Full wwPDB NMR Structure Validation Report (i)

Jun 4, 2023 – 09:35 AM EDT

PDB ID	:	2LOQ
BMRB ID	:	18221
Title	:	Backbone structure of human membrane protein FAM14B (Interferon alpha-inducible protein 27-like protein 1)
Authors	:	Klammt, C.; Chui, E.J.; Maslennikov, I.; Kwiatkowski, W.; Choe, S.
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 (i) 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 (i)) were used in the production of this report:

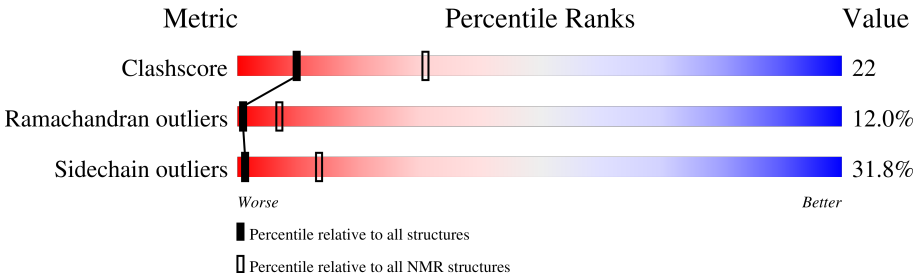
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

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 74%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	113	19% 40% · 30% 8%

2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 20 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:9-A:49, A:64-A:92 (70)	1.35	20

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 and 3 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 1361 atoms, of which 694 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Interferon alpha-inducible protein 27-like protein 1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	104	1361	420	694	114	129	4	0

There are 9 discrepancies between the modelled and reference sequences:

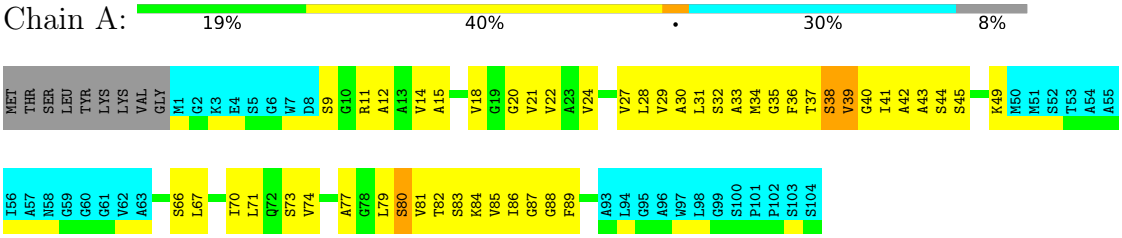
Chain	Residue	Modelled	Actual	Comment	Reference
A	-8	MET	-	expression tag	UNP Q96BM0
A	-7	THR	-	expression tag	UNP Q96BM0
A	-6	SER	-	expression tag	UNP Q96BM0
A	-5	LEU	-	expression tag	UNP Q96BM0
A	-4	TYR	-	expression tag	UNP Q96BM0
A	-3	LYS	-	expression tag	UNP Q96BM0
A	-2	LYS	-	expression tag	UNP Q96BM0
A	-1	VAL	-	expression tag	UNP Q96BM0
A	0	GLY	-	expression tag	UNP Q96BM0

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: Interferon alpha-inducible protein 27-like protein 1

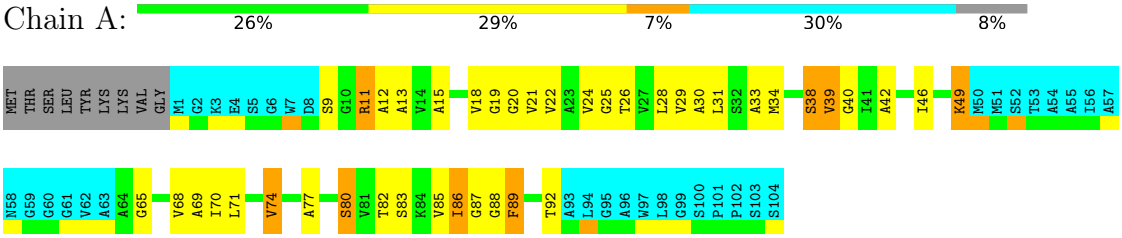


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

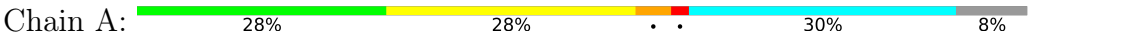
4.2.1 Score per residue for model 1

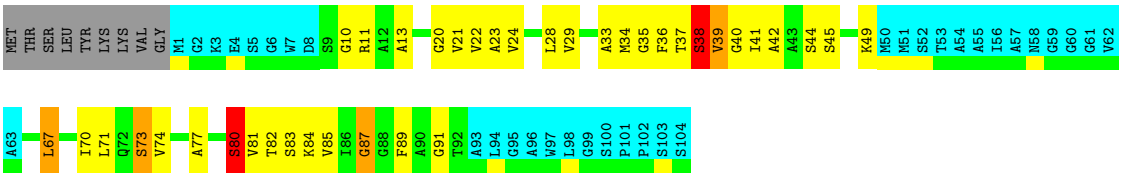
• Molecule 1: Interferon alpha-inducible protein 27-like protein 1



4.2.2 Score per residue for model 2

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

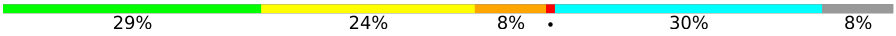


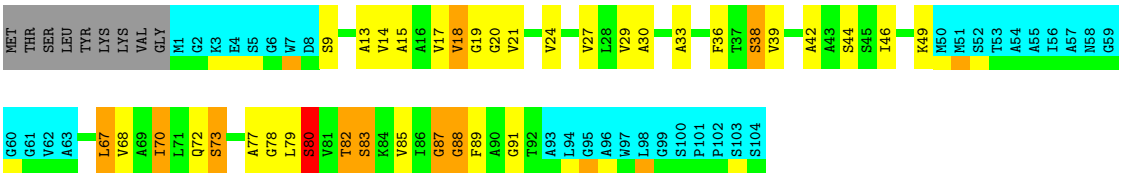


4.2.3 Score per residue for model 3

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

Chain A:

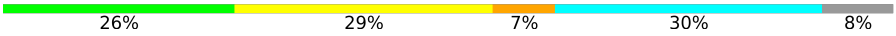


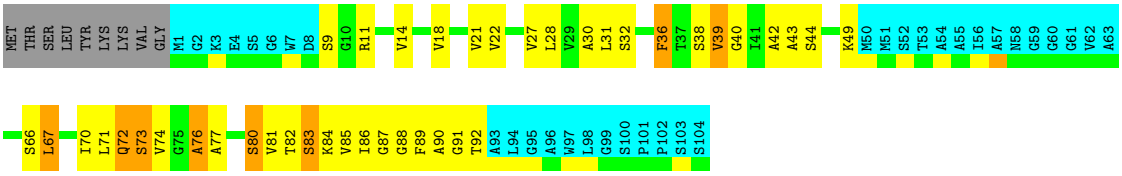


4.2.4 Score per residue for model 4

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

Chain A:

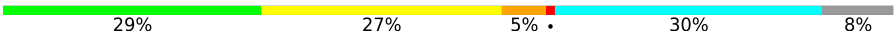


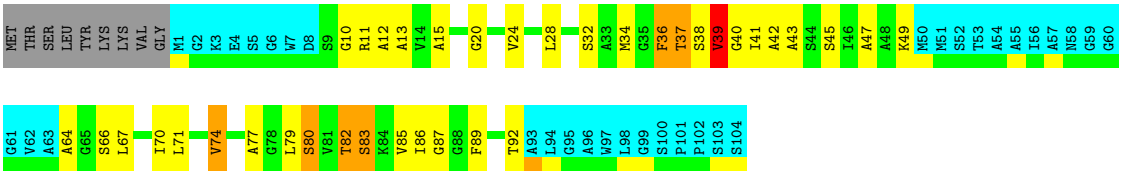


4.2.5 Score per residue for model 5

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

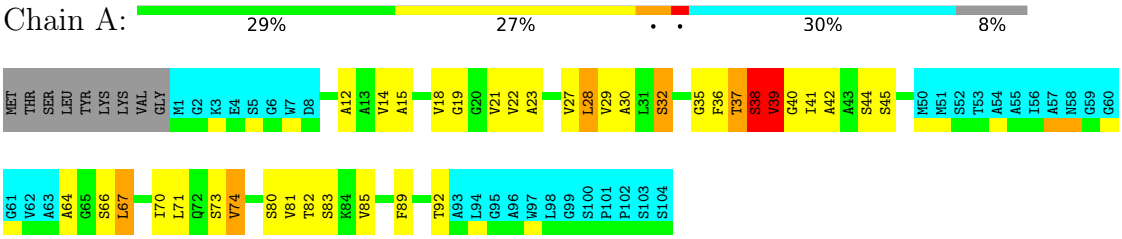
Chain A:





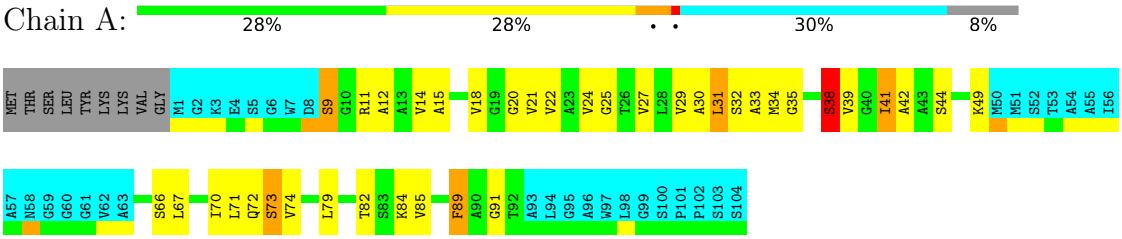
4.2.6 Score per residue for model 6

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1



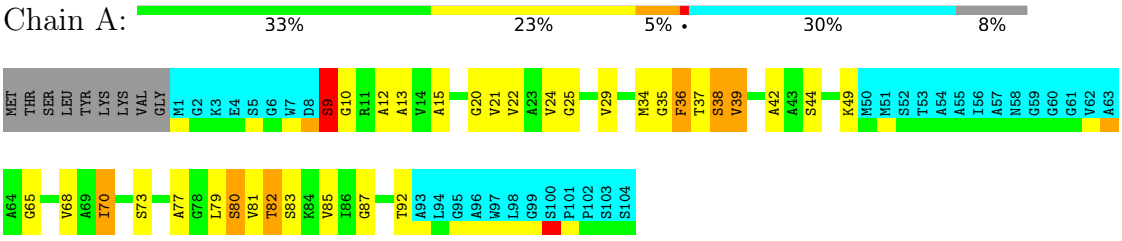
4.2.7 Score per residue for model 7

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1



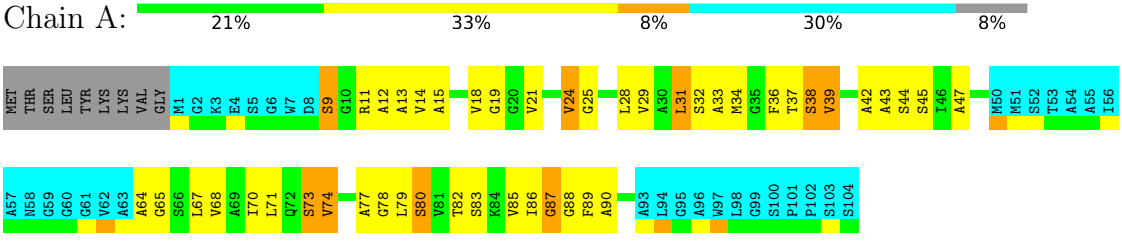
4.2.8 Score per residue for model 8

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1



4.2.9 Score per residue for model 9

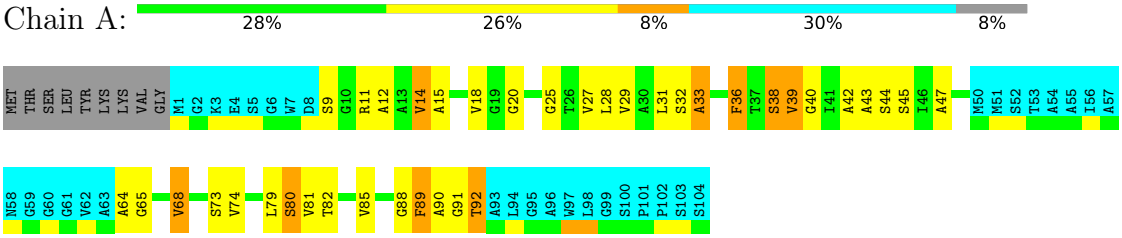
• Molecule 1: Interferon alpha-inducible protein 27-like protein 1



4.2.10 Score per residue for model 10

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

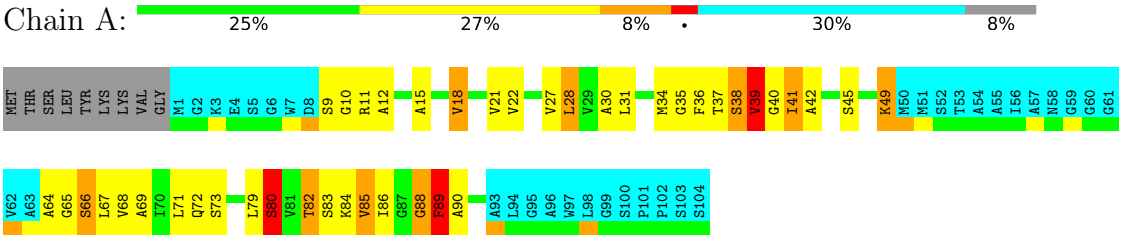
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

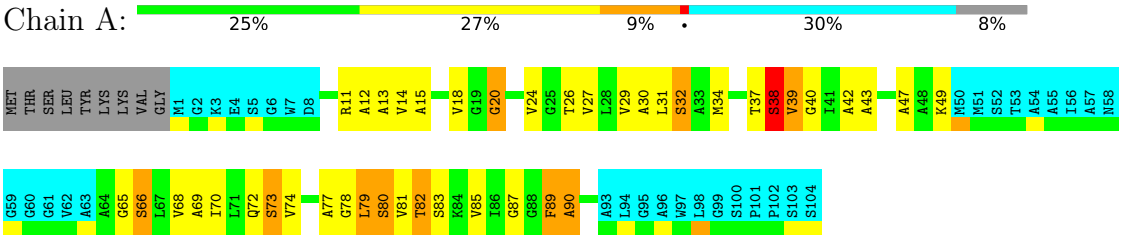
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

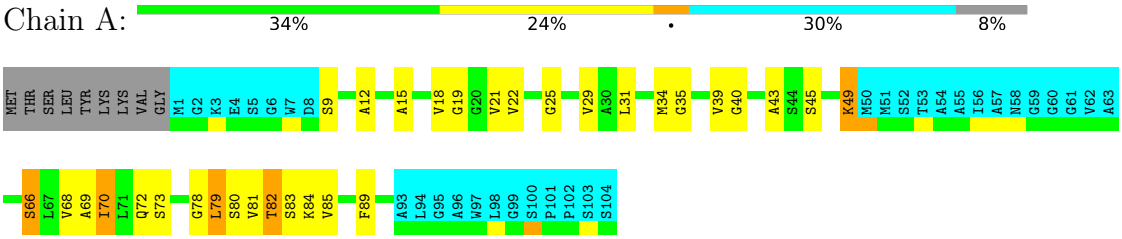
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

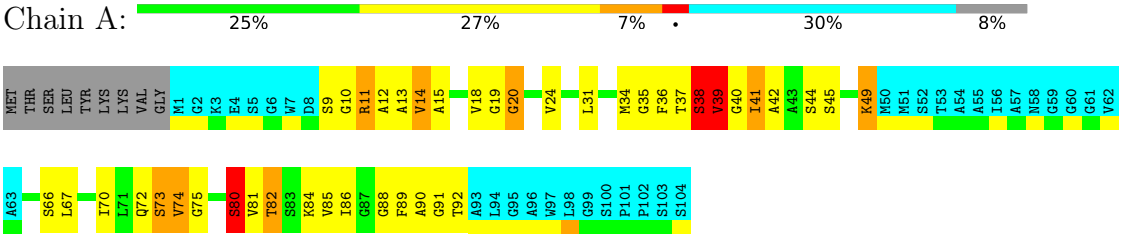
Chain A:



4.2.14 Score per residue for model 14

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

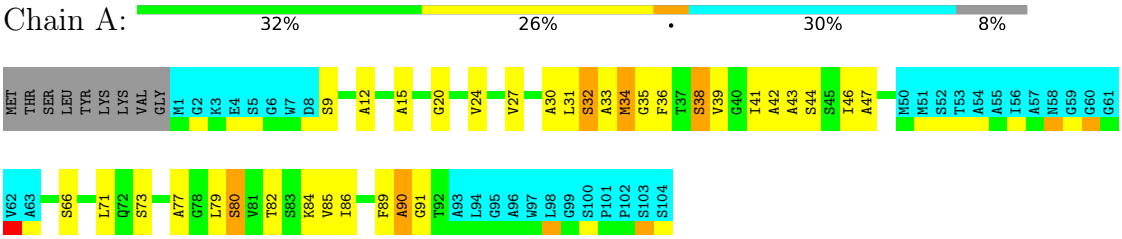
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

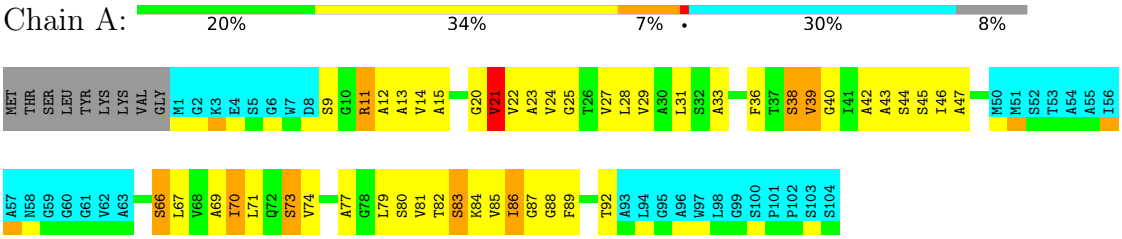
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

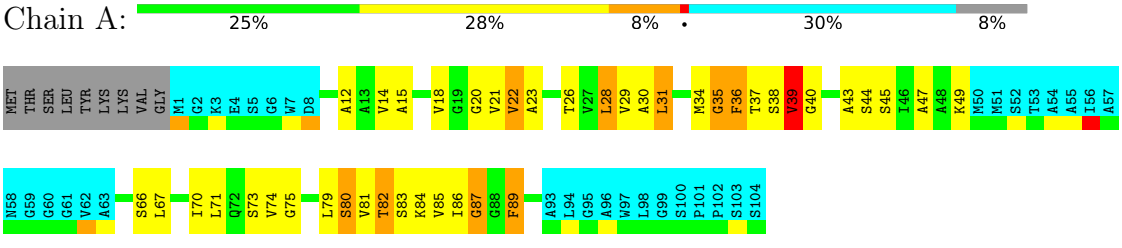
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

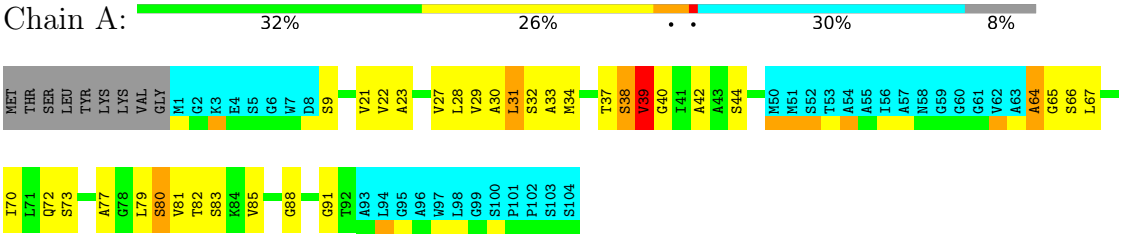
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

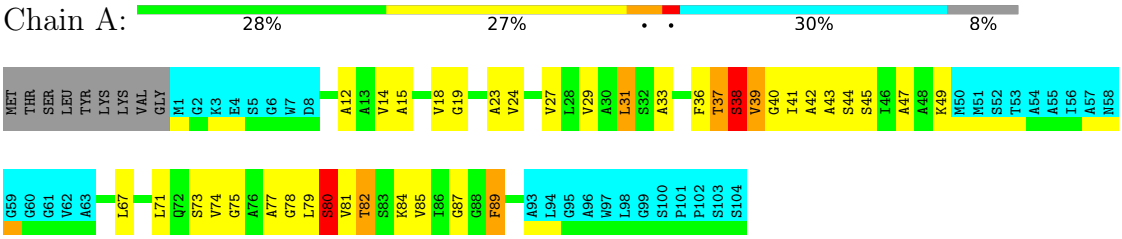
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

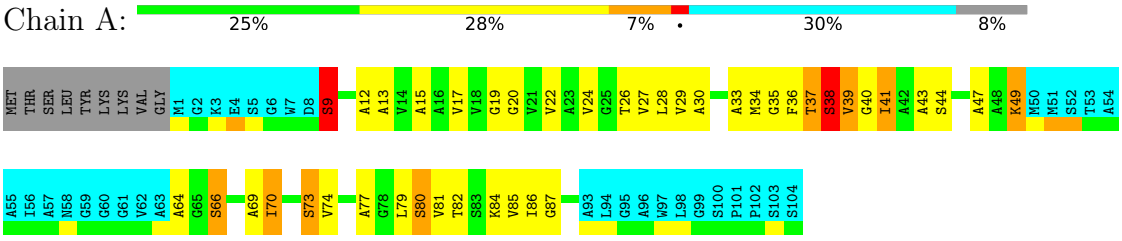
Chain A:



4.2.20 Score per residue for model 20 (medoid)

• Molecule 1: Interferon alpha-inducible protein 27-like protein 1

Chain A:



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	885
Number of shifts mapped to atoms	848
Number of unparsed shifts	0
Number of shifts with mapping errors	37
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	74%

6 Model quality

6.1 Standard geometry

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

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	441	479	479	20±5
All	All	8820	9580	9580	405

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 22.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:31:LEU:HD21	1:A:70:ILE:HD13	0.88	1.45	4	1
1:A:82:THR:O	1:A:85:VAL:HG22	0.87	1.70	17	2
1:A:81:VAL:O	1:A:85:VAL:HG13	0.87	1.69	17	2
1:A:21:VAL:O	1:A:24:VAL:HG22	0.86	1.71	2	2
1:A:82:THR:O	1:A:85:VAL:HG12	0.86	1.71	3	3
1:A:20:GLY:O	1:A:24:VAL:HG23	0.83	1.74	12	9
1:A:70:ILE:O	1:A:74:VAL:HG22	0.83	1.72	20	2
1:A:25:GLY:O	1:A:29:VAL:HG23	0.80	1.75	16	6
1:A:38:SER:O	1:A:39:VAL:HG12	0.79	1.77	10	1
1:A:29:VAL:O	1:A:33:ALA:HB3	0.76	1.80	2	5
1:A:20:GLY:O	1:A:23:ALA:HB3	0.75	1.82	16	3
1:A:65:GLY:O	1:A:68:VAL:HG22	0.74	1.81	8	4
1:A:27:VAL:O	1:A:30:ALA:HB3	0.74	1.82	12	8
1:A:67:LEU:HA	1:A:70:ILE:HD12	0.73	1.59	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:ILE:HD12	1:A:42:ALA:N	0.72	1.99	15	1
1:A:81:VAL:O	1:A:85:VAL:HG23	0.71	1.85	20	11
1:A:65:GLY:O	1:A:68:VAL:HG13	0.71	1.86	1	2
1:A:37:THR:HG23	1:A:38:SER:N	0.70	2.02	20	2
1:A:65:GLY:O	1:A:68:VAL:HG12	0.69	1.88	12	2
1:A:31:LEU:HD11	1:A:70:ILE:HG21	0.69	1.64	7	3
1:A:66:SER:O	1:A:69:ALA:HB3	0.68	1.88	13	5
1:A:14:VAL:O	1:A:18:VAL:HG13	0.68	1.88	3	1
1:A:38:SER:HB3	1:A:42:ALA:HB2	0.67	1.66	16	1
1:A:70:ILE:C	1:A:70:ILE:HD12	0.66	2.10	13	2
1:A:23:ALA:O	1:A:27:VAL:HG23	0.66	1.90	19	3
1:A:42:ALA:O	1:A:46:ILE:HG22	0.64	1.92	15	1
1:A:25:GLY:O	1:A:29:VAL:HG12	0.62	1.94	1	1
1:A:38:SER:O	1:A:39:VAL:HG22	0.62	1.95	9	2
1:A:9:SER:HB3	1:A:13:ALA:HB2	0.61	1.71	9	2
1:A:83:SER:HA	1:A:86:ILE:HD12	0.61	1.71	5	4
1:A:73:SER:O	1:A:77:ALA:HB3	0.61	1.95	8	6
1:A:9:SER:HB3	1:A:12:ALA:HB3	0.60	1.73	10	1
1:A:70:ILE:O	1:A:74:VAL:HG12	0.60	1.95	6	5
1:A:31:LEU:C	1:A:31:LEU:HD13	0.60	2.17	13	1
1:A:36:PHE:CD2	1:A:36:PHE:O	0.59	2.55	6	1
1:A:42:ALA:O	1:A:46:ILE:HD12	0.59	1.97	1	2
1:A:10:GLY:O	1:A:13:ALA:HB3	0.58	1.99	5	3
1:A:43:ALA:O	1:A:47:ALA:HB2	0.58	1.98	12	9
1:A:39:VAL:O	1:A:42:ALA:HB3	0.58	1.98	19	5
1:A:15:ALA:O	1:A:18:VAL:HG12	0.57	1.99	11	1
1:A:14:VAL:O	1:A:18:VAL:HG23	0.56	2.00	19	7
1:A:38:SER:O	1:A:42:ALA:HB2	0.56	2.01	15	7
1:A:38:SER:O	1:A:39:VAL:CG1	0.56	2.53	10	1
1:A:31:LEU:HD23	1:A:31:LEU:O	0.56	2.00	14	1
1:A:38:SER:CA	1:A:41:ILE:CG2	0.56	2.84	11	2
1:A:21:VAL:HG23	1:A:22:VAL:H	0.54	1.62	2	3
1:A:38:SER:CB	1:A:42:ALA:HB2	0.54	2.32	9	3
1:A:39:VAL:HG13	1:A:40:GLY:H	0.54	1.62	18	1
1:A:89:PHE:O	1:A:89:PHE:CG	0.54	2.60	1	2
1:A:31:LEU:HD21	1:A:70:ILE:CG2	0.54	2.31	7	1
1:A:79:LEU:O	1:A:79:LEU:HD23	0.54	2.03	8	1
1:A:37:THR:O	1:A:38:SER:CB	0.53	2.57	19	3
1:A:38:SER:O	1:A:41:ILE:HG23	0.53	2.03	14	1
1:A:37:THR:O	1:A:37:THR:HG23	0.52	2.03	11	2
1:A:13:ALA:O	1:A:17:VAL:HG23	0.52	2.04	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:THR:O	1:A:30:ALA:HB2	0.52	2.05	17	2
1:A:12:ALA:O	1:A:15:ALA:HB3	0.52	2.04	9	16
1:A:38:SER:O	1:A:42:ALA:CB	0.52	2.58	15	8
1:A:89:PHE:O	1:A:89:PHE:CD2	0.52	2.63	1	1
1:A:9:SER:CB	1:A:13:ALA:HB2	0.52	2.35	8	2
1:A:39:VAL:HG12	1:A:40:GLY:N	0.51	2.21	1	4
1:A:77:ALA:O	1:A:80:SER:CB	0.51	2.59	18	7
1:A:18:VAL:O	1:A:21:VAL:HG23	0.51	2.06	3	1
1:A:31:LEU:HD21	1:A:70:ILE:HG21	0.50	1.82	7	1
1:A:43:ALA:O	1:A:47:ALA:CB	0.50	2.59	20	7
1:A:66:SER:O	1:A:69:ALA:CB	0.50	2.59	16	2
1:A:70:ILE:O	1:A:74:VAL:CG1	0.50	2.59	1	3
1:A:36:PHE:CG	1:A:36:PHE:O	0.50	2.63	2	1
1:A:81:VAL:O	1:A:85:VAL:CG2	0.50	2.60	16	11
1:A:39:VAL:HG23	1:A:40:GLY:H	0.50	1.66	14	5
1:A:73:SER:O	1:A:77:ALA:CB	0.50	2.60	8	3
1:A:37:THR:O	1:A:37:THR:CG2	0.50	2.60	11	1
1:A:37:THR:O	1:A:41:ILE:CD1	0.50	2.60	5	1
1:A:37:THR:CG2	1:A:38:SER:N	0.50	2.71	20	1
1:A:38:SER:O	1:A:41:ILE:CG2	0.49	2.60	14	1
1:A:89:PHE:CD1	1:A:90:ALA:N	0.49	2.79	15	1
1:A:29:VAL:O	1:A:33:ALA:CB	0.49	2.61	3	5
1:A:38:SER:O	1:A:39:VAL:CG2	0.49	2.60	9	2
1:A:36:PHE:O	1:A:37:THR:HG22	0.49	2.07	6	1
1:A:33:ALA:O	1:A:34:MET:CB	0.49	2.60	15	1
1:A:70:ILE:HD12	1:A:70:ILE:O	0.48	2.08	8	2
1:A:38:SER:O	1:A:39:VAL:C	0.48	2.51	16	1
1:A:64:ALA:CA	1:A:68:VAL:CG1	0.48	2.92	9	1
1:A:42:ALA:O	1:A:46:ILE:CD1	0.48	2.62	1	1
1:A:36:PHE:O	1:A:36:PHE:CG	0.48	2.66	6	1
1:A:14:VAL:CG1	1:A:15:ALA:N	0.48	2.77	10	2
1:A:21:VAL:HG23	1:A:22:VAL:N	0.47	2.24	8	5
1:A:31:LEU:C	1:A:31:LEU:CD1	0.47	2.82	13	1
1:A:41:ILE:CG2	1:A:42:ALA:N	0.47	2.77	7	1
1:A:38:SER:CA	1:A:42:ALA:HB2	0.47	2.39	8	2
1:A:64:ALA:C	1:A:68:VAL:HG13	0.47	2.29	9	1
1:A:78:GLY:O	1:A:82:THR:CB	0.47	2.62	19	1
1:A:9:SER:HB2	1:A:13:ALA:HB2	0.47	1.86	3	1
1:A:68:VAL:HG23	1:A:69:ALA:N	0.47	2.24	1	1
1:A:31:LEU:HD11	1:A:70:ILE:HD13	0.47	1.85	7	1
1:A:38:SER:O	1:A:41:ILE:CG1	0.47	2.63	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:THR:O	1:A:29:VAL:HG12	0.46	2.09	20	2
1:A:67:LEU:O	1:A:70:ILE:HG22	0.46	2.10	3	1
1:A:67:LEU:O	1:A:70:ILE:CG1	0.46	2.63	9	1
1:A:70:ILE:HG23	1:A:74:VAL:HG23	0.46	1.88	12	1
1:A:77:ALA:O	1:A:80:SER:N	0.46	2.49	19	4
1:A:89:PHE:O	1:A:90:ALA:HB2	0.46	2.10	12	1
1:A:83:SER:O	1:A:87:GLY:N	0.46	2.48	17	8
1:A:72:GLN:CD	1:A:73:SER:N	0.46	2.69	12	1
1:A:22:VAL:HG23	1:A:23:ALA:N	0.46	2.26	18	1
1:A:15:ALA:O	1:A:19:GLY:N	0.45	2.49	3	1
1:A:21:VAL:HG13	1:A:22:VAL:N	0.45	2.27	6	4
1:A:20:GLY:O	1:A:23:ALA:CB	0.45	2.64	2	2
1:A:39:VAL:O	1:A:40:GLY:C	0.45	2.56	20	6
1:A:31:LEU:HD21	1:A:67:LEU:HD12	0.45	1.87	19	1
1:A:38:SER:HA	1:A:41:ILE:CG2	0.44	2.42	6	4
1:A:43:ALA:HA	1:A:46:ILE:HG22	0.44	1.89	16	1
1:A:18:VAL:O	1:A:20:GLY:N	0.44	2.50	1	2
1:A:80:SER:C	1:A:82:THR:N	0.44	2.69	19	8
1:A:70:ILE:HG23	1:A:74:VAL:HG21	0.44	1.89	17	1
1:A:38:SER:O	1:A:39:VAL:O	0.44	2.34	10	1
1:A:26:THR:O	1:A:30:ALA:CB	0.44	2.65	17	2
1:A:72:GLN:O	1:A:76:ALA:HB2	0.44	2.12	4	1
1:A:9:SER:C	1:A:13:ALA:HB2	0.44	2.33	8	1
1:A:37:THR:O	1:A:41:ILE:HD12	0.44	2.11	5	1
1:A:28:LEU:O	1:A:31:LEU:N	0.44	2.50	11	3
1:A:14:VAL:CG2	1:A:15:ALA:N	0.44	2.81	16	2
1:A:28:LEU:C	1:A:30:ALA:N	0.44	2.70	17	2
1:A:80:SER:O	1:A:82:THR:N	0.44	2.51	19	1
1:A:37:THR:OG1	1:A:38:SER:N	0.44	2.51	6	1
1:A:37:THR:HG22	1:A:38:SER:N	0.43	2.28	8	1
1:A:37:THR:HG23	1:A:38:SER:H	0.43	1.73	20	1
1:A:11:ARG:C	1:A:13:ALA:N	0.43	2.70	1	4
1:A:9:SER:O	1:A:13:ALA:HB2	0.43	2.12	16	1
1:A:27:VAL:HG13	1:A:28:LEU:N	0.43	2.29	16	1
1:A:86:ILE:HD13	1:A:89:PHE:CE2	0.43	2.49	11	1
1:A:87:GLY:O	1:A:89:PHE:N	0.43	2.51	16	1
1:A:42:ALA:O	1:A:46:ILE:CG1	0.43	2.67	1	1
1:A:37:THR:HG23	1:A:41:ILE:HD13	0.43	1.91	2	1
1:A:32:SER:C	1:A:34:MET:N	0.43	2.72	5	1
1:A:40:GLY:O	1:A:43:ALA:HB3	0.43	2.13	10	3
1:A:73:SER:O	1:A:76:ALA:N	0.43	2.52	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:VAL:O	1:A:33:ALA:HB2	0.42	2.14	10	1
1:A:73:SER:C	1:A:75:GLY:N	0.42	2.72	14	2
1:A:11:ARG:O	1:A:13:ALA:N	0.42	2.53	1	1
1:A:10:GLY:O	1:A:13:ALA:CB	0.42	2.67	5	1
1:A:88:GLY:O	1:A:90:ALA:N	0.42	2.52	11	2
1:A:41:ILE:CD1	1:A:42:ALA:N	0.42	2.76	15	1
1:A:78:GLY:O	1:A:79:LEU:C	0.42	2.58	12	3
1:A:21:VAL:O	1:A:24:VAL:HG12	0.42	2.14	9	1
1:A:73:SER:O	1:A:74:VAL:C	0.41	2.59	2	4
1:A:70:ILE:O	1:A:74:VAL:CG2	0.41	2.60	16	1
1:A:40:GLY:O	1:A:41:ILE:C	0.41	2.58	14	1
1:A:91:GLY:O	1:A:92:THR:C	0.41	2.58	10	1
1:A:24:VAL:HA	1:A:27:VAL:HG12	0.41	1.92	16	1
1:A:36:PHE:O	1:A:37:THR:CG2	0.41	2.69	6	1
1:A:26:THR:HA	1:A:29:VAL:HG12	0.41	1.93	17	1
1:A:20:GLY:O	1:A:23:ALA:N	0.41	2.54	2	1
1:A:78:GLY:C	1:A:80:SER:N	0.41	2.74	12	2
1:A:74:VAL:O	1:A:75:GLY:C	0.41	2.58	19	1
1:A:11:ARG:O	1:A:12:ALA:C	0.41	2.59	1	2
1:A:38:SER:CB	1:A:42:ALA:CB	0.41	2.99	9	1
1:A:38:SER:CB	1:A:42:ALA:HB3	0.41	2.46	10	1
1:A:29:VAL:O	1:A:33:ALA:O	0.41	2.39	19	1
1:A:28:LEU:O	1:A:29:VAL:C	0.40	2.60	6	2
1:A:87:GLY:O	1:A:88:GLY:C	0.40	2.60	3	1
1:A:70:ILE:O	1:A:74:VAL:HG13	0.40	2.16	16	1
1:A:31:LEU:HD12	1:A:32:SER:N	0.40	2.32	12	1
1:A:14:VAL:HG23	1:A:15:ALA:N	0.40	2.31	16	1
1:A:68:VAL:CG2	1:A:69:ALA:N	0.40	2.84	1	1
1:A:90:ALA:O	1:A:92:THR:N	0.40	2.54	4	1
1:A:23:ALA:O	1:A:27:VAL:CG2	0.40	2.69	6	1
1:A:70:ILE:HG23	1:A:74:VAL:CG2	0.40	2.46	12	1
1:A:27:VAL:O	1:A:31:LEU:CD1	0.40	2.70	10	1
1:A:38:SER:C	1:A:42:ALA:HB3	0.40	2.37	10	1
1:A:91:GLY:O	1:A:92:THR:O	0.40	2.40	10	1
1:A:35:GLY:O	1:A:36:PHE:CB	0.40	2.68	17	1
1:A:86:ILE:HG22	1:A:87:GLY:N	0.40	2.32	17	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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	70/113 (62%)	40±3 (57±4%)	22±3 (31±4%)	8±2 (12±3%)	1 7
All	All	1400/2260 (62%)	801 (57%)	431 (31%)	168 (12%)	1 7

