Full wwPDB NMR Structure Validation Report (i)

Mar 25, 2026 – 08:23 PM UTC

PDB ID	:	2LOM / pdb_00002lom
BMRB ID	:	18217
Title	:	Backbone structure of human membrane protein HIGD1A
Authors	:	Blain, K.; 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:

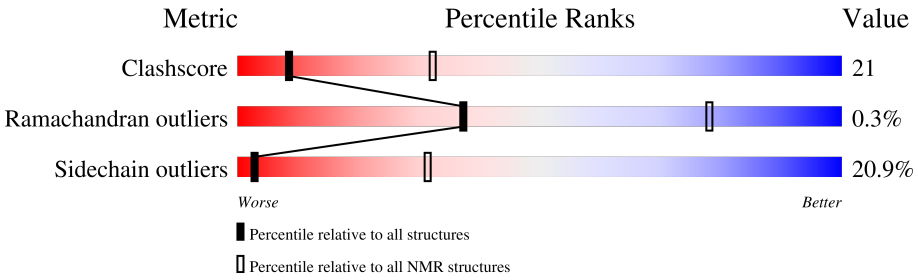
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 54%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	93	25% 13% •• 60%

2 Ensemble composition and analysis

This entry contains 20 models. Model 11 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:29-A:48, A:65-A:81 (37)	0.46	11

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 3 clusters and 2 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 1440 atoms, of which 729 are hydrogens and 0 are deuteriums.

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

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	93	1440	460	729	121	124	6	0

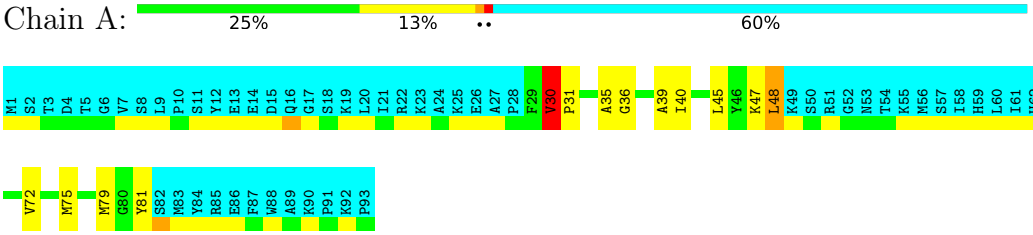
4 Residue-property plots

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 1A

Chain A:



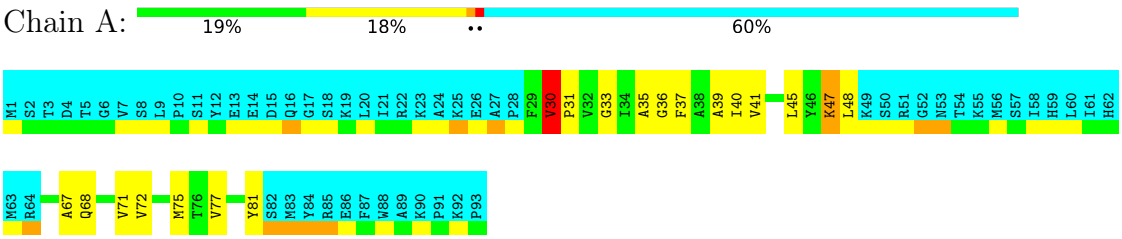
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: HIG1 domain family member 1A

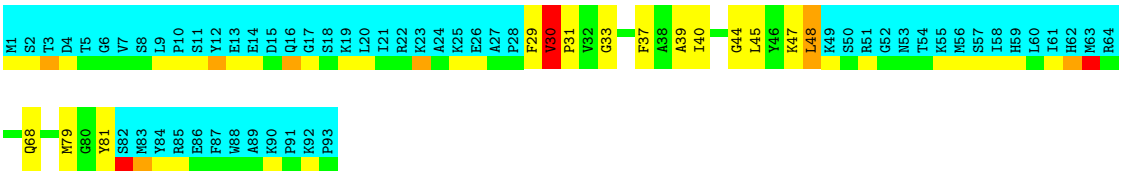
Chain A:



4.2.2 Score per residue for model 2

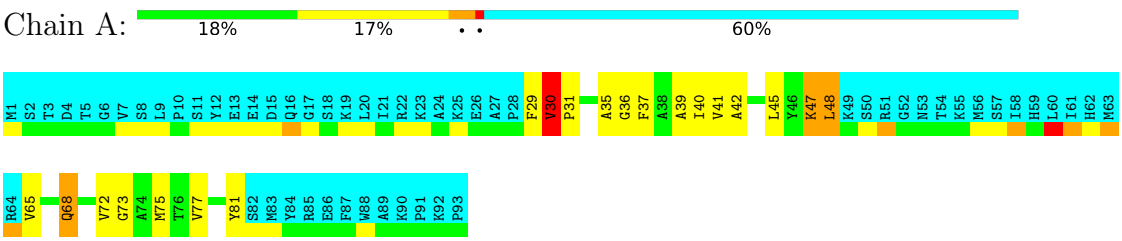
• Molecule 1: HIG1 domain family member 1A

Chain A:



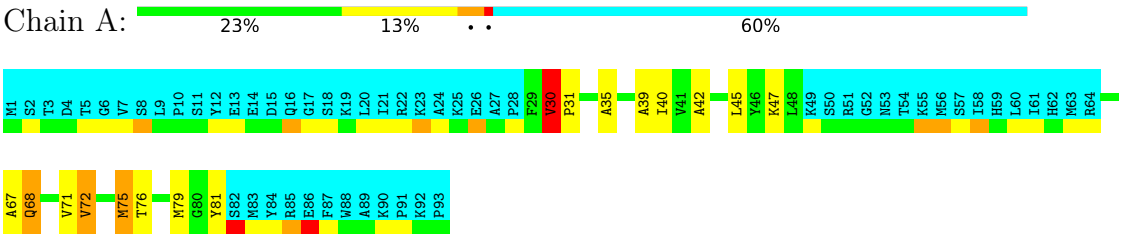
4.2.3 Score per residue for model 3

• Molecule 1: HIG1 domain family member 1A



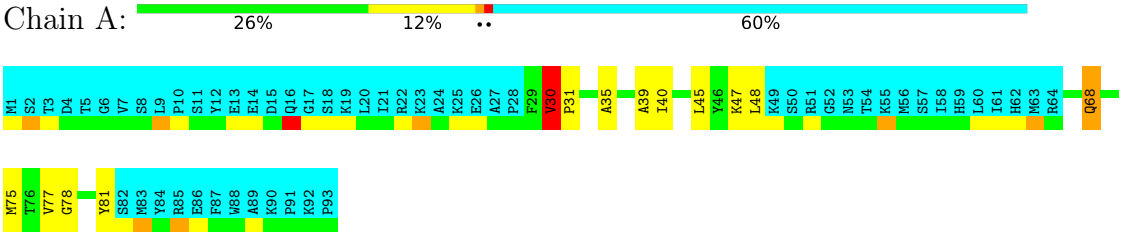
4.2.4 Score per residue for model 4

• Molecule 1: HIG1 domain family member 1A



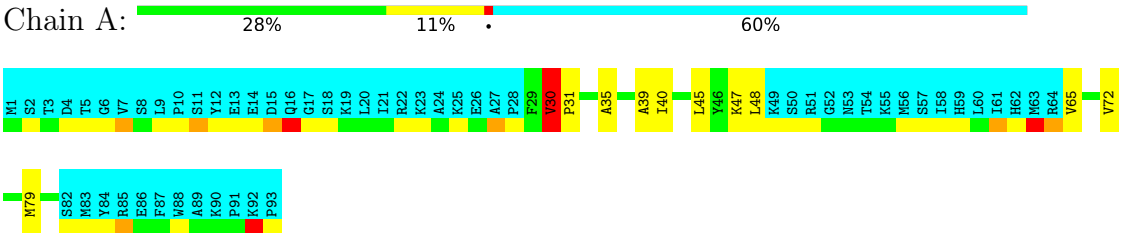
4.2.5 Score per residue for model 5

• Molecule 1: HIG1 domain family member 1A



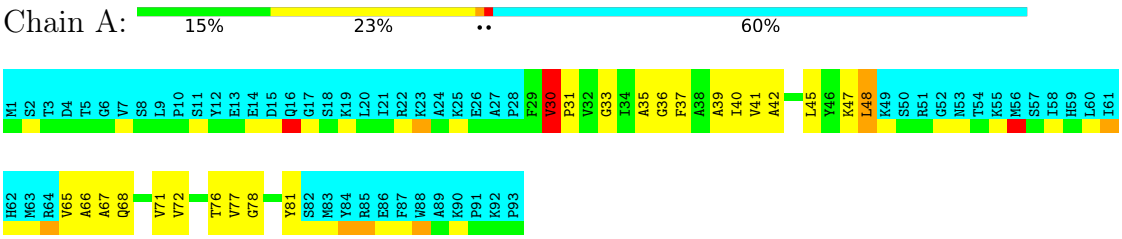
4.2.6 Score per residue for model 6

• Molecule 1: HIG1 domain family member 1A



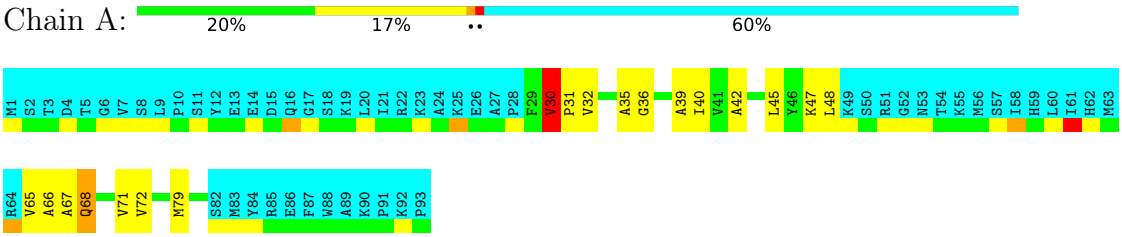
4.2.7 Score per residue for model 7

• Molecule 1: HIG1 domain family member 1A



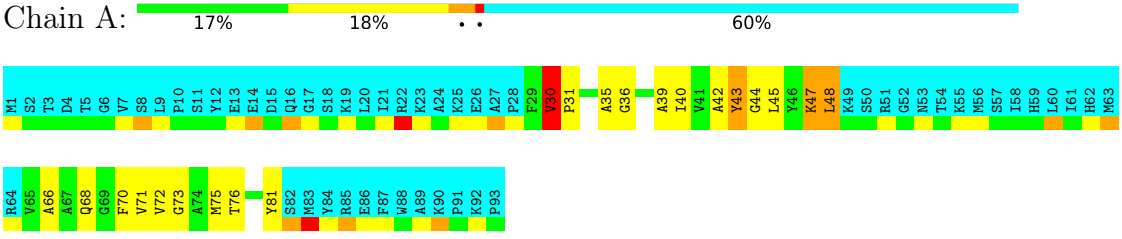
4.2.8 Score per residue for model 8

• Molecule 1: HIG1 domain family member 1A



4.2.9 Score per residue for model 9

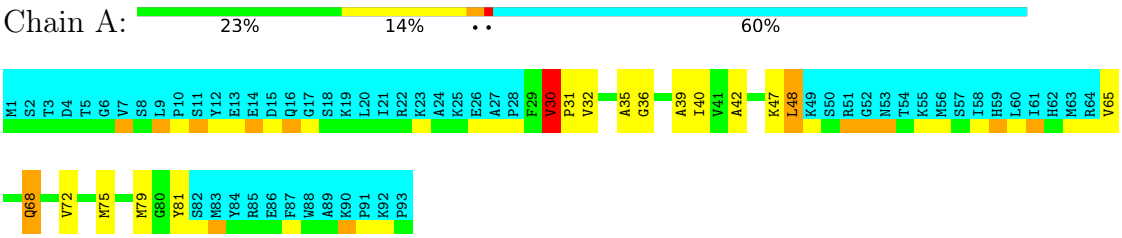
• Molecule 1: HIG1 domain family member 1A



4.2.10 Score per residue for model 10

• Molecule 1: HIG1 domain family member 1A

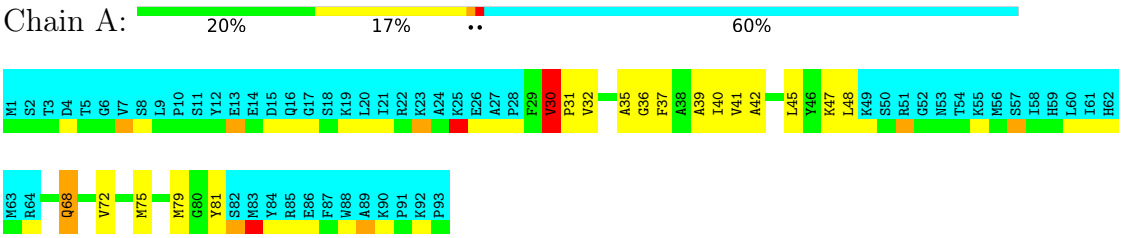
Chain A:



4.2.11 Score per residue for model 11 (medoid)

• Molecule 1: HIG1 domain family member 1A

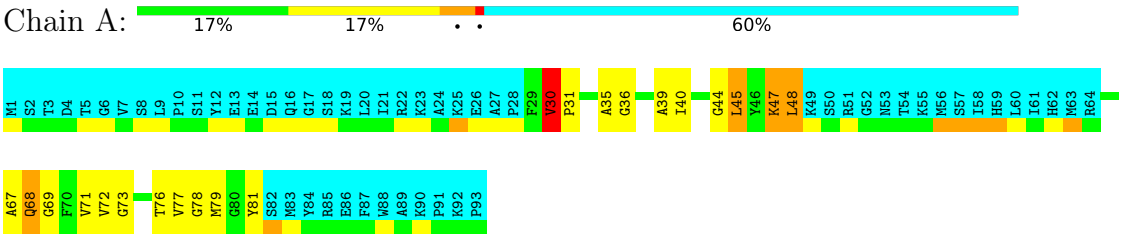
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: HIG1 domain family member 1A

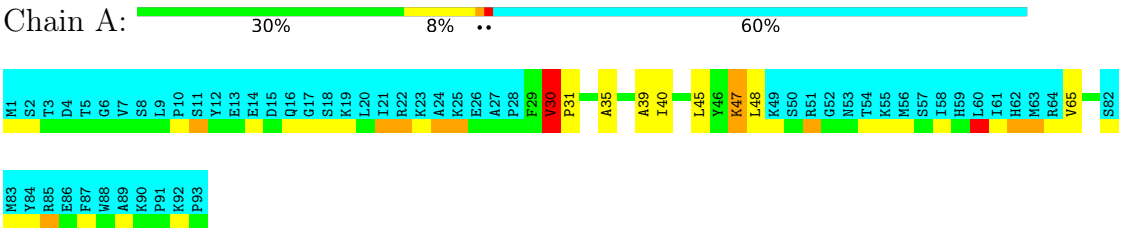
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: HIG1 domain family member 1A

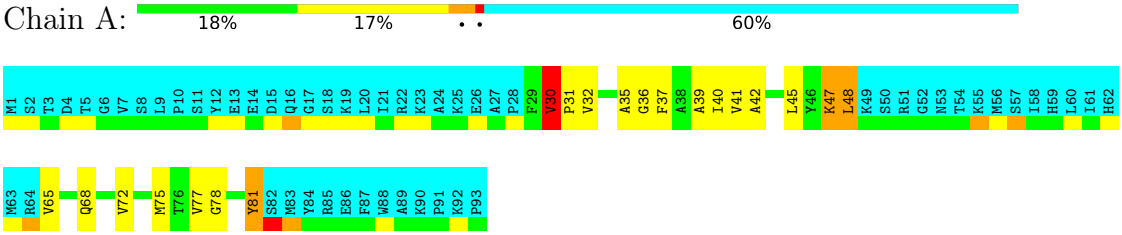
Chain A:



4.2.14 Score per residue for model 14

• Molecule 1: HIG1 domain family member 1A

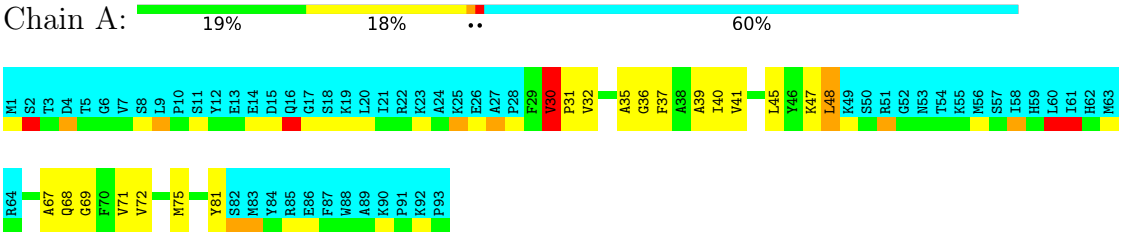
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: HIG1 domain family member 1A

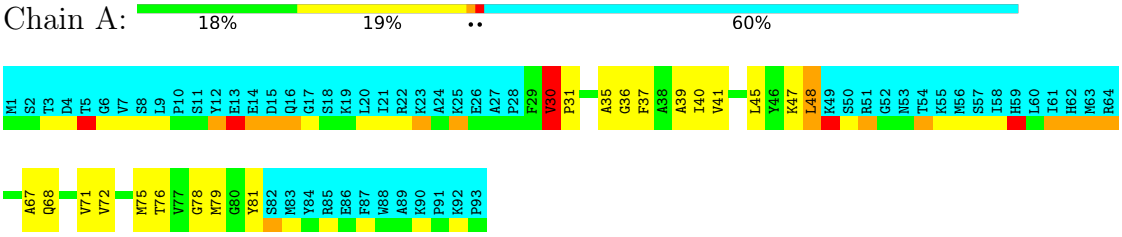
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: HIG1 domain family member 1A

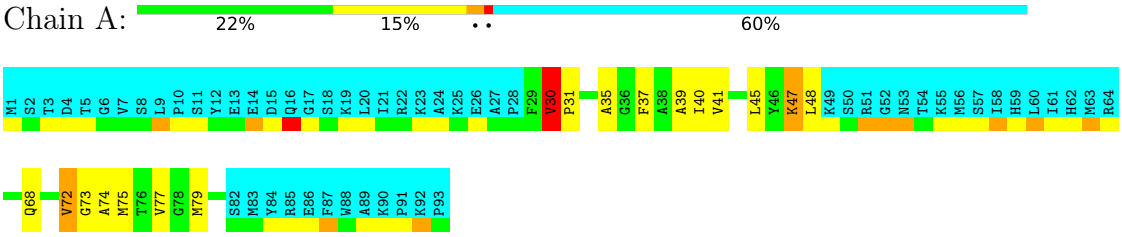
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: HIG1 domain family member 1A

