Full wwPDB NMR Structure Validation Report (i)

Jun 4, 2023 – 06:40 AM EDT

PDB ID	:	2LON
BMRB ID	:	18218
Title	:	Backbone structure of human membrane protein HIGD1B
Authors	:	Klammt, C.; 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:

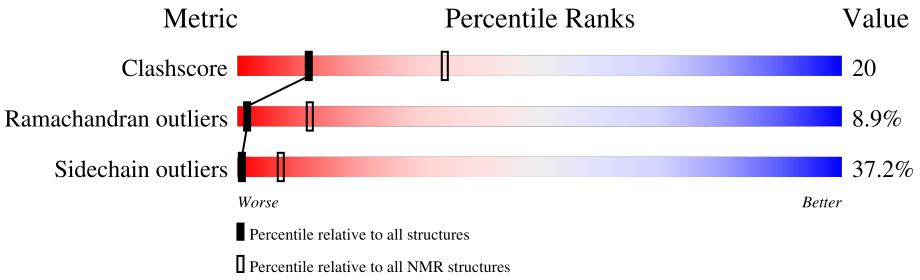
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal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

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 77%.

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	99	18% 39% · 39%

2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 7 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:16-A:50, A:65-A:89 (60)	1.00	7

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 2 clusters and 2 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 1562 atoms, of which 791 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called HIG1 domain family member 1B.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	99	1562	484	791	143	136	8	0

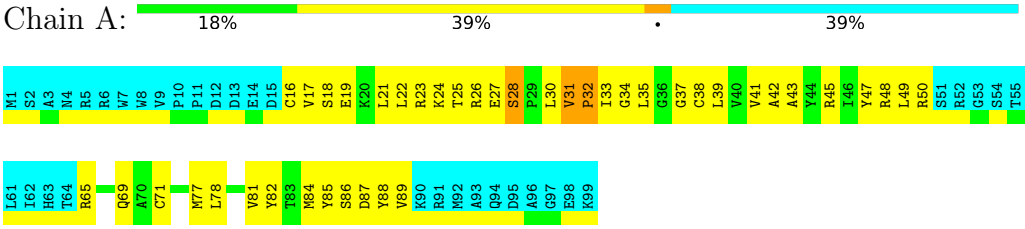
4 Residue-property plots

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: HIG1 domain family member 1B

Chain A:



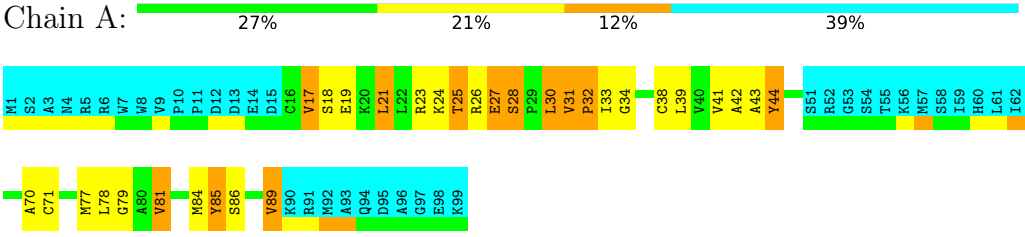
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: HIG1 domain family member 1B

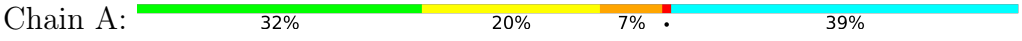
Chain A:



4.2.2 Score per residue for model 2

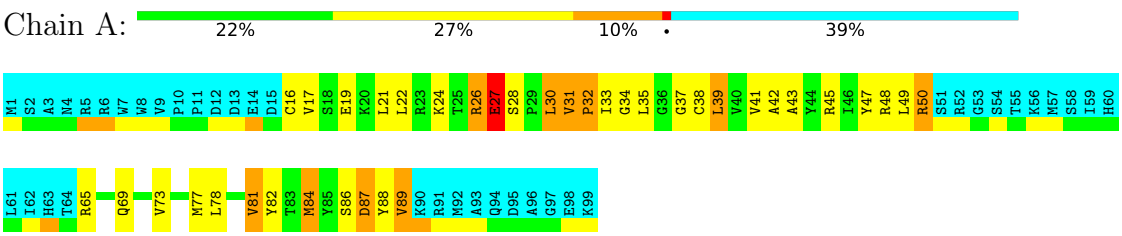
• Molecule 1: HIG1 domain family member 1B

Chain A:



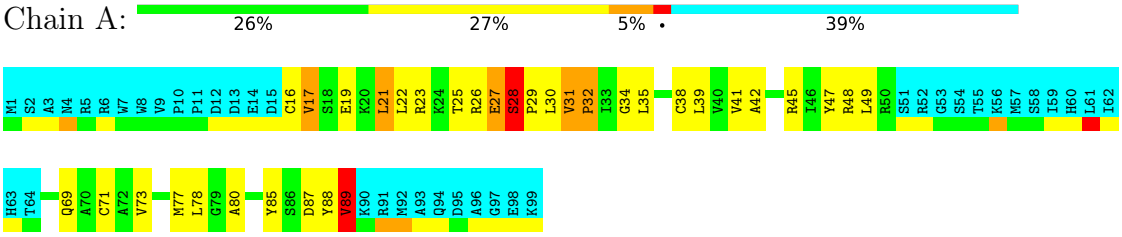
4.2.3 Score per residue for model 3

• Molecule 1: HIG1 domain family member 1B



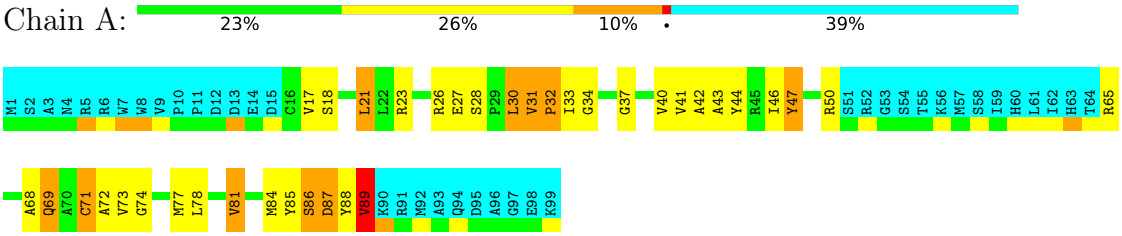
4.2.4 Score per residue for model 4

• Molecule 1: HIG1 domain family member 1B



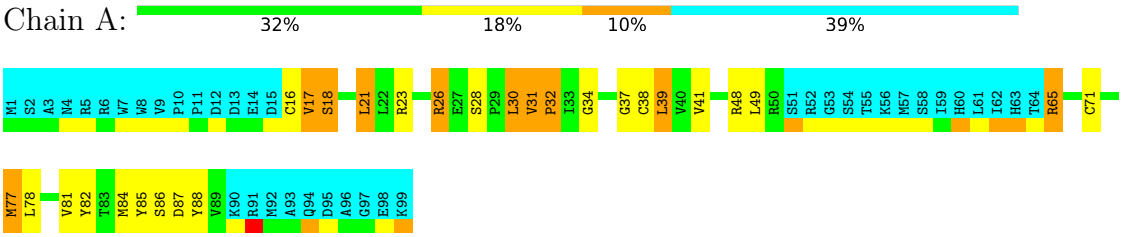
4.2.5 Score per residue for model 5

• Molecule 1: HIG1 domain family member 1B



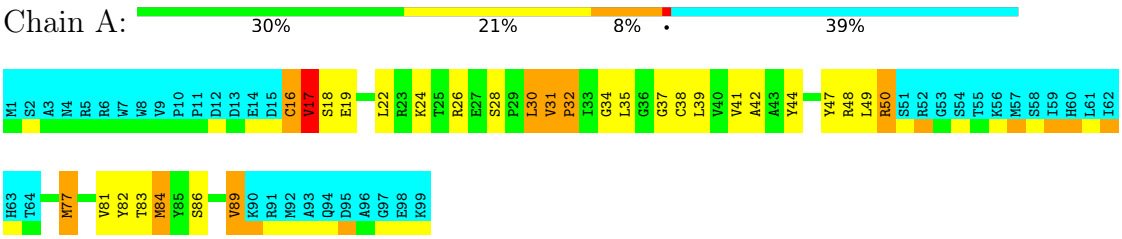
4.2.6 Score per residue for model 6

• Molecule 1: HIG1 domain family member 1B



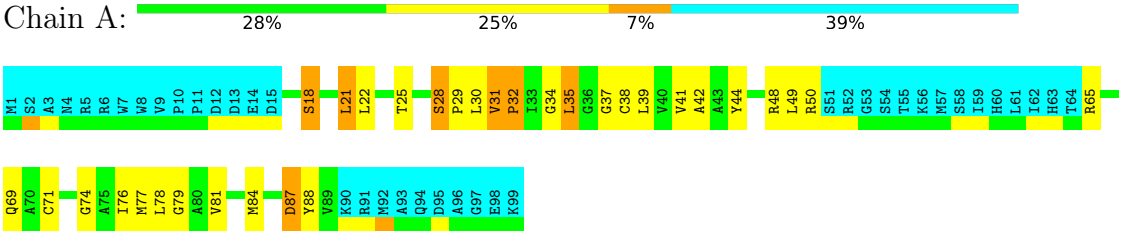
4.2.7 Score per residue for model 7 (medoid)

• Molecule 1: HIG1 domain family member 1B



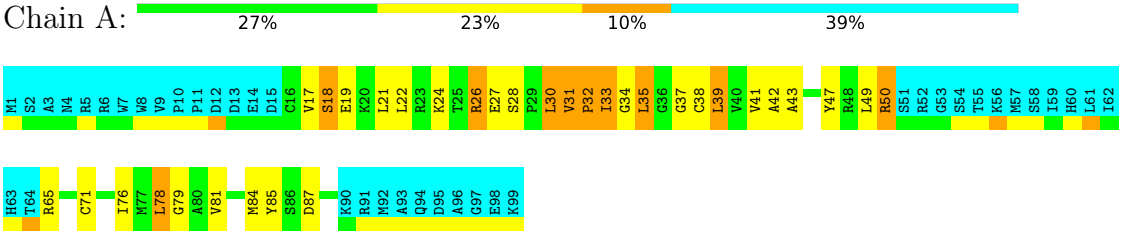
4.2.8 Score per residue for model 8

• Molecule 1: HIG1 domain family member 1B



4.2.9 Score per residue for model 9

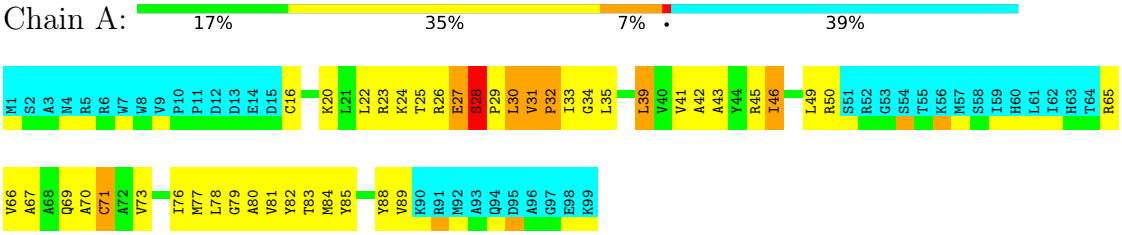
• Molecule 1: HIG1 domain family member 1B



4.2.10 Score per residue for model 10

• Molecule 1: HIG1 domain family member 1B

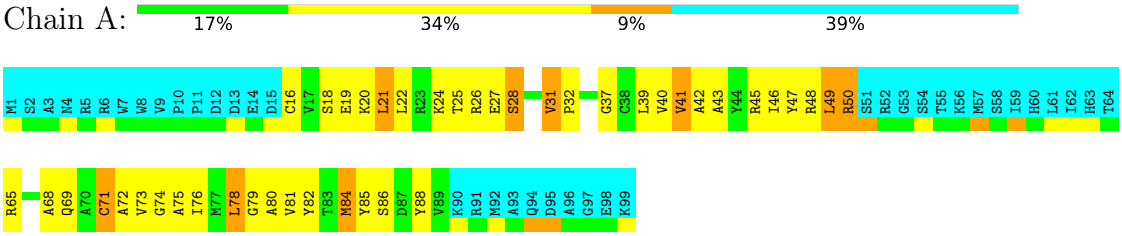
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: HIG1 domain family member 1B

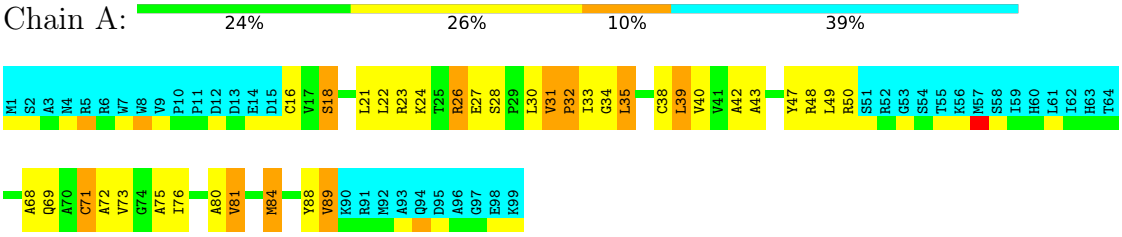
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: HIG1 domain family member 1B

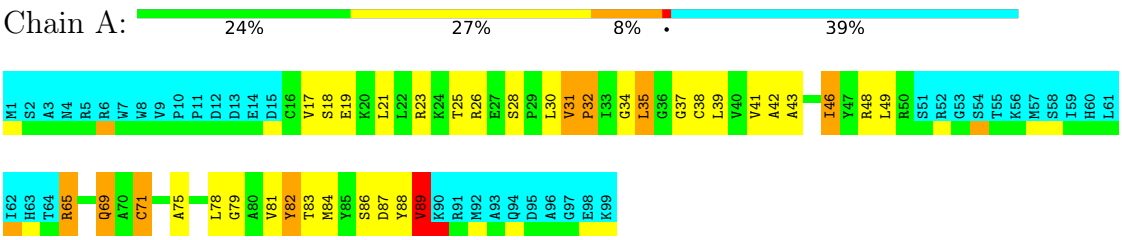
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: HIG1 domain family member 1B

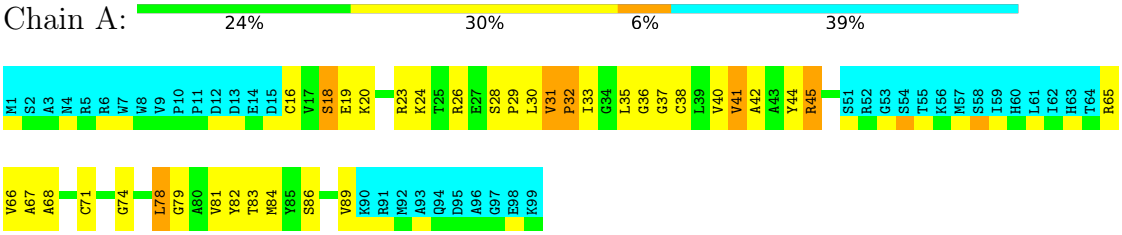
Chain A:



4.2.14 Score per residue for model 14

• Molecule 1: HIG1 domain family member 1B

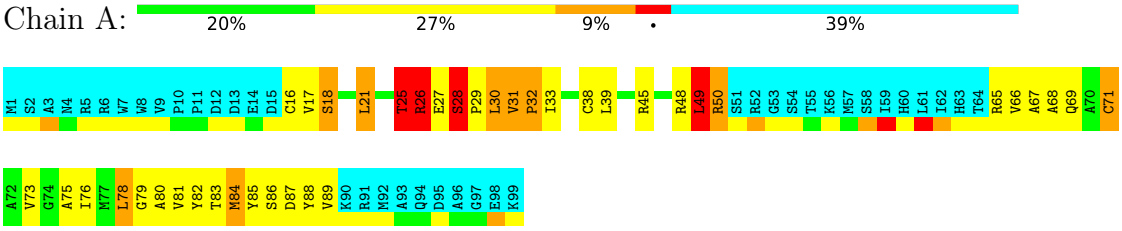
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: HIG1 domain family member 1B

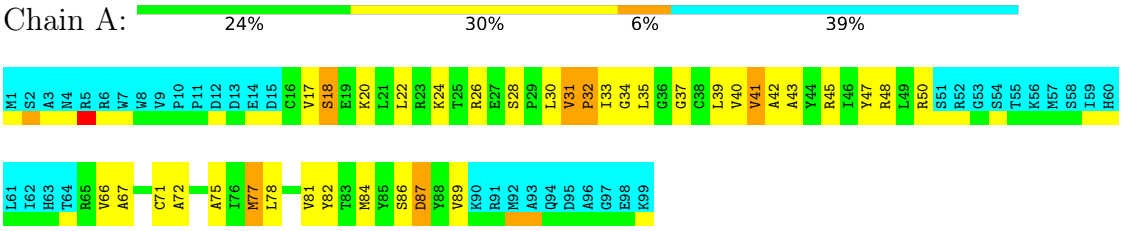
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: HIG1 domain family member 1B

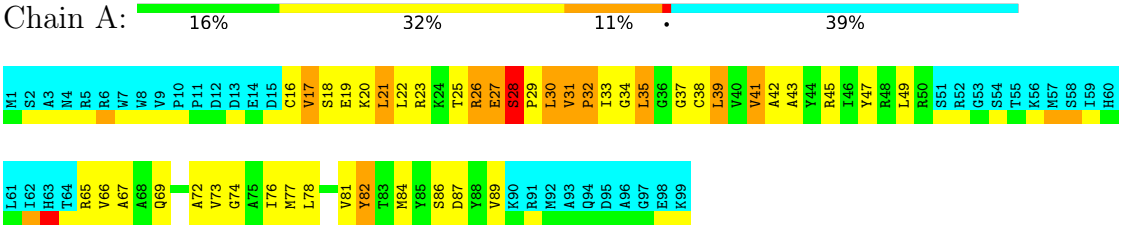
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: HIG1 domain family member 1B

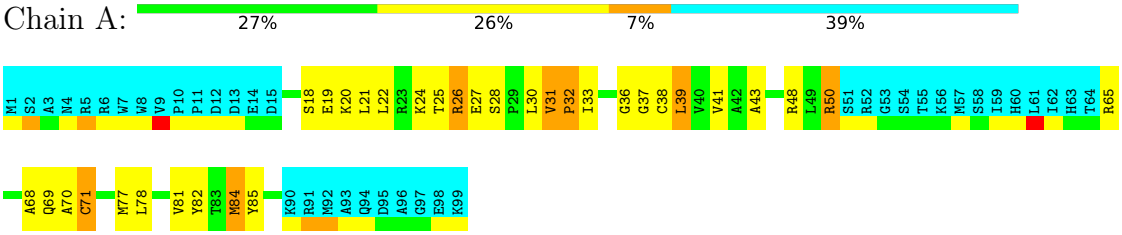
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: HIG1 domain family member 1B

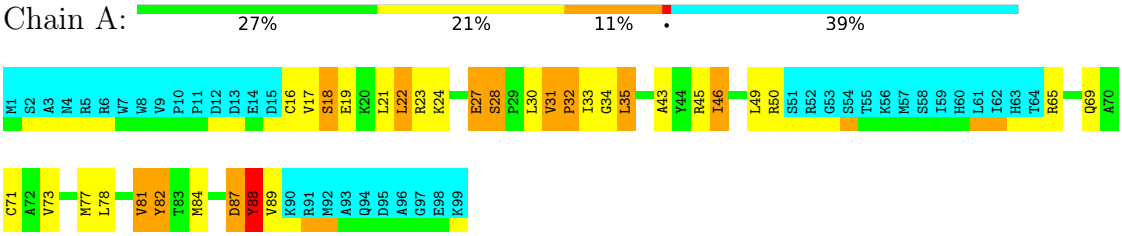
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: HIG1 domain family member 1B

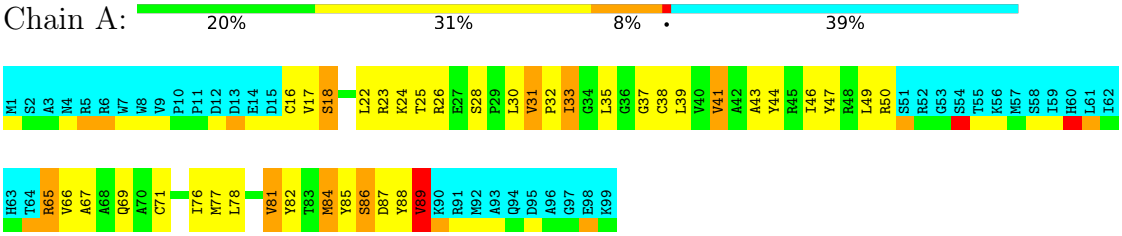
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: HIG1 domain family member 1B

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	1003
Number of shifts mapped to atoms	1003
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	77%

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	455	486	486	18±4
All	All	9100	9720	9720	369

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 20.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:GLY:O	1:A:41:VAL:HG12	0.88	1.67	9	3
1:A:21:LEU:O	1:A:25:THR:HG23	0.85	1.72	1	1
1:A:30:LEU:HD22	1:A:30:LEU:O	0.81	1.75	10	2
1:A:21:LEU:O	1:A:25:THR:HG22	0.80	1.77	4	3
1:A:30:LEU:HD13	1:A:31:VAL:N	0.79	1.93	10	2
1:A:37:GLY:O	1:A:41:VAL:HG22	0.79	1.77	13	1
1:A:46:ILE:HD13	1:A:46:ILE:O	0.76	1.81	10	1
1:A:40:VAL:O	1:A:43:ALA:HB3	0.76	1.80	11	3
1:A:30:LEU:C	1:A:30:LEU:HD22	0.75	2.01	7	2
1:A:86:SER:O	1:A:89:VAL:HG12	0.72	1.84	20	4
1:A:37:GLY:O	1:A:41:VAL:HG23	0.72	1.84	18	10
1:A:86:SER:O	1:A:89:VAL:HG22	0.71	1.86	5	4
1:A:69:GLN:O	1:A:73:VAL:HG22	0.70	1.87	5	6
1:A:78:LEU:C	1:A:78:LEU:HD13	0.67	2.10	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:LEU:O	1:A:43:ALA:HB2	0.65	1.92	3	9
1:A:17:VAL:HG23	1:A:21:LEU:HB3	0.65	1.69	6	1
1:A:79:GLY:O	1:A:83:THR:HG23	0.64	1.92	15	3
1:A:77:MET:O	1:A:81:VAL:HG23	0.62	1.95	19	5
1:A:86:SER:O	1:A:89:VAL:HG23	0.61	1.95	3	2
1:A:30:LEU:HD13	1:A:84:MET:HG2	0.60	1.72	3	2
1:A:86:SER:O	1:A:89:VAL:HG13	0.60	1.96	7	2
1:A:78:LEU:O	1:A:82:TYR:CD1	0.59	2.55	2	1
1:A:78:LEU:O	1:A:78:LEU:HD13	0.59	1.98	10	1
1:A:17:VAL:HG12	1:A:18:SER:N	0.59	2.13	1	2
1:A:72:ALA:O	1:A:75:ALA:HB3	0.58	1.99	11	2
1:A:43:ALA:O	1:A:46:ILE:HG22	0.58	1.98	19	2
1:A:31:VAL:N	1:A:32:PRO:CD	0.57	2.68	16	20
1:A:88:TYR:CD1	1:A:88:TYR:C	0.55	2.80	2	1
1:A:17:VAL:HG13	1:A:21:LEU:HB3	0.55	1.76	4	3
1:A:30:LEU:HD22	1:A:30:LEU:C	0.55	2.21	10	1
1:A:30:LEU:HD13	1:A:30:LEU:C	0.55	2.22	10	1
1:A:78:LEU:O	1:A:81:VAL:HG12	0.54	2.02	14	2
1:A:16:CYS:O	1:A:21:LEU:HD13	0.54	2.03	11	1
1:A:19:GLU:HA	1:A:22:LEU:HD12	0.54	1.79	11	1
1:A:17:VAL:HG13	1:A:21:LEU:HD22	0.51	1.82	19	1
1:A:28:SER:CB	1:A:29:PRO:CD	0.51	2.88	8	4
1:A:30:LEU:HA	1:A:33:ILE:HG22	0.51	1.82	20	2
1:A:39:LEU:O	1:A:43:ALA:CB	0.51	2.59	10	6
1:A:37:GLY:O	1:A:41:VAL:CG2	0.51	2.59	16	6
1:A:38:CYS:O	1:A:42:ALA:CB	0.50	2.60	3	6
1:A:46:ILE:HD13	1:A:46:ILE:C	0.50	2.26	10	1
1:A:78:LEU:C	1:A:78:LEU:CD1	0.50	2.80	18	1
1:A:79:GLY:O	1:A:82:TYR:CB	0.50	2.60	10	2
1:A:82:TYR:O	1:A:86:SER:CB	0.50	2.60	14	5
1:A:74:GLY:O	1:A:78:LEU:CB	0.50	2.60	5	5
1:A:65:ARG:O	1:A:69:GLN:CB	0.49	2.60	17	1
1:A:77:MET:O	1:A:81:VAL:CG2	0.49	2.60	7	2
1:A:34:GLY:O	1:A:38:CYS:CB	0.49	2.60	4	1
1:A:41:VAL:HG13	1:A:42:ALA:N	0.49	2.22	10	3
1:A:73:VAL:O	1:A:77:MET:CG	0.49	2.60	10	1
1:A:71:CYS:O	1:A:75:ALA:HB2	0.49	2.08	13	1
1:A:30:LEU:O	1:A:34:GLY:N	0.49	2.46	19	14
1:A:65:ARG:HB3	1:A:68:ALA:HB3	0.49	1.83	18	1
1:A:86:SER:O	1:A:89:VAL:CG2	0.49	2.60	3	1
1:A:18:SER:O	1:A:22:LEU:HD12	0.48	2.09	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:85:TYR:O	1:A:88:TYR:CB	0.48	2.62	15	6
1:A:66:VAL:HG23	1:A:67:ALA:N	0.48	2.24	17	2
1:A:40:VAL:HG13	1:A:41:VAL:N	0.48	2.24	11	2
1:A:74:GLY:O	1:A:78:LEU:HD12	0.48	2.09	2	1
1:A:40:VAL:HG23	1:A:41:VAL:N	0.48	2.23	14	1
1:A:66:VAL:HG13	1:A:67:ALA:N	0.48	2.24	14	1
1:A:78:LEU:O	1:A:81:VAL:CG1	0.47	2.62	10	1
1:A:78:LEU:O	1:A:82:TYR:CB	0.47	2.61	18	1
1:A:26:ARG:O	1:A:26:ARG:CG	0.47	2.61	6	1
1:A:75:ALA:O	1:A:78:LEU:CB	0.47	2.63	15	1
1:A:41:VAL:HG12	1:A:42:ALA:N	0.47	2.25	17	3
1:A:78:LEU:O	1:A:81:VAL:CG2	0.47	2.63	13	1
1:A:41:VAL:CG1	1:A:42:ALA:N	0.47	2.78	4	3
1:A:40:VAL:O	1:A:43:ALA:CB	0.46	2.60	11	2
1:A:17:VAL:HG23	1:A:18:SER:N	0.46	2.25	15	2
1:A:31:VAL:N	1:A:32:PRO:HD2	0.46	2.26	16	20
1:A:30:LEU:C	1:A:30:LEU:CD2	0.46	2.76	7	2
1:A:44:TYR:CD1	1:A:44:TYR:O	0.46	2.69	1	1
1:A:16:CYS:O	1:A:17:VAL:HG13	0.45	2.10	7	1
1:A:32:PRO:O	1:A:35:LEU:N	0.45	2.50	12	7
1:A:81:VAL:O	1:A:84:MET:N	0.45	2.50	7	9
1:A:32:PRO:O	1:A:33:ILE:C	0.45	2.54	12	11
1:A:49:LEU:HD13	1:A:49:LEU:C	0.45	2.32	2	1
1:A:40:VAL:O	1:A:43:ALA:N	0.45	2.50	12	1
1:A:66:VAL:CG1	1:A:67:ALA:N	0.45	2.80	20	2
1:A:86:SER:C	1:A:88:TYR:N	0.45	2.70	20	3
1:A:68:ALA:O	1:A:71:CYS:CB	0.45	2.65	11	3
1:A:17:VAL:O	1:A:21:LEU:CB	0.45	2.65	19	2
1:A:22:LEU:C	1:A:22:LEU:CD1	0.45	2.84	19	1
1:A:84:MET:O	1:A:87:ASP:N	0.44	2.50	19	2
1:A:25:THR:HG23	1:A:26:ARG:H	0.44	1.71	15	1
1:A:32:PRO:O	1:A:34:GLY:N	0.44	2.50	19	1
1:A:31:VAL:O	1:A:35:LEU:CB	0.44	2.65	3	1
1:A:69:GLN:O	1:A:72:ALA:N	0.44	2.50	12	3
1:A:78:LEU:O	1:A:81:VAL:HG22	0.44	2.13	13	1
1:A:32:PRO:C	1:A:34:GLY:N	0.44	2.70	19	2
1:A:25:THR:OG1	1:A:26:ARG:N	0.44	2.50	15	1
1:A:77:MET:O	1:A:80:ALA:N	0.44	2.50	2	2
1:A:46:ILE:O	1:A:46:ILE:HD13	0.44	2.13	13	1
1:A:69:GLN:C	1:A:71:CYS:N	0.44	2.70	10	5
1:A:44:TYR:CG	1:A:70:ALA:HB1	0.43	2.48	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:46:ILE:HG22	1:A:47:TYR:N	0.43	2.27	5	1
1:A:87:ASP:O	1:A:89:VAL:N	0.43	2.51	19	4
1:A:16:CYS:O	1:A:17:VAL:CG2	0.43	2.66	4	1
1:A:43:ALA:O	1:A:46:ILE:CG2	0.43	2.66	19	1
1:A:81:VAL:HG23	1:A:82:TYR:N	0.43	2.29	17	1
1:A:17:VAL:HG13	1:A:18:SER:H	0.43	1.73	6	1
1:A:28:SER:CB	1:A:29:PRO:HD2	0.43	2.43	4	2
1:A:42:ALA:O	1:A:45:ARG:N	0.43	2.51	14	1
1:A:79:GLY:O	1:A:82:TYR:N	0.43	2.52	10	1
1:A:29:PRO:O	1:A:33:ILE:HD12	0.42	2.14	14	2
1:A:27:GLU:O	1:A:28:SER:CB	0.42	2.67	10	1
1:A:46:ILE:O	1:A:49:LEU:N	0.42	2.53	20	1
1:A:78:LEU:HD13	1:A:78:LEU:C	0.42	2.34	10	1
1:A:87:ASP:O	1:A:88:TYR:C	0.42	2.57	5	6
1:A:69:GLN:O	1:A:71:CYS:N	0.42	2.53	10	2
1:A:17:VAL:HG13	1:A:18:SER:N	0.42	2.29	6	1
1:A:18:SER:C	1:A:22:LEU:HD12	0.42	2.35	9	1
1:A:80:ALA:O	1:A:83:THR:HG22	0.42	2.15	10	1
1:A:73:VAL:HG23	1:A:74:GLY:N	0.42	2.29	17	1
1:A:69:GLN:O	1:A:73:VAL:HG12	0.42	2.14	19	1
1:A:72:ALA:O	1:A:75:ALA:N	0.42	2.52	12	1
1:A:38:CYS:O	1:A:42:ALA:HB3	0.42	2.14	3	1
1:A:40:VAL:CG2	1:A:41:VAL:N	0.41	2.83	14	1
1:A:44:TYR:CD2	1:A:70:ALA:HB1	0.41	2.50	1	1
1:A:87:ASP:C	1:A:89:VAL:N	0.41	2.74	19	1
1:A:84:MET:O	1:A:85:TYR:C	0.41	2.59	6	3
1:A:30:LEU:HD13	1:A:84:MET:CG	0.41	2.41	3	1
1:A:71:CYS:O	1:A:75:ALA:CB	0.41	2.69	13	1
1:A:65:ARG:O	1:A:68:ALA:HB3	0.41	2.16	14	2
1:A:41:VAL:O	1:A:44:TYR:N	0.41	2.53	5	1
1:A:41:VAL:O	1:A:42:ALA:C	0.41	2.59	5	3
1:A:27:GLU:O	1:A:28:SER:C	0.41	2.60	1	1
1:A:86:SER:O	1:A:88:TYR:N	0.41	2.54	20	2
1:A:88:TYR:O	1:A:89:VAL:O	0.41	2.39	5	1
1:A:38:CYS:O	1:A:39:LEU:C	0.41	2.59	18	3
1:A:78:LEU:O	1:A:81:VAL:N	0.41	2.54	9	1
1:A:80:ALA:O	1:A:81:VAL:C	0.41	2.60	12	2
1:A:88:TYR:O	1:A:89:VAL:C	0.41	2.59	12	2
1:A:36:GLY:C	1:A:38:CYS:N	0.41	2.74	14	2
1:A:66:VAL:O	1:A:67:ALA:C	0.41	2.60	15	1
1:A:78:LEU:O	1:A:79:GLY:C	0.40	2.60	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:77:MET:O	1:A:78:LEU:C	0.40	2.59	10	4
1:A:69:GLN:O	1:A:70:ALA:C	0.40	2.60	10	2
1:A:73:VAL:C	1:A:75:ALA:N	0.40	2.74	11	1
1:A:37:GLY:O	1:A:41:VAL:CG1	0.40	2.69	3	1
1:A:81:VAL:O	1:A:82:TYR:C	0.40	2.59	15	3
1:A:25:THR:O	1:A:26:ARG:C	0.40	2.60	15	1
1:A:86:SER:O	1:A:87:ASP:C	0.40	2.60	16	1
1:A:27:GLU:O	1:A:28:SER:O	0.40	2.40	17	1
1:A:27:GLU:CG	1:A:28:SER:N	0.40	2.85	11	1
1:A:79:GLY:O	1:A:80:ALA:C	0.40	2.60	11	1
1:A:46:ILE:O	1:A:47:TYR:C	0.40	2.60	5	1
1:A:26:ARG:O	1:A:27:GLU:O	0.40	2.40	3	1
1:A:34:GLY:O	1:A:38:CYS:SG	0.40	2.80	9	1
1:A:80:ALA:O	1:A:83:THR:OG1	0.40	2.40	15	1
1:A:85:TYR:O	1:A:86:SER:C	0.40	2.60	15	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	60/99 (61%)	33±5 (55±8%)	22±5 (36±8%)	5±2 (9±3%)	1	12
All	All	1200/1980 (61%)	662 (55%)	431 (36%)	107 (9%)	1	12