All 26 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	39	VAL	20
1	A	82	THR	20
1	A	38	SER	13
1	A	35	GLY	10
1	A	89	PHE	9
1	A	88	GLY	8
1	A	80	SER	8
1	A	36	PHE	8
1	A	19	GLY	7
1	A	87	GLY	7
1	A	49	LYS	6
1	A	91	GLY	6
1	A	37	THR	6
1	A	64	ALA	6
1	A	9	SER	5
1	A	86	ILE	4
1	A	92	THR	4
1	A	90	ALA	4
1	A	34	MET	3
1	A	32	SER	3
1	A	33	ALA	3
1	A	20	GLY	3
1	A	10	GLY	2
1	A	76	ALA	1
1	A	21	VAL	1
1	A	65	GLY	1

6.3.2 Protein sidechains (i)

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	42/71 (59%)	29±3 (68±7%)	13±3 (32±7%)	1 13
All	All	840/1420 (59%)	573 (68%)	267 (32%)	1 13

All 33 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	80	SER	16
1	A	44	SER	15
1	A	73	SER	15
1	A	38	SER	13
1	A	66	SER	13
1	A	79	LEU	13
1	A	49	LYS	12
1	A	71	LEU	12
1	A	45	SER	11
1	A	84	LYS	11
1	A	34	MET	10
1	A	67	LEU	10
1	A	9	SER	9
1	A	11	ARG	9
1	A	36	PHE	9
1	A	28	LEU	8
1	A	31	LEU	8
1	A	83	SER	8
1	A	89	PHE	8
1	A	72	GLN	7
1	A	32	SER	7
1	A	39	VAL	7
1	A	74	VAL	5
1	A	85	VAL	5
1	A	70	ILE	5
1	A	18	VAL	4
1	A	41	ILE	4
1	A	68	VAL	3
1	A	24	VAL	2

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Mol	Chain	Res	Type	Models (Total)
1	A	14	VAL	2
1	A	92	THR	2
1	A	21	VAL	2
1	A	22	VAL	2

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 monosaccharides 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 74% for the well-defined parts and 71% 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	885
Number of shifts mapped to atoms	848
Number of unparsed shifts	0
Number of shifts with mapping errors	37
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 37 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	-5	LEU	H	8.599	0	1
1	A	-5	LEU	C	177.486	0	1
1	A	-5	LEU	CA	57.048	0	1
1	A	-5	LEU	CB	41.418	0	1
1	A	-5	LEU	N	125.252	0	1
1	A	-4	TYR	H	7.58	0	1
1	A	-4	TYR	CA	58.761	0	1
1	A	-4	TYR	N	115.731	0	1
1	A	-3	LYS	H	7.446	0	1
1	A	-3	LYS	C	177.876	0	1
1	A	-3	LYS	CA	56.565	0	1
1	A	-3	LYS	CB	31.625	0	1
1	A	-3	LYS	N	119.634	0	1
1	A	-2	LYS	H	7.881	0	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	-2	LYS	C	177.398	0	1
1	A	-2	LYS	CA	56.641	0	1
1	A	-2	LYS	CB	31.625	0	1
1	A	-2	LYS	N	119.784	0	1
1	A	-1	VAL	H	7.632	0	1
1	A	-1	VAL	HA	4.019	0	1
1	A	-1	VAL	HB	2.164	0	1
1	A	-1	VAL	HG11	0.949	0	2
1	A	-1	VAL	HG12	0.949	0	2
1	A	-1	VAL	HG13	0.949	0	2
1	A	-1	VAL	HG21	0.949	0	2
1	A	-1	VAL	HG22	0.949	0	2
1	A	-1	VAL	HG23	0.949	0	2
1	A	-1	VAL	C	176.077	0	1
1	A	-1	VAL	CA	62.656	0	1
1	A	-1	VAL	CB	31.404	0	1
1	A	-1	VAL	N	116.206	0	1
1	A	0	GLY	H	7.854	0	1
1	A	0	GLY	HA2	3.855	0	2
1	A	0	GLY	HA3	4.019	0	2
1	A	0	GLY	C	174.594	0	1
1	A	0	GLY	CA	45.655	0	1
1	A	0	GLY	N	108.732	0	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	108	0.06 ± 0.18	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	86	0.98 ± 0.04	Should be checked
$^{13}C'$	99	-0.53 ± 0.14	Should be applied
^{15}N	107	-0.26 ± 0.20	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 74%, i.e. 601 atoms were assigned a chemical shift out of a possible 814. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	335/362 (93%)	132/152 (87%)	134/140 (96%)	69/70 (99%)
Sidechain	266/432 (62%)	165/298 (55%)	101/128 (79%)	0/6 (0%)
Aromatic	0/20 (0%)	0/10 (0%)	0/10 (0%)	0/0 (—%)
Overall	601/814 (74%)	297/460 (65%)	235/278 (85%)	69/76 (91%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 71%, i.e. 848 atoms were assigned a chemical shift out of a possible 1190. 0 out of 21 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	487/535 (91%)	190/225 (84%)	196/208 (94%)	101/102 (99%)
Sidechain	360/611 (59%)	221/419 (53%)	139/184 (76%)	0/8 (0%)
Aromatic	1/44 (2%)	1/22 (5%)	0/20 (0%)	0/2 (0%)
Overall	848/1190 (71%)	412/666 (62%)	335/412 (81%)	101/112 (90%)

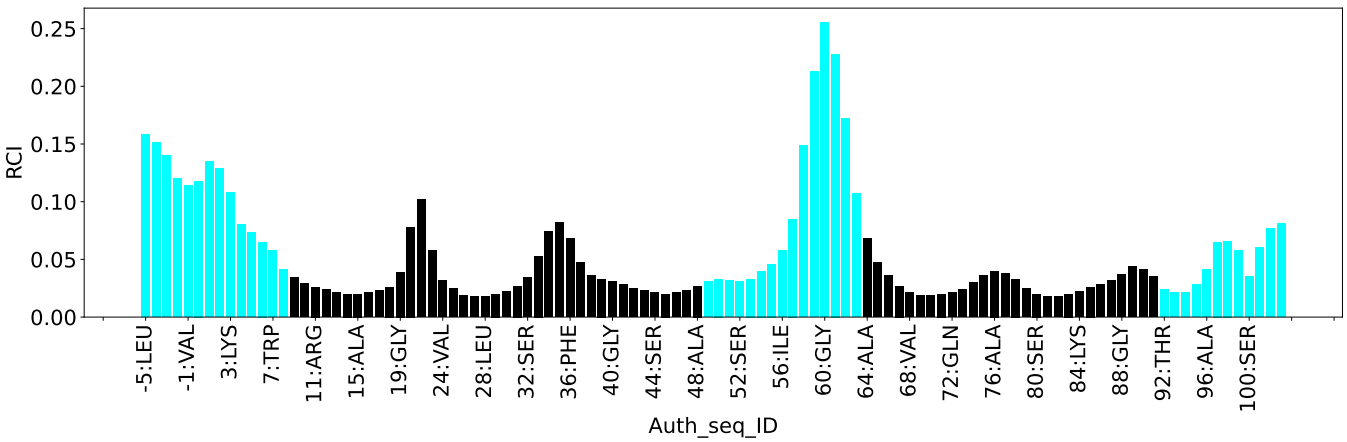
7.1.4 Statistically unusual chemical shifts (i)

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	892
Intra-residue (|i-j|=0)	2
Sequential (|i-j|=1)	6
Medium range (|i-j|>1 and |i-j|<5)	32
Long range (|i-j|≥5)	652
Inter-chain	0
Hydrogen bond restraints	200
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	7.9
Number of long range restraints per residue[1]	5.8

[1]Long 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)	12.8	0.2
0.2-0.5 (Medium)	18.9	0.5
>0.5 (Large)	400.0	30.85

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 (i)

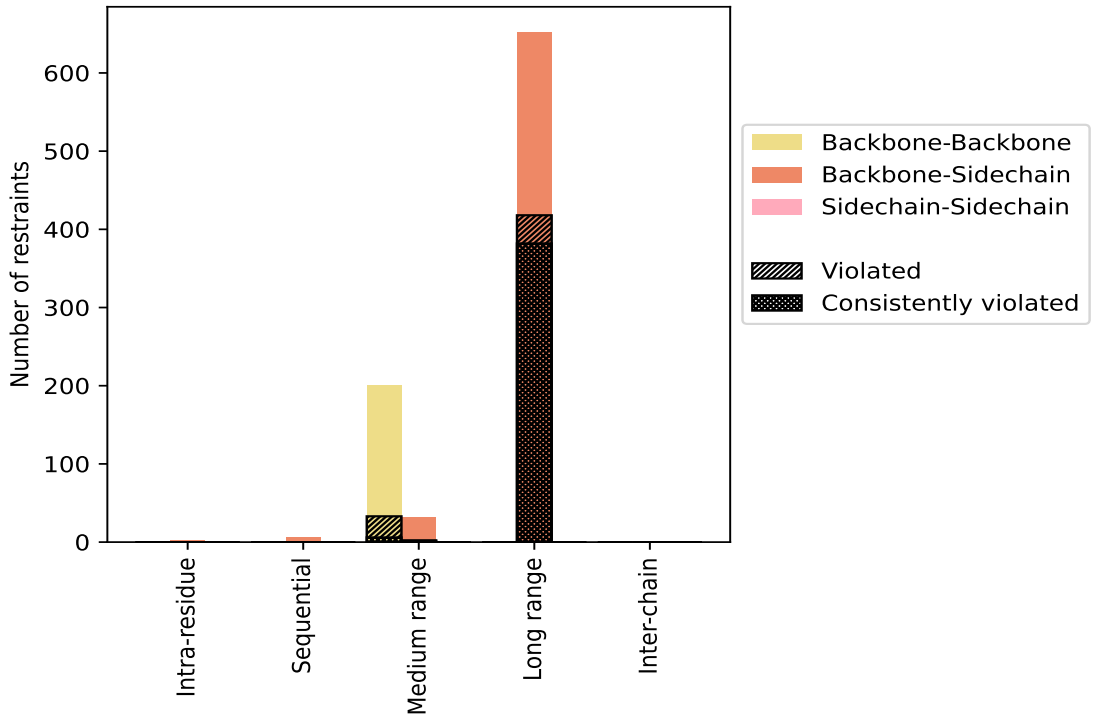
9.1 Summary of distance violations (i)

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.

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	2	0.2	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	2	0.2	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)	6	0.7	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	6	0.7	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)	32	3.6	2	6.2	0.2	2	6.2	0.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	32	3.6	2	6.2	0.2	2	6.2	0.2
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (|i-j|≥5)	652	73.1	418	64.1	46.9	382	58.6	42.8
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	652	73.1	418	64.1	46.9	382	58.6	42.8
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	200	22.4	33	16.5	3.7	6	3.0	0.7
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	892	100.0	453	50.8	50.8	390	43.7	43.7
Backbone-Backbone	200	22.4	33	16.5	3.7	6	3.0	0.7
Backbone-Sidechain	692	77.6	420	60.7	47.1	384	55.5	43.0
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



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

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	23	411	0	434	6.17	25.6	5.34	4.78
2	0	0	21	413	0	434	5.96	27.34	5.13	4.62
3	0	0	23	410	0	433	6.25	28.69	5.52	4.85
4	0	0	23	411	0	434	6.05	25.85	5.15	4.86
5	0	0	23	405	0	428	5.92	25.79	5.21	4.6
6	0	0	21	409	0	430	6.28	28.38	5.71	4.88
7	0	0	24	406	0	430	6.46	27.63	5.56	5.01
8	0	0	26	407	0	433	6.37	28.12	5.64	4.87
9	0	0	23	411	0	434	6.43	27.66	5.59	5.03
10	0	0	22	407	0	429	6.14	28.17	5.34	5.01
11	0	0	24	409	0	433	6.28	30.85	5.58	4.85

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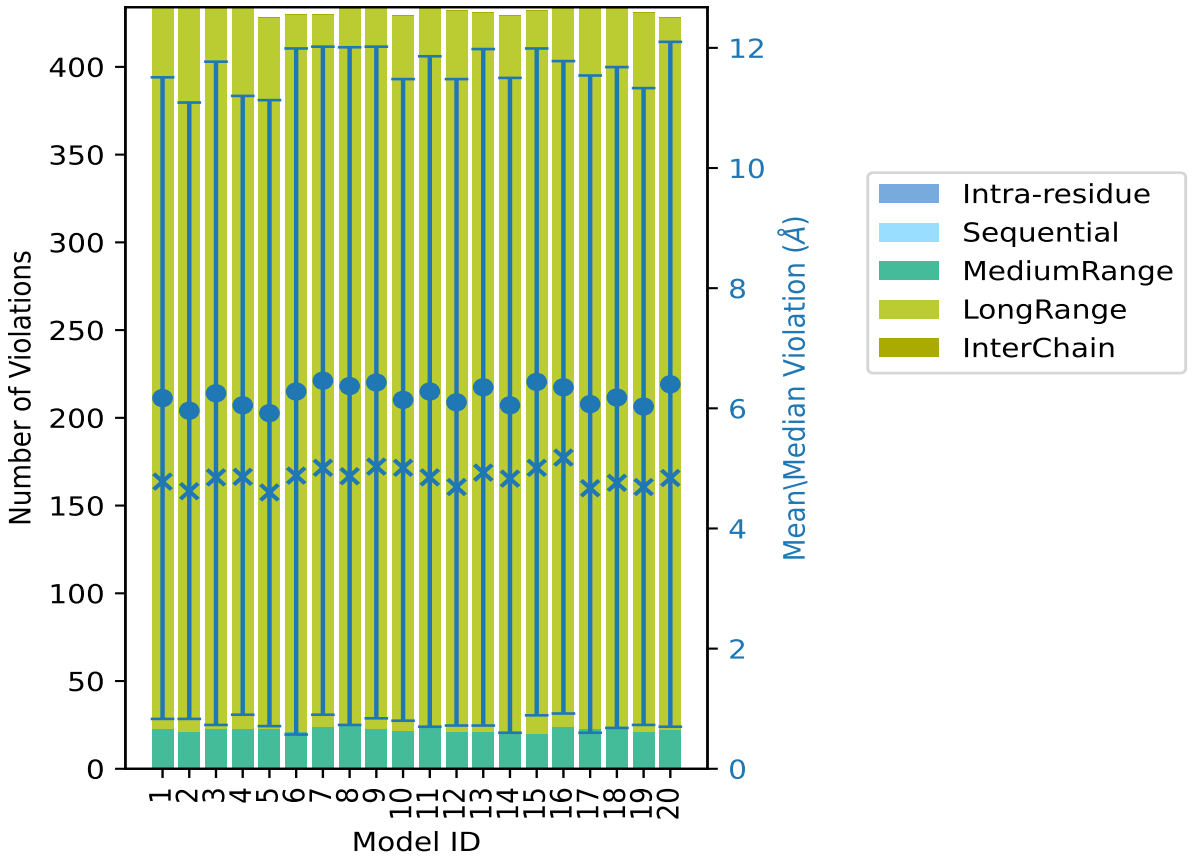
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	0	0	21	411	0	432	6.1	28.37	5.38	4.69
13	0	0	21	410	0	431	6.35	26.87	5.63	4.93
14	0	0	20	409	0	429	6.05	27.13	5.45	4.83
15	0	0	20	412	0	432	6.44	26.91	5.55	5.01
16	0	0	24	409	0	433	6.35	28.52	5.43	5.18
17	0	0	23	410	0	433	6.07	27.84	5.47	4.67
18	0	0	23	410	0	433	6.18	27.08	5.5	4.76
19	0	0	21	410	0	431	6.03	26.81	5.3	4.69
20	0	0	22	406	0	428	6.4	26.99	5.7	4.84

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

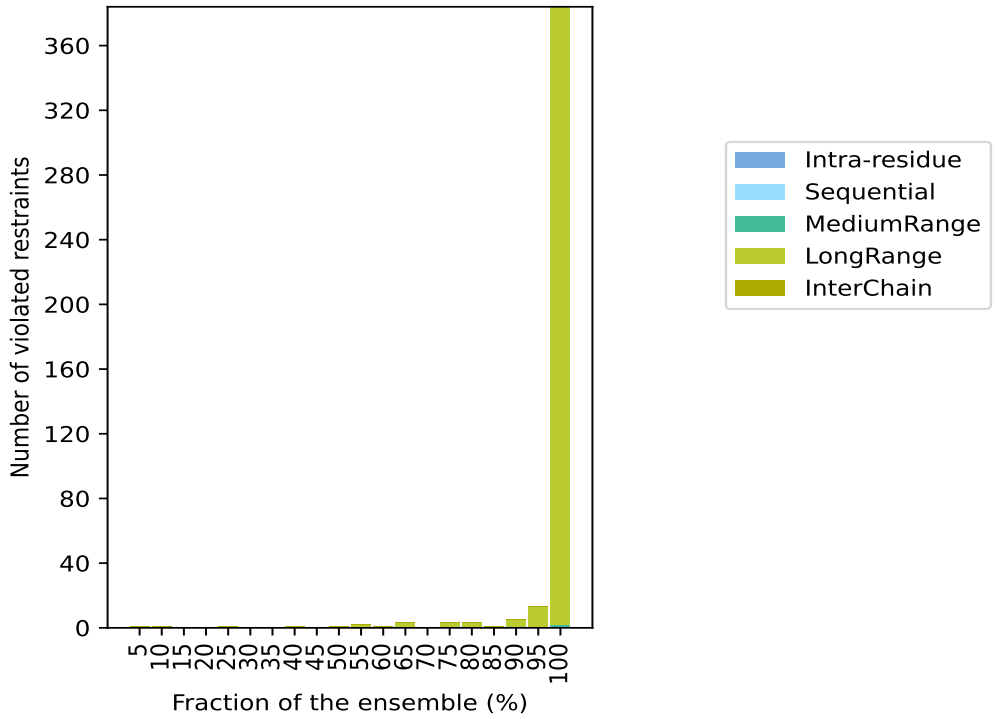
9.3 Distance violation statistics for the ensemble (i)

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, 272(IR:2, SQ:6, MR:30, LR:234, 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	1	0	1	1	5.0
0	0	0	1	0	1	2	10.0
0	0	0	0	0	0	3	15.0
0	0	0	0	0	0	4	20.0
0	0	0	1	0	1	5	25.0
0	0	0	0	0	0	6	30.0
0	0	0	0	0	0	7	35.0
0	0	0	1	0	1	8	40.0
0	0	0	0	0	0	9	45.0
0	0	0	1	0	1	10	50.0
0	0	0	2	0	2	11	55.0
0	0	0	1	0	1	12	60.0
0	0	0	3	0	3	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	3	0	3	15	75.0
0	0	0	3	0	3	16	80.0
0	0	0	1	0	1	17	85.0
0	0	0	5	0	5	18	90.0
0	0	0	13	0	13	19	95.0
0	0	2	382	0	384	20	100.0

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6] Number of models with violations

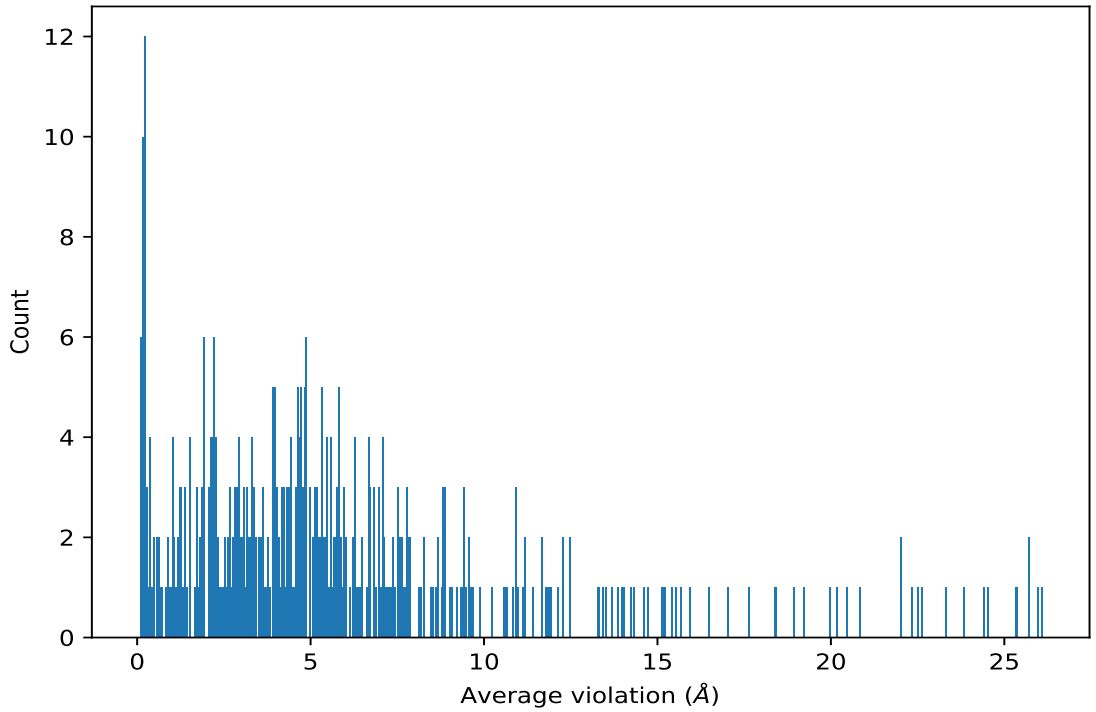
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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)
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	20	26.07	1.92	26.48
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	20	25.96	0.74	25.96
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	20	25.73	2.02	25.98
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	20	25.7	1.49	25.44
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	20	25.39	1.57	25.34
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	20	25.31	0.8	25.3
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	20	24.53	1.65	24.48
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	20	24.41	1.06	24.92
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	20	23.82	2.49	23.58
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	20	23.3	2.52	22.47
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	20	22.6	0.74	22.68
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	20	22.51	1.55	22.54
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	20	22.3	0.67	22.36
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	20	22.04	0.79	22.26
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	20	22.04	1.76	22.26
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	20	20.82	0.85	21.02

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	20	20.49	1.61	20.26
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	20	20.16	1.05	20.06
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	20	19.98	0.95	19.94
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	20	19.2	1.38	19.41
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	20	18.93	0.85	19.02
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	20	18.42	1.19	18.36
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	20	18.39	3.81	18.38
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	20	17.61	0.92	17.78
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	20	17.03	3.21	17.4
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	20	16.49	1.19	16.38
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	20	15.92	1.2	16.23
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	20	15.68	0.98	15.75
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	20	15.51	4.92	15.13
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	20	15.4	1.17	15.5
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	20	15.24	0.55	15.22
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	20	15.18	1.32	15.43
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	20	15.13	0.56	15.23
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	20	14.72	0.96	14.67
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	20	14.62	2.24	14.95
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	20	14.31	4.26	14.5
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	20	14.21	0.66	14.34
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	20	14.01	1.2	14.6
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	20	13.97	1.18	13.91
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	20	13.85	1.15	14.08
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	20	13.67	1.82	13.64
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	20	13.51	1.78	13.11
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	20	13.41	1.24	13.42
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	20	13.34	1.71	13.33
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	20	13.28	1.4	13.56
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	20	12.46	2.4	12.87
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	20	12.46	0.64	12.56
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	20	12.26	3.1	12.82
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	20	12.25	0.57	12.24
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	20	12.12	1.63	12.17
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	20	11.94	1.29	12.3
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	20	11.86	2.57	11.86
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	20	11.84	1.5	11.82
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	20	11.77	1.78	11.44
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	20	11.69	1.27	11.82
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	20	11.67	2.65	11.45
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	20	11.4	1.69	11.5
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	20	11.19	1.65	11.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	20	11.18	2.11	11.2
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	20	11.1	1.26	11.38
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	20	10.98	1.08	10.87
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	20	10.93	1.48	11.54
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	20	10.92	1.22	11.02
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	20	10.9	1.91	11.77
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	20	10.82	1.08	11.16
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	20	10.67	1.47	11.4
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	20	10.61	1.02	10.97
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	20	10.58	1.48	10.86
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	20	10.24	1.48	10.36
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	20	9.89	2.0	10.38
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	20	9.65	1.59	9.78
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	20	9.62	2.38	9.96
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	20	9.58	0.64	9.54
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	20	9.55	1.4	9.99
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	20	9.45	1.35	9.32
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	20	9.43	1.31	9.42
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	20	9.4	1.24	9.54
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	20	9.4	1.21	9.7
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	20	9.35	1.5	9.99
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	20	9.34	1.26	9.79
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	20	9.2	2.4	9.62
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	20	9.08	1.21	9.25
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	20	9.04	0.58	8.95
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	20	8.88	0.98	8.89
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	20	8.87	0.9	9.06
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	20	8.87	1.05	9.06
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	20	8.84	1.93	9.72
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	20	8.84	1.05	9.28
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	20	8.82	1.33	8.59
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	20	8.78	1.39	9.33
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	20	8.69	1.08	8.49
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	20	8.65	1.47	8.36
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	20	8.61	1.76	8.95
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	20	8.53	2.01	8.13
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	20	8.46	2.55	8.3
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	20	8.26	1.53	8.54
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	20	8.25	3.34	7.75
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	20	8.15	5.2	7.02
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	20	8.1	0.77	8.28
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	20	7.86	1.65	8.61

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	20	7.85	0.73	7.65
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	20	7.83	2.47	8.63
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	20	7.81	0.56	7.8
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	20	7.78	0.25	7.86
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	20	7.78	6.88	3.96
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	20	7.78	0.24	7.82
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	20	7.7	2.18	7.86
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	20	7.65	0.4	7.7
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	20	7.63	0.62	7.93
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	20	7.63	0.39	7.78
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	20	7.59	3.68	9.15
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	20	7.57	0.3	7.63
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	20	7.51	0.51	7.56
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	20	7.51	0.68	7.58
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	20	7.5	2.82	8.4
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	20	7.42	0.57	7.59
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	20	7.39	1.06	7.37
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	20	7.38	0.72	7.88
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	20	7.3	0.6	7.25
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	20	7.28	0.98	7.81
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	20	7.21	1.12	6.94
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	20	7.18	0.96	7.76
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	20	7.13	0.97	7.46
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	20	7.1	0.6	6.98
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	20	7.08	0.91	7.3
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	20	7.06	3.23	6.94
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	20	7.05	0.57	7.02
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	20	7.05	3.74	7.22
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	20	7.02	0.5	7.0
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	20	6.99	1.14	6.98
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	20	6.96	0.7	7.15
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	20	6.96	1.08	6.85
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	20	6.86	3.15	6.59
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	20	6.84	0.36	6.91
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	20	6.84	1.39	6.61
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	20	6.83	3.0	6.94
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	20	6.71	0.03	6.71
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	20	6.71	0.45	6.77
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	20	6.7	1.88	6.75
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	20	6.69	0.49	6.81
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	20	6.68	0.74	6.88
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	20	6.65	1.08	6.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	20	6.65	1.21	7.14
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	20	6.63	1.29	6.72
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	20	6.47	0.25	6.46
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	20	6.45	1.34	6.83
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	20	6.44	2.11	6.38
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	20	6.36	1.58	6.2
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	20	6.31	0.58	6.35
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	20	6.27	1.08	6.5
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	20	6.26	1.01	6.6
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	20	6.26	2.09	5.94
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	20	6.26	0.5	6.31
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	20	6.24	1.3	5.72
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	20	6.23	1.36	6.04
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	20	6.1	3.49	6.8
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	20	6.04	1.89	5.81
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	20	6.01	0.02	6.01
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	20	5.99	0.55	6.02
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	20	5.99	0.95	6.14
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	20	5.97	0.64	5.92
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	20	5.9	0.18	5.97
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	20	5.88	1.64	6.18
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	20	5.88	0.12	5.93
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	20	5.83	0.97	6.12
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	20	5.82	0.14	5.85
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	20	5.82	0.2	5.87
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	20	5.81	3.28	5.68
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	20	5.81	0.11	5.84
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	20	5.78	0.12	5.76
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	20	5.77	1.02	5.86
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	20	5.76	0.62	5.74
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	20	5.72	1.3	5.86
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	20	5.7	0.77	5.9
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	20	5.69	1.02	6.06
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	20	5.68	2.67	5.5
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	20	5.6	0.88	5.88
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	20	5.59	0.81	5.4
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	20	5.57	0.13	5.57
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	20	5.55	0.88	5.98
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	20	5.55	0.44	5.6
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	20	5.5	0.31	5.6
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	20	5.49	0.1	5.5
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	20	5.49	0.17	5.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	20	5.47	1.27	5.56
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	20	5.46	0.73	5.28
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	20	5.42	0.22	5.48
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	20	5.4	0.66	5.46
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	20	5.37	2.12	5.44
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	20	5.37	0.76	5.44
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	20	5.34	0.75	5.3
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	20	5.33	0.61	5.3
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	20	5.33	0.51	5.4
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	20	5.32	0.22	5.28
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	20	5.31	1.02	5.53
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	20	5.27	0.15	5.27
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	20	5.24	0.22	5.18
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	20	5.23	0.42	5.16
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	20	5.19	0.17	5.17
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	20	5.19	0.6	5.32
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	20	5.15	0.65	4.98
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	20	5.14	1.87	5.34
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	20	5.14	0.55	5.08
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	20	5.11	2.35	5.1
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	20	5.07	0.28	5.03
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	20	5.05	1.08	5.43
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	20	4.97	0.3	4.98
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	20	4.96	0.71	5.18
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	20	4.95	0.73	5.14
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	20	4.89	1.11	4.58
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	20	4.88	0.38	4.89
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	20	4.87	1.68	5.18
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	20	4.87	0.96	5.02
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	20	4.85	1.99	4.52
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	20	4.85	0.47	4.89
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	20	4.84	0.69	4.78
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	20	4.84	1.81	5.08
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	20	4.83	1.28	4.91
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	20	4.83	0.75	4.6
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	20	4.82	1.07	5.42
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	20	4.79	1.04	5.06
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	20	4.78	0.3	4.81
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	20	4.75	0.67	4.9
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	20	4.74	0.27	4.71
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	20	4.73	1.92	4.99
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	20	4.72	0.28	4.78

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	20	4.72	0.08	4.7
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	20	4.7	1.41	4.62
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	20	4.67	3.07	3.76
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	20	4.67	0.33	4.74
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	20	4.67	0.15	4.69
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	20	4.64	0.83	4.39
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	20	4.64	0.32	4.69
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	20	4.62	1.61	4.72
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	20	4.61	0.24	4.6
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	20	4.6	0.45	4.58
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	20	4.58	0.11	4.59
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	20	4.57	0.83	4.75
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	20	4.57	0.3	4.56
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	20	4.54	0.86	4.65
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	20	4.42	0.24	4.46
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	20	4.42	0.77	4.62
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	20	4.42	1.56	4.62
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	20	4.41	0.27	4.43
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	20	4.39	0.66	4.28
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	20	4.39	0.34	4.47
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	20	4.37	0.21	4.42
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	20	4.34	1.03	4.57
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	20	4.33	0.41	4.33
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	20	4.3	1.39	4.02
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	20	4.27	1.72	3.97
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	20	4.24	0.5	4.18
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	20	4.2	1.08	4.06
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	20	4.2	1.93	4.03
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	20	4.19	0.18	4.17
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	20	4.18	0.31	4.16
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	20	4.16	0.44	4.16
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	20	4.1	0.26	4.04
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	20	4.09	1.83	4.38
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	20	4.08	0.1	4.06
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	20	4.04	0.68	4.11
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	20	4.04	2.88	3.47
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	20	4.03	1.71	3.83
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	20	3.99	0.85	3.9
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	20	3.98	1.89	4.57
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	20	3.96	0.78	4.24
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	20	3.96	0.64	4.08
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	20	3.95	1.54	3.94

