GLY:H	1:83:A:SER:CB	12	1.92
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	4	1.92
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	5	1.92
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	8	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	11	1.92
(3,143)	1:18:A:ALA:H	1:96:A:SER:CB	4	1.92
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	3	1.92
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	4	1.92
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	14	1.92
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	13	1.92
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	13	1.92
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	18	1.91
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	14	1.91
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	17	1.91
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	7	1.91
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	5	1.91
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	7	1.91
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	13	1.91
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	20	1.91
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	15	1.91
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	14	1.91
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	2	1.91
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	17	1.91
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	19	1.9
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	14	1.9
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	4	1.9
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	19	1.9
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	19	1.9
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	20	1.9
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	17	1.9
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	18	1.9
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	5	1.9
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	1	1.9
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	3	1.9
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	16	1.89
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	13	1.89
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	18	1.89
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	13	1.89
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	18	1.89
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	18	1.89
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	20	1.89
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	13	1.89
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	15	1.88
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	4	1.88
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	15	1.88
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	15	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	19	1.88
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	7	1.88
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	8	1.88
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	17	1.88
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	5	1.88
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	16	1.88
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	1	1.88
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	13	1.87
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	6	1.87
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	4	1.87
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	14	1.87
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	16	1.87
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	16	1.87
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	18	1.87
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	15	1.87
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	3	1.87
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	17	1.87
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	13	1.87
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	4	1.86
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	1	1.86
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	14	1.86
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	13	1.86
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	17	1.86
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	9	1.86
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	16	1.86
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	14	1.86
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	9	1.86
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	15	1.86
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	9	1.86
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	3	1.86
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	7	1.86
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	5	1.86
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	15	1.86
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	7	1.86
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	9	1.85
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	5	1.85
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	17	1.85
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	19	1.85
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	1	1.85
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	3	1.85
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	4	1.85
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	17	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	14	1.85
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	11	1.85
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	12	1.85
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	17	1.85
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	14	1.85
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	10	1.84
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	9	1.84
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	17	1.84
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	5	1.84
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	2	1.84
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	16	1.84
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	2	1.84
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	17	1.84
(3,43)	1:5:A:SER:CB	1:54:A:GLN:H	12	1.84
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	18	1.84
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	10	1.83
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	5	1.83
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	2	1.83
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	9	1.83
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	18	1.83
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	7	1.83
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	18	1.83
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	16	1.83
(3,483)	1:83:A:SER:H	1:96:A:SER:CB	1	1.82
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	6	1.82
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	18	1.82
(3,415)	1:61:A:ASN:H	1:69:A:SER:CB	6	1.82
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	15	1.82
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	13	1.82
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	2	1.82
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	15	1.82
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	9	1.82
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	9	1.82
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	8	1.82
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	10	1.82
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	16	1.82
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	19	1.81
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	20	1.81
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	11	1.81
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	3	1.81
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	15	1.81
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	3	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	19	1.81
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	16	1.81
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	12	1.8
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	20	1.8
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	4	1.8
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	6	1.8
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	15	1.8
(3,183)	1:23:A:SER:CB	1:66:A:LEU:H	2	1.8
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	8	1.8
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	15	1.8
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	18	1.8
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	4	1.79
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	8	1.79
(3,444)	1:69:A:SER:CB	1:93:A:ALA:H	19	1.79
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	15	1.79
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	13	1.79
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	12	1.79
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	14	1.79
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	12	1.79
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	1	1.79
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	19	1.79
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	5	1.78
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	2	1.78
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	17	1.78
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	16	1.78
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	6	1.78
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	5	1.78
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	16	1.78
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	2	1.78
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	6	1.78
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	17	1.78
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	14	1.78
(3,124)	1:16:A:GLY:H	1:32:A:ALA:CB	9	1.78
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	15	1.77
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	1	1.77
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	9	1.77
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	8	1.77
(3,180)	1:23:A:SER:CB	1:61:A:ASN:H	15	1.77
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	7	1.77
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	4	1.77
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	8	1.76
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	13	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	4	1.76
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	5	1.76
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	7	1.76
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	7	1.76
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	11	1.76
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	11	1.76
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	7	1.76
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	12	1.76
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	6	1.75
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	8	1.75
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	15	1.75
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	17	1.75
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	1	1.75
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	11	1.75
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	2	1.75
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	7	1.75
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	12	1.75
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	10	1.75
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	17	1.75
(3,57)	1:5:A:SER:CB	1:71:A:THR:H	5	1.75
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	10	1.74
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	3	1.74
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	15	1.74
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	1	1.74
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	5	1.74
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	17	1.74
(3,313)	1:41:A:GLY:H	1:83:A:SER:CB	16	1.74
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	14	1.74
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	6	1.74
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	9	1.74
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	17	1.74
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	1	1.74
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	2	1.74
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	12	1.73
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	6	1.73
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	8	1.73
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	2	1.73
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	19	1.73
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	12	1.73
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	20	1.73
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	8	1.73
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	4	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	13	1.73
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	10	1.73
(3,475)	1:76:A:MET:H	1:111:A:PRO:CB	13	1.72
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	5	1.72
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	11	1.72
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	16	1.72
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	3	1.72
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	19	1.72
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	3	1.72
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	19	1.72
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	9	1.72
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	14	1.71
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	16	1.71
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	5	1.71
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	15	1.71
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	18	1.71
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	6	1.71
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	8	1.71
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	14	1.7
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	9	1.7
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	12	1.7
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	9	1.7
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	14	1.7
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	15	1.7
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	2	1.7
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	8	1.7
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	1	1.7
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	7	1.7
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	7	1.7
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	5	1.69
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	19	1.69
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	15	1.69
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	6	1.69
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	13	1.69
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	4	1.69
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	5	1.69
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	15	1.68
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	7	1.68
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	1	1.68
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	13	1.68
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	5	1.68
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	19	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	15	1.68
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	14	1.67
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	20	1.67
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	9	1.67
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	14	1.67
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	13	1.67
(3,179)	1:23:A:SER:CB	1:60:A:ARG:H	9	1.67
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	1	1.67
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	1	1.67
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	6	1.66
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	18	1.66
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	10	1.66
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	15	1.66
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	7	1.66
(3,122)	1:15:A:PHE:H	1:96:A:SER:CB	4	1.66
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	20	1.66
(3,19)	1:5:A:SER:CB	1:18:A:ALA:H	6	1.66
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	16	1.66
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	1	1.65
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	20	1.65
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	2	1.65
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	20	1.65
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	5	1.65
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	13	1.65
(3,181)	1:23:A:SER:CB	1:64:A:VAL:H	17	1.65
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	10	1.65
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	13	1.65
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	16	1.65
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	16	1.65
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	2	1.64
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	5	1.64
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	3	1.64
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	11	1.64
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	16	1.64
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	5	1.64
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	2	1.64
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	6	1.64
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	19	1.64
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	8	1.64
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	7	1.64
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	3	1.64
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	17	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	19	1.63
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	9	1.63
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	17	1.63
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	9	1.63
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	17	1.63
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	7	1.63
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	7	1.63
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	18	1.63
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	14	1.62
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	20	1.62
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	19	1.62
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	18	1.62
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	9	1.62
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	20	1.62
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	3	1.62
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	16	1.62
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	8	1.61
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	5	1.61
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	3	1.61
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	9	1.61
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	6	1.61
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	17	1.61
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	9	1.61
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	4	1.61
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	9	1.61
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	14	1.61
(3,25)	1:5:A:SER:CB	1:25:A:GLY:H	6	1.61
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	4	1.61
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	20	1.6
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	12	1.6
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	10	1.6
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	12	1.6
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	11	1.6
(3,84)	1:6:A:SER:H	1:96:A:SER:CB	17	1.6
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	19	1.6
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	15	1.59
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	3	1.59
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	15	1.59