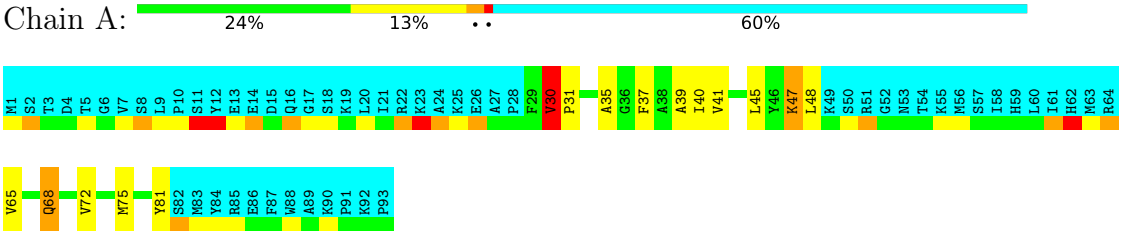
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: HIG1 domain family member 1A

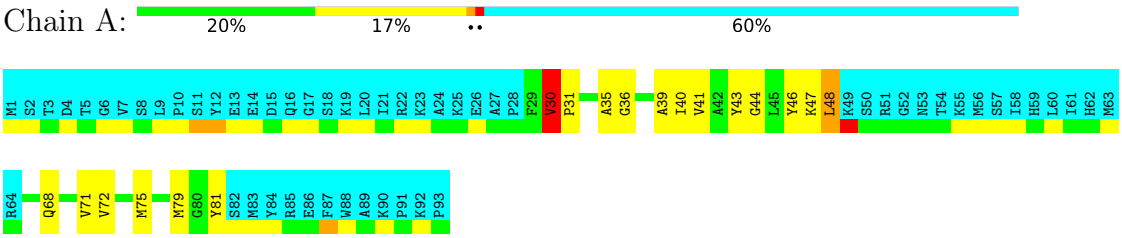
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: HIG1 domain family member 1A

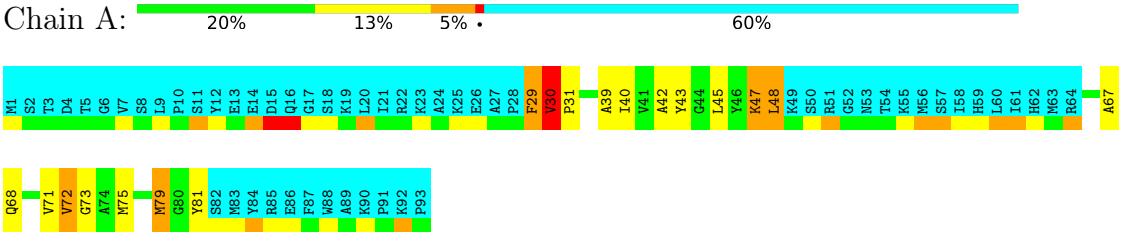
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: HIG1 domain family member 1A

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	1.04
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	512
Number of shifts mapped to atoms	512
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	54%

6 Model quality

6.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.70±0.00	0±0/268 (0.0± 0.0%)	1.13±0.01	1±0/365 (0.3± 0.0%)
All	All	0.70	0/5360 (0.0%)	1.13	20/7300 (0.3%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	30	VAL	O-C-N	6.46	124.56	120.42	8	20

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	261	270	270	11±4
All	All	5220	5400	5400	227

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 21.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:68:GLN:O	1:A:72:VAL:HG13	0.77	1.79	15	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:ALA:O	1:A:71:VAL:HG13	0.74	1.83	4	1
1:A:72:VAL:O	1:A:76:THR:HG23	0.71	1.85	7	2
1:A:67:ALA:O	1:A:71:VAL:HG23	0.69	1.87	15	5
1:A:31:PRO:O	1:A:35:ALA:HB3	0.67	1.90	5	17
1:A:68:GLN:O	1:A:72:VAL:HG23	0.65	1.90	14	10
1:A:37:PHE:O	1:A:41:VAL:HG23	0.58	1.98	16	8
1:A:29:PHE:C	1:A:29:PHE:CD1	0.58	2.81	20	1
1:A:29:PHE:CD1	1:A:29:PHE:O	0.56	2.58	20	2
1:A:40:ILE:CG2	1:A:68:GLN:CD	0.55	2.80	10	6
1:A:30:VAL:N	1:A:31:PRO:CD	0.54	2.69	14	20
1:A:68:GLN:O	1:A:72:VAL:CG2	0.51	2.59	16	9
1:A:31:PRO:O	1:A:35:ALA:CB	0.50	2.59	14	12
1:A:33:GLY:O	1:A:37:PHE:CB	0.50	2.60	2	3
1:A:36:GLY:O	1:A:40:ILE:CG1	0.50	2.60	10	8
1:A:40:ILE:CG2	1:A:68:GLN:OE1	0.50	2.60	9	2
1:A:40:ILE:HG22	1:A:68:GLN:NE2	0.48	2.23	1	1
1:A:74:ALA:O	1:A:77:VAL:CG2	0.47	2.62	17	1
1:A:39:ALA:O	1:A:40:ILE:C	0.47	2.57	19	20
1:A:40:ILE:HG22	1:A:68:GLN:HE21	0.47	1.70	11	1
1:A:36:GLY:O	1:A:40:ILE:HD12	0.46	2.10	9	4
1:A:39:ALA:O	1:A:42:ALA:HB3	0.46	2.10	4	1
1:A:74:ALA:O	1:A:77:VAL:HG22	0.46	2.11	17	1
1:A:29:PHE:CD1	1:A:29:PHE:C	0.46	2.93	3	2
1:A:39:ALA:O	1:A:42:ALA:N	0.45	2.49	14	7
1:A:47:LYS:O	1:A:48:LEU:C	0.45	2.60	3	18
1:A:35:ALA:O	1:A:36:GLY:C	0.45	2.60	12	8
1:A:42:ALA:O	1:A:43:TYR:C	0.45	2.59	9	2
1:A:30:VAL:N	1:A:31:PRO:HD2	0.44	2.28	14	16
1:A:45:LEU:HD23	1:A:45:LEU:C	0.44	2.37	5	1
1:A:71:VAL:O	1:A:72:VAL:C	0.44	2.59	19	3
1:A:65:VAL:HG13	1:A:66:ALA:N	0.44	2.27	8	1
1:A:77:VAL:O	1:A:81:TYR:CD2	0.44	2.71	1	1
1:A:75:MET:O	1:A:76:THR:C	0.44	2.60	4	2
1:A:43:TYR:O	1:A:46:TYR:N	0.44	2.51	19	1
1:A:69:GLY:O	1:A:72:VAL:HG22	0.43	2.13	15	2
1:A:44:GLY:O	1:A:45:LEU:C	0.43	2.61	9	3
1:A:43:TYR:O	1:A:44:GLY:C	0.43	2.59	19	1
1:A:73:GLY:O	1:A:77:VAL:HG23	0.43	2.14	3	1
1:A:81:TYR:CD1	1:A:81:TYR:C	0.42	2.96	20	1
1:A:77:VAL:HG23	1:A:78:GLY:N	0.42	2.29	5	4
1:A:67:ALA:O	1:A:71:VAL:CG1	0.42	2.64	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:ALA:C	1:A:41:VAL:N	0.42	2.78	19	1
1:A:75:MET:O	1:A:78:GLY:N	0.42	2.53	16	1
1:A:40:ILE:HG21	1:A:68:GLN:CD	0.41	2.39	3	2
1:A:72:VAL:HG12	1:A:73:GLY:N	0.41	2.31	17	2
1:A:73:GLY:O	1:A:76:THR:OG1	0.41	2.39	12	2
1:A:67:ALA:O	1:A:71:VAL:HG22	0.40	2.16	20	1
1:A:40:ILE:O	1:A:41:VAL:C	0.40	2.65	1	1
1:A:68:GLN:NE2	1:A:72:VAL:CG1	0.40	2.84	12	1
1:A:29:PHE:O	1:A:29:PHE:CG	0.40	2.75	20	1
1:A:70:PHE:CD1	1:A:70:PHE:C	0.40	3.00	9	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	37/93 (40%)	33±1 (89±4%)	4±2 (11±4%)	0±0 (0±1%)	37	78
All	All	740/1860 (40%)	659 (89%)	79 (11%)	2 (0%)	37	78

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	48	LEU	2

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	23/73 (32%)	18±2 (79±7%)	5±2 (21±7%)	3	31
All	All	460/1460 (32%)	364 (79%)	96 (21%)	3	31

All 11 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	30	VAL	20
1	A	45	LEU	14
1	A	75	MET	13
1	A	47	LYS	11
1	A	79	MET	11
1	A	68	GLN	10
1	A	48	LEU	10
1	A	72	VAL	4
1	A	43	TYR	1
1	A	81	TYR	1
1	A	29	PHE	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no oligosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 54% for the well-defined parts and 41% 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	512
Number of shifts mapped to atoms	512
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
$^{13}C_{\alpha}$	69	2.56 ± 0.38	Should be applied
$^{13}C_{\beta}$	59	3.23 ± 0.17	Should be applied
$^{13}C'$	61	2.41 ± 0.16	Should be applied
^{15}N	71	-0.06 ± 0.30	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 54%, i.e. 257 atoms were assigned a chemical shift out of a possible 473. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	154/190 (81%)	59/80 (74%)	61/74 (82%)	34/36 (94%)
Sidechain	103/226 (46%)	66/156 (42%)	37/68 (54%)	0/2 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	0/57 (0%)	0/27 (0%)	0/30 (0%)	0/0 (—%)
Overall	257/473 (54%)	125/263 (48%)	98/172 (57%)	34/38 (89%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 41%, i.e. 512 atoms were assigned a chemical shift out of a possible 1251. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	325/465 (70%)	124/191 (65%)	130/186 (70%)	71/88 (81%)
Sidechain	185/675 (27%)	111/446 (25%)	74/206 (36%)	0/23 (0%)
Aromatic	2/111 (2%)	2/54 (4%)	0/54 (0%)	0/3 (0%)
Overall	512/1251 (41%)	237/691 (34%)	204/446 (46%)	71/114 (62%)

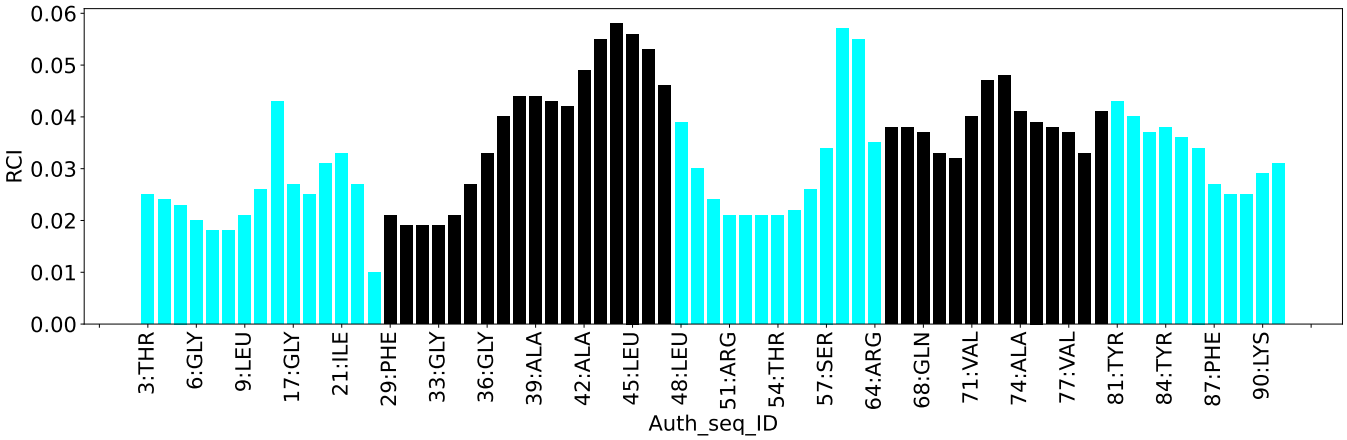
7.1.4 Statistically unusual chemical shifts (i)

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	498
Intra-residue (|i-j|=0)	3
Sequential (|i-j|=1)	7
Medium range (|i-j|>1 and |i-j|<5)	59
Long range (|i-j|≥5)	312
Inter-chain	0
Hydrogen bond restraints	117
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	5.4
Number of long range restraints per residue[1]	3.4

[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)	8.7	0.2
0.2-0.5 (Medium)	18.0	0.5
>0.5 (Large)	168.8	23.62

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)

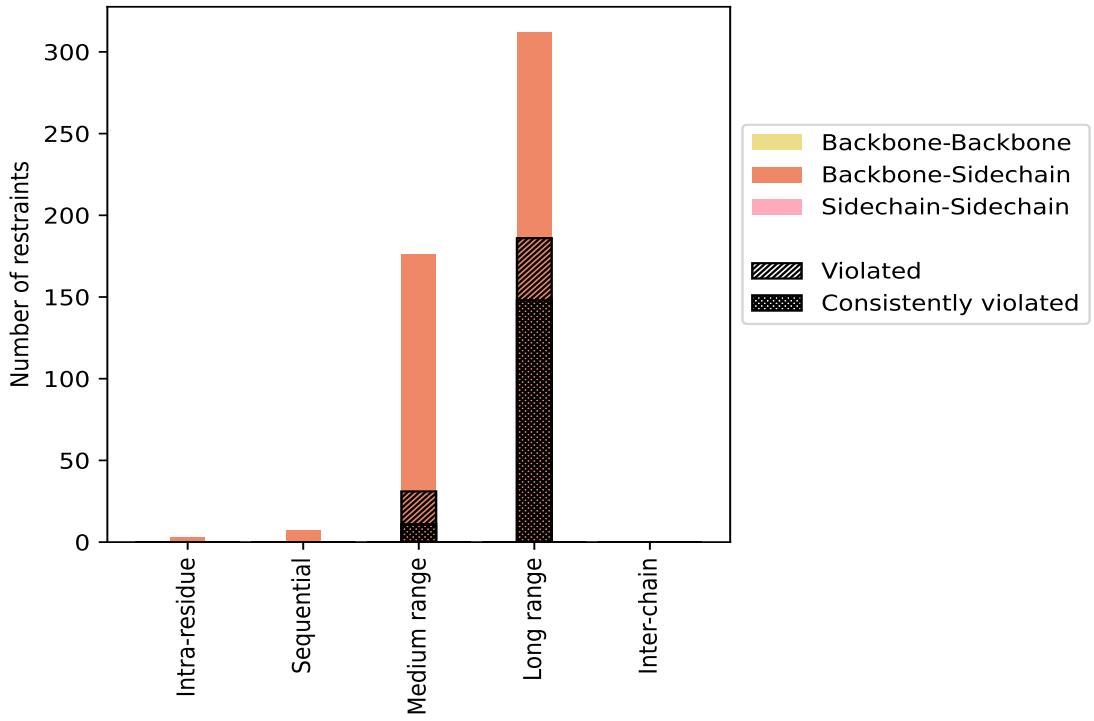
9.1 Summary of distance violations (i)

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)	3	0.6	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	3	0.6	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)	7	1.4	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	7	1.4	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	59	11.8	3	5.1	0.6	2	3.4	0.4
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	59	11.8	3	5.1	0.6	2	3.4	0.4
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range (|i-j|≥5)	312	62.7	186	59.6	37.3	148	47.4	29.7
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	312	62.7	186	59.6	37.3	148	47.4	29.7
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	117	23.5	28	23.9	5.6	9	7.7	1.8
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	498	100.0	217	43.6	43.6	159	31.9	31.9
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	498	100.0	217	43.6	43.6	159	31.9	31.9
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	18	177	0	195	4.43	20.26	3.76	4.09
2	0	0	17	179	0	196	3.96	17.73	3.22	3.62
3	0	0	26	173	0	199	4.4	20.64	3.73	4.05
4	0	0	20	175	0	195	4.57	17.92	3.79	4.02
5	0	0	20	174	0	194	4.49	19.65	3.71	3.96
6	0	0	20	176	0	196	4.2	19.98	3.61	3.7
7	0	0	18	178	0	196	4.28	15.33	3.31	3.76
8	0	0	21	174	0	195	4.55	17.92	3.81	4.0
9	0	0	23	177	0	200	4.17	21.88	3.77	3.48
10	0	0	25	176	0	201	4.26	19.39	3.64	3.93