All 16 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	32	PRO	18
1	A	26	ARG	12
1	A	89	VAL	10
1	A	18	SER	9
1	A	27	GLU	8
1	A	25	THR	7
1	A	81	VAL	7

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Mol	Chain	Res	Type	Models (Total)
1	A	17	VAL	6
1	A	50	ARG	5
1	A	28	SER	5
1	A	76	ILE	5
1	A	41	VAL	5
1	A	16	CYS	4
1	A	65	ARG	3
1	A	49	LEU	2
1	A	88	TYR	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	47/81 (58%)	30±3 (63±6%)	18±3 (37±6%)	1 7
All	All	940/1620 (58%)	590 (63%)	350 (37%)	1 7

All 41 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	28	SER	20
1	A	31	VAL	20
1	A	71	CYS	16
1	A	49	LEU	14
1	A	50	ARG	14
1	A	84	MET	14
1	A	39	LEU	13
1	A	21	LEU	12
1	A	24	LYS	12
1	A	30	LEU	12
1	A	23	ARG	11
1	A	22	LEU	11
1	A	48	ARG	11
1	A	26	ARG	11
1	A	35	LEU	11
1	A	19	GLU	10

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Mol	Chain	Res	Type	Models (Total)
1	A	45	ARG	10
1	A	78	LEU	10
1	A	47	TYR	10
1	A	18	SER	10
1	A	65	ARG	9
1	A	27	GLU	8
1	A	16	CYS	7
1	A	20	LYS	7
1	A	87	ASP	7
1	A	77	MET	6
1	A	82	TYR	6
1	A	38	CYS	5
1	A	44	TYR	5
1	A	86	SER	5
1	A	69	GLN	5
1	A	89	VAL	5
1	A	85	TYR	4
1	A	76	ILE	4
1	A	46	ILE	4
1	A	88	TYR	3
1	A	17	VAL	2
1	A	33	ILE	2
1	A	25	THR	2
1	A	83	THR	1
1	A	66	VAL	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates (i)

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 77% for the well-defined parts and 73% 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	1003
Number of shifts mapped to atoms	1003
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	98	2.94 ± 0.07	Should be checked
$^{13}C_{\beta}$	91	3.75 ± 0.05	Should be checked
$^{13}C'$	85	2.61 ± 0.10	Should be applied
^{15}N	94	-0.31 ± 0.28	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 77%, i.e. 639 atoms were assigned a chemical shift out of a possible 833. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	292/301 (97%)	122/123 (99%)	112/120 (93%)	58/58 (100%)
Sidechain	337/487 (69%)	229/324 (71%)	108/142 (76%)	0/21 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	10/45 (22%)	10/20 (50%)	0/25 (0%)	0/0 (—%)
Overall	639/833 (77%)	361/467 (77%)	220/287 (77%)	58/79 (73%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 73%, i.e. 1003 atoms were assigned a chemical shift out of a possible 1367. 0 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	473/494 (96%)	196/201 (98%)	183/198 (92%)	94/95 (99%)
Sidechain	518/790 (66%)	350/518 (68%)	168/234 (72%)	0/38 (0%)
Aromatic	12/83 (14%)	12/40 (30%)	0/39 (0%)	0/4 (0%)
Overall	1003/1367 (73%)	558/759 (74%)	351/471 (75%)	94/137 (69%)

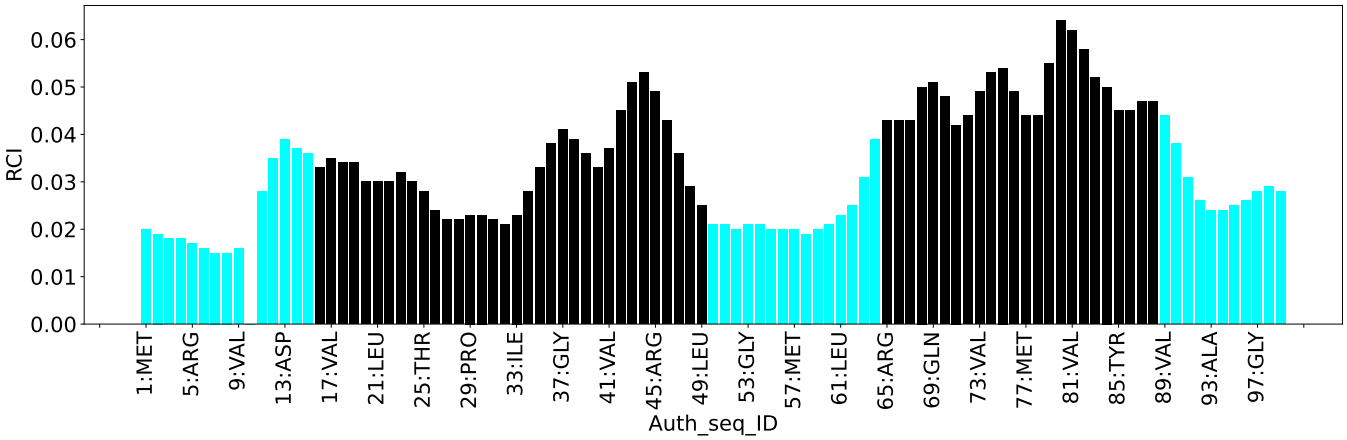
7.1.4 Statistically unusual chemical shifts (i)

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	860
Intra-residue (|i-j|=0)	2
Sequential (|i-j|=1)	10
Medium range (|i-j|>1 and |i-j|<5)	31
Long range (|i-j|≥5)	649
Inter-chain	0
Hydrogen bond restraints	168
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	8.7
Number of long range restraints per residue[1]	6.6

[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)	11.8	0.2
0.2-0.5 (Medium)	20.9	0.5
>0.5 (Large)	389.6	29.01

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)

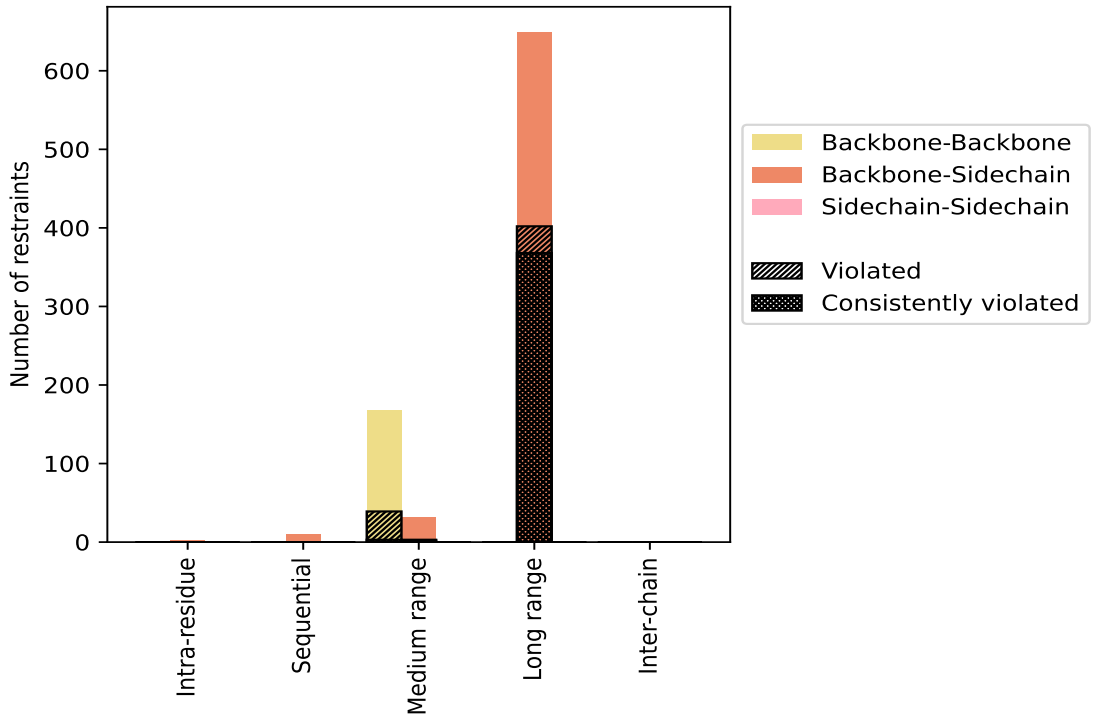
9.1 Summary of distance violations (i)

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)	10	1.2	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	10	1.2	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
Medium range (|i-j|>1 & |i-j|<5)	31	3.6	3	9.7	0.3	2	6.5	0.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	31	3.6	3	9.7	0.3	2	6.5	0.2
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (|i-j|≥5)	649	75.5	402	61.9	46.7	368	56.7	42.8
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	649	75.5	402	61.9	46.7	368	56.7	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	168	19.5	39	23.2	4.5	3	1.8	0.3
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	860	100.0	444	51.6	51.6	373	43.4	43.4
Backbone-Backbone	168	19.5	39	23.2	4.5	3	1.8	0.3
Backbone-Sidechain	692	80.5	405	58.5	47.1	370	53.5	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	27	395	0	422	6.48	23.56	4.68	5.9
2	0	0	25	399	0	424	6.23	25.25	4.6	5.58
3	0	0	24	400	0	424	6.37	21.88	4.63	5.72
4	0	0	27	400	0	427	6.12	23.15	4.56	5.54
5	0	0	27	396	0	423	6.04	24.67	4.47	5.34
6	0	0	26	393	0	419	6.25	26.9	4.9	5.47
7	0	0	27	397	0	424	6.07	20.84	4.44	5.56
8	0	0	23	395	0	418	6.18	28.86	4.97	5.37
9	0	0	28	396	0	424	5.91	26.87	4.49	5.3
10	0	0	29	394	0	423	5.71	22.29	4.25	5.2
11	0	0	27	396	0	423	6.14	23.43	4.55	5.63

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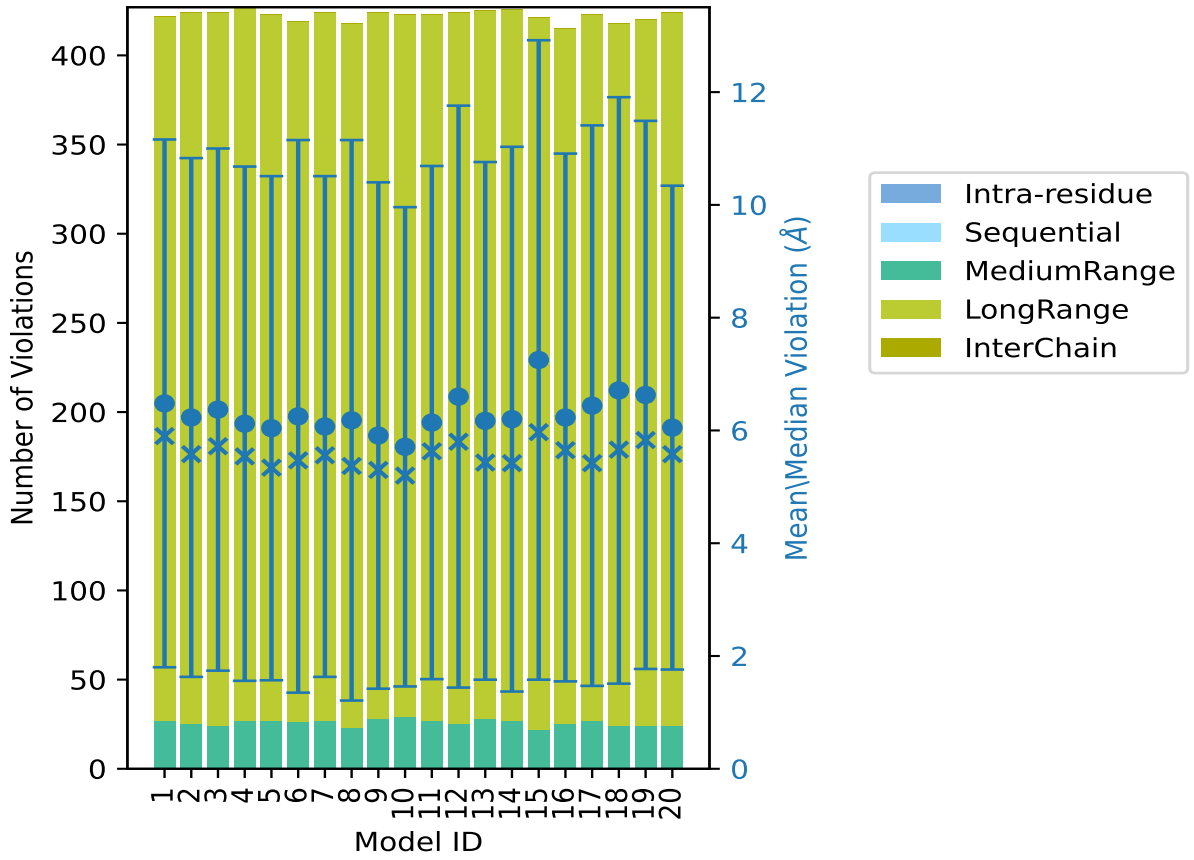
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	0	0	25	399	0	424	6.6	28.65	5.16	5.8
13	0	0	28	397	0	425	6.17	23.08	4.59	5.43
14	0	0	27	399	0	426	6.2	23.86	4.83	5.42
15	0	0	22	399	0	421	7.25	29.01	5.67	5.97
16	0	0	25	390	0	415	6.23	23.45	4.68	5.65
17	0	0	27	396	0	423	6.44	24.84	4.97	5.42
18	0	0	24	394	0	418	6.71	27.81	5.2	5.66
19	0	0	24	396	0	420	6.63	24.3	4.86	5.83
20	0	0	24	400	0	424	6.05	19.62	4.29	5.58

[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

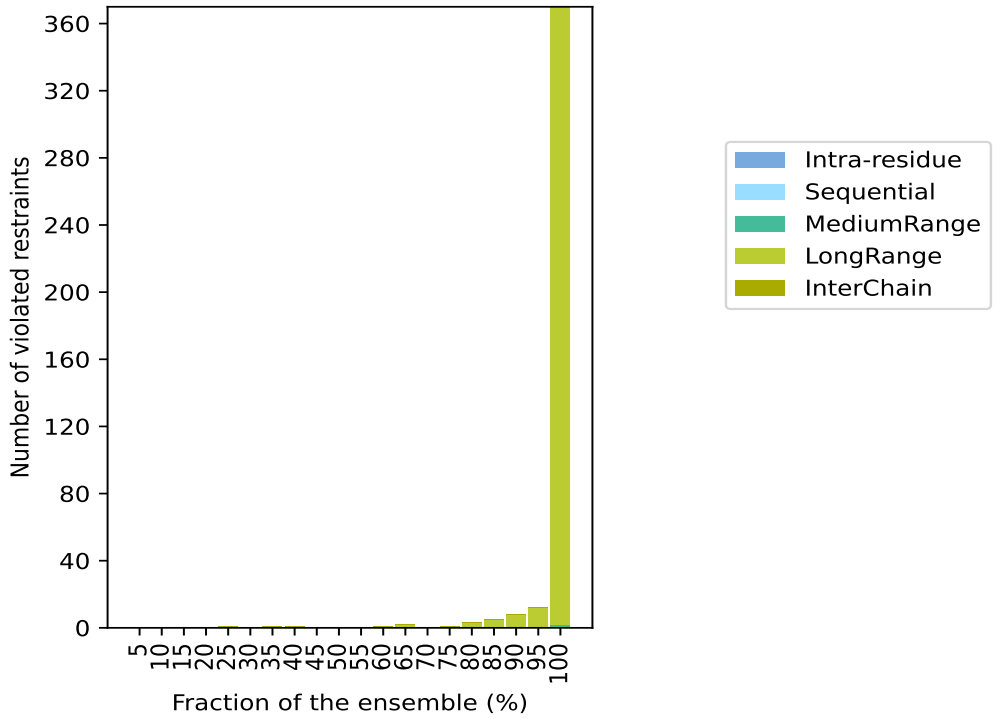
9.3 Distance violation statistics for the ensemble (i)

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, 287(IR:2, SQ:10, MR:28, LR:247, 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	0	0	0	1	5.0
0	0	0	0	0	0	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	1	0	0	1	7	35.0
0	0	0	1	0	1	8	40.0
0	0	0	0	0	0	9	45.0
0	0	0	0	0	0	10	50.0
0	0	0	0	0	0	11	55.0
0	0	0	1	0	1	12	60.0
0	0	0	2	0	2	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	1	0	1	15	75.0
0	0	0	3	0	3	16	80.0
0	0	0	5	0	5	17	85.0
0	0	0	8	0	8	18	90.0
0	0	0	12	0	12	19	95.0
0	0	2	368	0	370	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

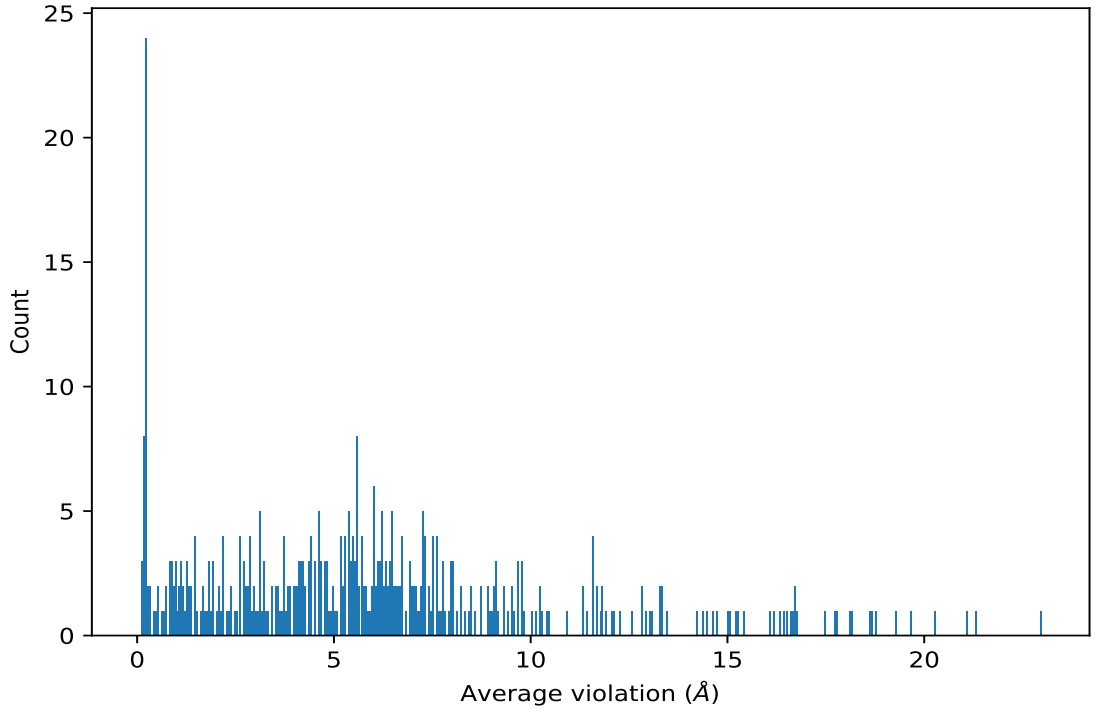
9.3.1 Bar graph : Distance violation statistics for the ensemble



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)
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	20	22.97	4.2	23.26
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	20	21.31	3.07	21.79
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	20	21.09	3.53	21.64
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	20	20.27	2.55	20.39
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	20	19.66	3.29	20.15
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	20	19.29	2.8	20.26
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	20	18.79	1.16	18.75
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	20	18.68	1.82	18.75
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	20	18.6	3.14	19.48
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	20	18.18	1.76	18.04
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	20	18.14	2.07	17.86
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	20	17.77	2.05	17.65
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	20	17.74	1.27	17.45
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	20	17.47	2.17	17.3
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	20	16.75	1.77	16.38
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	20	16.71	1.23	16.81

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	20	16.7	5.02	16.93
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	20	16.69	1.03	16.4
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	20	16.62	4.45	16.54
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	20	16.5	2.17	16.58
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	20	16.43	1.9	16.33
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	20	16.31	4.43	16.37
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	20	16.16	1.66	15.8
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	20	16.07	3.94	15.58
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	20	15.43	1.5	15.09
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	20	15.28	1.19	15.1
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	20	15.24	3.8	15.4
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	20	15.08	1.95	15.08
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	20	15.01	5.88	14.16
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	20	14.72	2.59	14.71
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	20	14.61	1.22	14.41
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	20	14.48	5.58	14.55
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	20	14.39	3.21	13.93
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	20	14.24	0.98	14.33
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	20	13.47	1.96	13.71
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	20	13.32	1.32	13.32
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	20	13.31	2.59	13.51
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	20	13.27	4.15	12.68
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	20	13.26	3.26	12.68
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	20	13.06	2.14	13.28
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	20	13.03	1.49	13.1
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	20	12.9	1.36	13.14
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	20	12.82	1.96	13.22
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	20	12.82	1.41	12.75
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	20	12.56	0.85	12.65
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	20	12.28	1.69	12.42
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	20	12.14	2.3	11.38
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	20	12.07	1.21	12.42
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	20	11.94	1.01	11.84
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	20	11.84	4.13	11.29
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	20	11.82	1.54	12.21
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	20	11.78	2.18	12.18
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	20	11.66	1.79	11.9
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	20	11.65	1.38	11.31
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	20	11.58	0.97	11.55
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	20	11.56	1.25	11.87
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	20	11.56	2.01	12.0
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	20	11.56	1.32	11.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	20	11.44	1.22	11.32
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	20	11.32	1.57	11.21
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	20	11.31	2.37	11.73
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	20	10.95	1.56	11.22
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	20	10.47	1.25	10.23
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	20	10.45	3.36	10.82
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	20	10.26	1.24	10.13
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	20	10.21	1.83	9.82
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	20	10.21	1.51	9.85
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	20	10.13	1.85	10.06
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	20	10.03	0.76	9.84
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	20	9.83	1.6	10.0
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	20	9.77	1.26	9.73
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	20	9.77	1.85	9.62
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	20	9.75	1.79	9.8
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	20	9.68	5.19	9.59
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	20	9.67	1.55	9.2
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	20	9.67	4.05	10.16
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	20	9.55	1.48	9.48
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	20	9.53	0.83	9.77
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	20	9.52	1.75	9.6
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	20	9.45	0.74	9.59
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	20	9.34	1.46	9.39
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	20	9.32	2.7	9.56
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	20	9.15	0.61	9.2
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	20	9.12	1.27	8.94
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	20	9.12	4.9	8.74
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	20	9.12	1.37	8.73
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	20	9.09	1.14	9.25
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	20	9.05	1.27	9.3
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	20	9.03	1.83	9.39
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	20	8.98	0.5	8.79
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	20	8.95	0.77	9.1
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	20	8.94	1.88	8.89
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	20	8.74	0.82	8.46
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	20	8.73	1.96	8.38
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	20	8.55	1.81	8.36
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	20	8.49	1.04	8.36
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	20	8.48	1.44	8.24
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	20	8.45	3.35	8.38
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	20	8.32	3.23	8.36
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	20	8.22	1.55	8.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	20	8.22	1.91	8.36
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	20	8.12	1.85	7.94
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	20	8.0	0.04	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	20	8.0	0.05	8.01
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	20	8.0	0.04	8.0
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	20	7.98	0.05	8.0
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	20	7.97	0.73	7.82
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	20	7.95	4.64	7.9
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	20	7.9	0.14	7.94
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	20	7.83	0.14	7.83
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	20	7.78	0.21	7.82
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	20	7.75	0.13	7.79
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	20	7.75	2.46	8.98
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	20	7.71	1.36	7.63
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	20	7.65	0.23	7.73
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	20	7.63	0.45	7.86
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	20	7.63	0.78	7.96
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	20	7.62	1.44	7.07
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	20	7.61	0.44	7.78
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	20	7.54	0.52	7.88
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	20	7.53	0.48	7.74
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	20	7.51	0.53	7.76
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	20	7.5	0.51	7.71
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	20	7.46	0.81	7.9
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	20	7.42	1.26	6.99
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	20	7.4	0.42	7.5
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	20	7.35	0.3	7.41
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	20	7.35	2.18	6.96
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	20	7.31	0.78	7.62
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	20	7.31	1.32	6.99
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	20	7.29	0.16	7.28
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	20	7.28	0.78	7.74
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	20	7.28	0.48	7.37
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	20	7.27	0.66	7.33
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	20	7.26	0.69	7.39
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	20	7.21	0.48	7.16
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	20	7.2	0.64	7.09
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	20	7.17	3.97	6.16
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	20	7.13	0.4	7.08
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	20	7.1	2.23	7.36
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	20	7.06	0.4	7.18
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	20	7.01	0.72	6.93

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	20	7.0	0.65	6.9
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	20	6.96	2.26	7.24
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	20	6.95	0.54	6.8
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	20	6.94	0.3	6.96
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	20	6.93	0.94	7.13
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	20	6.92	0.33	6.85
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	20	6.81	2.13	6.32
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	20	6.73	0.99	6.88
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	20	6.73	2.88	6.66
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	20	6.72	0.14	6.72
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	20	6.72	1.41	6.82
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	20	6.68	0.78	6.73
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	20	6.68	1.1	6.87
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	20	6.64	1.41	7.06
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	20	6.64	3.19	7.68
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	20	6.6	2.46	6.88
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	20	6.56	0.14	6.57
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	20	6.51	0.66	6.6
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	20	6.5	0.42	6.38
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	20	6.48	0.74	6.52
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	20	6.48	0.51	6.48
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	20	6.48	0.85	6.62
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	20	6.47	0.87	6.12
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	20	6.47	1.42	7.07
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	20	6.42	0.74	6.14
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	20	6.42	1.01	6.66
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	20	6.42	0.63	6.63
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	20	6.39	2.09	7.1
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	20	6.36	0.37	6.56
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	20	6.35	0.16	6.36
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	20	6.33	0.18	6.34
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	20	6.31	0.29	6.33
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	20	6.25	1.11	6.06
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	20	6.25	1.12	6.55
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	20	6.23	3.89	5.73
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	20	6.22	0.58	6.4
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	20	6.22	1.65	6.02
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	20	6.22	1.39	6.42
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	20	6.2	1.58	6.54
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	20	6.17	1.95	6.8
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	20	6.16	0.83	6.26
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	20	6.15	0.76	6.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	20	6.14	0.17	6.17
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	20	6.12	0.52	6.31
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	20	6.11	0.13	6.08
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	20	6.1	0.39	6.22
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	20	6.1	0.79	6.0
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	20	6.04	0.65	6.08
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	20	6.02	1.85	5.58
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	20	6.01	0.65	6.1
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	20	6.0	0.83	6.02
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	20	6.0	0.62	5.86
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	20	6.0	2.26	5.88
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	20	5.95	1.16	6.21
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	20	5.95	1.5	6.24
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	20	5.91	1.41	6.18
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	20	5.88	0.69	5.88
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	20	5.85	0.59	5.79
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	20	5.82	0.78	5.63
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	20	5.76	1.6	5.82
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	20	5.76	1.34	6.33
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	20	5.72	0.09	5.75
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	20	5.71	1.12	5.33
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	20	5.71	1.52	5.74
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	20	5.7	0.85	5.76
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	20	5.64	0.88	5.6
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	20	5.62	0.6	5.59
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	20	5.6	0.47	5.57
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	20	5.59	0.22	5.62
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	20	5.58	0.7	5.44
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	20	5.58	0.76	5.78
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	20	5.57	0.79	5.86
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	20	5.57	2.68	5.34
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	20	5.56	1.94	6.03
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	20	5.56	0.23	5.58
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	20	5.55	0.93	5.64
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	20	5.53	0.58	5.36
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	20	5.52	2.31	5.24
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	20	5.49	0.86	5.62
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	20	5.48	0.65	5.52
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	20	5.47	0.48	5.5
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	20	5.46	1.85	4.97
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	20	5.44	0.66	5.24
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	20	5.4	0.45	5.25

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	20	5.4	0.21	5.42
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	20	5.39	0.72	5.26
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	20	5.37	2.97	6.1
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	20	5.36	1.14	5.42
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	20	5.36	0.94	5.12
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	20	5.3	0.18	5.32
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	20	5.29	0.22	5.26
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	20	5.27	0.81	5.3
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	20	5.26	1.49	5.24
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	20	5.23	2.92	4.6
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	20	5.23	0.64	5.3
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	20	5.19	1.74	5.11
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	20	5.19	0.31	5.2
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	20	5.17	0.56	5.1
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	20	5.15	1.98	4.72
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	20	5.07	0.88	5.3
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	20	5.02	2.18	4.93
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	20	4.99	1.13	4.78
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	20	4.96	0.39	4.9
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	20	4.93	0.43	4.99
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	20	4.86	0.83	4.86
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	20	4.85	2.04	4.14
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	20	4.85	0.93	5.07
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	20	4.82	0.59	4.66
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	20	4.79	1.51	4.56
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	20	4.79	0.78	4.74
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	20	4.77	1.52	5.14
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	20	4.69	0.89	4.85
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	20	4.67	2.01	4.69
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	20	4.66	0.79	4.77
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	20	4.64	1.26	4.64
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	20	4.64	0.47	4.64
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	20	4.64	0.77	4.66
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	20	4.62	0.69	4.5
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	20	4.61	0.49	4.5
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	20	4.53	1.35	4.35
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	20	4.52	0.9	4.56
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	20	4.5	0.33	4.54
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	20	4.44	0.22	4.46
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	20	4.42	1.03	4.77
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	20	4.42	0.73	4.3
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	20	4.4	1.9	5.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	20	4.39	1.0	4.52
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	20	4.38	0.41	4.49
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	20	4.36	0.68	4.38
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	20	4.28	0.76	4.15
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	20	4.27	0.19	4.24
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	20	4.22	2.2	4.34
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	20	4.21	0.51	4.1
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	20	4.21	0.53	4.29
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	20	4.17	0.19	4.2
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	20	4.15	1.49	4.03
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	20	4.15	0.19	4.13
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	20	4.14	1.34	3.95
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	20	4.13	0.43	4.15
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	20	4.12	0.83	4.22
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	20	4.1	0.15	4.08
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	20	4.08	0.15	4.08
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	20	4.04	0.86	4.26
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	20	4.02	0.39	4.0
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	20	3.97	0.51	3.76
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	20	3.95	0.85	4.12
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	20	3.89	0.4	3.87
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	20	3.86	1.72	3.96
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	20	3.84	0.23	3.88
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	20	3.84	0.24	3.86
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	20	3.79	0.82	3.52
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	20	3.74	0.18	3.74
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	20	3.72	2.14	4.32
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	20	3.71	1.89	3.53
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	20	3.7	0.73	3.67
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	20	3.67	1.55	3.92
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	20	3.62	1.53	3.54
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	20	3.56	0.41	3.54
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	20	3.55	0.22	3.5
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	20	3.5	1.48	3.84
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	20	3.44	0.41	3.3
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	20	3.42	0.12	3.41
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	20	3.27	1.73	3.24
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	20	3.24	0.53	3.24
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	20	3.23	0.63	3.38
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	20	3.22	0.56	3.17
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	20	3.19	0.46	3.24
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	20	3.15	0.86	3.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	20	3.14	0.54	3.05
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	20	3.13	0.98	3.15
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	20	3.13	1.3	3.34
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	20	3.1	0.61	3.1
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	20	3.09	0.76	3.14
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	20	3.05	0.99	3.36
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	20	2.96	0.56	3.05
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	20	2.95	0.69	3.0
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	20	2.92	1.14	2.76
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	20	2.88	0.62	2.8
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	20	2.86	1.11	2.9
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	20	2.85	1.68	2.77
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	20	2.84	0.65	2.74
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	20	2.83	0.52	2.86
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	20	2.8	0.39	3.0
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	20	2.8	0.61	2.97
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	20	2.74	0.74	2.54
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	20	2.71	0.23	2.67
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	20	2.63	0.29	2.72
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	20	2.63	0.73	2.62
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	20	2.62	0.43	2.53
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	20	2.61	0.58	2.64
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	20	2.47	0.7	2.55
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	20	2.36	0.23	2.36
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	20	2.36	0.27	2.31
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	20	2.32	1.03	2.11
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	20	2.28	0.27	2.24
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	20	2.19	0.81	2.28
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	20	2.19	1.2	2.1
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	20	2.15	0.32	2.04
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	20	2.14	0.98	2.17
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	20	2.05	0.23	2.01
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	20	1.93	0.32	1.96
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	20	1.91	0.46	1.81
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	20	1.87	0.57	1.92
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	20	1.83	0.11	1.83
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	20	1.83	0.43	1.76
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	20	1.82	0.37	1.9
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	20	1.76	0.74	1.77
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	20	1.6	0.21	1.58
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	20	1.49	0.57	1.58
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	20	1.48	0.49	1.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	20	1.4	0.79	1.06
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	20	1.38	0.52	1.29
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	20	1.34	0.17	1.33
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	20	1.28	0.51	1.28
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	20	1.27	0.53	1.18
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	20	1.2	0.56	1.17
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	20	1.08	0.21	1.05
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	20	1.06	0.29	1.0
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	20	1.0	0.61	0.88
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	20	0.96	0.55	0.89
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	20	0.93	0.23	1.02
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	20	0.9	0.3	0.88
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	20	0.89	0.16	0.93
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	20	0.89	0.12	0.92
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	20	0.85	0.39	0.84
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	20	0.69	0.16	0.7
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	20	0.54	0.15	0.55
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	20	0.51	0.17	0.47
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	20	0.26	0.04	0.26
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	20	0.23	0.05	0.23
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	20	0.23	0.05	0.24
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	19	5.36	2.27	5.62
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	19	3.59	1.59	3.86
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	19	3.33	1.83	2.92
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	19	2.86	1.62	2.74
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	19	2.7	1.68	2.3
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	19	2.16	1.27	2.09
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	19	2.06	1.41	1.75
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	19	1.21	0.64	1.2
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	19	1.16	0.67	1.22
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	19	1.15	0.61	1.12
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	19	0.99	0.47	0.94
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	19	0.98	0.48	0.91
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	19	0.26	0.04	0.27
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	19	0.24	0.04	0.23
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	19	0.2	0.06	0.21
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	18	2.54	1.5	2.55
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	18	1.92	1.05	1.64
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	18	1.67	0.75	1.86
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	18	1.5	0.91	1.13
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	18	1.49	0.77	1.64
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	18	1.15	0.71	0.94