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	10	1.59
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	1	1.59
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	2	1.59
(3,244)	1:32:A:ALA:CB	1:51:A:GLY:H	18	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	2	1.59
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	5	1.59
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	9	1.59
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	14	1.59
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	17	1.59
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	4	1.59
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	18	1.59
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	1	1.59
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	6	1.59
(3,466)	1:72:A:LEU:H	1:96:A:SER:CB	12	1.58
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	19	1.58
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	19	1.58
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	8	1.58
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	1	1.57
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	14	1.57
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	11	1.57
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	6	1.57
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	14	1.57
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	11	1.57
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	20	1.57
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	16	1.57
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	5	1.57
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	11	1.56
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	16	1.56
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	17	1.56
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	5	1.56
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	7	1.56
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	9	1.56
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	1	1.56
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	10	1.56
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	8	1.56
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	5	1.56
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	8	1.56
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	11	1.56
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	2	1.56
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	8	1.56
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	4	1.56
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	12	1.56
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	17	1.56
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	1	1.55
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	8	1.55
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	18	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,234)	1:30:A:VAL:H	1:96:A:SER:CB	10	1.55
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	12	1.55
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	18	1.55
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	19	1.55
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	19	1.55
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	17	1.55
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	6	1.54
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	3	1.54
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	15	1.54
(3,322)	1:45:A:GLY:H	1:83:A:SER:CB	17	1.54
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	11	1.54
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	15	1.54
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	12	1.54
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	12	1.54
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	16	1.54
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	11	1.54
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	17	1.54
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	10	1.54
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	13	1.54
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	7	1.54
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	5	1.54
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	2	1.53
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	18	1.53
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	6	1.53
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	11	1.53
(3,129)	1:16:A:GLY:H	1:96:A:SER:CB	4	1.53
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	14	1.53
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	10	1.53
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	18	1.53
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	6	1.52
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	3	1.52
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	16	1.52
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	10	1.52
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	17	1.52
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	8	1.52
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	20	1.51
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	10	1.51
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	14	1.51
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	10	1.51
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	14	1.51
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	20	1.51
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	16	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	6	1.51
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	11	1.51
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	2	1.51
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	10	1.5
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	6	1.5
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	15	1.5
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	15	1.5
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	10	1.49
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	18	1.49
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	7	1.49
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	4	1.49
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	20	1.49
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	1	1.49
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	19	1.49
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	2	1.49
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	13	1.49
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	7	1.49
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	13	1.49
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	12	1.49
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	2	1.49
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	11	1.48
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	12	1.48
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	19	1.48
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	17	1.48
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	10	1.48
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	12	1.48
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	5	1.48
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	12	1.48
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	2	1.48
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	10	1.48
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	16	1.48
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	5	1.48
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	16	1.48
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	6	1.47
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	4	1.47
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	1	1.47
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	2	1.47
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	13	1.47
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	14	1.46
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	20	1.46
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	15	1.46
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	1	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	18	1.46
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	9	1.46
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	13	1.46
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	14	1.46
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	16	1.46
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	1	1.46
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	11	1.46
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	4	1.45
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	1	1.45
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	7	1.45
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	18	1.45
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	4	1.45
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	13	1.45
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	4	1.45
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	9	1.45
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	20	1.45
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	15	1.45
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	5	1.44
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	16	1.44
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	5	1.44
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	14	1.44
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	8	1.44
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	6	1.44
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	17	1.43
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	20	1.43
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	20	1.43
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	14	1.43
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	20	1.43
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	18	1.43
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	3	1.43
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	7	1.42
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	13	1.42
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	13	1.42
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	16	1.42
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	19	1.42
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	4	1.42
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	16	1.42
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	17	1.42
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	10	1.42
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	12	1.42
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	4	1.42
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	14	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,22)	1:5:A:SER:CB	1:22:A:ALA:H	6	1.42
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	1	1.42
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	20	1.41
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	9	1.41
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	9	1.41
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	18	1.41
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	18	1.41
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	2	1.41
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	17	1.41
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	18	1.41
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	12	1.41
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	12	1.41
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	4	1.41
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	11	1.41
(3,142)	1:18:A:ALA:H	1:83:A:SER:CB	4	1.41
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	13	1.41
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	7	1.41
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	2	1.4
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	4	1.4
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	13	1.4
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	11	1.4
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	11	1.4
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	2	1.4
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	12	1.4
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	11	1.39
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	16	1.39
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	7	1.39
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	12	1.39
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	12	1.39
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	2	1.39
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	14	1.39
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	15	1.39
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	4	1.39
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	9	1.39
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	3	1.38
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	6	1.38
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	13	1.38
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	1	1.38
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	5	1.38
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	17	1.38
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	14	1.38
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	14	1.37
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	18	1.37
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	8	1.37
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	5	1.37
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	1	1.37
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	12	1.37
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	1	1.37
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	7	1.37
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	13	1.37
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	15	1.37
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	16	1.36
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	4	1.36
(3,220)	1:25:A:GLY:H	1:56:A:SER:CB	4	1.36
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	6	1.36
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	9	1.36
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	17	1.36
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	2	1.36
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	10	1.36
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	7	1.36
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	15	1.36
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	10	1.35
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	11	1.35
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	3	1.35
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	8	1.35
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	17	1.35
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	10	1.35
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	18	1.35
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	19	1.35
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	14	1.35
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	12	1.35
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	6	1.35
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	4	1.35
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	10	1.34
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	6	1.34
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	18	1.34
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	10	1.34
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	10	1.34
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	12	1.34
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	17	1.34
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	18	1.34
(3,24)	1:5:A:SER:H	1:23:A:SER:CB	2	1.34
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	8	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	7	1.33
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	19	1.33
(3,343)	1:46:A:SER:H	1:83:A:SER:CB	9	1.33
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	1	1.33
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	11	1.33
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	14	1.33
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	13	1.33
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	14	1.33
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	15	1.33
(3,52)	1:5:A:SER:CB	1:67:A:ALA:H	8	1.33
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	3	1.33
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	7	1.32
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	15	1.32
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	18	1.32
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	18	1.32
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	15	1.32
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	9	1.32
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	20	1.32
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	10	1.32
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	19	1.31
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	19	1.31
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	18	1.31
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	3	1.31
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	19	1.31
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	11	1.31
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	2	1.31
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	15	1.31
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	14	1.31
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	20	1.31
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	6	1.31
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	18	1.31
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	13	1.31
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	19	1.31
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	7	1.31
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	7	1.3
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	15	1.3
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	6	1.3
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	6	1.3
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	12	1.3
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	3	1.3
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	1	1.3
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	15	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	20	1.3
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	3	1.3
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	19	1.3
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	10	1.3
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	15	1.3
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	6	1.29
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	8	1.29
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	9	1.29
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	8	1.29
(3,305)	1:39:A:ALA:H	1:96:A:SER:CB	15	1.29
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	3	1.29
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	13	1.29
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	5	1.29
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	1	1.29
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	16	1.29
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	7	1.28
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	15	1.28
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	15	1.28
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	12	1.28
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	1	1.28
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	10	1.28
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	13	1.28
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	20	1.28
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	12	1.28
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	3	1.28
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	19	1.28
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	7	1.28
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	10	1.28
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	9	1.28
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	7	1.27
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	17	1.27
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	20	1.27
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	4	1.27
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	12	1.27
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	10	1.26