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	20	3.94	0.15	3.94
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	20	3.91	0.07	3.92
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	20	3.9	0.33	4.04
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	20	3.9	1.71	4.19
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	20	3.9	0.35	3.92
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	20	3.8	1.04	3.6
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	20	3.78	1.75	3.86
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	20	3.75	1.36	4.2
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	20	3.67	1.79	3.5
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	20	3.64	1.28	3.76
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	20	3.61	0.4	3.8
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	20	3.55	0.24	3.58
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	20	3.55	1.74	3.38
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	20	3.54	1.25	3.14
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	20	3.52	0.9	3.96
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	20	3.41	0.47	3.6
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	20	3.38	2.08	3.49
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	20	3.37	0.94	3.59
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	20	3.35	0.76	3.26
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	20	3.33	0.24	3.38
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	20	3.32	0.16	3.32
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	20	3.3	0.56	3.2
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	20	3.27	1.51	3.18
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	20	3.25	0.73	3.0
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	20	3.22	1.85	3.58
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	20	3.22	0.34	3.27
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	20	3.19	0.42	3.2
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	20	3.18	0.36	3.22
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	20	3.15	1.43	2.68
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	20	3.1	0.57	3.25
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	20	3.06	0.72	2.88
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	20	3.05	0.29	3.1
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	20	3.04	0.58	2.85
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	20	3.02	0.22	2.98
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	20	2.99	1.49	2.97
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	20	2.96	1.36	2.65
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	20	2.94	0.45	2.78
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	20	2.92	0.95	3.2
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	20	2.91	0.54	2.84
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	20	2.9	1.48	3.1
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	20	2.87	0.78	3.08
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	20	2.87	0.54	2.86

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	20	2.82	0.57	2.73
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	20	2.82	0.33	2.88
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	20	2.82	0.71	3.11
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	20	2.79	0.18	2.8
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	20	2.77	1.5	2.31
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	20	2.74	0.21	2.78
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	20	2.69	0.59	2.9
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	20	2.66	1.45	2.7
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	20	2.66	0.76	2.7
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	20	2.62	0.73	2.51
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	20	2.62	0.55	2.72
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	20	2.58	0.84	2.42
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	20	2.54	1.31	2.28
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	20	2.5	0.09	2.51
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	20	2.48	0.88	2.21
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	20	2.4	0.51	2.49
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	20	2.35	0.51	2.46
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	20	2.33	0.38	2.36
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	20	2.29	0.3	2.29
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	20	2.28	0.26	2.23
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	20	2.28	0.28	2.24
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	20	2.27	0.63	2.09
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	20	2.24	0.24	2.17
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	20	2.23	0.2	2.26
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	20	2.21	0.37	2.21
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	20	2.21	0.59	2.08
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	20	2.21	0.28	2.16
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	20	2.2	0.7	2.04
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	20	2.19	0.18	2.15
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	20	2.16	0.65	2.11
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	20	2.16	0.35	2.12
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	20	2.13	0.23	2.09
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	20	2.13	0.72	2.16
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	20	2.1	0.85	2.2
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	20	2.1	0.44	2.26
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	20	2.09	0.38	2.02
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	20	2.08	0.78	2.04
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	20	2.06	1.23	2.01
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	20	1.94	0.6	1.96
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	20	1.94	0.27	1.97
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	20	1.91	0.36	1.8
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	20	1.91	0.76	1.72

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	20	1.9	0.26	1.94
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	20	1.9	0.35	1.88
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	20	1.89	0.9	1.6
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	20	1.87	0.47	1.73
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	20	1.83	1.1	1.88
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	20	1.82	0.91	1.67
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	20	1.79	0.32	1.79
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	20	1.74	0.34	1.82
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	20	1.7	0.13	1.7
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	20	1.68	0.41	1.62
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	20	1.54	0.85	1.61
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	20	1.51	0.43	1.52
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	20	1.5	0.34	1.48
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	20	1.41	0.48	1.4
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	20	1.38	1.12	0.96
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	20	1.35	0.34	1.38
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	20	1.35	1.08	0.88
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	20	1.32	0.24	1.33
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	20	1.28	0.31	1.17
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	20	1.26	0.32	1.23
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	20	1.22	0.4	1.21
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	20	1.21	0.4	1.38
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	20	1.15	0.13	1.2
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	20	1.13	0.07	1.11
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	20	1.03	0.12	1.1
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	20	1.02	0.37	1.09
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	20	0.98	0.19	1.0
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	20	0.9	0.09	0.9
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	20	0.87	0.29	0.82
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	20	0.73	0.3	0.76
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	20	0.56	0.12	0.6
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	20	0.55	0.23	0.48
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	20	0.3	0.03	0.31
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	20	0.29	0.02	0.29
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	20	0.24	0.02	0.24
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	20	0.24	0.04	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	20	0.24	0.01	0.23
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	20	0.16	0.03	0.16
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	19	5.28	1.25	4.85
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	19	4.68	1.33	4.45
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	19	4.47	3.86	4.3
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	19	3.71	1.76	3.9

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	19	3.43	1.55	2.99
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	19	3.32	2.05	2.8
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	19	2.86	1.47	2.68
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	19	2.18	1.28	2.47
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	19	1.5	0.52	1.63
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	19	1.29	0.39	1.34
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	19	1.21	0.63	1.03
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	19	1.01	0.39	1.06
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	19	0.25	0.11	0.22
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	19	0.23	0.04	0.24
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	19	0.17	0.03	0.16
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	18	3.62	1.64	4.09
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	18	3.05	1.21	2.8
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	18	2.31	0.89	2.37
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	18	0.86	0.55	0.67
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	18	0.47	0.26	0.4
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	17	0.6	0.21	0.62
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	17	0.22	0.03	0.21
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	17	0.22	0.04	0.22
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	16	1.74	0.68	1.83
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	16	1.07	1.01	0.62
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	16	1.07	1.19	0.38
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	16	0.12	0.01	0.12
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	15	0.65	0.41	0.55
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	15	0.49	0.29	0.44
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	15	0.38	0.17	0.42
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	15	0.25	0.06	0.28
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	15	0.22	0.06	0.25
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	15	0.21	0.05	0.23
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	15	0.21	0.05	0.21
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	14	0.23	0.05	0.24
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	14	0.22	0.05	0.22
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	14	0.17	0.05	0.16
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	13	0.84	0.57	0.52
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	13	0.38	0.25	0.33
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	13	0.37	0.19	0.36
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	13	0.19	0.04	0.18
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	12	0.4	0.16	0.43
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	11	1.88	1.56	1.68
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	11	1.19	1.14	0.9
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	11	0.15	0.04	0.15
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	11	0.14	0.03	0.12

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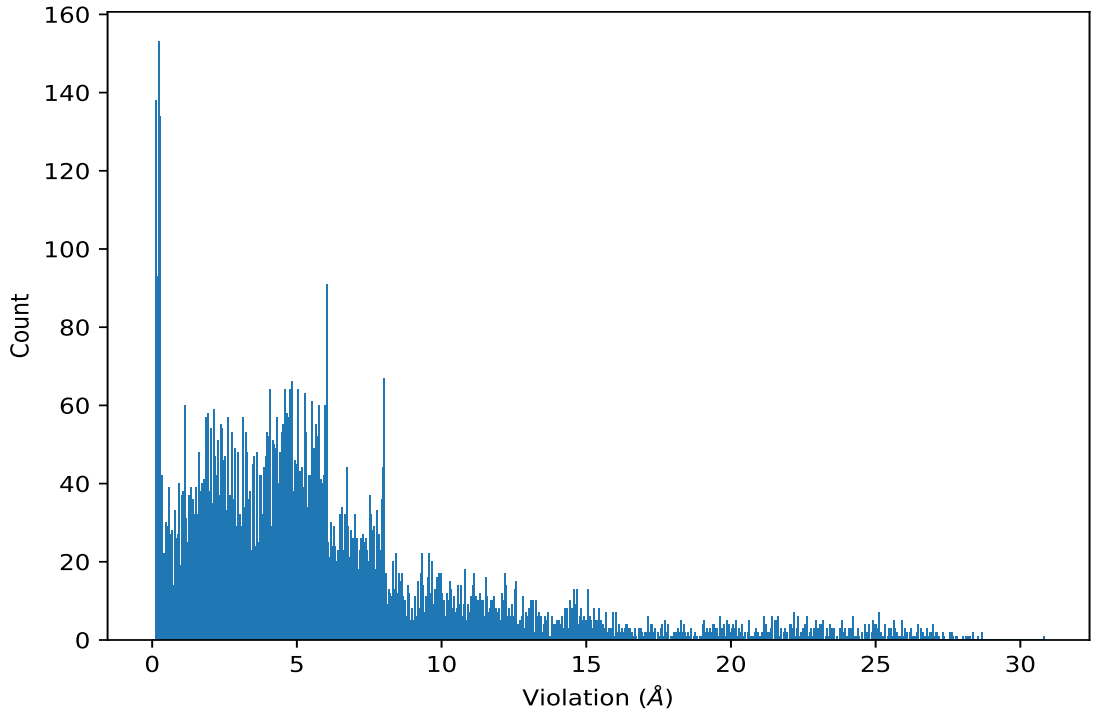
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	10	0.38	0.25	0.3
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	10	0.17	0.05	0.16
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	10	0.12	0.01	0.12
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	8	0.6	0.68	0.32
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	8	0.2	0.05	0.2
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	8	0.18	0.04	0.18
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	7	0.19	0.03	0.2
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	6	0.15	0.03	0.15
(1,580)	1:A:41:ILE:H	1:A:73:SER:CB	5	1.0	0.48	1.15
(3,25)	1:A:40:GLY:O	1:A:44:SER:N	5	0.14	0.02	0.14
(3,20)	1:A:29:VAL:O	1:A:33:ALA:N	3	0.13	0.02	0.13
(3,93)	1:A:39:VAL:O	1:A:42:ALA:H	3	0.12	0.01	0.12
(1,421)	1:A:20:GLY:H	1:A:100:SER:CB	2	0.18	0.04	0.18