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	18	0.85	0.54	0.78
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	18	0.34	0.14	0.37
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	18	0.21	0.05	0.22
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	18	0.2	0.04	0.2
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	17	2.07	1.05	1.95
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	17	1.74	1.37	1.24
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	17	1.68	0.81	1.54
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	17	1.46	0.93	1.43
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	17	0.82	0.52	0.81
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	17	0.23	0.04	0.23
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	17	0.22	0.05	0.22
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	17	0.2	0.05	0.19
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	16	1.33	0.77	1.1
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	16	1.26	0.65	1.43
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	16	0.71	0.4	0.58
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	16	0.21	0.05	0.2
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	16	0.21	0.04	0.22
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	15	0.64	0.44	0.61
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	15	0.24	0.05	0.27
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	15	0.22	0.03	0.23
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	15	0.21	0.06	0.22
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	15	0.19	0.04	0.19
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	14	0.22	0.06	0.24
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	14	0.21	0.05	0.23
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	14	0.2	0.06	0.2
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	14	0.17	0.05	0.16
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	13	1.14	0.78	1.07
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	13	0.45	0.24	0.46
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	13	0.2	0.07	0.2
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	12	0.88	0.6	0.78
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	12	0.21	0.06	0.22
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	11	0.21	0.05	0.23
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	11	0.2	0.05	0.21
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	11	0.2	0.05	0.2
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	11	0.2	0.04	0.2
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	9	0.17	0.04	0.17
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	8	0.4	0.18	0.39
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	7	0.71	0.33	0.72
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	7	0.16	0.03	0.16
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	6	0.16	0.03	0.16
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	6	0.15	0.03	0.16
(1,117)	1:A:28:SER:CB	1:A:37:GLY:H	5	0.35	0.12	0.29

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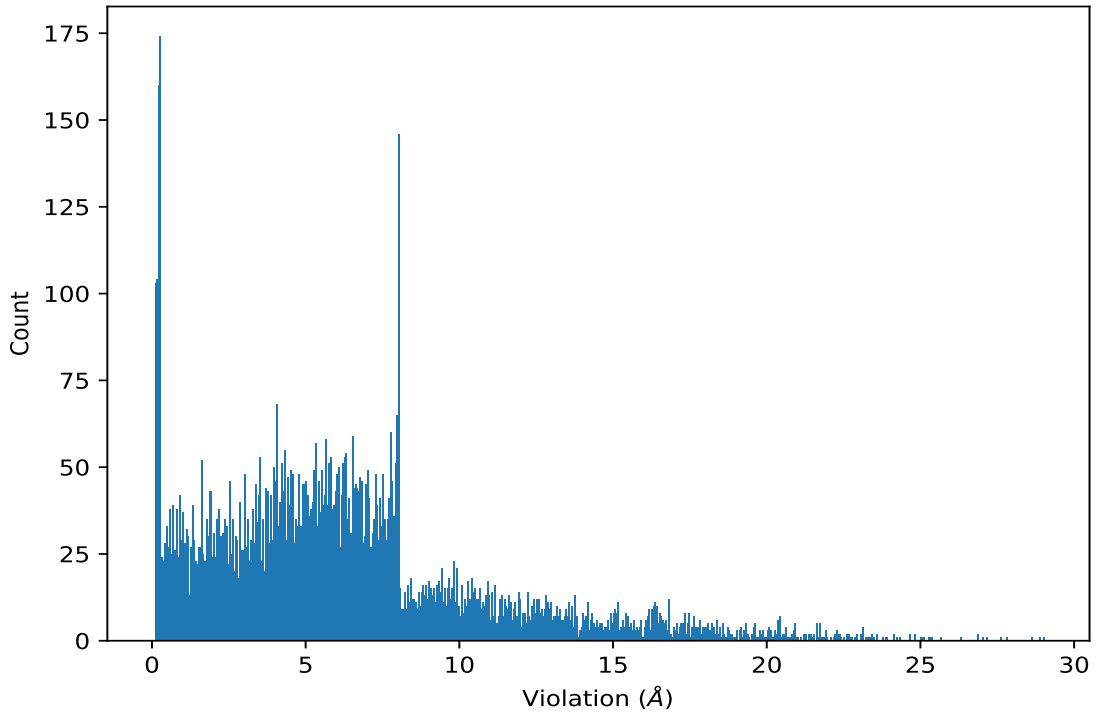
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(4,30)	1:A:73:VAL:O	1:A:77:MET:N	4	0.19	0.03	0.2
(4,35)	1:A:78:LEU:O	1:A:82:TYR:N	4	0.16	0.06	0.14
(4,34)	1:A:77:MET:O	1:A:81:VAL:N	3	0.21	0.06	0.19
(4,26)	1:A:69:GLN:O	1:A:73:VAL:N	3	0.15	0.03	0.16
(4,31)	1:A:74:GLY:O	1:A:78:LEU:N	2	0.19	0.01	0.19
(4,28)	1:A:71:CYS:O	1:A:75:ALA:N	2	0.15	0.03	0.15