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	9	1.26
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	13	1.26
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	19	1.26
(3,277)	1:32:A:ALA:CB	1:105:A:VAL:H	20	1.26
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	4	1.26
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	17	1.26
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	6	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	11	1.26
(3,6)	1:3:A:ASP:H	1:83:A:SER:CB	5	1.26
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	11	1.25
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	18	1.25
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	7	1.25
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	14	1.25
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	17	1.25
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	3	1.25
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	13	1.24
(3,386)	1:56:A:SER:CB	1:69:A:SER:H	12	1.24
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	2	1.24
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	19	1.24
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	4	1.24
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	20	1.24
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	7	1.24
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	19	1.24
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	3	1.24
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	5	1.24
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	13	1.24
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	10	1.24
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	19	1.24
(3,491)	1:83:A:SER:CB	1:110:A:ARG:H	4	1.23
(3,449)	1:69:A:SER:CB	1:97:A:LEU:H	12	1.23
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	15	1.23
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	7	1.23
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	2	1.23
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	7	1.23
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	1	1.23
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	8	1.23
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	16	1.23
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	16	1.22
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	12	1.22
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	4	1.22
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	2	1.22
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	13	1.22
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	6	1.22
(3,186)	1:23:A:SER:CB	1:69:A:SER:H	4	1.22
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	8	1.22
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	8	1.22
(3,135)	1:17:A:TYR:H	1:83:A:SER:CB	2	1.22
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	7	1.22
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	4	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	1	1.22
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	7	1.22
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	13	1.21
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	8	1.21
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	6	1.21
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	6	1.21
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	12	1.21
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	3	1.21
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	9	1.21
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	10	1.21
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	19	1.21
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	7	1.21
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	2	1.21
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	3	1.2
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	15	1.2
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	9	1.2
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	10	1.2
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	13	1.2
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	16	1.2
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	17	1.2
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	12	1.2
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	20	1.2
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	16	1.2
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	5	1.2
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	1	1.2
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	16	1.2
(3,64)	1:5:A:SER:H	1:83:A:SER:CB	14	1.2
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	18	1.19
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	10	1.19
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	6	1.19
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	14	1.19
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	3	1.19
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	6	1.19
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	16	1.19
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	2	1.19
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	9	1.19
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	20	1.18
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	2	1.18
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	6	1.18
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	9	1.18
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	12	1.18
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	2	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	1	1.18
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	2	1.18
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	11	1.18
(3,18)	1:5:A:SER:CB	1:17:A:TYR:H	6	1.18
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	2	1.18
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	17	1.17
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	14	1.17
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	13	1.17
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	14	1.17
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	7	1.17
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	9	1.17
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	8	1.17
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	17	1.17
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	16	1.17
(3,66)	1:5:A:SER:CB	1:89:A:ALA:H	5	1.17
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	16	1.16
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	5	1.16
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	11	1.16
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	10	1.16
(3,349)	1:46:A:SER:H	1:96:A:SER:CB	10	1.16
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	18	1.16
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	17	1.16
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	9	1.16
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	9	1.16
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	7	1.16
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	3	1.16
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	6	1.16
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	9	1.16
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	3	1.16
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	18	1.15
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	13	1.15
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	3	1.15
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	9	1.15
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	19	1.15
(3,138)	1:18:A:ALA:H	1:32:A:ALA:CB	18	1.15
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	15	1.15
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	16	1.15
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	12	1.14
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	13	1.14
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	6	1.14
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	17	1.14
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	15	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	2	1.14
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	16	1.14
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	12	1.14
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	18	1.14
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	8	1.14
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	13	1.14
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	3	1.13
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	19	1.13
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	1	1.13
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	15	1.13
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	5	1.13
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	1	1.13
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	5	1.13
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	5	1.13
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	8	1.13
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	15	1.13
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	11	1.13
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	7	1.12
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	11	1.12
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	17	1.12
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	11	1.12
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	3	1.12
(3,49)	1:5:A:SER:CB	1:62:A:VAL:H	8	1.12
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	14	1.12
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	19	1.11
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	5	1.11
(3,366)	1:51:A:GLY:H	1:83:A:SER:CB	8	1.11
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	14	1.11
(3,344)	1:46:A:SER:CB	1:86:A:PHE:H	7	1.11
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	11	1.11
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	10	1.11
(3,296)	1:35:A:VAL:H	1:111:A:PRO:CB	10	1.11
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	7	1.11
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	14	1.11
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	18	1.11
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	11	1.11
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	18	1.11
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	11	1.1
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	14	1.1
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	7	1.1
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	12	1.1
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	6	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	8	1.1
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	12	1.1
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	8	1.1
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	4	1.1
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	18	1.09
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	12	1.09
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	16	1.09
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	7	1.09
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	17	1.09
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	11	1.09
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	7	1.09
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	15	1.09
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	1	1.09
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	3	1.09
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	4	1.09
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	10	1.08
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	14	1.08
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	13	1.08
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	16	1.08
(3,363)	1:49:A:GLY:H	1:111:A:PRO:CB	6	1.08
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	1	1.08
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	19	1.08
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	5	1.08
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	15	1.08
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	12	1.07
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	3	1.07
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	5	1.07
(3,337)	1:46:A:SER:CB	1:74:A:GLY:H	20	1.07
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	16	1.07
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	2	1.07
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	6	1.07
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	10	1.07
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	19	1.07
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	1	1.07
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	3	1.07
(3,497)	1:87:A:MET:H	1:111:A:PRO:CB	16	1.06
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	6	1.06
(3,347)	1:46:A:SER:CB	1:95:A:ALA:H	2	1.06
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	15	1.06
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	16	1.06
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	5	1.06
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	19	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	3	1.06
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	5	1.06
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	8	1.06
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	3	1.06
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	13	1.06
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	8	1.05
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	11	1.05
(3,487)	1:83:A:SER:CB	1:105:A:VAL:H	20	1.05
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	9	1.05
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	2	1.05
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	16	1.05
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	17	1.05
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	14	1.04
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	3	1.04
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	3	1.04
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	19	1.04
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	16	1.04
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	20	1.04
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	3	1.04
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	13	1.04
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	20	1.04
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	5	1.04
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	7	1.04
(3,59)	1:5:A:SER:CB	1:73:A:ALA:H	20	1.04
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	20	1.04
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	15	1.04
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	7	1.04
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	11	1.03
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	10	1.03
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	3	1.03
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	5	1.03
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	4	1.03
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	12	1.03
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	6	1.03
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	15	1.03
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	15	1.02
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	13	1.02
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	11	1.02
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	14	1.02
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	7	1.02
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	8	1.02
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	19	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	11	1.02
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	1	1.02
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	1	1.01
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	9	1.01
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	6	1.01
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	11	1.01
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	16	1.01
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	9	1.01
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	2	1.01
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	14	1.01
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	4	1.01
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	7	1.01
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	2	1.01
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	10	1.01
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	17	1.01
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	20	1.01
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	18	1.01
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	13	1.01
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	9	1.01
(3,15)	1:4:A:THR:H	1:96:A:SER:CB	5	1.01
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	19	1.01
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	6	1.0
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	19	1.0
(3,314)	1:41:A:GLY:H	1:111:A:PRO:CB	16	1.0
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	3	1.0
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	5	1.0
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	5	1.0
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	14	1.0
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	3	1.0
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	3	1.0
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	19	0.99
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	14	0.99
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	11	0.99
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	4	0.99
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	5	0.99
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	16	0.99
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	7	0.99
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	8	0.99
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	1	0.99
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	14	0.99
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	17	0.99
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	8	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	2	0.99
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	15	0.99
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	14	0.99
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	19	0.99
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	16	0.99
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	13	0.98
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	1	0.98
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	5	0.98
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	5	0.98
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	9	0.98
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	8	0.98
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	3	0.98
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	10	0.98
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	20	0.97
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	13	0.97
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	8	0.97
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	18	0.97
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	20	0.97
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	11	0.97
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	16	0.97
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	4	0.96
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	19	0.96
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	1	0.96
(3,470)	1:74:A:GLY:H	1:96:A:SER:CB	12	0.96
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	20	0.96
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	9	0.96
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	3	0.96
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	7	0.96
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	5	0.96
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	20	0.96
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	5	0.95
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	17	0.95
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	3	0.95
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	1	0.95
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	14	0.95
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	4	0.95
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	15	0.95