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints

9.5.1 Histogram : Distribution of distance violations

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)
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	11	30.85
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	3	28.69
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	11	28.66
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	16	28.52
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	6	28.38
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	12	28.37
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	3	28.27
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	10	28.17
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	8	28.12
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	11	28.02
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	17	27.84
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	6	27.78
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	9	27.66
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	7	27.63
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	12	27.62
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	17	27.58
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	9	27.55
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	9	27.37
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	2	27.34
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	8	27.3
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	7	27.18
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	14	27.13
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	6	27.12
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	18	27.08
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	17	27.06
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	10	27.0
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	20	26.99
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	12	26.99
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	14	26.98
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	18	26.97
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	8	26.93
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	15	26.91
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	13	26.87
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	20	26.86
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	19	26.81
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	7	26.78
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	11	26.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	16	26.76
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	7	26.73
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	9	26.68
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	20	26.62
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	3	26.61
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	13	26.58
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	13	26.58
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	18	26.55
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	15	26.49
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	6	26.48
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	20	26.48
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	10	26.46
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	13	26.45
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	11	26.43
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	11	26.37
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	10	26.28
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	18	26.23
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	12	26.22
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	17	26.22
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	3	26.18
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	16	26.17
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	15	26.08
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	7	26.05
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	14	26.04
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	6	26.03
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	19	26.0
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	16	25.96
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	7	25.93
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	6	25.92
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	8	25.91
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	16	25.91
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	13	25.91
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	4	25.85
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	3	25.84
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	5	25.79
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	7	25.72
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	17	25.71
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	7	25.7
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	8	25.69
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	18	25.66
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	20	25.65
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	3	25.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	17	25.63
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	15	25.61
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	1	25.6
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	20	25.56
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	12	25.54
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	6	25.52
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	18	25.52
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	3	25.49
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	14	25.48
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	9	25.47
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	14	25.41
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	2	25.34
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	15	25.34
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	19	25.32
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	8	25.31
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	16	25.28
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	15	25.21
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	13	25.2
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	8	25.17
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	12	25.14
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	11	25.13
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	10	25.12
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	5	25.12
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	11	25.11
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	20	25.11
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	5	25.1
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	19	25.09
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	10	25.09
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	14	25.07
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	8	25.03
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	18	25.01
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	1	25.01
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	17	25.0
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	14	24.99
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	13	24.98
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	16	24.98
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	2	24.97
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	16	24.94
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	7	24.93
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	18	24.93
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	2	24.92
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	1	24.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	19	24.9
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	13	24.86
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	13	24.76
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	20	24.75
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	2	24.75
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	18	24.75
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	1	24.73
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	1	24.73
(1,601)	1:A:48:ALA:H	1:A:100:SER:CB	4	24.7
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	15	24.66
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	15	24.64
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	5	24.62
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	6	24.61
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	3	24.6
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	15	24.54
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	2	24.53
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	9	24.45
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	9	24.38
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	10	24.38
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	19	24.35
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	9	24.34
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	8	24.25
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	13	24.24
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	15	24.24
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	18	24.23
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	20	24.23
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	18	24.23
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	6	24.21
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	14	24.19
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	5	24.18
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	6	24.17
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	13	24.13
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	5	24.11
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	19	24.11
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	17	24.09
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	11	24.05
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	5	24.05
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	1	24.03
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	1	23.95
(1,604)	1:A:49:LYS:H	1:A:100:SER:CB	4	23.94
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	12	23.91
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	5	23.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	6	23.85
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	17	23.84
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	6	23.82
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	9	23.82
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	17	23.82
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	14	23.8
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	17	23.77
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	13	23.75
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	3	23.75
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	17	23.66
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	12	23.57
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	2	23.56
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	18	23.56
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	20	23.5
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	6	23.49
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	9	23.47
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	14	23.47
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	6	23.45
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	8	23.44
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	4	23.42
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	2	23.41
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	6	23.36
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	14	23.34
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	16	23.34
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	2	23.33
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	10	23.26
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	19	23.2
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	20	23.2
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	10	23.17
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	5	23.17
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	17	23.17
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	9	23.15
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	17	23.14
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	10	23.14
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	3	23.12
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	11	23.08
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	10	23.07
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	20	23.07
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	4	23.06
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	11	23.03
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	14	23.02
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	9	23.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,606)	1:A:50:MET:H	1:A:100:SER:CB	4	22.95
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	3	22.94
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	15	22.94
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	10	22.92
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	20	22.91
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	5	22.89
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	3	22.87
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	18	22.86
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	15	22.83
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	11	22.77
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	6	22.76
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	8	22.76
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	19	22.73
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	4	22.72
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	20	22.69
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	8	22.65
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	13	22.64
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	7	22.63
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	3	22.62
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	4	22.61
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	6	22.6
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	15	22.59
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	20	22.59
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	11	22.58
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	16	22.58
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	15	22.54
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	18	22.51
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	11	22.5
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	13	22.49
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	13	22.48
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	18	22.48
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	16	22.43
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	4	22.42
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	5	22.35
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	7	22.34
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	7	22.34
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	10	22.34
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	10	22.32
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	10	22.3
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	5	22.3
(1,598)	1:A:47:ALA:H	1:A:100:SER:CB	4	22.27
(1,614)	1:A:53:THR:H	1:A:100:SER:CB	1	22.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	6	22.25
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	20	22.21
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	13	22.2
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	6	22.2
(1,611)	1:A:52:SER:H	1:A:100:SER:CB	5	22.19
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	19	22.18
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	7	22.17
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	18	22.16
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	17	22.16
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	9	22.14
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	5	22.11
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	1	22.1
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	3	22.09
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	14	22.07
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	17	22.07
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	1	22.06
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	16	22.04
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	11	22.03
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	1	22.01
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	19	22.0
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	4	21.94
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	13	21.92
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	3	21.9
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	9	21.89
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	4	21.87
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	9	21.83
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	16	21.81
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	14	21.74
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	12	21.72
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	8	21.71
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	8	21.7
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	12	21.64
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	19	21.64
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	10	21.64
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	1	21.64
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	20	21.62
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	5	21.61
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	17	21.57
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	6	21.57
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	20	21.56
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	14	21.56
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	3	21.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	18	21.52
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	12	21.52
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	12	21.51
(1,616)	1:A:54:ALA:H	1:A:100:SER:CB	1	21.5
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	12	21.5
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	19	21.45
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	17	21.45
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	14	21.45
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	17	21.44
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	15	21.42
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	12	21.42
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	16	21.39
(1,609)	1:A:51:MET:H	1:A:100:SER:CB	20	21.37
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	6	21.36
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	10	21.34
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	20	21.3
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	15	21.26
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	16	21.25
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	3	21.23
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	17	21.23
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	6	21.21
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	7	21.21
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	16	21.2
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	13	21.19
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	9	21.19
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	19	21.18
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	6	21.15
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	11	21.13
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	18	21.13
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	9	21.12
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	4	21.11
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	4	21.11
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	11	21.06
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	4	21.05
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	7	21.02
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	7	20.97
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	2	20.92
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	10	20.92
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	7	20.88
(1,590)	1:A:44:SER:H	1:A:100:SER:CB	2	20.87
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	8	20.85
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	14	20.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:A:46:ILE:H	1:A:100:SER:CB	2	20.81
(1,593)	1:A:45:SER:H	1:A:100:SER:CB	2	20.75
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	20	20.74
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	4	20.66
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	1	20.64
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	1	20.64
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	3	20.64
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	11	20.62
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	19	20.6
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	12	20.58
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	5	20.57
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	18	20.49
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	7	20.47
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	17	20.44
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	10	20.4
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	7	20.36
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	14	20.36
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	16	20.35
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	8	20.32
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	2	20.31
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	3	20.26
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	18	20.26
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	10	20.25
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	20	20.24
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	13	20.19
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	8	20.19
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	11	20.18
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	5	20.16
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	15	20.16
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	15	20.15
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	4	20.12
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	19	20.12
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	2	20.08
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	17	20.07
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	13	20.07
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	16	20.05
(1,620)	1:A:56:ILE:H	1:A:100:SER:CB	16	20.01
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	19	20.0
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	6	20.0
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	1	19.99
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	4	19.97
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	9	19.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	20	19.95
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	11	19.92
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	15	19.91
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	9	19.89
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	15	19.87
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	12	19.86
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	19	19.86
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	14	19.86
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	4	19.81
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	4	19.79
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	16	19.78
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	8	19.77
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	7	19.77
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	8	19.73
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	14	19.72
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	20	19.68
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	7	19.67
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	15	19.66
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	9	19.65
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	6	19.65
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	9	19.65
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	10	19.61
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	5	19.61
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	1	19.6
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	18	19.57
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	8	19.54
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	13	19.51
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	13	19.51
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	16	19.48
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	8	19.48
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	12	19.47
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	20	19.43
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	13	19.43
(1,622)	1:A:57:ALA:H	1:A:100:SER:CB	1	19.43
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	14	19.41
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	8	19.4
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	14	19.39
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	12	19.36
(1,618)	1:A:55:ALA:H	1:A:100:SER:CB	1	19.35
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	5	19.33
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	16	19.3
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	3	19.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	13	19.25
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	7	19.25
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	20	19.24
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	17	19.23
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	19	19.2
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	1	19.2
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	18	19.16
(1,587)	1:A:43:ALA:H	1:A:100:SER:CB	2	19.11
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	6	19.11
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	4	19.09
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	11	19.09
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	9	19.08
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	9	19.07
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	2	19.06
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	12	19.04
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	15	19.03
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	7	19.02
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	19	19.0
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	16	18.99
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	8	18.94
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	17	18.83
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	12	18.78
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	13	18.75
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	7	18.7
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	9	18.63
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	14	18.62
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	12	18.61
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	8	18.58
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	19	18.5
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	5	18.5
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	13	18.49
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	1	18.43
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	3	18.41
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	3	18.39
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	8	18.38
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	6	18.38
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	12	18.35
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	9	18.33
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	10	18.33
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	8	18.28
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	1	18.28
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	9	18.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	16	18.27
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	9	18.25
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	2	18.24
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	1	18.23
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	10	18.19
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	19	18.17
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	16	18.17
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	18	18.13
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	14	18.12
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	11	18.08
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	1	18.05
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	3	18.04
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	14	18.01
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	15	17.95
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	20	17.94
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	13	17.84
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	17	17.83
(1,581)	1:A:41:ILE:H	1:A:100:SER:CB	2	17.81
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	3	17.8
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	12	17.77
(1,578)	1:A:40:GLY:H	1:A:100:SER:CB	2	17.76
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	18	17.74
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	7	17.73
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	11	17.71
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	15	17.71
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	15	17.7
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	1	17.66
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	3	17.65
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	8	17.65
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	4	17.63
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	11	17.62
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	5	17.58
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	14	17.57
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	12	17.55
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	12	17.51
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	18	17.48
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	12	17.48
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	8	17.39
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	1	17.37
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	8	17.35
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	12	17.33
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	3	17.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	20	17.28
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	17	17.27
(1,625)	1:A:59:GLY:H	1:A:100:SER:CB	4	17.26
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	15	17.25
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	11	17.24
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	11	17.24
(1,624)	1:A:58:ASN:H	1:A:100:SER:CB	1	17.23
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	15	17.22
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	7	17.19
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	6	17.18
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	19	17.14
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	16	17.13
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	19	17.12
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	18	17.11
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	7	17.1
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	5	17.1
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	7	17.09
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	12	17.06
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	10	17.01
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	18	17.0
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	20	16.98
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	18	16.94
(1,584)	1:A:42:ALA:H	1:A:100:SER:CB	2	16.92
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	9	16.88
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	4	16.88
(1,626)	1:A:60:GLY:H	1:A:100:SER:CB	2	16.85
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	16	16.81
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	18	16.8
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	17	16.8
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	15	16.71
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	7	16.69
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	20	16.67
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	19	16.66
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	5	16.65
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	9	16.55
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	1	16.55
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	4	16.54
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	14	16.53
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	16	16.51
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	6	16.49
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	5	16.47
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	12	16.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	19	16.43
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	3	16.42
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	4	16.41
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	14	16.41
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	3	16.39
(1,627)	1:A:61:GLY:H	1:A:100:SER:CB	15	16.38
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	1	16.36
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	8	16.35
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	8	16.34
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	15	16.32
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	8	16.31
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	17	16.26
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	5	16.25
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	11	16.24
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	4	16.21
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	14	16.21
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	17	16.18
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	20	16.17
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	11	16.15
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	14	16.13
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	10	16.12
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	11	16.12
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	15	16.09
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	9	16.06
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	7	16.04
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	13	16.04
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	7	16.04
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	7	16.04
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	9	16.03
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	14	16.03
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	15	16.02
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	15	15.99
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	16	15.95
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	9	15.95
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	20	15.92
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	12	15.91
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	8	15.9
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	9	15.9
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	8	15.9
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	6	15.88
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	10	15.87
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	19	15.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	5	15.84
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	16	15.81
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	16	15.8
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	4	15.77
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	13	15.76
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	3	15.76
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	14	15.73
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	5	15.71
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	13	15.68
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	16	15.68
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	15	15.66
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	14	15.66
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	20	15.66
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	12	15.65
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	3	15.65
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	8	15.63
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	8	15.62
(1,575)	1:A:39:VAL:H	1:A:100:SER:CB	2	15.61
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	20	15.57
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	17	15.57
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	13	15.56
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	18	15.56
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	19	15.53
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	1	15.52
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	7	15.51
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	2	15.5
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	19	15.5
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	14	15.49
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	19	15.47
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	18	15.44
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	15	15.44
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	4	15.43
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	4	15.43
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	20	15.43
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	1	15.42
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	8	15.41
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	11	15.41
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	15	15.39
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	8	15.39
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	6	15.38
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	10	15.37
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	19	15.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	7	15.34
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	13	15.34
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	15	15.34
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	6	15.32
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	13	15.32
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	18	15.29
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	17	15.29
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	1	15.29
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	1	15.28
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	15	15.28
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	6	15.26
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	8	15.26
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	4	15.25
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	15	15.24
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	10	15.23
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	10	15.23
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	17	15.2
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	11	15.17
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	13	15.17
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	3	15.15
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	16	15.15
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	9	15.14
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	1	15.14
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	11	15.13
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	2	15.12
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	13	15.12
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	2	15.11
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	5	15.1
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	15	15.1
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	2	15.09
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	17	15.07
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	4	15.07
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	1	15.07
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	15	15.07
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	11	15.06
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	16	15.06
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	5	15.06
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	2	15.05
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	20	15.05
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	13	15.05
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	7	15.03
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	10	15.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	8	15.01
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	20	15.0
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	6	14.97
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	10	14.96
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	8	14.96
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	16	14.96
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	12	14.96
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	17	14.94
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	8	14.94
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	4	14.94
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	16	14.92
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	1	14.91
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	10	14.91
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	20	14.89
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	8	14.88
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	3	14.88
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	12	14.87
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	15	14.86
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	18	14.85
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	3	14.84
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	12	14.83
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	19	14.83
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	19	14.83
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	18	14.82
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	9	14.82
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	19	14.8
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	15	14.79
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	6	14.79
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	9	14.77
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	5	14.76
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	10	14.76
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	10	14.75
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	3	14.73
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	3	14.72
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	20	14.72
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	14	14.72
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	18	14.7
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	4	14.7
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	7	14.7
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	5	14.7
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	20	14.69
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	15	14.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	8	14.68
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	16	14.67
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	13	14.67
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	7	14.66
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	13	14.66
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	14	14.65
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	13	14.65
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	20	14.64
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	13	14.63
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	17	14.63
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	2	14.63
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	13	14.63
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	15	14.62
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	20	14.61
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	19	14.61
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	7	14.61
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	2	14.6
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	1	14.59
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	14	14.59
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	19	14.59
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	20	14.59
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	11	14.59
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	3	14.58
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	20	14.58
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	7	14.56
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	7	14.55
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	3	14.55
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	1	14.55
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	11	14.55
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	11	14.54
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	6	14.54
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	9	14.54
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	10	14.53
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	16	14.52
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	2	14.52
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	18	14.52
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	17	14.51
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	10	14.49
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	8	14.49
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	11	14.48
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	5	14.47
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	4	14.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	2	14.47
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	19	14.46
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	9	14.46
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	7	14.44
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	13	14.44
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	5	14.44
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	4	14.42
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	12	14.42
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	10	14.42
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	3	14.42
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	1	14.41
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	10	14.41
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	20	14.4
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	7	14.38
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	12	14.37
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	15	14.36
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	8	14.35
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	7	14.35
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	11	14.34
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	4	14.34
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	1	14.33
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	15	14.33
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	16	14.32
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	6	14.3
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	5	14.29
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	12	14.29
(1,571)	1:A:38:SER:H	1:A:100:SER:CB	9	14.27
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	3	14.27
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	10	14.27
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	9	14.27
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	16	14.26
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	5	14.25
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	14	14.23
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	6	14.22
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	11	14.21
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	14	14.2
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	8	14.2
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	5	14.19
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	7	14.17
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	4	14.15
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	8	14.15
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	1	14.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	11	14.13
(1,563)	1:A:38:SER:CB	1:A:90:ALA:H	6	14.13
(1,565)	1:A:38:SER:CB	1:A:92:THR:H	13	14.12
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	17	14.09
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	15	14.07
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	5	14.06
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	4	14.05
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	9	14.05
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	8	14.02
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	4	14.02
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	18	14.01
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	9	13.99
(1,632)	1:A:65:GLY:H	1:A:100:SER:CB	2	13.99
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	2	13.98
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	4	13.97
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	20	13.96
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	10	13.94
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	19	13.93
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	3	13.93
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	19	13.91
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	11	13.89
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	19	13.89
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	3	13.87
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	16	13.87
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	15	13.85
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	5	13.83
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	17	13.82
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	2	13.82
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	10	13.81
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	16	13.8
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	13	13.77
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	1	13.74
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	9	13.7
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	8	13.7
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	10	13.68
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	14	13.67
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	14	13.67
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	18	13.66
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	5	13.65
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	15	13.64
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	18	13.63
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	2	13.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	1	13.63
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	12	13.61
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	12	13.6
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	14	13.59
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	6	13.56
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	9	13.56
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	1	13.56
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	17	13.55
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	7	13.54
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	11	13.51
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	20	13.51
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	16	13.5
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	4	13.48
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	13	13.47
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	12	13.45
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	18	13.44
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	13	13.43
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	6	13.42
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	9	13.42
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	9	13.42
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	8	13.39
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	10	13.38
(1,649)	1:A:66:SER:CB	1:A:92:THR:H	7	13.38
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	7	13.38
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	9	13.37
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	13	13.37
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	3	13.36
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	10	13.35
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	15	13.35
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	7	13.34
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	19	13.33
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	1	13.32
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	2	13.3
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	15	13.28
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	19	13.27
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	2	13.27
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	5	13.27
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	3	13.26
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	20	13.26
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	18	13.26
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	6	13.25
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	17	13.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	20	13.25
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	8	13.24
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	16	13.22
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	16	13.2
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	17	13.18
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	16	13.18
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	14	13.18
(1,628)	1:A:62:VAL:H	1:A:100:SER:CB	15	13.17
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	6	13.16
(1,631)	1:A:64:ALA:H	1:A:100:SER:CB	2	13.16
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	14	13.16
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	7	13.16
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	1	13.15
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	3	13.13
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	15	13.13
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	1	13.12
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	12	13.12
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	10	13.11
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	12	13.11
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	5	13.11
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	11	13.09
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	19	13.08
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	18	13.08
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	13	13.08
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	6	13.08
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	11	13.07
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	17	13.07
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	7	13.06
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	3	13.06
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	11	13.06
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	14	13.04
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	18	13.03
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	17	13.03
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	6	13.03
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	17	13.03
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	6	13.02
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	17	13.02
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	7	13.01
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	18	12.99
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	6	12.99
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	18	12.97
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	18	12.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	20	12.96
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	4	12.96
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	13	12.94
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	2	12.94
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	3	12.94
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	8	12.92
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	14	12.92
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	2	12.91
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	18	12.91
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	19	12.88
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	20	12.86
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	8	12.86
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	15	12.85
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	15	12.85
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	9	12.84
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	11	12.82
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	13	12.82
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	17	12.82
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	17	12.81
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	13	12.81
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	6	12.8
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	4	12.8
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	11	12.8
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	16	12.79
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	17	12.79
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	19	12.78
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	1	12.77
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	7	12.76
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	18	12.76
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	2	12.74
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	8	12.73
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	11	12.72
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	16	12.72
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	16	12.71
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	15	12.67
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	19	12.67
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	3	12.63
(1,520)	1:A:36:PHE:H	1:A:100:SER:CB	12	12.63
(1,656)	1:A:66:SER:H	1:A:100:SER:CB	2	12.62
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	15	12.61
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	10	12.6
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	1	12.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	13	12.59
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	9	12.59
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	7	12.59
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	15	12.59
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	20	12.58
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	9	12.58
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	12	12.58
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	7	12.57
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	9	12.57
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	11	12.56
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	13	12.56
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	2	12.55
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	9	12.55
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	4	12.54
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	20	12.54
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	16	12.54
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	10	12.54
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	12	12.53
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	9	12.52
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	7	12.52
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	16	12.52
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	6	12.51
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	12	12.51
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	15	12.5
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	19	12.5
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	9	12.5
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	13	12.49
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	11	12.49
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	14	12.48
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	19	12.48
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	3	12.46
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	8	12.46
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	14	12.45
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	8	12.45
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	19	12.45
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	19	12.45
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	9	12.43
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	11	12.42
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	1	12.42
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	5	12.41
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	4	12.4
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	12	12.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	7	12.38
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	8	12.38
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	20	12.38
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	19	12.37
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	11	12.36
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	1	12.35
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	8	12.34
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	13	12.34
(1,630)	1:A:63:ALA:H	1:A:100:SER:CB	1	12.32
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	2	12.32
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	5	12.31
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	18	12.31
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	11	12.3
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	5	12.28
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	19	12.28
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	1	12.28
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	5	12.27
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	4	12.26
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	6	12.26
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	16	12.24
(1,572)	1:A:38:SER:CB	1:A:103:SER:H	3	12.24
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	20	12.24
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	7	12.24
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	2	12.24
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	5	12.23
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	9	12.23
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	6	12.23
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	14	12.23
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	10	12.23
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	9	12.22
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	1	12.22
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	10	12.22
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	4	12.21
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	11	12.2
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	13	12.19
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	2	12.19
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	20	12.19
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	19	12.18
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	4	12.18
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	2	12.18
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	15	12.18
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	10	12.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	1	12.17
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	19	12.16
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	10	12.16
(1,573)	1:A:38:SER:CB	1:A:104:SER:H	18	12.16
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	2	12.16
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	20	12.16
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	7	12.16
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	3	12.15
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	12	12.13
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	4	12.13
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	8	12.12
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	9	12.12
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	12	12.12
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	11	12.12
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	12	12.12
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	13	12.12
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	6	12.12
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	6	12.11
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	18	12.1
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	1	12.1
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	13	12.1
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	6	12.09
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	7	12.08
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	18	12.06
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	1	12.06
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	12	12.06
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	10	12.06
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	6	12.06
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	5	12.05
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	12	12.05
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	8	12.04
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	6	12.02
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	4	12.01
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	16	12.01
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	10	12.0
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	19	11.99
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	3	11.99
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	6	11.99
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	11	11.98
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	9	11.97
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	6	11.97
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	5	11.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	1	11.96
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	12	11.95
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	19	11.94
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	2	11.93
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	18	11.93
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	12	11.91
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	16	11.91
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	5	11.9
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	2	11.89
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	14	11.88
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	3	11.88
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	17	11.87
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	12	11.87
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	12	11.86
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	5	11.86
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	2	11.86
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	5	11.85
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	6	11.85
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	8	11.84
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	11	11.83
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	4	11.82
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	18	11.82
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	3	11.81
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	3	11.8
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	8	11.8
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	11	11.8
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	18	11.8
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	8	11.79
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	9	11.78
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	3	11.77
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	7	11.76
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	11	11.76
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	8	11.76
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	12	11.75
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	9	11.75
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	15	11.75
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	16	11.75
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	17	11.74
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	5	11.74
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	12	11.74
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	14	11.73
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	20	11.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	3	11.73
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	16	11.72
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	12	11.71
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	2	11.71
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	4	11.71
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	11	11.7
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	3	11.69
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	15	11.67
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	17	11.67
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	19	11.67
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	2	11.66
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	13	11.66
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	12	11.66
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	15	11.64
(1,316)	1:A:9:SER:CB	1:A:40:GLY:H	14	11.63
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	1	11.63
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	8	11.62
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	15	11.62
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	20	11.62
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	8	11.61
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	14	11.6
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	5	11.59
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	14	11.59
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	19	11.58
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	10	11.58
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	8	11.57
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	20	11.56
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	12	11.56
(1,522)	1:A:37:THR:H	1:A:100:SER:CB	2	11.56
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	3	11.55
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	4	11.55
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	10	11.54
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	9	11.54
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	13	11.54
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	2	11.53
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	3	11.53
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	9	11.52
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	15	11.52
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	2	11.52
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	12	11.52
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	4	11.51
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	15	11.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	6	11.5
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	1	11.5
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	8	11.5
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	9	11.5
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	17	11.5
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	20	11.48
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	9	11.47
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	7	11.47
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	12	11.47
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	7	11.46
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	3	11.46
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	3	11.45
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	20	11.44
(1,562)	1:A:38:SER:CB	1:A:89:PHE:H	11	11.43
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	19	11.43
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	4	11.42
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	16	11.42
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	7	11.42
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	9	11.41
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	15	11.4
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	5	11.4
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	5	11.39
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	8	11.39
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	9	11.39
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	9	11.39
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	11	11.38
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	13	11.37
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	1	11.37
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	10	11.37
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	4	11.37
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	16	11.36
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	11	11.35
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	13	11.34
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	7	11.34
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	18	11.34
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	11	11.33
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	7	11.33
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	5	11.32
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	7	11.32
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	20	11.32
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	13	11.32
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	1	11.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	19	11.3
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	13	11.29
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	12	11.28
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	6	11.28
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	3	11.28
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	13	11.28
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	13	11.28
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	13	11.27
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	3	11.27
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	18	11.27
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	13	11.26
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	11	11.24
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	12	11.24
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	13	11.23
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	19	11.23
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	17	11.21
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	20	11.2
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	18	11.2
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	5	11.2
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	2	11.19
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	13	11.19
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	10	11.18
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	16	11.18
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	19	11.16
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	9	11.15
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	20	11.15
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	13	11.15
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	16	11.14
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	6	11.14
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	7	11.14
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	7	11.14
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	2	11.13
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	19	11.13
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	18	11.13
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	8	11.13
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	3	11.13
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	15	11.13
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	19	11.12
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	4	11.12
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	20	11.12
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	16	11.12
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	17	11.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	1	11.11
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	6	11.11
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	18	11.1
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	6	11.09
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	11	11.09
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	20	11.08
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	1	11.08
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	2	11.07
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	3	11.07
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	16	11.07
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	7	11.07
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	11	11.07
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	5	11.07
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	4	11.06
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	19	11.06
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	17	11.06
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	10	11.04
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	15	11.02
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	19	11.01
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	13	11.01
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	2	11.01
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	9	11.01
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	17	11.01
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	11	11.0
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	17	11.0
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	14	11.0
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	5	11.0
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	5	10.98
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	17	10.98
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	13	10.98
(1,659)	1:A:67:LEU:H	1:A:100:SER:CB	1	10.97
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	5	10.97
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	2	10.97
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	9	10.97
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	1	10.95
(1,660)	1:A:68:VAL:H	1:A:100:SER:CB	1	10.94
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	4	10.94
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	15	10.94
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	13	10.93
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	8	10.93
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	9	10.91
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	1	10.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	7	10.9
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	2	10.89
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	14	10.89
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	11	10.88
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	3	10.86
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	2	10.86
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	2	10.85
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	19	10.85
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	11	10.85
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	13	10.84
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	6	10.84
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	6	10.83
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	9	10.83
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	6	10.83
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	6	10.82
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	20	10.82
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	18	10.82
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	7	10.82
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	7	10.82
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	12	10.81
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	1	10.81
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	20	10.81
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	16	10.8
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	17	10.8
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	8	10.79
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	7	10.78
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	8	10.77
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	5	10.77
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	9	10.76
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	10	10.76
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	6	10.76
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	15	10.76
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	9	10.76
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	3	10.74
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	20	10.72
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	20	10.72
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	3	10.72
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	15	10.71
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	12	10.71
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	20	10.7
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	19	10.7
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	17	10.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	9	10.68
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	1	10.68
(1,275)	1:A:3:LYS:H	1:A:38:SER:CB	14	10.68
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	3	10.67
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	6	10.66
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	6	10.66
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	9	10.66
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	3	10.65
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	14	10.65
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	1	10.65
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	8	10.65
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	1	10.64
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	15	10.64
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	6	10.64
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	5	10.64
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	12	10.63
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	12	10.62
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	1	10.61
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	14	10.61
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	16	10.61
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	14	10.59
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	2	10.59
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	10	10.59
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	16	10.58
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	7	10.58
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	13	10.58
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	5	10.58
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	4	10.57
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	20	10.57
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	3	10.57
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	9	10.57
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	9	10.56
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	1	10.55
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	19	10.55
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	8	10.54
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	1	10.53
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	9	10.53
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	15	10.53
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	19	10.52
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	18	10.52
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	4	10.51
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	2	10.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	13	10.49
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	2	10.49
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	6	10.47
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	1	10.47
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	11	10.46
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	4	10.46
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	12	10.46
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	6	10.45
(1,564)	1:A:38:SER:CB	1:A:91:GLY:H	5	10.44
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	16	10.44
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	7	10.44
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	14	10.43
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	4	10.41
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	11	10.41
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	2	10.4
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	4	10.4
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	2	10.4
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	12	10.4
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	16	10.39
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	16	10.38
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	1	10.38
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	20	10.37
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	8	10.37
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	16	10.36
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	1	10.36
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	2	10.36
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	11	10.35
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	15	10.35
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	12	10.35
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	2	10.34
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	17	10.33
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	19	10.33
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	18	10.33
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	14	10.33
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	16	10.32
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	19	10.32
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	11	10.31
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	6	10.3
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	20	10.3
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	3	10.29
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	7	10.29
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	8	10.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	5	10.27
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	6	10.27
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	11	10.27
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	11	10.27
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	9	10.27
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	15	10.27
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	3	10.26
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	4	10.26
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	2	10.26
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	3	10.26
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	9	10.25
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	14	10.25
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	4	10.24
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	4	10.24
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	18	10.23
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	5	10.23
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	9	10.23
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	6	10.23
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	8	10.23
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	10	10.21
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	9	10.21
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	2	10.21
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	20	10.2
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	1	10.19
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	10	10.18
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	9	10.17
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	15	10.16
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	3	10.16
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	3	10.16
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	7	10.15
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	7	10.15
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	7	10.15
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	17	10.15
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	4	10.15
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	12	10.14
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	12	10.14
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	12	10.14
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	6	10.13
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	7	10.11
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	12	10.11
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	4	10.09
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	14	10.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	9	10.09
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	20	10.09
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	12	10.08
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	13	10.07
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	2	10.06
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	14	10.06
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	18	10.06
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	3	10.05
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	13	10.04
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	19	10.04
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	19	10.04
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	20	10.03
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	20	10.03
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	3	10.03
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	20	10.02
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	14	10.01
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	6	10.0
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	16	10.0
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	15	10.0
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	20	10.0
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	11	9.99
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	15	9.99
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	20	9.98
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	17	9.98
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	20	9.98
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	18	9.98
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	13	9.98
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	20	9.98
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	4	9.97
(1,567)	1:A:38:SER:CB	1:A:96:ALA:H	12	9.97
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	20	9.97
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	2	9.97
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	10	9.96
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	10	9.96
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	13	9.96
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	2	9.96
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	10	9.96
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	2	9.95
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	15	9.95
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	9	9.95
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	14	9.95
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	1	9.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	15	9.94
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	15	9.94
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	3	9.93
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	11	9.92
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	11	9.92
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	10	9.91
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	8	9.91
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	15	9.91
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	11	9.91
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	20	9.91
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	3	9.9
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	3	9.9
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	5	9.89
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	3	9.89
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	11	9.89
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	13	9.88
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	3	9.88
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	8	9.87
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	11	9.87
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	12	9.87
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	6	9.87
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	7	9.87
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	1	9.87
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	7	9.87
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	18	9.87
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	13	9.86
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	16	9.86
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	7	9.85
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	3	9.85
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	8	9.85
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	18	9.85
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	18	9.84
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	9	9.84
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	13	9.83
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	19	9.83
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	1	9.83
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	14	9.82
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	10	9.82
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	16	9.82
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	6	9.81
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	3	9.81
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	8	9.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	14	9.8
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	7	9.79
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	16	9.79
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	16	9.78
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	18	9.78
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	17	9.78
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	15	9.77
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	9	9.76
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	8	9.76
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	11	9.76
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	12	9.76
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	3	9.75
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	8	9.75
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	7	9.75
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	4	9.74
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	16	9.73
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	7	9.73
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	1	9.72
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	7	9.72
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	4	9.72
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	1	9.71
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	7	9.71
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	19	9.71
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	8	9.7
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	16	9.7
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	7	9.7
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	10	9.7
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	5	9.69
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	5	9.69
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	9	9.69
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	3	9.69
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	9	9.69
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	13	9.68
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	7	9.68
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	1	9.68
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	11	9.68
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	5	9.67
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	6	9.67
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	9	9.66
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	4	9.66
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	18	9.66
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	11	9.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	14	9.65
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	7	9.64
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	2	9.63
(1,568)	1:A:38:SER:CB	1:A:98:LEU:H	12	9.63
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	18	9.63
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	11	9.63
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	3	9.62
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	13	9.62
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	9	9.62
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	10	9.62
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	16	9.61
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	16	9.61
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	19	9.61
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	8	9.6
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	15	9.6
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	18	9.59
(1,315)	1:A:9:SER:CB	1:A:39:VAL:H	10	9.59
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	1	9.58
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	20	9.58
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	17	9.57
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	9	9.57
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	7	9.57
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	2	9.57
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	20	9.57
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	18	9.56
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	4	9.56
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	12	9.56
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	11	9.56
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	8	9.55
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	20	9.55
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	17	9.55
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	3	9.55
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	20	9.55
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	20	9.55
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	17	9.55
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	19	9.54
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	8	9.53
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	11	9.53
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	19	9.53
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	2	9.53
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	1	9.53
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	1	9.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	4	9.52
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	2	9.52
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	14	9.51
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	4	9.51
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	15	9.51
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	5	9.5
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	13	9.5
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	16	9.5
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	18	9.5
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	20	9.49
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	19	9.49
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	20	9.49
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	18	9.49
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	16	9.49
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	13	9.49
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	10	9.48
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	2	9.47
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	4	9.47
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	9	9.47
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	13	9.46
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	3	9.45
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	18	9.45
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	2	9.44
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	1	9.41
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	13	9.4
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	13	9.4
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	11	9.4
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	18	9.39
(1,570)	1:A:38:SER:CB	1:A:100:SER:H	2	9.38
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	8	9.38
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	1	9.38
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	2	9.38
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	17	9.37
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	2	9.37
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	6	9.37
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	15	9.37
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	16	9.35
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	3	9.35
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	14	9.35
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	5	9.35
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	11	9.35
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	1	9.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	13	9.33
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	1	9.33
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	14	9.33
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	5	9.33
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	7	9.33
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	15	9.32
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	1	9.32
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	15	9.32
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	13	9.32
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	19	9.32
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	6	9.32
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	19	9.32
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	7	9.31