[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

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)
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	15	29.01
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	8	28.86
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	12	28.65
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	18	27.81
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	8	27.61
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	12	27.18
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	15	27.02
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	6	26.9
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	9	26.87
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	8	26.34
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	8	25.66
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	12	25.38
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	18	25.34
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	2	25.25
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	15	25.15
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	15	25.07
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	12	25.0
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	17	24.84
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	17	24.8
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	17	24.69
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	5	24.67
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	19	24.3
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	12	24.23
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	15	24.13
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	15	24.12
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	18	23.94
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	14	23.86
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	18	23.75
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	17	23.57
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	1	23.56
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	9	23.46
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	16	23.45
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	11	23.43
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	15	23.37
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	6	23.33
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	8	23.27
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	18	23.24
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	18	23.15
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	2	23.15
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	4	23.15
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	18	23.13
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	13	23.08
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	12	23.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	17	22.94
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	19	22.93
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	6	22.9
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	19	22.76
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	6	22.72
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	6	22.69
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	12	22.66
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	19	22.63
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	12	22.6
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	15	22.54
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	9	22.43
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	4	22.4
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	18	22.35
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	17	22.34
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	14	22.32
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	10	22.29
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	15	22.28
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	6	22.25
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	14	22.23
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	10	22.22
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	16	22.16
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	14	22.05
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	18	21.98
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	14	21.95
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	5	21.94
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	14	21.93
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	3	21.88
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	8	21.81
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	6	21.76
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	15	21.74
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	17	21.74
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	1	21.71
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	10	21.71
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	15	21.71
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	15	21.66
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	4	21.64
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	9	21.64
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	15	21.63
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	8	21.62
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	12	21.6
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	8	21.51
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	15	21.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	10	21.47
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	3	21.45
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	13	21.42
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	13	21.37
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	16	21.35
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	18	21.27
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	15	21.26
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	6	21.24
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	9	21.23
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	12	21.15
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	19	21.0
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	18	20.97
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	14	20.95
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	4	20.95
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	12	20.95
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	16	20.93
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	14	20.91
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	15	20.89
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	3	20.86
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	18	20.85
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	7	20.84
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	5	20.84
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	12	20.79
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	9	20.74
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	2	20.66
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	2	20.65
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	18	20.63
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	4	20.63
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	7	20.6
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	12	20.58
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	15	20.57
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	18	20.53
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	4	20.51
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	7	20.46
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	1	20.45
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	15	20.44
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	6	20.43
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	18	20.42
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	4	20.41
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	15	20.41
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	15	20.41
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	16	20.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	18	20.39
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	12	20.37
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	8	20.37
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	15	20.37
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	4	20.35
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	16	20.33
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	14	20.31
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	12	20.28
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	3	20.26
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	13	20.26
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	14	20.24
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	11	20.17
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	3	20.15
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	17	20.14
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	11	20.1
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	7	20.09
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	7	20.06
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	12	20.06
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	8	20.06
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	7	20.04
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	17	20.0
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	18	20.0
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	15	19.97
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	19	19.92
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	1	19.9
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	5	19.88
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	19	19.85
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	17	19.83
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	5	19.81
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	16	19.78
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	3	19.77
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	15	19.77
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	2	19.72
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	7	19.66
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	18	19.65
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	5	19.63
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	20	19.62
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	14	19.61
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	5	19.61
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	19	19.59
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	11	19.57
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	1	19.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	4	19.56
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	8	19.52
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	19	19.52
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	2	19.42
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	14	19.4
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	11	19.36
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	18	19.33
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	15	19.32
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	9	19.3
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	16	19.3
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	19	19.3
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	18	19.29
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	15	19.26
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	3	19.25
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	15	19.24
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	16	19.2
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	14	19.2
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	11	19.17
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	14	19.17
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	7	19.14
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	12	19.12
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	13	19.12
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	19	19.02
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	6	19.0
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	13	19.0
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	1	18.98
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	4	18.92
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	8	18.89
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	19	18.87
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	18	18.81
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	6	18.81
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	5	18.78
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	7	18.78
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	18	18.75
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	4	18.74
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	17	18.73
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	18	18.72
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	12	18.72
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	15	18.69
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	5	18.64
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	19	18.63
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	8	18.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	1	18.59
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	15	18.58
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	11	18.57
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	16	18.55
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	20	18.5
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	17	18.48
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	14	18.47
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	6	18.46
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	7	18.46
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	1	18.42
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	18	18.41
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	15	18.38
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	19	18.38
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	1	18.38
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	13	18.37
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	20	18.35
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	9	18.35
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	13	18.34
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	6	18.32
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	15	18.29
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	6	18.26
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	13	18.26
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	16	18.25
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	17	18.24
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	12	18.23
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	7	18.21
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	18	18.21
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	2	18.2
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	17	18.17
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	11	18.17
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	3	18.16
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	19	18.15
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	5	18.13
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	16	18.12
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	4	18.08
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	16	18.07
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	18	18.05
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	7	18.05
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	2	18.05
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	15	18.04
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	4	18.04
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	13	18.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	14	18.02
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	6	17.98
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	15	17.97
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	17	17.96
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	4	17.95
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	10	17.94
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	15	17.93
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	20	17.91
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	2	17.91
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	5	17.89
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	17	17.88
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	12	17.83
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	3	17.83
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	1	17.82
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	11	17.81
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	20	17.81
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	14	17.8
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	1	17.79
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	18	17.77
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	14	17.77
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	17	17.76
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	20	17.74
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	13	17.72
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	11	17.72
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	14	17.72
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	14	17.69
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	1	17.68
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	14	17.68
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	13	17.66
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	13	17.64
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	19	17.62
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	7	17.61
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	2	17.61
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	2	17.61
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	20	17.61
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	12	17.6
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	3	17.58
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	12	17.56
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	10	17.55
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	11	17.55
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	1	17.53
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	17	17.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	8	17.48
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	11	17.48
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	8	17.47
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	6	17.46
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	13	17.45
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	17	17.45
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	1	17.45
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	7	17.43
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	17	17.43
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	7	17.42
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	20	17.41
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	2	17.41
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	8	17.4
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	10	17.39
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	11	17.32
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	3	17.31
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	13	17.31
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	20	17.31
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	15	17.31
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	11	17.31
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	14	17.3
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	6	17.3
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	9	17.28
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	19	17.27
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	10	17.26
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	16	17.25
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	5	17.25
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	6	17.22
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	11	17.22
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	12	17.22
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	2	17.2
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	10	17.2
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	7	17.19
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	3	17.19
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	11	17.17
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	13	17.17
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	16	17.13
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	13	17.13
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	2	17.07
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	14	17.07
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	7	17.07
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	20	17.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	13	17.05
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	3	17.04
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	4	17.04
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	15	17.03
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	8	16.99
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	16	16.98
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	9	16.97
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	20	16.95
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	9	16.92
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	3	16.9
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	17	16.86
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	19	16.84
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	2	16.84
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	2	16.84
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	11	16.84
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	5	16.84
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	10	16.84
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	6	16.83
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	15	16.83
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	1	16.83
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	6	16.82
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	8	16.8
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	5	16.8
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	15	16.79
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	8	16.79
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	17	16.79
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	6	16.74
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	15	16.74
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	11	16.7
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	19	16.7
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	19	16.7
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	1	16.7
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	7	16.68
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	3	16.68
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	8	16.68
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	17	16.67
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	11	16.66
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	7	16.63
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	20	16.62
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	8	16.61
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	2	16.6
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	19	16.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	14	16.6
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	7	16.59
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	18	16.59
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	1	16.58
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	20	16.58
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	3	16.57
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	16	16.57
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	2	16.56
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	10	16.54
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	10	16.54
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	2	16.53
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	1	16.52
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	3	16.52
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	13	16.52
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	19	16.5
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	5	16.5
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	8	16.49
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	15	16.47
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	12	16.46
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	16	16.46
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	11	16.45
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	6	16.44
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	5	16.44
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	3	16.44
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	13	16.43
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	14	16.43
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	1	16.42
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	16	16.42
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	12	16.41
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	9	16.41
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	5	16.41
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	6	16.4
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	9	16.39
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	17	16.39
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	20	16.39
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	20	16.38
(1,353)	1:A:58:SER:CB	1:A:93:ALA:H	9	16.38
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	3	16.38
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	3	16.37
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	1	16.36
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	9	16.36
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	9	16.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	2	16.34
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	19	16.34
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	2	16.33
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	2	16.33
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	11	16.32
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	4	16.32
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	7	16.31
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	19	16.31
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	20	16.3
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	12	16.3
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	11	16.29
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	10	16.28
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	3	16.28
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	2	16.27
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	3	16.26
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	17	16.26
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	14	16.26
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	20	16.25
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	6	16.25
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	10	16.23
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	11	16.21
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	16	16.21
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	16	16.19
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	12	16.19
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	3	16.19
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	12	16.18
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	6	16.17
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	6	16.17
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	3	16.17
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	3	16.17
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	5	16.16
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	17	16.13
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	6	16.12
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	1	16.11
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	8	16.11
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	6	16.11
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	10	16.1
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	16	16.1
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	11	16.09
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	12	16.09
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	18	16.09
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	13	16.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	8	16.08
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	20	16.05
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	10	16.02
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	18	16.01
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	15	16.01
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	8	16.0
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	1	15.99
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	11	15.95
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	11	15.92
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	2	15.92
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	3	15.91
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	16	15.9
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	20	15.9
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	19	15.89
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	11	15.89
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	17	15.87
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	4	15.86
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	19	15.85
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	14	15.85
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	9	15.82
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	2	15.79
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	19	15.77
(1,354)	1:A:58:SER:CB	1:A:94:GLN:H	6	15.77
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	12	15.75
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	18	15.74
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	16	15.71
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	16	15.71
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	16	15.69
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	14	15.68
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	17	15.68
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	9	15.68
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	1	15.66
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	12	15.66
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	2	15.64
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	3	15.64
(1,359)	1:A:58:SER:CB	1:A:99:LYS:H	20	15.62
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	4	15.6
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	12	15.6
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	7	15.58
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	5	15.57
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	8	15.55
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	11	15.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	16	15.53
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	10	15.52
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	15	15.52
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	19	15.49
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	1	15.48
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	6	15.48
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	13	15.48
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	11	15.47
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	8	15.46
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	15	15.46
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	2	15.44
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	1	15.44
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	13	15.43
(1,352)	1:A:58:SER:CB	1:A:92:MET:H	6	15.42
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	19	15.42
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	6	15.41
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	8	15.4
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	18	15.4
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	15	15.39
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	10	15.38
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	5	15.37
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	8	15.36
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	17	15.35
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	3	15.35
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	2	15.35
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	18	15.31
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	8	15.3
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	5	15.3
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	19	15.27
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	13	15.26
(1,311)	1:A:51:SER:CB	1:A:93:ALA:H	6	15.26
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	15	15.25
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	9	15.21
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	13	15.21
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	17	15.21
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	9	15.2
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	15	15.2
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	17	15.2
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	2	15.19
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	15	15.18
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	16	15.17
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	18	15.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	19	15.16
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	17	15.16
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	12	15.15
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	18	15.15
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	15	15.14
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	1	15.14
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	16	15.14
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	3	15.14
(1,358)	1:A:58:SER:CB	1:A:98:GLU:H	20	15.12
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	1	15.12
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	11	15.11
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	3	15.11
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	5	15.1
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	19	15.1
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	15	15.1
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	17	15.1
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	17	15.06
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	10	15.06
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	16	15.06
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	13	15.05
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	16	15.05
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	4	15.04
(1,357)	1:A:58:SER:CB	1:A:97:GLY:H	20	15.03
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	13	15.03
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	1	15.03
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	3	15.02
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	1	15.02
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	11	15.0
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	10	15.0
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	16	14.99
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	9	14.99
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	18	14.97
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	5	14.97
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	13	14.96
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	6	14.94
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	20	14.93
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	10	14.92
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	20	14.92
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	19	14.91
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	12	14.91
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	4	14.9
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	19	14.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	4	14.89
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	10	14.86
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	15	14.86
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	2	14.85
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	13	14.85
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	1	14.84
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	13	14.83
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	9	14.8
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	19	14.8
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	3	14.79
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	4	14.79
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	9	14.79
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	19	14.79
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	16	14.74
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	16	14.74
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	19	14.73
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	5	14.72
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	2	14.7
(1,355)	1:A:58:SER:CB	1:A:95:ASP:H	9	14.68
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	1	14.65
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	14	14.64
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	16	14.64
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	5	14.63
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	14	14.63
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	11	14.61
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	2	14.6
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	5	14.58
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	8	14.56
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	15	14.55
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	3	14.55
(1,312)	1:A:51:SER:CB	1:A:94:GLN:H	6	14.54
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	12	14.53
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	16	14.52
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	19	14.51
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	4	14.49
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	13	14.49
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	20	14.49
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	19	14.49
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	17	14.48
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	17	14.47
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	19	14.45
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	4	14.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	18	14.42
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	1	14.42
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	15	14.39
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	4	14.38
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	2	14.37
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	19	14.37
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	10	14.37
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	10	14.35
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	3	14.35
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	20	14.34
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	7	14.33
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	1	14.33
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	18	14.31
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	15	14.31
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	12	14.31
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	19	14.29
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	11	14.28
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	12	14.27
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	16	14.27
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	15	14.27
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	9	14.26
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	7	14.24
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	1	14.23
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	14	14.21
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	8	14.2
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	1	14.2
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	15	14.19
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	7	14.18
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	8	14.18
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	2	14.16
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	20	14.16
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	9	14.16
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	12	14.15
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	12	14.15
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	20	14.15
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	2	14.14
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	9	14.13
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	7	14.13
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	1	14.13
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	9	14.11
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	15	14.11
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	1	14.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	6	14.09
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	7	14.09
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	5	14.08
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	13	14.07
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	17	14.06
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	11	14.06
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	1	14.04
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	3	14.04
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	7	14.03
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	15	14.03
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	19	14.03
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	9	14.01
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	4	14.01
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	15	14.0
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	9	13.98
(1,351)	1:A:58:SER:CB	1:A:91:ARG:H	9	13.98
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	19	13.98
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	19	13.98
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	19	13.95
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	7	13.93
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	3	13.9
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	13	13.88
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	20	13.83
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	9	13.82
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	9	13.81
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	3	13.81
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	11	13.8
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	20	13.8
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	15	13.8
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	13	13.79
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	13	13.79
(1,350)	1:A:58:SER:CB	1:A:90:LYS:H	17	13.78
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	17	13.78
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	15	13.78
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	20	13.77
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	3	13.76
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	15	13.76
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	19	13.76
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	4	13.76
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	19	13.76
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	5	13.76
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	19	13.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	15	13.73
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	7	13.73
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	13	13.72
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	15	13.71
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	8	13.7
(1,314)	1:A:51:SER:CB	1:A:96:ALA:H	1	13.7
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	1	13.7
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	3	13.7
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	14	13.69
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	7	13.68
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	12	13.68
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	17	13.67
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	5	13.66
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	8	13.65
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	18	13.64
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	17	13.63
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	6	13.62
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	14	13.62
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	12	13.62
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	1	13.61
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	17	13.6
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	1	13.6
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	20	13.6
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	2	13.6
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	20	13.59
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	4	13.59
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	4	13.58
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	12	13.58
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	19	13.55
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	17	13.55
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	13	13.55
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	18	13.54
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	5	13.53
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	17	13.53
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	4	13.53
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	12	13.52
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	1	13.51
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	1	13.51
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	11	13.49
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	13	13.49
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	20	13.48
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	14	13.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	10	13.48
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	20	13.47
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	2	13.47
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	13	13.47
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	17	13.46
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	14	13.45
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	3	13.45
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	13	13.45
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	7	13.45
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	15	13.44
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	1	13.42
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	7	13.4
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	7	13.38
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	13	13.38
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	18	13.37
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	4	13.37
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	4	13.36
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	4	13.36
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	14	13.35
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	17	13.35
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	8	13.34
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	12	13.33
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	5	13.32
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	3	13.3
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	18	13.29
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	13	13.29
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	1	13.28
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	19	13.28
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	18	13.27
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	5	13.26
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	7	13.26
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	10	13.26
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	10	13.25
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	7	13.24
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	6	13.24
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	19	13.22
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	1	13.21
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	10	13.21
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	18	13.21
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	7	13.21
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	15	13.2
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	7	13.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	4	13.19
(1,356)	1:A:58:SER:CB	1:A:96:ALA:H	9	13.18
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	3	13.18
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	12	13.17
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	8	13.17
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	16	13.16
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	19	13.16
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	20	13.15
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	8	13.14
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	1	13.14
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	15	13.13
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	2	13.13
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	5	13.13
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	11	13.12
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	13	13.11
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	4	13.1
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	3	13.1
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	12	13.1
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	18	13.09
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	1	13.08
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	8	13.07
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	7	13.06
(1,310)	1:A:51:SER:CB	1:A:92:MET:H	6	13.03
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	1	13.02
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	1	13.02
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	11	13.01
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	11	13.01
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	1	13.01
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	1	12.99
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	5	12.98
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	11	12.98
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	4	12.98
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	5	12.98
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	18	12.98
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	18	12.97
(1,12)	1:A:3:ALA:H	1:A:86:SER:CB	3	12.97
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	19	12.96
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	6	12.96
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	14	12.96
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	2	12.94
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	3	12.94
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	1	12.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	10	12.92
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	13	12.92
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	1	12.92
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	16	12.92
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	4	12.92
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	17	12.9
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	16	12.89
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	20	12.89
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	17	12.88
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	10	12.88
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	9	12.88
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	4	12.88
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	11	12.88
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	1	12.87
(1,313)	1:A:51:SER:CB	1:A:95:ASP:H	4	12.86
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	11	12.86
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	15	12.86
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	9	12.85
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	15	12.85
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	2	12.84
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	2	12.84
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	8	12.82
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	16	12.82
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	3	12.82
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	17	12.81
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	1	12.81
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	20	12.81
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	3	12.81
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	20	12.81
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	14	12.8
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	7	12.79
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	14	12.79
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	16	12.79
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	6	12.79
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	15	12.78
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	3	12.76
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	18	12.75
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	5	12.75
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	20	12.75
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	20	12.74
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	15	12.74
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	12	12.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	8	12.72
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	6	12.71
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	3	12.71
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	2	12.71
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	8	12.7
(1,6)	1:A:2:SER:H	1:A:86:SER:CB	3	12.7
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	14	12.69
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	13	12.69
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	15	12.69
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	3	12.69
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	1	12.68
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	1	12.66
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	16	12.65
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	4	12.64
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	6	12.64
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	13	12.63
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	7	12.63
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	12	12.61
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	17	12.61
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	2	12.61
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	4	12.61
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	4	12.6
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	3	12.6
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	10	12.6
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	2	12.6
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	1	12.58
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	3	12.58
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	15	12.57
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	7	12.57
(1,315)	1:A:51:SER:CB	1:A:97:GLY:H	5	12.57
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	18	12.56
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	13	12.56
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	4	12.55
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	10	12.54
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	19	12.54
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	2	12.54
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	6	12.54
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	2	12.53
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	8	12.53
(1,83)	1:A:19:GLU:H	1:A:51:SER:CB	16	12.52
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	1	12.52
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	9	12.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	2	12.51
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	17	12.5
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	4	12.5
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	11	12.49
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	3	12.48
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	16	12.48
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	20	12.47
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	17	12.47
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	18	12.46
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	15	12.46
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	11	12.46
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	3	12.45
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	8	12.45
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	11	12.44
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	2	12.42
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	6	12.42
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	10	12.42
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	17	12.41
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	12	12.41
(1,24)	1:A:5:ARG:H	1:A:86:SER:CB	10	12.41
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	12	12.4
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	4	12.4
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	12	12.4
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	11	12.39
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	7	12.39
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	9	12.39
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	1	12.39
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	13	12.38
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	4	12.38
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	13	12.37
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	11	12.37
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	9	12.37
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	6	12.36
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	20	12.35
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	15	12.33
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	3	12.33
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	16	12.32
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	10	12.31
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	4	12.31
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	1	12.29
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	20	12.29
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	19	12.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	15	12.28
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	5	12.27
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	6	12.25
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	15	12.25
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	18	12.24
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	7	12.24
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	12	12.24
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	11	12.23
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	13	12.23
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	7	12.23
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	9	12.23
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	13	12.23
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	20	12.23
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	2	12.23
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	14	12.22
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	12	12.22
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	4	12.22
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	10	12.21
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	15	12.2
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	12	12.19
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	13	12.18
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	16	12.18
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	6	12.16
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	14	12.13
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	12	12.13
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	2	12.13
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	19	12.13
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	13	12.12
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	14	12.12
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	8	12.11
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	9	12.11
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	5	12.1
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	15	12.09
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	3	12.09
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	5	12.09
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	5	12.09
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	5	12.07
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	11	12.05
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	13	12.05
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	20	12.04
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	8	12.04
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	10	12.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	16	12.01
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	5	11.99
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	6	11.99
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	18	11.99
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	2	11.99
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	15	11.97
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	11	11.97
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	16	11.97
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	20	11.97
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	5	11.96
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	18	11.96
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	13	11.96
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	2	11.96
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	20	11.95
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	14	11.95
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	18	11.95
(1,309)	1:A:51:SER:CB	1:A:91:ARG:H	9	11.94
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	14	11.94
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	1	11.94
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	19	11.93
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	13	11.93
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	6	11.93
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	2	11.93
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	15	11.92
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	18	11.92
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	9	11.91
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	15	11.9
(1,316)	1:A:51:SER:CB	1:A:98:GLU:H	8	11.89
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	11	11.89
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	18	11.89
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	3	11.88
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	12	11.87
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	9	11.87
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	19	11.87
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	3	11.84
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	5	11.84
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	6	11.84
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	18	11.84
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	10	11.83
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	18	11.83
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	14	11.81
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	14	11.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	10	11.81
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	14	11.81
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	10	11.81
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	3	11.79
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	14	11.78
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	19	11.78
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	3	11.77
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	1	11.77
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	4	11.77
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	13	11.76
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	12	11.75
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	18	11.75
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	4	11.73
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	7	11.73
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	3	11.72
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	5	11.71
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	2	11.71
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	5	11.71
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	17	11.7
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	15	11.7
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	14	11.7
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	17	11.69
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	5	11.69
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	5	11.69
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	7	11.68
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	7	11.68
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	3	11.68
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	6	11.68
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	11	11.67
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	10	11.64
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	17	11.64
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	16	11.64
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	12	11.63
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	20	11.63
(1,317)	1:A:51:SER:CB	1:A:99:LYS:H	8	11.63
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	9	11.63
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	12	11.63
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	19	11.63
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	18	11.62
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	4	11.62
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	11	11.61
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	13	11.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	17	11.6
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	5	11.59
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	6	11.57
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	6	11.57
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	15	11.57
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	13	11.56
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	4	11.55
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	17	11.55
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	4	11.55
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	2	11.54
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	17	11.54
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	7	11.53
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	5	11.53
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	20	11.52
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	13	11.51
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	19	11.51
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	11	11.5
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	16	11.5
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	11	11.5
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	19	11.49
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	20	11.49
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	12	11.49
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	19	11.49
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	2	11.48
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	4	11.48
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	10	11.48
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	8	11.48
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	2	11.48
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	19	11.47
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	8	11.47
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	9	11.46
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	8	11.45
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	3	11.45
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	19	11.44
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	3	11.44
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	20	11.42
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	4	11.4
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	14	11.4
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	12	11.39
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	11	11.39
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	19	11.39
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	14	11.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	5	11.38
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	12	11.38
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	12	11.38
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	7	11.37
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	2	11.37
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	20	11.37
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	12	11.36
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	13	11.36
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	4	11.36
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	20	11.34
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	2	11.33
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	5	11.33
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	9	11.33
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	7	11.33
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	17	11.32
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	10	11.31
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	4	11.31
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	3	11.3
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	16	11.3
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	9	11.3
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	2	11.3
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	1	11.29
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	7	11.27
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	5	11.27
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	18	11.26
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	9	11.26
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	8	11.26
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	6	11.25
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	2	11.24
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	4	11.23
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	8	11.22
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	9	11.21
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	11	11.21
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	15	11.2
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	18	11.19
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	12	11.19
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	19	11.18
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	11	11.18
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	1	11.18
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	9	11.18
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	19	11.17
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	20	11.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	1	11.17
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	7	11.17
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	18	11.16
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	12	11.15
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	15	11.15
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	19	11.15
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	16	11.15
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	16	11.14
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	14	11.14
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	3	11.13
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	19	11.12
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	13	11.11
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	19	11.11
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	18	11.11
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	1	11.1
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	17	11.1
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	5	11.1
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	1	11.09
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	3	11.08
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	1	11.08
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	14	11.08
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	20	11.08
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	17	11.07
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	10	11.07
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	5	11.07
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	6	11.06
(1,308)	1:A:51:SER:CB	1:A:90:LYS:H	17	11.05
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	8	11.05
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	6	11.04
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	4	11.04
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	7	11.04
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	17	11.03
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	8	11.03
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	18	11.03
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	15	10.99
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	10	10.99
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	17	10.99
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	14	10.99
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	20	10.98
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	4	10.98
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	13	10.97
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	4	10.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	5	10.97
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	2	10.97
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	5	10.96
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	6	10.96
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	1	10.96
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	13	10.95
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	16	10.95
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	13	10.95
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	16	10.94
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	17	10.94
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	5	10.94
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	4	10.93
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	6	10.93
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	8	10.92
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	3	10.91
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	6	10.91
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	13	10.91
(1,130)	1:A:28:SER:CB	1:A:54:SER:H	1	10.91
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	11	10.9
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	18	10.9
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	18	10.9
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	1	10.9
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	11	10.89
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	3	10.89
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	14	10.89
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	20	10.89
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	6	10.89
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	7	10.89
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	18	10.88
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	13	10.87
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	1	10.87
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	15	10.87
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	19	10.87
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	2	10.86
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	1	10.86
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	6	10.85
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	16	10.85
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	17	10.84
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	11	10.83
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	12	10.83
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	17	10.83
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	12	10.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	16	10.81
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	5	10.8
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	12	10.8
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	16	10.79
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	7	10.79
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	16	10.79
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	6	10.78
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	15	10.78
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	15	10.76
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	18	10.76
(1,18)	1:A:4:ASN:H	1:A:86:SER:CB	3	10.76
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	4	10.76
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	2	10.75
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	7	10.75
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	9	10.74
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	1	10.74
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	2	10.73
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	8	10.73
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	20	10.73
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	5	10.73
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	16	10.72
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	16	10.72
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	19	10.71
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	9	10.7
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	10	10.69
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	13	10.69
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	5	10.69
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	20	10.69
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	3	10.68
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	15	10.68
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	8	10.68
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	11	10.67
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	3	10.66
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	18	10.66
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	4	10.66
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	10	10.65
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	8	10.65
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	4	10.65
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	6	10.64
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	3	10.63
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	18	10.63
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	19	10.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	18	10.62
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	20	10.62
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	20	10.62
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	2	10.62
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	7	10.61
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	14	10.61
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	10	10.61
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	3	10.61
(1,86)	1:A:20:LYS:H	1:A:51:SER:CB	10	10.6
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	8	10.6
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	8	10.6
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	16	10.59
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	5	10.58
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	13	10.58
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	19	10.58
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	17	10.58
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	10	10.58
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	10	10.57
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	20	10.57
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	17	10.55
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	17	10.54
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	14	10.54
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	4	10.54
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	8	10.54
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	13	10.54
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	14	10.53
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	15	10.53
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	19	10.53
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	16	10.53
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	17	10.52
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	6	10.52
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	12	10.51
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	11	10.51
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	14	10.51
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	12	10.51
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	8	10.49
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	4	10.49
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	11	10.49
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	9	10.48
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	16	10.48
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	18	10.48
(1,100)	1:A:23:ARG:H	1:A:51:SER:CB	11	10.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	16	10.47
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	16	10.47
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	1	10.47
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	12	10.46
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	12	10.46
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	15	10.46
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	6	10.46
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	11	10.45
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	9	10.45
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	6	10.45
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	12	10.45
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	14	10.44
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	19	10.44
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	3	10.44
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	15	10.43
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	17	10.43
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	10	10.42
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	4	10.42
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	1	10.42
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	14	10.42
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	5	10.41
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	2	10.41
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	12	10.41
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	3	10.4
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	2	10.4
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	17	10.39
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	15	10.39
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	4	10.38
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	14	10.38
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	6	10.38
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	14	10.37
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	3	10.37
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	10	10.36
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	13	10.36
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	7	10.36
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	3	10.36
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	13	10.36
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	7	10.34
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	3	10.34
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	3	10.34
(1,36)	1:A:7:TRP:H	1:A:86:SER:CB	1	10.33
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	14	10.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	20	10.33
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	11	10.31
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	18	10.31
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	4	10.31
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	18	10.3
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	1	10.3
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	13	10.3
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	11	10.29
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	4	10.29
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	17	10.29
(1,127)	1:A:28:SER:H	1:A:51:SER:CB	8	10.29
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	2	10.29
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	10	10.28
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	6	10.28
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	20	10.28
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	18	10.27
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	12	10.26
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	6	10.25
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	9	10.25
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	11	10.25
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	14	10.25
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	14	10.25
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	16	10.25
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	4	10.25
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	17	10.24
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	6	10.24
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	1	10.24
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	1	10.23
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	8	10.22
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	4	10.22
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	7	10.22
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	4	10.22
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	6	10.21
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	8	10.21
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	3	10.2
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	18	10.2
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	15	10.2
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	5	10.19
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	20	10.19
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	17	10.18
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	18	10.18
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	11	10.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	20	10.17
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	19	10.16
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	11	10.15
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	17	10.15
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	17	10.14
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	4	10.14
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	2	10.13
(1,349)	1:A:58:SER:CB	1:A:89:VAL:H	9	10.13
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	16	10.13
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	14	10.12
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	8	10.12
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	19	10.11
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	9	10.1
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	13	10.1
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	12	10.1
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	14	10.1
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	5	10.1
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	14	10.09
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	7	10.09
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	18	10.07
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	12	10.07
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	1	10.06
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	9	10.06
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	12	10.06
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	5	10.06
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	12	10.06
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	6	10.05
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	4	10.05
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	5	10.04
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	13	10.04
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	13	10.03
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	14	10.01
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	1	10.0
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	3	10.0
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	14	10.0
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	14	9.99
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	12	9.99
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	7	9.99
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	20	9.99
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	1	9.98
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	8	9.98
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	17	9.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	13	9.98
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	16	9.97
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	19	9.96
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	9	9.95
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	2	9.95
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	20	9.95
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	14	9.95
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	13	9.94
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	5	9.94
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	12	9.94
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	17	9.94
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	17	9.94
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	18	9.94
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	2	9.94
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	11	9.93
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	19	9.93
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	7	9.93
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	12	9.93
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	13	9.92
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	11	9.92
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	7	9.91
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	16	9.91
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	20	9.91
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	14	9.9
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	17	9.89
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	8	9.89
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	15	9.89
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	11	9.89
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	4	9.88
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	14	9.88
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	6	9.88
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	6	9.88
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	8	9.87
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	16	9.87
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	6	9.86
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	16	9.85
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	2	9.85
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	5	9.85
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	5	9.85
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	20	9.84
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	16	9.84
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	15	9.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	19	9.84
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	20	9.83
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	9	9.83
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	12	9.82
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	2	9.82
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	19	9.81
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	10	9.81
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	6	9.81
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	4	9.81
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	1	9.81
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	15	9.81
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	20	9.81
(1,132)	1:A:28:SER:CB	1:A:56:LYS:H	14	9.81
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	10	9.81
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	18	9.81
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	13	9.8
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	5	9.79
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	20	9.79
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	15	9.79
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	19	9.79
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	16	9.78
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	17	9.78
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	15	9.78
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	7	9.78
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	14	9.78
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	4	9.77
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	2	9.75
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	14	9.75
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	18	9.75
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	15	9.75
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	17	9.75
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	20	9.74
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	2	9.74
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	1	9.74
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	7	9.74
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	6	9.74
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	4	9.73
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	12	9.73
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	12	9.73
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	1	9.72
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	8	9.71
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	5	9.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	4	9.71
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	19	9.7
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	20	9.7
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	17	9.7
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	9	9.69
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	17	9.69
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	10	9.69
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	8	9.68
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	12	9.68
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	7	9.67
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	9	9.67
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	9	9.67
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	14	9.67
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	7	9.67
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	14	9.67
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	5	9.67
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	3	9.66
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	15	9.66
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	15	9.66
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	19	9.64
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	8	9.64
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	5	9.64
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	19	9.63
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	3	9.63
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	5	9.63
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	18	9.62
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	2	9.62
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	17	9.62
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	4	9.62
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	7	9.62
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	9	9.62
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	9	9.61
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	20	9.61
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	13	9.61
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	10	9.6
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	19	9.6
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	9	9.6
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	7	9.59
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	10	9.59
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	9	9.59
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	17	9.57
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	13	9.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	19	9.55
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	5	9.55
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	2	9.54
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	9	9.54
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	14	9.53
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	16	9.53
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	9	9.53
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	10	9.53
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	14	9.53
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	2	9.53
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	5	9.53
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	5	9.52
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	6	9.52
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	14	9.51
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	19	9.51
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	9	9.5
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	10	9.5
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	5	9.49
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	9	9.49
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	18	9.49
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	18	9.49
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	15	9.48
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	9	9.47
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	7	9.47
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	17	9.46
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	9	9.46
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	19	9.46
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	9	9.46
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	19	9.45
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	14	9.45
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	11	9.45
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	5	9.44
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	5	9.44
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	14	9.44
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	19	9.43
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	17	9.43
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	1	9.43
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	16	9.43
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	8	9.43
(1,21)	1:A:5:ARG:H	1:A:51:SER:CB	8	9.42
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	15	9.41
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	14	9.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	4	9.41
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	11	9.41
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	20	9.4
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	3	9.4
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	6	9.4
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	1	9.4
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	16	9.4
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	20	9.39
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	17	9.39
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	4	9.39