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	10	0.95
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	9	0.95
(3,117)	1:14:A:GLY:H	1:56:A:SER:CB	7	0.95
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	17	0.95
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	12	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	12	0.94
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	17	0.94
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	16	0.94
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	20	0.94
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	7	0.94
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	17	0.94
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	13	0.94
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	14	0.93
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	3	0.93
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	7	0.93
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	13	0.93
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	14	0.93
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	3	0.93
(3,150)	1:20:A:LEU:H	1:96:A:SER:CB	18	0.93
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	5	0.92
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	12	0.92
(3,167)	1:23:A:SER:CB	1:42:A:LEU:H	10	0.92
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	15	0.92
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	6	0.92
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	20	0.92
(3,23)	1:5:A:SER:CB	1:23:A:SER:H	6	0.92
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	20	0.92
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	9	0.91
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	20	0.91
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	10	0.91
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	7	0.91
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	3	0.91
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	18	0.91
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	19	0.91
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	7	0.91
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	4	0.9
(3,481)	1:83:A:SER:CB	1:95:A:ALA:H	20	0.9
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	11	0.9
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	15	0.9
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	10	0.9
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	19	0.9
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	11	0.9
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	16	0.9
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	18	0.9
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	19	0.9
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	8	0.89
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	19	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	4	0.89
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	8	0.89
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	9	0.89
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	8	0.89
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	6	0.89
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	3	0.89
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	20	0.88
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	20	0.88
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	8	0.88
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	16	0.88
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	17	0.88
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	16	0.87
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	2	0.87
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	11	0.87
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	13	0.86
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	8	0.86
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	10	0.86
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	17	0.86
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	10	0.86
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	12	0.86
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	13	0.86
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	18	0.86
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	11	0.86
(3,196)	1:23:A:SER:H	1:83:A:SER:CB	4	0.86
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	15	0.86
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	11	0.86
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	13	0.86
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	18	0.86
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	19	0.86
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	5	0.86
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	18	0.85
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	1	0.85
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	20	0.85
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	4	0.85
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	2	0.85
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	1	0.85
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	20	0.85
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	16	0.85
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	9	0.84
(3,472)	1:75:A:ILE:H	1:96:A:SER:CB	11	0.84
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	10	0.84
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	3	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	7	0.84
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	15	0.84
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	13	0.84
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	17	0.84
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	12	0.84
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	13	0.83
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	18	0.83
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	6	0.83
(3,168)	1:23:A:SER:CB	1:44:A:PHE:H	16	0.83
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	9	0.83
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	18	0.83
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	19	0.83
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	9	0.83
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	14	0.83
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	16	0.82
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	14	0.82
(3,330)	1:46:A:SER:CB	1:66:A:LEU:H	13	0.82
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	6	0.82
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	6	0.82
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	10	0.82
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	15	0.82
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	18	0.81
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	15	0.81
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	12	0.81
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	12	0.81
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	16	0.81
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	15	0.81
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	18	0.81
(3,279)	1:32:A:ALA:CB	1:108:A:PHE:H	3	0.81
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	14	0.81
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	4	0.81
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	17	0.8
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	2	0.8
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	19	0.8
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	5	0.8
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	17	0.8
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	9	0.79
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	5	0.79
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	17	0.79
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	13	0.79
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	20	0.79
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	20	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	8	0.79
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	14	0.79
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	20	0.78
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	8	0.78
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	11	0.78
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	8	0.78
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	1	0.78
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	17	0.78
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	19	0.78
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	20	0.78
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	11	0.78
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	13	0.78
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	17	0.78
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	13	0.78
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	8	0.78
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	10	0.78
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	20	0.77
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	1	0.77
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	20	0.77
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	20	0.77
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	20	0.77
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	9	0.77
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	18	0.77
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	16	0.76
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	19	0.76
(3,446)	1:69:A:SER:CB	1:95:A:ALA:H	12	0.76
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	5	0.76
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	2	0.76
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	10	0.76
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	14	0.76
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	13	0.76
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	11	0.76
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	9	0.76
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	16	0.75
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	9	0.74
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	11	0.74
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	2	0.74
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	20	0.74
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	20	0.74
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	17	0.74
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	4	0.74
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	17	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	17	0.74
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	13	0.74
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	13	0.74
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	13	0.74
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	6	0.73
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	10	0.73
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	5	0.73
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	9	0.73
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	15	0.73
(3,127)	1:16:A:GLY:H	1:69:A:SER:CB	16	0.73
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	2	0.73
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	13	0.72
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	8	0.72
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	14	0.72
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	11	0.72
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	20	0.72
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	19	0.72
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	11	0.72
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	14	0.72
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	14	0.71
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	17	0.71
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	6	0.71
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	8	0.71
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	12	0.71
(3,109)	1:13:A:PHE:H	1:56:A:SER:CB	18	0.71
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	18	0.7
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	3	0.7
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	4	0.7
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	14	0.7
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	16	0.7
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	18	0.7
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	12	0.7
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	7	0.7
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	1	0.7
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	9	0.7
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	7	0.69
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	5	0.69
(3,312)	1:41:A:GLY:H	1:69:A:SER:CB	16	0.69
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	20	0.69
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	7	0.69
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	13	0.69
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	14	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	7	0.69
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	7	0.69
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	15	0.69
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	1	0.69
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	11	0.68
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	13	0.68
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	3	0.68
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	9	0.68
(3,332)	1:46:A:SER:CB	1:68:A:THR:H	1	0.68
(3,283)	1:33:A:GLY:H	1:46:A:SER:CB	10	0.68
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	4	0.68
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	6	0.68
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	4	0.67
(3,380)	1:55:A:LEU:H	1:83:A:SER:CB	16	0.67
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	1	0.67
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	3	0.67
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	17	0.67
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	20	0.67
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	18	0.67
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	20	0.67
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	7	0.67
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	5	0.66
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	7	0.66
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	19	0.66
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	18	0.66
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	8	0.66
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	16	0.66
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	10	0.66
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	5	0.66
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	7	0.66
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	12	0.66
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	3	0.66
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	2	0.66
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	16	0.66
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	7	0.66
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	15	0.66
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	10	0.65
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	17	0.65
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	14	0.65
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	1	0.65
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	13	0.65
(3,492)	1:83:A:SER:H	1:111:A:PRO:CB	4	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	1	0.64
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	3	0.64
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	10	0.64
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	11	0.64
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	9	0.64
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	15	0.64
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	16	0.64
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	16	0.63
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	10	0.63
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	6	0.63
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	14	0.63
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	17	0.63
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	11	0.63
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	7	0.63
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	13	0.63
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	6	0.62
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	17	0.62
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	7	0.62
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	9	0.62
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	11	0.62
(3,216)	1:24:A:GLY:H	1:83:A:SER:CB	15	0.62
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	1	0.62
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	3	0.62
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	10	0.62
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	12	0.62
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	20	0.62
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	13	0.61
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	9	0.61
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	17	0.61
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	12	0.61
(3,416)	1:61:A:ASN:H	1:83:A:SER:CB	2	0.61
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	1	0.61
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	2	0.61
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	15	0.6
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	7	0.6
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	3	0.6
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	11	0.6
(3,216)	1:24:A:GLY:H	1:83:A:SER:CB	8	0.6
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	10	0.6
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	14	0.6
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	2	0.6
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	15	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	11	0.59
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	18	0.59
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	17	0.59
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	3	0.58
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	9	0.58
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	19	0.58
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	20	0.58
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	9	0.58
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	10	0.58
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	5	0.58
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	18	0.58
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	11	0.58
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	14	0.58
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	16	0.57
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	7	0.57
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	6	0.57
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	8	0.57
(3,315)	1:42:A:LEU:H	1:69:A:SER:CB	12	0.57
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	12	0.57
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	14	0.57
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	10	0.57
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	8	0.56
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	8	0.56
(3,17)	1:5:A:SER:CB	1:16:A:GLY:H	6	0.56
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	19	0.55
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	1	0.55
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	18	0.55
(3,408)	1:57:A:GLN:H	1:69:A:SER:CB	17	0.55
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	18	0.55
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	3	0.55
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	3	0.54
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	3	0.54
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	11	0.54
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	14	0.54
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	10	0.54
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	11	0.54
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	12	0.53
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	3	0.53