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	17	9.31
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	14	9.31
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	9	9.3
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	11	9.3
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	8	9.3
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	16	9.3
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	3	9.3
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	18	9.3
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	18	9.29
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	11	9.29
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	18	9.29
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	12	9.29
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	12	9.29
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	7	9.29
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	14	9.27
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	15	9.27
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	17	9.27
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	14	9.27
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	16	9.27
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	11	9.27
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	16	9.27
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	1	9.27
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	20	9.26
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	5	9.26
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	9	9.25
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	14	9.23
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	9	9.23
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	12	9.23
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	18	9.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	10	9.22
(1,652)	1:A:66:SER:CB	1:A:96:ALA:H	12	9.22
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	4	9.22
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	10	9.21
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	6	9.2
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	17	9.2
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	18	9.2
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	16	9.2
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	4	9.2
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	6	9.19
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	9	9.19
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	19	9.17
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	3	9.16
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	6	9.16
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	10	9.15
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	12	9.15
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	12	9.15
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	5	9.15
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	13	9.15
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	3	9.12
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	10	9.12
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	19	9.12
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	12	9.11
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	16	9.11
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	5	9.1
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	3	9.09
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	8	9.08
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	18	9.08
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	16	9.08
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	13	9.07
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	11	9.07
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	8	9.07
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	16	9.07
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	9	9.07
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	18	9.06
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	12	9.05
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	17	9.04
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	12	9.04
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	5	9.04
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	16	9.02
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	19	9.0
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	10	8.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	6	8.99
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	13	8.99
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	10	8.99
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	7	8.97
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	15	8.96
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	6	8.96
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	11	8.96
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	14	8.94
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	16	8.93
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	4	8.93
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	2	8.92
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	19	8.9
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	7	8.89
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	10	8.89
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	1	8.88
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	20	8.87
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	4	8.87
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	18	8.87
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	2	8.87
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	18	8.86
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	15	8.86
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	2	8.85
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	15	8.85
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	8	8.85
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	11	8.84
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	17	8.84
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	18	8.84
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	14	8.83
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	19	8.83
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	7	8.83
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	19	8.83
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	18	8.82
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	3	8.81
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	11	8.81
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	12	8.8
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	14	8.8
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	15	8.8
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	2	8.8
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	3	8.79
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	15	8.78
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	8	8.78
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	16	8.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	3	8.76
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	16	8.76
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	9	8.74
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	16	8.74
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	15	8.73
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	3	8.73
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	10	8.72
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	16	8.72
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	7	8.72
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	18	8.71
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	4	8.71
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	6	8.71
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	13	8.7
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	9	8.7
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	11	8.7
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	8	8.69
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	16	8.69
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	6	8.68
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	2	8.67
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	12	8.66
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	14	8.65
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	1	8.65
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	8	8.65
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	6	8.64
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	16	8.64
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	4	8.63
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	16	8.63
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	16	8.63
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	13	8.62
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	9	8.62
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	7	8.62
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	4	8.61
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	8	8.61
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	9	8.6
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	13	8.6
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	9	8.6
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	18	8.6
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	7	8.6
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	14	8.6
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	15	8.6
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	1	8.59
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	20	8.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	19	8.58
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	13	8.58
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	2	8.57
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	20	8.57
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	8	8.57
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	11	8.57
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	1	8.56
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	15	8.56
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	4	8.56
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	12	8.55
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	14	8.55
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	16	8.55
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	5	8.55
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	7	8.54
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	20	8.54
(1,290)	1:A:7:TRP:H	1:A:38:SER:CB	10	8.54
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	20	8.53
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	10	8.53
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	16	8.53
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	2	8.53
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	9	8.53
(1,654)	1:A:66:SER:CB	1:A:99:GLY:H	12	8.52
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	9	8.52
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	10	8.52
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	11	8.52
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	11	8.52
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	5	8.51
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	2	8.51
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	6	8.5
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	8	8.5
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	17	8.49
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	12	8.49
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	15	8.49
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	10	8.48
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	14	8.48
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	6	8.47
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	15	8.47
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	10	8.47
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	9	8.47
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	2	8.46
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	15	8.46
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	13	8.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	3	8.45
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	20	8.45
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	11	8.44
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	20	8.44
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	10	8.43
(1,569)	1:A:38:SER:CB	1:A:99:GLY:H	12	8.43
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	3	8.43
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	6	8.43
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	14	8.43
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	10	8.42
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	12	8.42
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	18	8.41
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	17	8.41
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	3	8.41
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	8	8.41
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	17	8.41
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	13	8.41
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	3	8.41
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	6	8.41
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	12	8.4
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	11	8.4
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	4	8.4
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	6	8.39
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	18	8.39
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	7	8.39
(1,650)	1:A:66:SER:CB	1:A:93:ALA:H	17	8.38
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	18	8.38
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	18	8.38
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	14	8.37
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	13	8.36
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	13	8.36
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	20	8.36
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	2	8.35
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	17	8.35
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	4	8.35
(1,518)	1:A:35:GLY:H	1:A:100:SER:CB	19	8.34
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	20	8.34
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	8	8.34
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	4	8.34
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	16	8.34
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	3	8.34
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	17	8.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	19	8.33
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	16	8.33
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	9	8.33
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	8	8.32
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	18	8.32
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	9	8.32
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	19	8.32
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	14	8.32
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	10	8.32
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	5	8.32
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	5	8.31
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	10	8.31
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	18	8.3
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	10	8.29
(1,286)	1:A:6:GLY:H	1:A:38:SER:CB	17	8.29
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	15	8.28
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	4	8.28
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	17	8.27
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	8	8.27
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	6	8.26
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	17	8.25
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	16	8.25
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	12	8.25
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	19	8.25
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	9	8.24
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	2	8.24
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	4	8.23
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	18	8.23
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	2	8.23
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	15	8.22
(1,655)	1:A:66:SER:CB	1:A:100:SER:H	2	8.22
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	19	8.22
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	19	8.22
(1,317)	1:A:9:SER:CB	1:A:41:ILE:H	17	8.22
(1,279)	1:A:4:GLU:H	1:A:38:SER:CB	4	8.22
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	14	8.21
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	10	8.2
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	12	8.2
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	1	8.2
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	1	8.19
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	11	8.18
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	20	8.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	19	8.17
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	16	8.17
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	9	8.16
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	12	8.16
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	18	8.16
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	17	8.15
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	16	8.15
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	1	8.13
(1,661)	1:A:69:ALA:H	1:A:100:SER:CB	2	8.13
(1,561)	1:A:38:SER:CB	1:A:88:GLY:H	2	8.13
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	1	8.13
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	5	8.13
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	2	8.11
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	2	8.1
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	1	8.1
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	17	8.1
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	7	8.09
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	16	8.09
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	14	8.09
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	13	8.09
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	5	8.09
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	7	8.09
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	8	8.08
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	20	8.08
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	11	8.08
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	5	8.08
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	19	8.08
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	5	8.07
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	9	8.07
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	18	8.07
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	6	8.05
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	17	8.05
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	14	8.05
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	12	8.04
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	15	8.04
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	17	8.04
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	18	8.04
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	20	8.04
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	17	8.04
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	7	8.04
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	14	8.03
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	19	8.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	9	8.03
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	16	8.03
(1,657)	1:A:66:SER:CB	1:A:103:SER:H	5	8.02
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	2	8.02
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	5	8.02
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	16	8.02
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	7	8.02
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	4	8.02
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	16	8.02
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	1	8.02
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	6	8.02
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	17	8.02
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	19	8.02
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	10	8.02
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	5	8.01
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	19	8.01
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	2	8.0
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	3	8.0
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	14	8.0
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	15	8.0
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	17	8.0
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	20	8.0
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	18	8.0
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	8	8.0
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	4	8.0
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	16	8.0
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	7	8.0
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	15	8.0
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	19	8.0
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	9	8.0
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	4	8.0
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	10	8.0
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	11	8.0
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	16	8.0
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	17	8.0
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	4	8.0
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	7	8.0
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	3	8.0
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	5	8.0
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	12	8.0
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	15	8.0
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	16	8.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	2	8.0
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	10	8.0
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	13	8.0
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	18	8.0
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	20	8.0
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	1	8.0
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	12	8.0
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	1	8.0
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	20	8.0
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	4	8.0
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	16	8.0
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	17	8.0
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	19	8.0
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	16	8.0
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	4	8.0
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	16	8.0
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	5	7.99
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	15	7.99
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	16	7.99
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	7	7.99
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	9	7.99
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	18	7.99
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	3	7.99
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	2	7.99
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	5	7.99
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	9	7.99
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	15	7.98
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	4	7.98
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	10	7.98
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	9	7.98
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	1	7.98
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	16	7.98
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	13	7.98
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	8	7.98
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	17	7.98
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	14	7.98
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	19	7.98
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	7	7.97
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	4	7.97
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	17	7.97
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	15	7.97
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	6	7.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	15	7.96
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	12	7.96
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	7	7.96
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	3	7.96
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	17	7.96
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	14	7.96
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	11	7.96
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	15	7.96
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	7	7.96
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	6	7.95
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	11	7.95
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	10	7.95
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	3	7.95
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	10	7.95
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	8	7.95
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	9	7.95
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	3	7.95
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	11	7.95
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	7	7.94
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	19	7.94
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	15	7.94
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	4	7.94
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	6	7.94
(1,295)	1:A:8:ASP:H	1:A:100:SER:CB	8	7.94
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	11	7.94
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	16	7.93
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	3	7.93
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	9	7.93
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	17	7.93
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	16	7.93
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	18	7.92
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	6	7.92
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	14	7.92
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	9	7.92
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	11	7.92
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	13	7.92
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	13	7.92
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	15	7.92
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	6	7.92
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	17	7.91
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	6	7.91
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	13	7.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	6	7.91
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	19	7.91
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	6	7.91
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	10	7.91
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	15	7.91
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	4	7.91
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	9	7.9
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	2	7.9
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	20	7.9
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	18	7.9
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	9	7.9
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	1	7.9
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	7	7.89
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	7	7.89
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	11	7.89
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	8	7.89
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	16	7.89
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	18	7.89
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	17	7.89
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	5	7.88
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	13	7.88
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	1	7.88
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	3	7.88
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	11	7.87
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	14	7.87
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	5	7.87
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	13	7.87
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	18	7.87
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	17	7.87
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	17	7.86
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	7	7.86
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	2	7.86
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	10	7.86
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	12	7.86
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	11	7.86
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	7	7.85
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	18	7.85
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	9	7.84
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	9	7.84
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	20	7.84
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	6	7.84
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	3	7.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	9	7.84
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	10	7.84
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	1	7.83
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	12	7.83
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	2	7.83
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	1	7.83
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	9	7.83
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	8	7.82
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	17	7.82
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	11	7.82
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	7	7.82
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	16	7.82
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	8	7.81
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	20	7.81
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	1	7.81
(1,388)	1:A:12:ALA:H	1:A:100:SER:CB	4	7.81
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	19	7.81
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	5	7.81
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	16	7.81
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	18	7.81
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	4	7.8
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	5	7.8
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	8	7.8
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	9	7.8
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	12	7.8
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	20	7.8
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	2	7.79
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	12	7.79
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	8	7.79
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	12	7.79
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	5	7.78
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	7	7.78
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	3	7.78
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	14	7.78
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	4	7.78
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	10	7.78
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	20	7.78
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	3	7.77
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	5	7.77
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	12	7.77
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	19	7.77
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	9	7.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	10	7.76
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	13	7.76
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	4	7.76
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	18	7.76
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	4	7.76
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	9	7.75
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	18	7.75
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	7	7.75
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	7	7.75
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	2	7.75
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	18	7.75
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	2	7.74
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	6	7.74
(1,379)	1:A:10:GLY:H	1:A:100:SER:CB	14	7.74
(1,320)	1:A:9:SER:CB	1:A:44:SER:H	17	7.74
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	2	7.73
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	20	7.73
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	4	7.73
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	20	7.72
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	19	7.72
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	9	7.72
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	11	7.71
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	19	7.71
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	17	7.71
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	17	7.71
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	14	7.7
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	8	7.7
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	18	7.7
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	6	7.7
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	3	7.69
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	11	7.69
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	5	7.69
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	19	7.69
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	7	7.68
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	4	7.68
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	11	7.68
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	4	7.68
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	8	7.68
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	15	7.68
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	18	7.68
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	20	7.67
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	10	7.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	11	7.67
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	1	7.67
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	3	7.67
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	16	7.67
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	17	7.67
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	8	7.66
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	12	7.66
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	13	7.66
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	5	7.66
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	8	7.66
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	11	7.66
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	10	7.65
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	2	7.65
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	8	7.65
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	6	7.65
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	12	7.65
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	19	7.64
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	13	7.64
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	5	7.64
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	13	7.64
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	12	7.63
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	16	7.63
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	13	7.63
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	17	7.63
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	1	7.63
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	3	7.63
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	19	7.63
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	18	7.63
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	18	7.63
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	15	7.63
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	9	7.63
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	20	7.62
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	11	7.62
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	19	7.62
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	20	7.62
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	3	7.62
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	13	7.62
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	18	7.62
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	1	7.62
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	16	7.62
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	3	7.61
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	16	7.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	1	7.61
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	13	7.61
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	13	7.6
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	6	7.6
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	11	7.6
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	3	7.6
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	16	7.6
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	14	7.6
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	2	7.6
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	18	7.59
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	11	7.59
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	2	7.59
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	15	7.59
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	11	7.59
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	5	7.58
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	16	7.58
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	12	7.58
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	12	7.58
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	1	7.58
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	18	7.58
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	18	7.58
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	14	7.57
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	16	7.57
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	3	7.57
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	4	7.57
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	5	7.57
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	2	7.56
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	14	7.56
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	19	7.56
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	20	7.56
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	20	7.56
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	13	7.56
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	9	7.56
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	2	7.56
(1,658)	1:A:66:SER:CB	1:A:104:SER:H	18	7.55
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	13	7.55
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	7	7.55
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	15	7.55
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	16	7.55
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	1	7.55
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	7	7.55
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	18	7.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	12	7.54
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	5	7.54
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	19	7.54
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	9	7.54
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	19	7.53
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	20	7.53
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	7	7.53
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	6	7.53
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	19	7.53
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	16	7.53
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	7	7.53
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	12	7.53
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	20	7.52
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	7	7.52
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	3	7.52
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	1	7.52
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	5	7.52
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	2	7.51
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	11	7.51
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	15	7.51
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	10	7.51
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	19	7.51
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	1	7.51
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	4	7.5
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	1	7.5
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	7	7.5
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	3	7.5
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	14	7.5
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	8	7.5
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	14	7.49
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	11	7.49
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	9	7.49
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	6	7.48
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	5	7.48
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	17	7.48
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	12	7.48
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	17	7.48
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	15	7.47
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	5	7.46
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	6	7.46
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	14	7.46
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	18	7.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	15	7.46
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	7	7.46
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	13	7.46
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	16	7.46
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	5	7.46
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	3	7.46
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	17	7.45
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	13	7.44
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	1	7.44
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	9	7.44
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	9	7.44
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	16	7.43
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	3	7.43
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	7	7.43
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	18	7.42
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	1	7.42
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	17	7.42
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	15	7.42
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	2	7.42
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	14	7.42
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	4	7.42
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	1	7.41
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	9	7.41
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	17	7.4
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	3	7.4
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	7	7.4
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	14	7.4
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	20	7.4
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	17	7.4
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	17	7.4
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	1	7.39
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	7	7.39
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	8	7.39
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	7	7.39
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	17	7.39
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	4	7.39
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	15	7.39
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	9	7.38
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	13	7.38
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	14	7.38
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	14	7.38
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	9	7.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	10	7.38
(1,383)	1:A:11:ARG:H	1:A:100:SER:CB	14	7.37
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	3	7.37
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	10	7.37
(1,372)	1:A:9:SER:H	1:A:100:SER:CB	8	7.37
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	5	7.37
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	13	7.37
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	14	7.36
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	19	7.36
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	8	7.36
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	18	7.36
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	4	7.36
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	16	7.36
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	14	7.36
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	9	7.35
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	1	7.35
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	10	7.35
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	14	7.35
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	5	7.35
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	11	7.35
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	5	7.34
(1,560)	1:A:38:SER:CB	1:A:87:GLY:H	15	7.34
(1,288)	1:A:6:GLY:H	1:A:100:SER:CB	1	7.34
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	15	7.33
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	8	7.33
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	16	7.33
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	10	7.33
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	3	7.32
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	15	7.32
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	8	7.32
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	12	7.32
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	13	7.32
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	1	7.32
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	18	7.32
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	1	7.32
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	18	7.31
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	17	7.31
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	20	7.31
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	3	7.31
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	3	7.3
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	17	7.3
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	8	7.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	4	7.3
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	9	7.3
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	5	7.29
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	17	7.29
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	7	7.29
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	14	7.29
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	6	7.28
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	14	7.28
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	13	7.28
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	2	7.28
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	14	7.27
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	17	7.27
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	19	7.27
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	11	7.27
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	20	7.27
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	11	7.26
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	14	7.26
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	14	7.26
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	6	7.26
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	8	7.25
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	18	7.25
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	4	7.25
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	12	7.25
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	1	7.25
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	6	7.24
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	16	7.24
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	20	7.24
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	9	7.24
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	8	7.24
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	17	7.24
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	12	7.24
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	16	7.24
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	11	7.24
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	8	7.23
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	9	7.23
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	7	7.23
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	6	7.23
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	6	7.23
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	10	7.23
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	10	7.22
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	12	7.22
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	2	7.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	4	7.22
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	13	7.21
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	16	7.21
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	2	7.21
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	1	7.21
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	1	7.2
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	3	7.2
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	1	7.2
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	16	7.19
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	16	7.19
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	15	7.19
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	8	7.18
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	17	7.18
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	1	7.18
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	4	7.18
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	18	7.18
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	16	7.18
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	12	7.17
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	17	7.17
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	14	7.17
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	12	7.17
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	15	7.17
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	20	7.17
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	17	7.16
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	15	7.16
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	20	7.16
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	10	7.16
(1,338)	1:A:9:SER:CB	1:A:62:VAL:H	10	7.16
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	14	7.15
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	7	7.15
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	20	7.15
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	14	7.14
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	12	7.14
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	14	7.14
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	10	7.13
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	3	7.13
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	18	7.13
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	10	7.13
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	16	7.12
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	13	7.12
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	3	7.12
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	6	7.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	11	7.11
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	2	7.11
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	20	7.11
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	19	7.11
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	9	7.11
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	3	7.11
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	7	7.11
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	10	7.1
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	19	7.1
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	7	7.1
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	5	7.1
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	5	7.1
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	1	7.09
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	20	7.09
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	18	7.09
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	11	7.09
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	8	7.09
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	11	7.08
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	11	7.08
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	18	7.08
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	1	7.08
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	3	7.08
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	14	7.08
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	18	7.07
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	10	7.07
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	5	7.07
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	15	7.07
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	8	7.07
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	16	7.07
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	19	7.07
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	6	7.06
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	5	7.06
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	18	7.06
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	4	7.05
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	18	7.05
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	6	7.04
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	10	7.04
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	7	7.04
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	7	7.04
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	4	7.04
(1,333)	1:A:9:SER:CB	1:A:57:ALA:H	4	7.04
(1,309)	1:A:9:SER:CB	1:A:34:MET:H	14	7.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	20	7.03
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	17	7.03
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	20	7.03
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	4	7.03
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	15	7.03
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	9	7.03
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	9	7.02
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	8	7.02
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	13	7.02
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	2	7.02
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	2	7.02
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	6	7.01
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	7	7.01
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	11	7.01
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	13	7.01
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	2	7.01
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	6	7.0
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	4	7.0
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	8	7.0
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	19	7.0
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	5	7.0
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	4	7.0
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	11	7.0
(1,651)	1:A:66:SER:CB	1:A:95:GLY:H	5	6.99
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	6	6.99
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	3	6.99
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	7	6.99
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	7	6.99
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	13	6.98
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	1	6.98
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	9	6.98
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	6	6.98
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	3	6.97
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	14	6.96
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	6	6.96
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	12	6.96
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	14	6.96
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	16	6.96
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	16	6.95
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	9	6.95
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	8	6.95
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	9	6.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	12	6.95
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	14	6.95
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	8	6.95
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	13	6.95
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	11	6.94
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	4	6.94
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	15	6.94
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	14	6.94
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	14	6.93
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	20	6.93
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	11	6.93
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	14	6.93
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	9	6.93
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	13	6.93
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	17	6.93
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	4	6.93
(1,283)	1:A:5:SER:H	1:A:38:SER:CB	17	6.93
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	10	6.92
(1,386)	1:A:12:ALA:H	1:A:66:SER:CB	15	6.92
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	16	6.92
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	13	6.92
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	20	6.92
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	5	6.92
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	8	6.91
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	9	6.91
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	7	6.9
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	20	6.9
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	10	6.9
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	13	6.9
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	19	6.9
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	12	6.89
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	19	6.89
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	14	6.89
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	19	6.89
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	8	6.89
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	18	6.89
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	4	6.89
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	1	6.89
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	17	6.88
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	17	6.88
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	10	6.88
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	9	6.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	1	6.88
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	16	6.88
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	16	6.87
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	12	6.87
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	1	6.87
(1,401)	1:A:15:ALA:H	1:A:100:SER:CB	10	6.87
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	11	6.87
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	9	6.87
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	18	6.87
(1,312)	1:A:9:SER:CB	1:A:37:THR:H	10	6.87
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	3	6.87
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	8	6.87
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	14	6.87
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	12	6.86
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	13	6.86
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	11	6.86
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	1	6.85
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	14	6.85
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	17	6.85
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	15	6.85
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	9	6.84
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	16	6.84
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	5	6.84
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	5	6.84
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	10	6.84
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	4	6.83
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	1	6.83
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	19	6.83
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	7	6.83
(1,319)	1:A:9:SER:CB	1:A:43:ALA:H	10	6.83
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	8	6.83
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	6	6.82
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	9	6.82
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	19	6.82
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	4	6.82
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	20	6.81
(1,516)	1:A:34:MET:H	1:A:100:SER:CB	14	6.81
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	16	6.8
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	8	6.8
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	5	6.8
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	18	6.79
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	8	6.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	2	6.79
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	11	6.79
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	15	6.79
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	18	6.79
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	20	6.78
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	18	6.78
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	2	6.78
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	7	6.78
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	20	6.78
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	3	6.78
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	13	6.77
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	10	6.77
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	4	6.77
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	8	6.77
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	2	6.76
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	3	6.76
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	5	6.76
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	17	6.76
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	19	6.76
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	14	6.76
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	13	6.75
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	12	6.75
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	19	6.75
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	1	6.75
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	12	6.74
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	5	6.74
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	4	6.74
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	10	6.74
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	4	6.74
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	3	6.73
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	8	6.73
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	10	6.73
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	18	6.73
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	17	6.73
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	18	6.73
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	15	6.73
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	14	6.73
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	2	6.73
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	5	6.73
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	6	6.73
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	12	6.72
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	4	6.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	8	6.72
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	12	6.72
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	15	6.72
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	19	6.72
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	20	6.72
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	3	6.72
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	7	6.72
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	11	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	1	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	2	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	3	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	5	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	6	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	7	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	9	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	11	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	13	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	14	6.71
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	16	6.71
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	2	6.71
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	6	6.71
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	10	6.71
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	18	6.7
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	16	6.7
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	8	6.7
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	19	6.7
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	17	6.69
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	20	6.69
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	4	6.69
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	16	6.68
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	10	6.68
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	13	6.68
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	13	6.68
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	4	6.68
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	18	6.67
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	7	6.67
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	4	6.67
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	15	6.67
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	10	6.67
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	4	6.67
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	15	6.67
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	17	6.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	13	6.66
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	12	6.66
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	13	6.66
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	17	6.66
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	13	6.66
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	10	6.66
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	7	6.66
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	20	6.66
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	10	6.65
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	5	6.65
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	5	6.65
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	2	6.65
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	8	6.65
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	12	6.65
(1,339)	1:A:9:SER:CB	1:A:63:ALA:H	17	6.65
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	20	6.65
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	1	6.64
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	6	6.63
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	2	6.63
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	17	6.63
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	17	6.63
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	13	6.63
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	7	6.63
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	20	6.63
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	9	6.63
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	17	6.62
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	8	6.62
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	17	6.62
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	3	6.62
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	6	6.62
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	20	6.61
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	6	6.61
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	2	6.61
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	2	6.61
(1,381)	1:A:11:ARG:H	1:A:38:SER:CB	10	6.61
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	14	6.61
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	2	6.61
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	12	6.61
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	13	6.61
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	13	6.6
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	4	6.6
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	14	6.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	9	6.6
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	9	6.6
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	7	6.6
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	7	6.6
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	20	6.6
(1,367)	1:A:9:SER:CB	1:A:95:GLY:H	8	6.6
(1,298)	1:A:9:SER:CB	1:A:21:VAL:H	4	6.6
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	5	6.59
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	19	6.59
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	7	6.59
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	15	6.59
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	19	6.59
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	11	6.58
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	11	6.58
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	4	6.58
(1,507)	1:A:30:ALA:H	1:A:66:SER:CB	10	6.58
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	4	6.58
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	5	6.58
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	19	6.58
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	18	6.58
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	1	6.57
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	5	6.57
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	15	6.57
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	10	6.57
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	17	6.57
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	18	6.56
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	20	6.56
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	4	6.56
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	2	6.56
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	12	6.56
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	18	6.56
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	18	6.55
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	4	6.55
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	19	6.55
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	10	6.55
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	1	6.55
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	15	6.54
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	20	6.54
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	10	6.54
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	18	6.54
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	8	6.54
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	16	6.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	18	6.54
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	11	6.54
(1,376)	1:A:10:GLY:H	1:A:38:SER:CB	15	6.54
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	15	6.54
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	7	6.53
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	6	6.53
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	19	6.53
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	10	6.53
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	15	6.53
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	3	6.52
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	3	6.52
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	20	6.52
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	11	6.52
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	1	6.52
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	20	6.52
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	19	6.51
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	14	6.51
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	1	6.51
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	13	6.5
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	12	6.5
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	16	6.49
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	12	6.49
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	2	6.49
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	14	6.49
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	6	6.49
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	1	6.49
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	10	6.49
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	3	6.49
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	6	6.49
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	15	6.48
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	5	6.48
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	18	6.48
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	11	6.48
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	10	6.47
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	15	6.47
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	14	6.47
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	9	6.47
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	20	6.47
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	8	6.47
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	6	6.47
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	16	6.47
(1,666)	1:A:72:GLN:H	1:A:100:SER:CB	1	6.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,653)	1:A:66:SER:CB	1:A:98:LEU:H	12	6.46
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	5	6.46
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	9	6.46
(1,514)	1:A:33:ALA:H	1:A:100:SER:CB	14	6.46
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	13	6.46
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	2	6.45
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	16	6.45
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	18	6.45
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	17	6.45
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	12	6.45
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	7	6.44
(1,324)	1:A:9:SER:CB	1:A:48:ALA:H	10	6.44
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	17	6.43
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	18	6.43
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	13	6.43
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	14	6.43
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	17	6.43
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	4	6.43
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	17	6.43
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	11	6.43
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	3	6.43
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	16	6.42
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	12	6.42
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	15	6.42
(1,318)	1:A:9:SER:CB	1:A:42:ALA:H	17	6.41
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	3	6.41
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	20	6.4
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	20	6.4
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	9	6.4
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	18	6.4
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	4	6.4
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	20	6.4
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	4	6.4
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	13	6.39
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	18	6.39
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	15	6.39
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	9	6.39
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	13	6.39
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	17	6.39
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	8	6.38
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	9	6.38
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	19	6.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	8	6.38
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	10	6.38
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	12	6.38
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	3	6.38
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	7	6.37
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	8	6.37
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	3	6.37
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	11	6.36
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	6	6.36
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	2	6.36
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	1	6.36
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	18	6.35
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	12	6.35
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	3	6.35
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	20	6.35
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	5	6.35
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	8	6.34
(1,512)	1:A:32:SER:H	1:A:100:SER:CB	2	6.34
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	7	6.34
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	3	6.34
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	8	6.33
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	5	6.33
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	17	6.33
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	7	6.33
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	7	6.32
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	4	6.32
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	17	6.32
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	8	6.32
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	9	6.32
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	1	6.32
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	2	6.32
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	18	6.32
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	4	6.31
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	2	6.31
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	5	6.31
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	4	6.3
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	9	6.3
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	15	6.3
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	12	6.3
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	16	6.3
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	15	6.3
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	18	6.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	5	6.29
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	11	6.29
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	2	6.29
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	2	6.28
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	18	6.28
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	4	6.28
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	5	6.28
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	11	6.27
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	5	6.27
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	8	6.27
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	5	6.27
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	8	6.27
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	18	6.27
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	8	6.26
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	9	6.26
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	3	6.26
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	20	6.26
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	8	6.26
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	16	6.26
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	13	6.25
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	10	6.25
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	8	6.25
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	14	6.24
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	6	6.24
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	14	6.24
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	4	6.23
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	4	6.23
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	2	6.23
(1,648)	1:A:66:SER:CB	1:A:90:ALA:H	1	6.22
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	4	6.22
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	15	6.22
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	17	6.22
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	19	6.22
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	11	6.22
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	4	6.22
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	16	6.22
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	17	6.21
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	12	6.21
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	18	6.21
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	9	6.21
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	15	6.21
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	8	6.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	11	6.2
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	7	6.2
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	20	6.2
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	5	6.2
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	5	6.19
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	4	6.19
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	3	6.19
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	12	6.18
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	1	6.18
(1,566)	1:A:38:SER:CB	1:A:95:GLY:H	13	6.18
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	1	6.18
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	17	6.18
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	19	6.18
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	7	6.18
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	2	6.18
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	2	6.17
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	11	6.17
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	1	6.17
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	5	6.16
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	19	6.16
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	19	6.16
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	1	6.16
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	6	6.16
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	17	6.16
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	7	6.16
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	12	6.16
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	10	6.16
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	10	6.15
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	15	6.15
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	18	6.15
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	6	6.15
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	7	6.15
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	6	6.15
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	10	6.15
(1,488)	1:A:26:THR:CB	1:A:90:ALA:H	6	6.14
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	5	6.14
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	4	6.13
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	17	6.13
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	20	6.13
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	13	6.13
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	12	6.13
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	19	6.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	2	6.13
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	7	6.13
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	13	6.13
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	14	6.13
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	4	6.13
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	5	6.13
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	6	6.12
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	8	6.12
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	3	6.12
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	20	6.12
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	10	6.11
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	11	6.11
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	3	6.11
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	19	6.1
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	17	6.1
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	16	6.1
(1,646)	1:A:66:SER:CB	1:A:88:GLY:H	2	6.09
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	10	6.09
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	11	6.09
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	9	6.09
(1,597)	1:A:47:ALA:H	1:A:66:SER:CB	4	6.08
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	11	6.08
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	16	6.08
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	16	6.08
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	20	6.08
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	6	6.07
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	9	6.07
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	10	6.07
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	6	6.07
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	5	6.07
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	7	6.06
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	8	6.06
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	15	6.06
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	5	6.06
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	10	6.06
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	13	6.06
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	2	6.06
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	4	6.06
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	18	6.05
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	15	6.05
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	8	6.05
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	3	6.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	4	6.05
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	6	6.05
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	7	6.05
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	10	6.05
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	5	6.05
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	20	6.05
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	19	6.05
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	17	6.05
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	19	6.04
(1,662)	1:A:70:ILE:H	1:A:100:SER:CB	1	6.04
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	17	6.04
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	3	6.04
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	8	6.04
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	10	6.04
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	13	6.04
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	7	6.04
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	16	6.04
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	8	6.03
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	5	6.03
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	10	6.03
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	4	6.03
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	12	6.03
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	17	6.03
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	11	6.03
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	19	6.03
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	6	6.03
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	3	6.03
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	9	6.02
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	19	6.02
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	5	6.02
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	9	6.02
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	13	6.02
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	16	6.02
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	20	6.02
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	11	6.02
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	17	6.02
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	15	6.02
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	19	6.02
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	10	6.02
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	16	6.01
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	10	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	1	6.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	4	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	6	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	7	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	10	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	11	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	15	6.01
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	18	6.01
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	10	6.01
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	2	6.01
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	3	6.01
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	14	6.01
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	17	6.01
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	18	6.01
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	4	6.01
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	14	6.01
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	14	6.01
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	20	6.01
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	20	6.01
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	10	6.01
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	4	6.0
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	14	6.0
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	15	6.0
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	14	6.0
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	4	6.0
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	18	6.0
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	2	6.0
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	3	6.0
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	14	6.0
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	7	6.0
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	10	6.0
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	2	6.0
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	5	6.0
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	13	6.0
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	15	6.0
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	18	6.0
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	5	6.0
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	6	6.0
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	9	6.0
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	13	6.0
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	1	6.0
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	8	6.0
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	15	6.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	18	6.0
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	10	6.0
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	14	6.0
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	4	5.99
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	6	5.99
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	14	5.99
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	12	5.99
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	10	5.99
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	8	5.99
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	11	5.99
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	11	5.99
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	17	5.99
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	1	5.99
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	6	5.99
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	11	5.99
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	3	5.99
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	7	5.99
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	5	5.98
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	10	5.98
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	11	5.98
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	13	5.98
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	17	5.98
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	16	5.98
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	6	5.98
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	8	5.98
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	16	5.98
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	19	5.98
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	8	5.98
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	15	5.98
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	19	5.98
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	17	5.98
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	4	5.98
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	5	5.98
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	10	5.98
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	19	5.98
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	6	5.97
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	18	5.97
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	20	5.97
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	18	5.97
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	1	5.97
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	9	5.97
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	10	5.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	13	5.97
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	4	5.97
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	20	5.96
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	19	5.96
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	5	5.96
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	5	5.96
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	9	5.96
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	2	5.96
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	6	5.96
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	6	5.95
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	7	5.95
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	3	5.95
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	5	5.95
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	16	5.95
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	1	5.95
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	2	5.95
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	18	5.95
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	2	5.95
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	15	5.95
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	14	5.95
(1,321)	1:A:9:SER:CB	1:A:45:SER:H	17	5.95
(1,553)	1:A:38:SER:CB	1:A:79:LEU:H	19	5.94
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	4	5.94
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	3	5.94
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	16	5.94
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	11	5.94
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	12	5.94
(1,370)	1:A:9:SER:CB	1:A:98:LEU:H	6	5.94
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	9	5.94
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	4	5.94
(1,302)	1:A:9:SER:CB	1:A:27:VAL:H	14	5.94
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	13	5.93
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	14	5.93
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	2	5.93
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	7	5.93
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	10	5.93
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	13	5.92
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	12	5.92
(1,558)	1:A:38:SER:CB	1:A:84:LYS:H	7	5.92
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	12	5.92
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	9	5.92
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	8	5.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	12	5.92
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	19	5.92
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	3	5.92
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	10	5.92
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	12	5.91
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	2	5.91
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	13	5.91
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	12	5.91
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	3	5.91
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	1	5.91
(1,306)	1:A:9:SER:CB	1:A:31:LEU:H	14	5.91
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	8	5.9
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	11	5.9
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	5	5.9
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	13	5.9
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	5	5.9
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	15	5.9
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	19	5.9
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	20	5.9
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	11	5.9
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	3	5.9
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	5	5.89
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	16	5.89
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	19	5.89
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	8	5.89
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	16	5.89
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	1	5.89
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	12	5.89
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	5	5.89
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	19	5.88
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	5	5.88
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	9	5.88
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	9	5.88
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	20	5.88
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	16	5.88
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	16	5.88
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	14	5.88
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	17	5.88
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	4	5.88
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	6	5.88
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	5	5.88
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	9	5.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	17	5.88
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	15	5.88
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	4	5.87
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	7	5.87
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	2	5.87
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	10	5.87
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	2	5.87
(1,400)	1:A:15:ALA:H	1:A:66:SER:CB	15	5.87
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	16	5.87
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	10	5.87
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	12	5.86
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	14	5.86
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	6	5.86
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	19	5.86
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	11	5.86
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	13	5.86
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	15	5.86
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	11	5.86
(1,311)	1:A:9:SER:CB	1:A:36:PHE:H	14	5.86
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	3	5.85
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	3	5.85
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	6	5.85
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	16	5.85
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	11	5.85
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	15	5.85
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	19	5.85
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	4	5.84
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	13	5.84
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	9	5.84
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	15	5.84
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	14	5.84
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	7	5.84
(1,385)	1:A:12:ALA:H	1:A:38:SER:CB	10	5.84
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	8	5.84
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	17	5.84
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	13	5.83
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	17	5.83
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	3	5.83
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	20	5.83
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	15	5.82
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	9	5.82
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	4	5.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	3	5.82
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	2	5.82
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	19	5.82
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	15	5.82
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	10	5.81
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	20	5.81
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	3	5.81
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	19	5.81
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	1	5.81
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	2	5.81
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	11	5.81
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	9	5.81