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	2	9.38
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	13	9.38
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	16	9.38
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	8	9.38
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	7	9.38
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	7	9.38
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	14	9.37
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	10	9.36
(1,30)	1:A:6:ARG:H	1:A:86:SER:CB	10	9.36
(1,134)	1:A:28:SER:H	1:A:58:SER:CB	8	9.36
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	11	9.36
(1,84)	1:A:19:GLU:H	1:A:58:SER:CB	20	9.34
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	17	9.34
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	1	9.34
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	8	9.34
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	18	9.34
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	12	9.34
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	5	9.33
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	16	9.33
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	1	9.33
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	9	9.33
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	16	9.32
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	19	9.31
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	15	9.31
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	19	9.31
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	9	9.31
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	1	9.31
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	3	9.3
(1,77)	1:A:18:SER:H	1:A:51:SER:CB	16	9.29
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	3	9.29
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	10	9.28
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	18	9.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	16	9.28
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	19	9.28
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	13	9.27
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	17	9.27
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	20	9.26
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	10	9.26
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	3	9.26
(1,114)	1:A:27:GLU:H	1:A:51:SER:CB	6	9.26
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	7	9.26
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	14	9.25
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	9	9.25
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	2	9.25
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	18	9.24
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	2	9.24
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	14	9.24
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	19	9.23
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	2	9.23
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	12	9.22
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	8	9.22
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	10	9.22
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	20	9.21
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	18	9.21
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	7	9.21
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	11	9.2
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	19	9.2
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	20	9.2
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	3	9.2
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	4	9.19
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	14	9.19
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	4	9.18
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	12	9.17
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	18	9.17
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	17	9.16
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	12	9.15
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	9	9.15
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	6	9.15
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	9	9.15
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	7	9.15
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	8	9.14
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	5	9.14
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	2	9.14
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	8	9.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	3	9.13
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	17	9.13
(1,14)	1:A:4:ASN:H	1:A:38:CYS:CB	10	9.12
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	13	9.12
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	3	9.1
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	10	9.1
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	16	9.1
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	20	9.1
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	4	9.1
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	6	9.09
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	20	9.09
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	8	9.09
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	11	9.08
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	16	9.07
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	8	9.06
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	18	9.06
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	19	9.06
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	16	9.06
(1,96)	1:A:22:LEU:H	1:A:51:SER:CB	16	9.05
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	7	9.05
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	12	9.05
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	3	9.05
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	2	9.05
(1,115)	1:A:27:GLU:H	1:A:58:SER:CB	6	9.05
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	5	9.04
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	11	9.04
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	16	9.04
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	7	9.03
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	12	9.03
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	7	9.03
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	20	9.02
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	2	9.02
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	8	9.02
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	12	9.02
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	8	9.02
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	17	9.01
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	16	9.01
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	7	9.0
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	6	9.0
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	20	9.0
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	15	9.0
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	13	8.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	17	8.99
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	3	8.99
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	2	8.98
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	8	8.98
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	11	8.98
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	18	8.98
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	15	8.97
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	6	8.97
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	18	8.96
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	1	8.96
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	17	8.96
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	11	8.95
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	18	8.95
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	18	8.95
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	18	8.95
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	12	8.95
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	8	8.95
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	2	8.94
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	11	8.94
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	19	8.94
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	5	8.94
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	14	8.93
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	7	8.93
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	12	8.93
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	9	8.91
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	5	8.9
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	5	8.9
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	3	8.89
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	1	8.89
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	5	8.88
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	20	8.88
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	8	8.88
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	15	8.87
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	13	8.87
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	17	8.87
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	3	8.86
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	15	8.85
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	12	8.85
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	17	8.85
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	2	8.85
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	12	8.84
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	8	8.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	18	8.83
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	18	8.83
(1,129)	1:A:28:SER:CB	1:A:53:GLY:H	1	8.83
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	16	8.83
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	3	8.82
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	15	8.81
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	14	8.81
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	8	8.81
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	20	8.81
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	10	8.81
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	10	8.81
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	5	8.8
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	6	8.8
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	14	8.8
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	1	8.79
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	9	8.79
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	18	8.79
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	3	8.79
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	16	8.79
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	15	8.78
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	8	8.77
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	1	8.77
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	5	8.77
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	2	8.77
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	20	8.77
(1,2)	1:A:2:SER:H	1:A:38:CYS:CB	10	8.76
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	3	8.75
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	10	8.75
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	6	8.74
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	6	8.74
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	7	8.74
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	4	8.74
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	1	8.74
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	17	8.73
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	1	8.72
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	2	8.71
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	13	8.71
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	13	8.71
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	2	8.7
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	15	8.7
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	6	8.69
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	20	8.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	8	8.68
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	17	8.68
(1,131)	1:A:28:SER:CB	1:A:55:THR:H	8	8.68
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	7	8.67
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	11	8.67
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	2	8.66
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	7	8.66
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	10	8.65
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	2	8.65
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	7	8.65
(1,348)	1:A:58:SER:CB	1:A:88:TYR:H	10	8.64
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	6	8.62
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	9	8.61
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	6	8.61
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	19	8.61
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	10	8.61
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	19	8.61
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	5	8.6
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	15	8.6
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	18	8.59
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	10	8.58
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	9	8.58
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	16	8.57
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	4	8.57
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	16	8.57
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	6	8.56
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	14	8.56
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	18	8.55
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	9	8.55
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	19	8.55
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	10	8.54
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	5	8.54
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	5	8.54
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	2	8.54
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	5	8.53
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	12	8.53
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	13	8.53
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	20	8.53
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	11	8.52
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	4	8.52
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	19	8.5
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	6	8.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	7	8.49
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	14	8.49
(1,133)	1:A:28:SER:CB	1:A:57:MET:H	14	8.49
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	20	8.48
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	17	8.48
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	13	8.47
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	17	8.47
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	14	8.47
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	15	8.47
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	5	8.47
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	3	8.46
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	13	8.46
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	16	8.45
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	18	8.45
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	3	8.45
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	16	8.45
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	20	8.45
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	3	8.44
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	9	8.44
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	19	8.44
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	14	8.43
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	11	8.42
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	4	8.42
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	19	8.42
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	14	8.41
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	8	8.41
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	3	8.4
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	17	8.4
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	13	8.4
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	4	8.4
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	13	8.39
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	8	8.39
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	10	8.39
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	19	8.38
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	17	8.38
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	15	8.37
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	16	8.36
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	9	8.36
(1,101)	1:A:23:ARG:H	1:A:58:SER:CB	11	8.36
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	9	8.35
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	8	8.35
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	19	8.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	16	8.34
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	16	8.33
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	2	8.32
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	12	8.32
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	2	8.32
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	11	8.32
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	18	8.31
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	10	8.31
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	9	8.31
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	10	8.3
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	2	8.3
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	2	8.3
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	17	8.3
(1,135)	1:A:28:SER:CB	1:A:59:ILE:H	18	8.3
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	7	8.3
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	18	8.28
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	10	8.28
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	12	8.27
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	13	8.27
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	13	8.27
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	10	8.27
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	19	8.27
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	8	8.26
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	5	8.25
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	10	8.24
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	8	8.24
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	11	8.24
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	1	8.24
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	19	8.24
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	14	8.24
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	14	8.24
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	19	8.23
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	20	8.22
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	9	8.22
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	11	8.22
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	14	8.21
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	3	8.21
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	4	8.21
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	11	8.2
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	18	8.2
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	16	8.19
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	16	8.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	7	8.18
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	3	8.18
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	5	8.18
(1,92)	1:A:21:LEU:H	1:A:51:SER:CB	16	8.16
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	20	8.16
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	6	8.14
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	5	8.13
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	18	8.13
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	4	8.13
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	7	8.13
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	7	8.12
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	6	8.1
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	17	8.1
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	11	8.1
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	18	8.09
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	19	8.08
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	2	8.08
(1,103)	1:A:24:LYS:H	1:A:51:SER:CB	11	8.08
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	18	8.07
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	10	8.07
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	9	8.07
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	12	8.07
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	10	8.06
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	4	8.06
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	9	8.06
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	13	8.06
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	11	8.06
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	17	8.06
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	15	8.05
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	10	8.04
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	13	8.03
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	4	8.03
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	10	8.03
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	12	8.03
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	7	8.03
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	5	8.02
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	16	8.02
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	10	8.02
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	2	8.02
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	5	8.02
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	9	8.02
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	13	8.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	16	8.02
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	8	8.02
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	4	8.02
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	9	8.02
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	10	8.02
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	19	8.02
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	2	8.01
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	3	8.01
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	10	8.01
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	11	8.01
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	12	8.01
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	17	8.01
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	8	8.01
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	15	8.01
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	19	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	1	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	3	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	6	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	7	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	11	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	15	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	17	8.01
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	18	8.01
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	10	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	5	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	6	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	11	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	12	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	13	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	15	8.01
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	19	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	1	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	2	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	3	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	5	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	7	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	12	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	13	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	16	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	17	8.01
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	18	8.01
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	12	8.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	17	8.01
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	3	8.01
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	12	8.01
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	3	8.0
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	6	8.0
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	6	8.0
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	9	8.0
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	11	8.0
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	1	8.0
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	4	8.0
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	6	8.0
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	16	8.0
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	7	8.0
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	10	8.0
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	20	8.0
(1,47)	1:A:12:ASP:H	1:A:51:SER:CB	4	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	1	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	4	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	5	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	7	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	8	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	9	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	14	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	15	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	17	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	18	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	19	8.0
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	20	8.0
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	2	8.0
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	11	8.0
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	11	8.0
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	14	8.0
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	4	8.0
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	13	8.0
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	15	8.0
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	10	8.0
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	18	8.0
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	17	8.0
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	8	8.0
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	9	8.0
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	14	8.0
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	18	8.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	6	8.0
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	13	8.0
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	20	8.0
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	20	8.0
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	15	8.0
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	6	8.0
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	7	8.0
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	8	8.0
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	11	8.0
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	19	8.0
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	19	8.0
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	6	8.0
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	9	8.0
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	4	8.0
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	17	8.0
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	2	8.0
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	9	8.0
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	10	8.0
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	16	8.0
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	6	8.0
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	8	8.0
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	14	8.0
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	15	8.0
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	19	8.0
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	20	8.0
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	1	8.0
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	4	8.0
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	5	8.0
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	3	8.0
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	8	8.0
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	10	8.0
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	11	8.0
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	13	8.0
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	19	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	4	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	6	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	7	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	9	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	10	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	11	8.0
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	17	8.0
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	2	8.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	11	8.0
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	15	8.0
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	10	8.0
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	12	8.0
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	18	8.0
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	19	8.0
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	5	8.0
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	12	7.99
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	13	7.99
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	20	7.99
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	18	7.99
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	13	7.99
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	8	7.99
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	4	7.99
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	6	7.99
(1,306)	1:A:51:SER:CB	1:A:88:TYR:H	13	7.99
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	16	7.99
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	2	7.99
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	3	7.99
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	5	7.99
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	14	7.99
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	2	7.99
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	17	7.99
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	15	7.99
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	8	7.98
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	6	7.98
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	10	7.98
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	20	7.98
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	17	7.98
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	19	7.98
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	14	7.98
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	15	7.98
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	7	7.98
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	1	7.98
(1,178)	1:A:30:LEU:H	1:A:58:SER:CB	8	7.98
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	5	7.98
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	1	7.98
(1,15)	1:A:4:ASN:H	1:A:51:SER:CB	8	7.98
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	11	7.98
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	14	7.98
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	6	7.98
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	13	7.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	14	7.97
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	9	7.97
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	11	7.97
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	18	7.97
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	14	7.97
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	1	7.97
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	8	7.97
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	20	7.97
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	2	7.97
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	7	7.96
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	11	7.96
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	5	7.96
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	20	7.96
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	1	7.96
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	20	7.96
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	20	7.96
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	10	7.96
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	3	7.96
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	20	7.96
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	18	7.96
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	20	7.96
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	7	7.95
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	10	7.95
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	5	7.95
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	18	7.95
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	19	7.95
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	4	7.95
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	18	7.95
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	1	7.95
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	3	7.95
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	5	7.94
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	13	7.94
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	8	7.94
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	15	7.94
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	19	7.94
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	10	7.94
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	7	7.94
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	11	7.94
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	7	7.94
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	6	7.94
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	4	7.94
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	15	7.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	12	7.93
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	10	7.93
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	17	7.93
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	1	7.93
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	19	7.93
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	5	7.93
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	11	7.93
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	9	7.93
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	14	7.93
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	1	7.93
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	9	7.93
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	5	7.92
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	20	7.92
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	16	7.92
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	9	7.92
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	7	7.92
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	11	7.92
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	20	7.92
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	4	7.92
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	14	7.92
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	5	7.92
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	20	7.92
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	1	7.92
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	5	7.91
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	9	7.91
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	2	7.91
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	17	7.91
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	16	7.91
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	19	7.91
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	6	7.91
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	16	7.91
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	10	7.91
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	4	7.9
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	4	7.9
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	7	7.9
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	10	7.9
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	12	7.9
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	18	7.9
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	6	7.9
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	9	7.89
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	3	7.89
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	5	7.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	17	7.89
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	14	7.89
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	18	7.89
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	13	7.89
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	13	7.89
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	6	7.89
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	10	7.89
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	20	7.89
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	14	7.88
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	12	7.88
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	15	7.88
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	10	7.88
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	5	7.88
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	11	7.88
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	9	7.88
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	16	7.88
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	2	7.87
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	6	7.87
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	8	7.87
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	16	7.87
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	15	7.87
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	2	7.87
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	3	7.87
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	17	7.87
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	5	7.86
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	12	7.86
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	2	7.86
(1,267)	1:A:43:ALA:H	1:A:86:SER:CB	8	7.86
(1,195)	1:A:35:LEU:H	1:A:86:SER:CB	7	7.86
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	1	7.86
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	12	7.86
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	16	7.86
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	17	7.86
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	14	7.85
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	14	7.85
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	3	7.85
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	17	7.85
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	16	7.85
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	15	7.85
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	7	7.85
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	9	7.85
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	12	7.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,374)	1:A:70:ALA:H	1:A:86:SER:CB	16	7.84
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	20	7.84
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	18	7.84
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	19	7.84
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	18	7.84
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	9	7.84
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	9	7.83
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	12	7.83
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	12	7.83
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	17	7.83
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	1	7.83
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	12	7.83
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	15	7.83
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	11	7.83
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	11	7.83
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	12	7.83
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	8	7.82
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	14	7.82
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	13	7.82
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	14	7.82
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	2	7.82
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	15	7.82
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	8	7.81
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	3	7.81
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	10	7.81
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	15	7.81
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	3	7.81
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	14	7.81
(1,33)	1:A:7:TRP:H	1:A:51:SER:CB	16	7.81
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	10	7.81
(1,307)	1:A:51:SER:CB	1:A:89:VAL:H	9	7.81
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	9	7.81
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	1	7.81
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	13	7.81
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	17	7.81
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	8	7.81
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	15	7.81
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	6	7.8
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	16	7.8
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	13	7.8
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	4	7.8
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	9	7.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	19	7.8
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	14	7.8
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	16	7.8
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	14	7.8
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	9	7.8
(1,187)	1:A:33:ILE:H	1:A:86:SER:CB	11	7.8
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	7	7.8
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	11	7.8
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	15	7.8
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	17	7.8
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	17	7.79
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	5	7.79
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	11	7.79
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	1	7.79
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	18	7.79
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	14	7.79
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	8	7.79
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	1	7.79
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	12	7.79
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	4	7.79
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	7	7.78
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	12	7.78
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	8	7.78
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	15	7.78
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	5	7.78
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	8	7.78
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	16	7.78
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	19	7.78
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	18	7.78
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	5	7.78
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	18	7.77
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	1	7.77
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	3	7.77
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	20	7.77
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	10	7.77
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	11	7.77
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	9	7.76
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	7	7.76
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	4	7.76
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	4	7.76
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	4	7.76
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	2	7.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	3	7.76
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	3	7.76
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	14	7.76
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	11	7.76
(1,128)	1:A:28:SER:CB	1:A:52:ARG:H	1	7.76
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	18	7.75
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	8	7.75
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	1	7.75
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	13	7.75
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	14	7.75
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	20	7.75
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	13	7.75
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	20	7.75
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	10	7.74
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	19	7.74
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	4	7.74
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	18	7.74
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	16	7.74
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	8	7.74
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	6	7.74
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	10	7.74
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	11	7.74
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	3	7.74
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	17	7.74
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	11	7.74
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	18	7.73
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	9	7.73
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	9	7.73
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	10	7.73
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	20	7.73
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	11	7.73
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	2	7.72
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	4	7.72
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	5	7.72
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	3	7.72
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	12	7.72
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	7	7.72
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	18	7.72
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	6	7.72
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	16	7.72
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	10	7.72
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	4	7.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	10	7.71
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	13	7.71
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	10	7.71
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	15	7.7
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	6	7.7
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	1	7.7
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	3	7.7
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	9	7.7
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	12	7.7
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	1	7.7
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	16	7.7
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	1	7.7
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	7	7.69
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	4	7.69
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	5	7.69
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	7	7.69
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	8	7.69
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	3	7.69
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	5	7.69
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	9	7.69
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	4	7.68
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	13	7.68
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	20	7.68
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	19	7.68
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	4	7.68
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	8	7.68
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	8	7.68
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	14	7.68
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	1	7.67
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	3	7.67
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	4	7.67
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	18	7.67
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	15	7.66
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	5	7.66
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	17	7.66
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	6	7.66
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	16	7.66
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	16	7.65
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	13	7.65
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	8	7.65
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	13	7.65
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	7	7.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	6	7.65
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	3	7.65
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	7	7.65
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	15	7.65
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	12	7.65
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	6	7.64
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	20	7.64
(1,347)	1:A:58:SER:CB	1:A:87:ASP:H	9	7.64
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	9	7.64
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	7	7.64
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	10	7.64
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	15	7.64
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	10	7.63
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	4	7.63
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	18	7.63
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	20	7.63
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	1	7.63
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	5	7.63
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	6	7.63
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	4	7.63
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	11	7.62
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	2	7.62
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	14	7.62
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	8	7.62
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	7	7.62
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	4	7.61
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	8	7.61
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	20	7.61
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	2	7.61
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	7	7.61
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	2	7.61
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	19	7.61
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	20	7.61
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	16	7.61
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	6	7.6
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	11	7.6
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	7	7.6
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	7	7.6
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	7	7.6
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	19	7.6
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	9	7.6
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	5	7.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	10	7.6
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	15	7.6
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	17	7.59
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	19	7.59
(1,27)	1:A:6:ARG:H	1:A:51:SER:CB	8	7.59
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	5	7.59
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	20	7.59
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	4	7.59
(1,71)	1:A:17:VAL:H	1:A:51:SER:CB	16	7.58
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	8	7.58
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	10	7.58
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	18	7.58
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	7	7.58
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	18	7.58
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	13	7.57
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	15	7.57
(1,371)	1:A:67:ALA:H	1:A:86:SER:CB	19	7.57
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	7	7.57
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	13	7.57
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	8	7.57
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	13	7.56
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	16	7.56
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	10	7.56
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	3	7.56
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	12	7.56
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	17	7.56
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	4	7.56
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	7	7.55
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	18	7.55
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	1	7.55
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	13	7.55
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	15	7.55
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	2	7.55
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	3	7.55
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	16	7.55
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	1	7.54
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	15	7.54
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	13	7.54
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	3	7.54
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	2	7.54
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	19	7.54
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	17	7.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	20	7.54
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	13	7.54
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	4	7.54
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	5	7.54
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	5	7.54
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	6	7.53
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	1	7.53
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	11	7.53
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	14	7.53
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	16	7.53
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	9	7.53
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	3	7.53
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	2	7.52
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	14	7.52
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	18	7.52
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	2	7.52
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	17	7.51
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	15	7.51
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	9	7.51
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	6	7.51
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	2	7.51
(1,269)	1:A:44:TYR:H	1:A:86:SER:CB	12	7.51
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	15	7.51
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	17	7.51
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	12	7.51
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	20	7.51
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	16	7.5
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	14	7.5
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	16	7.5
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	1	7.5
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	12	7.5
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	15	7.5
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	20	7.5
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	7	7.49
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	12	7.49
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	15	7.49
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	3	7.49
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	2	7.49
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	15	7.49
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	18	7.49
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	12	7.49
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	19	7.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	20	7.49
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	19	7.49
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	5	7.49
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	1	7.48
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	16	7.48
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	19	7.47
(1,9)	1:A:3:ALA:H	1:A:51:SER:CB	16	7.47
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	15	7.47
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	11	7.47
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	5	7.47
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	1	7.47
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	2	7.47
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	5	7.47
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	2	7.47
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	9	7.46
(1,373)	1:A:69:GLN:H	1:A:86:SER:CB	17	7.46
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	2	7.46
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	15	7.46
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	2	7.46
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	19	7.46
(1,181)	1:A:31:VAL:H	1:A:58:SER:CB	8	7.46
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	6	7.45
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	4	7.45
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	2	7.45
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	19	7.44
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	12	7.44
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	8	7.44
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	4	7.44
(1,87)	1:A:20:LYS:H	1:A:58:SER:CB	20	7.43
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	14	7.43
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	12	7.43
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	18	7.43
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	9	7.43
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	3	7.43
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	6	7.43
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	7	7.43
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	17	7.43
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	14	7.43
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	7	7.43
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	12	7.42
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	6	7.42
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	11	7.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	16	7.42
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	14	7.42
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	17	7.42
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	7	7.42
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	16	7.41
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	4	7.41
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	13	7.41
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	4	7.41
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	19	7.41
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	14	7.41
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	15	7.41
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	14	7.41
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	1	7.41
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	18	7.41
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	5	7.41
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	14	7.4
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	13	7.4
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	2	7.4
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	15	7.4
(1,280)	1:A:48:ARG:H	1:A:86:SER:CB	1	7.4
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	14	7.4
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	11	7.4
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	14	7.4
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	3	7.39
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	3	7.39
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	15	7.39
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	19	7.39
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	16	7.39
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	4	7.39
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	6	7.39
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	3	7.39
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	13	7.38
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	16	7.38
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	6	7.38
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	3	7.38
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	3	7.38
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	17	7.38
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	2	7.38
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	17	7.37
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	1	7.37
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	13	7.37
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	4	7.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	18	7.37
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	19	7.36
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	17	7.36
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	17	7.36
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	4	7.36
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	2	7.36
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	12	7.36
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	13	7.36
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	5	7.36
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	13	7.36
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	12	7.35
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	6	7.35
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	18	7.35
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	20	7.35
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	20	7.35
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	15	7.35
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	10	7.35
(1,97)	1:A:22:LEU:H	1:A:58:SER:CB	9	7.34
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	1	7.34
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	17	7.34
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	1	7.34
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	1	7.34
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	6	7.34
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	17	7.34
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	15	7.34
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	6	7.34
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	8	7.34
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	17	7.33
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	20	7.33
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	11	7.33
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	12	7.33
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	10	7.33
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	18	7.33
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	8	7.33
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	13	7.33
(1,137)	1:A:28:SER:CB	1:A:61:LEU:H	2	7.33
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	1	7.32
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	16	7.32
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	1	7.32
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	6	7.32
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	10	7.32
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	1	7.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	19	7.32
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	12	7.31
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	8	7.31
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	1	7.31
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	4	7.31
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	2	7.31
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	18	7.31
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	1	7.3
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	12	7.3
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	17	7.3
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	9	7.3
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	4	7.3
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	12	7.29
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	2	7.29
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	15	7.29
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	14	7.29
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	19	7.29
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	17	7.29
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	9	7.29
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	14	7.29
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	6	7.29
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	4	7.28
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	16	7.28
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	1	7.28
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	12	7.28
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	16	7.28
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	6	7.28
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	18	7.28
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	2	7.28
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	12	7.28
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	20	7.28
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	14	7.28
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	7	7.28
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	18	7.27
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	8	7.27
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	10	7.27
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	6	7.27
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	19	7.27
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	15	7.27
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	12	7.26
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	18	7.26
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	1	7.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	11	7.26
(1,279)	1:A:47:TYR:H	1:A:86:SER:CB	13	7.26
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	6	7.26
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	6	7.26
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	15	7.25
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	7	7.25
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	12	7.25
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	20	7.25
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	13	7.25
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	11	7.25
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	7	7.25
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	8	7.25
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	2	7.25
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	16	7.24
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	9	7.24
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	19	7.24
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	2	7.24
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	20	7.24
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	3	7.24
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	18	7.23
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	3	7.23
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	14	7.23
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	10	7.23
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	6	7.23
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	11	7.22
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	17	7.22
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	1	7.22
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	8	7.22
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	2	7.22
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	11	7.22
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	19	7.22
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	18	7.21
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	10	7.21
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	18	7.21
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	10	7.21
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	5	7.21
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	9	7.21
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	20	7.21
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	13	7.21
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	11	7.2
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	4	7.2
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	12	7.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	11	7.2
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	5	7.2
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	13	7.2
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	17	7.2
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	14	7.2
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	5	7.2
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	4	7.19
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	18	7.19
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	20	7.19
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	20	7.19
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	2	7.19
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	9	7.18
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	4	7.18
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	10	7.18
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	13	7.18
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	16	7.18
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	7	7.17
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	6	7.17
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	15	7.17
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	20	7.17
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	20	7.17
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	9	7.17
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	13	7.17
(1,126)	1:A:28:SER:CB	1:A:51:SER:H	8	7.17
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	4	7.16
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	12	7.16
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	4	7.16
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	7	7.16
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	3	7.16
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	19	7.16
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	20	7.16
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	6	7.15
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	14	7.15
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	17	7.15
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	14	7.15
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	10	7.15
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	18	7.15
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	5	7.14
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	8	7.14
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	11	7.14
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	11	7.14
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	20	7.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	4	7.14
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	5	7.14
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	9	7.14
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	2	7.13
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	7	7.13
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	11	7.13
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	18	7.13
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	1	7.13
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	17	7.13
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	7	7.13
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	20	7.13
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	4	7.12
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	11	7.12
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	16	7.12
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	17	7.12
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	12	7.12
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	18	7.12
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	1	7.12
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	2	7.12
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	10	7.11
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	12	7.11
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	6	7.11
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	8	7.1
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	15	7.1
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	3	7.1
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	17	7.1
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	14	7.1
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	9	7.1
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	1	7.1
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	18	7.1
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	7	7.1
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	7	7.1
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	6	7.1
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	15	7.1
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	12	7.1
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	10	7.09
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	14	7.09
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	4	7.09
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	10	7.09
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	20	7.09
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	14	7.09
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	13	7.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	14	7.08
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	19	7.08
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	18	7.08
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	15	7.08
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	16	7.08
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	9	7.07
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	3	7.07
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	14	7.07
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	2	7.07
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	15	7.07
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	9	7.06
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	15	7.06
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	15	7.06
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	12	7.06
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	16	7.06
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	8	7.06
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	11	7.06
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	13	7.06
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	3	7.06
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	12	7.06
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	17	7.06
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	3	7.05
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	13	7.05
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	4	7.05
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	13	7.05
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	11	7.05
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	15	7.05
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	18	7.05
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	1	7.05
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	10	7.04
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	7	7.04
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	4	7.04
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	10	7.04
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	20	7.04
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	12	7.04
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	3	7.04
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	18	7.03
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	5	7.03
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	13	7.03
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	18	7.03
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	5	7.03
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	20	7.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	1	7.03
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	19	7.03
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	10	7.03
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	14	7.03
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	12	7.03
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	8	7.02
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	4	7.02
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	9	7.02
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	8	7.02
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	12	7.02
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	2	7.02
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	18	7.02
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	5	7.02
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	3	7.02
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	6	7.01
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	12	7.01
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	11	7.01
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	12	7.01
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	12	7.01
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	20	7.01
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	8	7.01
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	11	7.01
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	15	7.0
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	3	7.0
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	12	7.0
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	6	7.0
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	18	7.0
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	2	7.0
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	17	6.99
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	18	6.99
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	18	6.99
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	18	6.99
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	19	6.99
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	1	6.99
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	20	6.99
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	12	6.99
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	1	6.99
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	2	6.99
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	18	6.99
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	4	6.98
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	5	6.98
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	4	6.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	13	6.98
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	7	6.98
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	11	6.98
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	1	6.98
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	10	6.98
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	9	6.98
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	3	6.97
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	11	6.97
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	14	6.97
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	17	6.97
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	17	6.97
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	9	6.97
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	14	6.97
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	20	6.97
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	3	6.97
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	19	6.96
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	20	6.96
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	7	6.96
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	4	6.96
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	15	6.96
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	17	6.96
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	15	6.96
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	13	6.96
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	9	6.96
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	16	6.96
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	10	6.95
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	18	6.95
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	18	6.95
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	19	6.95
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	10	6.95
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	15	6.95
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	7	6.94
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	19	6.94
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	16	6.94
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	3	6.94
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	7	6.94
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	15	6.94
(1,78)	1:A:18:SER:H	1:A:58:SER:CB	9	6.93
(1,377)	1:A:71:CYS:CB	1:A:82:TYR:H	19	6.93
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	1	6.93
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	11	6.93
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	15	6.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:A:15:ASP:H	1:A:51:SER:CB	8	6.92
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	15	6.92
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	9	6.92
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	19	6.92
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	14	6.92
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	17	6.92
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	7	6.91
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	2	6.91
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	7	6.91
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	3	6.91
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	16	6.91
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	3	6.91
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	12	6.91
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	14	6.91
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	7	6.91
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	12	6.9
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	4	6.9
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	16	6.9
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	1	6.9
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	15	6.89
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	14	6.89
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	11	6.89
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	18	6.89
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	16	6.89
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	4	6.89
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	14	6.88
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	16	6.88
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	2	6.88
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	4	6.88
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	13	6.88
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	10	6.88
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	20	6.88
(1,107)	1:A:25:THR:H	1:A:51:SER:CB	10	6.88
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	6	6.87
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	17	6.87
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	2	6.87
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	7	6.87
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	18	6.87
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	11	6.86
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	3	6.86
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	14	6.86
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	4	6.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	19	6.86
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	6	6.86
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	13	6.86
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	1	6.86
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	19	6.86
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	2	6.85
(1,65)	1:A:16:CYS:H	1:A:51:SER:CB	10	6.85
(1,53)	1:A:13:ASP:H	1:A:51:SER:CB	4	6.85
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	9	6.85
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	20	6.85
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	5	6.85
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	16	6.85
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	16	6.85
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	1	6.85
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	3	6.85
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	10	6.85
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	8	6.85
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	8	6.84
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	12	6.84
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	2	6.84
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	10	6.84
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	14	6.84
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	8	6.84
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	4	6.84
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	18	6.84
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	19	6.84
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	15	6.83
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	10	6.83
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	9	6.83
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	17	6.83
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	19	6.83
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	10	6.83
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	8	6.83
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	1	6.83
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	1	6.82
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	2	6.82
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	7	6.82
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	16	6.82
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	13	6.82
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	12	6.82
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	15	6.82
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	19	6.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	12	6.82
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	17	6.82
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	6	6.81
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	12	6.81
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	8	6.81
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	19	6.81
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	16	6.81
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	10	6.81
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	11	6.81
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	7	6.8
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	1	6.8
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	2	6.8
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	14	6.8
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	2	6.8
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	9	6.8
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	20	6.8
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	11	6.8
(1,136)	1:A:28:SER:CB	1:A:60:HIS:H	2	6.8
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	20	6.79
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	7	6.79
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	2	6.79
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	6	6.79
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	19	6.79
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	14	6.79
(1,20)	1:A:5:ARG:H	1:A:38:CYS:CB	10	6.79
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	15	6.79
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	6	6.79
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	1	6.78
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	13	6.78
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	11	6.78
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	18	6.78
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	1	6.78
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	7	6.78
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	11	6.77
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	16	6.77
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	2	6.77
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	1	6.77
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	2	6.77
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	3	6.77
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	11	6.77
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	18	6.77
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	12	6.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	13	6.77
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	5	6.77
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	12	6.76
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	9	6.76
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	5	6.76
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	9	6.76
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	5	6.75
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	4	6.75
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	14	6.75
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	16	6.75
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	9	6.75
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	12	6.75
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	17	6.75
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	6	6.75
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	4	6.74
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	20	6.74
(1,385)	1:A:71:CYS:CB	1:A:89:VAL:H	14	6.74
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	11	6.74
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	12	6.74
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	4	6.74
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	6	6.74
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	14	6.74
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	6	6.74
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	5	6.74
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	10	6.74
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	8	6.74
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	17	6.73
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	12	6.73
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	2	6.73
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	20	6.73
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	3	6.72
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	20	6.72
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	10	6.72
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	17	6.72
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	9	6.72
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	8	6.72
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	6	6.72
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	7	6.71
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	7	6.71
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	1	6.71
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	18	6.71
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	3	6.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	18	6.71
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	8	6.71
(1,177)	1:A:30:LEU:H	1:A:51:SER:CB	14	6.71
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	2	6.71
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	15	6.71
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	11	6.71
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	12	6.71
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	9	6.71
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	6	6.7
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	6	6.7
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	5	6.7
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	5	6.7
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	11	6.7
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	19	6.7
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	19	6.7
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	7	6.69
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	4	6.69
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	19	6.69
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	2	6.69
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	19	6.69
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	4	6.69
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	9	6.69
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	3	6.69
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	20	6.69
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	7	6.69
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	15	6.69
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	15	6.68
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	20	6.68
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	11	6.68
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	20	6.68
(1,346)	1:A:58:SER:H	1:A:86:SER:CB	2	6.68
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	16	6.68
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	12	6.68
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	20	6.68
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	19	6.68
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	5	6.68
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	11	6.68
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	18	6.67
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	1	6.67
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	9	6.67
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	3	6.67
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	17	6.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	10	6.67
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	1	6.67
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	12	6.66
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	6	6.66
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	7	6.66
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	14	6.66
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	16	6.66
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	13	6.66
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	2	6.66
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	8	6.66
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	17	6.65
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	6	6.65
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	2	6.65
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	4	6.65
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	3	6.65
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	20	6.65
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	14	6.65
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	1	6.64
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	5	6.64
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	4	6.64
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	17	6.64
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	6	6.64
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	13	6.64
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	14	6.63
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	5	6.63
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	1	6.63
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	7	6.63
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	6	6.63
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	10	6.63
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	13	6.63
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	11	6.63
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	15	6.63
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	13	6.63
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	18	6.62
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	12	6.62
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	11	6.62
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	5	6.62
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	7	6.62
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	11	6.62
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	18	6.62
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	2	6.62
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	15	6.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	18	6.62
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	2	6.61
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	17	6.61
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	19	6.61
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	1	6.61
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	4	6.61
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	13	6.61
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	15	6.61
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	20	6.61
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	1	6.61
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	4	6.61
(1,257)	1:A:40:VAL:H	1:A:71:CYS:CB	15	6.61
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	11	6.61
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	17	6.61
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	5	6.61
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	20	6.61
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	17	6.61
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	19	6.61
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	19	6.61
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	10	6.61
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	10	6.6
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	14	6.6
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	9	6.6
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	15	6.6
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	4	6.6
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	1	6.6
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	7	6.6
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	3	6.6
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	3	6.6
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	7	6.6
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	14	6.59
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	1	6.59
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	16	6.59
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	19	6.59
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	9	6.59
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	19	6.59
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	19	6.59
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	14	6.59
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	3	6.58
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	18	6.58
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	14	6.58
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	8	6.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	4	6.58
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	7	6.58
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	12	6.58
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	7	6.58
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	10	6.58
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	11	6.57
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	3	6.57
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	17	6.57
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	6	6.57
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	12	6.57
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	11	6.57
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	19	6.57
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	12	6.57
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	8	6.57
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	16	6.57