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	19	0.53
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	10	0.53
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	2	0.53
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	5	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	6	0.53
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	11	0.53
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	7	0.53
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	14	0.53
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	4	0.53
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	10	0.52
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	13	0.52
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	15	0.52
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	16	0.52
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	20	0.52
(3,291)	1:34:A:SER:H	1:96:A:SER:CB	2	0.52
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	20	0.52
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	3	0.51
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	3	0.51
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	11	0.51
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	19	0.51
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	8	0.51
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	17	0.51
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	2	0.5
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	15	0.5
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	1	0.5
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	12	0.5
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	7	0.5
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	17	0.5
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	8	0.5
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	12	0.5
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	4	0.5
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	9	0.5
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	3	0.5
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	1	0.49
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	5	0.49
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	8	0.49
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	13	0.49
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	20	0.49
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	9	0.49
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	15	0.49
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	2	0.49
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	5	0.49
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	17	0.49
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	4	0.49
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	11	0.48
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	7	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	9	0.48
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	1	0.48
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	6	0.48
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	11	0.48
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	13	0.48
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	4	0.48
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	1	0.48
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	6	0.48
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	8	0.48
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	2	0.47
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	18	0.47
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	11	0.47
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	4	0.47
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	20	0.47
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	12	0.47
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	5	0.47
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	13	0.47
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	14	0.47
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	3	0.47
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	19	0.46
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	11	0.46
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	5	0.46
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	18	0.46
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	15	0.46
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	10	0.46
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	1	0.46
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	5	0.46
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	14	0.46
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	8	0.46
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	13	0.45
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	18	0.45
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	18	0.45
(3,331)	1:46:A:SER:CB	1:67:A:ALA:H	12	0.45
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	5	0.45
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	6	0.45
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	6	0.45
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	16	0.45
(3,128)	1:16:A:GLY:H	1:83:A:SER:CB	2	0.45
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	20	0.45
(3,20)	1:5:A:SER:CB	1:20:A:LEU:H	6	0.45
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	8	0.45
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	16	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	19	0.45
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	12	0.44
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	1	0.44
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	2	0.44
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	18	0.44
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	6	0.44
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	1	0.44
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	16	0.44
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	20	0.44
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	18	0.44
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	2	0.44
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	6	0.44
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	15	0.44
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	6	0.43
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	9	0.43
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	14	0.43
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	12	0.43
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	4	0.43
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	20	0.43
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	1	0.43
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	19	0.43
(3,205)	1:23:A:SER:CB	1:99:A:MET:H	4	0.43
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	10	0.43
(3,201)	1:23:A:SER:CB	1:95:A:ALA:H	16	0.43
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	3	0.43
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	3	0.43
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	9	0.43
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	12	0.43
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	7	0.43
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	17	0.42
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	18	0.42
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	14	0.42
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	1	0.42
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	2	0.42
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	10	0.42
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	6	0.42
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	17	0.42
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	16	0.42
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	18	0.42
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	18	0.42
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	11	0.42
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	12	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	13	0.42
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	14	0.41
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	10	0.41
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	18	0.41
(3,216)	1:24:A:GLY:H	1:83:A:SER:CB	16	0.41
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	11	0.41
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	15	0.41
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	7	0.41
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	19	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	6	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	11	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	12	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	13	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	15	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	16	0.41
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	19	0.41
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	14	0.4
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	6	0.4
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	5	0.4
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	15	0.4
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	15	0.4
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	17	0.4
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	15	0.4
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	19	0.4
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	3	0.4
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	1	0.4
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	2	0.4
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	10	0.4
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	17	0.4
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	9	0.4
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	7	0.4
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	9	0.4
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	8	0.4
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	9	0.39
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	14	0.39
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	1	0.39
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	16	0.39
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	5	0.39
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	9	0.39
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	13	0.39
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	1	0.39
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	5	0.39
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	8	0.39
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	19	0.39
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	2	0.39
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	16	0.39
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	19	0.39
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	3	0.39
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	8	0.39
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	20	0.39
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	2	0.38
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	6	0.38
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	7	0.38
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	14	0.38
(3,206)	1:23:A:SER:CB	1:101:A:ALA:H	4	0.38
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	10	0.38
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	19	0.38
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	6	0.38
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	17	0.38
(3,50)	1:5:A:SER:CB	1:63:A:TRP:H	14	0.38
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	12	0.38
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	13	0.38
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	15	0.38
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	1	0.38
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	4	0.38
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	5	0.38
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	10	0.38
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	14	0.38
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	3	0.38
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	8	0.37
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	20	0.37
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	13	0.37
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	9	0.37
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	6	0.37
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	16	0.37
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	18	0.37
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	8	0.37
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	6	0.37
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	14	0.37
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	20	0.37
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	16	0.37
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	2	0.37
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	9	0.37
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	9	0.36
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	15	0.36
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	11	0.36
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	7	0.36
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	1	0.36
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	8	0.36
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	14	0.36
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	12	0.36
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	19	0.36
(2,30)	1:39:A:ALA:O	1:43:A:LEU:N	17	0.36
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	1	0.36
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	5	0.36
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	14	0.36
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	18	0.36
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	8	0.36
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	10	0.36
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	13	0.36
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	20	0.36
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	6	0.35
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	7	0.35
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	2	0.35
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	3	0.35
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	1	0.35
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	9	0.35
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	5	0.35
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	19	0.35
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	11	0.35
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	1	0.35
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	3	0.35
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	7	0.35
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	8	0.35
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	12	0.35
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	2	0.35
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	3	0.35
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	6	0.35
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	17	0.35
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	20	0.35
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	4	0.35
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	9	0.35
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	10	0.35
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	8	0.35
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	5	0.34
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	17	0.34
(3,429)	1:66:A:LEU:H	1:83:A:SER:CB	13	0.34
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	15	0.34
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	14	0.34
(3,273)	1:32:A:ALA:H	1:96:A:SER:CB	10	0.34
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	6	0.34
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	18	0.34
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	12	0.34
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	10	0.34
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	15	0.34
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	15	0.34
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	2	0.34
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	3	0.34
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	2	0.34
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	5	0.34
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	9	0.34
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	10	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	4	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	8	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	9	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	10	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	13	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	14	0.34
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	18	0.34
(2,25)	1:36:A:PRO:O	1:40:A:ALA:N	15	0.34
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	17	0.34
(2,24)	1:35:A:VAL:O	1:39:A:ALA:N	18	0.34
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	12	0.34
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	14	0.34
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	18	0.34
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	18	0.34
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	19	0.34
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	20	0.33
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	14	0.33
(3,393)	1:56:A:SER:CB	1:89:A:ALA:H	15	0.33
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	3	0.33
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	2	0.33
(3,172)	1:23:A:SER:CB	1:49:A:GLY:H	16	0.33
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	1	0.33
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	12	0.33
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	14	0.33
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	9	0.33
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	20	0.33
(3,104)	1:12:A:TRP:H	1:96:A:SER:CB	5	0.33
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	14	0.33
(3,44)	1:5:A:SER:CB	1:55:A:LEU:H	12	0.33
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	20	0.33
(2,53)	1:66:A:LEU:O	1:70:A:GLY:N	12	0.33
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	11	0.33
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	5	0.33
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	7	0.33
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	11	0.33
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	19	0.33
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	20	0.33
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	8	0.33
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	9	0.33
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	20	0.33
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	1	0.33
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	3	0.33
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	12	0.33
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	10	0.33
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	13	0.33
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	17	0.32
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	20	0.32
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	4	0.32
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	19	0.32
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	8	0.32
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	15	0.32
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	8	0.32
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	2	0.32
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	8	0.32
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	18	0.32
(3,6)	1:3:A:ASP:H	1:83:A:SER:CB	15	0.32
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	18	0.32
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	19	0.32
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	13	0.32
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	19	0.32
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	2	0.32
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	5	0.32
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	11	0.32
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	19	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	5	0.32