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	17	5.81
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	12	5.81
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	15	5.81
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	6	5.81
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	10	5.81
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	16	5.81
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	12	5.8
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	13	5.8
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	12	5.8
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	19	5.8
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	6	5.8
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	6	5.8
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	20	5.8
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	2	5.8
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	15	5.8
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	18	5.8
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	19	5.8
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	1	5.8
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	14	5.8
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	14	5.8
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	3	5.8
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	15	5.79
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	2	5.79
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	8	5.79
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	10	5.79
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	14	5.79
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	12	5.79
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	10	5.79
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	10	5.79
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	14	5.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	18	5.78
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	14	5.78
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	6	5.78
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	10	5.78
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	16	5.78
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	16	5.78
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	10	5.78
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	14	5.78
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	17	5.78
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	4	5.77
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	8	5.77
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	19	5.77
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	8	5.77
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	3	5.77
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	1	5.77
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	8	5.77
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	16	5.77
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	14	5.77
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	4	5.77
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	7	5.77
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	11	5.77
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	16	5.76
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	10	5.76
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	11	5.76
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	15	5.76
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	12	5.76
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	12	5.76
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	2	5.76
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	6	5.76
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	17	5.75
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	8	5.75
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	9	5.75
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	1	5.75
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	19	5.75
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	1	5.75
(1,305)	1:A:9:SER:CB	1:A:30:ALA:H	14	5.75
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	20	5.74
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	3	5.74
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	3	5.74
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	11	5.74
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	6	5.74
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	15	5.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	2	5.74
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	20	5.74
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	16	5.74
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	20	5.74
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	15	5.74
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	6	5.74
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	16	5.73
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	13	5.73
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	1	5.73
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	13	5.73
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	3	5.73
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	16	5.73
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	10	5.73
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	14	5.73
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	13	5.73
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	11	5.73
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	16	5.73
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	9	5.72
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	6	5.72
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	9	5.72
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	6	5.72
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	1	5.72
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	10	5.72
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	7	5.71
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	1	5.71
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	7	5.71
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	4	5.71
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	14	5.71
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	18	5.71
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	17	5.71
(1,313)	1:A:9:SER:CB	1:A:38:SER:H	10	5.71
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	11	5.7
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	4	5.7
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	20	5.7
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	18	5.7
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	16	5.7
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	6	5.7
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	13	5.7
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	6	5.7
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	9	5.7
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	14	5.7
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	19	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	9	5.7
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	14	5.7
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	11	5.7
(1,271)	1:A:2:GLY:H	1:A:38:SER:CB	20	5.7
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	1	5.69
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	20	5.69
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	13	5.69
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	3	5.69
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	16	5.69
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	17	5.69
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	11	5.69
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	8	5.69
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	18	5.69
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	5	5.69
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	18	5.69
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	7	5.68
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	20	5.68
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	1	5.68
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	16	5.68
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	3	5.68
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	9	5.68
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	8	5.68
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	16	5.68
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	20	5.68
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	1	5.68
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	14	5.68
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	12	5.67
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	16	5.67
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	7	5.67
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	2	5.67
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	10	5.67
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	5	5.67
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	4	5.67
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	5	5.67
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	13	5.67
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	7	5.67
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	5	5.66
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	9	5.66
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	12	5.66
(1,591)	1:A:45:SER:H	1:A:66:SER:CB	6	5.66
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	7	5.66
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	3	5.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	10	5.66
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	8	5.66
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	6	5.66
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	20	5.66
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	6	5.65
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	9	5.65
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	8	5.65
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	20	5.65
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	16	5.65
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	15	5.65
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	11	5.65
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	7	5.65
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	2	5.65
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	18	5.65
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	17	5.65
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	8	5.65
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	13	5.65
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	12	5.64
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	15	5.64
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	6	5.64
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	14	5.64
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	6	5.64
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	4	5.64
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	11	5.64
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	15	5.64
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	12	5.64
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	15	5.63
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	11	5.63
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	13	5.63
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	12	5.63
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	18	5.63
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	14	5.62
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	17	5.62
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	15	5.62
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	13	5.62
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	10	5.62
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	6	5.62
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	11	5.62
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	12	5.62
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	1	5.62
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	14	5.61
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	15	5.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	10	5.61
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	11	5.61
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	7	5.61
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	13	5.61
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	10	5.61
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	20	5.61
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	17	5.61
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	19	5.61
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	15	5.61
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	11	5.6
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	3	5.6
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	12	5.6
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	7	5.6
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	16	5.6
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	11	5.6
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	16	5.6
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	3	5.6
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	7	5.6
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	7	5.59
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	7	5.59
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	6	5.59
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	19	5.59
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	5	5.59
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	10	5.58
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	17	5.58
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	2	5.58
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	2	5.58
(1,557)	1:A:38:SER:CB	1:A:83:SER:H	1	5.58
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	17	5.58
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	19	5.58
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	4	5.58
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	13	5.58
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	10	5.58
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	15	5.58
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	16	5.58
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	7	5.58
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	9	5.58
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	5	5.57
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	15	5.57
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	11	5.57
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	1	5.57
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	5	5.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	3	5.57
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	4	5.57
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	4	5.57
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	19	5.57
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	2	5.57
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	8	5.56
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	12	5.56
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	20	5.56
(1,669)	1:A:73:SER:CB	1:A:84:LYS:H	10	5.56
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	17	5.56
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	1	5.56
(1,505)	1:A:29:VAL:H	1:A:66:SER:CB	14	5.56
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	15	5.56
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	18	5.56
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	15	5.56
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	17	5.56
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	8	5.55
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	3	5.55
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	13	5.55
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	7	5.55
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	17	5.55
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	9	5.55
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	4	5.55
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	13	5.55
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	3	5.55
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	4	5.54
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	7	5.54
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	6	5.54
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	11	5.54
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	13	5.54
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	13	5.54
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	20	5.54
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	11	5.54
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	1	5.54
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	3	5.53
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	5	5.53
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	5	5.53
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	14	5.53
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	3	5.53
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	8	5.53
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	6	5.53
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	17	5.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	20	5.53
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	5	5.53
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	5	5.53
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	15	5.52
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	19	5.52
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	16	5.52
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	18	5.52
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	15	5.52
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	19	5.52
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	14	5.52
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	17	5.52
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	19	5.52
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	13	5.51
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	3	5.51
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	4	5.51
(1,602)	1:A:49:LYS:H	1:A:66:SER:CB	19	5.51
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	9	5.51
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	12	5.51
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	3	5.51
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	4	5.51
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	18	5.51
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	18	5.51
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	7	5.51
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	18	5.51
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	9	5.51
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	19	5.51
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	9	5.5
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	17	5.5
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	8	5.5
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	16	5.5
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	2	5.5
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	1	5.5
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	7	5.5
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	9	5.5
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	18	5.5
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	1	5.49
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	2	5.49
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	18	5.49
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	15	5.49
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	16	5.49
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	16	5.49
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	4	5.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	9	5.49
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	14	5.49
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	9	5.48
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	20	5.48
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	8	5.48
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	6	5.48
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	7	5.48
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	13	5.48
(1,503)	1:A:28:LEU:H	1:A:66:SER:CB	17	5.48
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	9	5.48
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	3	5.48
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	19	5.47
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	8	5.47
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	15	5.47
(1,466)	1:A:26:THR:H	1:A:66:SER:CB	17	5.47
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	16	5.47
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	13	5.47
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	3	5.46
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	8	5.46
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	13	5.46
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	4	5.46
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	14	5.46
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	20	5.46
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	8	5.46
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	14	5.46
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	12	5.46
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	8	5.46
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	14	5.46
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	5	5.46
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	9	5.45
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	2	5.45
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	16	5.45
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	16	5.45
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	20	5.45
(1,297)	1:A:9:SER:CB	1:A:20:GLY:H	10	5.45
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	7	5.44
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	5	5.44
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	12	5.44
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	11	5.44
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	1	5.44
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	11	5.44
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	2	5.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	6	5.44
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	10	5.44
(1,293)	1:A:8:ASP:H	1:A:38:SER:CB	10	5.44
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	19	5.43
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	13	5.43
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	11	5.43
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	16	5.43
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	16	5.43
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	9	5.43
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	3	5.43
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	15	5.42
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	12	5.42
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	8	5.42
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	18	5.42
(1,478)	1:A:26:THR:CB	1:A:79:LEU:H	8	5.42
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	5	5.42
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	16	5.42
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	16	5.42
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	5	5.41
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	16	5.41
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	12	5.41
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	20	5.41
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	18	5.41
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	8	5.41
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	17	5.4
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	7	5.4
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	17	5.4
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	4	5.4
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	5	5.4
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	1	5.4
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	7	5.4
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	14	5.4
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	6	5.4
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	10	5.4
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	4	5.4
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	13	5.39
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	3	5.39
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	15	5.39
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	20	5.39
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	5	5.39
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	13	5.39
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	15	5.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	10	5.39
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	12	5.38
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	18	5.38
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	10	5.38
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	2	5.38
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	14	5.38
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	6	5.38
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	14	5.37
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	2	5.37
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	13	5.37
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	14	5.37
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	18	5.37
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	2	5.37
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	17	5.37
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	6	5.37
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	11	5.37
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	6	5.37
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	14	5.36
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	1	5.36
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	7	5.36
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	12	5.36
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	3	5.36
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	11	5.36
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	19	5.36
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	1	5.36
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	17	5.36
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	16	5.36
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	18	5.35
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	14	5.35
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	6	5.35
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	19	5.35
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	1	5.35
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	17	5.35
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	16	5.35
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	6	5.35
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	12	5.35
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	8	5.35
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	18	5.34
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	8	5.34
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	15	5.34
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	8	5.34
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	18	5.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	20	5.34
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	16	5.34
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	9	5.34
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	5	5.34
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	19	5.34
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	12	5.34
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	15	5.34
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	7	5.34
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	3	5.33
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	13	5.33
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	20	5.33
(1,490)	1:A:26:THR:CB	1:A:94:LEU:H	2	5.33
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	13	5.33
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	15	5.33
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	4	5.33
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	1	5.32
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	12	5.32
(1,668)	1:A:73:SER:CB	1:A:83:SER:H	10	5.32
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	20	5.32
(1,599)	1:A:48:ALA:H	1:A:66:SER:CB	19	5.32
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	19	5.32
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	11	5.32
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	19	5.32
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	5	5.32
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	10	5.32
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	19	5.31
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	4	5.31
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	5	5.31
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	9	5.31
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	16	5.31
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	14	5.31
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	12	5.31
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	14	5.31
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	11	5.31
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	15	5.31
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	15	5.31
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	18	5.31
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	18	5.31
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	5	5.3
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	18	5.3
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	14	5.3
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	17	5.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	8	5.3
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	3	5.3
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	20	5.3
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	7	5.3
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	12	5.3
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	15	5.3
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	17	5.3
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	12	5.29
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	19	5.29
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	3	5.29
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	7	5.29
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	11	5.29
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	15	5.29
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	6	5.29
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	16	5.29
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	12	5.29
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	13	5.29
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	16	5.28
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	5	5.28
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	4	5.28
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	4	5.28
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	18	5.28
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	19	5.28
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	2	5.28
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	19	5.28
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	1	5.28
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	6	5.28
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	10	5.28
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	3	5.28
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	10	5.28
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	4	5.28
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	16	5.27
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	15	5.27
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	2	5.27
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	17	5.27
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	3	5.27
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	9	5.27
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	19	5.27
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	6	5.27
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	12	5.27
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	6	5.27
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	11	5.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	12	5.26
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	7	5.26
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	14	5.26
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	20	5.26
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	1	5.26
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	2	5.26
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	7	5.26
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	9	5.26
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	12	5.26
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	20	5.25
(1,677)	1:A:75:GLY:H	1:A:83:SER:CB	4	5.25
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	2	5.25
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	3	5.25
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	18	5.25
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	15	5.25
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	11	5.25
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	6	5.25
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	11	5.24
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	4	5.24
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	18	5.24
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	8	5.24
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	14	5.24
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	9	5.24
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	3	5.24
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	3	5.24
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	4	5.23
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	5	5.23
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	12	5.23
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	20	5.23
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	11	5.23
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	14	5.23
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	8	5.22
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	14	5.22
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	3	5.22
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	8	5.22
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	6	5.22
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	17	5.22
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	12	5.22
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	7	5.21
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	17	5.21
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	5	5.21
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	10	5.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	11	5.21
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	3	5.21
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	10	5.21
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	19	5.2
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	20	5.2
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	17	5.2
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	7	5.2
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	9	5.2
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	18	5.2
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	19	5.2
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	11	5.2
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	14	5.2
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	20	5.2
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	14	5.2
(1,686)	1:A:82:THR:H	1:A:100:SER:CB	2	5.19
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	9	5.19
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	13	5.19
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	4	5.19
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	2	5.19
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	8	5.19
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	9	5.19
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	1	5.18
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	16	5.18
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	10	5.18
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	17	5.18
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	20	5.18
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	12	5.18
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	17	5.18
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	16	5.18
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	16	5.18
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	5	5.18
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	7	5.17
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	9	5.17
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	17	5.17
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	6	5.17
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	2	5.17
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	16	5.17
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	13	5.17
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	20	5.17
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	3	5.16
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	13	5.16
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	1	5.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	11	5.16
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	3	5.16
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	13	5.16
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	16	5.16
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	17	5.16
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	2	5.16
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	1	5.16
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	6	5.16
(1,371)	1:A:9:SER:CB	1:A:100:SER:H	13	5.16
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	8	5.16
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	19	5.16
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	12	5.15
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	17	5.15
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	1	5.15
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	15	5.15
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	6	5.15
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	17	5.14
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	13	5.14
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	12	5.14
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	19	5.14
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	7	5.14
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	11	5.14
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	10	5.14
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	4	5.14
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	4	5.14
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	12	5.14
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	10	5.13
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	16	5.13
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	8	5.13
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	20	5.13
(1,537)	1:A:38:SER:CB	1:A:63:ALA:H	16	5.13
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	11	5.13
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	17	5.13
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	14	5.13
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	20	5.13
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	1	5.13
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	10	5.13
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	14	5.13
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	17	5.12
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	4	5.12
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	9	5.12
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	12	5.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	7	5.12
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	10	5.12
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	6	5.12
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	2	5.12
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	4	5.12
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	12	5.11
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	12	5.11
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	13	5.11
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	15	5.11
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	20	5.11
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	15	5.11
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	4	5.11
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	10	5.11
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	19	5.11
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	1	5.11
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	7	5.11
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	1	5.11
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	11	5.1
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	4	5.1
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	11	5.1
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	9	5.1
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	14	5.1
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	3	5.1
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	10	5.1
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	20	5.1
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	8	5.1
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	7	5.09
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	15	5.09
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	2	5.09
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	16	5.09
(1,310)	1:A:9:SER:CB	1:A:35:GLY:H	5	5.09
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	1	5.08
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	10	5.08
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	5	5.08
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	11	5.08
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	12	5.08
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	3	5.08
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	12	5.08
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	1	5.08
(1,323)	1:A:9:SER:CB	1:A:47:ALA:H	10	5.08
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	15	5.07
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	10	5.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	13	5.07
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	10	5.07
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	8	5.07
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	19	5.07
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	1	5.07
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	11	5.07
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	11	5.06
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	6	5.06
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	1	5.06
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	7	5.06
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	17	5.06
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	15	5.06
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	5	5.06
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	2	5.06
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	9	5.06
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	2	5.06
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	6	5.06
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	11	5.05
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	5	5.05
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	15	5.05
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	16	5.05
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	6	5.05
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	2	5.05
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	18	5.05
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	5	5.05
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	19	5.05
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	15	5.04
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	1	5.04
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	5	5.04
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	5	5.04
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	4	5.04
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	6	5.04
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	11	5.04
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	12	5.04
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	20	5.04
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	9	5.04
(1,664)	1:A:71:LEU:H	1:A:100:SER:CB	2	5.03
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	2	5.03
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	10	5.03
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	18	5.03
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	17	5.03
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	16	5.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	9	5.03
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	2	5.02
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	7	5.02
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	19	5.02
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	15	5.02
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	9	5.02
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	19	5.02
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	15	5.02
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	3	5.02
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	1	5.02
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	16	5.01
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	6	5.01
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	10	5.01
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	13	5.01
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	5	5.01
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	10	5.01
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	1	5.01
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	18	5.01
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	7	5.01
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	6	5.01
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	2	5.01
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	8	5.01
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	7	5.01
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	2	5.01
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	10	5.01
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	19	5.0
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	14	5.0
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	18	5.0
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	1	5.0
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	6	5.0
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	19	5.0
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	7	5.0
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	3	5.0
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	6	5.0
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	15	5.0
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	15	5.0
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	10	5.0
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	4	5.0
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	2	5.0
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	17	4.99
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	2	4.99
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	17	4.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	6	4.99
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	10	4.99
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	2	4.99
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	10	4.99
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	20	4.99
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	1	4.99
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	20	4.99
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	1	4.99
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	4	4.99
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	17	4.99
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	5	4.99
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	10	4.98
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	4	4.98
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	17	4.98
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	7	4.98
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	14	4.97
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	12	4.97
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	6	4.97
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	17	4.97
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	15	4.97
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	8	4.97
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	13	4.97
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	13	4.97
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	7	4.97
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	1	4.97
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	13	4.97
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	8	4.96
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	13	4.96
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	9	4.96
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	6	4.96
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	13	4.96
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	1	4.96
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	14	4.95
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	14	4.95
(1,670)	1:A:73:SER:CB	1:A:85:VAL:H	10	4.95
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	7	4.95
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	14	4.95
(1,500)	1:A:27:VAL:H	1:A:66:SER:CB	18	4.95
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	5	4.95
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	6	4.95
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	19	4.95
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	19	4.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	18	4.94
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	20	4.94
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	11	4.94
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	19	4.94
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	20	4.94
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	2	4.94
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	8	4.94
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	13	4.94
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	19	4.94
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	18	4.94
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	16	4.93
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	13	4.93
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	13	4.93
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	19	4.93
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	5	4.93
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	17	4.93
(1,314)	1:A:9:SER:H	1:A:38:SER:CB	10	4.93
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	8	4.93
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	3	4.92
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	7	4.92
(1,667)	1:A:73:SER:CB	1:A:82:THR:H	10	4.92
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	15	4.92
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	9	4.92
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	4	4.92
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	7	4.92
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	16	4.92
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	4	4.92
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	4	4.92
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	14	4.92
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	10	4.92
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	2	4.92
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	16	4.92
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	18	4.91
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	19	4.91
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	13	4.91
(1,494)	1:A:26:THR:CB	1:A:99:GLY:H	12	4.91
(1,479)	1:A:26:THR:CB	1:A:80:SER:H	4	4.91
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	7	4.91
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	15	4.91
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	3	4.91
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	11	4.91
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	6	4.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	10	4.9
(1,499)	1:A:27:VAL:H	1:A:38:SER:CB	12	4.9
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	14	4.9
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	19	4.9
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	16	4.89
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	19	4.89
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	13	4.89
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	2	4.89
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	6	4.89
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	14	4.89
(1,554)	1:A:38:SER:CB	1:A:80:SER:H	2	4.89
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	7	4.89
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	8	4.89
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	9	4.89
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	18	4.89
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	18	4.88
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	12	4.88
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	3	4.88
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	16	4.88
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	16	4.88
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	9	4.88
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	12	4.88
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	15	4.88
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	7	4.88
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	17	4.87
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	4	4.87
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	13	4.87
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	4	4.87
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	7	4.87
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	5	4.87
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	13	4.87
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	8	4.87
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	2	4.86
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	12	4.86
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	6	4.86
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	8	4.86
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	17	4.86
(1,368)	1:A:9:SER:CB	1:A:96:ALA:H	8	4.86
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	20	4.86
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	20	4.86
(1,292)	1:A:7:TRP:H	1:A:100:SER:CB	1	4.86
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	4	4.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	12	4.85
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	2	4.85
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	8	4.85
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	7	4.85
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	1	4.85
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	11	4.85
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	3	4.85
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	11	4.85
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	9	4.85
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	3	4.85
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	14	4.85
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	18	4.85
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	9	4.85
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	20	4.84
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	10	4.84
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	16	4.84
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	5	4.84
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	16	4.84
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	8	4.84
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	15	4.84
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	17	4.84
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	11	4.84
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	18	4.84
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	15	4.84
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	10	4.84
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	3	4.83
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	7	4.83
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	14	4.83
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	19	4.83
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	15	4.83
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	1	4.83
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	20	4.83
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	20	4.83
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	15	4.83
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	19	4.83
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	6	4.83
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	14	4.83
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	11	4.83
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	15	4.83
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	20	4.83
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	1	4.82
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	2	4.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	7	4.82
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	3	4.82
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	17	4.82
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	9	4.82
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	14	4.82
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	3	4.82
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	20	4.82
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	5	4.82
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	11	4.82
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	15	4.82
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	2	4.82
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	1	4.82
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	11	4.82
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	13	4.82
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	13	4.82
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	12	4.82
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	8	4.82
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	14	4.81
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	16	4.81
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	3	4.81
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	20	4.81
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	16	4.81
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	11	4.81
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	4	4.81
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	9	4.8
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	11	4.8
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	4	4.8
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	10	4.8
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	20	4.8
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	15	4.8
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	6	4.8
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	6	4.79
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	8	4.79
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	6	4.79
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	16	4.79
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	3	4.79
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	2	4.79
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	16	4.79
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	13	4.79
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	4	4.79
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	14	4.79
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	1	4.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	4	4.79
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	8	4.79
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	8	4.79
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	11	4.79
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	18	4.79
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	6	4.79
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	15	4.78
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	1	4.78
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	11	4.78
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	16	4.78
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	5	4.78
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	10	4.78
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	5	4.78
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	16	4.78
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	14	4.78
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	7	4.77
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	9	4.77
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	7	4.77
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	9	4.77
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	12	4.77
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	19	4.77
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	13	4.77
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	15	4.77
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	18	4.77
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	8	4.77
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	3	4.77
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	8	4.77
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	8	4.76
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	11	4.76
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	7	4.76
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	5	4.76
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	3	4.76
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	20	4.76
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	18	4.76
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	8	4.76
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	10	4.76
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	5	4.76
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	18	4.76
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	19	4.75
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	9	4.75
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	20	4.75
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	4	4.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	16	4.75
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	15	4.75
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	14	4.75
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	4	4.75
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	14	4.74
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	13	4.74
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	14	4.74
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	8	4.74
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	9	4.74
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	15	4.74
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	6	4.74
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	20	4.74
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	14	4.74
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	11	4.74
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	10	4.73
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	16	4.73
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	13	4.73
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	8	4.73
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	3	4.73
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	20	4.73
(1,576)	1:A:40:GLY:H	1:A:66:SER:CB	18	4.73
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	7	4.73
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	20	4.73
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	15	4.73
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	5	4.73
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	7	4.73
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	5	4.73
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	4	4.72
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	18	4.72
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	3	4.72
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	6	4.72
(1,636)	1:A:66:SER:CB	1:A:76:ALA:H	4	4.72
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	7	4.72
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	2	4.72
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	15	4.72
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	4	4.72
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	10	4.72
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	11	4.72
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	12	4.72
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	15	4.72
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	16	4.71
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	5	4.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	8	4.71
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	20	4.71
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	6	4.71
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	5	4.71
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	3	4.71
(1,373)	1:A:9:SER:CB	1:A:103:SER:H	11	4.71
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	1	4.71
(1,322)	1:A:9:SER:CB	1:A:46:ILE:H	10	4.71
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	12	4.7
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	19	4.7
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	4	4.7
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	20	4.7
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	1	4.7
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	1	4.7
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	7	4.7
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	14	4.7
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	15	4.7
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	11	4.7
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	8	4.7
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	20	4.69
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	11	4.69
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	3	4.69
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	19	4.69
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	10	4.69
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	18	4.69
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	6	4.69
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	4	4.69
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	11	4.69
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	3	4.68
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	9	4.68
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	13	4.68
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	14	4.68
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	20	4.68
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	7	4.68
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	5	4.68
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	12	4.68
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	6	4.68
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	10	4.68
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	13	4.68
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	1	4.68
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	16	4.68
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	6	4.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,678)	1:A:75:GLY:H	1:A:100:SER:CB	1	4.67
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	17	4.67
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	3	4.67
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	9	4.67
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	12	4.67
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	8	4.67
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	17	4.67
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	10	4.67
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	10	4.67
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	10	4.67
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	16	4.67
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	7	4.67
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	12	4.67
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	20	4.67
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	4	4.66
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	11	4.66
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	9	4.66
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	9	4.66
(1,536)	1:A:38:SER:CB	1:A:62:VAL:H	7	4.66
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	12	4.66
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	4	4.66
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	12	4.66
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	8	4.66
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	16	4.66
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	5	4.66
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	1	4.65
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	18	4.65
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	3	4.65
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	11	4.65
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	4	4.65
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	15	4.65
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	16	4.65
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	1	4.65
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	20	4.65
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	5	4.65
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	1	4.64
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	14	4.64
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	2	4.64
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	3	4.64
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	11	4.64
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	15	4.64
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	18	4.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	18	4.64
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	19	4.64
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	12	4.64
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	13	4.64
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	7	4.64
(1,325)	1:A:9:SER:CB	1:A:49:LYS:H	10	4.64
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	2	4.63
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	3	4.63
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	7	4.63
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	20	4.63
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	12	4.63
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	13	4.63
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	4	4.63
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	20	4.63
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	17	4.63
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	12	4.63
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	17	4.62
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	15	4.62
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	20	4.62
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	16	4.62
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	17	4.62
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	9	4.62
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	17	4.62
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	2	4.61
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	1	4.61
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	18	4.61
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	4	4.61
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	13	4.61
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	10	4.61
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	9	4.61
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	4	4.61
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	17	4.61
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	9	4.61
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	13	4.6
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	1	4.6
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	3	4.6
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	13	4.6
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	17	4.6
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	3	4.6
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	20	4.6
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	6	4.6
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	2	4.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	5	4.6
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	5	4.6
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	9	4.6
(1,350)	1:A:9:SER:CB	1:A:73:SER:H	14	4.6
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	3	4.6
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	5	4.59
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	19	4.59
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	13	4.59
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	6	4.59
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	8	4.59
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	18	4.59
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	1	4.59
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	4	4.59
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	19	4.58
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	5	4.58
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	8	4.58
(1,679)	1:A:76:ALA:H	1:A:83:SER:CB	12	4.58
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	10	4.58
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	5	4.58
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	8	4.58
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	18	4.58
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	13	4.58
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	5	4.57
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	8	4.57
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	7	4.57
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	18	4.57
(1,552)	1:A:38:SER:CB	1:A:78:GLY:H	2	4.57
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	13	4.57
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	15	4.57
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	6	4.57
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	10	4.57
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	20	4.57
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	5	4.57
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	5	4.57
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	4	4.56
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	18	4.56
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	6	4.56
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	12	4.56
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	11	4.56
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	20	4.56
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	3	4.56
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	12	4.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	15	4.56
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	20	4.56
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	4	4.56
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	3	4.56
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	6	4.56
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	2	4.55
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	8	4.55
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	11	4.55
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	16	4.55
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	13	4.55
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	19	4.55
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	5	4.55
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	6	4.55
(1,682)	1:A:79:LEU:H	1:A:100:SER:CB	1	4.54
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	5	4.54
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	1	4.54
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	11	4.54
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	2	4.54
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	1	4.54
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	14	4.54
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	1	4.54
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	17	4.54
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	5	4.54
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	9	4.54
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	13	4.54
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	1	4.54
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	12	4.53
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	11	4.53
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	14	4.53
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	14	4.53
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	4	4.53
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	15	4.53
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	16	4.53
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	15	4.53
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	12	4.53
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	15	4.53
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	20	4.53
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	13	4.53
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	19	4.53
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	17	4.52
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	11	4.52
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	14	4.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	9	4.52
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	4	4.52
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	15	4.52
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	17	4.52
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	20	4.52
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	9	4.52
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	18	4.52
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	10	4.52
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	15	4.51
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	19	4.51
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	3	4.51
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	18	4.51
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	18	4.51
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	20	4.51
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	10	4.51
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	2	4.51
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	18	4.5
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	15	4.5
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	17	4.5
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	12	4.5
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	17	4.5
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	2	4.5
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	15	4.5
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	1	4.5
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	8	4.5
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	4	4.5
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	2	4.49
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	2	4.49
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	12	4.49
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	15	4.49
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	18	4.49
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	19	4.49
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	4	4.49
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	19	4.49
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	5	4.49
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	19	4.49
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	3	4.48
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	10	4.48
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	5	4.48
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	18	4.48
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	8	4.48
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	12	4.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	7	4.47
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	4	4.47
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	2	4.47
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	9	4.47
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	11	4.47
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	14	4.47
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	5	4.47
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	11	4.47
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	20	4.47
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	12	4.47
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	18	4.47
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	7	4.47
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	6	4.47
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	11	4.47
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	6	4.47
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	9	4.46
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	10	4.46
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	17	4.46
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	13	4.46
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	3	4.46
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	7	4.46
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	1	4.46
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	2	4.46
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	20	4.46
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	18	4.46
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	4	4.46
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	2	4.45
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	12	4.45
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	16	4.45
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	7	4.45
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	10	4.45
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	2	4.45
(1,442)	1:A:26:THR:CB	1:A:41:ILE:H	13	4.45
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	11	4.45
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	1	4.45
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	17	4.45
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	1	4.45
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	17	4.44
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	14	4.44
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	2	4.44
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	3	4.44
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	17	4.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	10	4.44
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	6	4.44
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	4	4.44
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	20	4.44
(1,407)	1:A:17:VAL:H	1:A:26:THR:CB	20	4.44
(1,647)	1:A:66:SER:CB	1:A:89:PHE:H	19	4.43
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	2	4.43
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	2	4.43
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	2	4.43
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	6	4.43
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	15	4.42
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	12	4.42
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	10	4.42
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	17	4.42
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	5	4.42
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	18	4.42
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	11	4.42
(1,382)	1:A:11:ARG:H	1:A:66:SER:CB	15	4.42
(1,369)	1:A:9:SER:CB	1:A:97:TRP:H	8	4.42
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	12	4.42
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	12	4.42
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	7	4.41
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	10	4.41
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	18	4.41
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	10	4.41
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	14	4.41
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	5	4.41
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	15	4.4
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	19	4.4
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	18	4.4
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	1	4.4
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	11	4.4
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	11	4.4
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	9	4.4
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	13	4.4
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	1	4.4
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	4	4.4
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	4	4.4
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	16	4.4
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	4	4.4
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	20	4.4
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	1	4.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	9	4.4
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	19	4.39
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	2	4.39
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	3	4.39
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	6	4.39
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	15	4.39
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	19	4.39
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	2	4.39
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	1	4.39
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	18	4.39
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	6	4.39
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	16	4.39
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	10	4.39
(1,675)	1:A:73:SER:H	1:A:100:SER:CB	1	4.38
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	8	4.38
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	12	4.38
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	14	4.38
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	19	4.38
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	5	4.38
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	20	4.38
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	5	4.38
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	16	4.37
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	20	4.37
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	2	4.37
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	18	4.37
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	7	4.37
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	3	4.37
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	18	4.37
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	5	4.37
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	16	4.37
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	4	4.37
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	17	4.37
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	3	4.36
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	19	4.36
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	1	4.36
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	16	4.36
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	9	4.36
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	13	4.36
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	12	4.36
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	2	4.36
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	18	4.36
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	15	4.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	4	4.35
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	20	4.35
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	6	4.34
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	13	4.34
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	7	4.34
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	13	4.34
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	15	4.34
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	8	4.34
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	16	4.34
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	10	4.34
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	3	4.34
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	19	4.34
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	2	4.34
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	7	4.34
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	2	4.34
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	17	4.33
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	19	4.33
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	11	4.33
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	1	4.33
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	6	4.33
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	6	4.33
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	5	4.33
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	18	4.33
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	20	4.33
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	5	4.33
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	1	4.33
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	9	4.33
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	5	4.33
(1,645)	1:A:66:SER:CB	1:A:87:GLY:H	4	4.32
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	5	4.32
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	15	4.32
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	2	4.32
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	9	4.32
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	9	4.32
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	4	4.32
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	2	4.32
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	14	4.31
(1,672)	1:A:73:SER:CB	1:A:87:GLY:H	10	4.31
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	1	4.31
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	18	4.31
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	18	4.31
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	7	4.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	8	4.31
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	8	4.31
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	7	4.31
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	10	4.31
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	13	4.31
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	7	4.31
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	9	4.3
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	5	4.3
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	1	4.3
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	20	4.3
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	19	4.3
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	12	4.3
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	6	4.3
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	3	4.3
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	2	4.29
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	20	4.29
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	6	4.29
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	6	4.29
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	2	4.29
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	5	4.29
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	12	4.29
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	16	4.29
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	10	4.29
(1,340)	1:A:9:SER:CB	1:A:64:ALA:H	17	4.29
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	18	4.28
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	15	4.28
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	6	4.28
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	13	4.28
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	17	4.28
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	14	4.28
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	11	4.28
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	7	4.28
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	12	4.28
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	2	4.27
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	3	4.27
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	1	4.27
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	11	4.27
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	6	4.27
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	3	4.27
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	17	4.27
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	17	4.26
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	3	4.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	1	4.26
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	3	4.26
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	16	4.26
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	4	4.26
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	14	4.26
(1,393)	1:A:13:ALA:H	1:A:100:SER:CB	14	4.26
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	4	4.26
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	17	4.26
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	11	4.25
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	16	4.25
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	5	4.25
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	9	4.25
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	11	4.25
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	15	4.25
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	14	4.25
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	2	4.25
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	2	4.25
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	20	4.25
(1,351)	1:A:9:SER:CB	1:A:74:VAL:H	14	4.25
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	4	4.25
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	18	4.25
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	2	4.24
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	9	4.24
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	14	4.24
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	16	4.24
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	16	4.24
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	17	4.24
(1,555)	1:A:38:SER:CB	1:A:81:VAL:H	7	4.24
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	11	4.24
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	13	4.24
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	3	4.24
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	6	4.24
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	9	4.24
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	13	4.24
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	8	4.24
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	11	4.23
(1,559)	1:A:38:SER:CB	1:A:86:ILE:H	7	4.23
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	18	4.23
(1,548)	1:A:38:SER:CB	1:A:73:SER:H	14	4.23
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	13	4.23
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	8	4.23
(1,429)	1:A:24:VAL:H	1:A:66:SER:CB	17	4.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	6	4.23
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	3	4.23
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	5	4.23
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	11	4.23
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	5	4.23
(1,296)	1:A:9:SER:CB	1:A:19:GLY:H	3	4.23
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	11	4.23
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	4	4.22
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	11	4.22
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	10	4.22
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	5	4.22
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	18	4.22
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	18	4.22
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	7	4.22
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	16	4.21
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	8	4.21
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	12	4.21
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	1	4.21
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	4	4.21
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	20	4.21
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	2	4.21
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	9	4.21
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	14	4.21
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	17	4.21
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	13	4.2
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	1	4.2
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	3	4.2
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	5	4.2
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	12	4.2
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	12	4.19
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	17	4.19
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	7	4.19
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	13	4.19
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	18	4.19
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	16	4.19
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	12	4.19
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	4	4.19
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	17	4.19
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	1	4.19
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	7	4.18
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	8	4.18
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	9	4.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,603)	1:A:49:LYS:H	1:A:73:SER:CB	8	4.18
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	3	4.18
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	1	4.18
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	6	4.18
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	7	4.18
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	1	4.18
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	13	4.18
(1,673)	1:A:73:SER:CB	1:A:88:GLY:H	2	4.17
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	3	4.17
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	3	4.17
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	7	4.17
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	14	4.17
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	14	4.17
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	1	4.17
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	12	4.17
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	5	4.17
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	17	4.17
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	8	4.17
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	10	4.17
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	8	4.17
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	9	4.17
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	17	4.17
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	20	4.17
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	13	4.16
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	12	4.16
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	19	4.16
(1,437)	1:A:26:THR:CB	1:A:37:THR:H	10	4.16
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	14	4.16
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	19	4.16
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	10	4.16
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	7	4.15
(1,556)	1:A:38:SER:CB	1:A:82:THR:H	7	4.15
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	6	4.15
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	3	4.15
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	20	4.15
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	2	4.15
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	7	4.15
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	5	4.15
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	20	4.14
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	13	4.14
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	10	4.14
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	1	4.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	19	4.14
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	12	4.14
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	7	4.14
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	5	4.14
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	8	4.13
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	16	4.13
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	19	4.13
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	8	4.13
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	8	4.13
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	16	4.13
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	16	4.12
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	20	4.12
(1,506)	1:A:29:VAL:H	1:A:100:SER:CB	2	4.12
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	11	4.12
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	13	4.12
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	17	4.12
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	7	4.12
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	6	4.12
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	8	4.11
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	1	4.11
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	15	4.11
(1,546)	1:A:38:SER:CB	1:A:71:LEU:H	10	4.11
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	5	4.11
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	19	4.11
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	15	4.11
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	14	4.1
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	18	4.1
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	15	4.1
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	20	4.1
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	4	4.1
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	18	4.1
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	19	4.1
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	4	4.1
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	15	4.09
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	3	4.09
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	12	4.09
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	17	4.09
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	5	4.09
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	11	4.09
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	17	4.09
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	10	4.09
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	3	4.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	11	4.09
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	17	4.09
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	7	4.09
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	9	4.09
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	3	4.09
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	12	4.08
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	20	4.08
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	19	4.08
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	20	4.08
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	15	4.08
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	15	4.08
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	20	4.08