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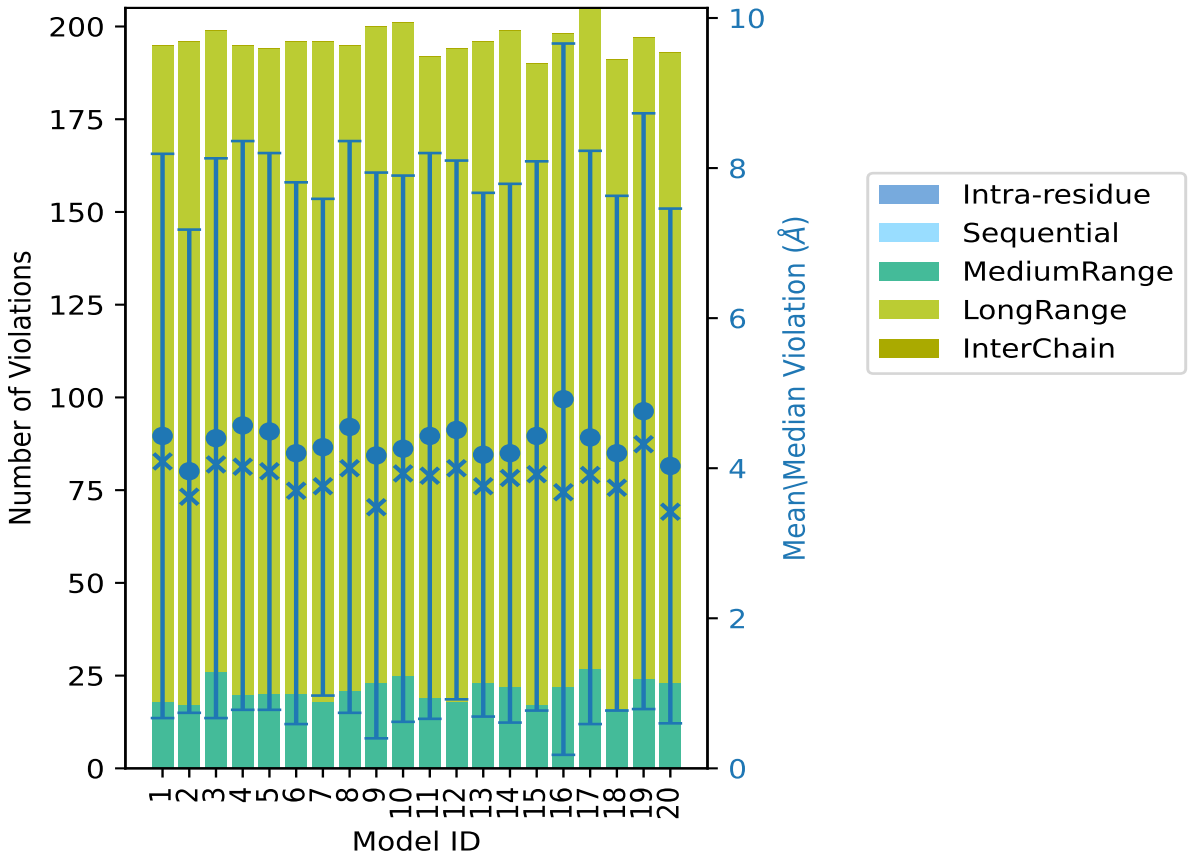
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	0	0	19	173	0	192	4.43	21.75	3.77	3.9
12	0	0	18	176	0	194	4.51	18.01	3.59	4.0
13	0	0	23	173	0	196	4.18	19.13	3.49	3.76
14	0	0	22	177	0	199	4.2	17.67	3.59	3.87
15	0	0	17	173	0	190	4.43	19.69	3.66	3.92
16	0	0	22	176	0	198	4.92	23.62	4.74	3.68
17	0	0	27	178	0	205	4.41	19.6	3.82	3.91
18	0	0	16	175	0	191	4.2	18.24	3.43	3.74
19	0	0	24	173	0	197	4.76	20.47	3.97	4.32
20	0	0	23	170	0	193	4.03	19.16	3.43	3.42

[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

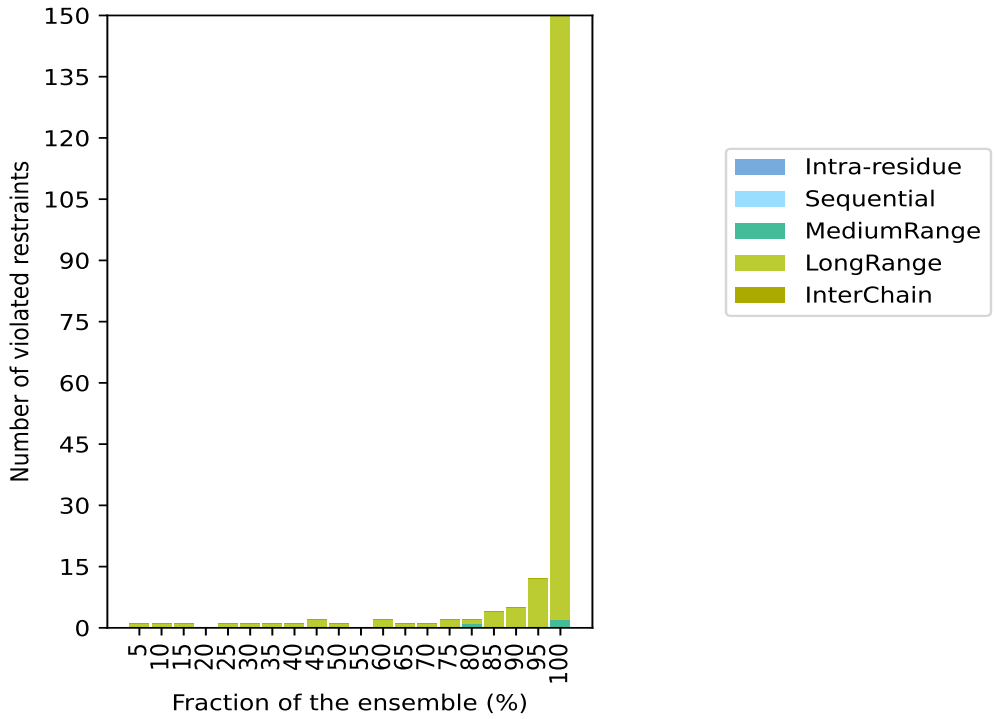
9.3 Distance violation statistics for the ensemble (i)

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, 192(IR:3, SQ:7, MR:56, LR:126, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
0	0	0	1	0	1	1	5.0
0	0	0	1	0	1	2	10.0
0	0	0	1	0	1	3	15.0
0	0	0	0	0	0	4	20.0
0	0	0	1	0	1	5	25.0
0	0	0	1	0	1	6	30.0
0	0	0	1	0	1	7	35.0
0	0	0	1	0	1	8	40.0
0	0	0	2	0	2	9	45.0
0	0	0	1	0	1	10	50.0
0	0	0	0	0	0	11	55.0
0	0	0	2	0	2	12	60.0
0	0	0	1	0	1	13	65.0
0	0	0	1	0	1	14	70.0
0	0	0	2	0	2	15	75.0
0	0	1	1	0	2	16	80.0
0	0	0	4	0	4	17	85.0
0	0	0	5	0	5	18	90.0
0	0	0	12	0	12	19	95.0
0	0	2	148	0	150	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

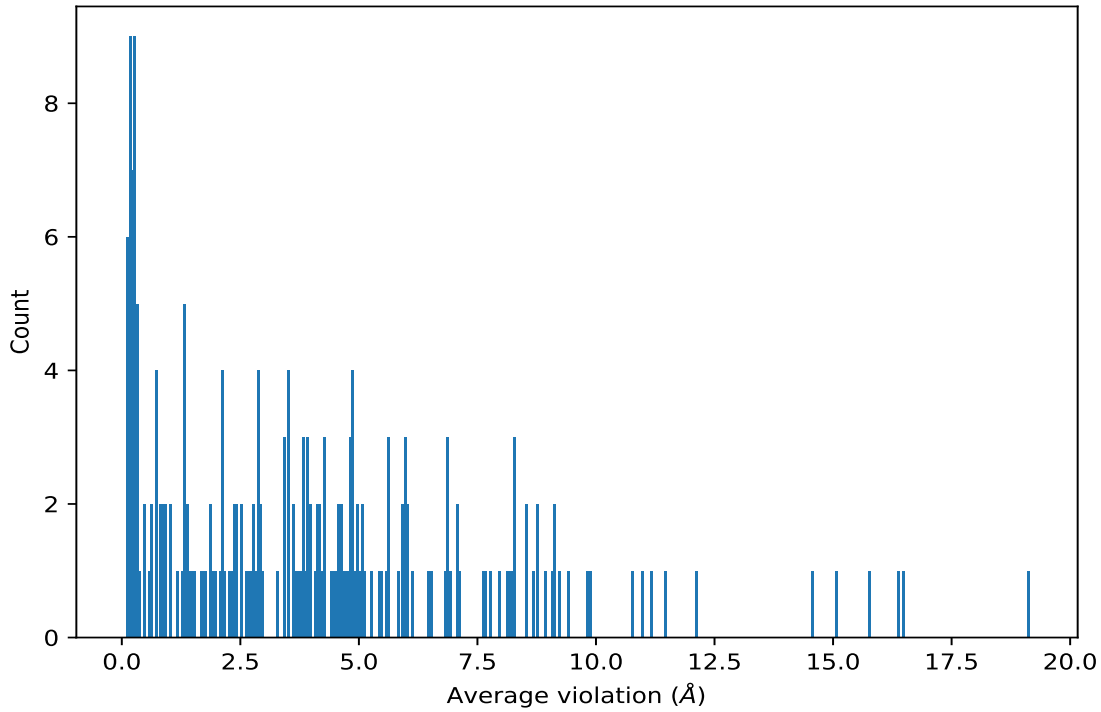
9.3.1 Bar graph : Distance violation statistics for the ensemble



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

The following table provides the mean and the standard deviation of theviolation 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)
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	20	19.14	2.52	19.5
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	20	16.49	1.72	16.85
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	20	16.36	1.41	16.87
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	20	15.79	1.36	15.88
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	20	15.08	1.62	14.92
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	20	14.58	2.82	15.24
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	20	12.13	2.4	12.1
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	20	11.49	2.32	11.01
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	20	11.18	1.63	11.54
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	20	10.96	1.85	11.57
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	20	10.78	2.36	11.42
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	20	9.89	2.71	9.34
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	20	9.8	1.43	9.68
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	20	9.42	0.27	9.39
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	20	9.22	0.41	9.39
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	20	9.11	0.74	9.04

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	20	9.1	1.77	9.05
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	20	9.05	0.95	8.99
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	20	8.9	0.49	9.06
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	20	8.77	2.13	8.72
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	20	8.76	3.04	9.38
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	20	8.65	1.29	8.61
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	20	8.52	1.27	8.51
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	20	8.5	2.32	8.9
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	20	8.28	1.06	7.97
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	20	8.26	2.18	7.98
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	20	8.25	2.16	8.12
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	20	8.24	1.07	8.12
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	20	8.17	0.43	8.07
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	20	8.11	0.2	8.15
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	20	7.95	0.9	8.01
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	20	7.77	0.71	7.9
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	20	7.67	0.31	7.75
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	20	7.6	2.43	7.08
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	20	7.13	2.64	6.7
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	20	7.07	2.77	6.54
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	20	7.05	1.05	7.02
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	20	6.94	3.2	6.84
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	20	6.89	2.8	6.82
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	20	6.88	2.33	7.24
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	20	6.86	0.39	6.98
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	20	6.81	0.39	6.78
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	20	6.5	1.29	6.76
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	20	6.49	1.32	6.79
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	20	6.1	0.02	6.09
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	20	6.01	0.01	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	20	6.01	0.0	6.0
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	20	5.99	0.77	5.84
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	20	5.99	0.61	5.98
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	20	5.95	0.25	6.01
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	20	5.92	0.18	6.0
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	20	5.91	0.19	6.0
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	20	5.84	0.29	6.0
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	20	5.61	0.33	5.68
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	20	5.61	0.22	5.58
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	20	5.6	0.17	5.6
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	20	5.47	1.07	5.34
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	20	5.44	0.26	5.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	20	5.29	0.34	5.34
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	20	5.14	0.94	5.51
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	20	5.08	0.84	5.28
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	20	5.01	0.24	5.11
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	20	4.97	0.78	5.0
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	20	4.96	0.87	5.22
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	20	4.92	1.07	5.24
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	20	4.88	0.25	4.81
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	20	4.87	0.68	4.84
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	20	4.86	0.86	5.21
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	20	4.85	0.46	4.74
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	20	4.84	0.63	4.73
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	20	4.83	0.43	4.94
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	20	4.82	0.69	4.7
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	20	4.77	0.85	4.63
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	20	4.66	0.21	4.62
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	20	4.64	1.06	5.08
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	20	4.61	1.11	4.68
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	20	4.58	0.34	4.47
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	20	4.56	1.02	4.69
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	20	4.5	1.02	4.78
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	20	4.45	1.42	4.59
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	20	4.43	1.41	4.86
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	20	4.29	1.17	4.61
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	20	4.28	1.63	4.16
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	20	4.27	0.49	4.15
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	20	4.21	0.32	4.31
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	20	4.17	1.77	4.24
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	20	4.16	1.4	4.61
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	20	4.12	1.51	4.73
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	20	4.11	0.23	4.08
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	20	4.09	0.84	4.09
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	20	3.97	1.33	4.03
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	20	3.97	0.14	4.02
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	20	3.93	1.61	4.5
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	20	3.91	0.94	4.12
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	20	3.9	1.61	3.81
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	20	3.88	0.9	3.92
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	20	3.84	0.98	3.92
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	20	3.84	1.21	4.11
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	20	3.81	1.61	3.9
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	20	3.78	1.41	4.08

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	20	3.74	0.63	3.85
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	20	3.68	0.59	3.87
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	20	3.61	0.42	3.76
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	20	3.53	0.42	3.68
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	20	3.52	0.27	3.59
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	20	3.52	1.29	3.32
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	20	3.5	1.46	3.86
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	20	3.42	0.16	3.46
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	20	3.41	1.37	3.26
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	20	2.96	1.78	1.98
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	20	2.92	1.23	2.88
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	20	2.92	1.23	2.72
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	20	2.87	0.79	2.96
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	20	2.87	0.44	2.96
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	20	2.8	1.51	2.86
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	20	2.75	1.26	2.68
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	20	2.75	0.36	2.8
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	20	2.73	1.66	3.2
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	20	2.65	0.17	2.64
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	20	2.6	0.21	2.6
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	20	2.53	0.67	2.83
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	20	2.53	0.62	2.46
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	20	2.43	0.14	2.46
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	20	2.35	1.08	2.34
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	20	2.31	0.46	2.36
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	20	2.25	0.71	2.22
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	20	2.18	1.53	1.58
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	20	2.13	0.89	1.8
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	20	2.1	0.46	2.07
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	20	2.08	0.23	2.07
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	20	1.99	0.82	2.12
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	20	1.93	0.53	1.7
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	20	1.86	1.02	1.96
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	20	1.86	0.23	1.86
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	20	1.73	0.13	1.71
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	20	1.68	0.76	1.52
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	20	1.5	0.26	1.52
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	20	1.46	0.39	1.5
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	20	1.38	0.11	1.38
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	20	1.34	0.51	1.21
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	20	1.34	0.11	1.32
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	20	1.31	0.29	1.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	20	1.3	0.16	1.27
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	20	1.27	0.22	1.22
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	20	1.02	0.2	1.0
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	20	0.93	0.2	0.98
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	20	0.89	0.18	0.87
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	20	0.7	0.25	0.68
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	20	0.7	0.15	0.68
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	20	0.6	0.14	0.59
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	20	0.33	0.01	0.32
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	20	0.3	0.01	0.3
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	20	0.3	0.02	0.3
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	20	0.29	0.01	0.29
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	20	0.28	0.02	0.28
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	20	0.27	0.03	0.29
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	20	0.26	0.03	0.26
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	20	0.25	0.02	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	20	0.24	0.01	0.24
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	19	5.08	3.23	4.76
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	19	4.7	0.93	4.69
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	19	3.62	1.45	3.61
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	19	3.42	1.62	3.0
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	19	3.26	1.53	3.34
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	19	2.89	1.79	2.33
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	19	2.43	1.45	2.57
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	19	2.11	1.7	1.33
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	19	1.76	0.94	2.11
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	19	1.42	0.79	1.55
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	19	1.32	0.98	1.07
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	19	1.15	0.89	0.59
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	19	0.23	0.05	0.23
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	19	0.21	0.06	0.23
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	18	5.59	2.87	5.24
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	18	2.86	0.99	2.92
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	18	1.39	0.75	1.34
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	18	0.82	0.48	0.82
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	18	0.74	0.35	0.73
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	17	2.35	1.45	2.21
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	17	2.13	1.18	1.86
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	17	1.04	0.64	0.99
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	17	0.83	0.55	0.77
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	16	0.87	0.53	0.89
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	16	0.63	0.29	0.62

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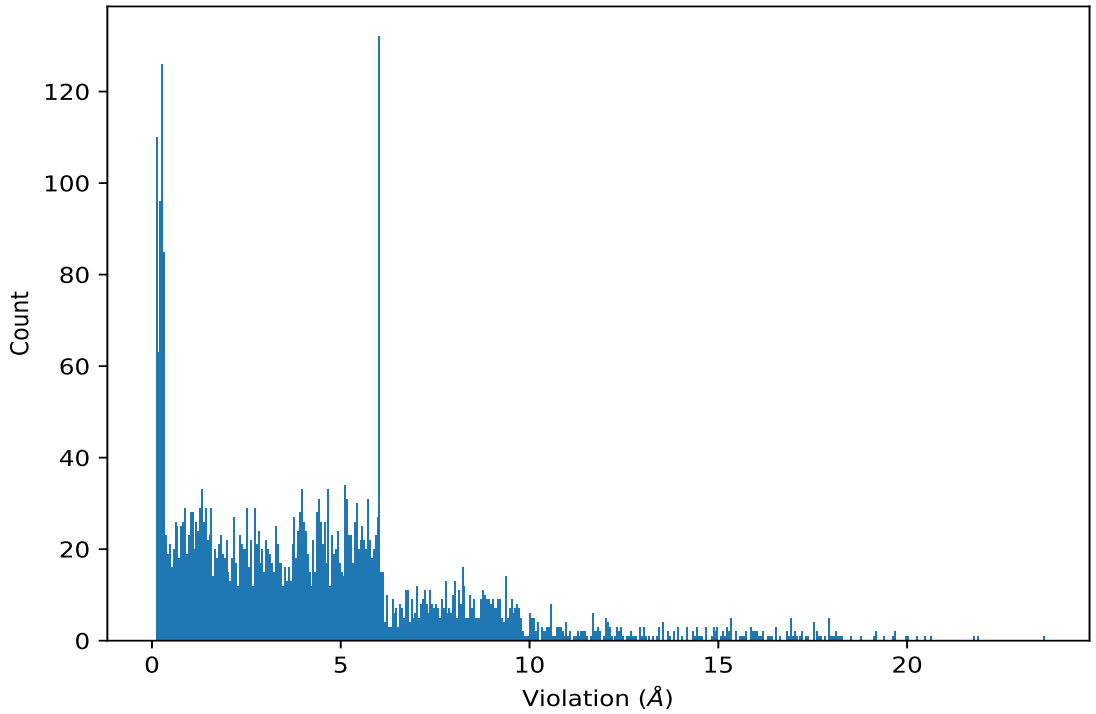
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	15	0.73	0.37	0.78
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	15	0.58	0.3	0.54
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	14	0.17	0.05	0.17
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	14	0.12	0.01	0.12
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	13	0.48	0.21	0.41
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	13	0.16	0.03	0.16
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	12	0.94	0.38	0.99
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	12	0.45	0.33	0.32
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	12	0.25	0.06	0.28
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	11	0.12	0.01	0.13
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	11	0.12	0.01	0.12
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	10	0.36	0.2	0.36
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	10	0.23	0.04	0.24
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	9	0.27	0.12	0.27
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	9	0.26	0.11	0.24
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	9	0.21	0.07	0.19
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	9	0.19	0.05	0.2
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	9	0.17	0.06	0.13
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	9	0.15	0.03	0.15
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	9	0.11	0.01	0.11
(2,113)	1:75:A:MET:O	1:79:A:MET:N	8	0.26	0.01	0.26
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	8	0.12	0.02	0.12
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	7	0.31	0.14	0.38
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	7	0.17	0.05	0.16
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	6	0.31	0.18	0.25
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	6	0.17	0.04	0.17
(1,226)	1:24:A:ALA:CB	1:73:A:GLY:H	5	0.21	0.03	0.23
(2,117)	1:79:A:MET:O	1:82:A:SER:N	4	0.15	0.02	0.15
(1,267)	1:38:A:ALA:CB	1:68:A:GLN:H	3	0.18	0.05	0.16
(2,75)	1:78:A:GLY:O	1:82:A:SER:H	3	0.12	0.01	0.11
(1,149)	1:71:A:VAL:CB	1:88:A:TRP:H	2	0.2	0.0	0.2