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	18	0.32
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	7	0.32
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	17	0.32
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	13	0.32
(2,33)	1:42:A:LEU:O	1:46:A:SER:N	1	0.32
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	14	0.32
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	15	0.32
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	19	0.32
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	10	0.32
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	11	0.32
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	13	0.32
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	2	0.32
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	6	0.32
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	11	0.32
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	19	0.32
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	5	0.32
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	19	0.32
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	9	0.32
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	7	0.32
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	2	0.31
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	12	0.31
(3,489)	1:83:A:SER:CB	1:108:A:PHE:H	14	0.31
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	8	0.31
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	8	0.31
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	10	0.31
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	2	0.31
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	17	0.31
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	3	0.31
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	19	0.31
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	2	0.31
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	9	0.31
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	13	0.31
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	11	0.31
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	2	0.31
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	19	0.31
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	15	0.31
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	6	0.31
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	13	0.31
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	5	0.31
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	11	0.31
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	2	0.31
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	7	0.31
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	12	0.31
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	14	0.31
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	16	0.31
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	18	0.31
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	9	0.31
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	12	0.31
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	14	0.31
(2,39)	1:48:A:ALA:O	1:52:A:ALA:N	15	0.31
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	2	0.31
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	13	0.31
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	15	0.31
(2,25)	1:36:A:PRO:O	1:40:A:ALA:N	16	0.31
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	5	0.31
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	11	0.31
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	12	0.31
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	2	0.31
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	12	0.31
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	14	0.31
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	15	0.31
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	18	0.31
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	9	0.31
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	7	0.31
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	15	0.31
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	16	0.31
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	2	0.31
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	12	0.31
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	17	0.31
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	2	0.31
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	17	0.31
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	3	0.3
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	4	0.3
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	7	0.3
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	12	0.3
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	13	0.3
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	8	0.3
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	7	0.3
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	4	0.3
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	10	0.3
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	14	0.3
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	20	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	5	0.3
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	6	0.3
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	20	0.3
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	19	0.3
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	2	0.3
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	6	0.3
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	11	0.3
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	13	0.3
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	5	0.3
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	8	0.3
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	9	0.3
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	15	0.3
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	19	0.3
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	1	0.3
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	7	0.3
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	12	0.3
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	2	0.3
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	2	0.3
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	8	0.3
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	16	0.3
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	6	0.3
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	1	0.3
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	18	0.3
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	1	0.3
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	11	0.3
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	20	0.3
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	4	0.3
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	19	0.3
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	9	0.3
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	6	0.3
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	8	0.3
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	18	0.3
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	1	0.3
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	7	0.3
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	16	0.3
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	17	0.3
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	19	0.3
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	13	0.3
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	14	0.3
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	19	0.3
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	4	0.3
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	4	0.3
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	7	0.3
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	20	0.3
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	6	0.3
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	16	0.3
(3,496)	1:86:A:PHE:H	1:111:A:PRO:CB	1	0.29
(3,488)	1:83:A:SER:CB	1:106:A:SER:H	20	0.29
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	16	0.29
(3,476)	1:78:A:MET:H	1:83:A:SER:CB	17	0.29
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	1	0.29
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	15	0.29
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	11	0.29
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	9	0.29
(3,147)	1:20:A:LEU:H	1:56:A:SER:CB	5	0.29
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	1	0.29
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	5	0.29
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	16	0.29
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	4	0.29
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	10	0.29
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	13	0.29
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	8	0.29
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	12	0.29
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	18	0.29
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	1	0.29
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	3	0.29
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	7	0.29
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	6	0.29
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	7	0.29
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	10	0.29
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	16	0.29
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	20	0.29
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	4	0.29
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	6	0.29
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	17	0.29
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	20	0.29
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	11	0.29
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	6	0.29
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	15	0.29
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	2	0.29
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	3	0.29
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	16	0.29
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	9	0.29
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	16	0.29
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	10	0.29
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	2	0.29
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	4	0.29
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	6	0.29
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	2	0.29
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	8	0.29
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	12	0.29
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	18	0.29
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	20	0.29
(2,9)	1:14:A:GLY:O	1:18:A:ALA:N	5	0.29
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	4	0.29
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	12	0.29
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	1	0.28
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	9	0.28
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	16	0.28
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	19	0.28
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	7	0.28
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	4	0.28
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	8	0.28
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	3	0.28
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	3	0.28
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	20	0.28
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	6	0.28
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	1	0.28
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	2	0.28
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	8	0.28
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	11	0.28
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	12	0.28
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	3	0.28
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	4	0.28
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	7	0.28
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	8	0.28
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	9	0.28
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	16	0.28
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	3	0.28
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	8	0.28
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	14	0.28
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	5	0.28
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	9	0.28
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	3	0.28
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	4	0.28
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	9	0.28
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	20	0.28
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	19	0.28
(2,39)	1:48:A:ALA:O	1:52:A:ALA:N	8	0.28
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	19	0.28
(2,35)	1:44:A:PHE:O	1:48:A:ALA:N	17	0.28
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	13	0.28
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	9	0.28
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	18	0.28
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	8	0.28
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	11	0.28
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	3	0.28
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	3	0.28
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	6	0.28
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	14	0.28
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	15	0.28
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	20	0.28
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	13	0.28
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	15	0.28
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	1	0.27
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	6	0.27
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	5	0.27
(3,389)	1:56:A:SER:CB	1:71:A:THR:H	12	0.27
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	4	0.27
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	2	0.27
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	10	0.27
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	20	0.27
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	13	0.27
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	4	0.27
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	8	0.27
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	3	0.27
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	7	0.27
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	17	0.27
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	2	0.27
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	15	0.27
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	14	0.27
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	15	0.27
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	4	0.27
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	10	0.27
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	17	0.27
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	9	0.27
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	3	0.27
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	10	0.27
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	1	0.27
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	10	0.27
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	17	0.27
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	15	0.27
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	5	0.27
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	8	0.27
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	12	0.27
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	14	0.27
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	6	0.27
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	15	0.27
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	12	0.27
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	7	0.27
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	9	0.27
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	7	0.27
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	13	0.27
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	16	0.27
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	4	0.27
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	6	0.27
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	10	0.27
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	17	0.27
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	6	0.27
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	3	0.27
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	18	0.27
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	6	0.27
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	18	0.26
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	3	0.26
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	10	0.26
(3,340)	1:46:A:SER:CB	1:78:A:MET:H	8	0.26
(3,271)	1:32:A:ALA:CB	1:89:A:ALA:H	17	0.26
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	19	0.26
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	2	0.26
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	16	0.26
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	17	0.26
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	20	0.26
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	11	0.26
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	15	0.26
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	8	0.26
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	1	0.26
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	11	0.26
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	12	0.26
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	14	0.26
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	17	0.26
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	10	0.26
(2,56)	1:69:A:SER:O	1:73:A:ALA:N	18	0.26
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	17	0.26
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	1	0.26
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	2	0.26
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	8	0.26
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	13	0.26
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	16	0.26
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	17	0.26
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	10	0.26
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	13	0.26
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	16	0.26
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	4	0.26
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	1	0.26
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	3	0.26
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	10	0.26
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	18	0.26
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	13	0.26
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	16	0.26
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	6	0.26
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	6	0.26
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	1	0.26
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	16	0.26
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	1	0.26
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	16	0.26
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	14	0.26
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	17	0.26
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	8	0.26
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	9	0.26
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	13	0.26
(3,391)	1:56:A:SER:CB	1:82:A:HIS:H	18	0.25
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	18	0.25
(3,298)	1:38:A:LEU:H	1:56:A:SER:CB	4	0.25
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	12	0.25
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	17	0.25
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	11	0.25
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	4	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	4	0.25
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	15	0.25
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	13	0.25
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	14	0.25
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	9	0.25
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	10	0.25
(2,67)	1:96:A:SER:O	1:100:A:VAL:N	16	0.25