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	10	6.57
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	15	6.56
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	10	6.56
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	1	6.56
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	9	6.56
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	18	6.56
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	2	6.56
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	8	6.55
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	2	6.55
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	17	6.55
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	20	6.55
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	11	6.55
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	4	6.55
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	18	6.55
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	5	6.55
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	10	6.55
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	15	6.55
(1,166)	1:A:28:SER:CB	1:A:90:LYS:H	12	6.55
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	1	6.55
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	1	6.55
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	4	6.54
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	4	6.54
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	5	6.54
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	15	6.54
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	15	6.54
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	12	6.54
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	8	6.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	20	6.54
(1,52)	1:A:13:ASP:H	1:A:38:CYS:CB	1	6.53
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	20	6.53
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	13	6.53
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	7	6.53
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	3	6.53
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	2	6.53
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	18	6.53
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	19	6.53
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	5	6.53
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	13	6.53
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	10	6.53
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	11	6.52
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	16	6.52
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	8	6.52
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	18	6.52
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	7	6.52
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	8	6.52
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	16	6.52
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	1	6.52
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	4	6.52
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	4	6.52
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	4	6.52
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	7	6.51
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	5	6.51
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	4	6.51
(1,203)	1:A:38:CYS:CB	1:A:49:LEU:H	18	6.51
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	16	6.51
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	14	6.51
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	10	6.51
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	18	6.5
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	15	6.5
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	13	6.5
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	9	6.5
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	7	6.5
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	5	6.5
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	11	6.5
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	1	6.5
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	19	6.5
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	1	6.49
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	20	6.49
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	16	6.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,197)	1:A:36:GLY:H	1:A:71:CYS:CB	17	6.49
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	4	6.49
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	9	6.48
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	10	6.48
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	7	6.48
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	2	6.48
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	13	6.48
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	18	6.48
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	1	6.48
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	1	6.48
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	5	6.47
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	5	6.47
(1,58)	1:A:14:GLU:H	1:A:51:SER:CB	8	6.47
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	2	6.47
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	17	6.47
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	7	6.47
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	5	6.47
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	13	6.47
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	5	6.47
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	17	6.47
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	16	6.46
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	12	6.46
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	11	6.46
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	3	6.46
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	3	6.46
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	20	6.45
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	9	6.45
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	10	6.45
(1,74)	1:A:17:VAL:H	1:A:86:SER:CB	2	6.44
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	9	6.44
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	2	6.44
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	12	6.44
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	16	6.44
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	4	6.44
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	15	6.44
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	19	6.44
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	2	6.43
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	6	6.43
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	9	6.43
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	13	6.43
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	4	6.43
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	5	6.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	1	6.42
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	3	6.42
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	6	6.42
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	2	6.42
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	16	6.42
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	8	6.42
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	18	6.42
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	3	6.41
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	18	6.41
(1,41)	1:A:9:VAL:H	1:A:51:SER:CB	10	6.41
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	13	6.41
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	10	6.41
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	20	6.41
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	17	6.41
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	13	6.4
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	3	6.4
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	19	6.4
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	20	6.4
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	20	6.4
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	7	6.4
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	20	6.4
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	1	6.4
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	12	6.4
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	17	6.4
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	8	6.4
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	6	6.4
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	10	6.4
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	12	6.39
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	9	6.39
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	17	6.39
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	1	6.39
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	9	6.39
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	18	6.39
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	19	6.39
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	13	6.39
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	15	6.39
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	12	6.39
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	4	6.38
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	3	6.38
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	13	6.38
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	8	6.38
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	20	6.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	11	6.38
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	19	6.37
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	19	6.37
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	15	6.37
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	1	6.37
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	16	6.37
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	10	6.37
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	8	6.36
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	10	6.36
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	5	6.36
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	1	6.36
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	1	6.36
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	17	6.36
(1,305)	1:A:51:SER:CB	1:A:87:ASP:H	13	6.36
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	6	6.36
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	16	6.36
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	8	6.36
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	2	6.36
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	7	6.36
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	7	6.36
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	6	6.35
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	13	6.35
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	19	6.35
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	2	6.35
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	9	6.35
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	11	6.35
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	7	6.35
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	16	6.35
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	1	6.34
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	19	6.34
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	1	6.34
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	11	6.34
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	14	6.34
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	3	6.34
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	8	6.34
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	6	6.34
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	20	6.34
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	13	6.34
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	1	6.34
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	7	6.33
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	11	6.33
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	17	6.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	7	6.33
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	5	6.33
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	8	6.33
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	12	6.33
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	17	6.33
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	6	6.33
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	2	6.33
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	18	6.33
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	17	6.33
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	3	6.33
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	16	6.33
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	2	6.33
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	8	6.32
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	20	6.32
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	14	6.32
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	11	6.32
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	7	6.32
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	18	6.32
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	19	6.32
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	3	6.32
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	3	6.32
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	7	6.32
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	4	6.32
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	20	6.32
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	9	6.32
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	14	6.32
(1,148)	1:A:28:SER:CB	1:A:72:ALA:H	9	6.32
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	11	6.32
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	12	6.31
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	19	6.31
(1,376)	1:A:71:CYS:CB	1:A:81:VAL:H	16	6.31
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	6	6.31
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	16	6.3
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	11	6.3
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	13	6.3
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	1	6.3
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	4	6.3
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	1	6.29
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	1	6.29
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	2	6.29
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	7	6.29
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	8	6.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	11	6.29
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	13	6.29
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	7	6.29
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	2	6.29
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	17	6.29
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	9	6.29
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	18	6.29
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	17	6.29
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	5	6.29
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	19	6.29
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	5	6.28
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	9	6.28
(1,282)	1:A:49:LEU:H	1:A:86:SER:CB	4	6.28
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	6	6.28
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	18	6.28
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	13	6.28
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	19	6.28
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	10	6.27
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	4	6.27
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	14	6.27
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	20	6.27
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	8	6.27
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	15	6.27
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	11	6.27
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	7	6.27
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	1	6.27
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	6	6.27
(1,119)	1:A:28:SER:H	1:A:38:CYS:CB	8	6.27
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	10	6.26
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	6	6.26
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	8	6.26
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	12	6.26
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	14	6.26
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	4	6.26
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	5	6.25
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	10	6.25
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	15	6.25
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	7	6.25
(1,241)	1:A:38:CYS:CB	1:A:87:ASP:H	3	6.25
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	5	6.25
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	2	6.25
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	3	6.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	4	6.25
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	5	6.24
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	11	6.24
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	3	6.24
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	7	6.24
(1,334)	1:A:58:SER:CB	1:A:74:GLY:H	18	6.24
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	3	6.24
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	13	6.24
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	12	6.24
(1,229)	1:A:38:CYS:CB	1:A:73:VAL:H	15	6.24
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	13	6.23
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	2	6.23
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	3	6.23
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	17	6.23
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	12	6.23
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	12	6.23
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	2	6.23
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	3	6.22
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	1	6.22
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	7	6.22
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	8	6.22
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	16	6.22
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	17	6.22
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	9	6.22
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	8	6.22
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	13	6.22
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	11	6.22
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	5	6.21
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	18	6.21
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	6	6.21
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	16	6.21
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	8	6.21
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	13	6.21
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	4	6.21
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	3	6.21
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	12	6.21
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	14	6.21
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	7	6.21
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	18	6.21
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	10	6.2
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	15	6.2
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	6	6.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	4	6.2
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	12	6.2
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	20	6.2
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	19	6.2
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	2	6.2
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	4	6.2
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	4	6.2
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	19	6.2
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	7	6.2
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	17	6.2
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	12	6.19
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	17	6.19
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	19	6.19
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	10	6.19
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	4	6.19
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	15	6.19
(1,186)	1:A:33:ILE:H	1:A:71:CYS:CB	9	6.19
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	9	6.19
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	1	6.18
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	8	6.18
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	20	6.18
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	6	6.18
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	14	6.18
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	16	6.18
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	6	6.18
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	1	6.18
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	16	6.18
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	14	6.18
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	13	6.18
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	18	6.17
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	9	6.17
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	18	6.17
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	17	6.17
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	19	6.17
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	3	6.17
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	10	6.17
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	5	6.17
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	18	6.17
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	15	6.17
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	4	6.16
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	2	6.16
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	10	6.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	12	6.16
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	11	6.16
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	19	6.16
(1,8)	1:A:3:ALA:H	1:A:38:CYS:CB	10	6.15
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	6	6.15
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	18	6.15
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	20	6.15
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	20	6.15
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	12	6.15
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	6	6.15
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	19	6.14
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	12	6.14
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	11	6.14
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	12	6.14
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	12	6.14
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	6	6.14
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	3	6.13
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	7	6.13
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	17	6.13
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	8	6.13
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	14	6.13
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	16	6.13
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	16	6.12
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	12	6.12
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	20	6.12
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	6	6.12
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	14	6.12
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	14	6.11
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	8	6.11
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	9	6.11
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	11	6.11
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	1	6.11
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	12	6.11
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	5	6.11
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	19	6.11
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	5	6.11
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	4	6.11
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	13	6.1
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	3	6.1
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	11	6.1
(1,110)	1:A:26:ARG:H	1:A:51:SER:CB	10	6.1
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	9	6.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:A:21:LEU:H	1:A:58:SER:CB	16	6.09
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	20	6.09
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	2	6.09
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	1	6.09
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	8	6.09
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	19	6.09
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	11	6.09
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	14	6.09
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	17	6.09
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	1	6.08
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	3	6.08
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	11	6.08
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	15	6.08
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	19	6.08
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	20	6.08
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	1	6.08
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	7	6.08
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	17	6.08
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	11	6.08
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	3	6.08
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	5	6.08
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	7	6.07
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	20	6.07
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	12	6.07
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	2	6.07
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	12	6.07
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	2	6.07
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	2	6.07
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	11	6.07
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	11	6.07
(1,165)	1:A:28:SER:CB	1:A:89:VAL:H	16	6.07
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	11	6.07
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	11	6.06
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	16	6.06
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	9	6.06
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	10	6.06
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	16	6.06
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	20	6.06
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	15	6.06
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	14	6.06
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	11	6.06
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	9	6.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	15	6.06
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	7	6.06
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	5	6.06
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	7	6.05
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	4	6.05
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	12	6.05
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	11	6.05
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	13	6.05
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	8	6.05
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	6	6.05
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	6	6.05
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	8	6.05
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	10	6.04
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	16	6.04
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	20	6.04
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	12	6.04
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	20	6.04
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	4	6.04
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	16	6.04
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	11	6.04
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	10	6.04
(1,104)	1:A:24:LYS:H	1:A:58:SER:CB	11	6.04
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	2	6.03
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	15	6.03
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	16	6.03
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	3	6.03
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	6	6.03
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	5	6.03
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	5	6.02
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	12	6.02
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	11	6.02
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	4	6.02
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	15	6.02
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	10	6.02
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	1	6.02
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	10	6.02
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	20	6.02
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	15	6.01
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	9	6.01
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	7	6.01
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	12	6.01
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	5	6.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	19	6.0
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	11	6.0
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	13	6.0
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	19	6.0
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	15	6.0
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	6	6.0
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	15	6.0
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	2	6.0
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	16	6.0
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	2	5.99
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	10	5.99
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	1	5.99
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	13	5.99
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	15	5.99
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	7	5.99
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	18	5.99
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	1	5.99
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	19	5.99
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	20	5.99
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	16	5.98
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	2	5.98
(1,273)	1:A:45:ARG:H	1:A:86:SER:CB	5	5.98
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	20	5.98
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	4	5.98
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	4	5.98
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	10	5.97
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	16	5.97
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	13	5.97
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	13	5.97
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	5	5.97
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	15	5.97
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	14	5.97
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	1	5.97
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	20	5.96
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	17	5.96
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	10	5.96
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	18	5.96
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	4	5.96
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	6	5.96
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	11	5.96
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	9	5.96
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	11	5.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	2	5.96
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	15	5.96
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	20	5.95
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	5	5.95
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	17	5.95
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	3	5.95
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	1	5.95
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	17	5.95
(1,111)	1:A:26:ARG:H	1:A:58:SER:CB	10	5.95
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	6	5.95
(1,3)	1:A:2:SER:H	1:A:51:SER:CB	16	5.94
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	18	5.94
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	20	5.94
(1,202)	1:A:38:CYS:CB	1:A:48:ARG:H	14	5.94
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	16	5.94
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	6	5.93
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	11	5.93
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	3	5.93
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	7	5.93
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	6	5.93
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	6	5.93
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	20	5.92
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	6	5.92
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	11	5.92
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	2	5.92
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	1	5.92
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	19	5.92
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	19	5.92
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	4	5.92
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	15	5.92
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	15	5.92
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	1	5.91
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	16	5.91
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	5	5.91
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	17	5.91
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	10	5.91
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	20	5.91
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	13	5.91
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	16	5.91
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	6	5.9
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	1	5.9
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	15	5.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	3	5.9
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	7	5.9
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	5	5.9
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	12	5.9
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	8	5.9
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	1	5.9
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	20	5.9
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	2	5.89
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	20	5.89
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	13	5.89
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	15	5.89
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	14	5.89
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	8	5.89
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	3	5.89
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	3	5.89
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	11	5.89
(1,152)	1:A:28:SER:CB	1:A:76:ILE:H	9	5.89
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	10	5.89
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	19	5.89
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	16	5.88
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	12	5.88
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	18	5.88
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	14	5.88
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	16	5.88
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	12	5.87
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	1	5.87
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	3	5.87
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	3	5.87
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	16	5.87
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	3	5.87
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	19	5.87
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	15	5.87
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	7	5.87
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	16	5.87
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	19	5.87
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	8	5.86
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	14	5.86
(1,382)	1:A:71:CYS:H	1:A:86:SER:CB	14	5.86
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	7	5.86
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	4	5.86
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	15	5.86
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	6	5.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	16	5.86
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	15	5.86
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	18	5.86
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	12	5.85
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	1	5.85
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	18	5.85
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	19	5.85
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	14	5.85
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	12	5.85
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	20	5.85
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	3	5.85
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	12	5.84
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	13	5.84
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	3	5.84
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	10	5.84
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	8	5.84
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	17	5.84
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	2	5.84
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	9	5.84
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	8	5.84
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	2	5.84
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	9	5.84
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	1	5.83
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	19	5.83
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	19	5.83
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	4	5.83
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	13	5.83
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	7	5.83
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	7	5.83
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	7	5.83
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	3	5.83
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	3	5.83
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	8	5.83
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	7	5.83
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	3	5.83
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	4	5.82
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	10	5.82
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	9	5.82
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	8	5.82
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	14	5.82
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	9	5.82
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	16	5.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	5	5.82
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	6	5.82
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	19	5.81
(1,91)	1:A:21:LEU:H	1:A:38:CYS:CB	11	5.81
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	4	5.81
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	4	5.81
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	1	5.81
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	13	5.81
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	13	5.81
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	6	5.81
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	4	5.81
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	8	5.81
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	9	5.81
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	1	5.81
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	11	5.8
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	10	5.8
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	1	5.8
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	3	5.8
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	5	5.8
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	19	5.8
(1,164)	1:A:28:SER:CB	1:A:88:TYR:H	16	5.8
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	19	5.8
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	1	5.8
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	7	5.79
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	16	5.79
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	7	5.79
(1,389)	1:A:71:CYS:CB	1:A:93:ALA:H	6	5.79
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	13	5.79
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	20	5.79
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	19	5.79
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	1	5.79
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	15	5.79
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	13	5.79
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	20	5.79
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	14	5.79
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	1	5.78
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	16	5.78
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	4	5.78
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	17	5.78
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	2	5.78
(1,90)	1:A:21:LEU:H	1:A:28:SER:CB	20	5.77
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	11	5.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	12	5.77
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	20	5.77
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	11	5.77
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	8	5.77
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	13	5.77
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	13	5.77
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	7	5.76
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	5	5.76
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	3	5.76
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	12	5.76
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	9	5.76
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	9	5.76
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	5	5.76
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	7	5.76
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	10	5.75
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	3	5.75
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	14	5.75
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	11	5.75
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	12	5.75
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	10	5.75
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	18	5.75
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	8	5.75
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	3	5.75
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	9	5.74
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	3	5.74
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	15	5.74
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	13	5.74
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	18	5.74
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	16	5.74
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	9	5.74
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	20	5.74
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	3	5.73
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	16	5.73
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	15	5.73
(1,372)	1:A:68:ALA:H	1:A:86:SER:CB	14	5.73
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	7	5.73
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	2	5.73
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	3	5.73
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	3	5.73
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	2	5.72
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	6	5.72
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	4	5.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	13	5.72
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	3	5.72
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	19	5.72
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	10	5.72
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	12	5.72
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	4	5.72
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	17	5.72
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	13	5.71
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	3	5.71
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	14	5.71
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	20	5.71
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	16	5.71
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	9	5.71
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	6	5.71
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	2	5.71
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	5	5.7
(1,32)	1:A:7:TRP:H	1:A:38:CYS:CB	5	5.7
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	13	5.7
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	7	5.7
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	14	5.7
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	7	5.69
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	1	5.69
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	20	5.69
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	20	5.69
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	13	5.69
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	2	5.69
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	5	5.69
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	2	5.69
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	12	5.69
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	18	5.69
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	14	5.69
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	17	5.69
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	1	5.68
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	8	5.68
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	5	5.68
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	3	5.68
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	7	5.68
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	11	5.68
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	13	5.68
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	12	5.68
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	8	5.68
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	20	5.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	8	5.67
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	4	5.67
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	8	5.67
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	6	5.67
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	11	5.67
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	9	5.67
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	9	5.67
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	10	5.67
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	20	5.67
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	12	5.67
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	6	5.66
(1,61)	1:A:15:ASP:H	1:A:38:CYS:CB	19	5.66
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	11	5.66
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	16	5.66
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	17	5.66
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	11	5.66
(1,242)	1:A:38:CYS:CB	1:A:88:TYR:H	3	5.66
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	3	5.66
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	8	5.66
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	11	5.66
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	9	5.66
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	5	5.66
(1,180)	1:A:31:VAL:H	1:A:51:SER:CB	14	5.66
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	12	5.66
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	2	5.66
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	7	5.66
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	11	5.66
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	16	5.65
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	1	5.65
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	4	5.65
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	2	5.65
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	17	5.65
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	20	5.65
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	10	5.65
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	6	5.65
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	7	5.65
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	8	5.64
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	8	5.64
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	5	5.64
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	19	5.64
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	9	5.64
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	16	5.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	4	5.64
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	6	5.64
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	17	5.63
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	11	5.63
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	2	5.63
(1,361)	1:A:59:ILE:H	1:A:86:SER:CB	14	5.63
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	14	5.63
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	10	5.63
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	18	5.63
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	20	5.63
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	5	5.63
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	18	5.63
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	13	5.63
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	1	5.63
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	11	5.63
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	15	5.63
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	9	5.63
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	16	5.62
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	9	5.62
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	11	5.62
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	14	5.62
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	1	5.62
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	11	5.62
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	6	5.62
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	14	5.62
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	5	5.62
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	6	5.62
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	6	5.62
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	3	5.62
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	14	5.62
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	7	5.61
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	10	5.61
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	3	5.61
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	2	5.61
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	17	5.61
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	3	5.61
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	8	5.6
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	14	5.6
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	6	5.6
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	13	5.6
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	16	5.6
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	15	5.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	19	5.6
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	3	5.6
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	5	5.59
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	6	5.58
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	17	5.58
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	10	5.58
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	6	5.58
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	11	5.58
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	6	5.58
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	5	5.58
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	2	5.58
(1,217)	1:A:38:CYS:CB	1:A:62:ILE:H	18	5.58
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	19	5.58
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	5	5.58
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	12	5.58
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	14	5.58
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	10	5.58
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	2	5.58
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	13	5.57
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	13	5.57
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	2	5.57
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	11	5.57
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	15	5.57
(1,108)	1:A:25:THR:H	1:A:58:SER:CB	10	5.57
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	7	5.56
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	9	5.56
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	2	5.56
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	7	5.56
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	7	5.56
(1,194)	1:A:35:LEU:H	1:A:71:CYS:CB	17	5.56
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	5	5.56
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	8	5.56
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	7	5.56
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	3	5.55
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	17	5.55
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	14	5.55
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	13	5.55
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	2	5.55
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	11	5.55
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	19	5.55
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	19	5.55
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	4	5.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	18	5.54
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	12	5.54
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	3	5.54
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	19	5.54
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	18	5.54
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	20	5.54
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	12	5.54
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	9	5.54
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	9	5.54
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	14	5.54
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	4	5.54
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	7	5.54
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	15	5.54
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	7	5.54
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	18	5.54
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	20	5.54
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	15	5.54
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	9	5.53
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	1	5.53
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	5	5.53
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	2	5.53
(1,191)	1:A:34:GLY:H	1:A:86:SER:CB	3	5.53
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	4	5.52
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	7	5.52
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	20	5.52
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	13	5.52
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	7	5.52
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	18	5.52
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	10	5.52
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	1	5.51
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	10	5.51
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	2	5.51
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	11	5.51
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	8	5.51
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	18	5.51
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	16	5.5
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	8	5.5
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	13	5.5
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	4	5.5
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	13	5.5
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	16	5.49
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	10	5.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	15	5.49
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	12	5.49
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	8	5.49
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	2	5.48
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	20	5.48
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	3	5.48
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	9	5.48
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	9	5.48
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	15	5.48
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	4	5.48
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	1	5.48
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	20	5.47
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	15	5.47
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	7	5.47
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	6	5.47
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	20	5.47
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	5	5.47
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	9	5.47
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	13	5.47
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	13	5.47
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	10	5.47
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	6	5.46
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	8	5.46
(1,321)	1:A:54:SER:H	1:A:86:SER:CB	11	5.46
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	1	5.46
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	4	5.46
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	14	5.46
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	13	5.46
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	6	5.45
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	17	5.45
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	4	5.45
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	1	5.45
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	13	5.45
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	15	5.45
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	19	5.45
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	16	5.44
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	5	5.44
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	16	5.44
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	2	5.44
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	16	5.44
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	4	5.44
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	13	5.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	18	5.43
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	1	5.43
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	5	5.43
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	19	5.43
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	3	5.43
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	20	5.43
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	13	5.43
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	20	5.43
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	13	5.43
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	6	5.43
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	13	5.42
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	20	5.42
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	15	5.42
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	4	5.42
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	2	5.42
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	14	5.42
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	9	5.42
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	5	5.42
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	5	5.42
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	17	5.42
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	9	5.42
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	15	5.42
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	12	5.42
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	9	5.41
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	13	5.41
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	20	5.41
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	8	5.41
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	8	5.41
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	17	5.41
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	14	5.41
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	6	5.41
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	3	5.41
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	18	5.4
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	15	5.4
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	12	5.4
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	2	5.4
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	9	5.4
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	7	5.4
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	3	5.4
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	17	5.39
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	9	5.39
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	6	5.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	19	5.39
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	2	5.39
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	1	5.39
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	2	5.39
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	9	5.39
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	5	5.38
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	19	5.38
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	5	5.38
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	10	5.38
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	11	5.38
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	15	5.38
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	19	5.38
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	17	5.38
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	17	5.38
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	11	5.38
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	2	5.38
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	8	5.38
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	1	5.37
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	2	5.37
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	1	5.37
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	1	5.37
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	11	5.37
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	17	5.37
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	14	5.36
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	15	5.36
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	8	5.36
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	19	5.36
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	12	5.36
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	6	5.36
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	8	5.36
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	7	5.35
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	19	5.35
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	8	5.35
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	20	5.35
(1,345)	1:A:58:SER:CB	1:A:86:SER:H	9	5.35
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	2	5.35
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	12	5.35
(1,227)	1:A:38:CYS:H	1:A:71:CYS:CB	17	5.35
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	13	5.35
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	7	5.35
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	12	5.35
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	4	5.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	15	5.35
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	13	5.34
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	18	5.34
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	7	5.34
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	12	5.34
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	18	5.34
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	13	5.34
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	13	5.34
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	7	5.34
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	5	5.34
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	3	5.34
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	4	5.34
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	5	5.33
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	11	5.33
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	3	5.33
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	12	5.33
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	19	5.33
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	7	5.33
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	15	5.33
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	2	5.33
(1,26)	1:A:6:ARG:H	1:A:38:CYS:CB	10	5.33
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	1	5.33
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	11	5.33
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	1	5.33
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	6	5.33
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	2	5.32
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	10	5.32
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	6	5.32
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	9	5.32
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	13	5.32
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	14	5.32
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	15	5.32
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	9	5.32
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	5	5.32
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	18	5.31
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	13	5.31
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	3	5.31
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	14	5.31
(1,338)	1:A:58:SER:CB	1:A:79:GLY:H	9	5.31
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	13	5.31
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	11	5.31
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	11	5.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	10	5.31
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	18	5.31
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	13	5.31
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	14	5.3
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	5	5.3
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	15	5.3
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	9	5.3
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	6	5.3
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	1	5.3
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	3	5.3
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	12	5.3
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	4	5.29
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	18	5.29
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	2	5.29
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	9	5.29
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	5	5.29
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	4	5.29
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	17	5.29
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	19	5.29
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	6	5.29
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	19	5.28
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	16	5.28
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	8	5.28
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	6	5.28
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	8	5.28
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	10	5.27
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	18	5.27
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	15	5.27
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	16	5.27
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	5	5.27
(1,161)	1:A:28:SER:CB	1:A:85:TYR:H	16	5.27
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	14	5.27
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	14	5.26
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	8	5.26
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	12	5.26
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	9	5.26
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	4	5.26
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	11	5.26
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	10	5.26
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	12	5.26
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	18	5.26
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	9	5.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	17	5.26
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	6	5.25
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	13	5.25
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	12	5.25
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	6	5.25
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	5	5.25
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	7	5.25
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	8	5.25
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	6	5.25
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	3	5.25
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	8	5.24
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	2	5.24
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	20	5.24
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	11	5.24
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	5	5.24
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	18	5.23
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	5	5.23
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	10	5.23
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	6	5.23
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	18	5.23
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	8	5.23
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	15	5.23
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	9	5.23
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	20	5.23
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	6	5.23
(1,125)	1:A:28:SER:CB	1:A:50:ARG:H	1	5.23
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	3	5.22
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	4	5.22
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	15	5.22
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	19	5.22
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	6	5.22
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	2	5.22
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	14	5.22
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	10	5.22
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	1	5.22
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	2	5.22
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	19	5.22
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	12	5.22
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	2	5.21
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	13	5.21
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	16	5.21
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	19	5.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	6	5.21
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	16	5.21
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	14	5.2
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	17	5.2
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	3	5.2
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	10	5.2
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	19	5.2
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	5	5.2
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	17	5.19
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	20	5.19
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	20	5.19
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	1	5.19
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	16	5.19
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	6	5.18
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	15	5.18
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	9	5.18
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	20	5.18
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	6	5.18
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	10	5.17
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	17	5.17
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	18	5.17
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	4	5.17
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	10	5.17
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	18	5.17
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	12	5.17
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	5	5.17
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	18	5.17
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	7	5.16
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	11	5.16
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	17	5.16
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	14	5.16
(1,147)	1:A:28:SER:CB	1:A:71:CYS:H	9	5.16
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	14	5.16
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	13	5.16
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	13	5.15
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	4	5.15
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	17	5.15
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	19	5.15
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	5	5.15
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	9	5.15
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	5	5.15
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	19	5.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	16	5.15
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	3	5.15
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	12	5.15
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	6	5.15
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	10	5.14
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	18	5.14
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	9	5.14
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	14	5.14
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	17	5.14
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	5	5.14
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	17	5.14
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	2	5.14
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	8	5.13
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	9	5.13
(1,402)	1:A:86:SER:CB	1:A:97:GLY:H	10	5.13
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	16	5.13
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	5	5.13
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	5	5.13
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	16	5.13
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	9	5.13
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	7	5.13
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	1	5.13
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	3	5.12
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	7	5.12
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	15	5.12
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	2	5.12
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	16	5.12
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	17	5.12
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	19	5.12
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	7	5.12
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	19	5.12
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	18	5.12
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	13	5.11
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	7	5.11
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	4	5.11
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	13	5.11
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	17	5.11
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	15	5.11
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	2	5.11
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	20	5.11
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	19	5.1
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	19	5.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	1	5.1
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	16	5.1
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	10	5.1
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	20	5.1
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	16	5.1
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	4	5.1
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	5	5.1
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	2	5.1
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	3	5.09
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	15	5.09
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	15	5.09
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	10	5.09
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	15	5.08
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	4	5.08
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	20	5.08
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	13	5.08
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	7	5.08
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	8	5.08
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	7	5.08
(1,170)	1:A:28:SER:CB	1:A:94:GLN:H	18	5.08
(1,151)	1:A:28:SER:CB	1:A:75:ALA:H	9	5.08
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	20	5.08
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	14	5.07
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	2	5.07
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	14	5.07
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	4	5.07
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	3	5.07
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	8	5.06
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	9	5.06
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	4	5.06
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	19	5.06
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	15	5.06
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	7	5.06
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	8	5.06
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	12	5.06
(1,330)	1:A:58:SER:CB	1:A:71:CYS:H	18	5.06
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	19	5.06
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	6	5.06
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	13	5.06
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	13	5.06
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	16	5.05
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	9	5.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,378)	1:A:71:CYS:CB	1:A:83:THR:H	19	5.05
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	2	5.05
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	19	5.05
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	3	5.05
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	18	5.05
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	8	5.05
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	12	5.05
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	14	5.04
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	3	5.04
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	19	5.04
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	4	5.04
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	18	5.03
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	16	5.03
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	7	5.03
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	17	5.03
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	9	5.03
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	1	5.03
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	19	5.03
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	18	5.03
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	11	5.03
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	9	5.03
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	13	5.03
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	4	5.03
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	10	5.02
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	7	5.02
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	16	5.02
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	5	5.02
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	11	5.02
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	10	5.02
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	12	5.01
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	2	5.01
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	6	5.01
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	12	5.01
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	15	5.01
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	17	5.0
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	9	5.0
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	18	5.0
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	3	5.0
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	20	5.0
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	20	5.0
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	7	5.0
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	7	5.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	14	5.0
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	10	5.0
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	15	4.99
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	11	4.99
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	7	4.99
(1,44)	1:A:9:VAL:H	1:A:86:SER:CB	1	4.99
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	19	4.99
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	2	4.99
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	1	4.99
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	7	4.99
(1,265)	1:A:43:ALA:H	1:A:51:SER:CB	14	4.99
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	20	4.99
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	12	4.99
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	12	4.99
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	6	4.98
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	4	4.98
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	20	4.98
(1,384)	1:A:71:CYS:CB	1:A:88:TYR:H	14	4.98
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	1	4.98
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	12	4.98
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	18	4.98
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	18	4.98
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	1	4.98
(1,254)	1:A:39:LEU:H	1:A:58:SER:CB	10	4.98
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	4	4.98
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	15	4.98
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	6	4.97
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	17	4.97
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	19	4.97
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	11	4.97
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	18	4.97
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	20	4.97
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	1	4.97
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	7	4.97
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	17	4.97
(1,70)	1:A:17:VAL:H	1:A:38:CYS:CB	2	4.96
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	16	4.96
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	5	4.96
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	5	4.96
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	19	4.96
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	18	4.96
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	5	4.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	19	4.96
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	14	4.96
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	4	4.95
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	12	4.95
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	7	4.95
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	20	4.94
(1,397)	1:A:75:ALA:H	1:A:86:SER:CB	14	4.94
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	3	4.94
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	8	4.94
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	14	4.94
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	12	4.94
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	7	4.94
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	5	4.94
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	9	4.94
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	19	4.93
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	2	4.93
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	10	4.93
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	12	4.93
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	10	4.93
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	17	4.93
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	18	4.93
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	6	4.93
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	3	4.93
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	2	4.92
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	17	4.92
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	18	4.92
(1,323)	1:A:55:THR:H	1:A:86:SER:CB	4	4.92
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	12	4.92
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	2	4.92
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	7	4.92
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	15	4.91
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	12	4.91
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	3	4.91
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	13	4.91
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	2	4.91
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	8	4.91
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	18	4.91
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	3	4.91
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	3	4.91
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	7	4.91
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	13	4.91
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	11	4.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	18	4.9
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	15	4.9
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	5	4.9
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	15	4.9
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	11	4.9
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	10	4.9
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	19	4.9
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	7	4.9
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	7	4.89
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	8	4.89
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	4	4.89
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	16	4.89
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	10	4.89
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	4	4.88
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	14	4.88
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	12	4.88
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	6	4.88
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	16	4.88
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	18	4.88
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	16	4.88
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	8	4.88
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	5	4.87
(1,398)	1:A:76:ILE:H	1:A:86:SER:CB	14	4.87
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	19	4.87
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	17	4.87
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	18	4.87
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	9	4.87
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	19	4.87
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	2	4.87
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	20	4.87
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	20	4.86
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	16	4.86
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	2	4.86
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	9	4.86
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	18	4.86
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	7	4.86
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	16	4.86
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	17	4.86
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	14	4.86
(1,167)	1:A:28:SER:CB	1:A:91:ARG:H	18	4.86
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	5	4.86
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	16	4.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	17	4.85
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	11	4.85
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	3	4.85
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	14	4.85
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	1	4.85
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	6	4.85
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	7	4.85
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	14	4.85
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	1	4.85
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	10	4.84
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	15	4.84
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	14	4.84
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	6	4.84
(1,149)	1:A:28:SER:CB	1:A:73:VAL:H	9	4.84
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	4	4.83
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	13	4.83
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	9	4.83
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	17	4.83
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	5	4.83
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	9	4.83
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	10	4.82
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	13	4.82
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	9	4.82
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	5	4.82
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	13	4.82
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	3	4.82
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	11	4.81
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	12	4.81
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	11	4.81
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	13	4.81
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	13	4.81
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	18	4.81
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	4	4.8
(1,325)	1:A:56:LYS:H	1:A:86:SER:CB	7	4.8
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	19	4.8
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	9	4.8
(1,243)	1:A:38:CYS:CB	1:A:89:VAL:H	11	4.8
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	3	4.8
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	15	4.8
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	18	4.8
(1,89)	1:A:20:LYS:H	1:A:86:SER:CB	2	4.79
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	4	4.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:A:17:VAL:H	1:A:58:SER:CB	9	4.79
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	3	4.79
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	19	4.79
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	14	4.79
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	11	4.78
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	5	4.78
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	18	4.78
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	17	4.78
(1,327)	1:A:57:MET:H	1:A:86:SER:CB	7	4.78
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	6	4.78
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	2	4.77
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	17	4.77
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	20	4.77
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	20	4.77
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	11	4.77
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	15	4.77
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	7	4.77
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	15	4.77
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	18	4.77
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	6	4.77
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	5	4.77
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	17	4.76
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	7	4.76
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	17	4.76
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	17	4.76
(1,221)	1:A:38:CYS:CB	1:A:66:VAL:H	6	4.76
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	5	4.75
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	16	4.75
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	13	4.75
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	20	4.75
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	1	4.75
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	10	4.75
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	16	4.75
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	12	4.75
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	2	4.75
(1,185)	1:A:33:ILE:H	1:A:58:SER:CB	8	4.75
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	10	4.75
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	2	4.75
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	19	4.74
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	4	4.74
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	14	4.74
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	4	4.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	15	4.74
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	14	4.74
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	15	4.74
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	19	4.74
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	1	4.74
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	9	4.73
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	15	4.73
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	3	4.73
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	10	4.73
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	8	4.73
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	2	4.73
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	18	4.72
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	7	4.72
(1,253)	1:A:39:LEU:H	1:A:51:SER:CB	20	4.72
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	12	4.72
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	8	4.71
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	18	4.71
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	14	4.71
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	18	4.71
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	18	4.71
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	20	4.71
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	3	4.71
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	5	4.7
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	3	4.7
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	20	4.7
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	7	4.7
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	20	4.7
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	4	4.7
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	8	4.7
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	15	4.69
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	8	4.69
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	14	4.69
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	19	4.69
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	13	4.69
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	3	4.69
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	18	4.69
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	17	4.68
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	17	4.68
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	20	4.68
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	15	4.68
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	1	4.68
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	9	4.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	17	4.68
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	11	4.68
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	14	4.67
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	13	4.67
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	4	4.67
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	6	4.67
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	11	4.67
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	8	4.67
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	16	4.67
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	4	4.66
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	3	4.66
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	10	4.66
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	14	4.66
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	8	4.66
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	3	4.66
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	7	4.66
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	2	4.65
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	3	4.65
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	3	4.65
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	6	4.65
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	13	4.65
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	6	4.65
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	20	4.64
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	7	4.64
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	15	4.64
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	20	4.64
(1,102)	1:A:24:LYS:H	1:A:38:CYS:CB	11	4.64
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	8	4.63
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	2	4.63
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	13	4.63
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	9	4.63
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	9	4.63
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	18	4.63
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	8	4.63
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	8	4.63
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	14	4.63
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	8	4.63
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	15	4.62
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	10	4.62
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	16	4.62
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	12	4.62
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	4	4.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	9	4.61
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	13	4.61
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	10	4.61
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	20	4.61
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	3	4.61
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	9	4.61
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	3	4.61
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	17	4.61
(1,82)	1:A:19:GLU:H	1:A:38:CYS:CB	16	4.6
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	20	4.6
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	14	4.6
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	20	4.6
(1,169)	1:A:28:SER:CB	1:A:93:ALA:H	18	4.6
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	3	4.6
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	14	4.59
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	16	4.59
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	3	4.59
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	3	4.59
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	9	4.59
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	12	4.59