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	16	23.62
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	9	21.88
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	11	21.75
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	3	20.64
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	19	20.47
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	1	20.26
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	3	20.0
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	6	19.98
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	15	19.69
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	5	19.65
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	17	19.6
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	10	19.39
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	19	19.19
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	20	19.16
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	13	19.13
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	17	18.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	16	18.53
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	16	18.29
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	18	18.24
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	11	18.17
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	6	18.14
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	20	18.13
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	11	18.09
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	12	18.01
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	16	17.96
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	16	17.94
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	15	17.93
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	8	17.92
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	11	17.92
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	4	17.92
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	9	17.82
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	2	17.73
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	14	17.67
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	1	17.64
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	10	17.63
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	4	17.54
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	19	17.52
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	16	17.51
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	9	17.5
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	10	17.36
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	19	17.33
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	6	17.23
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	3	17.21
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	10	17.18
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	18	17.06
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	12	17.01
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	4	17.0
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	17	16.99
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	1	16.94
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	9	16.94
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	20	16.93
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	5	16.91
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	9	16.9
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	16	16.87
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	15	16.8
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	1	16.8
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	14	16.61
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	15	16.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	6	16.52
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	6	16.5
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	12	16.43
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	18	16.37
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	14	16.34
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	16	16.19
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	5	16.19
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	16	16.13
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	13	16.05
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	19	16.04
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	16	16.04
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	15	15.99
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	9	15.99
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	13	15.92
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	3	15.91
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	8	15.88
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	14	15.85
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	8	15.85
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	1	15.72
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	16	15.72
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	4	15.67
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	12	15.61
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	10	15.57
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	5	15.46
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	16	15.46
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	17	15.33
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	8	15.33
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	7	15.33
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	4	15.31
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	10	15.3
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	16	15.28
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	19	15.26
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	16	15.23
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	16	15.23
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	13	15.21
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	6	15.17
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	11	15.12
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	8	15.1
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	15	15.09
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	20	14.97
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	8	14.97
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	7	14.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	5	14.93
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	16	14.91
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	20	14.88
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	2	14.86
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	3	14.85
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	13	14.8
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	16	14.69
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	17	14.68
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	5	14.66
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	2	14.58
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	7	14.5
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	5	14.48
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	8	14.42
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	11	14.42
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	3	14.4
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	13	14.35
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	4	14.34
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	18	14.33
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	5	14.18
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	1	14.15
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	17	14.15
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	20	14.04
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	7	13.91
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	2	13.9
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	19	13.9
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	3	13.81
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	18	13.8
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	16	13.71
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	6	13.68
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	14	13.66
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	17	13.51
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	11	13.5
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	2	13.5
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	14	13.5
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	1	13.44
(1,298)	1:50:A:SER:CB	1:89:A:ALA:H	7	13.43
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	17	13.41
(1,297)	1:50:A:SER:CB	1:87:A:PHE:H	17	13.39
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	16	13.28
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	8	13.16
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	1	13.05
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	2	13.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	9	13.03
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	13	13.0
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	19	12.98
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	8	12.93
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	5	12.93
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	12	12.93
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	11	12.82
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	12	12.77
(1,296)	1:50:A:SER:CB	1:86:A:GLU:H	18	12.74
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	6	12.68
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	16	12.66
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	4	12.61
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	10	12.56
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	4	12.45
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	14	12.44
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	12	12.43
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	3	12.42
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	9	12.39
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	20	12.39
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	19	12.34
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	17	12.34
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	16	12.31
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	14	12.29
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	18	12.18
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	1	12.1
(1,299)	1:50:A:SER:CB	1:90:A:LYS:H	7	12.1
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	18	12.1
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	15	12.09
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	4	12.09
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	17	12.06
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	19	12.05
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	16	12.04
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	8	12.03
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	8	12.03
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	9	12.01
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	4	12.0
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	1	11.95
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	4	11.89
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	3	11.85
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	9	11.84
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	12	11.83
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	20	11.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	12	11.76
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	1	11.75
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	5	11.7
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	15	11.7
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	19	11.68
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	16	11.68
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	18	11.67
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	3	11.66
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	8	11.66
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	5	11.65
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	14	11.62
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	1	11.5
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	7	11.48
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	4	11.46
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	13	11.42
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	5	11.4
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	10	11.39
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	17	11.37
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	15	11.31
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	15	11.25
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	7	11.25
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	16	11.2
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	17	11.18
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	13	11.08
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	19	11.06
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	17	11.02
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	12	10.98
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	14	10.96
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	14	10.96
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	5	10.95
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	19	10.91
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	4	10.87
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	6	10.86
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	8	10.83
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	19	10.82
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	12	10.82
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	12	10.79
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	19	10.77
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	11	10.76
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	13	10.74
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	2	10.73
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	4	10.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	12	10.66
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	11	10.64
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	19	10.59
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	15	10.59
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	9	10.58
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	13	10.57
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	16	10.57
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	17	10.57
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	18	10.56
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	10	10.56
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	12	10.53
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	14	10.52
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	7	10.5
(1,300)	1:50:A:SER:CB	1:92:A:LYS:H	7	10.47
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	19	10.46
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	4	10.45
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	19	10.43
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	18	10.42
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	19	10.38
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	11	10.38
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	17	10.34
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	16	10.33
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	12	10.32
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	11	10.24
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	12	10.22
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	17	10.21
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	19	10.21
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	1	10.17
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	2	10.16
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	5	10.14
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	1	10.14
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	4	10.12
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	19	10.11
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	7	10.11
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	19	10.09
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	19	10.08
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	15	10.07
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	12	10.06
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	7	10.05
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	8	10.04
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	12	10.03
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	19	10.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	10	10.02
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	19	10.01
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	8	10.0
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	4	9.97
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	8	9.92
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	1	9.85
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	8	9.84
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	8	9.84
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	3	9.78
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	10	9.77
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	17	9.77
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	14	9.76
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	3	9.75
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	13	9.73
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	3	9.71
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	7	9.71
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	8	9.71
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	11	9.71
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	17	9.7
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	14	9.7
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	3	9.69
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	11	9.68
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	5	9.67
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	8	9.66
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	9	9.66
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	3	9.66
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	12	9.66
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	4	9.65
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	10	9.64
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	8	9.64
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	15	9.63
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	1	9.63
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	2	9.61
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	10	9.61
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	6	9.6
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	4	9.58
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	16	9.57
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	12	9.56
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	1	9.56
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	5	9.56
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	17	9.55
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	14	9.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	16	9.53
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	7	9.53
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	18	9.53
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	20	9.53
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	16	9.52
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	15	9.52
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	3	9.51
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	2	9.5
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	8	9.48
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	15	9.48
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	7	9.48
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	6	9.47
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	4	9.46
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	7	9.46
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	11	9.46
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	2	9.44
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	10	9.44
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	10	9.42
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	8	9.41
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	3	9.4
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	1	9.39
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	13	9.38
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	9	9.37
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	17	9.37
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	8	9.36
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	16	9.36
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	17	9.36
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	18	9.36
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	3	9.36
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	10	9.36
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	9	9.36
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	2	9.35
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	11	9.35
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	4	9.35
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	3	9.33
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	1	9.31
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	19	9.3
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	15	9.3
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	10	9.29
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	4	9.28
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	19	9.27
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	8	9.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	2	9.25
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	4	9.23
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	5	9.23
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	14	9.23
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	13	9.22
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	18	9.22
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	12	9.22
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	15	9.21
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	3	9.2
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	11	9.2
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	11	9.19
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	7	9.19
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	17	9.19
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	9	9.19
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	7	9.19
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	1	9.18
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	8	9.17
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	20	9.17
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	11	9.15
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	20	9.14
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	14	9.14
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	9	9.13
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	5	9.13
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	4	9.12
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	16	9.12
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	19	9.11
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	7	9.09
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	12	9.08
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	7	9.07
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	11	9.06
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	18	9.06
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	18	9.05
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	9	9.05
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	2	9.04
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	11	9.04
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	11	9.04
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	14	9.02
(1,236)	1:29:A:PHE:H	1:50:A:SER:CB	15	9.02
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	6	9.02
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	11	9.01
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	14	9.01
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	5	9.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	14	8.99
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	7	8.98
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	6	8.97
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	8	8.96
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	14	8.96
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	14	8.95
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	9	8.95
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	19	8.95
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	6	8.94
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	14	8.94
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	15	8.94
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	6	8.93
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	18	8.92
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	15	8.92
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	8	8.91
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	2	8.9
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	5	8.9
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	18	8.89
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	10	8.88
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	18	8.87
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	20	8.87
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	13	8.86
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	12	8.86
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	10	8.86
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	3	8.85
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	19	8.85
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	16	8.84
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	10	8.84
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	20	8.84
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	5	8.83
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	14	8.83
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	4	8.83
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	9	8.82
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	8	8.8
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	1	8.8
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	4	8.8
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	20	8.79
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	5	8.79
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	20	8.79
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	6	8.79
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	19	8.78
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	2	8.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	5	8.77
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	15	8.77
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	9	8.76
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	17	8.75
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	8	8.75
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	6	8.74
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	3	8.74
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	4	8.73
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	1	8.73
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	4	8.72
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	3	8.72
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	1	8.71
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	2	8.7
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	19	8.7
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	3	8.69
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	13	8.69
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	12	8.69
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	4	8.67
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	10	8.66
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	12	8.64
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	4	8.63
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	19	8.62
(1,158)	1:3:A:THR:H	1:50:A:SER:CB	6	8.61
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	13	8.6
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	19	8.59
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	16	8.59
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	3	8.56
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	6	8.55
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	6	8.55
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	8	8.53
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	9	8.53
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	15	8.53
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	10	8.52
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	6	8.52
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	15	8.52
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	7	8.51
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	13	8.5
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	14	8.5
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	20	8.49
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	2	8.48
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	17	8.47
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	18	8.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	8	8.45
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	17	8.45
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	12	8.45
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	13	8.44
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	3	8.44
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	19	8.43
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	1	8.43
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	5	8.43
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	10	8.42
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	11	8.41
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	6	8.41
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	10	8.41
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	17	8.4
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	9	8.39
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	6	8.38
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	6	8.37
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	9	8.37
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	13	8.36
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	12	8.34
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	13	8.34
(1,210)	1:24:A:ALA:CB	1:50:A:SER:H	18	8.34
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	4	8.33
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	19	8.3
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	11	8.29
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	11	8.29
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	16	8.28
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	9	8.28
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	15	8.27
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	3	8.26
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	16	8.26
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	17	8.26
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	17	8.25
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	10	8.25
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	13	8.25
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	11	8.25
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	15	8.24
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	12	8.24
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	7	8.23
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	20	8.23
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	15	8.23
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	8	8.23
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	3	8.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	14	8.22
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	8	8.22
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	20	8.22
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	17	8.22
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	2	8.22
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	17	8.21
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	10	8.21
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	4	8.21
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	4	8.2
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	20	8.19
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	7	8.19
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	5	8.17
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	8	8.16
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	17	8.15
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	1	8.15
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	9	8.15
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	13	8.15
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	16	8.14
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	7	8.14
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	11	8.13
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	14	8.13
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	20	8.12
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	15	8.12
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	4	8.12
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	12	8.12
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	7	8.11
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	5	8.11
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	10	8.1
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	18	8.09
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	4	8.08
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	2	8.08
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	2	8.07
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	7	8.06
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	8	8.04
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	19	8.04
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	7	8.03
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	16	8.03
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	11	8.02
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	15	8.01
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	8	8.01
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	14	8.01
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	4	8.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	2	8.0
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	4	8.0
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	11	8.0
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	18	8.0
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	1	7.99
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	15	7.98
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	1	7.97
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	20	7.97
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	20	7.97
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	9	7.97
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	18	7.96
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	16	7.95
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	4	7.95
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	8	7.95
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	3	7.94
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	14	7.94
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	5	7.91
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	9	7.91
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	6	7.9
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	12	7.9
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	4	7.89
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	12	7.89
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	12	7.89
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	6	7.88
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	13	7.88
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	7	7.86
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	14	7.85
(1,162)	1:4:A:ASP:H	1:50:A:SER:CB	10	7.84
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	1	7.82
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	4	7.81
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	1	7.8
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	5	7.8
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	5	7.8
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	11	7.79
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	14	7.79
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	5	7.79
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	1	7.79
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	5	7.78
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	20	7.78
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	1	7.77
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	2	7.77
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	11	7.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	8	7.76
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	13	7.76
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	16	7.76
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	1	7.75
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	18	7.74
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	3	7.74
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	15	7.74
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	12	7.72
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	18	7.71
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	17	7.7
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	7	7.7
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	11	7.69
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	5	7.69
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	12	7.69
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	12	7.68
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	19	7.68
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	13	7.66
(1,211)	1:24:A:ALA:H	1:50:A:SER:CB	20	7.66
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	5	7.65
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	1	7.65
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	9	7.64
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	14	7.63
(1,293)	1:50:A:SER:CB	1:81:A:TYR:H	2	7.62
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	10	7.61
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	2	7.61
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	18	7.59
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	15	7.59
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	5	7.59
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	18	7.59
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	17	7.55
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	6	7.55
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	17	7.55
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	6	7.54
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	17	7.54
(1,294)	1:50:A:SER:CB	1:82:A:SER:H	2	7.53
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	12	7.52
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	14	7.52
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	4	7.52
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	15	7.52
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	10	7.5
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	16	7.48
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	17	7.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	13	7.48
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	5	7.47
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	12	7.46
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	19	7.46
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	19	7.45
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	17	7.44
(1,321)	1:57:A:SER:CB	1:87:A:PHE:H	20	7.42
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	9	7.42
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	4	7.42
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	16	7.41
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	12	7.4
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	5	7.4
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	9	7.4
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	15	7.39
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	9	7.39
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	19	7.39
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	8	7.39
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	11	7.38
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	7	7.38
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	2	7.37
(1,322)	1:57:A:SER:CB	1:89:A:ALA:H	7	7.37
(1,295)	1:50:A:SER:H	1:82:A:SER:CB	19	7.36
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	6	7.35
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	3	7.35
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	3	7.34
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	15	7.34
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	13	7.33
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	10	7.32
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	13	7.31
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	2	7.3
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	16	7.29
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	9	7.29
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	13	7.29
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	6	7.28
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	20	7.27
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	5	7.26
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	13	7.25
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	16	7.25
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	3	7.24
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	10	7.24
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	11	7.24
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	16	7.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	4	7.23
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	17	7.23
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	9	7.21
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	18	7.21
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	10	7.21
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	14	7.2
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	5	7.2
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	13	7.19
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	1	7.19
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	7	7.17
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	15	7.17
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	8	7.16
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	18	7.16
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	5	7.16
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	13	7.15
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	5	7.15
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	17	7.12
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	7	7.12
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	15	7.12
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	7	7.12
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	19	7.11
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	3	7.11
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	6	7.1
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	2	7.1
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	1	7.08
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	11	7.07
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	1	7.06
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	5	7.05
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	10	7.05
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	20	7.04
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	1	7.04
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	19	7.03
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	2	7.03
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	7	7.03
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	9	7.03
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	17	7.03
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	1	7.03
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	12	7.02
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	14	7.02
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	8	7.02
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	3	7.0
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	10	6.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	20	6.98
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	2	6.97
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	14	6.97
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	6	6.95
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	13	6.95
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	13	6.94
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	17	6.94
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	2	6.93
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	5	6.91
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	3	6.91
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	8	6.89
(1,177)	1:8:A:SER:H	1:24:A:ALA:CB	10	6.89
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	7	6.88
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	10	6.88
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	17	6.88
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	3	6.87
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	1	6.87
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	16	6.85
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	3	6.85
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	14	6.81
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	7	6.81
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	4	6.8
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	12	6.8
(1,219)	1:24:A:ALA:H	1:57:A:SER:CB	20	6.79
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	1	6.79
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	11	6.79
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	15	6.78
(1,212)	1:24:A:ALA:CB	1:51:A:ARG:H	18	6.78
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	9	6.78
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	17	6.77
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	7	6.77
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	20	6.77
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	18	6.76
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	9	6.75
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	14	6.74
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	8	6.73
(1,323)	1:57:A:SER:CB	1:90:A:LYS:H	7	6.72
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	4	6.72
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	10	6.72