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	6	0.25
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	16	0.25
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	16	0.25
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	20	0.25
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	7	0.25
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	17	0.25
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	8	0.25
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	3	0.25
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	15	0.25
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	18	0.25
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	6	0.25
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	20	0.25
(2,50)	1:63:A:TRP:O	1:67:A:ALA:N	7	0.25
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	4	0.25
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	6	0.25
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	20	0.25
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	8	0.25
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	10	0.25
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	19	0.25
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	20	0.25
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	14	0.25
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	20	0.25
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	10	0.25
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	2	0.25
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	20	0.25
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	15	0.25
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	11	0.25
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	15	0.25
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	1	0.25
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	18	0.25
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	2	0.25
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	20	0.24
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	13	0.24
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	2	0.24
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	13	0.24
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	12	0.24
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	3	0.24
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	10	0.24
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	19	0.24
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	9	0.24
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	15	0.24
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	10	0.24
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	7	0.24
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	9	0.24
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	16	0.24
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	8	0.24
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	9	0.24
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	5	0.24
(2,56)	1:69:A:SER:O	1:73:A:ALA:N	14	0.24
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	9	0.24
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	1	0.24
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	4	0.24
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	19	0.24
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	14	0.24
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	13	0.24
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	20	0.24
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	3	0.24
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	15	0.24
(2,39)	1:48:A:ALA:O	1:52:A:ALA:N	16	0.24
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	4	0.24
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	6	0.24
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	5	0.24
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	19	0.24
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	1	0.24
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	4	0.24
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	10	0.24
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	15	0.24
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	4	0.24
(2,13)	1:18:A:ALA:O	1:22:A:ALA:N	5	0.24
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	3	0.24
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	3	0.24
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	10	0.24
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	12	0.24
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	3	0.24
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	19	0.23
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	20	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	1	0.23
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	9	0.23
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	11	0.23
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	12	0.23
(3,376)	1:54:A:GLN:H	1:83:A:SER:CB	12	0.23
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	10	0.23
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	8	0.23
(3,242)	1:32:A:ALA:H	1:46:A:SER:CB	17	0.23
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	16	0.23
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	13	0.23
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	10	0.23
(3,54)	1:5:A:SER:CB	1:69:A:SER:H	20	0.23
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	11	0.23
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	6	0.23
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	7	0.23
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	13	0.23
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	19	0.23
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	9	0.23
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	4	0.23
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	13	0.23
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	5	0.23
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	15	0.23
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	12	0.23
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	15	0.23
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	11	0.23
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	16	0.23
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	15	0.23
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	8	0.23
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	13	0.23
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	7	0.23
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	17	0.23
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	14	0.23
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	15	0.23
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	6	0.23
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	7	0.23
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	13	0.23
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	18	0.23
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	19	0.23
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	2	0.23
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	3	0.23
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	16	0.23
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	12	0.23
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	19	0.23
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	4	0.23
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	4	0.22
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	5	0.22
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	15	0.22
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	6	0.22
(3,178)	1:23:A:SER:H	1:56:A:SER:CB	17	0.22
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	8	0.22
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	3	0.22
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	13	0.22
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	1	0.22
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	11	0.22
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	10	0.22
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	16	0.22
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	17	0.22
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	19	0.22
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	12	0.22
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	9	0.22
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	15	0.22
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	4	0.22
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	18	0.22
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	1	0.22
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	3	0.22
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	14	0.22
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	7	0.22
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	5	0.22
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	5	0.22
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	7	0.22
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	8	0.22
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	11	0.22
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	12	0.22
(2,31)	1:40:A:ALA:O	1:44:A:PHE:N	17	0.22
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	3	0.22
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	5	0.22
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	14	0.22
(2,12)	1:17:A:TYR:O	1:21:A:VAL:N	7	0.22
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	11	0.22
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	14	0.22
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	16	0.22
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	6	0.21
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	18	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	5	0.21
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	11	0.21
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	20	0.21
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	3	0.21
(3,356)	1:46:A:SER:CB	1:108:A:PHE:H	2	0.21
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	14	0.21
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	1	0.21
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	15	0.21
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	19	0.21
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	11	0.21
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	17	0.21
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	6	0.21
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	3	0.21
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	9	0.21
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	14	0.21
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	20	0.21
(2,53)	1:66:A:LEU:O	1:70:A:GLY:N	18	0.21
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	10	0.21
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	7	0.21
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	19	0.21
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	14	0.21
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	12	0.21
(2,34)	1:43:A:LEU:O	1:47:A:LEU:N	16	0.21
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	3	0.21
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	12	0.21
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	17	0.21
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	12	0.21
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	2	0.21
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	17	0.21
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	18	0.21
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	19	0.21
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	12	0.2
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	20	0.2
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	6	0.2
(3,480)	1:82:A:HIS:H	1:111:A:PRO:CB	2	0.2
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	18	0.2
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	9	0.2
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	17	0.2
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	16	0.2
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	13	0.2
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	1	0.2
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	7	0.2
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	11	0.2
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	11	0.2
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	14	0.2
(3,9)	1:4:A:THR:H	1:23:A:SER:CB	18	0.2
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	11	0.2
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	16	0.2
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	10	0.2
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	2	0.2
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	16	0.2
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	18	0.2
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	6	0.2
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	8	0.2
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	20	0.2
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	4	0.2
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	11	0.2
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	2	0.2
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	2	0.2
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	6	0.2
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	14	0.2
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	18	0.2
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	5	0.2
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	7	0.2
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	10	0.2
(2,18)	1:23:A:SER:O	1:27:A:ILE:N	15	0.2
(2,18)	1:23:A:SER:O	1:27:A:ILE:N	16	0.2
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	3	0.2
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	7	0.2
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	8	0.2
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	9	0.2
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	15	0.2
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	11	0.2
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	8	0.19
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	10	0.19
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	19	0.19
(3,197)	1:23:A:SER:CB	1:86:A:PHE:H	17	0.19
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	1	0.19
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	3	0.19
(3,133)	1:17:A:TYR:H	1:56:A:SER:CB	8	0.19
(3,40)	1:5:A:SER:CB	1:49:A:GLY:H	8	0.19
(3,13)	1:4:A:THR:H	1:69:A:SER:CB	20	0.19
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	6	0.19
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	12	0.19
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	7	0.19
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	3	0.19
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	18	0.19
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	19	0.19
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	11	0.19
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	8	0.19
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	17	0.19
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	13	0.19
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	12	0.19
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	1	0.19
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	4	0.19
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	8	0.19
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	16	0.19
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	6	0.19
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	11	0.19
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	11	0.19
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	11	0.19
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	12	0.19
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	2	0.19
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	15	0.19
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	1	0.19
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	11	0.19
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	15	0.19
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	20	0.18
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	10	0.18
(3,485)	1:83:A:SER:CB	1:100:A:VAL:H	13	0.18
(3,474)	1:76:A:MET:H	1:96:A:SER:CB	11	0.18
(3,445)	1:69:A:SER:CB	1:94:A:GLY:H	16	0.18
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	3	0.18
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	10	0.18
(3,328)	1:46:A:SER:CB	1:61:A:ASN:H	15	0.18
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	1	0.18
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	14	0.18
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	6	0.18
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	15	0.18
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	16	0.18
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	7	0.18
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	13	0.18
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	16	0.18
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	9	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	12	0.18
(2,69)	1:98:A:LEU:O	1:102:A:LYS:N	3	0.18
(2,69)	1:98:A:LEU:O	1:102:A:LYS:N	7	0.18
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	10	0.18
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	11	0.18
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	1	0.18
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	2	0.18
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	12	0.18
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	17	0.18
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	13	0.18
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	17	0.18
(2,35)	1:44:A:PHE:O	1:48:A:ALA:N	14	0.18
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	4	0.18
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	19	0.18
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	7	0.18
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	18	0.18
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	19	0.18
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	4	0.18
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	16	0.18
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	18	0.17
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	9	0.17
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	18	0.17
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	4	0.17
(3,647)	1:25:A:GLY:H	1:111:A:PRO:CB	15	0.17
(3,617)	1:23:A:SER:CB	1:53:A:TYR:H	14	0.17
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	13	0.17
(3,439)	1:69:A:SER:CB	1:83:A:SER:H	4	0.17
(3,435)	1:68:A:THR:H	1:83:A:SER:CB	7	0.17
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	14	0.17
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	14	0.17
(3,357)	1:46:A:SER:CB	1:109:A:ASN:H	1	0.17
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	2	0.17
(3,157)	1:21:A:VAL:H	1:96:A:SER:CB	6	0.17
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	8	0.17
(3,38)	1:5:A:SER:CB	1:46:A:SER:H	18	0.17
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	8	0.17
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	14	0.17
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	17	0.17
(2,69)	1:98:A:LEU:O	1:102:A:LYS:N	14	0.17
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	5	0.17
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	13	0.17
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	4	0.17
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	11	0.17
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	17	0.17
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	4	0.17
(2,55)	1:68:A:THR:O	1:72:A:LEU:N	19	0.17
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	20	0.17
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	16	0.17
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	1	0.17
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	13	0.17
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	18	0.17
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	19	0.17
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	17	0.17
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	5	0.17
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	17	0.17
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	6	0.17
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	5	0.17
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	14	0.16
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	18	0.16