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	8	4.08
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	15	4.08
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	16	4.08
(1,332)	1:A:9:SER:CB	1:A:56:ILE:H	10	4.08
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	13	4.07
(1,623)	1:A:58:ASN:H	1:A:66:SER:CB	4	4.07
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	7	4.07
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	14	4.07
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	8	4.07
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	7	4.07
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	5	4.07
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	4	4.07
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	13	4.07
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	13	4.07
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	14	4.07
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	13	4.07
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	4	4.07
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	17	4.06
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	17	4.06
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	17	4.06
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	8	4.06
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	3	4.06
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	16	4.06
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	11	4.05
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	15	4.05
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	16	4.05
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	1	4.05
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	2	4.05
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	14	4.05
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	12	4.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	20	4.05
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	19	4.05
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	9	4.05
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	9	4.05
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	6	4.05
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	18	4.04
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	9	4.04
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	19	4.04
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	18	4.04
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	1	4.04
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	2	4.04
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	4	4.04
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	6	4.04
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	19	4.04
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	17	4.04
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	16	4.04
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	8	4.04
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	5	4.04
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	19	4.04
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	9	4.04
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	1	4.03
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	5	4.03
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	9	4.03
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	17	4.03
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	20	4.03
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	7	4.03
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	14	4.03
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	6	4.03
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	20	4.03
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	3	4.03
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	8	4.03
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	6	4.02
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	15	4.02
(1,582)	1:A:42:ALA:H	1:A:66:SER:CB	6	4.02
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	5	4.02
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	18	4.02
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	14	4.02
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	18	4.02
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	18	4.02
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	19	4.02
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	3	4.02
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	16	4.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	11	4.01
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	16	4.01
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	5	4.01
(1,346)	1:A:9:SER:CB	1:A:69:ALA:H	17	4.01
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	17	4.01
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	12	4.01
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	15	4.0
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	14	4.0
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	5	4.0
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	4	4.0
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	7	4.0
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	10	4.0
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	11	4.0
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	15	4.0
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	11	4.0
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	18	3.99
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	15	3.99
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	15	3.99
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	8	3.99
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	19	3.99
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	15	3.99
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	17	3.99
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	12	3.99
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	19	3.98
(1,683)	1:A:80:SER:H	1:A:100:SER:CB	1	3.98
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	2	3.98
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	10	3.98
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	6	3.98
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	8	3.98
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	12	3.98
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	18	3.98
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	7	3.98
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	15	3.98
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	8	3.98
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	10	3.97
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	5	3.97
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	12	3.97
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	11	3.97
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	10	3.97
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	14	3.97
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	20	3.97
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	11	3.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	18	3.97
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	14	3.97
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	4	3.96
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	8	3.96
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	10	3.96
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	6	3.96
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	19	3.96
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	13	3.96
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	3	3.96
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	1	3.96
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	17	3.96
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	9	3.96
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	2	3.95
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	9	3.95
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	20	3.95
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	4	3.95
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	13	3.95
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	12	3.95
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	3	3.95
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	5	3.95
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	4	3.95
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	10	3.95
(1,427)	1:A:23:ALA:H	1:A:38:SER:CB	14	3.95
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	3	3.95
(1,344)	1:A:9:SER:CB	1:A:67:LEU:H	14	3.95
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	12	3.95
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	2	3.94
(1,637)	1:A:66:SER:CB	1:A:78:GLY:H	18	3.94
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	10	3.94
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	17	3.94
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	11	3.94
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	8	3.94
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	17	3.93
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	16	3.93
(1,676)	1:A:74:VAL:H	1:A:100:SER:CB	1	3.93
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	8	3.93
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	18	3.93
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	5	3.93
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	19	3.93
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	9	3.93
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	10	3.93
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	14	3.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	10	3.93
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	6	3.93
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	17	3.93
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	4	3.93
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	5	3.93
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	17	3.93
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	1	3.92
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	6	3.92
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	19	3.92
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	5	3.92
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	11	3.92
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	8	3.92
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	19	3.92
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	17	3.92
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	15	3.92
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	6	3.92
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	18	3.92
(1,480)	1:A:26:THR:CB	1:A:81:VAL:H	5	3.92
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	12	3.92
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	3	3.92
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	13	3.92
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	12	3.92
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	20	3.92
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	9	3.92
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	4	3.92
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	7	3.91
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	14	3.91
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	19	3.91
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	14	3.91
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	19	3.91
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	9	3.91
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	7	3.9
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	16	3.9
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	11	3.9
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	17	3.9
(1,633)	1:A:66:SER:H	1:A:73:SER:CB	13	3.9
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	6	3.9
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	3	3.9
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	18	3.9
(1,397)	1:A:14:VAL:H	1:A:100:SER:CB	18	3.9
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	6	3.89
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	7	3.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	4	3.89
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	10	3.89
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	14	3.89
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	7	3.89
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	3	3.89
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	3	3.88
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	2	3.88
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	13	3.88
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	12	3.88
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	5	3.88
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	4	3.88
(1,433)	1:A:25:GLY:H	1:A:66:SER:CB	17	3.88
(1,353)	1:A:9:SER:CB	1:A:78:GLY:H	14	3.88
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	14	3.88
(1,282)	1:A:5:SER:H	1:A:26:THR:CB	19	3.88
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	11	3.87
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	15	3.87
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	15	3.87
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	14	3.87
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	13	3.87
(1,456)	1:A:26:THR:CB	1:A:57:ALA:H	6	3.87
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	10	3.87
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	1	3.86
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	3	3.86
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	16	3.86
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	16	3.86
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	17	3.86
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	6	3.85
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	11	3.85
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	5	3.85
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	8	3.85
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	6	3.85
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	17	3.85
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	20	3.84
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	14	3.84
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	6	3.84
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	15	3.84
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	10	3.84
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	13	3.84
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	12	3.84
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	15	3.84
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	13	3.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	2	3.84
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	18	3.83
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	19	3.83
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	12	3.83
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	5	3.83
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	20	3.83
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	5	3.83
(1,408)	1:A:17:VAL:H	1:A:38:SER:CB	10	3.83
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	4	3.83
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	10	3.82
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	5	3.82
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	17	3.82
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	2	3.82
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	16	3.82
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	7	3.82
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	6	3.82
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	9	3.81
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	15	3.81
(1,588)	1:A:44:SER:H	1:A:66:SER:CB	19	3.81
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	19	3.81
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	9	3.81
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	5	3.81
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	13	3.81
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	12	3.8
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	10	3.8
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	9	3.8
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	11	3.8
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	19	3.8
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	10	3.8
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	6	3.8
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	10	3.8
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	19	3.79
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	2	3.79
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	1	3.79
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	11	3.79
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	15	3.79
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	6	3.79
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	17	3.79
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	15	3.79
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	7	3.78
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	13	3.78
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	12	3.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	16	3.78
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	14	3.78
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	12	3.78
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	15	3.77
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	12	3.77
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	7	3.77
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	4	3.77
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	16	3.77
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	12	3.77
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	5	3.77
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	18	3.76
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	19	3.76
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	18	3.76
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	18	3.76
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	11	3.76
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	7	3.76
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	10	3.76
(1,681)	1:A:78:GLY:H	1:A:83:SER:CB	17	3.75
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	9	3.75
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	1	3.75
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	4	3.75
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	15	3.75
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	4	3.75
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	6	3.74
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	17	3.74
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	8	3.74
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	3	3.74
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	11	3.74
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	14	3.74
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	20	3.74
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	19	3.74
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	15	3.74
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	8	3.74
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	6	3.73
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	11	3.73
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	18	3.73
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	9	3.73
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	17	3.72
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	11	3.72
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	18	3.72
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	14	3.72
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	11	3.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	12	3.72
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	5	3.72
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	9	3.72
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	8	3.72
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	14	3.71
(1,551)	1:A:38:SER:CB	1:A:76:ALA:H	4	3.71
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	16	3.71
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	7	3.71
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	9	3.71
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	2	3.71
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	11	3.71
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	5	3.71
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	17	3.71
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	1	3.71
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	1	3.71
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	11	3.71
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	2	3.7
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	20	3.7
(1,347)	1:A:9:SER:CB	1:A:70:ILE:H	14	3.7
(1,334)	1:A:9:SER:CB	1:A:58:ASN:H	1	3.7
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	8	3.7
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	4	3.7
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	8	3.7
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	9	3.69
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	13	3.69
(1,356)	1:A:9:SER:CB	1:A:81:VAL:H	16	3.69
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	1	3.69
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	12	3.68
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	8	3.68
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	9	3.68
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	15	3.68
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	18	3.68
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	20	3.68
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	19	3.67
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	17	3.67
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	10	3.67
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	17	3.67
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	19	3.67
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	19	3.67
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	17	3.66
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	19	3.66
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	6	3.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	16	3.66
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	4	3.66
(1,411)	1:A:18:VAL:H	1:A:26:THR:CB	20	3.66
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	10	3.66
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	1	3.66
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	7	3.66
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	11	3.65
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	5	3.65
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	14	3.65
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	9	3.65
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	2	3.65
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	16	3.65
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	3	3.65
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	12	3.65
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	10	3.65
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	2	3.64
(1,635)	1:A:66:SER:CB	1:A:75:GLY:H	4	3.64
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	5	3.64
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	14	3.64
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	3	3.64
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	17	3.64
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	15	3.64
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	10	3.64
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	2	3.64
(1,549)	1:A:38:SER:CB	1:A:74:VAL:H	14	3.63
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	9	3.63
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	6	3.63
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	1	3.63
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	5	3.63
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	19	3.63
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	19	3.63
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	10	3.63
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	9	3.63
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	16	3.62
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	20	3.62
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	3	3.62
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	3	3.62
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	6	3.62
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	14	3.62
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	1	3.62
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	4	3.61
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	20	3.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,465)	1:A:26:THR:CB	1:A:66:SER:H	1	3.61
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	5	3.61
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	12	3.61
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	10	3.61
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	3	3.61
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	12	3.61
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	20	3.61
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	14	3.61
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	4	3.61
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	17	3.61
(1,579)	1:A:41:ILE:H	1:A:66:SER:CB	18	3.6
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	12	3.6
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	8	3.59
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	11	3.59
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	10	3.59
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	11	3.59
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	18	3.59
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	4	3.59
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	2	3.59
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	2	3.58
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	18	3.58
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	9	3.58
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	19	3.58
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	18	3.58
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	5	3.58
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	16	3.58
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	9	3.58
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	18	3.58
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	19	3.58
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	1	3.58
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	1	3.57
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	4	3.57
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	6	3.57
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	17	3.57
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	9	3.56
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	11	3.56
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	15	3.55
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	19	3.55
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	18	3.55
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	18	3.55
(1,574)	1:A:39:VAL:H	1:A:66:SER:CB	14	3.54
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	2	3.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:A:38:SER:CB	1:A:69:ALA:H	12	3.54
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	8	3.54
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	12	3.54
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	11	3.54
(1,454)	1:A:26:THR:CB	1:A:55:ALA:H	19	3.54
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	17	3.54
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	1	3.54
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	11	3.54
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	3	3.53
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	18	3.53
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	14	3.53
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	12	3.53
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	15	3.53
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	19	3.53
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	7	3.53
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	12	3.53
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	20	3.53
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	6	3.53
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	13	3.52
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	15	3.52
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	8	3.52
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	2	3.52
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	6	3.52
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	12	3.52
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	16	3.52
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	20	3.51
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	7	3.51
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	17	3.51
(1,524)	1:A:38:SER:CB	1:A:50:MET:H	9	3.51
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	13	3.51
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	9	3.51
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	1	3.5
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	2	3.5
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	17	3.5
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	8	3.5
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	8	3.5
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	5	3.5
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	2	3.5
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	4	3.5
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	9	3.5
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	17	3.5
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	16	3.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	10	3.49
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	6	3.49
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	7	3.49
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	16	3.49
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	18	3.49
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	18	3.49
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	14	3.49
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	20	3.49
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	19	3.49
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	16	3.49
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	18	3.49
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	19	3.48
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	18	3.48
(1,374)	1:A:9:SER:CB	1:A:104:SER:H	12	3.48
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	13	3.48
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	10	3.48
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	13	3.48
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	19	3.47
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	5	3.47
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	16	3.47
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	14	3.47
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	7	3.47
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	20	3.46
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	4	3.46
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	1	3.46
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	12	3.46
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	17	3.46
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	16	3.46
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	11	3.46
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	9	3.46
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	1	3.46
(1,394)	1:A:14:VAL:H	1:A:26:THR:CB	15	3.46
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	14	3.46
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	17	3.46
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	4	3.46
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	14	3.46
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	7	3.46
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	7	3.46
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	17	3.45
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	8	3.45
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	18	3.45
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	9	3.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	2	3.45
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	2	3.45
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	16	3.44
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	2	3.44
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	11	3.44
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	20	3.44
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	13	3.44
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	5	3.44
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	20	3.44
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	18	3.43
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	1	3.43
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	17	3.43
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	15	3.43
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	12	3.43
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	9	3.42
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	19	3.42
(1,600)	1:A:48:ALA:H	1:A:73:SER:CB	13	3.42
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	14	3.42
(1,510)	1:A:31:LEU:H	1:A:100:SER:CB	2	3.42
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	2	3.41
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	7	3.41
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	8	3.41
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	14	3.41
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	14	3.41
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	11	3.41
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	12	3.4
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	3	3.4
(1,491)	1:A:26:THR:CB	1:A:95:GLY:H	5	3.4
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	4	3.4
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	5	3.4
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	1	3.39
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	5	3.39
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	18	3.39
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	5	3.39
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	2	3.39
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	15	3.39
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	12	3.39
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	5	3.39
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	15	3.39
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	17	3.38
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	18	3.38
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	2	3.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	17	3.38
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	2	3.37
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	15	3.37
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	9	3.37
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	12	3.37
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	19	3.37
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	16	3.37
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	4	3.36
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	19	3.36
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	20	3.36
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	3	3.36
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	5	3.36
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	13	3.35
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	19	3.35
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	12	3.35
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	3	3.35
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	12	3.35
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	5	3.35
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	2	3.35
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	10	3.35
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	20	3.35
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	4	3.34
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	1	3.34
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	13	3.34
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	13	3.34
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	2	3.34
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	18	3.34
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	16	3.34
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	6	3.34
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	12	3.33
(1,685)	1:A:81:VAL:H	1:A:100:SER:CB	2	3.33
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	9	3.33
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	12	3.33
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	12	3.33
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	17	3.33
(1,448)	1:A:26:THR:CB	1:A:48:ALA:H	4	3.33
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	2	3.33
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	10	3.33
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	11	3.33
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	11	3.33
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	15	3.33
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	20	3.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,547)	1:A:38:SER:CB	1:A:72:GLN:H	10	3.32
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	14	3.32
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	12	3.32
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	3	3.32
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	8	3.32
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	1	3.32
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	7	3.32
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	5	3.32
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	4	3.31
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	17	3.31
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	7	3.31
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	19	3.31
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	7	3.31
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	4	3.31
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	19	3.31
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	9	3.3
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	17	3.3
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	15	3.3
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	7	3.3
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	16	3.3
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	2	3.3
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	1	3.3
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	11	3.29
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	20	3.29
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	19	3.29
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	7	3.29
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	10	3.29
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	13	3.29
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	3	3.29
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	3	3.28
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	5	3.28
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	4	3.28
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	3	3.28
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	15	3.27
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	2	3.27
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	13	3.27
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	7	3.27
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	6	3.27
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	7	3.27
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	13	3.27
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	18	3.27
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	3	3.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	9	3.27
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	10	3.27
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	18	3.27
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	2	3.27
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	5	3.26
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	8	3.26
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	9	3.26
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	15	3.26
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	2	3.26
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	18	3.26
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	5	3.25
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	17	3.25
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	19	3.25
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	18	3.25
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	7	3.25
(1,452)	1:A:26:THR:CB	1:A:53:THR:H	1	3.25
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	18	3.25
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	14	3.25
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	13	3.25
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	3	3.25
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	7	3.25
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	11	3.24
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	6	3.24
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	14	3.24
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	14	3.24
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	1	3.24
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	11	3.24
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	2	3.24
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	9	3.24
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	3	3.24
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	19	3.24
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	6	3.23
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	3	3.23
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	12	3.23
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	4	3.23
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	2	3.23
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	1	3.23
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	8	3.23
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	8	3.23
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	5	3.23
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	19	3.23
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	16	3.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	10	3.23
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	5	3.23
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	11	3.23
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	10	3.23
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	4	3.23
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	6	3.23
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	11	3.22
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	6	3.22
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	1	3.22
(1,405)	1:A:16:ALA:H	1:A:83:SER:CB	16	3.22
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	14	3.22
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	8	3.22
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	16	3.22
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	11	3.21
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	6	3.21
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	18	3.21
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	4	3.21
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	10	3.2
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	2	3.2
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	14	3.2
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	11	3.2
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	18	3.2
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	13	3.2
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	8	3.2
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	2	3.2
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	13	3.2
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	10	3.2
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	3	3.2
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	13	3.2
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	4	3.2
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	9	3.2
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	6	3.2
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	3	3.19
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	10	3.19
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	20	3.19
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	1	3.19
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	15	3.19
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	3	3.19
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	3	3.19
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	5	3.19
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	2	3.19
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	3	3.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	5	3.19
(1,585)	1:A:43:ALA:H	1:A:66:SER:CB	4	3.18
(1,525)	1:A:38:SER:CB	1:A:51:MET:H	13	3.18
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	12	3.18
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	6	3.18
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	8	3.18
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	2	3.18
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	10	3.17
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	18	3.17
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	8	3.17
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	5	3.17
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	18	3.16
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	10	3.16
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	10	3.16
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	7	3.16
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	8	3.16
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	15	3.16
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	3	3.16
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	6	3.16
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	15	3.16
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	2	3.16
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	8	3.16
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	3	3.16
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	20	3.16
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	19	3.15
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	2	3.15
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	17	3.15
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	19	3.15
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	7	3.15
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	3	3.15
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	10	3.15
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	7	3.15
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	11	3.15
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	2	3.15
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	19	3.15
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	14	3.15
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	4	3.15
(1,391)	1:A:13:ALA:H	1:A:66:SER:CB	15	3.15
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	20	3.15
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	17	3.15
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	1	3.14
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	4	3.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	8	3.14
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	6	3.14
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	15	3.14
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	10	3.14
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	15	3.14
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	20	3.14
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	17	3.14
(1,390)	1:A:13:ALA:H	1:A:38:SER:CB	10	3.14
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	3	3.14
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	11	3.14
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	17	3.14
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	11	3.14
(1,327)	1:A:9:SER:CB	1:A:51:MET:H	4	3.14
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	7	3.14
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	19	3.14
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	18	3.13
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	16	3.13
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	7	3.13
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	4	3.13
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	3	3.13
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	8	3.13
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	13	3.12
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	2	3.12
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	13	3.12
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	9	3.12
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	13	3.12
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	20	3.11
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	10	3.11
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	17	3.11
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	1	3.11
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	18	3.1
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	1	3.1
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	10	3.1
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	16	3.1
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	1	3.1
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	20	3.1
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	13	3.1
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	18	3.1
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	6	3.1
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	9	3.09
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	15	3.09
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	13	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	19	3.09
(1,674)	1:A:73:SER:CB	1:A:89:PHE:H	10	3.08
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	1	3.08
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	14	3.08
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	11	3.08
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	12	3.08
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	20	3.08
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	2	3.08
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	13	3.08
(1,326)	1:A:9:SER:CB	1:A:50:MET:H	4	3.08
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	4	3.08
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	14	3.08
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	1	3.07
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	6	3.07
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	8	3.07
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	12	3.07
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	11	3.06
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	10	3.06
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	12	3.06
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	1	3.06
(1,455)	1:A:26:THR:CB	1:A:56:ILE:H	10	3.06
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	14	3.06
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	5	3.06
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	18	3.06
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	13	3.06
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	2	3.06
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	8	3.05
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	7	3.05
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	19	3.05
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	15	3.05
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	6	3.05
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	4	3.05
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	19	3.04
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	2	3.04
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	1	3.04
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	8	3.04
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	11	3.03
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	10	3.03
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	19	3.03
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	17	3.03
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	5	3.03
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	9	3.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	4	3.02
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	1	3.02
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	15	3.02
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	6	3.01
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	15	3.01
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	16	3.01
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	2	3.01
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	18	3.01
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	5	3.01
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	9	3.01
(1,438)	1:A:26:THR:CB	1:A:38:SER:H	16	3.01
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	6	3.0
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	14	3.0
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	5	3.0
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	1	3.0
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	4	3.0
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	11	2.99
(1,634)	1:A:66:SER:CB	1:A:74:VAL:H	2	2.99
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	20	2.99
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	13	2.99
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	17	2.99
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	19	2.99
(1,377)	1:A:10:GLY:H	1:A:66:SER:CB	15	2.99
(1,345)	1:A:9:SER:CB	1:A:68:VAL:H	17	2.99
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	12	2.99
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	12	2.98
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	10	2.98
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	9	2.98
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	2	2.98
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	11	2.98
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	8	2.98
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	1	2.98
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	12	2.98
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	1	2.98
(1,392)	1:A:13:ALA:H	1:A:83:SER:CB	16	2.98
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	10	2.98
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	15	2.98
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	15	2.98
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	5	2.98
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	8	2.98
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	4	2.97
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	15	2.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	5	2.97
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	8	2.97
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	9	2.97
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	3	2.97
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	9	2.97
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	7	2.97
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	14	2.96
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	12	2.96
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	7	2.96
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	18	2.96
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	11	2.96
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	13	2.96
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	10	2.96
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	14	2.96
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	7	2.96
(1,387)	1:A:12:ALA:H	1:A:83:SER:CB	16	2.96
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	17	2.96
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	7	2.95
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	6	2.95
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	19	2.95
(1,550)	1:A:38:SER:CB	1:A:75:GLY:H	19	2.95
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	12	2.95
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	7	2.94
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	11	2.94
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	13	2.94
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	12	2.94
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	2	2.94
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	6	2.94
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	1	2.94
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	13	2.94
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	13	2.93
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	3	2.93
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	10	2.93
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	18	2.93
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	14	2.92
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	17	2.92
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	17	2.92
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	16	2.92
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	17	2.92
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	18	2.92
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	18	2.92
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	20	2.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	12	2.92
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	20	2.92
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	8	2.92
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	20	2.92
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	16	2.91
(1,629)	1:A:63:ALA:H	1:A:66:SER:CB	6	2.91
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	9	2.91
(1,447)	1:A:26:THR:CB	1:A:47:ALA:H	4	2.91
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	1	2.91
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	16	2.9
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	2	2.9
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	18	2.9
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	8	2.9
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	8	2.9
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	8	2.89
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	16	2.89
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	13	2.89
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	13	2.89
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	1	2.89
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	1	2.89
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	11	2.89
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	13	2.88
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	19	2.88
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	17	2.88
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	4	2.88
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	9	2.88
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	1	2.88
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	13	2.87
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	17	2.87
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	18	2.87
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	8	2.87
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	4	2.87
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	3	2.87
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	15	2.87
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	19	2.87
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	2	2.86
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	9	2.86
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	17	2.86
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	6	2.86
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	16	2.86
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	15	2.86
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	1	2.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	11	2.86
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	17	2.86
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	19	2.86
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	1	2.86
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	3	2.86
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	13	2.86
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	20	2.86
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	1	2.86
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	13	2.86
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	8	2.86
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	17	2.86
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	3	2.85
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	12	2.85
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	11	2.85
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	15	2.85
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	1	2.85
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	20	2.84
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	9	2.84
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	13	2.84
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	7	2.84
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	13	2.84
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	6	2.84
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	5	2.84
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	10	2.84
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	2	2.84
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	9	2.83
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	10	2.83
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	19	2.83
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	8	2.83
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	17	2.83
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	14	2.83
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	17	2.83
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	20	2.83
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	16	2.83
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	9	2.83
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	7	2.82
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	2	2.82
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	4	2.82
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	8	2.82
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	19	2.82
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	12	2.82
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	1	2.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	9	2.81
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	18	2.81
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	15	2.81
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	18	2.81
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	3	2.81
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	20	2.81
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	14	2.81
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	9	2.81
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	18	2.81
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	15	2.81
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	6	2.8
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	9	2.8
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	10	2.8
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	13	2.8
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	7	2.8
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	18	2.8
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	15	2.8
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	6	2.8
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	6	2.8
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	5	2.8
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	17	2.79
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	12	2.79
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	3	2.79
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	15	2.79
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	5	2.79
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	19	2.79
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	20	2.79
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	9	2.79
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	19	2.79
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	14	2.79
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	9	2.79
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	7	2.79
(1,300)	1:A:9:SER:CB	1:A:25:GLY:H	10	2.79
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	14	2.78
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	17	2.78
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	5	2.78
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	15	2.78
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	16	2.78
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	16	2.78
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	9	2.78
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	7	2.77
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	8	2.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	13	2.77
(1,464)	1:A:26:THR:CB	1:A:65:GLY:H	6	2.77
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	9	2.77
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	5	2.77
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	9	2.77
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	14	2.77
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	20	2.77
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	14	2.77
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	1	2.76
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	10	2.76
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	10	2.76
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	9	2.76
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	6	2.76
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	11	2.76
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	16	2.75
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	9	2.75
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	5	2.75
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	15	2.75
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	12	2.75
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	5	2.75
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	11	2.75
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	14	2.74
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	20	2.74
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	1	2.74
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	15	2.74
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	10	2.74
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	17	2.74
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	19	2.74
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	17	2.74
(1,690)	1:A:86:ILE:H	1:A:100:SER:CB	14	2.73
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	3	2.73
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	7	2.73
(1,294)	1:A:8:ASP:H	1:A:66:SER:CB	11	2.73
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	8	2.72
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	6	2.72
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	15	2.72
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	16	2.72
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	17	2.72
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	6	2.72
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	17	2.72
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	14	2.71
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	9	2.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	11	2.71
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	7	2.71
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	1	2.71
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	14	2.71
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	17	2.71
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	5	2.7
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	9	2.7
(1,594)	1:A:46:ILE:H	1:A:66:SER:CB	4	2.7
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	12	2.7
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	4	2.7
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	4	2.7
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	4	2.7
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	7	2.7
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	2	2.7
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	20	2.69
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	1	2.69
(1,472)	1:A:26:THR:CB	1:A:73:SER:H	10	2.69
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	20	2.69
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	13	2.69
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	19	2.69
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	7	2.69
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	2	2.69
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	16	2.68
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	5	2.68
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	6	2.68
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	16	2.68
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	8	2.68
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	10	2.68
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	16	2.67
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	2	2.67
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	5	2.67
(1,508)	1:A:30:ALA:H	1:A:100:SER:CB	2	2.67
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	13	2.67
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	6	2.67
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	8	2.67
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	1	2.67
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	10	2.67
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	10	2.66
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	15	2.66
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	20	2.66
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	19	2.66
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	18	2.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	2	2.66
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	2	2.66
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	8	2.66
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	5	2.66
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	18	2.66
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	2	2.66
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	17	2.66
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	20	2.66
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	5	2.66
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	3	2.65
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	2	2.65
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	19	2.65
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	4	2.65
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	11	2.65
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	7	2.65
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	2	2.65
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	20	2.65
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	11	2.65
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	2	2.65
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	20	2.64
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	8	2.64
(1,621)	1:A:57:ALA:H	1:A:66:SER:CB	19	2.64
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	8	2.64
(1,486)	1:A:26:THR:CB	1:A:88:GLY:H	6	2.64
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	12	2.64
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	2	2.64
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	19	2.64
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	19	2.64
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	13	2.63
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	20	2.63
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	5	2.63
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	18	2.63
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	14	2.63
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	3	2.63
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	3	2.63
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	19	2.63
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	20	2.63
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	17	2.63
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	4	2.63
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	11	2.63
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	1	2.63
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	13	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	13	2.62
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	17	2.62
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	8	2.62
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	18	2.62
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	15	2.62
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	16	2.62
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	18	2.61
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	12	2.61
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	12	2.61
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	1	2.61
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	19	2.61
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	5	2.61
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	16	2.61
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	7	2.61
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	16	2.61
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	16	2.61
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	3	2.61
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	7	2.6
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	19	2.6
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	9	2.6
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	13	2.6
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	9	2.6
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	17	2.6
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	6	2.6
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	3	2.59
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	12	2.59
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	7	2.59
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	8	2.59
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	4	2.59
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	9	2.59
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	20	2.59
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	5	2.59
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	20	2.59
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	9	2.59
(1,335)	1:A:9:SER:CB	1:A:59:GLY:H	7	2.59
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	14	2.58
(1,589)	1:A:44:SER:H	1:A:73:SER:CB	13	2.58
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	5	2.58
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	14	2.58
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	8	2.58
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	9	2.58
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	19	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	7	2.57
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	16	2.57
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	20	2.57
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	13	2.57
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	7	2.57
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	5	2.57
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	14	2.57
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	6	2.56
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	20	2.56
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	12	2.56
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	10	2.56
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	3	2.56
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	17	2.56
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	10	2.56
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	8	2.56
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	5	2.55
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	4	2.55
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	2	2.55
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	5	2.55
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	2	2.55
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	5	2.55
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	16	2.54
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	20	2.54
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	15	2.54
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	11	2.54
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	2	2.54
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	18	2.54
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	3	2.54
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	15	2.53
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	2	2.53
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	18	2.53
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	6	2.53
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	6	2.53
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	7	2.53
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	4	2.53
(1,414)	1:A:18:VAL:H	1:A:83:SER:CB	16	2.53
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	3	2.53
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	1	2.53
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	1	2.53
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	12	2.52
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	4	2.52
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	17	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	8	2.52
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	2	2.52
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	20	2.52
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	12	2.51
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	13	2.51
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	12	2.51
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	20	2.51
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	1	2.51
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	7	2.51
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	9	2.51
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	8	2.5
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	13	2.5
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	5	2.5
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	16	2.5
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	15	2.5
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	13	2.5
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	9	2.5
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	11	2.5
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	3	2.5
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	4	2.5
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	20	2.49
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	6	2.49
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	18	2.49
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	8	2.49
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	3	2.49
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	19	2.49
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	7	2.49
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	15	2.49
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	15	2.49
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	12	2.49
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	17	2.48
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	14	2.48
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	11	2.48
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	12	2.48
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	6	2.48
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	14	2.48
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	12	2.48
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	6	2.48
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	4	2.47
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	4	2.47
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	5	2.47
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	4	2.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	14	2.47
(1,436)	1:A:26:THR:CB	1:A:36:PHE:H	19	2.47
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	5	2.47
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	19	2.47
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	16	2.47
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	8	2.47
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	1	2.47
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	4	2.47
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	17	2.47
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	10	2.47
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	19	2.46
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	5	2.46
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	12	2.46
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	9	2.46
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	3	2.46
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	16	2.46
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	18	2.46
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	17	2.46
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	19	2.46
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	10	2.45
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	12	2.45
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	14	2.45
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	19	2.45
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	12	2.45
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	18	2.44
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	1	2.44
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	4	2.44
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	11	2.44
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	13	2.44
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	16	2.44
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	18	2.44
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	3	2.44
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	12	2.44
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	5	2.44
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	15	2.44
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	19	2.44
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	13	2.44
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	17	2.44
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	15	2.43
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	6	2.43
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	19	2.43
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	15	2.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	13	2.43
(1,502)	1:A:27:VAL:H	1:A:100:SER:CB	2	2.43
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	9	2.43
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	18	2.43
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	1	2.43
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	20	2.43
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	18	2.43
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	18	2.43
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	14	2.42
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	11	2.42
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	2	2.42
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	4	2.42
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	6	2.42
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	16	2.42
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	16	2.42
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	6	2.42
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	4	2.42
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	18	2.42
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	13	2.42
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	19	2.41
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	17	2.41
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	20	2.41
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	7	2.41
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	3	2.41
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	8	2.41
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	19	2.41
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	6	2.41
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	15	2.41
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	1	2.41
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	5	2.41
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	16	2.41
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	11	2.41
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	6	2.41
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	5	2.41
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	8	2.41
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	9	2.41
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	10	2.4
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	16	2.4
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	9	2.4
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	2	2.4
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	2	2.4
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	18	2.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	19	2.39
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	9	2.39
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	16	2.39
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	3	2.39
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	8	2.39
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	9	2.39
(1,457)	1:A:26:THR:CB	1:A:58:ASN:H	1	2.39
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	2	2.39
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	1	2.39
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	4	2.39
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	19	2.39
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	15	2.39
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	6	2.39
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	7	2.39
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	3	2.39
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	16	2.39
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	17	2.39
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	6	2.39
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	11	2.38
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	11	2.38
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	15	2.38
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	9	2.38
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	6	2.38
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	7	2.38
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	8	2.38
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	20	2.38
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	17	2.38
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	7	2.37
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	20	2.37
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	10	2.37
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	20	2.37
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	13	2.36
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	12	2.36
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	4	2.36
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	6	2.36
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	17	2.36
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	4	2.36
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	15	2.36
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	11	2.36
(1,301)	1:A:9:SER:CB	1:A:26:THR:H	14	2.36
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	3	2.35
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	19	2.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,469)	1:A:26:THR:CB	1:A:69:ALA:H	13	2.35
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	18	2.35
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	12	2.35
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	8	2.35
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	13	2.35
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	19	2.35
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	3	2.35
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	8	2.34
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	8	2.34
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	9	2.34
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	10	2.34
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	9	2.34
(1,610)	1:A:52:SER:H	1:A:73:SER:CB	20	2.34
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	4	2.34
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	2	2.34
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	6	2.34
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	10	2.34
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	16	2.34
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	14	2.34
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	7	2.34
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	10	2.34
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	9	2.34
(1,304)	1:A:9:SER:CB	1:A:29:VAL:H	10	2.34
(1,644)	1:A:66:SER:CB	1:A:86:ILE:H	14	2.33
(1,504)	1:A:28:LEU:H	1:A:100:SER:CB	2	2.33
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	5	2.33
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	5	2.33
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	12	2.33
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	14	2.33
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	13	2.33
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	7	2.33
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	1	2.32
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	11	2.32
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	7	2.32
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	8	2.32
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	2	2.32
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	12	2.32
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	14	2.31
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	12	2.31
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	6	2.31
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	8	2.31
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	19	2.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	15	2.31
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	7	2.31
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	18	2.3
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	3	2.3
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	11	2.3
(1,468)	1:A:26:THR:CB	1:A:68:VAL:H	1	2.3
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	7	2.3
(1,444)	1:A:26:THR:CB	1:A:44:SER:H	4	2.3
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	20	2.3
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	15	2.3
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	18	2.3
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	15	2.29
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	19	2.29
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	15	2.29
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	10	2.29
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	17	2.29
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	19	2.29
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	20	2.29
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	4	2.28
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	3	2.28
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	1	2.28
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	2	2.28
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	16	2.28
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	11	2.28
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	16	2.28
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	12	2.28
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	2	2.28
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	3	2.27
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	17	2.27
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	8	2.27
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	2	2.27
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	11	2.27
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	5	2.27
(1,395)	1:A:14:VAL:H	1:A:38:SER:CB	12	2.27
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	13	2.27
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	16	2.26
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	3	2.26
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	11	2.26
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	9	2.26
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	1	2.26
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	13	2.26
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	19	2.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	17	2.25
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	12	2.25
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	13	2.25
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	19	2.25
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	19	2.25
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	12	2.25
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	7	2.25
(1,404)	1:A:16:ALA:H	1:A:66:SER:CB	15	2.25
(1,308)	1:A:9:SER:CB	1:A:33:ALA:H	14	2.25
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	13	2.25
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	2	2.25
(1,665)	1:A:72:GLN:H	1:A:83:SER:CB	4	2.24
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	10	2.24
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	6	2.24
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	12	2.24
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	20	2.24
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	14	2.24
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	13	2.24
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	19	2.23
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	2	2.23
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	3	2.23
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	20	2.23
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	15	2.23
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	12	2.23
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	8	2.22
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	13	2.22
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	2	2.22
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	14	2.22
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	9	2.22
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	7	2.21
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	9	2.21
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	13	2.21
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	20	2.21
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	13	2.21
(1,399)	1:A:15:ALA:H	1:A:38:SER:CB	12	2.21
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	4	2.21
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	12	2.21
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	7	2.21
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	6	2.21
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	17	2.2
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	18	2.2
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	7	2.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	5	2.2
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	6	2.2
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	8	2.2
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	16	2.2
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	8	2.2
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	11	2.2
(1,378)	1:A:10:GLY:H	1:A:83:SER:CB	16	2.2
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	3	2.2
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	3	2.2
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	18	2.2
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	6	2.2
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	12	2.19
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	14	2.19
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	17	2.19
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	14	2.19
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	14	2.19
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	8	2.19
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	4	2.19
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	11	2.19
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	4	2.18
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	20	2.18
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	10	2.18
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	18	2.18
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	17	2.18
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	12	2.18
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	12	2.18
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	16	2.18
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	6	2.17
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	3	2.17
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	1	2.17
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	19	2.17
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	17	2.17
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	1	2.17
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	11	2.17
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	18	2.17
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	9	2.17
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	6	2.16
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	13	2.16
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	7	2.16
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	4	2.16
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	11	2.16
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	11	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	6	2.15
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	14	2.15
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	6	2.15
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	1	2.15
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	1	2.15
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	2	2.15
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	10	2.15
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	11	2.15
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	18	2.15
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	4	2.15
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	13	2.15
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	14	2.15
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	20	2.15
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	14	2.15
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	6	2.15
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	12	2.15
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	3	2.14
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	19	2.14
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	4	2.14
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	4	2.14
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	2	2.14
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	1	2.14
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	5	2.14
(1,451)	1:A:26:THR:CB	1:A:52:SER:H	20	2.14
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	17	2.14
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	12	2.13
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	7	2.13
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	11	2.13
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	15	2.13
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	17	2.13
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	9	2.13
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	2	2.13
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	10	2.13
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	12	2.13
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	11	2.13
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	14	2.13
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	19	2.13
(1,613)	1:A:53:THR:H	1:A:73:SER:CB	1	2.12
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	1	2.12
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	15	2.12
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	13	2.12
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	5	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	4	2.12
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	7	2.12
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	18	2.12
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	6	2.12
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	6	2.12
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	6	2.12
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	6	2.12
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	18	2.12
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	17	2.11
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	20	2.11
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	20	2.11
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	8	2.11
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	9	2.11
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	13	2.11
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	14	2.11
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	20	2.11
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	1	2.11
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	17	2.11
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	12	2.11
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	17	2.11
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	2	2.11
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	6	2.11
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	7	2.11
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	16	2.1
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	15	2.1
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	13	2.1
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	15	2.1
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	9	2.1
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	20	2.1
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	8	2.1
(1,361)	1:A:9:SER:CB	1:A:87:GLY:H	16	2.1
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	12	2.1
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	5	2.1
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	9	2.09
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	11	2.09
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	12	2.09
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	1	2.09
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	3	2.09
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	7	2.09
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	8	2.09
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	19	2.08
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	16	2.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	2	2.08
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	2	2.08
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	11	2.08
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	12	2.08
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	6	2.08
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	15	2.08
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	7	2.08
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	18	2.08
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	9	2.08
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	20	2.08
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	15	2.08
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	17	2.08
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	5	2.07
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	3	2.07
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	4	2.07
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	8	2.07
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	2	2.07