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	12	6.71
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	13	6.71
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	20	6.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	14	6.7
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	18	6.7
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	4	6.7
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	15	6.69
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	8	6.67
(1,301)	1:51:A:ARG:H	1:82:A:SER:CB	14	6.65
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	11	6.65
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	19	6.65
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	15	6.64
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	12	6.64
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	10	6.63
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	6	6.62
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	5	6.62
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	10	6.61
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	8	6.6
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	6	6.59
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	1	6.59
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	10	6.57
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	18	6.57
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	11	6.56
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	3	6.56
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	1	6.55
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	9	6.55
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	1	6.54
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	8	6.53
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	3	6.52
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	14	6.49
(1,213)	1:24:A:ALA:CB	1:52:A:GLY:H	16	6.47
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	7	6.46
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	12	6.45
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	15	6.45
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	6	6.45
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	13	6.45
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	18	6.44
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	12	6.44
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	14	6.43
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	12	6.43
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	6	6.42
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	1	6.4
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	18	6.39
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	15	6.39
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	14	6.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	15	6.39
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	3	6.39
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	12	6.39
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	2	6.37
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	17	6.36
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	2	6.36
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	2	6.34
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	11	6.32
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	2	6.31
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	6	6.27
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	17	6.26
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	19	6.26
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	16	6.24
(1,292)	1:50:A:SER:CB	1:80:A:GLY:H	5	6.24
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	14	6.24
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	11	6.23
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	13	6.22
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	3	6.22
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	12	6.22
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	9	6.2
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	19	6.2
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	18	6.2
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	6	6.18
(1,303)	1:52:A:GLY:H	1:82:A:SER:CB	10	6.17
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	20	6.17
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	15	6.15
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	8	6.13
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	11	6.13
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	19	6.13
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	3	6.13
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	18	6.13
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	14	6.12
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	18	6.12
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	19	6.11
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	5	6.11
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	12	6.1
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	13	6.1
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	16	6.1
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	1	6.1
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	13	6.1
(1,172)	1:6:A:GLY:H	1:50:A:SER:CB	9	6.1
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	8	6.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	2	6.09
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	6	6.09
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	9	6.09
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	20	6.09
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	18	6.09
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	19	6.09
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	1	6.08
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	5	6.08
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	10	6.08
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	17	6.08
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	3	6.07
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	4	6.07
(1,238)	1:29:A:PHE:H	1:71:A:VAL:CB	7	6.07
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	5	6.07
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	16	6.04
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	16	6.03
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	19	6.03
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	20	6.02
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	11	6.02
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	12	6.02
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	2	6.02
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	6	6.02
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	8	6.02
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	12	6.02
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	19	6.02
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	11	6.02
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	18	6.02
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	3	6.01
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	9	6.01
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	10	6.01
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	13	6.01
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	8	6.01
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	14	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	1	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	2	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	5	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	6	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	7	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	9	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	10	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	14	6.01
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	15	6.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	18	6.01
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	15	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	1	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	3	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	4	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	5	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	7	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	9	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	10	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	11	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	13	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	14	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	15	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	17	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	18	6.01
(1,266)	1:38:A:ALA:CB	1:66:A:ALA:H	20	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	7	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	11	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	12	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	13	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	14	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	15	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	16	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	17	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	19	6.01
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	20	6.01
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	8	6.01
(1,218)	1:24:A:ALA:CB	1:57:A:SER:H	2	6.01
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	8	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	1	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	3	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	10	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	14	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	15	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	17	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	19	6.01
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	20	6.01
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	2	6.01
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	7	6.01
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	13	6.01
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	14	6.01
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	15	6.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	16	6.01
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	7	6.01
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	18	6.01
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	3	6.0
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	6	6.0
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	17	6.0
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	19	6.0
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	18	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	1	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	3	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	5	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	6	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	10	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	13	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	15	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	17	6.0
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	20	6.0
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	2	6.0
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	12	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	3	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	4	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	8	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	13	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	16	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	17	6.0
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	20	6.0
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	2	6.0
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	10	6.0
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	2	6.0
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	12	6.0
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	4	6.0
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	20	6.0
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	12	6.0
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	15	6.0
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	19	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	1	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	2	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	3	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	4	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	5	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	6	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	8	6.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	9	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	10	6.0
(1,246)	1:33:A:GLY:H	1:82:A:SER:CB	18	6.0
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	5	6.0
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	8	6.0
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	16	6.0
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	4	6.0
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	9	6.0
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	17	6.0
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	20	6.0
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	1	6.0
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	20	6.0
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	16	6.0
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	13	6.0
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	18	6.0
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	19	6.0
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	8	6.0
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	13	6.0
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	3	6.0
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	8	6.0
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	12	5.99
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	4	5.99
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	7	5.99
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	4	5.99
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	10	5.99
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	17	5.99
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	12	5.99
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	10	5.99
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	10	5.99
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	15	5.99
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	17	5.99
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	10	5.99
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	6	5.98
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	4	5.98
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	1	5.98
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	7	5.98
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	7	5.98
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	6	5.98
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	15	5.97
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	9	5.97
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	14	5.97
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	6	5.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	8	5.96
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	16	5.96
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	8	5.95
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	1	5.95
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	19	5.95
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	16	5.94
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	7	5.94
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	18	5.94
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	10	5.93
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	9	5.93
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	20	5.93
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	18	5.93
(1,237)	1:29:A:PHE:H	1:57:A:SER:CB	20	5.93
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	7	5.92
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	4	5.92
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	4	5.92
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	10	5.92
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	1	5.92
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	19	5.92
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	11	5.92
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	1	5.92
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	12	5.92
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	11	5.9
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	19	5.9
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	19	5.9
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	12	5.9
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	17	5.9
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	1	5.9
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	7	5.89
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	6	5.89
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	12	5.89
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	5	5.88
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	9	5.88
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	12	5.88
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	9	5.88
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	3	5.88
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	5	5.88
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	4	5.87
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	15	5.87
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	7	5.87
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	16	5.86
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	11	5.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	11	5.86
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	14	5.86
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	15	5.85
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	13	5.85
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	19	5.85
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	20	5.85
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	11	5.84
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	8	5.84
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	17	5.84
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	3	5.84
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	5	5.83
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	14	5.83
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	9	5.83
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	5	5.83
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	11	5.82
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	2	5.82
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	20	5.81
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	9	5.81
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	12	5.8
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	16	5.8
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	16	5.8
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	18	5.8
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	6	5.8
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	6	5.8
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	9	5.78
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	15	5.78
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	12	5.78
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	19	5.78
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	3	5.78
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	7	5.78
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	5	5.78
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	18	5.78
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	14	5.77
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	12	5.77
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	3	5.77
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	19	5.77
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	1	5.76
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	13	5.76
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	6	5.76
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	10	5.76
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	9	5.76
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	4	5.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	4	5.75
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	3	5.75
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	13	5.75
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	2	5.75
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	1	5.74
(1,320)	1:57:A:SER:CB	1:86:A:GLU:H	18	5.74
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	5	5.74
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	8	5.74
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	19	5.74
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	19	5.73
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	7	5.73
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	10	5.73
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	10	5.73
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	3	5.73
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	11	5.73
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	17	5.72
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	20	5.72
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	7	5.72
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	13	5.72
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	18	5.72
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	8	5.72
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	13	5.72
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	19	5.71
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	11	5.71
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	5	5.71
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	7	5.71
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	15	5.71
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	10	5.71
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	1	5.71
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	2	5.7
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	19	5.7
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	4	5.7
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	15	5.7
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	6	5.7
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	10	5.7
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	11	5.69
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	3	5.69
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	2	5.69
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	9	5.68
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	4	5.68
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	11	5.68
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	10	5.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	18	5.67
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	6	5.67
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	11	5.66
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	16	5.66
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	10	5.66
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	16	5.66
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	12	5.66
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	3	5.66
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	6	5.66
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	18	5.65
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	16	5.65
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	14	5.65
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	4	5.65
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	7	5.64
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	14	5.64
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	17	5.64
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	6	5.64
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	16	5.64
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	12	5.63
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	20	5.63
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	19	5.63
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	2	5.63
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	17	5.62
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	14	5.62
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	13	5.62
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	14	5.62
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	4	5.62
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	7	5.62
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	1	5.62
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	20	5.61
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	8	5.61
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	4	5.61
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	14	5.6
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	11	5.6
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	5	5.6
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	4	5.59
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	7	5.59
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	17	5.59
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	3	5.59
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	17	5.59
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	4	5.59
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	15	5.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	11	5.58
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	9	5.58
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	6	5.58
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	11	5.57
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	3	5.57
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	20	5.57
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	4	5.57
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	5	5.57
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	1	5.57
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	11	5.57
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	2	5.57
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	17	5.57
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	7	5.56
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	18	5.56
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	20	5.56
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	1	5.56
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	20	5.56
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	13	5.55
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	2	5.54
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	9	5.54
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	6	5.54
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	14	5.53
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	6	5.53
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	12	5.53
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	3	5.53
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	10	5.52
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	13	5.52
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	1	5.52
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	4	5.52
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	20	5.52
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	10	5.51
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	7	5.51
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	1	5.51
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	10	5.51
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	15	5.5
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	11	5.5
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	5	5.5
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	18	5.5
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	10	5.5
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	12	5.5
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	3	5.49
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	7	5.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	11	5.49
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	18	5.49
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	13	5.49
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	7	5.49
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	19	5.48
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	5	5.48
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	3	5.48
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	3	5.47
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	7	5.47
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	4	5.47
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	15	5.47
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	15	5.47
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	13	5.47
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	3	5.46
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	8	5.46
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	14	5.45
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	18	5.45
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	2	5.45
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	16	5.44
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	7	5.44
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	11	5.44
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	15	5.44
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	17	5.44
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	7	5.44
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	10	5.44
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	8	5.43
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	8	5.43
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	1	5.43
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	9	5.43
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	18	5.43
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	6	5.43
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	20	5.43
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	7	5.43
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	10	5.42
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	7	5.42
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	13	5.42
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	14	5.42
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	17	5.42
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	20	5.42
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	13	5.41
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	6	5.41
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	5	5.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	9	5.4
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	9	5.4
(1,291)	1:50:A:SER:CB	1:78:A:GLY:H	18	5.4
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	10	5.4
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	19	5.4
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	19	5.4
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	13	5.39
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	5	5.39
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	12	5.39
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	19	5.39
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	9	5.38
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	12	5.38
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	7	5.38
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	18	5.38
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	17	5.38
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	11	5.38
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	9	5.37
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	4	5.37
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	17	5.37
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	2	5.37
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	20	5.37
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	10	5.37
(1,166)	1:5:A:THR:H	1:50:A:SER:CB	9	5.37
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	17	5.36
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	2	5.36
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	13	5.35
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	13	5.35
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	16	5.35
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	18	5.35
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	3	5.35
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	13	5.35
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	16	5.35
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	17	5.34
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	3	5.34
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	6	5.34
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	5	5.34
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	3	5.34
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	6	5.33
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	12	5.33
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	5	5.33
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	6	5.32
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	9	5.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	11	5.31
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	3	5.31
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	14	5.3
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	13	5.3
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	3	5.3
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	14	5.3
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	17	5.3
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	8	5.29
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	14	5.29
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	10	5.29
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	2	5.29
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	16	5.28
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	20	5.28
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	17	5.28
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	2	5.28
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	20	5.27
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	17	5.27
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	2	5.27
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	16	5.27
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	18	5.27
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	5	5.26
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	8	5.26
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	15	5.26
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	1	5.26
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	14	5.26
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	7	5.26
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	7	5.25
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	5	5.25
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	7	5.25
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	12	5.25
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	6	5.24
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	12	5.24
(1,288)	1:50:A:SER:CB	1:66:A:ALA:H	19	5.24
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	12	5.24
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	8	5.24
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	9	5.24
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	4	5.24
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	11	5.23
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	13	5.23
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	16	5.23
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	3	5.22
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	10	5.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:24:A:ALA:H	1:38:A:ALA:CB	12	5.22
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	4	5.22
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	18	5.22
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	3	5.21
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	11	5.21
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	7	5.21
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	9	5.21
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	4	5.2
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	20	5.2
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	10	5.2
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	9	5.2
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	16	5.19
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	5	5.19
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	4	5.19
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	18	5.19
(1,269)	1:38:A:ALA:CB	1:71:A:VAL:H	1	5.18
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	6	5.18
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	5	5.18
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	14	5.18
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	5	5.18
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	15	5.18
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	19	5.18
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	2	5.18
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	3	5.17
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	6	5.17
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	4	5.17
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	20	5.17
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	9	5.17
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	18	5.17
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	17	5.16
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	5	5.16
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	3	5.16
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	14	5.16
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	3	5.16
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	19	5.16
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	9	5.16
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	1	5.16
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	9	5.16
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	17	5.15
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	13	5.15
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	10	5.15
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	15	5.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	17	5.14
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	19	5.14
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	15	5.14
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	19	5.14
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	4	5.13
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	17	5.13
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	2	5.13
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	14	5.13
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	14	5.13
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	14	5.13
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	7	5.13
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	15	5.13
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	1	5.13
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	15	5.13
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	13	5.13
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	1	5.13
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	19	5.13
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	17	5.13
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	12	5.13
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	8	5.12
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	8	5.12
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	9	5.12
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	1	5.12
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	16	5.11
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	12	5.11
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	8	5.11
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	12	5.11
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	4	5.11
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	4	5.11
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	13	5.11
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	13	5.1
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	11	5.1
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	18	5.1
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	5	5.1
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	1	5.09
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	16	5.09
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	9	5.09
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	8	5.08
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	16	5.08
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	8	5.08
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	16	5.08
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	9	5.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	17	5.07
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	18	5.07
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	11	5.06
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	15	5.06
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	3	5.05
(1,244)	1:32:A:VAL:H	1:82:A:SER:CB	10	5.05
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	7	5.04
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	18	5.04
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	6	5.04
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	16	5.03
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	7	5.03
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	14	5.03
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	3	5.03
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	13	5.03
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	4	5.03
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	14	5.03
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	3	5.03
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	14	5.02
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	11	5.02
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	18	5.0
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	3	5.0
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	15	4.99
(1,209)	1:24:A:ALA:CB	1:45:A:LEU:H	2	4.99
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	19	4.99
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	5	4.99
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	2	4.98
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	5	4.98
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	12	4.97
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	9	4.97
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	10	4.97
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	14	4.97
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	13	4.96
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	14	4.96
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	16	4.96
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	7	4.96
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	20	4.95
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	7	4.95
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	19	4.95
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	17	4.94
(1,324)	1:57:A:SER:CB	1:92:A:LYS:H	7	4.94
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	17	4.94
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	12	4.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	2	4.94
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	13	4.94
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	15	4.94
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	10	4.94
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	18	4.93
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	12	4.93
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	17	4.93
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	12	4.92
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	11	4.92
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	3	4.92
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	2	4.92
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	8	4.92
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	4	4.91
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	5	4.91
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	5	4.91
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	1	4.9
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	6	4.9
(1,221)	1:24:A:ALA:CB	1:64:A:ARG:H	18	4.9
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	6	4.9
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	3	4.9
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	20	4.89
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	7	4.89
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	16	4.89
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	8	4.89
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	6	4.89
(1,282)	1:45:A:LEU:H	1:82:A:SER:CB	19	4.88
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	5	4.88
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	6	4.88
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	20	4.88
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	11	4.88
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	16	4.88
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	13	4.87
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	12	4.87
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	20	4.87
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	20	4.87
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	15	4.86
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	1	4.85
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	18	4.85
(1,281)	1:45:A:LEU:H	1:57:A:SER:CB	9	4.85
(1,217)	1:24:A:ALA:CB	1:56:A:MET:H	13	4.85
(1,306)	1:53:A:ASN:H	1:82:A:SER:CB	20	4.84
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	15	4.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	8	4.82
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	15	4.82
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	14	4.82
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	11	4.82
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	13	4.82
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	15	4.81
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	5	4.81
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	8	4.81
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	17	4.81
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	1	4.81
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	20	4.81
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	8	4.81
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	20	4.81
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	8	4.8
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	6	4.8
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	12	4.8
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	15	4.8
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	12	4.79
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	6	4.79
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	9	4.79
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	16	4.79