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	14	0.16
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	20	0.16
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	4	0.16
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	3	0.16
(3,421)	1:63:A:TRP:H	1:83:A:SER:CB	17	0.16
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	7	0.16
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	15	0.16
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	19	0.16
(3,99)	1:11:A:HIS:H	1:56:A:SER:CB	10	0.16
(3,82)	1:6:A:SER:H	1:69:A:SER:CB	6	0.16
(3,53)	1:5:A:SER:CB	1:68:A:THR:H	9	0.16
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	5	0.16
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	18	0.16
(2,163)	1:61:A:ASN:O	1:65:A:PHE:H	16	0.16
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	19	0.16
(2,125)	1:37:A:SER:O	1:41:A:GLY:H	10	0.16
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	3	0.16
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	4	0.16
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	5	0.16
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	13	0.16
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	20	0.16
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	17	0.16
(2,70)	1:99:A:MET:O	1:103:A:VAL:N	1	0.16
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	3	0.16
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	11	0.16
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	17	0.16
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	15	0.16
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	12	0.16
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	9	0.16
(2,44)	1:60:A:ARG:O	1:64:A:VAL:N	11	0.16
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	11	0.16
(2,20)	1:25:A:GLY:O	1:29:A:TYR:N	17	0.16
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	1	0.16
(2,17)	1:22:A:ALA:O	1:26:A:ILE:N	9	0.16
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	13	0.15
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	2	0.15
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	5	0.15
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	15	0.15
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	16	0.15
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	13	0.15
(3,362)	1:49:A:GLY:H	1:96:A:SER:CB	15	0.15
(3,287)	1:34:A:SER:H	1:46:A:SER:CB	19	0.15
(3,223)	1:25:A:GLY:H	1:96:A:SER:CB	15	0.15
(3,182)	1:23:A:SER:CB	1:65:A:PHE:H	4	0.15
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	14	0.15
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	12	0.15
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	20	0.15
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	15	0.15
(3,1)	1:3:A:ASP:H	1:23:A:SER:CB	14	0.15
(2,155)	1:59:A:PRO:O	1:63:A:TRP:H	16	0.15
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	10	0.15
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	12	0.15
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	16	0.15
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	19	0.15
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	10	0.15
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	1	0.15
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	10	0.15
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	18	0.15
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	18	0.15
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	17	0.15
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	7	0.15
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	14	0.15
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	18	0.15
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	7	0.15
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	16	0.15
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	19	0.15
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	5	0.15
(2,51)	1:64:A:VAL:O	1:68:A:THR:N	18	0.15
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	1	0.15
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	2	0.15
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	4	0.15
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	5	0.15
(2,36)	1:45:A:GLY:O	1:49:A:GLY:N	14	0.15
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	17	0.15
(2,25)	1:36:A:PRO:O	1:40:A:ALA:N	18	0.15
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	8	0.15
(2,16)	1:21:A:VAL:O	1:25:A:GLY:N	6	0.15
(2,11)	1:16:A:GLY:O	1:20:A:LEU:N	18	0.15
(2,7)	1:12:A:TRP:O	1:16:A:GLY:N	6	0.15
(2,7)	1:12:A:TRP:O	1:16:A:GLY:N	19	0.15
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	5	0.15
(3,766)	1:56:A:SER:H	1:83:A:SER:CB	14	0.14
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	4	0.14
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	15	0.14
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	19	0.14
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	12	0.14
(3,682)	1:34:A:SER:H	1:83:A:SER:CB	9	0.14
(3,682)	1:34:A:SER:H	1:83:A:SER:CB	18	0.14
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	4	0.14
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	11	0.14
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	9	0.14
(3,359)	1:46:A:SER:CB	1:112:A:HIS:H	19	0.14
(3,292)	1:34:A:SER:H	1:111:A:PRO:CB	13	0.14
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	5	0.14
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	12	0.14
(3,165)	1:23:A:SER:CB	1:40:A:ALA:H	20	0.14
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	19	0.14
(3,65)	1:5:A:SER:CB	1:86:A:PHE:H	1	0.14
(3,6)	1:3:A:ASP:H	1:83:A:SER:CB	12	0.14
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	1	0.14
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	3	0.14
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	13	0.14
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	6	0.14
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	15	0.14
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	1	0.14
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	20	0.14
(2,109)	1:24:A:GLY:O	1:28:A:GLY:H	3	0.14
(2,109)	1:24:A:GLY:O	1:28:A:GLY:H	9	0.14
(2,109)	1:24:A:GLY:O	1:28:A:GLY:H	17	0.14
(2,81)	1:11:A:HIS:O	1:15:A:PHE:H	8	0.14
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	3	0.14
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	8	0.14
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	9	0.14
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	11	0.14
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	15	0.14
(2,69)	1:98:A:LEU:O	1:102:A:LYS:N	15	0.14
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	19	0.14
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	2	0.14
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	7	0.14
(2,59)	1:90:A:GLY:O	1:94:A:GLY:N	13	0.14
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	7	0.14
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	13	0.14
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	15	0.14
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	1	0.14
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	15	0.14
(2,5)	1:11:A:HIS:O	1:15:A:PHE:N	7	0.14
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	17	0.14
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	3	0.13
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	7	0.13
(3,682)	1:34:A:SER:H	1:83:A:SER:CB	5	0.13
(3,682)	1:34:A:SER:H	1:83:A:SER:CB	14	0.13
(3,682)	1:34:A:SER:H	1:83:A:SER:CB	20	0.13
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	3	0.13
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	20	0.13
(3,375)	1:54:A:GLN:H	1:69:A:SER:CB	8	0.13
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	12	0.13
(3,149)	1:20:A:LEU:H	1:83:A:SER:CB	18	0.13
(3,110)	1:13:A:PHE:H	1:69:A:SER:CB	5	0.13
(3,83)	1:6:A:SER:H	1:83:A:SER:CB	16	0.13
(3,55)	1:5:A:SER:H	1:69:A:SER:CB	14	0.13
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	5	0.13
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	18	0.13
(2,153)	1:50:A:LEU:O	1:53:A:TYR:H	18	0.13
(2,147)	1:47:A:LEU:O	1:51:A:GLY:H	4	0.13
(2,139)	1:43:A:LEU:O	1:47:A:LEU:H	18	0.13
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	11	0.13
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	18	0.13
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	13	0.13
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	19	0.13
(2,121)	1:36:A:PRO:O	1:40:A:ALA:H	15	0.13
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	7	0.13
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	9	0.13
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	14	0.13
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	17	0.13
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	18	0.13
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	11	0.13
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	5	0.13
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	2	0.13
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	4	0.13
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	6	0.13
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	12	0.13
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	16	0.13
(2,75)	1:10:A:LEU:O	1:13:A:PHE:H	19	0.13
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	8	0.13
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	5	0.13
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	9	0.13
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	5	0.13
(2,57)	1:70:A:GLY:O	1:74:A:GLY:N	18	0.13
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	4	0.13
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	2	0.13
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	10	0.13
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	20	0.13
(2,16)	1:21:A:VAL:O	1:25:A:GLY:N	5	0.13
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	1	0.13
(2,7)	1:12:A:TRP:O	1:16:A:GLY:N	7	0.13
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	5	0.12
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	8	0.12
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	4	0.12
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	5	0.12
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	17	0.12
(3,704)	1:45:A:GLY:H	1:56:A:SER:CB	11	0.12
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	6	0.12
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	8	0.12
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	18	0.12
(3,546)	1:5:A:SER:CB	1:96:A:SER:H	12	0.12
(3,546)	1:5:A:SER:CB	1:96:A:SER:H	20	0.12
(3,493)	1:83:A:SER:CB	1:112:A:HIS:H	16	0.12
(3,468)	1:73:A:ALA:H	1:96:A:SER:CB	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,440)	1:69:A:SER:H	1:83:A:SER:CB	2	0.12
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	3	0.12
(3,323)	1:45:A:GLY:H	1:96:A:SER:CB	14	0.12
(3,278)	1:32:A:ALA:CB	1:106:A:SER:H	4	0.12
(3,140)	1:18:A:ALA:H	1:56:A:SER:CB	11	0.12
(3,136)	1:17:A:TYR:H	1:96:A:SER:CB	8	0.12
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	10	0.12
(3,126)	1:16:A:GLY:H	1:56:A:SER:CB	17	0.12
(3,81)	1:6:A:SER:H	1:56:A:SER:CB	12	0.12
(3,63)	1:5:A:SER:CB	1:83:A:SER:H	18	0.12
(3,41)	1:5:A:SER:CB	1:51:A:GLY:H	6	0.12
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	4	0.12
(3,14)	1:4:A:THR:H	1:83:A:SER:CB	7	0.12
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	6	0.12
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	14	0.12
(2,147)	1:47:A:LEU:O	1:51:A:GLY:H	19	0.12
(2,147)	1:47:A:LEU:O	1:51:A:GLY:H	20	0.12
(2,140)	1:43:A:LEU:O	1:47:A:LEU:N	18	0.12
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	4	0.12
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	6	0.12
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	9	0.12
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	17	0.12
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	6	0.12
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	12	0.12
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	18	0.12
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	6	0.12
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	11	0.12
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	12	0.12
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	15	0.12
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	6	0.12
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	8	0.12
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	12	0.12
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	11	0.12
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	12	0.12
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	13	0.12
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	5	0.12
(2,119)	1:35:A:VAL:O	1:39:A:ALA:H	20	0.12
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	4	0.12
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	2	0.12
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	11	0.12
(2,111)	1:25:A:GLY:O	1:29:A:TYR:H	5	0.12
(2,111)	1:25:A:GLY:O	1:29:A:TYR:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,81)	1:11:A:HIS:O	1:15:A:PHE:H	10	0.12
(2,81)	1:11:A:HIS:O	1:15:A:PHE:H	13	0.12
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	14	0.12
(2,68)	1:97:A:LEU:O	1:101:A:ALA:N	5	0.12
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	15	0.12
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	16	0.12
(2,62)	1:93:A:ALA:O	1:97:A:LEU:N	19	0.12
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	1	0.12
(2,61)	1:92:A:ILE:O	1:96:A:SER:N	17	0.12
(2,60)	1:91:A:LEU:O	1:95:A:ALA:N	10	0.12
(2,54)	1:67:A:ALA:O	1:71:A:THR:N	12	0.12
(2,46)	1:61:A:ASN:O	1:65:A:PHE:N	15	0.12
(2,42)	1:59:A:PRO:O	1:63:A:TRP:N	20	0.12
(2,38)	1:47:A:LEU:O	1:51:A:GLY:N	19	0.12
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	4	0.12
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	9	0.12
(2,25)	1:36:A:PRO:O	1:40:A:ALA:N	9	0.12
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	14	0.12
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	9	0.12
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	1	0.12
(2,1)	1:9:A:PRO:O	1:13:A:PHE:N	9	0.12
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	2	0.11
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	16	0.11
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	17	0.11
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	10	0.11
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	20	0.11
(3,654)	1:31:A:LYS:H	1:96:A:SER:CB	8	0.11
(3,647)	1:25:A:GLY:H	1:111:A:PRO:CB	12	0.11
(3,647)	1:25:A:GLY:H	1:111:A:PRO:CB	16	0.11
(3,647)	1:25:A:GLY:H	1:111:A:PRO:CB	18	0.11
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	5	0.11
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	10	0.11
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	11	0.11
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	13	0.11
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	19	0.11
(3,617)	1:23:A:SER:CB	1:53:A:TYR:H	2	0.11
(3,494)	1:84:A:GLY:H	1:111:A:PRO:CB	5	0.11
(3,479)	1:82:A:HIS:H	1:96:A:SER:CB	1	0.11
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	3	0.11
(3,358)	1:46:A:SER:CB	1:110:A:ARG:H	10	0.11
(3,58)	1:5:A:SER:CB	1:72:A:LEU:H	5	0.11
(2,165)	1:62:A:VAL:O	1:65:A:PHE:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	2	0.11
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	3	0.11
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	9	0.11
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	10	0.11
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	12	0.11
(2,161)	1:61:A:ASN:O	1:64:A:VAL:H	15	0.11
(2,159)	1:60:A:ARG:O	1:64:A:VAL:H	5	0.11
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	10	0.11
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	13	0.11
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	19	0.11
(2,155)	1:59:A:PRO:O	1:63:A:TRP:H	14	0.11
(2,151)	1:49:A:GLY:O	1:53:A:TYR:H	18	0.11
(2,147)	1:47:A:LEU:O	1:51:A:GLY:H	2	0.11
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	2	0.11
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	7	0.11
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	11	0.11
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	18	0.11
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	20	0.11
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	13	0.11
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	16	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	6	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	11	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	12	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	13	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	15	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	16	0.11
(2,132)	1:39:A:ALA:O	1:43:A:LEU:N	19	0.11
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	7	0.11
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	13	0.11
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	16	0.11
(2,131)	1:39:A:ALA:O	1:43:A:LEU:H	19	0.11
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	7	0.11
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	10	0.11
(2,121)	1:36:A:PRO:O	1:40:A:ALA:H	16	0.11
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	1	0.11
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	8	0.11
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	12	0.11
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	19	0.11
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	7	0.11
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	9	0.11
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	14	0.11
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,111)	1:25:A:GLY:O	1:29:A:TYR:H	4	0.11
(2,111)	1:25:A:GLY:O	1:29:A:TYR:H	20	0.11
(2,109)	1:24:A:GLY:O	1:28:A:GLY:H	4	0.11
(2,109)	1:24:A:GLY:O	1:28:A:GLY:H	16	0.11
(2,105)	1:22:A:ALA:O	1:26:A:ILE:H	18	0.11
(2,105)	1:22:A:ALA:O	1:26:A:ILE:H	19	0.11
(2,83)	1:12:A:TRP:O	1:15:A:PHE:H	9	0.11
(2,83)	1:12:A:TRP:O	1:15:A:PHE:H	18	0.11
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	13	0.11
(2,71)	1:100:A:VAL:O	1:104:A:GLY:N	10	0.11
(2,58)	1:71:A:THR:O	1:75:A:ILE:N	15	0.11
(2,52)	1:65:A:PHE:O	1:69:A:SER:N	5	0.11
(2,49)	1:63:A:TRP:O	1:66:A:LEU:N	12	0.11
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	8	0.11
(2,40)	1:49:A:GLY:O	1:53:A:TYR:N	9	0.11
(2,37)	1:46:A:SER:O	1:50:A:LEU:N	18	0.11
(2,29)	1:38:A:LEU:O	1:42:A:LEU:N	11	0.11
(2,27)	1:37:A:SER:O	1:41:A:GLY:N	8	0.11
(2,26)	1:37:A:SER:O	1:40:A:ALA:N	19	0.11
(2,21)	1:26:A:ILE:O	1:30:A:VAL:N	9	0.11
(2,8)	1:13:A:PHE:O	1:17:A:TYR:N	20	0.11
(2,3)	1:10:A:LEU:O	1:14:A:GLY:N	5	0.11
(3,746)	1:51:A:GLY:H	1:111:A:PRO:CB	1	0.1
(3,741)	1:49:A:GLY:H	1:83:A:SER:CB	15	0.1
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	3	0.1
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	11	0.1
(3,658)	1:32:A:ALA:CB	1:40:A:ALA:H	12	0.1
(3,638)	1:23:A:SER:CB	1:110:A:ARG:H	14	0.1
(3,637)	1:23:A:SER:CB	1:108:A:PHE:H	4	0.1
(3,546)	1:5:A:SER:CB	1:96:A:SER:H	13	0.1
(3,495)	1:86:A:PHE:H	1:96:A:SER:CB	10	0.1
(3,388)	1:56:A:SER:CB	1:70:A:GLY:H	2	0.1
(3,371)	1:53:A:TYR:H	1:69:A:SER:CB	14	0.1
(3,198)	1:23:A:SER:CB	1:90:A:GLY:H	3	0.1
(3,164)	1:23:A:SER:CB	1:34:A:SER:H	4	0.1
(3,162)	1:23:A:SER:CB	1:32:A:ALA:H	14	0.1
(2,175)	1:65:A:PHE:O	1:69:A:SER:H	13	0.1
(2,159)	1:60:A:ARG:O	1:64:A:VAL:H	12	0.1
(2,159)	1:60:A:ARG:O	1:64:A:VAL:H	18	0.1
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	8	0.1
(2,157)	1:60:A:ARG:O	1:63:A:TRP:H	16	0.1
(2,151)	1:49:A:GLY:O	1:53:A:TYR:H	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,137)	1:42:A:LEU:O	1:46:A:SER:H	8	0.1
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	3	0.1
(2,135)	1:41:A:GLY:O	1:45:A:GLY:H	15	0.1
(2,123)	1:37:A:SER:O	1:40:A:ALA:H	11	0.1
(2,120)	1:35:A:VAL:O	1:39:A:ALA:N	8	0.1
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	6	0.1
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	16	0.1
(2,117)	1:28:A:GLY:O	1:31:A:LYS:H	20	0.1
(2,115)	1:27:A:ILE:O	1:31:A:LYS:H	13	0.1
(2,83)	1:12:A:TRP:O	1:15:A:PHE:H	8	0.1
(2,83)	1:12:A:TRP:O	1:15:A:PHE:H	14	0.1
(2,83)	1:12:A:TRP:O	1:15:A:PHE:H	20	0.1
(2,81)	1:11:A:HIS:O	1:15:A:PHE:H	9	0.1
(2,77)	1:10:A:LEU:O	1:14:A:GLY:H	6	0.1
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	5	0.1
(2,72)	1:101:A:ALA:O	1:105:A:VAL:N	18	0.1
(2,66)	1:95:A:ALA:O	1:99:A:MET:N	12	0.1
(2,49)	1:63:A:TRP:O	1:66:A:LEU:N	18	0.1
(2,48)	1:62:A:VAL:O	1:66:A:LEU:N	18	0.1
(2,39)	1:48:A:ALA:O	1:52:A:ALA:N	10	0.1
(2,38)	1:47:A:LEU:O	1:51:A:GLY:N	2	0.1
(2,16)	1:21:A:VAL:O	1:25:A:GLY:N	7	0.1
(2,15)	1:20:A:LEU:O	1:24:A:GLY:N	12	0.1
(2,10)	1:15:A:PHE:O	1:19:A:ALA:N	16	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found