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	6	2.07
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	13	2.07
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	15	2.06
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	17	2.06
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	20	2.06
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	16	2.06
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	2	2.06
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	14	2.06
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	4	2.06
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	15	2.05
(1,526)	1:A:38:SER:CB	1:A:52:SER:H	8	2.05
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	9	2.05
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	5	2.05
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	12	2.05
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	10	2.05
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	7	2.05
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	18	2.05
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	5	2.04
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	4	2.04
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	14	2.04
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	1	2.04
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	15	2.03
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	4	2.03
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	7	2.03
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	13	2.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	17	2.03
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	12	2.03
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	13	2.03
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	13	2.03
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	20	2.03
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	3	2.03
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	15	2.03
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	14	2.02
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	19	2.02
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	11	2.02
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	8	2.02
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	10	2.02
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	10	2.02
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	9	2.02
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	10	2.02
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	9	2.02
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	3	2.02
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	3	2.02
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	3	2.02
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	8	2.01
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	15	2.01
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	11	2.01
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	17	2.01
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	16	2.01
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	11	2.01
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	5	2.01
(1,691)	1:A:87:GLY:H	1:A:100:SER:CB	15	2.0
(1,663)	1:A:71:LEU:H	1:A:83:SER:CB	4	2.0
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	20	2.0
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	17	2.0
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	7	2.0
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	6	2.0
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	15	2.0
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	20	2.0
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	2	2.0
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	1	2.0
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	15	2.0
(1,363)	1:A:9:SER:CB	1:A:89:PHE:H	18	2.0
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	17	1.99
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	20	1.99
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	16	1.99
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	8	1.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	7	1.99
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	13	1.99
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	10	1.99
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	6	1.99
(1,342)	1:A:9:SER:CB	1:A:66:SER:H	17	1.99
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	14	1.98
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	19	1.98
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	19	1.98
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	14	1.98
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	1	1.98
(1,446)	1:A:26:THR:CB	1:A:46:ILE:H	4	1.98
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	3	1.98
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	18	1.98
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	19	1.98
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	11	1.98
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	7	1.97
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	3	1.97
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	5	1.97
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	12	1.97
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	19	1.97
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	7	1.97
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	7	1.97
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	19	1.97
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	14	1.97
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	17	1.96
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	18	1.96
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	12	1.96
(1,481)	1:A:26:THR:CB	1:A:82:THR:H	5	1.96
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	6	1.96
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	12	1.96
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	7	1.96
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	13	1.96
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	13	1.96
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	19	1.96
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	18	1.95
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	18	1.95
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	16	1.95
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	16	1.95
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	12	1.95
(1,439)	1:A:26:THR:H	1:A:38:SER:CB	15	1.95
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	6	1.95
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	12	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	2	1.95
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	17	1.95
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	5	1.94
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	7	1.94
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	6	1.94
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	2	1.94
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	7	1.94
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	10	1.94
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	14	1.94
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	4	1.94
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	8	1.94
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	3	1.94
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	1	1.94
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	2	1.94
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	13	1.94
(1,330)	1:A:9:SER:CB	1:A:54:ALA:H	19	1.94
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	4	1.93
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	8	1.93
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	7	1.93
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	1	1.93
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	5	1.93
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	6	1.93
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	9	1.93
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	15	1.93
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	9	1.93
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	10	1.93
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	14	1.93
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	6	1.93
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	16	1.93
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	3	1.93
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	11	1.93
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	18	1.92
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	2	1.92
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	3	1.92
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	20	1.92
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	9	1.92
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	19	1.92
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	16	1.92
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	1	1.92
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	9	1.92
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	8	1.92
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	10	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	5	1.91
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	8	1.91
(1,473)	1:A:26:THR:CB	1:A:74:VAL:H	20	1.91
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	3	1.91
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	13	1.91
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	7	1.91
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	9	1.91
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	8	1.91
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	8	1.9
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	16	1.9
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	17	1.9
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	6	1.9
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	14	1.9
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	7	1.9
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	8	1.9
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	14	1.9
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	7	1.9
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	8	1.9
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	2	1.9
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	18	1.89
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	10	1.89
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	18	1.89
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	11	1.89
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	12	1.89
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	6	1.89
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	3	1.89
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	18	1.89
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	5	1.89
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	15	1.89
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	7	1.89
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	19	1.88
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	20	1.88
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	4	1.88
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	11	1.88
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	11	1.88
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	15	1.88
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	15	1.87
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	20	1.87
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	9	1.87
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	17	1.87
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	13	1.87
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	5	1.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	8	1.87
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	13	1.87
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	14	1.87
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	20	1.87
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	10	1.86
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	4	1.86
(1,509)	1:A:31:LEU:H	1:A:66:SER:CB	12	1.86
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	7	1.86
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	3	1.86
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	20	1.86
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	17	1.86
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	20	1.86
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	20	1.86
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	16	1.86
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	6	1.86
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	14	1.85
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	19	1.85
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	16	1.85
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	16	1.85
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	17	1.85
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	19	1.85
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	18	1.85
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	3	1.85
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	10	1.84
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	7	1.84
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	14	1.84
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	14	1.84
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	9	1.84
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	10	1.84
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	15	1.84
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	18	1.84
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	1	1.84
(1,384)	1:A:12:ALA:H	1:A:26:THR:CB	4	1.84
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	3	1.84
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	13	1.84
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	8	1.84
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	5	1.83
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	5	1.83
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	16	1.83
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	8	1.83
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	10	1.83
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	3	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	2	1.82
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	6	1.82
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	6	1.82
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	19	1.82
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	2	1.82
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	17	1.82
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	6	1.82
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	15	1.82
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	14	1.81
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	11	1.81
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	1	1.81
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	19	1.81
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	5	1.81
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	15	1.81
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	3	1.81
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	17	1.81
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	9	1.8
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	12	1.8
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	2	1.8
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	6	1.8
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	13	1.8
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	14	1.8
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	6	1.79
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	14	1.79
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	16	1.79
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	7	1.79
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	19	1.79
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	10	1.79
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	19	1.79
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	17	1.79
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	7	1.79
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	10	1.79
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	20	1.79
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	3	1.78
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	20	1.78
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	16	1.78
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	19	1.78
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	12	1.77
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	8	1.77
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	8	1.77
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	19	1.77
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	13	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	15	1.77
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	4	1.77
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	2	1.77
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	13	1.77
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	6	1.77
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	8	1.76
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	13	1.76
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	13	1.76
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	13	1.76
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	5	1.76
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	11	1.76
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	20	1.76
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	1	1.75
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	9	1.75
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	14	1.75
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	3	1.75
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	8	1.75
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	16	1.75
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	18	1.75
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	18	1.75
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	19	1.75
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	6	1.74
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	4	1.74
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	9	1.74
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	6	1.74
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	1	1.74
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	20	1.74
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	11	1.74
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	1	1.74
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	19	1.74
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	4	1.73
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	17	1.73
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	2	1.73
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	4	1.73
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	3	1.73
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	9	1.73
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	10	1.73
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	17	1.73
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	11	1.73
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	13	1.73
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	15	1.73
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	18	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	12	1.73
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	10	1.73
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	6	1.73
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	20	1.72
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	1	1.72
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	19	1.72
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	4	1.72
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	3	1.72
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	10	1.72
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	20	1.72
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	1	1.72
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	15	1.72
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	4	1.72
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	11	1.71
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	3	1.71
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	1	1.71
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	3	1.71
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	8	1.71
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	11	1.71
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	14	1.7
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	19	1.7
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	5	1.7
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	3	1.7
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	5	1.7
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	7	1.7
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	6	1.7
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	8	1.7
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	14	1.7
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	16	1.69
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	20	1.69
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	20	1.69
(1,428)	1:A:24:VAL:H	1:A:38:SER:CB	14	1.69
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	16	1.69
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	5	1.69
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	14	1.69
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	13	1.69
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	2	1.68
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	1	1.68
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	16	1.68
(1,497)	1:A:26:THR:CB	1:A:103:SER:H	5	1.68
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	16	1.68
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	15	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	16	1.68
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	19	1.68
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	11	1.68
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	10	1.67
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	3	1.67
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	17	1.67
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	10	1.67
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	19	1.67
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	18	1.67
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	5	1.67
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	16	1.67
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	16	1.66
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	8	1.66
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	3	1.66
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	14	1.66
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	5	1.65
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	7	1.65
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	12	1.65
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	6	1.65
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	20	1.65
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	1	1.65
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	6	1.65
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	16	1.65
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	6	1.65
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	5	1.65
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	1	1.64
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	18	1.64
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	20	1.64
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	9	1.64
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	11	1.64
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	13	1.64
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	18	1.63
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	1	1.63
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	18	1.63
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	15	1.63
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	1	1.63
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	4	1.63
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	10	1.63
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	19	1.63
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	12	1.63
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	5	1.63
(1,303)	1:A:9:SER:CB	1:A:28:LEU:H	10	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	14	1.62
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	4	1.62
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	18	1.62
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	2	1.62
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	2	1.62
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	3	1.62
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	13	1.62
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	17	1.62
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	3	1.61
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	1	1.61
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	7	1.61
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	7	1.61
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	2	1.61
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	6	1.61
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	5	1.6
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	11	1.6
(1,461)	1:A:26:THR:CB	1:A:62:VAL:H	7	1.6
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	15	1.6
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	6	1.6
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	18	1.6
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	15	1.6
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	3	1.59
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	20	1.59
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	9	1.59
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	12	1.59
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	15	1.59
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	2	1.59
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	17	1.59
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	5	1.59
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	5	1.59
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	10	1.59
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	10	1.58
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	16	1.58
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	6	1.58
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	7	1.58
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	6	1.58
(1,389)	1:A:13:ALA:H	1:A:26:THR:CB	4	1.58
(1,359)	1:A:9:SER:CB	1:A:84:LYS:H	16	1.58
(1,357)	1:A:9:SER:CB	1:A:82:THR:H	16	1.58
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	14	1.57
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	19	1.57
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	13	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,538)	1:A:38:SER:CB	1:A:64:ALA:H	16	1.56
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	9	1.56
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	8	1.56
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	9	1.56
(1,415)	1:A:18:VAL:H	1:A:100:SER:CB	14	1.56
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	6	1.56
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	2	1.55
(1,580)	1:A:41:ILE:H	1:A:73:SER:CB	4	1.55
(1,577)	1:A:40:GLY:H	1:A:73:SER:CB	14	1.55
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	15	1.55
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	2	1.55
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	15	1.54
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	1	1.54
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	4	1.54
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	2	1.54
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	7	1.54
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	3	1.54
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	16	1.54
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	3	1.53
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	17	1.53
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	2	1.53
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	5	1.53
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	13	1.53
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	8	1.53
(1,434)	1:A:25:GLY:H	1:A:100:SER:CB	2	1.53
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	11	1.53
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	1	1.53
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	3	1.53
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	8	1.53
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	5	1.53
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	19	1.53
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	5	1.53
(1,523)	1:A:38:SER:CB	1:A:49:LYS:H	10	1.52
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	10	1.52
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	13	1.52
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	18	1.52
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	18	1.52
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	17	1.52
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	8	1.51
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	20	1.51
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	20	1.51
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	12	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	20	1.5
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	1	1.5
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	12	1.5
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	3	1.5
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	4	1.5
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	14	1.5
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	3	1.5
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	13	1.5
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	19	1.49
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	12	1.49
(1,531)	1:A:38:SER:CB	1:A:57:ALA:H	18	1.49
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	14	1.49
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	19	1.49
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	6	1.49
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	19	1.49
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	16	1.49
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	20	1.49
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	9	1.49
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	9	1.49
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	13	1.48
(1,515)	1:A:34:MET:H	1:A:66:SER:CB	6	1.48
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	5	1.48
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	14	1.48
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	9	1.48
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	9	1.48
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	5	1.47
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	4	1.47
(1,398)	1:A:15:ALA:H	1:A:26:THR:CB	1	1.47
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	18	1.47
(1,277)	1:A:3:LYS:H	1:A:100:SER:CB	10	1.47
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	13	1.46
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	17	1.46
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	12	1.46
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	10	1.46
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	12	1.46
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	18	1.46
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	11	1.46
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	4	1.46
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	14	1.46
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	13	1.46
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	14	1.45
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	17	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,532)	1:A:38:SER:CB	1:A:58:ASN:H	14	1.45
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	3	1.45
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	18	1.45
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	19	1.45
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	7	1.45
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	12	1.45
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	18	1.45
(1,352)	1:A:9:SER:CB	1:A:76:ALA:H	11	1.45
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	9	1.45
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	2	1.44
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	10	1.44
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	4	1.44
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	11	1.44
(1,358)	1:A:9:SER:CB	1:A:83:SER:H	16	1.44
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	20	1.43
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	5	1.43
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	18	1.43
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	17	1.43
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	11	1.43
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	17	1.43
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	11	1.43
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	15	1.43
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	11	1.42
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	9	1.42
(1,475)	1:A:26:THR:CB	1:A:76:ALA:H	4	1.42
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	19	1.42
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	7	1.42
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	15	1.42
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	5	1.42
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	14	1.41
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	2	1.41
(1,449)	1:A:26:THR:CB	1:A:49:LYS:H	4	1.41
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	18	1.41
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	11	1.41
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	3	1.4
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	6	1.4
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	6	1.39
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	16	1.39
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	3	1.39
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	3	1.39
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	11	1.39
(1,501)	1:A:27:VAL:H	1:A:83:SER:CB	9	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	17	1.38
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	1	1.38
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	17	1.38
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	19	1.38
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	17	1.38
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	20	1.38
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	1	1.38
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	19	1.37
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	9	1.37
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	3	1.37
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	2	1.36
(1,592)	1:A:45:SER:H	1:A:73:SER:CB	13	1.36
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	2	1.36
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	15	1.36
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	3	1.36
(1,671)	1:A:73:SER:CB	1:A:86:ILE:H	10	1.35
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	3	1.35
(1,513)	1:A:33:ALA:H	1:A:66:SER:CB	10	1.35
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	18	1.35
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	10	1.35
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	8	1.35
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	8	1.35
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	13	1.35
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	2	1.35
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	3	1.35
(1,354)	1:A:9:SER:CB	1:A:79:LEU:H	11	1.35
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	11	1.34
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	18	1.34
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	10	1.34
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	13	1.34
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	4	1.34
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	5	1.34
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	14	1.34
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	10	1.34
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	7	1.34
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	9	1.34
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	20	1.34
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	4	1.33
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	7	1.33
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	4	1.33
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	20	1.33
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	13	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	9	1.33
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	19	1.33
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	14	1.33
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	17	1.33
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	5	1.33
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	11	1.32
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	2	1.32
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	12	1.32
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	13	1.32
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	1	1.32
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	13	1.32
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	20	1.32
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	14	1.32
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	16	1.31
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	6	1.31
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	15	1.31
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	18	1.31
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	17	1.31
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	10	1.31
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	18	1.31
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	12	1.3
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	8	1.3
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	11	1.3
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	1	1.29
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	6	1.29
(1,521)	1:A:37:THR:H	1:A:66:SER:CB	9	1.29
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	6	1.29
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	5	1.29
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	6	1.29
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	13	1.29
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	4	1.28
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	16	1.28
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	11	1.28
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	16	1.28
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	7	1.28
(1,467)	1:A:26:THR:CB	1:A:67:LEU:H	1	1.28
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	18	1.28
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	20	1.28
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	6	1.28
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	12	1.28
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	13	1.27
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	7	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	4	1.27
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	18	1.27
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	13	1.27
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	4	1.27
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	5	1.27
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	3	1.26
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	11	1.26
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	19	1.26
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	9	1.26
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	13	1.26
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	15	1.26
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	13	1.25
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	17	1.25
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	16	1.25
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	13	1.25
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	4	1.25
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	16	1.25
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	1	1.25
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	20	1.24
(1,543)	1:A:38:SER:CB	1:A:68:VAL:H	12	1.24
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	11	1.24
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	11	1.24
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	10	1.23
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	12	1.23
(1,580)	1:A:41:ILE:H	1:A:73:SER:CB	10	1.23
(1,474)	1:A:26:THR:CB	1:A:75:GLY:H	19	1.23
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	14	1.23
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	4	1.23
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	14	1.23
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	19	1.23
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	17	1.23
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	11	1.22
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	14	1.22
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	5	1.22
(1,349)	1:A:9:SER:CB	1:A:72:GLN:H	14	1.22
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	4	1.22
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	5	1.21
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	11	1.21
(1,545)	1:A:38:SER:CB	1:A:70:ILE:H	14	1.21
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	1	1.21
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	12	1.21
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	5	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,329)	1:A:9:SER:CB	1:A:53:THR:H	5	1.21
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	9	1.2
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	15	1.2
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	20	1.2
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	3	1.2
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	7	1.2
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	5	1.2
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	8	1.19
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	7	1.19
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	3	1.19
(1,280)	1:A:4:GLU:H	1:A:66:SER:CB	4	1.19
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	7	1.18
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	1	1.18
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	11	1.18
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	2	1.18
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	16	1.17
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	1	1.17
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	6	1.17
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	8	1.17
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	11	1.17
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	15	1.17
(1,331)	1:A:9:SER:CB	1:A:55:ALA:H	4	1.17
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	16	1.16
(1,528)	1:A:38:SER:CB	1:A:54:ALA:H	3	1.16
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	20	1.16
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	5	1.16
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	17	1.16
(1,425)	1:A:21:VAL:H	1:A:83:SER:CB	16	1.16
(1,410)	1:A:17:VAL:H	1:A:100:SER:CB	18	1.16
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	10	1.16
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	12	1.16
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	15	1.16
(1,580)	1:A:41:ILE:H	1:A:73:SER:CB	8	1.15
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	19	1.15
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	16	1.15
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	8	1.15
(1,423)	1:A:21:VAL:H	1:A:38:SER:CB	10	1.15
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	12	1.15
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	1	1.15
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	16	1.15
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	19	1.15
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	17	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,680)	1:A:76:ALA:H	1:A:100:SER:CB	1	1.14
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	3	1.14
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	9	1.14
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	13	1.14
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	8	1.14
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	7	1.14
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	2	1.14
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	5	1.13
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	6	1.13
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	1	1.13
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	13	1.13
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	20	1.13
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	1	1.13
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	13	1.13
(1,343)	1:A:9:SER:H	1:A:66:SER:CB	11	1.13
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	2	1.13
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	6	1.12
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	15	1.12
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	20	1.12
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	10	1.12
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	5	1.12
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	20	1.12
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	5	1.12
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	9	1.12
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	1	1.12
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	13	1.12
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	3	1.12
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	6	1.12
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	13	1.12
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	6	1.12
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	20	1.12
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	17	1.12
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	8	1.11
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	12	1.11
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	7	1.11
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	2	1.11
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	18	1.11
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	19	1.11
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	7	1.11
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	15	1.11
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	14	1.11
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	5	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	7	1.1
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	1	1.1
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	4	1.1
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	16	1.1
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	1	1.1
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	20	1.1
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	10	1.1
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	12	1.1
(1,607)	1:A:51:MET:H	1:A:66:SER:CB	20	1.09
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	18	1.09
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	18	1.09
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	11	1.09
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	15	1.09
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	13	1.09
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	9	1.09
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	16	1.09
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	3	1.09
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	10	1.09
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	15	1.08
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	5	1.08
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	8	1.08
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	11	1.08
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	2	1.08
(1,511)	1:A:32:SER:H	1:A:66:SER:CB	20	1.07
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	1	1.07
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	10	1.07
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	5	1.07
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	1	1.07
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	9	1.07
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	18	1.07
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	13	1.07
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	19	1.07
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	11	1.06
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	19	1.06
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	7	1.06
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	20	1.06
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	17	1.06
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	4	1.06
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	11	1.06
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	12	1.06
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	19	1.05
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	17	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	20	1.05
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	11	1.05
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	11	1.05
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	3	1.05
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	19	1.04
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	10	1.04
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	9	1.04
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	17	1.04
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	2	1.03
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	20	1.03
(1,471)	1:A:26:THR:CB	1:A:72:GLN:H	6	1.03
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	12	1.03
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	6	1.03
(1,689)	1:A:84:LYS:H	1:A:100:SER:CB	1	1.02
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	8	1.02
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	2	1.02
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	19	1.02
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	9	1.02
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	4	1.02
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	12	1.02
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	5	1.02
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	17	1.02
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	1	1.01
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	3	1.01
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	17	1.01
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	6	1.01
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	10	1.01
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	13	1.01
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	1	1.01
(1,355)	1:A:9:SER:CB	1:A:80:SER:H	11	1.01
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	8	1.01
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	10	1.0
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	19	1.0
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	16	1.0
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	2	1.0
(1,477)	1:A:26:THR:CB	1:A:78:GLY:H	4	1.0
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	11	1.0
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	5	1.0
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	19	1.0
(1,417)	1:A:19:GLY:H	1:A:66:SER:CB	3	1.0
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	8	1.0
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	18	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	5	0.99
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	12	0.99
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	16	0.99
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	6	0.99
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	12	0.99
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	17	0.99
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	9	0.98
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	8	0.98
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	7	0.97
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	20	0.97
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	2	0.97
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	8	0.97
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	6	0.97
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	18	0.97
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	17	0.96
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	1	0.96
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	1	0.96
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	9	0.96
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	5	0.95
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	14	0.95
(1,580)	1:A:41:ILE:H	1:A:73:SER:CB	9	0.95
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	10	0.95
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	15	0.95
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	9	0.95
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	14	0.94
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	13	0.94
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	8	0.94
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	12	0.94
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	9	0.93
(1,617)	1:A:55:ALA:H	1:A:66:SER:CB	19	0.93
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	12	0.93
(1,484)	1:A:26:THR:CB	1:A:86:ILE:H	7	0.93
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	16	0.93
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	3	0.93
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	15	0.93
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	5	0.93
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	13	0.93
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	18	0.93
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	18	0.92
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	9	0.92
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	12	0.92
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	4	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	13	0.91
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	15	0.91
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	12	0.91
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	19	0.91
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	3	0.91
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	2	0.9
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	18	0.9
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	15	0.9
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	16	0.9
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	4	0.9
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	16	0.9
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	16	0.9
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	8	0.9
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	19	0.9
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	13	0.9
(1,278)	1:A:4:GLU:H	1:A:26:THR:CB	2	0.9
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	6	0.89
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	9	0.89
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	7	0.89
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	14	0.89
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	14	0.89
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	14	0.89
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	8	0.89
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	5	0.89
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	18	0.89
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	10	0.89
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	17	0.88
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	5	0.88
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	4	0.88
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	14	0.87
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	12	0.87
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	9	0.87
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	3	0.87
(1,463)	1:A:26:THR:CB	1:A:64:ALA:H	9	0.87
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	8	0.87
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	18	0.87
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	5	0.86
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	5	0.86
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	2	0.86
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	8	0.86
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	12	0.86
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	16	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	18	0.86
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	8	0.85
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	7	0.85
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	1	0.84
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	15	0.84
(1,482)	1:A:26:THR:CB	1:A:83:SER:H	8	0.84
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	17	0.84
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	19	0.84
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	1	0.84
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	11	0.84
(1,348)	1:A:9:SER:CB	1:A:71:LEU:H	14	0.84
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	11	0.83
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	12	0.83
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	17	0.83
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	18	0.83
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	19	0.82
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	15	0.81
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	16	0.81
(1,396)	1:A:14:VAL:H	1:A:66:SER:CB	15	0.81
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	1	0.81
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	4	0.81
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	2	0.8
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	2	0.8
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	10	0.8
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	11	0.8
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	17	0.8
(1,287)	1:A:6:GLY:H	1:A:66:SER:CB	17	0.8
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	18	0.79
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	19	0.79
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	14	0.79
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	14	0.79
(1,453)	1:A:26:THR:CB	1:A:54:ALA:H	3	0.79
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	11	0.79
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	15	0.79
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	5	0.79
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	19	0.79
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	1	0.79
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	14	0.78
(1,638)	1:A:66:SER:CB	1:A:79:LEU:H	4	0.78
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	9	0.78
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	2	0.78
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	17	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	18	0.77
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	5	0.77
(1,430)	1:A:24:VAL:H	1:A:83:SER:CB	16	0.77
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	7	0.77
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	16	0.77
(1,641)	1:A:66:SER:CB	1:A:82:THR:H	10	0.76
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	12	0.76
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	9	0.75
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	6	0.75
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	2	0.75
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	9	0.75
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	12	0.75
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	12	0.75
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	11	0.75
(1,375)	1:A:10:GLY:H	1:A:26:THR:CB	15	0.75
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	1	0.75
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	8	0.75
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	6	0.75
(1,450)	1:A:26:THR:CB	1:A:51:MET:H	20	0.74
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	19	0.74
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	9	0.74
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	15	0.74
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	2	0.74
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	3	0.73
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	18	0.73
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	13	0.73
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	14	0.73
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	20	0.73
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	7	0.72
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	4	0.72
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	16	0.71
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	18	0.71
(1,529)	1:A:38:SER:CB	1:A:55:ALA:H	12	0.7
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	2	0.7
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	9	0.7
(1,687)	1:A:83:SER:CB	1:A:95:GLY:H	18	0.69
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	8	0.69
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	16	0.69
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	6	0.69
(1,642)	1:A:66:SER:CB	1:A:83:SER:H	4	0.68
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	17	0.68
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	4	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,498)	1:A:26:THR:CB	1:A:104:SER:H	18	0.68
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	6	0.68
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	13	0.68
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	17	0.68
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	16	0.68
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	9	0.68
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	15	0.67
(1,612)	1:A:53:THR:H	1:A:66:SER:CB	20	0.67
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	7	0.67
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	19	0.67
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	8	0.67
(1,605)	1:A:50:MET:H	1:A:73:SER:CB	13	0.66
(1,460)	1:A:26:THR:CB	1:A:61:GLY:H	7	0.66
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	9	0.66
(1,533)	1:A:38:SER:CB	1:A:59:GLY:H	4	0.65
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	7	0.65
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	17	0.65
(1,336)	1:A:9:SER:CB	1:A:60:GLY:H	3	0.65
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	13	0.64
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	12	0.64
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	12	0.64
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	7	0.64
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	14	0.64
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	20	0.63
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	16	0.63
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	18	0.63
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	6	0.63
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	12	0.63
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	20	0.63
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	7	0.62
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	1	0.62
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	20	0.62
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	6	0.62
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	12	0.62
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	2	0.62
(1,416)	1:A:19:GLY:H	1:A:38:SER:CB	10	0.62
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	3	0.62
(1,274)	1:A:3:LYS:H	1:A:26:THR:CB	2	0.62
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	9	0.61
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	8	0.61
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	20	0.61
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	11	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	3	0.61
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	7	0.61
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	7	0.61
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	6	0.6
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	12	0.6
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	10	0.6
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	3	0.6
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	8	0.6
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	17	0.6
(1,403)	1:A:16:ALA:H	1:A:38:SER:CB	10	0.6
(1,380)	1:A:11:ARG:H	1:A:26:THR:CB	15	0.6
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	5	0.6
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	20	0.59
(1,540)	1:A:38:SER:CB	1:A:66:SER:H	1	0.59
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	14	0.59
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	19	0.59
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	12	0.59
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	2	0.59
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	5	0.59
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	5	0.58
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	16	0.58
(1,422)	1:A:21:VAL:H	1:A:26:THR:CB	14	0.58
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	2	0.57
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	12	0.57
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	11	0.57
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	9	0.57
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	10	0.57
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	12	0.57
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	10	0.57
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	18	0.57
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	3	0.57
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	15	0.57
(1,595)	1:A:46:ILE:H	1:A:73:SER:CB	13	0.56
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	16	0.56
(1,496)	1:A:26:THR:H	1:A:100:SER:CB	2	0.56
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	10	0.56
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	1	0.56
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	20	0.56
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	9	0.55
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	11	0.55
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	12	0.55
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	11	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	10	0.54
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	3	0.54
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	1	0.54
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	14	0.53
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	1	0.53
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	15	0.53
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	1	0.53
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	20	0.53
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	2	0.53
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	18	0.53
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	10	0.52
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	8	0.52
(1,426)	1:A:21:VAL:H	1:A:100:SER:CB	14	0.52
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	1	0.52
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	12	0.52
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	1	0.52
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	5	0.51
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	7	0.51
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	13	0.51
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	19	0.51
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	11	0.51
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	5	0.51
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	3	0.51
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	9	0.51
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	10	0.51
(1,413)	1:A:18:VAL:H	1:A:66:SER:CB	2	0.5
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	13	0.5
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	20	0.5
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	8	0.5
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	3	0.49
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	6	0.49
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	9	0.48
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	4	0.48
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	17	0.48
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	15	0.48
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	16	0.48
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	18	0.48
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	5	0.48
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	2	0.48
(1,420)	1:A:20:GLY:H	1:A:66:SER:CB	14	0.48
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	5	0.48
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	19	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	18	0.47
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	3	0.47
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	7	0.47
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	17	0.47
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	19	0.46
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	14	0.46
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	19	0.46
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	2	0.46
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	12	0.46
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	13	0.46
(1,517)	1:A:35:GLY:H	1:A:66:SER:CB	10	0.45
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	3	0.45
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	4	0.45
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	7	0.45
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	18	0.45
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	1	0.45
(1,276)	1:A:3:LYS:H	1:A:66:SER:CB	4	0.45
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	15	0.44
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	8	0.44
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	3	0.44
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	11	0.44
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	9	0.43
(1,341)	1:A:9:SER:CB	1:A:65:GLY:H	17	0.43
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	20	0.42
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	10	0.42
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	18	0.42
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	17	0.42
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	18	0.42
(1,443)	1:A:26:THR:CB	1:A:42:ALA:H	13	0.42
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	13	0.42
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	12	0.42
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	13	0.42
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	15	0.41
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	15	0.41
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	4	0.41
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	6	0.4
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	4	0.4
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	7	0.4
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	17	0.4
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	3	0.39
(1,535)	1:A:38:SER:CB	1:A:61:GLY:H	14	0.39
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	10	0.39
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	18	0.39
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	19	0.38
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	20	0.38
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	15	0.38
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	15	0.38
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	7	0.37
(1,495)	1:A:26:THR:CB	1:A:100:SER:H	2	0.37
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	8	0.37
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	8	0.37
(1,365)	1:A:9:SER:CB	1:A:92:THR:H	6	0.37
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	8	0.36
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	3	0.36
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	19	0.36
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	19	0.36
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	2	0.35
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	2	0.34
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	3	0.34
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	2	0.34
(1,431)	1:A:24:VAL:H	1:A:100:SER:CB	14	0.34
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	6	0.34
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	7	0.34
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	12	0.33
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	2	0.33
(1,459)	1:A:26:THR:CB	1:A:60:GLY:H	9	0.33
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	6	0.33
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	18	0.33
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	11	0.33
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	15	0.33
(1,270)	1:A:2:GLY:H	1:A:26:THR:CB	2	0.33
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	4	0.32
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	17	0.32
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	16	0.32
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	11	0.32
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	8	0.32
(1,440)	1:A:26:THR:CB	1:A:39:VAL:H	9	0.32
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	8	0.32
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	19	0.32
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	18	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	1	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	2	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	11	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	14	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	15	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	18	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	19	0.31
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	20	0.31
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	8	0.31
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	9	0.31
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	12	0.31
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	14	0.31
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	4	0.31
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	8	0.31
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	16	0.31
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	5	0.31
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	5	0.31
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	12	0.3
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	10	0.3
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	13	0.3
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	17	0.3
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	3	0.3
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	5	0.3
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	10	0.3
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	16	0.3
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	7	0.3
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	16	0.3
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	18	0.3
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	10	0.3
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	10	0.3
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	18	0.3
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	19	0.3
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	20	0.3
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	16	0.3
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	14	0.3
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	6	0.3
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	8	0.3
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	16	0.29
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	7	0.29
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	18	0.29
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	5	0.29
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	2	0.29
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	11	0.29
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	17	0.29
(1,639)	1:A:66:SER:CB	1:A:80:SER:H	4	0.29
(1,527)	1:A:38:SER:CB	1:A:53:THR:H	1	0.29
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	11	0.29
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	6	0.29
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	18	0.29
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	15	0.29
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	1	0.28
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	13	0.28
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	20	0.28
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	1	0.28
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	2	0.28
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	5	0.28
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	7	0.28
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	9	0.28
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	4	0.28
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	10	0.28
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	4	0.28
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	16	0.28
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	4	0.28
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	11	0.28
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	20	0.28
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	3	0.28
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	6	0.28
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	1	0.28
(1,541)	1:A:38:SER:H	1:A:66:SER:CB	4	0.28
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	17	0.28
(1,406)	1:A:16:ALA:H	1:A:100:SER:CB	14	0.28
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	3	0.28
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	16	0.28
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	3	0.27
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	9	0.27
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	17	0.27
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	11	0.27
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	12	0.27
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	15	0.27
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	7	0.27
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	12	0.27
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	6	0.27
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	15	0.27
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	6	0.27
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	12	0.27
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	3	0.27
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	2	0.27
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	8	0.27
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	10	0.27
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	11	0.27
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	9	0.27
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	13	0.27
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	6	0.27
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	8	0.27
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	9	0.27
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	4	0.27
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	13	0.27
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	20	0.27
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	8	0.27
(1,534)	1:A:38:SER:CB	1:A:60:GLY:H	14	0.27
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	20	0.27
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	1	0.27
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	9	0.27
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	2	0.27
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	13	0.27
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	11	0.27
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	12	0.27
(1,281)	1:A:4:GLU:H	1:A:100:SER:CB	13	0.27
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	7	0.26
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	15	0.26
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	9	0.26
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	13	0.26
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	19	0.26
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	9	0.26
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	11	0.26
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	1	0.26
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	9	0.26
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	4	0.26
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	13	0.26
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	17	0.26
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	2	0.26
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	1	0.26
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	14	0.26
(1,608)	1:A:51:MET:H	1:A:73:SER:CB	20	0.26
(1,586)	1:A:43:ALA:H	1:A:73:SER:CB	10	0.26
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	2	0.26
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	11	0.25
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	8	0.25
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	14	0.25
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	17	0.25
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	5	0.25
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	8	0.25
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	15	0.25
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	8	0.25
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	9	0.25
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	13	0.25
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	3	0.25
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	15	0.25
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	8	0.25
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	18	0.25
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	17	0.25
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	13	0.25
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	5	0.25
(3,14)	1:A:23:ALA:O	1:A:27:VAL:N	7	0.25
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	17	0.25
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	3	0.25
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	15	0.25
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	18	0.25
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	2	0.24
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	3	0.24
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	4	0.24
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	7	0.24
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	20	0.24
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	17	0.24
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	3	0.24
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	19	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	2	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	4	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	12	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	13	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	16	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	17	0.24
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	18	0.24
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	2	0.24
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	3	0.24
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	1	0.24
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	12	0.24
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	1	0.24
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	6	0.24
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	5	0.24
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	4	0.24
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	10	0.24
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	20	0.24
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	7	0.24
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	12	0.24
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	4	0.24
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	7	0.24
(1,542)	1:A:38:SER:CB	1:A:67:LEU:H	18	0.24
(1,539)	1:A:38:SER:CB	1:A:65:GLY:H	11	0.24
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	11	0.24
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	9	0.24
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	3	0.24
(1,291)	1:A:7:TRP:H	1:A:66:SER:CB	14	0.24
(1,284)	1:A:5:SER:H	1:A:100:SER:CB	19	0.24
(1,272)	1:A:2:GLY:H	1:A:66:SER:CB	20	0.24
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	5	0.23
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	2	0.23
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	5	0.23
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	6	0.23
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	18	0.23
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	9	0.23
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	14	0.23
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	1	0.23
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	10	0.23
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	14	0.23
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	17	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	1	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	5	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	6	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	7	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	8	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	9	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	10	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	11	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	14	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	15	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	19	0.23
(3,3)	1:A:12:ALA:O	1:A:16:ALA:N	20	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	8	0.23
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	2	0.23
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	9	0.23
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	11	0.23
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	8	0.23
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	7	0.23
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	1	0.23
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	16	0.23
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	17	0.23
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	18	0.23
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	13	0.23
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	1	0.23
(1,519)	1:A:36:PHE:H	1:A:66:SER:CB	9	0.23
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	2	0.23
(1,462)	1:A:26:THR:CB	1:A:63:ALA:H	8	0.23
(1,421)	1:A:20:GLY:H	1:A:100:SER:CB	10	0.23
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	6	0.23
(1,328)	1:A:9:SER:CB	1:A:52:SER:H	5	0.23
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	10	0.22
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	15	0.22
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	1	0.22
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	10	0.22
(3,46)	1:A:79:LEU:O	1:A:83:SER:N	16	0.22
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	3	0.22
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	1	0.22
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	6	0.22
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	14	0.22
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	10	0.22
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	12	0.22
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	4	0.22
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	9	0.22
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	11	0.22
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	12	0.22
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	11	0.22
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	11	0.22
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	5	0.22
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	17	0.22
(1,615)	1:A:54:ALA:H	1:A:66:SER:CB	3	0.22
(1,476)	1:A:26:THR:CB	1:A:77:ALA:H	4	0.22
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	1	0.22
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	13	0.22
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	2	0.21
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	12	0.21
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	20	0.21
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	9	0.21
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	17	0.21
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	20	0.21
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	4	0.21
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	8	0.21
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	11	0.21
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	19	0.21
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	7	0.21
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	10	0.21
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	11	0.21
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	9	0.21
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	13	0.21
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	15	0.21
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	5	0.21
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	15	0.21
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	1	0.21
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	15	0.21
(1,530)	1:A:38:SER:CB	1:A:56:ILE:H	10	0.21
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	4	0.21
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	17	0.21
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	2	0.21
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	18	0.2
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	12	0.2
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	8	0.2
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	6	0.2
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	4	0.2
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	13	0.2
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	4	0.2
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	19	0.2
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	1	0.2
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	5	0.2
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	6	0.2
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	2	0.2
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	3	0.2
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	14	0.2
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	19	0.2
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	7	0.2
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	15	0.2
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	3	0.2
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	2	0.2
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	8	0.2
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	20	0.2
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	3	0.2
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	20	0.2
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	16	0.2
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	1	0.2
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	17	0.19
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	15	0.19
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	17	0.19
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	20	0.19
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	2	0.19
(3,36)	1:A:69:ALA:O	1:A:73:SER:N	8	0.19
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	20	0.19
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	1	0.19
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	16	0.19
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	11	0.19
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	6	0.19
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	8	0.19
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	19	0.19
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	4	0.19
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	9	0.19
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	19	0.19
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	16	0.19
(1,493)	1:A:26:THR:CB	1:A:98:LEU:H	12	0.19
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	1	0.19
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	9	0.19
(1,412)	1:A:18:VAL:H	1:A:38:SER:CB	11	0.19
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	6	0.19
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	10	0.18
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	11	0.18
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	7	0.18
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	13	0.18
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	10	0.18
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	16	0.18
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	12	0.18
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	18	0.18
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	6	0.18
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	13	0.18
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	12	0.18
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	1	0.18
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	9	0.18
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	11	0.18
(1,483)	1:A:26:THR:CB	1:A:84:LYS:H	14	0.18
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	10	0.18
(1,402)	1:A:16:ALA:H	1:A:26:THR:CB	14	0.18
(1,360)	1:A:9:SER:CB	1:A:86:ILE:H	19	0.18
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	14	0.18
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	2	0.18
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	9	0.17
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	16	0.17
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	1	0.17
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	8	0.17
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	11	0.17
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	20	0.17
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	5	0.17
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	7	0.17
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	11	0.17
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	16	0.17
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	18	0.17
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	16	0.17
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	19	0.17
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	3	0.17
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	20	0.17
(3,25)	1:A:40:GLY:O	1:A:44:SER:N	19	0.17
(3,23)	1:A:39:VAL:O	1:A:43:ALA:N	7	0.17
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	19	0.17
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	8	0.17
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	2	0.17
(3,15)	1:A:24:VAL:O	1:A:28:LEU:N	14	0.17
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	14	0.17
(1,643)	1:A:66:SER:CB	1:A:84:LYS:H	15	0.17
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	4	0.17
(1,435)	1:A:26:THR:CB	1:A:35:GLY:H	19	0.17
(1,424)	1:A:21:VAL:H	1:A:66:SER:CB	14	0.17
(1,419)	1:A:20:GLY:H	1:A:38:SER:CB	14	0.17
(1,362)	1:A:9:SER:CB	1:A:88:GLY:H	2	0.17
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	19	0.17
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	5	0.16
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	6	0.16
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	8	0.16
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	15	0.16
(3,7)	1:A:14:VAL:O	1:A:18:VAL:N	3	0.16
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	18	0.16
(3,42)	1:A:75:GLY:O	1:A:79:LEU:N	14	0.16
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	2	0.16
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	10	0.16
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	9	0.16
(3,25)	1:A:40:GLY:O	1:A:44:SER:N	14	0.16
(3,20)	1:A:29:VAL:O	1:A:33:ALA:N	15	0.16
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	16	0.16
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	16	0.16
(1,688)	1:A:83:SER:CB	1:A:96:ALA:H	3	0.16
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	6	0.16
(1,458)	1:A:26:THR:CB	1:A:59:GLY:H	4	0.16
(1,409)	1:A:17:VAL:H	1:A:66:SER:CB	6	0.16
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	20	0.16
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	5	0.16
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	4	0.15
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	14	0.15
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	3	0.15
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	5	0.15
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	16	0.15
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	20	0.15
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	3	0.15
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	14	0.15
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	7	0.15
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	16	0.15
(3,26)	1:A:41:ILE:O	1:A:44:SER:N	10	0.15
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	5	0.15
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	18	0.15
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	9	0.15
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	12	0.15
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	12	0.15
(1,492)	1:A:26:THR:CB	1:A:96:ALA:H	12	0.15
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	5	0.15
(1,485)	1:A:26:THR:CB	1:A:87:GLY:H	13	0.15
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	7	0.14
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	9	0.14
(3,57)	1:A:13:ALA:O	1:A:16:ALA:H	3	0.14
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	2	0.14
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	18	0.14
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	6	0.14
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	14	0.14
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	16	0.14
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	14	0.14
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	18	0.14
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	1	0.14
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	17	0.14
(3,25)	1:A:40:GLY:O	1:A:44:SER:N	5	0.14
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	9	0.14
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	17	0.14
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	7	0.14
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	14	0.14
(1,692)	1:A:100:SER:CB	1:A:104:SER:H	11	0.14
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	13	0.14
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	12	0.14
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	17	0.14
(1,421)	1:A:20:GLY:H	1:A:100:SER:CB	1	0.14
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	16	0.14
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	10	0.14
(1,289)	1:A:7:TRP:H	1:A:26:THR:CB	4	0.14
(3,93)	1:A:39:VAL:O	1:A:42:ALA:H	15	0.13
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	1	0.13
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	11	0.13
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	6	0.13
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	7	0.13
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	8	0.13
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	10	0.13
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	14	0.13
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	4	0.13
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	13	0.13
(3,49)	1:A:82:THR:O	1:A:86:ILE:N	19	0.13
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	18	0.13
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	12	0.13
(3,29)	1:A:43:ALA:O	1:A:47:ALA:N	15	0.13
(3,20)	1:A:29:VAL:O	1:A:33:ALA:N	3	0.13
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	6	0.13
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	15	0.13
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	10	0.13
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	11	0.13
(1,619)	1:A:56:ILE:H	1:A:66:SER:CB	11	0.13
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	15	0.13
(1,432)	1:A:25:GLY:H	1:A:38:SER:CB	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:A:9:SER:CB	1:A:93:ALA:H	2	0.13
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	16	0.13
(3,93)	1:A:39:VAL:O	1:A:42:ALA:H	20	0.12
(3,9)	1:A:20:GLY:O	1:A:24:VAL:N	19	0.12
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	1	0.12
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	5	0.12
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	12	0.12
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	4	0.12
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	16	0.12
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	17	0.12
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	19	0.12
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	20	0.12
(3,35)	1:A:68:VAL:O	1:A:72:GLN:N	13	0.12
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	12	0.12
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	18	0.12
(3,27)	1:A:41:ILE:O	1:A:45:SER:N	5	0.12
(3,25)	1:A:40:GLY:O	1:A:44:SER:N	18	0.12
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	1	0.12
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	18	0.12
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	20	0.12
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	8	0.12
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	17	0.12
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	19	0.12
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	18	0.12
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	12	0.12
(1,580)	1:A:41:ILE:H	1:A:73:SER:CB	11	0.12
(1,489)	1:A:26:THR:CB	1:A:92:THR:H	13	0.12
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	8	0.12
(1,418)	1:A:19:GLY:H	1:A:100:SER:CB	14	0.12
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	12	0.12
(1,364)	1:A:9:SER:CB	1:A:90:ALA:H	19	0.12
(1,307)	1:A:9:SER:CB	1:A:32:SER:H	20	0.12
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	5	0.12
(1,273)	1:A:2:GLY:H	1:A:100:SER:CB	7	0.12
(3,93)	1:A:39:VAL:O	1:A:42:ALA:H	16	0.11
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	7	0.11
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	8	0.11
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	17	0.11
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	19	0.11
(3,8)	1:A:15:ALA:O	1:A:18:VAL:N	20	0.11
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	1	0.11
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	11	0.11
(3,5)	1:A:13:ALA:O	1:A:17:VAL:N	13	0.11
(3,48)	1:A:81:VAL:O	1:A:85:VAL:N	6	0.11
(3,47)	1:A:80:SER:O	1:A:84:LYS:N	11	0.11
(3,44)	1:A:77:ALA:O	1:A:81:VAL:N	18	0.11
(3,39)	1:A:72:GLN:O	1:A:76:ALA:N	3	0.11
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	2	0.11
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	4	0.11
(3,30)	1:A:44:SER:O	1:A:48:ALA:N	8	0.11
(3,28)	1:A:42:ALA:O	1:A:46:ILE:N	17	0.11
(3,25)	1:A:40:GLY:O	1:A:44:SER:N	16	0.11
(3,21)	1:A:38:SER:O	1:A:42:ALA:N	8	0.11
(3,20)	1:A:29:VAL:O	1:A:33:ALA:N	5	0.11
(3,19)	1:A:28:LEU:O	1:A:32:SER:N	4	0.11
(3,18)	1:A:27:VAL:O	1:A:31:LEU:N	19	0.11
(3,17)	1:A:26:THR:O	1:A:30:ALA:N	3	0.11
(3,16)	1:A:25:GLY:O	1:A:29:VAL:N	7	0.11
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	8	0.11
(3,13)	1:A:22:VAL:O	1:A:26:THR:N	17	0.11
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	3	0.11
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	5	0.11
(3,11)	1:A:21:VAL:O	1:A:25:GLY:N	10	0.11
(1,640)	1:A:66:SER:CB	1:A:81:VAL:H	2	0.11
(1,583)	1:A:42:ALA:H	1:A:73:SER:CB	20	0.11
(1,487)	1:A:26:THR:CB	1:A:89:PHE:H	12	0.11
(1,445)	1:A:26:THR:CB	1:A:45:SER:H	9	0.11
(1,337)	1:A:9:SER:CB	1:A:61:GLY:H	17	0.11
(1,299)	1:A:9:SER:CB	1:A:24:VAL:H	4	0.11
(1,285)	1:A:6:GLY:H	1:A:26:THR:CB	19	0.11

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found