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	6	4.79
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	19	4.79
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	11	4.78
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	9	4.78
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	19	4.78
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	17	4.77
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	13	4.77
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	18	4.76
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	12	4.76
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	8	4.76
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	8	4.76
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	4	4.76
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	10	4.76
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	1	4.76
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	11	4.76
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	20	4.76
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	13	4.75
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	7	4.75
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	16	4.75
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	5	4.74
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	12	4.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	17	4.74
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	19	4.73
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	10	4.73
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	3	4.72
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	10	4.72
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	10	4.71
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	15	4.71
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	1	4.71
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	4	4.7
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	15	4.7
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	9	4.69
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	20	4.69
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	10	4.69
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	5	4.69
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	20	4.69
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	13	4.68
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	16	4.68
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	4	4.68
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	13	4.68
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	20	4.68
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	12	4.68
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	16	4.67
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	19	4.67
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	1	4.67
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	3	4.67
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	2	4.67
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	19	4.67
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	9	4.67
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	8	4.67
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	20	4.67
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	6	4.67
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	3	4.67
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	16	4.66
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	3	4.66
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	10	4.66
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	6	4.66
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	1	4.65
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	1	4.65
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	4	4.65
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	15	4.65
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	1	4.65
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	5	4.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	7	4.65
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	8	4.64
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	2	4.64
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	9	4.64
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	3	4.64
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	19	4.64
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	20	4.64
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	14	4.63
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	20	4.63
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	1	4.63
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	9	4.63
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	6	4.63
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	19	4.62
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	11	4.61
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	2	4.61
(1,220)	1:24:A:ALA:CB	1:58:A:ILE:H	18	4.61
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	9	4.6
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	19	4.6
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	16	4.59
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	9	4.59
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	7	4.59
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	13	4.59
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	11	4.58
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	3	4.58
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	18	4.58
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	6	4.58
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	2	4.58
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	1	4.58
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	5	4.58
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	4	4.58
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	15	4.58
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	2	4.57
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	18	4.57
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	10	4.57
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	13	4.57
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	17	4.56
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	9	4.56
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	17	4.56
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	20	4.56
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	10	4.55
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	7	4.55
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	1	4.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	3	4.55
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	7	4.55
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	14	4.54
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	14	4.54
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	4	4.54
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	17	4.54
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	6	4.53
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	13	4.53
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	20	4.53
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	13	4.52
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	16	4.52
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	9	4.51
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	2	4.51
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	12	4.51
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	3	4.51
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	11	4.51
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	15	4.51
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	4	4.5
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	11	4.5
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	12	4.5
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	7	4.5
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	15	4.5
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	19	4.5
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	11	4.49
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	14	4.49
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	13	4.49
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	8	4.48
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	2	4.48
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	13	4.48
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	18	4.48
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	15	4.47
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	6	4.47
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	16	4.47
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	1	4.47
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	15	4.47
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	8	4.47
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	2	4.47
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	10	4.47
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	10	4.46
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	8	4.46
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	8	4.46
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	10	4.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	7	4.46
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	1	4.45
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	6	4.45
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	6	4.45
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	15	4.45
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	12	4.45
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	1	4.45
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	10	4.44
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	3	4.44
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	13	4.44
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	11	4.44
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	17	4.44
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	19	4.44
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	6	4.44
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	17	4.44
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	1	4.44
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	8	4.44
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	12	4.43
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	18	4.43
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	8	4.43
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	14	4.43
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	11	4.43
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	20	4.42
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	11	4.42
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	9	4.42
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	9	4.42
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	11	4.42
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	19	4.41
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	10	4.41
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	17	4.41
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	12	4.41
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	2	4.4
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	15	4.4
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	17	4.4
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	19	4.4
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	5	4.4
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	17	4.4
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	5	4.4
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	2	4.39
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	1	4.39
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	2	4.39
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	6	4.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	14	4.39
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	16	4.39
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	2	4.39
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	8	4.39
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	19	4.39
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	9	4.38
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	19	4.38
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	8	4.38
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	14	4.38
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	16	4.38
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	4	4.37
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	5	4.37
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	1	4.37
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	4	4.36
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	20	4.36
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	3	4.36
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	10	4.36
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	19	4.36
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	2	4.36
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	19	4.36
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	1	4.36
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	13	4.36
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	12	4.35
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	20	4.35
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	10	4.34
(1,223)	1:24:A:ALA:CB	1:66:A:ALA:H	2	4.34
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	1	4.33
(1,271)	1:38:A:ALA:CB	1:74:A:ALA:H	17	4.33
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	7	4.33
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	19	4.32
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	12	4.32
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	20	4.32
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	3	4.32
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	5	4.32
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	19	4.32
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	4	4.31
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	10	4.31
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	3	4.31
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	14	4.3
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	5	4.29
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	1	4.29
(1,252)	1:37:A:PHE:H	1:71:A:VAL:CB	1	4.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	9	4.29
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	9	4.28
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	11	4.28
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	5	4.28
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	17	4.28
(1,159)	1:3:A:THR:H	1:57:A:SER:CB	15	4.28
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	1	4.27
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	4	4.27
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	11	4.27
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	11	4.27
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	6	4.27
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	6	4.27
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	7	4.26
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	11	4.26
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	14	4.25
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	6	4.25
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	12	4.25
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	8	4.25
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	20	4.25
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	4	4.24
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	8	4.24
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	6	4.24
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	2	4.24
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	2	4.23
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	11	4.23
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	5	4.22
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	3	4.21
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	10	4.21
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	1	4.2
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	20	4.2
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	15	4.2
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	16	4.19
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	11	4.19
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	19	4.19
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	2	4.19
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	18	4.18
(1,214)	1:24:A:ALA:CB	1:53:A:ASN:H	18	4.18
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	16	4.17
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	20	4.17
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	17	4.17
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	9	4.15
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	2	4.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	17	4.15
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	11	4.15
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	15	4.15
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	18	4.15
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	17	4.14
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	4	4.14
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	6	4.14
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	8	4.14
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	20	4.13
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	5	4.13
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	4	4.13
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	5	4.13
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	2	4.13
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	5	4.12
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	9	4.12
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	15	4.12
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	13	4.12
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	18	4.11
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	13	4.11
(1,229)	1:24:A:ALA:CB	1:81:A:TYR:H	18	4.11
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	19	4.11
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	13	4.1
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	18	4.1
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	6	4.09
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	10	4.09
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	1	4.09
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	9	4.09
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	14	4.09
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	9	4.09
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	3	4.08
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	1	4.07
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	19	4.07
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	11	4.07
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	4	4.07
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	11	4.07
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	4	4.07
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	10	4.07
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	14	4.06
(1,315)	1:57:A:SER:CB	1:78:A:GLY:H	10	4.06
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	3	4.06
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	20	4.06
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	1	4.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	5	4.05
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	3	4.05
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	17	4.05
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	12	4.05
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	3	4.05
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	2	4.04
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	3	4.04
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	7	4.04
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	6	4.04
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	15	4.04
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	13	4.03
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	9	4.03
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	13	4.03
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	14	4.03
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	6	4.03
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	4	4.02
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	5	4.02
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	8	4.02
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	10	4.02
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	17	4.02
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	6	4.02
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	18	4.02
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	14	4.02
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	17	4.01
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	16	4.01
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	2	4.01
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	8	4.0
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	9	4.0
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	13	4.0
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	19	4.0
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	12	4.0
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	10	3.99
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	14	3.99
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	16	3.99
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	18	3.99
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	2	3.99
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	14	3.99
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	8	3.99
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	7	3.99
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	12	3.99
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	1	3.99
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	14	3.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	6	3.98
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	16	3.98
(1,194)	1:18:A:SER:H	1:50:A:SER:CB	20	3.98
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	20	3.98
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	7	3.97
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	18	3.97
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	17	3.97
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	5	3.97
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	18	3.97
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	14	3.97
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	16	3.97
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	8	3.96
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	11	3.96
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	13	3.96
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	3	3.96
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	8	3.96
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	5	3.96
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	14	3.96
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	15	3.95
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	5	3.95
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	16	3.95
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	18	3.95
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	20	3.94
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	4	3.94
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	3	3.94
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	19	3.94
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	19	3.93
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	19	3.93
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	12	3.93
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	14	3.93
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	12	3.93
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	10	3.93
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	14	3.93
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	14	3.93
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	15	3.92
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	11	3.92
(1,313)	1:57:A:SER:H	1:71:A:VAL:CB	8	3.92
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	18	3.92
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	2	3.92
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	15	3.92
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	15	3.92
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	7	3.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	3	3.91
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	17	3.91
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	16	3.91
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	4	3.91
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	6	3.9
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	9	3.9
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	3	3.9
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	2	3.9
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	11	3.89
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	16	3.89
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	11	3.89
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	10	3.89
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	17	3.89
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	17	3.89
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	8	3.88
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	10	3.88
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	15	3.87
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	17	3.87
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	14	3.87
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	14	3.87
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	3	3.87
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	8	3.87
(1,195)	1:18:A:SER:H	1:57:A:SER:CB	20	3.87
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	6	3.87
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	7	3.86
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	19	3.86
(1,280)	1:44:A:GLY:H	1:82:A:SER:CB	19	3.86
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	5	3.85
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	2	3.85
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	6	3.85
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	12	3.85
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	18	3.85
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	8	3.84
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	13	3.84
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	11	3.84
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	13	3.84
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	17	3.83
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	17	3.83
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	10	3.83
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	11	3.82
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	15	3.82
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	2	3.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	5	3.81
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	2	3.8
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	19	3.8
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	2	3.8
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	4	3.8
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	13	3.8
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	15	3.8
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	10	3.8
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	14	3.79
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	7	3.79
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	10	3.79
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	9	3.79
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	8	3.79
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	5	3.79
(1,245)	1:33:A:GLY:H	1:50:A:SER:CB	20	3.79
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	1	3.79
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	4	3.79
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	7	3.78
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	18	3.78
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	3	3.78
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	1	3.78
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	5	3.78
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	2	3.78
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	4	3.77
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	17	3.77
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	8	3.77
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	11	3.77
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	15	3.77
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	10	3.76
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	10	3.76
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	6	3.76
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	14	3.75
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	20	3.75
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	14	3.75
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	11	3.75
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	17	3.74
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	18	3.74
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	7	3.74
(1,208)	1:24:A:ALA:CB	1:44:A:GLY:H	18	3.74
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	8	3.74
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	11	3.74
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	12	3.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	17	3.72
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	15	3.71
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	13	3.71
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	4	3.71
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	7	3.71
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	2	3.71
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	17	3.71
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	11	3.71
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	5	3.7
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	1	3.7
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	5	3.7
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	2	3.7
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	4	3.7
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	3	3.7
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	19	3.69
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	4	3.69
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	8	3.69
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	2	3.69
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	2	3.68
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	3	3.68
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	9	3.68
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	16	3.68
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	16	3.68
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	5	3.67
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	7	3.67
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	16	3.65
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	6	3.65
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	7	3.64
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	17	3.64
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	2	3.64
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	17	3.64
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	7	3.64
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	15	3.64
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	3	3.64
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	10	3.63
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	7	3.63
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	20	3.63
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	7	3.61
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	12	3.61
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	18	3.61
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	16	3.6
(1,224)	1:24:A:ALA:CB	1:69:A:GLY:H	2	3.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	9	3.6
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	18	3.59
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	13	3.59
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	20	3.59
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	4	3.58
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	1	3.58
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	13	3.58
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	13	3.57
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	11	3.56
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	6	3.56
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	20	3.56
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	15	3.56
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	6	3.55
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	5	3.55
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	13	3.53
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	2	3.53
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	15	3.52
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	5	3.52
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	14	3.52
(1,173)	1:6:A:GLY:H	1:57:A:SER:CB	2	3.52
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	13	3.52
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	7	3.52
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	13	3.52
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	18	3.51
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	10	3.51
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	20	3.5
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	6	3.5
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	12	3.5
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	9	3.5
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	18	3.5
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	3	3.49
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	13	3.49
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	1	3.49
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	6	3.48
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	18	3.48
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	15	3.46
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	14	3.46
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	4	3.46
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	13	3.46
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	9	3.46
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	15	3.45
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	11	3.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	19	3.44
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	19	3.43
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	3	3.43
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	4	3.43
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	2	3.43
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	19	3.43
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	5	3.43
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	20	3.42
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	4	3.42
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	9	3.41
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	11	3.41
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	13	3.41
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	8	3.4
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	19	3.4
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	19	3.4
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	8	3.4
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	16	3.4
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	1	3.39
(1,279)	1:43:A:TYR:H	1:57:A:SER:CB	20	3.39
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	11	3.39
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	13	3.39
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	2	3.38
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	11	3.38
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	9	3.38
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	6	3.38
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	13	3.37
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	5	3.37
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	13	3.36
(1,310)	1:55:A:LYS:H	1:71:A:VAL:CB	10	3.36
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	14	3.36
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	9	3.36
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	13	3.36
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	20	3.35
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	3	3.35
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	12	3.34
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	18	3.34
(1,222)	1:24:A:ALA:CB	1:65:A:VAL:H	18	3.34
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	4	3.34
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	4	3.34
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	3	3.33
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	7	3.33
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	17	3.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,199)	1:21:A:ILE:H	1:50:A:SER:CB	20	3.33
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	3	3.33
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	20	3.32
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	12	3.31
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	12	3.3
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	13	3.3
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	5	3.3
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	14	3.3
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	16	3.3
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	11	3.3
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	14	3.3
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	1	3.3
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	8	3.3
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	2	3.29
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	10	3.29
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	20	3.29
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	14	3.29
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	15	3.29
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	3	3.28
(1,326)	1:58:A:ILE:H	1:82:A:SER:CB	20	3.28
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	15	3.28
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	16	3.28
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	20	3.28
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	1	3.27
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	8	3.27
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	9	3.27
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	13	3.27
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	6	3.27
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	15	3.27
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	17	3.27
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	5	3.26
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	10	3.26
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	6	3.25
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	19	3.25
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	7	3.25
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	4	3.25
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	9	3.25
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	19	3.25
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	15	3.24
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	17	3.23
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	11	3.23
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	14	3.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	5	3.23
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	3	3.23
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	3	3.22
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	9	3.22
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	5	3.22
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	20	3.21
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	11	3.21
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	17	3.21
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	16	3.2
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	8	3.2
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	2	3.2
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	19	3.19
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	15	3.19
(1,200)	1:21:A:ILE:H	1:57:A:SER:CB	20	3.19
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	1	3.18
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	10	3.18
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	5	3.18
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	10	3.18
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	19	3.18
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	18	3.18
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	6	3.17
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	6	3.17
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	13	3.17
(1,249)	1:35:A:ALA:H	1:71:A:VAL:CB	16	3.16
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	18	3.16
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	9	3.16
(1,176)	1:7:A:VAL:H	1:71:A:VAL:CB	12	3.16
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	7	3.15
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	20	3.14
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	16	3.13
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	6	3.13
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	12	3.13
(1,308)	1:54:A:THR:H	1:71:A:VAL:CB	11	3.12
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	18	3.12
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	19	3.12
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	12	3.12
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	12	3.11
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	2	3.11
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	5	3.11
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	13	3.11
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	1	3.11
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	13	3.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,202)	1:21:A:ILE:H	1:82:A:SER:CB	15	3.11
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	3	3.11
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	19	3.1
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	2	3.1
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	2	3.1
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	6	3.09
(1,215)	1:24:A:ALA:CB	1:54:A:THR:H	2	3.09
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	7	3.09
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	19	3.08
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	1	3.08
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	18	3.08
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	6	3.08
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	13	3.08
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	15	3.08
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	5	3.07
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	10	3.06
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	9	3.06
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	13	3.05
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	17	3.05
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	18	3.05
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	14	3.05
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	4	3.05
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	4	3.05
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	2	3.05
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	20	3.05
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	12	3.04
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	17	3.04
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	15	3.04
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	4	3.04
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	3	3.03
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	10	3.03
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	20	3.03
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	10	3.02
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	3	3.02
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	19	3.02
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	15	3.02
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	6	3.02
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	16	3.01
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	9	3.01
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	20	3.01
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	7	3.0
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	17	3.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	4	3.0
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	17	3.0
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	12	3.0
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	20	3.0
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	1	3.0
(1,302)	1:52:A:GLY:H	1:71:A:VAL:CB	16	2.99
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	16	2.99
(1,192)	1:17:A:GLY:H	1:57:A:SER:CB	20	2.99
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	2	2.99
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	9	2.99
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	2	2.99
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	7	2.98
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	18	2.98
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	10	2.98
(1,216)	1:24:A:ALA:CB	1:55:A:LYS:H	18	2.97
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	14	2.96
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	9	2.96
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	18	2.96
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	15	2.96
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	14	2.96
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	6	2.94
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	7	2.94
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	7	2.94
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	11	2.93
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	12	2.93
(1,270)	1:38:A:ALA:CB	1:72:A:VAL:H	1	2.93
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	7	2.93
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	12	2.93
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	12	2.93
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	12	2.92
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	15	2.92
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	10	2.92
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	18	2.91
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	3	2.9
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	10	2.9
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	14	2.9
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	2	2.9
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	20	2.9
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	9	2.9
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	1	2.9
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	9	2.89