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	16	4.59
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	1	4.59
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	10	4.59
(1,138)	1:A:28:SER:CB	1:A:62:ILE:H	18	4.59
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	12	4.58
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	18	4.58
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	7	4.58
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	14	4.58
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	5	4.58
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	12	4.58
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	8	4.58
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	6	4.58
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	11	4.58
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	10	4.57
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	7	4.57
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	13	4.57
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	14	4.57
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	12	4.57
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	2	4.57
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	1	4.57
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	14	4.57
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	18	4.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	20	4.56
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	3	4.56
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	15	4.56
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	16	4.56
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	13	4.56
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	20	4.56
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	7	4.55
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	5	4.55
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	9	4.55
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	2	4.55
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	12	4.55
(1,228)	1:A:38:CYS:CB	1:A:72:ALA:H	15	4.55
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	9	4.55
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	20	4.55
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	5	4.54
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	13	4.54
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	18	4.54
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	14	4.54
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	11	4.54
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	20	4.54
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	20	4.54
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	19	4.54
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	4	4.54
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	6	4.54
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	18	4.54
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	14	4.54
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	8	4.54
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	3	4.54
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	7	4.53
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	18	4.53
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	2	4.53
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	6	4.53
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	18	4.53
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	9	4.53
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	1	4.53
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	18	4.53
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	11	4.53
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	8	4.53
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	11	4.53
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	16	4.52
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	3	4.52
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	2	4.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	3	4.52
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	1	4.52
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	14	4.52
(1,220)	1:A:38:CYS:CB	1:A:65:ARG:H	17	4.52
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	8	4.52
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	3	4.51
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	12	4.51
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	19	4.51
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	17	4.51
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	8	4.5
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	13	4.5
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	20	4.5
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	17	4.5
(1,337)	1:A:58:SER:CB	1:A:78:LEU:H	10	4.5
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	10	4.5
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	5	4.5
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	5	4.5
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	11	4.5
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	17	4.5
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	8	4.5
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	2	4.5
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	6	4.49
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	12	4.49
(1,387)	1:A:71:CYS:CB	1:A:91:ARG:H	9	4.49
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	1	4.49
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	17	4.49
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	9	4.49
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	17	4.49
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	9	4.49
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	2	4.49
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	16	4.49
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	13	4.48
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	8	4.48
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	4	4.48
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	17	4.48
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	15	4.48
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	4	4.48
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	8	4.48
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	9	4.47
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	17	4.47
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	10	4.47
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	19	4.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	4	4.47
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	5	4.46
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	7	4.46
(1,318)	1:A:52:ARG:H	1:A:86:SER:CB	1	4.46
(1,266)	1:A:43:ALA:H	1:A:58:SER:CB	10	4.46
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	7	4.46
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	16	4.46
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	20	4.46
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	15	4.46
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	8	4.45
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	5	4.45
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	14	4.45
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	1	4.45
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	13	4.45
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	19	4.45
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	10	4.45
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	6	4.45
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	6	4.45
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	18	4.44
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	6	4.44
(1,343)	1:A:58:SER:CB	1:A:84:MET:H	10	4.44
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	1	4.44
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	5	4.44
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	2	4.44
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	10	4.44
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	6	4.44
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	5	4.44
(1,150)	1:A:28:SER:CB	1:A:74:GLY:H	9	4.44
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	16	4.44
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	1	4.43
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	12	4.43
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	8	4.43
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	2	4.43
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	12	4.43
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	10	4.43
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	14	4.43
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	1	4.43
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	16	4.43
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	10	4.43
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	19	4.42
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	5	4.42
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	13	4.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	15	4.42
(1,329)	1:A:58:SER:CB	1:A:70:ALA:H	6	4.42
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	13	4.42
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	7	4.42
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	19	4.42
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	15	4.42
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	20	4.42
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	19	4.42
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	11	4.42
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	4	4.42
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	11	4.42
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	17	4.42
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	14	4.41
(1,45)	1:A:12:ASP:H	1:A:28:SER:CB	15	4.41
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	14	4.41
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	3	4.41
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	16	4.41
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	13	4.41
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	5	4.41
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	3	4.4
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	11	4.4
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	13	4.4
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	20	4.4
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	12	4.39
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	8	4.39
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	15	4.39
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	19	4.39
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	3	4.39
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	10	4.39
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	14	4.38
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	7	4.38
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	9	4.38
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	18	4.37
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	7	4.37
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	3	4.37
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	20	4.37
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	10	4.37
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	13	4.37
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	1	4.37
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	4	4.37
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	10	4.36
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	11	4.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	20	4.36
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	13	4.36
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	19	4.36
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	10	4.36
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	12	4.36
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	9	4.36
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	9	4.36
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	4	4.36
(1,154)	1:A:28:SER:CB	1:A:78:LEU:H	9	4.36
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	7	4.36
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	15	4.35
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	5	4.35
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	2	4.35
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	8	4.35
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	3	4.35
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	2	4.35
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	2	4.35
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	7	4.35
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	10	4.35
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	14	4.35
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	2	4.34
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	11	4.34
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	7	4.34
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	16	4.34
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	2	4.34
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	2	4.34
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	4	4.34
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	13	4.34
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	5	4.34
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	3	4.33
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	14	4.33
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	13	4.33
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	7	4.33
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	16	4.33
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	5	4.33
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	20	4.33
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	15	4.32
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	8	4.32
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	9	4.32
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	15	4.32
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	19	4.32
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	7	4.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	17	4.31
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	19	4.31
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	17	4.31
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	1	4.31
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	10	4.31
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	14	4.31
(1,223)	1:A:38:CYS:CB	1:A:68:ALA:H	6	4.31
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	15	4.31
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	7	4.31
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	8	4.31
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	9	4.31
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	13	4.31
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	14	4.31
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	16	4.31
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	16	4.3
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	14	4.3
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	1	4.3
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	7	4.3
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	11	4.3
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	18	4.3
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	16	4.3
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	4	4.3
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	4	4.3
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	16	4.29
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	15	4.29
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	15	4.29
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	18	4.29
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	7	4.29
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	11	4.28
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	4	4.28
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	8	4.28
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	8	4.28
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	16	4.28
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	20	4.28
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	4	4.28
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	18	4.28
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	20	4.28
(1,1)	1:A:2:SER:H	1:A:28:SER:CB	10	4.28
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	6	4.27
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	6	4.27
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	5	4.27
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	5	4.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	15	4.27
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	16	4.27
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	8	4.27
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	2	4.27
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	18	4.27
(1,199)	1:A:37:GLY:H	1:A:58:SER:CB	8	4.27
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	6	4.27
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	12	4.27
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	9	4.26
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	1	4.26
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	1	4.26
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	4	4.26
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	11	4.26
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	12	4.26
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	17	4.26
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	19	4.25
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	10	4.25
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	11	4.25
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	9	4.25
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	1	4.25
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	13	4.25
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	16	4.25
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	10	4.25
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	2	4.25
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	17	4.24
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	3	4.24
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	13	4.24
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	15	4.24
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	17	4.24
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	12	4.24
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	16	4.24
(1,162)	1:A:28:SER:CB	1:A:86:SER:H	16	4.24
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	19	4.24
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	4	4.24
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	14	4.24
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	1	4.23
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	1	4.23
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	19	4.23
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	5	4.23
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	13	4.23
(1,344)	1:A:58:SER:CB	1:A:85:TYR:H	10	4.23
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	2	4.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	12	4.23
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	6	4.23
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	5	4.23
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	6	4.23
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	8	4.23
(1,163)	1:A:28:SER:CB	1:A:87:ASP:H	6	4.23
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	15	4.23
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	10	4.23
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	17	4.23
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	1	4.22
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	3	4.22
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	15	4.22
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	5	4.22
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	2	4.22
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	18	4.22
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	13	4.22
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	5	4.22
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	5	4.21
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	17	4.21
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	14	4.21
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	19	4.21
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	13	4.21
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	12	4.21
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	12	4.21
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	19	4.2
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	2	4.2
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	5	4.2
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	13	4.2
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	2	4.2
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	15	4.2
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	10	4.2
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	5	4.2
(1,196)	1:A:36:GLY:H	1:A:51:SER:CB	14	4.2
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	9	4.19
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	6	4.19
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	3	4.19
(1,39)	1:A:8:TRP:H	1:A:71:CYS:CB	3	4.19
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	15	4.19
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	11	4.19
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	8	4.19
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	6	4.19
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	1	4.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	16	4.19
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	1	4.19
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	17	4.19
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	16	4.19
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	16	4.19
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	14	4.18
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	3	4.18
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	15	4.18
(1,159)	1:A:28:SER:CB	1:A:83:THR:H	4	4.18
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	13	4.17
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	1	4.17
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	15	4.17
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	18	4.17
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	12	4.17
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	15	4.17
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	9	4.17
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	2	4.17
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	12	4.16
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	6	4.16
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	6	4.16
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	13	4.16
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	15	4.16
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	17	4.16
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	14	4.15
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	13	4.15
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	11	4.15
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	3	4.15
(1,205)	1:A:38:CYS:CB	1:A:51:SER:H	8	4.15
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	3	4.15
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	14	4.15
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	13	4.15
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	3	4.14
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	2	4.14
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	10	4.14
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	11	4.14
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	5	4.14
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	12	4.14
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	17	4.14
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	9	4.13
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	14	4.13
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	12	4.13
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	15	4.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	2	4.13
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	8	4.13
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	11	4.13
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	19	4.12
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	18	4.12
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	1	4.12
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	4	4.12
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	4	4.12
(1,75)	1:A:18:SER:H	1:A:28:SER:CB	17	4.11
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	6	4.11
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	11	4.11
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	6	4.11
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	8	4.11
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	16	4.11
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	1	4.11
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	5	4.11
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	15	4.11
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	3	4.11
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	9	4.11
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	12	4.11
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	14	4.11
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	16	4.11
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	7	4.1
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	16	4.1
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	16	4.1
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	4	4.1
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	15	4.1
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	9	4.1
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	2	4.1
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	14	4.1
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	9	4.1
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	4	4.09
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	8	4.09
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	15	4.09
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	13	4.09
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	20	4.09
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	6	4.09
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	18	4.09
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	6	4.09
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	19	4.09
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	3	4.09
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	18	4.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	6	4.09
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	12	4.09
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	10	4.09
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	1	4.08
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	9	4.08
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	4	4.08
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	9	4.08
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	2	4.08
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	9	4.08
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	2	4.08
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	17	4.08
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	6	4.07
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	14	4.07
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	18	4.07
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	3	4.07
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	11	4.07
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	9	4.07
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	17	4.07
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	4	4.07
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	1	4.07
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	20	4.07
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	8	4.07
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	5	4.07
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	18	4.07
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	20	4.07
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	3	4.07
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	5	4.07
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	4	4.06
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	20	4.06
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	8	4.06
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	4	4.06
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	13	4.06
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	5	4.06
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	13	4.06
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	8	4.06
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	17	4.06
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	8	4.05
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	10	4.05
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	11	4.05
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	3	4.05
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	17	4.05
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	5	4.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	17	4.05
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	15	4.05
(1,263)	1:A:42:ALA:H	1:A:71:CYS:CB	9	4.05
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	7	4.05
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	2	4.05
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	16	4.05
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	16	4.04
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	3	4.04
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	2	4.04
(1,80)	1:A:18:SER:H	1:A:86:SER:CB	15	4.04
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	3	4.04
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	20	4.04
(1,332)	1:A:58:SER:CB	1:A:72:ALA:H	18	4.04
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	19	4.04
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	19	4.04
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	17	4.04
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	11	4.04
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	9	4.04
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	18	4.04
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	12	4.03
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	17	4.03
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	14	4.03
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	9	4.03
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	13	4.03
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	12	4.03
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	8	4.03
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	10	4.02
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	18	4.02
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	2	4.02
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	5	4.02
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	6	4.02
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	17	4.02
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	15	4.02
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	6	4.02
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	19	4.02
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	18	4.02
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	12	4.01
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	10	4.01
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	13	4.01
(1,369)	1:A:65:ARG:H	1:A:86:SER:CB	17	4.01
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	13	4.01
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	6	4.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	17	4.01
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	19	4.01
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	6	4.01
(1,139)	1:A:28:SER:CB	1:A:63:HIS:H	3	4.01
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	4	4.0
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	9	4.0
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	5	4.0
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	9	4.0
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	18	4.0
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	13	4.0
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	19	3.99
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	11	3.99
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	17	3.99
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	1	3.99
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	11	3.99
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	15	3.99
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	17	3.99
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	19	3.98
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	4	3.98
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	17	3.98
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	5	3.98
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	14	3.98
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	1	3.98
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	11	3.98
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	18	3.98
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	10	3.97
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	7	3.97
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	6	3.97
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	4	3.97
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	12	3.97
(1,264)	1:A:42:ALA:H	1:A:86:SER:CB	8	3.97
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	20	3.97
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	5	3.97
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	9	3.97
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	14	3.97
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	19	3.97
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	11	3.97
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	9	3.96
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	9	3.96
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	8	3.96
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	1	3.96
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	12	3.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	14	3.96
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	5	3.96
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	13	3.96
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	18	3.95
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	11	3.95
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	19	3.95
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	12	3.95
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	14	3.95
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	15	3.95
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	3	3.95
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	8	3.95
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	4	3.95
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	17	3.95
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	2	3.95
(1,276)	1:A:46:ILE:H	1:A:86:SER:CB	4	3.95
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	16	3.95
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	2	3.95
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	11	3.95
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	2	3.94
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	18	3.94
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	17	3.94
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	17	3.94
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	19	3.94
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	7	3.94
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	12	3.94
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	20	3.94
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	20	3.93
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	12	3.93
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	1	3.92
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	12	3.92
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	18	3.92
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	10	3.92
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	16	3.92
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	10	3.92
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	14	3.92
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	20	3.92
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	8	3.92
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	10	3.92
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	7	3.92
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	8	3.92
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	17	3.91
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	18	3.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	11	3.91
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	17	3.91
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	10	3.91
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	14	3.91
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	19	3.91
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	20	3.9
(1,395)	1:A:71:CYS:CB	1:A:99:LYS:H	13	3.9
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	11	3.9
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	9	3.9
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	1	3.89
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	14	3.89
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	7	3.89
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	16	3.89
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	20	3.89
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	2	3.89
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	14	3.89
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	13	3.89
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	15	3.89
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	17	3.88
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	9	3.88
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	12	3.88
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	9	3.88
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	15	3.88
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	13	3.88
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	13	3.88
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	20	3.88
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	3	3.88
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	14	3.87
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	17	3.87
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	19	3.87
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	11	3.87
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	2	3.87
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	7	3.87
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	8	3.87
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	17	3.87
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	18	3.87
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	4	3.87
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	11	3.87
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	3	3.87
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	14	3.86
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	11	3.86
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	3	3.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	18	3.86
(1,204)	1:A:38:CYS:CB	1:A:50:ARG:H	1	3.86
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	11	3.86
(1,381)	1:A:71:CYS:CB	1:A:86:SER:H	9	3.85
(1,146)	1:A:28:SER:CB	1:A:70:ALA:H	9	3.85
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	1	3.84
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	5	3.84
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	9	3.84
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	3	3.84
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	7	3.84
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	2	3.84
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	7	3.83
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	8	3.83
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	11	3.83
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	10	3.83
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	13	3.83
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	18	3.83
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	14	3.83
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	20	3.82
(1,390)	1:A:71:CYS:CB	1:A:94:GLN:H	6	3.82
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	11	3.82
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	14	3.82
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	1	3.82
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	5	3.82
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	9	3.82
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	8	3.82
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	15	3.82
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	8	3.81
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	18	3.81
(1,380)	1:A:71:CYS:CB	1:A:85:TYR:H	19	3.81
(1,303)	1:A:51:SER:CB	1:A:86:SER:H	9	3.81
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	5	3.81
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	4	3.81
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	10	3.8
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	7	3.8
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	16	3.8
(1,99)	1:A:23:ARG:H	1:A:38:CYS:CB	11	3.79
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	1	3.79
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	12	3.79
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	20	3.79
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	15	3.79
(1,284)	1:A:50:ARG:H	1:A:86:SER:CB	11	3.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	1	3.79
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	1	3.79
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	4	3.79
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	16	3.79
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	19	3.79
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	10	3.79
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	18	3.78
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	2	3.78
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	18	3.78
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	13	3.78
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	2	3.78
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	10	3.78
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	19	3.77
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	17	3.77
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	3	3.77
(1,301)	1:A:51:SER:CB	1:A:84:MET:H	13	3.77
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	12	3.77
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	13	3.77
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	15	3.76
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	7	3.76
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	13	3.76
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	18	3.76
(1,370)	1:A:66:VAL:H	1:A:86:SER:CB	6	3.76
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	6	3.76
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	20	3.76
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	11	3.76
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	20	3.76
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	1	3.76
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	11	3.76
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	16	3.75
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	2	3.75
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	17	3.75
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	10	3.75
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	9	3.75
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	19	3.74
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	6	3.74
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	12	3.74
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	15	3.74
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	12	3.74
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	18	3.73
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	14	3.73
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	20	3.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	13	3.73
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	8	3.73
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	15	3.73
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	12	3.73
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	4	3.73
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	16	3.72
(1,388)	1:A:71:CYS:CB	1:A:92:MET:H	6	3.72
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	3	3.72
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	20	3.72
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	19	3.72
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	10	3.72
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	9	3.72
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	11	3.72
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	16	3.72
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	4	3.72
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	16	3.72
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	16	3.72
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	9	3.72
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	11	3.72
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	2	3.71
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	10	3.71
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	1	3.71
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	18	3.71
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	3	3.71
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	1	3.71
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	4	3.7
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	13	3.7
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	20	3.7
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	5	3.7
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	15	3.7
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	12	3.7
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	4	3.7
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	1	3.7
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	12	3.7
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	12	3.7
(1,106)	1:A:25:THR:H	1:A:38:CYS:CB	11	3.7
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	19	3.69
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	20	3.69
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	7	3.69
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	18	3.68
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	17	3.68
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	13	3.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	11	3.67
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	20	3.67
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	7	3.67
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	15	3.67
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	5	3.67
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	8	3.67
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	2	3.67
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	7	3.67
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	16	3.66
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	11	3.66
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	10	3.66
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	12	3.66
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	19	3.66
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	14	3.66
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	13	3.65
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	16	3.65
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	15	3.65
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	20	3.64
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	6	3.64
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	11	3.64
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	15	3.64
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	5	3.64
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	1	3.64
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	8	3.63
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	17	3.63
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	1	3.63
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	10	3.62
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	9	3.62
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	20	3.62
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	4	3.62
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	10	3.62
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	5	3.62
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	11	3.62
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	14	3.62
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	6	3.62
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	17	3.61
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	2	3.61
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	16	3.61
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	2	3.61
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	3	3.61
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	3	3.6
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	17	3.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	17	3.6
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	9	3.6
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	11	3.6
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	1	3.6
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	7	3.6
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	2	3.6
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	14	3.6
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	11	3.59
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	10	3.59
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	11	3.59
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	13	3.59
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	16	3.59
(1,174)	1:A:28:SER:CB	1:A:98:GLU:H	14	3.59
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	2	3.59
(1,13)	1:A:4:ASN:H	1:A:28:SER:CB	10	3.59
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	5	3.58
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	12	3.58
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	18	3.58
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	12	3.58
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	3	3.57
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	5	3.57
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	4	3.57
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	14	3.57
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	20	3.57
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	13	3.57
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	10	3.56
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	15	3.56
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	12	3.56
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	18	3.56
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	5	3.56
(2,2)	1:A:38:CYS:CB	1:A:78:LEU:H	6	3.55
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	14	3.55
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	2	3.55
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	13	3.55
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	13	3.55
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	17	3.55
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	6	3.55
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	17	3.55
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	16	3.55
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	5	3.55
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	17	3.55
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	9	3.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	10	3.54
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	6	3.54
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	7	3.54
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	7	3.54
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	1	3.54
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	17	3.54
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	15	3.54
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	20	3.54
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	7	3.54
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	4	3.54
(1,67)	1:A:16:CYS:H	1:A:71:CYS:CB	10	3.53
(1,66)	1:A:16:CYS:H	1:A:58:SER:CB	5	3.53
(1,64)	1:A:16:CYS:H	1:A:38:CYS:CB	10	3.53
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	5	3.53
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	7	3.53
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	6	3.53
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	11	3.53
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	9	3.53
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	17	3.53
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	1	3.53
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	20	3.53
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	16	3.52
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	11	3.52
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	7	3.52
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	12	3.52
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	5	3.52
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	4	3.51
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	4	3.51
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	19	3.51
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	3	3.51
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	18	3.51
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	15	3.51
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	1	3.51
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	5	3.51
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	12	3.51
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	13	3.5
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	13	3.5
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	12	3.5
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	18	3.5
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	1	3.5
(1,140)	1:A:28:SER:CB	1:A:64:THR:H	6	3.5
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	12	3.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	20	3.49
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	11	3.49
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	15	3.49
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	17	3.49
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	5	3.48
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	1	3.48
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	13	3.48
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	1	3.48
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	14	3.48
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	5	3.48
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	18	3.48
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	18	3.48
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	13	3.48
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	4	3.48
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	1	3.48
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	17	3.47
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	7	3.47
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	17	3.47
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	13	3.46
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	10	3.46
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	18	3.46
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	18	3.46
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	3	3.46
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	1	3.46
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	14	3.46
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	15	3.46
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	9	3.46
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	1	3.46
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	5	3.46
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	4	3.46
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	12	3.45
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	19	3.45
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	19	3.45
(1,365)	1:A:62:ILE:H	1:A:86:SER:CB	12	3.45
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	8	3.45
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	10	3.45
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	3	3.45
(1,283)	1:A:50:ARG:H	1:A:71:CYS:CB	4	3.45
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	13	3.45
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	19	3.45
(1,124)	1:A:28:SER:CB	1:A:49:LEU:H	13	3.45
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	10	3.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	2	3.44
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	6	3.44
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	7	3.44
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	7	3.44
(1,268)	1:A:44:TYR:H	1:A:51:SER:CB	14	3.44
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	8	3.44
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	2	3.44
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	2	3.44
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	3	3.44
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	19	3.43
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	8	3.43
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	13	3.43
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	12	3.43
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	17	3.43
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	10	3.43
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	6	3.43
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	17	3.43
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	16	3.42
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	7	3.42
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	19	3.42
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	9	3.42
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	19	3.42
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	11	3.42
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	16	3.42
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	4	3.42
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	13	3.42
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	10	3.42
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	1	3.41
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	15	3.41
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	8	3.41
(1,379)	1:A:71:CYS:CB	1:A:84:MET:H	12	3.41
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	7	3.41
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	1	3.41
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	20	3.4
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	15	3.4
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	9	3.4
(1,400)	1:A:79:GLY:H	1:A:86:SER:CB	14	3.4
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	9	3.4
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	16	3.4
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	7	3.4
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	10	3.4
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	12	3.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	17	3.4
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	16	3.4
(1,143)	1:A:28:SER:CB	1:A:67:ALA:H	9	3.4
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	13	3.39
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	4	3.39
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	3	3.39
(1,218)	1:A:38:CYS:CB	1:A:63:HIS:H	3	3.39
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	1	3.39
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	1	3.38
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	17	3.38
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	5	3.38
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	6	3.38
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	9	3.38
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	4	3.38
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	12	3.38
(1,319)	1:A:53:GLY:H	1:A:86:SER:CB	4	3.38
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	4	3.38
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	19	3.38
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	10	3.38
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	16	3.38
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	12	3.38
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	20	3.37
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	7	3.37
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	5	3.37
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	4	3.37
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	5	3.37
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	6	3.36
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	10	3.36
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	14	3.36
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	19	3.36
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	3	3.36
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	15	3.35
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	14	3.35
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	7	3.35
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	14	3.35
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	19	3.35
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	20	3.34
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	17	3.34
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	11	3.34
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	10	3.34
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	16	3.34
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	7	3.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	8	3.33
(1,393)	1:A:71:CYS:CB	1:A:97:GLY:H	3	3.33
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	16	3.33
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	8	3.33
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	4	3.33
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	14	3.33
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	15	3.33
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	4	3.33
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	3	3.32
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	3	3.32
(1,207)	1:A:38:CYS:CB	1:A:52:ARG:H	1	3.32
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	2	3.31
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	20	3.31
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	11	3.31
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	5	3.31
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	18	3.31
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	20	3.31
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	2	3.31
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	7	3.31
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	11	3.31
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	6	3.31
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	16	3.31
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	5	3.3
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	16	3.3
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	4	3.3
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	9	3.3
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	17	3.29
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	12	3.29
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	2	3.29
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	13	3.29
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	7	3.29
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	7	3.29
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	6	3.29
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	1	3.28
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	4	3.28
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	5	3.28
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	6	3.28
(1,120)	1:A:28:SER:CB	1:A:39:LEU:H	15	3.28
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	19	3.27
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	20	3.27
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	2	3.27
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	20	3.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	19	3.27
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	7	3.27
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	18	3.26
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	5	3.26
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	9	3.26
(1,189)	1:A:34:GLY:H	1:A:58:SER:CB	8	3.26
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	12	3.26
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	7	3.26
(1,113)	1:A:27:GLU:H	1:A:38:CYS:CB	9	3.26
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	6	3.25
(1,386)	1:A:71:CYS:CB	1:A:90:LYS:H	3	3.25
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	10	3.25
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	3	3.25
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	15	3.25
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	8	3.25
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	3	3.25
(1,155)	1:A:28:SER:CB	1:A:79:GLY:H	6	3.25
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	14	3.25
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	20	3.24
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	11	3.24
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	13	3.24
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	13	3.24
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	16	3.24
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	10	3.24
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	19	3.23
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	11	3.23
(1,335)	1:A:58:SER:CB	1:A:75:ALA:H	18	3.23
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	14	3.23
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	2	3.23
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	18	3.23
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	12	3.23
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	4	3.23
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	19	3.22
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	15	3.22
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	17	3.22
(1,277)	1:A:47:TYR:H	1:A:58:SER:CB	10	3.22
(1,222)	1:A:38:CYS:CB	1:A:67:ALA:H	6	3.22
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	6	3.22
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	13	3.22
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	13	3.22
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	4	3.21
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	2	3.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	4	3.2
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	20	3.2
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	19	3.2
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	5	3.2
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	7	3.2
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	11	3.19
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	18	3.19
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	20	3.19
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	9	3.19
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	11	3.19
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	14	3.19
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	6	3.19
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	11	3.19
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	9	3.19
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	9	3.19
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	6	3.19
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	20	3.18
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	11	3.18
(1,76)	1:A:18:SER:H	1:A:38:CYS:CB	17	3.17
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	7	3.17
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	2	3.17
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	4	3.17
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	19	3.17
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	1	3.17
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	20	3.17
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	13	3.16
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	13	3.16
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	15	3.16
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	10	3.15
(1,392)	1:A:71:CYS:CB	1:A:96:ALA:H	20	3.15
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	8	3.15
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	2	3.15
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	9	3.15
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	14	3.15
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	12	3.15
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	19	3.15
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	16	3.14
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	4	3.14
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	6	3.14
(1,184)	1:A:33:ILE:H	1:A:51:SER:CB	14	3.14
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	20	3.13
(1,304)	1:A:51:SER:H	1:A:86:SER:CB	3	3.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	20	3.13
(1,144)	1:A:28:SER:CB	1:A:68:ALA:H	9	3.13
(1,383)	1:A:71:CYS:CB	1:A:87:ASP:H	19	3.12
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	3	3.12
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	10	3.12
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	8	3.12
(1,396)	1:A:74:GLY:H	1:A:86:SER:CB	14	3.11
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	6	3.11
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	1	3.11
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	13	3.11
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	15	3.11
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	11	3.11
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	5	3.11
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	8	3.11
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	17	3.11
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	15	3.11
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	4	3.11
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	1	3.11
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	14	3.1
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	16	3.1
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	4	3.1
(1,85)	1:A:20:LYS:H	1:A:28:SER:CB	17	3.09
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	15	3.09
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	18	3.09
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	5	3.09
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	10	3.09
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	12	3.09
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	4	3.09
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	20	3.09
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	16	3.09
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	19	3.08
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	11	3.08
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	10	3.08
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	6	3.08
(1,302)	1:A:51:SER:CB	1:A:85:TYR:H	13	3.07
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	6	3.07
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	16	3.07
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	3	3.07
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	12	3.06
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	18	3.06
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	7	3.06
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	4	3.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	14	3.06
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	16	3.06
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	18	3.06
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	18	3.06
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	6	3.06
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	20	3.06
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	3	3.05
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	19	3.05
(1,293)	1:A:51:SER:H	1:A:71:CYS:CB	8	3.05
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	3	3.05
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	16	3.05
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	2	3.05
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	12	3.05
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	8	3.05
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	2	3.04
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	12	3.04
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	19	3.04
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	15	3.04
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	16	3.04
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	12	3.04
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	14	3.04
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	17	3.03
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	20	3.03
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	20	3.03
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	8	3.03
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	14	3.03
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	11	3.03
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	13	3.03
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	3	3.03
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	12	3.03
(1,95)	1:A:22:LEU:H	1:A:38:CYS:CB	16	3.02
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	9	3.02
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	13	3.02
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	17	3.02
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	7	3.02
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	4	3.02
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	7	3.02
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	16	3.02
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	20	3.02
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	13	3.01
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	2	3.01
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	5	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	14	3.01
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	7	3.01
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	3	3.01
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	20	3.01
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	5	3.01
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	16	3.01
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	12	3.0
(1,262)	1:A:42:ALA:H	1:A:58:SER:CB	10	3.0
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	17	3.0
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	15	3.0
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	19	3.0
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	8	3.0
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	11	2.99
(1,43)	1:A:9:VAL:H	1:A:71:CYS:CB	10	2.99
(1,391)	1:A:71:CYS:CB	1:A:95:ASP:H	13	2.99
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	4	2.99
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	16	2.99
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	5	2.99
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	7	2.98
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	19	2.98
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	17	2.98
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	19	2.98
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	3	2.98
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	8	2.98
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	8	2.97
(1,324)	1:A:56:LYS:H	1:A:71:CYS:CB	4	2.97
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	6	2.97
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	16	2.97
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	6	2.97
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	18	2.97
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	5	2.96
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	4	2.96
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	11	2.95
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	8	2.95
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	2	2.95
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	17	2.95
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	9	2.95
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	17	2.95
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	10	2.94
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	15	2.94
(1,19)	1:A:5:ARG:H	1:A:28:SER:CB	10	2.94
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	5	2.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	14	2.93
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	20	2.93
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	12	2.93
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	10	2.93
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	17	2.93
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	3	2.93
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	15	2.93
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	5	2.93
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	5	2.93
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	15	2.92
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	5	2.92
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	20	2.92
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	10	2.92
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	19	2.92
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	14	2.92
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	16	2.92
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	6	2.91
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	8	2.91
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	9	2.91
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	3	2.91
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	11	2.91
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	3	2.91
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	5	2.9
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	8	2.9
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	11	2.9
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	15	2.9
(1,225)	1:A:38:CYS:CB	1:A:70:ALA:H	16	2.9
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	3	2.9
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	1	2.89
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	19	2.89
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	19	2.89
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	19	2.89
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	12	2.89
(1,182)	1:A:31:VAL:H	1:A:86:SER:CB	19	2.89
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	8	2.88
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	20	2.88
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	1	2.88
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	8	2.88
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	18	2.88
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	6	2.88
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	20	2.88
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	13	2.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	7	2.87
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	20	2.87
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	3	2.87
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	6	2.87
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	2	2.87
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	11	2.87
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	8	2.86
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	2	2.86
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	19	2.86
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	18	2.86
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	5	2.86
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	16	2.86
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	8	2.86
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	4	2.85
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	17	2.85
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	7	2.85
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	3	2.85
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	7	2.85
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	19	2.85
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	7	2.85
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	9	2.84
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	3	2.84
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	12	2.84
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	3	2.84
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	5	2.84
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	12	2.84
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	16	2.83
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	13	2.83
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	15	2.83
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	8	2.83
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	1	2.83
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	4	2.83
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	19	2.82
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	8	2.82
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	7	2.81
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	5	2.81
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	17	2.81
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	20	2.81
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	18	2.8
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	1	2.8
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	17	2.8
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	20	2.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	17	2.79
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	3	2.79
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	19	2.79
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	10	2.79
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	17	2.79
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	5	2.79
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	7	2.79
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	17	2.78
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	5	2.78
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	5	2.77
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	18	2.77
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	6	2.77
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	14	2.77
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	16	2.76
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	1	2.76
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	8	2.76
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	1	2.76
(1,342)	1:A:58:SER:CB	1:A:83:THR:H	9	2.75
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	7	2.75
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	9	2.75
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	19	2.75
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	8	2.75
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	1	2.75
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	11	2.75
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	20	2.75
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	20	2.74
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	11	2.74
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	4	2.74
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	12	2.74
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	11	2.74
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	1	2.74
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	6	2.74
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	12	2.74
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	13	2.74
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	4	2.73
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	15	2.73
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	20	2.73
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	18	2.73
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	10	2.73
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	16	2.73
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	12	2.72
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	14	2.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	9	2.72
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	8	2.72
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	6	2.72
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	14	2.72
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	1	2.71
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	8	2.71
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	12	2.71
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	11	2.71
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	11	2.71
(1,109)	1:A:26:ARG:H	1:A:38:CYS:CB	10	2.71
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	10	2.7
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	15	2.7
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	8	2.7
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	15	2.69
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	4	2.69
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	19	2.68
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	4	2.68
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	5	2.68
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	8	2.68
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	13	2.68
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	2	2.68
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	4	2.67
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	11	2.67
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	8	2.67
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	12	2.67
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	2	2.66
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	3	2.66
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	12	2.66
(1,367)	1:A:64:THR:H	1:A:86:SER:CB	15	2.66
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	2	2.66
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	19	2.66
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	20	2.66
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	19	2.66
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	4	2.65
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	2	2.65
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	10	2.65
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	11	2.65
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	8	2.65
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	4	2.65
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	11	2.65
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	7	2.65
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	8	2.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	9	2.64
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	9	2.64
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	4	2.64
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	8	2.64
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	18	2.64
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	11	2.64
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	18	2.64
(1,394)	1:A:71:CYS:CB	1:A:98:GLU:H	13	2.63
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	7	2.63
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	15	2.63
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	5	2.63
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	7	2.63
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	18	2.63
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	5	2.62
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	19	2.62
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	6	2.62
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	1	2.62
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	18	2.61
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	19	2.61
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	17	2.61
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	8	2.61
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	7	2.61
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	7	2.6
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	14	2.6
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	6	2.6
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	16	2.6
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	1	2.59
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	11	2.59
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	18	2.59
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	15	2.58
(1,271)	1:A:45:ARG:H	1:A:58:SER:CB	10	2.58
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	12	2.58
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	13	2.58
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	13	2.58
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	11	2.58
(1,168)	1:A:28:SER:CB	1:A:92:MET:H	6	2.58
(1,326)	1:A:57:MET:H	1:A:71:CYS:CB	7	2.57
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	17	2.57
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	6	2.57
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	12	2.57
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	8	2.57
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	16	2.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	4	2.57
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	9	2.56
(1,259)	1:A:41:VAL:H	1:A:58:SER:CB	10	2.56
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	13	2.56
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	20	2.56
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	4	2.56
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	11	2.56
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	8	2.56
(1,193)	1:A:35:LEU:H	1:A:58:SER:CB	10	2.56
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	11	2.55
(1,331)	1:A:58:SER:H	1:A:71:CYS:CB	2	2.55
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	15	2.55
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	10	2.55
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	11	2.55
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	16	2.55
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	13	2.55
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	16	2.55
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	3	2.54
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	15	2.54
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	1	2.54
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	3	2.54
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	6	2.54
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	13	2.54
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	6	2.53
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	7	2.53
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	5	2.53
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	11	2.53
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	1	2.53
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	2	2.53
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	15	2.53
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	9	2.53
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	6	2.53
(1,141)	1:A:28:SER:CB	1:A:65:ARG:H	18	2.53
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	4	2.52
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	7	2.52
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	9	2.52
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	7	2.52
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	2	2.52
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	20	2.52
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	16	2.51
(1,300)	1:A:51:SER:CB	1:A:83:THR:H	16	2.51
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	8	2.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	6	2.51
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	15	2.5
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	7	2.5
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	12	2.5
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	2	2.5
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	6	2.5
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	10	2.5
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	13	2.5
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	20	2.5
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	16	2.5
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	8	2.5
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	14	2.5
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	8	2.5
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	20	2.49
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	20	2.49
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	10	2.49
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	4	2.49
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	2	2.49
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	15	2.49
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	15	2.49
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	13	2.49
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	13	2.49
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	10	2.49
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	10	2.49
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	16	2.48
(1,156)	1:A:28:SER:CB	1:A:80:ALA:H	6	2.48
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	18	2.47
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	6	2.47
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	3	2.47
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	16	2.47
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	16	2.46
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	17	2.46
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	20	2.45
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	12	2.45
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	7	2.45
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	14	2.44
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	8	2.44
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	11	2.44
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	3	2.44
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	19	2.44
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	9	2.44
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	12	2.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	1	2.43
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	5	2.43
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	16	2.43
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	1	2.43
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	12	2.43
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	10	2.43
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	20	2.43
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	13	2.43
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	10	2.43
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	17	2.43
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	12	2.43
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	18	2.42
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	13	2.42
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	15	2.42
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	15	2.42
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	3	2.42
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	3	2.42
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	4	2.41
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	2	2.41
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	13	2.41
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	3	2.41
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	11	2.41
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	19	2.41
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	3	2.41
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	11	2.41
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	4	2.41
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	5	2.4
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	9	2.4
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	16	2.4
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	8	2.4
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	5	2.4
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	14	2.4
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	16	2.4
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	10	2.4
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	8	2.39
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	13	2.39
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	9	2.39
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	8	2.39
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	19	2.39
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	16	2.39
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	16	2.39
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	5	2.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	3	2.38
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	4	2.38
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	18	2.38
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	11	2.37
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	9	2.37
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	17	2.37
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	6	2.37
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	5	2.36
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	19	2.36
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	9	2.36
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	17	2.36
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	5	2.36
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	5	2.36
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	5	2.35
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	1	2.35
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	13	2.35
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	12	2.35
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	18	2.35
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	11	2.35
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	7	2.34
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	16	2.34
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	15	2.34
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	10	2.34
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	2	2.33
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	12	2.33
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	20	2.33
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	19	2.33
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	12	2.33
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	19	2.33
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	10	2.33
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	2	2.33
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	18	2.33
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	12	2.33
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	5	2.32
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	6	2.32
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	9	2.32
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	17	2.32
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	7	2.32
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	14	2.32
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	19	2.31
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	17	2.31
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	11	2.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:A:7:TRP:H	1:A:28:SER:CB	5	2.31
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	2	2.31
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	8	2.31
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	3	2.31
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	17	2.31
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	8	2.31
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	7	2.31
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	11	2.31
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	19	2.3
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	16	2.3
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	8	2.3
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	11	2.29
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	15	2.29
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	2	2.29
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	18	2.29
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	10	2.28
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	18	2.28
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	12	2.28
(1,258)	1:A:40:VAL:H	1:A:86:SER:CB	10	2.28
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	2	2.28
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	17	2.28
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	13	2.28
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	20	2.27
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	15	2.27
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	16	2.26
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	18	2.26
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	13	2.26
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	13	2.26
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	10	2.26
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	6	2.26
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	10	2.25
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	19	2.25
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	1	2.25
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	5	2.25
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	10	2.25
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	5	2.25