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	14	2.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	4	2.89
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	19	2.89
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	14	2.89
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	6	2.89
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	1	2.89
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	10	2.87
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	4	2.87
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	8	2.87
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	18	2.86
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	16	2.86
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	7	2.85
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	13	2.85
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	18	2.85
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	17	2.85
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	19	2.85
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	7	2.84
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	20	2.84
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	4	2.84
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	20	2.84
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	4	2.84
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	2	2.83
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	4	2.83
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	11	2.83
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	11	2.83
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	11	2.82
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	9	2.82
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	16	2.81
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	3	2.81
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	11	2.81
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	18	2.81
(1,258)	1:38:A:ALA:CB	1:53:A:ASN:H	7	2.81
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	6	2.81
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	14	2.81
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	12	2.8
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	1	2.8
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	8	2.8
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	8	2.8
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	16	2.8
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	16	2.8
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	12	2.79
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	20	2.79
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	18	2.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	3	2.78
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	2	2.78
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	11	2.78
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	12	2.77
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	12	2.77
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	18	2.77
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	7	2.77
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	15	2.77
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	17	2.77
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	5	2.76
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	14	2.76
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	3	2.76
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	2	2.76
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	5	2.75
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	9	2.75
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	12	2.75
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	18	2.75
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	3	2.75
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	13	2.74
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	3	2.74
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	19	2.74
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	8	2.74
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	1	2.74
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	19	2.74
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	7	2.74
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	1	2.74
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	2	2.73
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	16	2.73
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	13	2.73
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	9	2.73
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	11	2.73
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	16	2.73
(1,179)	1:8:A:SER:H	1:50:A:SER:CB	13	2.73
(1,287)	1:50:A:SER:CB	1:64:A:ARG:H	18	2.72
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	16	2.72
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	7	2.72
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	8	2.71
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	16	2.71
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	6	2.71
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	5	2.71
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	7	2.71
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	11	2.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	5	2.71
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	2	2.7
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	17	2.7
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	19	2.7
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	19	2.7
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	19	2.69
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	5	2.68
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	20	2.68
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	3	2.68
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	5	2.68
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	13	2.67
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	12	2.67
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	15	2.67
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	10	2.66
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	16	2.66
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	20	2.65
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	8	2.65
(1,319)	1:57:A:SER:H	1:82:A:SER:CB	10	2.64
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	2	2.64
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	7	2.64
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	11	2.64
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	15	2.64
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	1	2.63
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	1	2.63
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	5	2.63
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	7	2.63
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	5	2.63
(1,201)	1:21:A:ILE:H	1:71:A:VAL:CB	20	2.63
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	14	2.62
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	4	2.62
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	11	2.62
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	20	2.61
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	9	2.61
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	9	2.61
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	12	2.6
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	17	2.6
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	7	2.6
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	13	2.6
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	12	2.6
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	9	2.59
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	4	2.59
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	18	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	18	2.59
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	14	2.58
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	7	2.57
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	6	2.57
(1,187)	1:11:A:SER:H	1:71:A:VAL:CB	11	2.57
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	14	2.57
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	20	2.56
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	8	2.56
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	2	2.56
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	4	2.56
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	12	2.56
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	11	2.55
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	8	2.55
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	6	2.54
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	5	2.54
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	11	2.54
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	7	2.54
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	1	2.54
(1,262)	1:38:A:ALA:CB	1:58:A:ILE:H	15	2.54
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	2	2.53
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	5	2.53
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	13	2.53
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	16	2.53
(1,207)	1:24:A:ALA:CB	1:43:A:TYR:H	2	2.53
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	20	2.53
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	7	2.52
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	15	2.52
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	14	2.52
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	20	2.52
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	3	2.52
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	3	2.52
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	8	2.51
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	15	2.51
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	1	2.51
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	6	2.51
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	16	2.51
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	6	2.51
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	6	2.51
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	12	2.51
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	11	2.5
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	5	2.5
(1,259)	1:38:A:ALA:CB	1:54:A:THR:H	2	2.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	13	2.49
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	4	2.49
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	12	2.49
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	8	2.49
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	6	2.49
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	11	2.49
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	14	2.49
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	4	2.48
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	10	2.48
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	10	2.47
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	15	2.47
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	7	2.46
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	1	2.46
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	18	2.46
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	4	2.46
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	15	2.46
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	12	2.46
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	20	2.46
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	12	2.45
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	2	2.45
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	5	2.44
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	10	2.44
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	7	2.43
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	11	2.43
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	2	2.43
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	16	2.43
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	7	2.43
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	5	2.42
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	20	2.42
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	16	2.42
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	18	2.41
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	1	2.41
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	19	2.41
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	6	2.41
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	17	2.41
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	4	2.41
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	18	2.41
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	17	2.41
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	6	2.4
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	5	2.4
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	10	2.39
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	6	2.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	19	2.39
(1,197)	1:18:A:SER:H	1:82:A:SER:CB	16	2.39
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	12	2.39
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	11	2.39
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	3	2.38
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	17	2.38
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	5	2.38
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	7	2.37
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	4	2.37
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	9	2.37
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	11	2.37
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	14	2.37
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	17	2.37
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	16	2.37
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	15	2.36
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	19	2.36
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	4	2.35
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	6	2.35
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	7	2.35
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	19	2.34
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	17	2.34
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	17	2.34
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	10	2.34
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	3	2.34
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	6	2.34
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	15	2.34
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	4	2.34
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	6	2.34
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	1	2.34
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	4	2.33
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	9	2.32
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	3	2.32
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	18	2.32
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	2	2.32
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	3	2.32
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	9	2.32
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	5	2.31
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	17	2.31
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	2	2.31
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	1	2.3
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	9	2.3
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	3	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:38:A:ALA:CB	1:65:A:VAL:H	18	2.29
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	14	2.29
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	2	2.29
(1,167)	1:5:A:THR:H	1:57:A:SER:CB	9	2.29
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	5	2.28
(1,285)	1:48:A:LEU:H	1:71:A:VAL:CB	19	2.28
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	19	2.28
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	6	2.28
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	6	2.27
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	13	2.27
(1,277)	1:39:A:ALA:H	1:71:A:VAL:CB	16	2.26
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	3	2.25
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	14	2.24
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	12	2.24
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	18	2.24
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	6	2.24
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	7	2.24
(1,181)	1:8:A:SER:H	1:71:A:VAL:CB	18	2.24
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	13	2.23
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	12	2.22
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	11	2.22
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	17	2.22
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	10	2.21
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	20	2.21
(1,191)	1:17:A:GLY:H	1:50:A:SER:CB	20	2.21
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	5	2.21
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	15	2.2
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	6	2.2
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	2	2.2
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	2	2.19
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	8	2.19
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	3	2.19
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	16	2.19
(1,340)	1:71:A:VAL:CB	1:90:A:LYS:H	3	2.18
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	19	2.18
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	9	2.18
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	16	2.18
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	9	2.18
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	12	2.18
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	20	2.17
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	6	2.17
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	6	2.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	12	2.16
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	1	2.16
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	11	2.16
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	20	2.16
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	12	2.16
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	16	2.16
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	9	2.15
(1,334)	1:71:A:VAL:CB	1:77:A:VAL:H	16	2.15
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	12	2.15
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	13	2.15
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	6	2.15
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	5	2.15
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	17	2.15
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	14	2.15
(1,335)	1:71:A:VAL:CB	1:83:A:MET:H	7	2.14
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	20	2.14
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	6	2.14
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	12	2.14
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	19	2.14
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	11	2.14
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	4	2.14
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	5	2.13
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	9	2.12
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	11	2.12
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	5	2.11
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	20	2.11
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	7	2.11
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	14	2.11
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	20	2.11
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	8	2.1
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	10	2.1
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	13	2.1
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	18	2.09
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	7	2.08
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	5	2.08
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	4	2.07
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	8	2.07
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	15	2.07
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	19	2.07
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	11	2.06
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	12	2.06
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	7	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	1	2.05
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	11	2.05
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	15	2.05
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	1	2.04
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	8	2.04
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	16	2.04
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	17	2.04
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	6	2.03
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	9	2.03
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	1	2.03
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	8	2.02
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	13	2.02
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	10	2.01
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	15	2.01
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	9	2.01
(1,163)	1:4:A:ASP:H	1:57:A:SER:CB	10	2.01
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	13	2.0
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	8	2.0
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	18	1.99
(1,311)	1:55:A:LYS:H	1:82:A:SER:CB	10	1.99
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	1	1.99
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	7	1.99
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	1	1.99
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	4	1.98
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	16	1.98
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	3	1.98
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	1	1.98
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	18	1.97
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	19	1.97
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	16	1.97
(1,185)	1:9:A:LEU:H	1:71:A:VAL:CB	20	1.97
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	11	1.96
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	15	1.96
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	4	1.96
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	14	1.96
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	16	1.96
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	7	1.96
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	7	1.96
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	8	1.95
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	19	1.95
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	2	1.94
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	1	1.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	18	1.94
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	10	1.93
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	6	1.93
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	17	1.93
(1,251)	1:36:A:GLY:H	1:57:A:SER:CB	20	1.93
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	14	1.93
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	14	1.92
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	15	1.91
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	1	1.91
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	10	1.91
(1,180)	1:8:A:SER:H	1:57:A:SER:CB	13	1.91
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	14	1.91
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	19	1.9
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	10	1.9
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	6	1.9
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	15	1.9
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	9	1.89
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	3	1.89
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	8	1.89
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	2	1.89
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	15	1.89
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	5	1.88
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	12	1.88
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	8	1.88
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	15	1.87
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	9	1.87
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	17	1.87
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	9	1.87
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	19	1.87
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	2	1.86
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	12	1.86
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	1	1.86
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	20	1.86
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	5	1.86
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	2	1.85
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	13	1.84
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	5	1.84
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	4	1.84
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	9	1.84
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	5	1.84
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	18	1.84
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	16	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	17	1.83
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	16	1.82
(1,284)	1:47:A:LYS:H	1:71:A:VAL:CB	16	1.82
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	20	1.82
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	15	1.82
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	9	1.82
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	7	1.81
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	12	1.81
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	1	1.81
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	3	1.81
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	7	1.81
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	9	1.81
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	4	1.8
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	10	1.8
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	10	1.8
(1,161)	1:4:A:ASP:H	1:38:A:ALA:CB	16	1.8
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	8	1.79
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	14	1.78
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	7	1.78
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	12	1.78
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	20	1.78
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	8	1.77
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	14	1.77
(1,318)	1:57:A:SER:CB	1:82:A:SER:H	18	1.77
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	16	1.77
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	13	1.77
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	17	1.77
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	1	1.77
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	15	1.76
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	2	1.76
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	1	1.76
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	4	1.76
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	4	1.75
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	2	1.75
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	6	1.75
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	3	1.75
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	9	1.75
(1,309)	1:54:A:THR:H	1:82:A:SER:CB	11	1.74
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	19	1.73
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	10	1.73
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	17	1.73
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	2	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	4	1.72
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	13	1.72
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	19	1.72
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	6	1.72
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	10	1.72
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	13	1.72
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	17	1.71
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	1	1.71
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	14	1.71
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	17	1.71
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	11	1.7
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	3	1.7
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	6	1.7
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	11	1.69
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	16	1.69
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	18	1.69
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	18	1.69
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	8	1.69
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	6	1.69
(1,193)	1:17:A:GLY:H	1:71:A:VAL:CB	17	1.69
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	8	1.68
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	14	1.68
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	18	1.68
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	16	1.67
(1,278)	1:40:A:ILE:H	1:71:A:VAL:CB	1	1.67
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	20	1.67
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	2	1.66
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	15	1.66
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	18	1.66
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	4	1.66
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	13	1.65
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	7	1.65
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	10	1.65
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	13	1.64
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	6	1.64
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	6	1.64
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	20	1.62
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	20	1.62
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	4	1.62
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	14	1.62
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	20	1.62
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	10	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	7	1.61
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	12	1.61
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	18	1.61
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	11	1.61
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	1	1.61
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	15	1.59
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	17	1.59
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	19	1.59
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	8	1.59
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	16	1.58
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	20	1.58
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	7	1.58
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	13	1.58
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	11	1.58
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	1	1.57
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	12	1.57
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	19	1.57
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	20	1.57
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	15	1.57
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	16	1.57
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	14	1.57
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	12	1.57
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	7	1.57
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	14	1.56
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	5	1.56
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	10	1.56
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	8	1.56
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	17	1.56
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	3	1.55
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	12	1.55
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	3	1.55
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	5	1.55
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	2	1.55
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	14	1.55
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	15	1.54
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	18	1.54
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	16	1.54
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	4	1.54
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	18	1.54
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	3	1.54
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	20	1.54
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	4	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	4	1.53
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	19	1.53
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	3	1.53
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	7	1.53
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	8	1.53
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	2	1.53
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	8	1.52
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	16	1.52
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	11	1.52
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	8	1.51
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	9	1.51
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	13	1.51
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	19	1.51
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	12	1.51
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	3	1.5
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	2	1.49
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	6	1.49
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	18	1.49
(1,240)	1:30:A:VAL:H	1:38:A:ALA:CB	11	1.48
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	17	1.48
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	7	1.48
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	18	1.48
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	11	1.47
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	3	1.47
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	9	1.47
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	12	1.47
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	8	1.47
(1,239)	1:29:A:PHE:H	1:82:A:SER:CB	15	1.47
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	10	1.46
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	16	1.46
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	5	1.46
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	1	1.46
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	12	1.46
(1,189)	1:16:A:GLN:H	1:38:A:ALA:CB	17	1.46
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	18	1.45
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	9	1.45
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	18	1.45
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	8	1.44
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	12	1.44
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	10	1.44
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	8	1.44
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	3	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	18	1.43
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	12	1.43
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	18	1.43
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	6	1.43
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	11	1.43
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	1	1.43
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	8	1.42
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	12	1.42
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	10	1.41
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	8	1.41
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	15	1.41
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	12	1.4
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	2	1.4
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	11	1.4
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	12	1.4
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	2	1.4
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	8	1.4
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	4	1.4
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	15	1.4
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	6	1.4
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	9	1.4
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	1	1.4
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	9	1.4
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	1	1.4
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	19	1.39
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	15	1.38
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	5	1.38
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	15	1.38
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	18	1.38
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	9	1.38
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	5	1.38
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	3	1.38
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	15	1.38
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	14	1.37
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	16	1.37
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	14	1.37
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	5	1.37
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	14	1.37
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	5	1.37
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	1	1.37
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	7	1.37
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	1	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	13	1.36
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	16	1.36
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	9	1.36
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	14	1.35
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	7	1.35
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	20	1.35
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	5	1.35
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	11	1.35
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	11	1.34
(1,264)	1:38:A:ALA:CB	1:64:A:ARG:H	16	1.34
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	3	1.34
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	5	1.34
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	12	1.34
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	15	1.34
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	7	1.34
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	18	1.34
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	7	1.33
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	10	1.33
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	17	1.33
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	14	1.33
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	7	1.33
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	2	1.33
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	16	1.33
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	15	1.33
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	11	1.33
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	20	1.33
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	20	1.32
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	18	1.32
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	13	1.32
(1,157)	1:3:A:THR:H	1:38:A:ALA:CB	8	1.32
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	17	1.31
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	1	1.31
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	2	1.31
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	9	1.31
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	9	1.3
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	17	1.3
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	14	1.3
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	10	1.3
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	4	1.3
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	19	1.3
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	2	1.3
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	13	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	14	1.29
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	15	1.29
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	6	1.29
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	8	1.29
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	13	1.29
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	13	1.29
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	20	1.28
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	16	1.28
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	15	1.28
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	17	1.28
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	8	1.28
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	16	1.28
(1,328)	1:64:A:ARG:H	1:71:A:VAL:CB	8	1.27
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	5	1.27
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	5	1.27
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	17	1.27
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	9	1.27
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	20	1.26
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	2	1.26
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	9	1.26
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	5	1.26
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	15	1.25
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	18	1.25
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	2	1.25
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	2	1.25
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	4	1.25
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	2	1.25
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	16	1.25
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	2	1.24
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	3	1.24
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	17	1.24
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	11	1.24
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	20	1.24
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	18	1.24
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	20	1.24
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	1	1.24
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	20	1.23
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	4	1.23
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	4	1.23
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	10	1.23
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	16	1.22
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	19	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	6	1.21
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	12	1.21
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	3	1.21
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	20	1.21
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	14	1.21
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	7	1.21
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	14	1.2
(1,317)	1:57:A:SER:CB	1:81:A:TYR:H	10	1.2
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	15	1.2
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	13	1.2
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	19	1.19
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	9	1.19
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	2	1.19
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	11	1.19
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	17	1.18
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	8	1.18
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	9	1.18
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	19	1.18
(1,253)	1:38:A:ALA:CB	1:48:A:LEU:H	19	1.18
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	16	1.18
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	2	1.18
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	6	1.18
(1,263)	1:38:A:ALA:CB	1:60:A:LEU:H	18	1.17
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	1	1.17
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	6	1.17
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	18	1.17
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	12	1.17
(1,171)	1:6:A:GLY:H	1:38:A:ALA:CB	10	1.17
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	9	1.16
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	11	1.16
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	4	1.16
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	13	1.15
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	5	1.15
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	9	1.15
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	10	1.15
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	15	1.15
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	10	1.14
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	9	1.14
(1,247)	1:34:A:ILE:H	1:38:A:ALA:CB	7	1.14
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	8	1.14
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	19	1.13
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	18	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	4	1.13
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	3	1.12
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	17	1.12
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	6	1.12
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	9	1.12
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	13	1.11
(1,329)	1:64:A:ARG:H	1:82:A:SER:CB	19	1.11
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	2	1.1
(1,286)	1:49:A:LYS:H	1:71:A:VAL:CB	16	1.1
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	3	1.1
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	17	1.1
(1,190)	1:16:A:GLN:H	1:71:A:VAL:CB	7	1.1
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	8	1.1
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	13	1.1
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	4	1.09
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	6	1.09
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	17	1.09
(1,257)	1:38:A:ALA:CB	1:52:A:GLY:H	16	1.09
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	2	1.09
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	15	1.09
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	11	1.09
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	13	1.08
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	10	1.08
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	17	1.08
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	6	1.08