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	13	2.25
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	19	2.25
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	17	2.24
(1,281)	1:A:49:LEU:H	1:A:58:SER:CB	10	2.24
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	9	2.24
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	13	2.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	8	2.23
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	18	2.23
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	1	2.23
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	14	2.23
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	5	2.23
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	17	2.23
(1,175)	1:A:28:SER:CB	1:A:99:LYS:H	6	2.23
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	9	2.23
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	12	2.22
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	1	2.22
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	2	2.22
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	14	2.22
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	14	2.21
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	4	2.21
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	19	2.21
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	15	2.21
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	20	2.21
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	10	2.21
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	1	2.21
(1,60)	1:A:14:GLU:H	1:A:86:SER:CB	19	2.2
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	16	2.2
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	8	2.2
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	15	2.2
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	11	2.2
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	16	2.2
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	13	2.2
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	6	2.19
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	10	2.19
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	15	2.19
(1,278)	1:A:47:TYR:H	1:A:71:CYS:CB	1	2.19
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	3	2.19
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	19	2.19
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	4	2.19
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	10	2.18
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	9	2.18
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	12	2.18
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	17	2.18
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	20	2.18
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	6	2.18
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	14	2.17
(1,294)	1:A:51:SER:CB	1:A:73:VAL:H	16	2.17
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	17	2.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	17	2.17
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	17	2.17
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	12	2.16
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	1	2.16
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	10	2.16
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	14	2.16
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	4	2.16
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	12	2.16
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	2	2.15
(1,59)	1:A:14:GLU:H	1:A:58:SER:CB	1	2.15
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	2	2.15
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	11	2.15
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	18	2.15
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	20	2.15
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	1	2.15
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	11	2.15
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	19	2.15
(1,208)	1:A:38:CYS:CB	1:A:53:GLY:H	1	2.15
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	2	2.15
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	14	2.15
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	12	2.15
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	9	2.15
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	15	2.14
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	6	2.14
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	13	2.14
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	1	2.14
(1,320)	1:A:54:SER:H	1:A:71:CYS:CB	4	2.13
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	16	2.13
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	4	2.13
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	11	2.13
(1,274)	1:A:46:ILE:H	1:A:51:SER:CB	14	2.13
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	14	2.13
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	2	2.13
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	9	2.13
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	11	2.13
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	1	2.13
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	10	2.12
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	3	2.12
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	8	2.12
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	11	2.12
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	6	2.12
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	8	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	4	2.11
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	9	2.11
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	7	2.11
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	16	2.11
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	11	2.11
(1,153)	1:A:28:SER:CB	1:A:77:MET:H	9	2.11
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	17	2.11
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	12	2.11
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	11	2.1
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	3	2.1
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	7	2.1
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	5	2.1
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	6	2.1
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	3	2.1
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	10	2.1
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	5	2.09
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	17	2.09
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	6	2.09
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	14	2.09
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	20	2.09
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	10	2.09
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	2	2.09
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	15	2.08
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	1	2.08
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	12	2.08
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	4	2.08
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	12	2.07
(1,275)	1:A:46:ILE:H	1:A:71:CYS:CB	5	2.07
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	11	2.07
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	2	2.07
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	1	2.06
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	20	2.06
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	14	2.06
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	9	2.06
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	20	2.06
(1,173)	1:A:28:SER:CB	1:A:97:GLY:H	11	2.06
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	10	2.06
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	15	2.06
(1,145)	1:A:28:SER:CB	1:A:69:GLN:H	9	2.06
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	6	2.05
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	20	2.05
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	9	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	10	2.05
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	13	2.04
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	5	2.04
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	18	2.04
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	16	2.04
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	5	2.04
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	17	2.03
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	8	2.03
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	13	2.03
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	13	2.03
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	2	2.03
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	6	2.03
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	12	2.02
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	5	2.02
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	6	2.02
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	7	2.02
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	8	2.01
(1,270)	1:A:45:ARG:H	1:A:51:SER:CB	14	2.01
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	19	2.01
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	19	2.01
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	7	2.01
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	4	2.01
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	7	2.01
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	17	2.01
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	2	2.0
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	12	2.0
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	15	2.0
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	20	2.0
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	19	1.99
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	5	1.99
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	2	1.98
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	15	1.98
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	17	1.98
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	20	1.98
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	1	1.98
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	2	1.98
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	10	1.97
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	9	1.97
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	3	1.97
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	15	1.97
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	7	1.97
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	4	1.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	7	1.96
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	18	1.96
(1,333)	1:A:58:SER:CB	1:A:73:VAL:H	18	1.96
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	5	1.96
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	20	1.96
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	3	1.96
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	3	1.96
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	11	1.96
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	18	1.96
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	19	1.96
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	20	1.95
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	3	1.95
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	3	1.95
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	9	1.95
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	9	1.95
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	17	1.95
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	5	1.95
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	2	1.95
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	7	1.95
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	20	1.94
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	1	1.94
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	1	1.94
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	15	1.94
(1,190)	1:A:34:GLY:H	1:A:71:CYS:CB	17	1.94
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	9	1.94
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	13	1.94
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	6	1.93
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	7	1.93
(1,295)	1:A:51:SER:CB	1:A:78:LEU:H	6	1.93
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	10	1.93
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	2	1.93
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	8	1.93
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	6	1.93
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	1	1.93
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	18	1.93
(1,158)	1:A:28:SER:CB	1:A:82:TYR:H	4	1.93
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	11	1.92
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	4	1.92
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	13	1.92
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	2	1.92
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	10	1.92
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	7	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,224)	1:A:38:CYS:CB	1:A:69:GLN:H	16	1.92
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	12	1.92
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	8	1.92
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	7	1.92
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	18	1.92
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	20	1.91
(1,288)	1:A:51:SER:CB	1:A:65:ARG:H	20	1.91
(1,286)	1:A:51:SER:CB	1:A:62:ILE:H	2	1.91
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	11	1.91
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	16	1.91
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	7	1.91
(2,1)	1:A:28:SER:CB	1:A:31:VAL:H	15	1.9
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	7	1.9
(1,68)	1:A:16:CYS:H	1:A:86:SER:CB	5	1.9
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	13	1.9
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	4	1.9
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	11	1.9
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	14	1.9
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	4	1.9
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	16	1.9
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	13	1.89
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	19	1.89
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	7	1.89
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	7	1.89
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	2	1.89
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	14	1.89
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	20	1.89
(1,200)	1:A:37:GLY:H	1:A:86:SER:CB	1	1.89
(1,121)	1:A:28:SER:CB	1:A:40:VAL:H	15	1.89
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	2	1.88
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	7	1.88
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	20	1.88
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	5	1.88
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	18	1.88
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	14	1.88
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	14	1.88
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	7	1.87
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	4	1.87
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	18	1.87
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	9	1.87
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	14	1.87
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	9	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	14	1.86
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	10	1.86
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	2	1.86
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	5	1.86
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	12	1.86
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	7	1.86
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	18	1.86
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	8	1.86
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	5	1.85
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	7	1.85
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	11	1.85
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	6	1.85
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	14	1.84
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	12	1.84
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	13	1.84
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	13	1.84
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	19	1.84
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	9	1.84
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	3	1.84
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	3	1.83
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	20	1.83
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	7	1.83
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	18	1.83
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	2	1.83
(1,216)	1:A:38:CYS:CB	1:A:61:LEU:H	2	1.83
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	3	1.83
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	12	1.83
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	1	1.82
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	12	1.82
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	20	1.82
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	4	1.82
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	17	1.82
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	7	1.82
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	4	1.82
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	18	1.82
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	1	1.81
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	19	1.81
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	4	1.81
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	16	1.81
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	16	1.8
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	1	1.8
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	2	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	13	1.79
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	3	1.79
(1,401)	1:A:80:ALA:H	1:A:86:SER:CB	14	1.79
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	19	1.79
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	1	1.79
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	8	1.79
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	9	1.79
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	8	1.78
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	19	1.78
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	18	1.78
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	4	1.78
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	10	1.78
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	17	1.78
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	2	1.77
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	8	1.77
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	14	1.77
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	14	1.77
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	9	1.77
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	2	1.77
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	16	1.76
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	4	1.76
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	13	1.76
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	10	1.76
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	18	1.76
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	11	1.75
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	14	1.75
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	9	1.75
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	5	1.75
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	10	1.75
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	4	1.75
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	5	1.75
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	6	1.75
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	12	1.75
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	17	1.75
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	20	1.75
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	1	1.74
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	1	1.74
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	7	1.74
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	4	1.74
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	14	1.74
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	2	1.74
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	3	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	5	1.74
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	16	1.74
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	7	1.73
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	16	1.73
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	8	1.73
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	12	1.72
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	12	1.72
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	13	1.72
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	3	1.71
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	15	1.71
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	3	1.71
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	18	1.71
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	17	1.71
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	7	1.71
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	14	1.71
(1,176)	1:A:30:LEU:H	1:A:38:CYS:CB	16	1.71
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	11	1.7
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	3	1.7
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	14	1.7
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	14	1.7
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	6	1.7
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	1	1.7
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	16	1.69
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	5	1.69
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	5	1.69
(1,22)	1:A:5:ARG:H	1:A:58:SER:CB	4	1.69
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	4	1.69
(1,160)	1:A:28:SER:CB	1:A:84:MET:H	6	1.69
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	16	1.68
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	20	1.68
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	12	1.68
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	8	1.68
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	10	1.68
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	10	1.68
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	20	1.68
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	6	1.67
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	15	1.67
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	17	1.67
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	5	1.67
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	17	1.67
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	4	1.66
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	15	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,366)	1:A:63:HIS:H	1:A:86:SER:CB	15	1.65
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	19	1.65
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	8	1.65
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	13	1.65
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	11	1.65
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	10	1.65
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	10	1.65
(1,55)	1:A:13:ASP:H	1:A:86:SER:CB	1	1.64
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	5	1.64
(1,399)	1:A:78:LEU:H	1:A:86:SER:CB	3	1.64
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	18	1.64
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	6	1.64
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	5	1.64
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	2	1.64
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	5	1.64
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	19	1.64
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	11	1.64
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	5	1.63
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	15	1.63
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	20	1.63
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	13	1.63
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	8	1.63
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	13	1.63
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	12	1.62
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	14	1.62
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	5	1.62
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	6	1.62
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	17	1.62
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	11	1.62
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	6	1.62
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	8	1.62
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	20	1.62
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	7	1.61
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	13	1.61
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	9	1.61
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	18	1.61
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	12	1.61
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	3	1.61
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	2	1.6
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	6	1.6
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	17	1.6
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	12	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	9	1.6
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	19	1.6
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	8	1.6
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	20	1.6
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	8	1.6
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	5	1.6
(1,198)	1:A:36:GLY:H	1:A:86:SER:CB	19	1.6
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	3	1.6
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	9	1.6
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	3	1.59
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	17	1.59
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	20	1.59
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	4	1.59
(1,188)	1:A:34:GLY:H	1:A:51:SER:CB	14	1.59
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	14	1.58
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	12	1.58
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	8	1.58
(1,256)	1:A:40:VAL:H	1:A:58:SER:CB	10	1.58
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	3	1.58
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	8	1.57
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	12	1.57
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	13	1.57
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	3	1.57
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	7	1.57
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	13	1.57
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	8	1.56
(1,34)	1:A:7:TRP:H	1:A:58:SER:CB	6	1.56
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	18	1.56
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	8	1.56
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	13	1.56
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	9	1.56
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	14	1.55
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	16	1.55
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	6	1.55
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	3	1.55
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	16	1.55
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	7	1.54
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	7	1.54
(2,3)	1:A:64:THR:H	1:A:71:CYS:CB	15	1.53
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	6	1.53
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	14	1.53
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	5	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	1	1.53
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	20	1.53
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	1	1.53
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	6	1.53
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	4	1.53
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	8	1.53
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	14	1.52
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	7	1.52
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	4	1.52
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	19	1.52
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	20	1.52
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	15	1.52
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	14	1.52
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	11	1.52
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	15	1.52
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	8	1.51
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	3	1.51
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	13	1.51
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	20	1.5
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	14	1.5
(1,142)	1:A:28:SER:CB	1:A:66:VAL:H	9	1.5
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	14	1.49
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	12	1.49
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	8	1.49
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	20	1.49
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	15	1.49
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	15	1.49
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	10	1.48
(1,48)	1:A:12:ASP:H	1:A:58:SER:CB	6	1.48
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	10	1.48
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	7	1.47
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	20	1.47
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	18	1.47
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	4	1.47
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	11	1.47
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	12	1.47
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	4	1.46
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	5	1.46
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	9	1.46
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	8	1.46
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	5	1.46
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	9	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	9	1.46
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	18	1.45
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	11	1.45
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	18	1.45
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	19	1.44
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	7	1.44
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	9	1.43
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	18	1.43
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	2	1.43
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	5	1.43
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	6	1.43
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	1	1.43
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	7	1.43
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	10	1.43
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	2	1.42
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	3	1.42
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	13	1.42
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	11	1.42
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	2	1.41
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	3	1.41
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	16	1.41
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	7	1.41
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	2	1.41
(1,123)	1:A:28:SER:CB	1:A:43:ALA:H	3	1.41
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	2	1.4
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	11	1.4
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	14	1.4
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	1	1.4
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	17	1.4
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	4	1.4
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	3	1.39
(1,364)	1:A:62:ILE:H	1:A:71:CYS:CB	11	1.39
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	15	1.39
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	18	1.39
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	10	1.39
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	10	1.38
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	2	1.38
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	10	1.38
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	2	1.37
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	9	1.37
(1,63)	1:A:15:ASP:H	1:A:58:SER:CB	9	1.36
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	14	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	7	1.36
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	15	1.36
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	19	1.36
(1,10)	1:A:3:ALA:H	1:A:58:SER:CB	4	1.36
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	9	1.35
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	18	1.35
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	13	1.35
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	18	1.35
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	12	1.35
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	7	1.35
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	16	1.35
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	1	1.34
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	14	1.34
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	12	1.33
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	4	1.33
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	17	1.33
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	2	1.33
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	1	1.33
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	6	1.33
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	8	1.33
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	18	1.33
(1,54)	1:A:13:ASP:H	1:A:58:SER:CB	9	1.32
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	12	1.32
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	6	1.32
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	15	1.32
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	17	1.32
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	1	1.32
(1,11)	1:A:3:ALA:H	1:A:71:CYS:CB	16	1.32
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	6	1.31
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	20	1.31
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	20	1.31
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	2	1.31
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	6	1.31
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	3	1.31
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	10	1.31
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	2	1.31
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	20	1.31
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	1	1.31
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	3	1.31
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	7	1.31
(1,46)	1:A:12:ASP:H	1:A:38:CYS:CB	19	1.3
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	11	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	3	1.3
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	5	1.3
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	2	1.3
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	9	1.3
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	10	1.3
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	19	1.3
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	13	1.3
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	4	1.3
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	11	1.29
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	7	1.29
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	20	1.29
(1,260)	1:A:41:VAL:H	1:A:86:SER:CB	15	1.29
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	5	1.29
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	1	1.28
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	17	1.28
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	4	1.28
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	12	1.28
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	7	1.28
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	17	1.28
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	4	1.28
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	1	1.27
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	7	1.27
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	20	1.27
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	13	1.26
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	11	1.26
(1,290)	1:A:51:SER:CB	1:A:69:GLN:H	16	1.26
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	10	1.26
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	6	1.26
(1,232)	1:A:38:CYS:CB	1:A:76:ILE:H	18	1.26
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	12	1.26
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	6	1.26
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	11	1.25
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	19	1.25
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	2	1.25
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	14	1.25
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	9	1.24
(1,206)	1:A:38:CYS:H	1:A:51:SER:CB	14	1.24
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	20	1.23
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	6	1.23
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	20	1.23
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	13	1.23
(1,231)	1:A:38:CYS:CB	1:A:75:ALA:H	16	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	12	1.22
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	1	1.21
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	6	1.21
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	18	1.21
(1,226)	1:A:38:CYS:CB	1:A:71:CYS:H	16	1.21
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	7	1.21
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	20	1.2
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	1	1.2
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	8	1.2
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	18	1.2
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	16	1.2
(1,16)	1:A:4:ASN:H	1:A:58:SER:CB	8	1.2
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	12	1.2
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	15	1.19
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	18	1.19
(1,37)	1:A:8:TRP:H	1:A:28:SER:CB	5	1.18
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	8	1.18
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	15	1.18
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	4	1.18
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	20	1.18
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	2	1.18
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	14	1.18
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	17	1.18
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	18	1.18
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	18	1.18
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	12	1.17
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	19	1.17
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	10	1.17
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	20	1.17
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	2	1.17
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	8	1.17
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	14	1.17
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	9	1.16
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	17	1.16
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	9	1.16
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	20	1.16
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	11	1.15
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	19	1.15
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	7	1.15
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	12	1.15
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	2	1.15
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	5	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	17	1.15
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	4	1.15
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	11	1.15
(1,50)	1:A:12:ASP:H	1:A:86:SER:CB	19	1.14
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	18	1.14
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	8	1.14
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	15	1.14
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	4	1.14
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	9	1.14
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	15	1.14
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	11	1.14
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	7	1.13
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	1	1.13
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	1	1.13
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	14	1.13
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	12	1.13
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	10	1.12
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	15	1.12
(1,250)	1:A:38:CYS:CB	1:A:97:GLY:H	5	1.12
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	1	1.12
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	17	1.12
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	9	1.12
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	12	1.11
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	10	1.1
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	20	1.1
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	6	1.1
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	13	1.09
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	14	1.09
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	17	1.09
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	14	1.09
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	6	1.09
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	16	1.09
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	3	1.09
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	13	1.09
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	4	1.09
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	2	1.09
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	19	1.08
(1,336)	1:A:58:SER:CB	1:A:76:ILE:H	18	1.08
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	17	1.08
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	10	1.08
(1,7)	1:A:3:ALA:H	1:A:28:SER:CB	10	1.07
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	4	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	9	1.07
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	9	1.07
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	2	1.07
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	20	1.07
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	7	1.07
(1,81)	1:A:19:GLU:H	1:A:28:SER:CB	17	1.06
(1,38)	1:A:8:TRP:H	1:A:58:SER:CB	4	1.06
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	8	1.06
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	8	1.05
(1,251)	1:A:38:CYS:CB	1:A:98:GLU:H	14	1.05
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	2	1.05
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	6	1.05
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	6	1.04
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	5	1.04
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	20	1.04
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	2	1.04
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	12	1.04
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	3	1.04
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	13	1.04
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	5	1.04
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	13	1.04
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	8	1.04
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	10	1.04
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	5	1.03
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	6	1.03
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	9	1.03
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	13	1.03
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	4	1.02
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	15	1.02
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	9	1.02
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	16	1.02
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	17	1.02
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	5	1.02
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	3	1.02
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	1	1.02
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	5	1.01
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	8	1.01
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	18	1.01
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	19	1.01
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	2	1.01
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	11	1.01
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	9	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	5	1.01
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	9	1.01
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	8	1.01
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	6	1.0
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	18	1.0
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	1	1.0
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	16	1.0
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	13	0.99
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	17	0.99
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	8	0.99
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	9	0.99
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	14	0.99
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	18	0.99
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	6	0.99
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	2	0.99
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	18	0.99
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	5	0.99
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	19	0.98
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	20	0.98
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	7	0.98
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	17	0.98
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	4	0.97
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	10	0.97
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	13	0.97
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	10	0.97
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	10	0.97
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	11	0.97
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	2	0.97
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	15	0.97
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	2	0.97
(1,42)	1:A:9:VAL:H	1:A:58:SER:CB	8	0.96
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	11	0.96
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	4	0.96
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	1	0.96
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	15	0.96
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	13	0.96
(1,362)	1:A:60:HIS:H	1:A:71:CYS:CB	2	0.95
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	20	0.95
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	17	0.95
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	4	0.95
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	18	0.95
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	20	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	7	0.95
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	18	0.94
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	4	0.94
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	10	0.94
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	8	0.94
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	14	0.94
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	9	0.94
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	13	0.94
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	3	0.94
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	3	0.94
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	1	0.93
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	18	0.93
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	19	0.93
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	20	0.93
(1,201)	1:A:38:CYS:CB	1:A:44:TYR:H	14	0.93
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	5	0.93
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	6	0.92
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	8	0.92
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	10	0.92
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	1	0.92
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	10	0.92
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	12	0.92
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	16	0.92
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	16	0.92
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	9	0.92
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	8	0.91
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	1	0.91
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	11	0.91
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	16	0.91
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	20	0.91
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	11	0.91
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	18	0.91
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	10	0.91
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	2	0.9
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	8	0.9
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	13	0.9
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	9	0.89
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	11	0.89
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	5	0.89
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	16	0.89
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	15	0.89
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	1	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	16	0.89
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	5	0.89
(1,17)	1:A:4:ASN:H	1:A:71:CYS:CB	3	0.89
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	19	0.89
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	10	0.88
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	8	0.88
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	4	0.88
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	20	0.88
(1,79)	1:A:18:SER:H	1:A:71:CYS:CB	16	0.87
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	5	0.87
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	11	0.87
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	6	0.87
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	18	0.87
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	13	0.86
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	11	0.86
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	19	0.86
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	13	0.86
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	19	0.86
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	8	0.85
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	16	0.85
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	5	0.85
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	6	0.84
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	12	0.84
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	12	0.84
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	18	0.84
(1,28)	1:A:6:ARG:H	1:A:58:SER:CB	4	0.84
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	6	0.84
(1,230)	1:A:38:CYS:CB	1:A:74:GLY:H	6	0.84
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	8	0.84
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	14	0.84
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	3	0.84
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	7	0.83
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	2	0.83
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	10	0.83
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	7	0.83
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	8	0.82
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	2	0.82
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	7	0.82
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	10	0.82
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	20	0.82
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	10	0.82
(1,40)	1:A:9:VAL:H	1:A:28:SER:CB	19	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	17	0.81
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	10	0.81
(1,25)	1:A:6:ARG:H	1:A:28:SER:CB	10	0.81
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	7	0.81
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	1	0.81
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	7	0.81
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	8	0.81
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	15	0.81
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	16	0.81
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	16	0.8
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	1	0.8
(1,285)	1:A:51:SER:CB	1:A:60:HIS:H	2	0.8
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	15	0.8
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	6	0.8
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	9	0.79
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	19	0.79
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	9	0.79
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	12	0.79
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	12	0.79
(1,118)	1:A:28:SER:CB	1:A:38:CYS:H	15	0.79
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	17	0.78
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	2	0.78
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	4	0.78
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	15	0.78
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	9	0.77
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	5	0.77
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	11	0.77
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	17	0.77
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	7	0.77
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	14	0.77
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	18	0.76
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	5	0.76
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	3	0.76
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	6	0.76
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	13	0.76
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	17	0.76
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	5	0.75
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	7	0.75
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	2	0.75
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	9	0.75
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	2	0.74
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	8	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	18	0.74
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	4	0.74
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	13	0.74
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	11	0.74
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	1	0.74
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	5	0.73
(1,403)	1:A:86:SER:CB	1:A:99:LYS:H	10	0.73
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	2	0.73
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	15	0.73
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	14	0.72
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	14	0.72
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	2	0.72
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	16	0.72
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	10	0.72
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	3	0.72
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	11	0.72
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	19	0.72
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	5	0.72
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	4	0.71
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	15	0.71
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	12	0.71
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	11	0.71
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	19	0.71
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	10	0.71
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	5	0.7
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	6	0.7
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	3	0.7
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	15	0.7
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	1	0.7
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	16	0.7
(1,172)	1:A:28:SER:CB	1:A:96:ALA:H	11	0.7
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	8	0.7
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	17	0.7
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	20	0.69
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	20	0.69
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	9	0.69
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	9	0.69
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	18	0.69
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	5	0.69
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	5	0.69
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	3	0.68
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	19	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	17	0.68
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	13	0.68
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	19	0.68
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	19	0.67
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	13	0.67
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	11	0.67
(1,179)	1:A:30:LEU:H	1:A:86:SER:CB	12	0.67
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	17	0.66
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	7	0.66
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	14	0.66
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	11	0.66
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	9	0.66
(1,236)	1:A:38:CYS:CB	1:A:81:VAL:H	10	0.66
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	12	0.66
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	19	0.66
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	19	0.66
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	14	0.66
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	20	0.65
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	12	0.65
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	8	0.65
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	3	0.65
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	2	0.64
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	6	0.64
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	15	0.64
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	4	0.64
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	4	0.64
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	19	0.64
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	9	0.64
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	18	0.63
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	8	0.63
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	6	0.63
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	3	0.63
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	7	0.63
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	13	0.63
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	19	0.62
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	3	0.62
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	2	0.62
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	16	0.62
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	17	0.62
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	19	0.62
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	1	0.62
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	14	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	10	0.61
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	6	0.61
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	20	0.61
(1,183)	1:A:33:ILE:H	1:A:38:CYS:CB	4	0.61
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	9	0.6
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	1	0.6
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	14	0.59
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	8	0.59
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	7	0.59
(1,287)	1:A:51:SER:CB	1:A:64:THR:H	16	0.59
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	10	0.59
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	11	0.59
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	5	0.58
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	1	0.58
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	11	0.58
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	10	0.58
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	8	0.58
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	2	0.58
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	12	0.58
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	3	0.58
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	1	0.57
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	9	0.57
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	16	0.57
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	19	0.57
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	18	0.57
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	20	0.57
(1,171)	1:A:28:SER:CB	1:A:95:ASP:H	20	0.57
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	7	0.57
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	12	0.57
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	8	0.56
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	14	0.56
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	17	0.56
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	12	0.56
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	8	0.55
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	2	0.55
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	4	0.55
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	13	0.55
(1,252)	1:A:38:CYS:CB	1:A:99:LYS:H	8	0.55
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	9	0.55
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	8	0.55
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	9	0.55
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	4	0.54
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	13	0.54
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	6	0.54
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	18	0.53
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	1	0.53
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	3	0.53
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	14	0.53
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	5	0.53
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	2	0.53
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	14	0.53
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	17	0.53
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	11	0.52
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	12	0.52
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	2	0.52
(1,219)	1:A:38:CYS:CB	1:A:64:THR:H	15	0.52
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	8	0.52
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	13	0.51
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	14	0.51
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	11	0.51
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	18	0.51
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	17	0.51
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	6	0.51
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	10	0.5
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	3	0.5
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	9	0.5
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	6	0.5
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	3	0.5
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	2	0.49
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	8	0.49
(1,322)	1:A:55:THR:H	1:A:71:CYS:CB	4	0.49
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	7	0.49
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	9	0.49
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	10	0.49
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	17	0.49
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	2	0.49
(1,117)	1:A:28:SER:CB	1:A:37:GLY:H	20	0.49
(1,375)	1:A:71:CYS:CB	1:A:77:MET:H	10	0.48
(1,341)	1:A:58:SER:CB	1:A:82:TYR:H	8	0.48
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	20	0.48
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	2	0.48
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	7	0.48
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	6	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,117)	1:A:28:SER:CB	1:A:37:GLY:H	16	0.48
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	3	0.48
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	17	0.47
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	5	0.47
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	7	0.47
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	17	0.47
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	17	0.47
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	9	0.47
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	12	0.47
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	16	0.46
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	20	0.46
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	14	0.45
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	10	0.45
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	4	0.45
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	18	0.45
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	12	0.45
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	19	0.45
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	14	0.45
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	14	0.44
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	15	0.44
(1,238)	1:A:38:CYS:CB	1:A:83:THR:H	16	0.44
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	18	0.44
(1,210)	1:A:38:CYS:CB	1:A:55:THR:H	8	0.44
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	5	0.44
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	9	0.44
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	13	0.44
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	20	0.44
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	7	0.43
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	3	0.43
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	4	0.43
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	16	0.43
(1,291)	1:A:51:SER:CB	1:A:70:ALA:H	6	0.43
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	16	0.43
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	20	0.43
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	3	0.42
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	4	0.42
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	1	0.42
(1,29)	1:A:6:ARG:H	1:A:71:CYS:CB	18	0.42
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	9	0.42
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	6	0.42
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	20	0.41
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	6	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	9	0.41
(1,360)	1:A:59:ILE:H	1:A:71:CYS:CB	12	0.4
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	3	0.4
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	10	0.4
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	20	0.39
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	14	0.39
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	7	0.39
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	13	0.39
(1,122)	1:A:28:SER:CB	1:A:41:VAL:H	13	0.39
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	4	0.38
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	17	0.38
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	15	0.38
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	4	0.38
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	6	0.38
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	17	0.37
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	19	0.37
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	8	0.37
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	14	0.37
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	16	0.37
(1,116)	1:A:28:SER:CB	1:A:34:GLY:H	12	0.37
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	4	0.36
(1,57)	1:A:14:GLU:H	1:A:38:CYS:CB	1	0.36
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	11	0.36
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	3	0.36
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	10	0.36
(1,212)	1:A:38:CYS:CB	1:A:57:MET:H	7	0.36
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	11	0.36
(1,292)	1:A:51:SER:CB	1:A:71:CYS:H	16	0.35
(1,98)	1:A:22:LEU:H	1:A:71:CYS:CB	16	0.34
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	9	0.34
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	16	0.34
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	16	0.33
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	16	0.33
(1,211)	1:A:38:CYS:CB	1:A:56:LYS:H	14	0.33
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	5	0.32
(1,5)	1:A:2:SER:H	1:A:71:CYS:CB	20	0.32
(1,289)	1:A:51:SER:CB	1:A:68:ALA:H	16	0.32
(1,272)	1:A:45:ARG:H	1:A:71:CYS:CB	5	0.32
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	11	0.32
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	14	0.32
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	6	0.32
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	16	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	9	0.32
(1,192)	1:A:35:LEU:H	1:A:51:SER:CB	14	0.32
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	8	0.32
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	1	0.31
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	3	0.31
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	17	0.31
(1,4)	1:A:2:SER:H	1:A:58:SER:CB	4	0.31
(1,248)	1:A:38:CYS:CB	1:A:95:ASP:H	8	0.31
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	18	0.31
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	10	0.3
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	15	0.3
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	19	0.3
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	4	0.3
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	10	0.3
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	6	0.3
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	19	0.3
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	12	0.3
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	6	0.3
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	17	0.3
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	15	0.3
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	7	0.3
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	6	0.3
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	11	0.3
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	16	0.3
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	17	0.3
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	19	0.3
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	11	0.3
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	15	0.3
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	12	0.3
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	16	0.3
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	17	0.3
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	5	0.29
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	12	0.29
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	20	0.29
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	7	0.29
(4,34)	1:A:77:MET:O	1:A:81:VAL:N	14	0.29
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	16	0.29
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	4	0.29
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	4	0.29
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	15	0.29
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	15	0.29
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	13	0.29
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	3	0.29
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	11	0.29
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	16	0.29
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	20	0.29
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	11	0.29
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	3	0.29
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	12	0.29
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	17	0.29
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	2	0.29
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	8	0.29
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	10	0.29
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	17	0.29
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	18	0.29
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	20	0.29
(1,261)	1:A:42:ALA:H	1:A:51:SER:CB	20	0.29
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	3	0.29
(1,234)	1:A:38:CYS:CB	1:A:79:GLY:H	17	0.29
(1,209)	1:A:38:CYS:CB	1:A:54:SER:H	1	0.29
(1,117)	1:A:28:SER:CB	1:A:37:GLY:H	14	0.29
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	2	0.28
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	2	0.28
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	19	0.28
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	19	0.28
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	4	0.28
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	13	0.28
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	8	0.28
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	20	0.28
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	7	0.28
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	13	0.28
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	19	0.28
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	10	0.28
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	12	0.28
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	9	0.28
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	4	0.28
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	9	0.28
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	14	0.28
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	18	0.28
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	16	0.28
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	2	0.28
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	6	0.28
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	11	0.28
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	14	0.28
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	7	0.28
(1,69)	1:A:17:VAL:H	1:A:28:SER:CB	19	0.28
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	4	0.28
(1,117)	1:A:28:SER:CB	1:A:37:GLY:H	4	0.28
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	7	0.27
(4,38)	1:A:81:VAL:O	1:A:85:TYR:N	14	0.27
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	9	0.27
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	9	0.27
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	17	0.27
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	11	0.27
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	4	0.27
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	15	0.27
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	9	0.27
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	10	0.27
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	18	0.27
(1,51)	1:A:13:ASP:H	1:A:28:SER:CB	5	0.27
(1,328)	1:A:58:SER:CB	1:A:66:VAL:H	14	0.27
(1,297)	1:A:51:SER:CB	1:A:80:ALA:H	13	0.27
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	8	0.27
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	19	0.27
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	5	0.27
(1,23)	1:A:5:ARG:H	1:A:71:CYS:CB	5	0.27
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	1	0.26
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	5	0.26
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	10	0.26
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	15	0.26
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	1	0.26
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	6	0.26
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	9	0.26
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	4	0.26
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	9	0.26
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	15	0.26
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	5	0.26
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	8	0.26
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	3	0.26
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	4	0.26
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	10	0.26
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	13	0.26
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	10	0.26
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	16	0.26
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	17	0.26
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	19	0.26
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	6	0.26
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	14	0.26
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	1	0.26
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	13	0.26
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	3	0.26
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	8	0.26
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	4	0.26
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	10	0.26
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	8	0.26
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	9	0.26
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	1	0.26
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	4	0.26
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	18	0.26
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	20	0.26
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	5	0.26
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	1	0.26
(1,363)	1:A:61:LEU:H	1:A:71:CYS:CB	11	0.26
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	3	0.26
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	12	0.26
(1,247)	1:A:38:CYS:CB	1:A:94:GLN:H	12	0.26
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	9	0.25
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	20	0.25
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	17	0.25
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	19	0.25
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	11	0.25
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	5	0.25
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	8	0.25
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	7	0.25
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	14	0.25
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	19	0.25
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	13	0.25
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	16	0.25
(4,35)	1:A:78:LEU:O	1:A:82:TYR:N	17	0.25
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	15	0.25
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	2	0.25
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	12	0.25
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	5	0.25
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	10	0.25
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	14	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	15	0.25
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	3	0.25
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	7	0.25
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	6	0.25
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	4	0.25
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	11	0.25
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	18	0.25
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	20	0.25
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	12	0.25
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	4	0.25
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	3	0.25
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	10	0.25
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	17	0.25
(1,215)	1:A:38:CYS:CB	1:A:59:ILE:H	14	0.25
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	9	0.25
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	8	0.24
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	13	0.24
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	5	0.24
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	12	0.24
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	6	0.24
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	13	0.24
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	17	0.24
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	18	0.24
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	2	0.24
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	10	0.24
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	1	0.24
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	12	0.24
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	14	0.24
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	11	0.24
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	1	0.24
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	20	0.24
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	17	0.24
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	18	0.24
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	3	0.24
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	19	0.24
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	9	0.24
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	19	0.24
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	8	0.24
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	2	0.24
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	16	0.24
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	10	0.24
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	7	0.24
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	14	0.24
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	14	0.24
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	16	0.24
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	1	0.24
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	4	0.23
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	6	0.23
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	12	0.23
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	3	0.23
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	6	0.23
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	9	0.23
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	18	0.23
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	6	0.23
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	6	0.23
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	5	0.23
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	17	0.23
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	3	0.23
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	12	0.23
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	14	0.23
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	6	0.23
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	5	0.23
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	7	0.23
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	2	0.23
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	2	0.23
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	15	0.23
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	19	0.23
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	7	0.23
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	9	0.23
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	12	0.23
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	15	0.23
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	7	0.23
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	13	0.23
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	11	0.23
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	9	0.23
(1,213)	1:A:38:CYS:CB	1:A:58:SER:H	14	0.23
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	14	0.23
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	16	0.22
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	4	0.22
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	9	0.22
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	4	0.22
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	11	0.22
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	12	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	17	0.22
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	18	0.22
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	9	0.22
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	10	0.22
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	20	0.22
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	10	0.22
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	13	0.22
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	17	0.22
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	12	0.22
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	5	0.22
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	11	0.22
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	13	0.22
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	16	0.22
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	20	0.22
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	4	0.22
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	8	0.22
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	11	0.22
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	14	0.22
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	5	0.22
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	4	0.22
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	9	0.22
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	13	0.22
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	16	0.22
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	8	0.22
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	19	0.22
(1,49)	1:A:12:ASP:H	1:A:71:CYS:CB	6	0.22
(1,244)	1:A:38:CYS:CB	1:A:90:LYS:H	15	0.22
(1,112)	1:A:26:ARG:H	1:A:86:SER:CB	1	0.22
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	11	0.21
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	16	0.21
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	17	0.21
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	16	0.21
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	11	0.21
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	3	0.21
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	10	0.21
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	4	0.21
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	8	0.21
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	13	0.21
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	4	0.21
(4,30)	1:A:73:VAL:O	1:A:77:MET:N	7	0.21
(4,30)	1:A:73:VAL:O	1:A:77:MET:N	15	0.21
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	2	0.21
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	16	0.21
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	13	0.21
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	18	0.21
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	15	0.21
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	2	0.21
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	12	0.21
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	9	0.21
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	10	0.21
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	10	0.21
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	13	0.21
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	7	0.21
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	13	0.21
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	20	0.21
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	17	0.21
(1,340)	1:A:58:SER:CB	1:A:81:VAL:H	10	0.21
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	19	0.21
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	13	0.21
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	15	0.21
(4,8)	1:A:33:ILE:O	1:A:37:GLY:N	18	0.2
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	10	0.2
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	1	0.2
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	11	0.2
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	1	0.2
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	5	0.2
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	16	0.2
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	11	0.2
(4,31)	1:A:74:GLY:O	1:A:78:LEU:N	11	0.2
(4,30)	1:A:73:VAL:O	1:A:77:MET:N	4	0.2
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	8	0.2
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	3	0.2
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	5	0.2
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	7	0.2
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	20	0.2
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	8	0.2
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	1	0.2
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	11	0.2
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	6	0.2
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	11	0.2
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	1	0.2
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	17	0.2
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	14	0.2
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	2	0.2
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	4	0.2
(2,4)	1:A:69:GLN:H	1:A:71:CYS:CB	16	0.2
(1,249)	1:A:38:CYS:CB	1:A:96:ALA:H	11	0.2
(1,245)	1:A:38:CYS:CB	1:A:91:ARG:H	15	0.2
(1,117)	1:A:28:SER:CB	1:A:37:GLY:H	8	0.2
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	1	0.19
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	6	0.19
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	9	0.19
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	8	0.19
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	13	0.19
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	1	0.19
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	4	0.19
(4,34)	1:A:77:MET:O	1:A:81:VAL:N	7	0.19
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	6	0.19
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	4	0.19
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	13	0.19
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	18	0.19
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	8	0.19
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	7	0.19
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	5	0.19
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	6	0.19
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	2	0.19
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	14	0.19
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	19	0.19
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	16	0.19
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	5	0.19
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	7	0.19
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	10	0.19
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	13	0.19
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	7	0.19
(1,233)	1:A:38:CYS:CB	1:A:77:MET:H	6	0.19
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	8	0.18
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	13	0.18
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	14	0.18
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	2	0.18
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	2	0.18
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	15	0.18
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	19	0.18
(4,31)	1:A:74:GLY:O	1:A:78:LEU:N	8	0.18
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,28)	1:A:71:CYS:O	1:A:75:ALA:N	15	0.18
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	1	0.18
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	9	0.18
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	11	0.18
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	1	0.18
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	18	0.18
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	12	0.18
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	17	0.18
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	17	0.18
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	18	0.18
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	20	0.18
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	9	0.18
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	1	0.18
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	3	0.18
(1,255)	1:A:39:LEU:H	1:A:86:SER:CB	14	0.18
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	3	0.18
(1,105)	1:A:25:THR:H	1:A:28:SER:CB	20	0.18
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	18	0.17
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	3	0.17
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	9	0.17
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	18	0.17
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	14	0.17
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	2	0.17
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	6	0.17
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	18	0.17
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	20	0.17
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	1	0.17
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	20	0.17
(4,29)	1:A:72:ALA:O	1:A:76:ILE:N	7	0.17
(4,26)	1:A:69:GLN:O	1:A:73:VAL:N	19	0.17
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	11	0.17
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	1	0.17
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	9	0.17
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	12	0.17
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	18	0.17
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	16	0.17
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	10	0.17
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	13	0.17
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	5	0.17
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	11	0.17
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	2	0.17
(4,11)	1:A:36:GLY:O	1:A:40:VAL:N	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	13	0.17
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	3	0.17
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	12	0.17
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	10	0.17
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	2	0.17
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	8	0.17
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	11	0.17
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	3	0.16
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	3	0.16
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	6	0.16
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	18	0.16
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	20	0.16
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	5	0.16
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	10	0.16
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	11	0.16
(4,26)	1:A:69:GLN:O	1:A:73:VAL:N	15	0.16
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	19	0.16
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	10	0.16
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	19	0.16
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	3	0.16
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	10	0.16
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	18	0.16
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	5	0.16
(4,12)	1:A:37:GLY:O	1:A:41:VAL:N	19	0.16
(1,88)	1:A:20:LYS:H	1:A:71:CYS:CB	20	0.16
(1,246)	1:A:38:CYS:CB	1:A:93:ALA:H	14	0.16
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	9	0.16
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	7	0.15
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	13	0.15
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	7	0.15
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	18	0.15
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	19	0.15
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	20	0.15
(4,36)	1:A:79:GLY:O	1:A:83:THR:N	14	0.15
(4,35)	1:A:78:LEU:O	1:A:82:TYR:N	2	0.15
(4,34)	1:A:77:MET:O	1:A:81:VAL:N	15	0.15
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	2	0.15
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	7	0.15
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	17	0.15
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	17	0.15
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	10	0.15
(4,2)	1:A:18:SER:O	1:A:22:LEU:N	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	12	0.15
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	5	0.15
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	13	0.15
(4,10)	1:A:35:LEU:O	1:A:39:LEU:N	16	0.15
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	14	0.15
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	2	0.14
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	14	0.14
(4,6)	1:A:31:VAL:O	1:A:35:LEU:N	16	0.14
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	16	0.14
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	17	0.14
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	1	0.14
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	3	0.14
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	3	0.14
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	7	0.14
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	13	0.14
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	6	0.14
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	4	0.14
(4,18)	1:A:43:ALA:O	1:A:47:TYR:N	13	0.14
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	15	0.14
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	16	0.14
(1,73)	1:A:17:VAL:H	1:A:71:CYS:CB	10	0.14
(1,296)	1:A:51:SER:CB	1:A:79:GLY:H	13	0.14
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	17	0.14
(1,214)	1:A:38:CYS:H	1:A:58:SER:CB	17	0.14
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	14	0.13
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	3	0.13
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	1	0.13
(4,39)	1:A:82:TYR:O	1:A:86:SER:N	9	0.13
(4,30)	1:A:73:VAL:O	1:A:77:MET:N	12	0.13
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	1	0.13
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	2	0.13
(4,21)	1:A:46:ILE:O	1:A:50:ARG:N	9	0.13
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	4	0.13
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	5	0.13
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	16	0.13
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	8	0.13
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	17	0.13
(4,1)	1:A:17:VAL:O	1:A:21:LEU:N	5	0.13
(1,35)	1:A:7:TRP:H	1:A:71:CYS:CB	3	0.13
(1,339)	1:A:58:SER:CB	1:A:80:ALA:H	10	0.13
(1,299)	1:A:51:SER:CB	1:A:82:TYR:H	6	0.13
(1,298)	1:A:51:SER:CB	1:A:81:VAL:H	13	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	6	0.13
(1,235)	1:A:38:CYS:CB	1:A:80:ALA:H	6	0.13
(4,7)	1:A:32:PRO:O	1:A:36:GLY:N	7	0.12
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	2	0.12
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	12	0.12
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	20	0.12
(4,40)	1:A:83:THR:O	1:A:87:ASP:N	20	0.12
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	8	0.12
(4,4)	1:A:20:LYS:O	1:A:24:LYS:N	15	0.12
(4,35)	1:A:78:LEU:O	1:A:82:TYR:N	10	0.12
(4,33)	1:A:76:ILE:O	1:A:80:ALA:N	19	0.12
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	14	0.12
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	11	0.12
(4,28)	1:A:71:CYS:O	1:A:75:ALA:N	7	0.12
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	2	0.12
(4,25)	1:A:68:ALA:O	1:A:72:ALA:N	14	0.12
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	12	0.12
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	16	0.12
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	1	0.12
(4,20)	1:A:45:ARG:O	1:A:49:LEU:N	20	0.12
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	12	0.12
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	13	0.12
(1,368)	1:A:65:ARG:H	1:A:71:CYS:CB	15	0.12
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	4	0.12
(1,239)	1:A:38:CYS:CB	1:A:86:SER:H	9	0.12
(1,157)	1:A:28:SER:CB	1:A:81:VAL:H	4	0.12
(4,5)	1:A:21:LEU:O	1:A:25:THR:N	17	0.11
(4,42)	1:A:86:SER:O	1:A:89:VAL:N	5	0.11
(4,41)	1:A:84:MET:O	1:A:88:TYR:N	14	0.11
(4,37)	1:A:80:ALA:O	1:A:84:MET:N	5	0.11
(4,35)	1:A:78:LEU:O	1:A:82:TYR:N	13	0.11
(4,32)	1:A:75:ALA:O	1:A:79:GLY:N	1	0.11
(4,3)	1:A:19:GLU:O	1:A:23:ARG:N	18	0.11
(4,26)	1:A:69:GLN:O	1:A:73:VAL:N	14	0.11
(4,24)	1:A:67:ALA:O	1:A:71:CYS:N	9	0.11
(4,23)	1:A:66:VAL:O	1:A:70:ALA:N	6	0.11
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	6	0.11
(4,22)	1:A:65:ARG:O	1:A:69:GLN:N	14	0.11
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	9	0.11
(4,19)	1:A:44:TYR:O	1:A:48:ARG:N	17	0.11
(4,17)	1:A:42:ALA:O	1:A:46:ILE:N	7	0.11
(4,16)	1:A:41:VAL:O	1:A:45:ARG:N	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,15)	1:A:40:VAL:O	1:A:44:TYR:N	20	0.11
(4,14)	1:A:39:LEU:O	1:A:43:ALA:N	3	0.11
(1,56)	1:A:14:GLU:H	1:A:28:SER:CB	5	0.11
(1,237)	1:A:38:CYS:CB	1:A:82:TYR:H	17	0.11

10 Dihedral-angle violation analysis

No dihedral-angle restraints found