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	16	1.07
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	14	1.07
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	15	1.07
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	1	1.07
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	18	1.07
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	10	1.07
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	5	1.07
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	1	1.07
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	14	1.07
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	6	1.06
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	4	1.06
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	1	1.06
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	7	1.06
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	7	1.06
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	19	1.06
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	13	1.05
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	9	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	9	1.04
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	6	1.04
(1,205)	1:24:A:ALA:CB	1:36:A:GLY:H	2	1.04
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	12	1.03
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	4	1.03
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	17	1.03
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	6	1.03
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	14	1.03
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	15	1.02
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	20	1.02
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	18	1.02
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	16	1.02
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	5	1.02
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	12	1.01
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	5	1.01
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	16	1.01
(1,248)	1:34:A:ILE:H	1:71:A:VAL:CB	12	1.01
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	16	1.01
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	9	1.01
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	8	1.0
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	6	1.0
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	7	1.0
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	13	1.0
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	14	1.0
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	20	1.0
(1,196)	1:18:A:SER:H	1:71:A:VAL:CB	16	1.0
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	2	1.0
(1,183)	1:9:A:LEU:H	1:38:A:ALA:CB	9	1.0
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	3	0.99
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	6	0.99
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	7	0.99
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	15	0.99
(1,198)	1:20:A:LEU:H	1:71:A:VAL:CB	18	0.99
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	18	0.98
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	3	0.98
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	15	0.98
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	10	0.98
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	19	0.98
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	8	0.98
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	5	0.98
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	4	0.97
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	11	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	13	0.96
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	4	0.96
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	20	0.96
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	1	0.96
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	17	0.96
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	1	0.96
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	6	0.96
(1,327)	1:60:A:LEU:H	1:71:A:VAL:CB	18	0.95
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	15	0.95
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	14	0.94
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	20	0.94
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	2	0.94
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	17	0.93
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	8	0.93
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	4	0.93
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	10	0.93
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	8	0.92
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	19	0.92
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	2	0.92
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	16	0.92
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	1	0.92
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	6	0.92
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	5	0.91
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	19	0.91
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	19	0.91
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	1	0.91
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	19	0.9
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	2	0.9
(1,332)	1:69:A:GLY:H	1:82:A:SER:CB	20	0.89
(1,330)	1:65:A:VAL:H	1:82:A:SER:CB	20	0.89
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	10	0.89
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	14	0.89
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	1	0.89
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	13	0.89
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	12	0.89
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	11	0.89
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	16	0.89
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	1	0.88
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	7	0.88
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	14	0.88
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	12	0.88
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	10	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	8	0.88
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	17	0.87
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	12	0.86
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	13	0.86
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	2	0.86
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	13	0.86
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	18	0.86
(1,234)	1:24:A:ALA:CB	1:92:A:LYS:H	6	0.86
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	14	0.86
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	6	0.86
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	15	0.85
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	4	0.85
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	16	0.85
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	10	0.85
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	17	0.85
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	1	0.84
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	3	0.84
(1,337)	1:71:A:VAL:CB	1:87:A:PHE:H	17	0.83
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	6	0.83
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	11	0.83
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	15	0.83
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	2	0.83
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	3	0.82
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	8	0.82
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	15	0.82
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	19	0.82
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	10	0.81
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	14	0.81
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	13	0.81
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	9	0.81
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	18	0.81
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	9	0.81
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	11	0.81
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	13	0.81
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	19	0.81
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	13	0.81
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	2	0.8
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	1	0.8
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	11	0.8
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	12	0.8
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	2	0.8
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	8	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	18	0.79
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	12	0.79
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	10	0.79
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	7	0.78
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	16	0.78
(1,165)	1:5:A:THR:H	1:38:A:ALA:CB	2	0.78
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	17	0.77
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	9	0.77
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	8	0.77
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	1	0.77
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	1	0.77
(1,170)	1:6:A:GLY:H	1:24:A:ALA:CB	14	0.77
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	9	0.76
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	5	0.76
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	9	0.76
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	8	0.76
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	7	0.76
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	1	0.76
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	12	0.75
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	2	0.75
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	12	0.75
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	3	0.75
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	2	0.75
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	7	0.75
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	7	0.74
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	9	0.74
(1,174)	1:6:A:GLY:H	1:82:A:SER:CB	10	0.74
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	20	0.73
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	5	0.73
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	11	0.73
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	6	0.73
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	2	0.73
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	10	0.73
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	11	0.73
(1,338)	1:71:A:VAL:CB	1:88:A:TRP:H	13	0.72
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	19	0.72
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	12	0.71
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	12	0.71
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	14	0.71
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	17	0.71
(1,283)	1:46:A:TYR:H	1:71:A:VAL:CB	16	0.7
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	9	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	20	0.69
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	7	0.69
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	8	0.69
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	3	0.69
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	5	0.68
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	2	0.68
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	14	0.68
(1,316)	1:57:A:SER:CB	1:80:A:GLY:H	15	0.68
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	3	0.68
(1,231)	1:24:A:ALA:CB	1:87:A:PHE:H	9	0.68
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	19	0.68
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	17	0.68
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	8	0.67
(1,268)	1:38:A:ALA:CB	1:70:A:PHE:H	5	0.67
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	7	0.67
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	13	0.67
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	5	0.66
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	8	0.66
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	6	0.66
(1,233)	1:24:A:ALA:CB	1:90:A:LYS:H	14	0.66
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	14	0.66
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	2	0.65
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	16	0.65
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	1	0.65
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	9	0.65
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	10	0.64
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	12	0.64
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	17	0.64
(1,230)	1:24:A:ALA:CB	1:86:A:GLU:H	13	0.64
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	14	0.64
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	8	0.63
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	4	0.63
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	8	0.63
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	20	0.63
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	1	0.62
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	5	0.62
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	20	0.62
(1,273)	1:38:A:ALA:CB	1:88:A:TRP:H	13	0.62
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	14	0.62
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	19	0.62
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	3	0.62
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	11	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	10	0.61
(1,255)	1:38:A:ALA:CB	1:50:A:SER:H	4	0.61
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	18	0.61
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	13	0.61
(1,204)	1:24:A:ALA:CB	1:33:A:GLY:H	16	0.61
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	17	0.61
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	7	0.6
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	10	0.6
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	15	0.6
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	4	0.59
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	17	0.59
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	3	0.59
(1,254)	1:38:A:ALA:CB	1:49:A:LYS:H	8	0.59
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	9	0.59
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	3	0.58
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	15	0.58
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	3	0.58
(1,160)	1:4:A:ASP:H	1:24:A:ALA:CB	8	0.58
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	17	0.57
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	9	0.57
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	4	0.57
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	9	0.56
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	18	0.56
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	14	0.56
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	16	0.56
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	2	0.56
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	18	0.56
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	20	0.56
(1,182)	1:8:A:SER:H	1:82:A:SER:CB	10	0.55
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	12	0.54
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	12	0.54
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	2	0.53
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	13	0.53
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	17	0.53
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	4	0.53
(1,272)	1:38:A:ALA:CB	1:85:A:ARG:H	16	0.52
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	18	0.52
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	20	0.52
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	7	0.52
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	19	0.51
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	1	0.51
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	17	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	11	0.51
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	19	0.5
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	5	0.5
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	6	0.49
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	2	0.49
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	18	0.49
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	1	0.49
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	11	0.48
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	7	0.48
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	17	0.48
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	11	0.47
(1,341)	1:71:A:VAL:CB	1:92:A:LYS:H	14	0.47
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	5	0.47
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	7	0.47
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	2	0.47
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	16	0.46
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	9	0.46
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	13	0.46
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	8	0.46
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	7	0.46
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	10	0.46
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	9	0.45
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	19	0.45
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	11	0.45
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	1	0.44
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	2	0.44
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	4	0.44
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	2	0.43
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	6	0.43
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	19	0.43
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	5	0.43
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	12	0.43
(1,339)	1:71:A:VAL:CB	1:89:A:ALA:H	3	0.42
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	6	0.42
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	18	0.42
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	14	0.42
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	15	0.42
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	1	0.41
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	15	0.41
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	10	0.41
(1,242)	1:32:A:VAL:H	1:38:A:ALA:CB	11	0.41
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	18	0.4
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	4	0.39
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	2	0.39
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	6	0.39
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	14	0.39
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	18	0.38
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	6	0.38
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	18	0.38
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	2	0.38
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	11	0.38
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	20	0.37
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	10	0.36
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	12	0.36
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	14	0.36
(1,175)	1:7:A:VAL:H	1:38:A:ALA:CB	4	0.36
(1,169)	1:5:A:THR:H	1:82:A:SER:CB	15	0.36
(1,168)	1:5:A:THR:H	1:71:A:VAL:CB	9	0.36
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	8	0.35
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	15	0.35
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	17	0.35
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	11	0.35
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	4	0.35
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	11	0.35
(1,235)	1:29:A:PHE:H	1:38:A:ALA:CB	11	0.35
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	10	0.34
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	14	0.34
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	18	0.34
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	19	0.34
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	5	0.34
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	20	0.34
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	8	0.33
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	19	0.33
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	6	0.33
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	11	0.33
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	12	0.33
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	1	0.33
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	12	0.32
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	16	0.32
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	6	0.32
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	10	0.32
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	12	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	3	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	4	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	5	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	9	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	13	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	16	0.32
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	17	0.32
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	2	0.32
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	9	0.32
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	4	0.32
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	9	0.31
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	17	0.31
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	20	0.31
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	19	0.31
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	6	0.31
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	8	0.31
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	13	0.31
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	18	0.31
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	19	0.31
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	16	0.31
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	1	0.31
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	2	0.31
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	3	0.31
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	14	0.31
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	16	0.31
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	1	0.31
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	20	0.31
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	3	0.31
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	5	0.31
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	3	0.31
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	9	0.3
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	17	0.3
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	19	0.3
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	3	0.3
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	7	0.3
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	8	0.3
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	10	0.3
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	19	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	2	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	3	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	4	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	7	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	9	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	10	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	12	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	14	0.3
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	20	0.3
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	9	0.3
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	16	0.3
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	17	0.3
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	19	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	3	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	5	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	7	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	10	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	14	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	17	0.3
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	20	0.3
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	19	0.3
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	4	0.3
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	9	0.3
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	17	0.3
(2,88)	1:30:A:VAL:O	1:34:A:ILE:N	7	0.3
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	14	0.3
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	20	0.3
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	3	0.3
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	3	0.29
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	10	0.29
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	8	0.29
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	1	0.29
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	6	0.29
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	14	0.29
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	18	0.29
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	3	0.29
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	10	0.29
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	1	0.29
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	15	0.29
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	17	0.29
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	11	0.29
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	13	0.29
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	18	0.29
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	2	0.29
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	19	0.29
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	20	0.29
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	9	0.29
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	12	0.29
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	18	0.29
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	20	0.29
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	13	0.29
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	8	0.29
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	17	0.29
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	6	0.29
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	1	0.28
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	8	0.28
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	11	0.28
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	15	0.28
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	6	0.28
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	20	0.28
(2,113)	1:75:A:MET:O	1:79:A:MET:N	17	0.28
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	4	0.28
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	17	0.28
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	18	0.28
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	2	0.28
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	4	0.28
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	11	0.28
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	15	0.28
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	13	0.28
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	20	0.28
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	2	0.28
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	9	0.28
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	19	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	1	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	8	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	9	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	11	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	12	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	13	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	17	0.28
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	18	0.28
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	6	0.28
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	13	0.28
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	16	0.28
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	15	0.28
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	20	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	17	0.28
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	10	0.28
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	13	0.28
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	15	0.28
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	13	0.28
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	7	0.27
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	13	0.27
(2,113)	1:75:A:MET:O	1:79:A:MET:N	20	0.27
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	13	0.27
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	5	0.27
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	13	0.27
(2,111)	1:73:A:GLY:O	1:77:A:VAL:N	16	0.27
(2,108)	1:70:A:PHE:O	1:74:A:ALA:N	11	0.27
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	6	0.27
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	3	0.27
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	4	0.27
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	10	0.27
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	15	0.27
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	9	0.27
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	17	0.27
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	5	0.27
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	11	0.27
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	5	0.27
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	13	0.27
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	8	0.27
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	12	0.26
(2,113)	1:75:A:MET:O	1:79:A:MET:N	3	0.26
(2,113)	1:75:A:MET:O	1:79:A:MET:N	6	0.26
(2,113)	1:75:A:MET:O	1:79:A:MET:N	9	0.26
(2,113)	1:75:A:MET:O	1:79:A:MET:N	10	0.26
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	6	0.26
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	11	0.26
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	9	0.26
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	4	0.26
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	4	0.26
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	7	0.26
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	14	0.26
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	20	0.26
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	16	0.26
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	19	0.26
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	1	0.26
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	5	0.26
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	7	0.26
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	15	0.26
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	7	0.26
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	11	0.26
(2,92)	1:34:A:ILE:O	1:38:A:ALA:N	18	0.26
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	14	0.26
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	19	0.26
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	17	0.26
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	16	0.26
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	9	0.26
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	6	0.25
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	13	0.25
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	14	0.25
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	20	0.25
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	4	0.25
(2,113)	1:75:A:MET:O	1:79:A:MET:N	19	0.25
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	16	0.25
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	8	0.25
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	10	0.25
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	11	0.25
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	9	0.25
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	10	0.25
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	7	0.25
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	18	0.25
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	17	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	2	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	3	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	4	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	9	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	16	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	17	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	18	0.24
(2,113)	1:75:A:MET:O	1:79:A:MET:N	13	0.24
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	19	0.24
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	18	0.24
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	12	0.24
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	15	0.24
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	4	0.24
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	14	0.24
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	8	0.24
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	5	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	15	0.24
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	19	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	1	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	2	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	3	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	4	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	7	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	8	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	11	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	15	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	16	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	18	0.24
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	20	0.24
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	7	0.24
(1,331)	1:66:A:ALA:H	1:82:A:SER:CB	20	0.24
(1,314)	1:57:A:SER:CB	1:76:A:THR:H	18	0.24
(1,267)	1:38:A:ALA:CB	1:68:A:GLN:H	10	0.24
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	5	0.23
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	10	0.23
(2,115)	1:77:A:VAL:O	1:81:A:TYR:N	19	0.23
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	2	0.23
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	3	0.23
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	7	0.23
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	15	0.23
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	3	0.23
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	7	0.23
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	20	0.23
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	16	0.23
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	3	0.23
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	4	0.23
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	7	0.23
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	5	0.23
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	6	0.23
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	12	0.23
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	13	0.23
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	14	0.23
(2,80)	1:16:A:GLN:O	1:20:A:LEU:N	17	0.23
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	14	0.23
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	4	0.23
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	3	0.23
(1,226)	1:24:A:ALA:CB	1:73:A:GLY:H	5	0.23
(1,226)	1:24:A:ALA:CB	1:73:A:GLY:H	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:24:A:ALA:CB	1:73:A:GLY:H	14	0.23
(2,104)	1:66:A:ALA:O	1:70:A:PHE:N	5	0.22
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	14	0.22
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	8	0.22
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	2	0.22
(1,307)	1:54:A:THR:H	1:57:A:SER:CB	6	0.22
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	16	0.22
(1,256)	1:38:A:ALA:CB	1:51:A:ARG:H	9	0.22
(1,250)	1:36:A:GLY:H	1:50:A:SER:CB	3	0.22
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	5	0.22
(1,184)	1:9:A:LEU:H	1:50:A:SER:CB	2	0.22
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	3	0.21
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	20	0.21
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	2	0.21
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	6	0.21
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	10	0.21
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	11	0.21
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	16	0.21
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	1	0.21
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	16	0.21
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	16	0.21
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	10	0.21
(1,232)	1:24:A:ALA:CB	1:89:A:ALA:H	1	0.21
(1,186)	1:11:A:SER:H	1:38:A:ALA:CB	16	0.21
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	1	0.21
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	20	0.2
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	5	0.2
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	14	0.2
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	4	0.2
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	9	0.2
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	17	0.2
(1,336)	1:71:A:VAL:CB	1:86:A:GLU:H	18	0.2
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	6	0.2
(1,226)	1:24:A:ALA:CB	1:73:A:GLY:H	11	0.2
(1,149)	1:71:A:VAL:CB	1:88:A:TRP:H	9	0.2
(1,149)	1:71:A:VAL:CB	1:88:A:TRP:H	19	0.2
(1,8)	1:6:A:GLY:H	1:38:A:ALA:CB	18	0.2
(2,117)	1:79:A:MET:O	1:82:A:SER:N	9	0.19
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	10	0.19
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	6	0.19
(2,105)	1:67:A:ALA:O	1:71:A:VAL:N	8	0.19
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,325)	1:58:A:ILE:H	1:71:A:VAL:CB	14	0.19
(1,312)	1:56:A:MET:H	1:82:A:SER:CB	13	0.19
(1,274)	1:38:A:ALA:CB	1:89:A:ALA:H	13	0.19
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	9	0.19
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	4	0.19
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	13	0.19
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	13	0.18
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	14	0.18
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	17	0.18
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	5	0.18
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	19	0.18
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	2	0.18
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	8	0.18
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	5	0.18
(1,290)	1:50:A:SER:H	1:71:A:VAL:CB	15	0.18
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	11	0.18
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	11	0.17
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	1	0.17
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	10	0.17
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	14	0.17
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	2	0.17
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	12	0.17
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	18	0.17
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	8	0.17
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	7	0.17
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	1	0.17
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	20	0.17
(1,260)	1:38:A:ALA:CB	1:55:A:LYS:H	17	0.17
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	1	0.17
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	17	0.17
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	19	0.17
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	6	0.17
(1,178)	1:8:A:SER:H	1:38:A:ALA:CB	4	0.17
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	6	0.16
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	12	0.16
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	9	0.16
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	8	0.16
(2,96)	1:38:A:ALA:O	1:42:A:ALA:N	3	0.16
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	13	0.16
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	3	0.16
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	15	0.16
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	19	0.16
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	14	0.16
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	20	0.16
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	10	0.16
(1,267)	1:38:A:ALA:CB	1:68:A:GLN:H	14	0.16
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	10	0.16
(1,188)	1:11:A:SER:H	1:82:A:SER:CB	4	0.16
(2,117)	1:79:A:MET:O	1:82:A:SER:N	3	0.15
(2,107)	1:69:A:GLY:O	1:73:A:GLY:N	15	0.15
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	7	0.15
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	10	0.15
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	13	0.15
(1,227)	1:24:A:ALA:CB	1:76:A:THR:H	18	0.15
(1,226)	1:24:A:ALA:CB	1:73:A:GLY:H	4	0.15
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	8	0.15
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	15	0.15
(2,117)	1:79:A:MET:O	1:82:A:SER:N	19	0.14
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	9	0.14
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	13	0.14
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	16	0.14
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	1	0.14
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	11	0.14
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	5	0.14
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	14	0.14
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	10	0.14
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	1	0.14
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	1	0.14
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	14	0.14
(2,75)	1:78:A:GLY:O	1:82:A:SER:H	17	0.14
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	6	0.14
(1,305)	1:53:A:ASN:H	1:71:A:VAL:CB	14	0.14
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	6	0.14
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	3	0.14
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	7	0.14
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	10	0.14
(2,117)	1:79:A:MET:O	1:82:A:SER:N	10	0.13
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	19	0.13
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	3	0.13
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	3	0.13
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	4	0.13
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	7	0.13
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	13	0.13
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	13	0.13
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	4	0.13
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	16	0.13
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	11	0.13
(2,89)	1:31:A:PRO:O	1:35:A:ALA:N	17	0.13
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	11	0.13
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	13	0.13
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	16	0.13
(1,333)	1:71:A:VAL:CB	1:76:A:THR:H	12	0.13
(1,289)	1:50:A:SER:CB	1:69:A:GLY:H	12	0.13
(1,267)	1:38:A:ALA:CB	1:68:A:GLN:H	3	0.13
(1,261)	1:38:A:ALA:CB	1:57:A:SER:H	7	0.13
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	8	0.13
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	11	0.13
(2,116)	1:78:A:GLY:O	1:82:A:SER:N	10	0.12
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	1	0.12
(2,110)	1:72:A:VAL:O	1:76:A:THR:N	20	0.12
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	1	0.12
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	8	0.12
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	12	0.12
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	3	0.12
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	10	0.12
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	5	0.12
(2,95)	1:37:A:PHE:O	1:41:A:VAL:N	10	0.12
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	5	0.12
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	7	0.12
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	4	0.12
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	6	0.12
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	9	0.12
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	12	0.12
(1,342)	1:73:A:GLY:H	1:82:A:SER:CB	15	0.12
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	1	0.12
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	2	0.12
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	4	0.12
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	5	0.12
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	9	0.12
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	17	0.12
(1,225)	1:24:A:ALA:H	1:71:A:VAL:CB	15	0.12
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	14	0.12
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	18	0.12
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	7	0.11
(2,109)	1:71:A:VAL:O	1:75:A:MET:N	8	0.11
(2,106)	1:68:A:GLN:O	1:72:A:VAL:N	15	0.11
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	11	0.11
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	9	0.11
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	20	0.11
(2,99)	1:41:A:VAL:O	1:45:A:LEU:N	3	0.11
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	14	0.11
(2,98)	1:40:A:ILE:O	1:44:A:GLY:N	17	0.11
(2,91)	1:33:A:GLY:O	1:37:A:PHE:N	8	0.11
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	12	0.11
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	14	0.11
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	15	0.11
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	17	0.11
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	5	0.11
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	8	0.11
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	14	0.11
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	17	0.11
(2,82)	1:17:A:GLY:O	1:21:A:ILE:N	20	0.11
(2,75)	1:78:A:GLY:O	1:82:A:SER:H	19	0.11
(2,75)	1:78:A:GLY:O	1:82:A:SER:H	20	0.11
(1,304)	1:53:A:ASN:H	1:57:A:SER:CB	16	0.11
(1,275)	1:38:A:ALA:CB	1:90:A:LYS:H	13	0.11
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	6	0.11
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	14	0.11
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	16	0.11
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	20	0.11
(1,228)	1:24:A:ALA:CB	1:80:A:GLY:H	1	0.11
(1,203)	1:22:A:ARG:H	1:38:A:ALA:CB	20	0.11
(1,164)	1:4:A:ASP:H	1:82:A:SER:CB	3	0.11
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	19	0.11
(2,114)	1:76:A:THR:O	1:80:A:GLY:N	18	0.1
(2,112)	1:74:A:ALA:O	1:78:A:GLY:N	12	0.1
(2,102)	1:65:A:VAL:O	1:69:A:GLY:N	17	0.1
(2,100)	1:42:A:ALA:O	1:46:A:TYR:N	17	0.1
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	3	0.1
(2,85)	1:19:A:LYS:O	1:22:A:ARG:N	6	0.1
(1,276)	1:38:A:ALA:CB	1:92:A:LYS:H	4	0.1
(1,243)	1:32:A:VAL:H	1:71:A:VAL:CB	12	0.1
(1,241)	1:30:A:VAL:H	1:71:A:VAL:CB	13	0.1
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	12	0.1
(1,49)	1:29:A:PHE:H	1:71:A:VAL:CB	16	0.1

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found