



Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2023 – 07:54 pm BST

PDB ID : 7AFR
BMRB ID : 34562
Title : Ribosome maturation factor RimP (apo)
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Deposited on : 2020-09-19

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

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

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with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

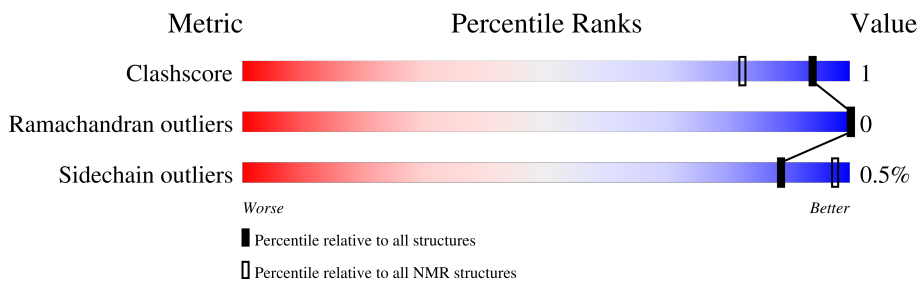
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR


The overall completeness of chemical shifts assignment is 87%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	X	151	

2 Ensemble composition and analysis i

This entry contains 20 models. Model 10 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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	X:4-X:78 (75)	0.71	10
2	X:84-X:148 (65)	0.65	10

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 3 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2349 atoms, of which 1174 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Ribosome maturation factor RimP.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	X	151	2349	742	1174	197	231	5	0

There is a discrepancy between the modelled and reference sequences:

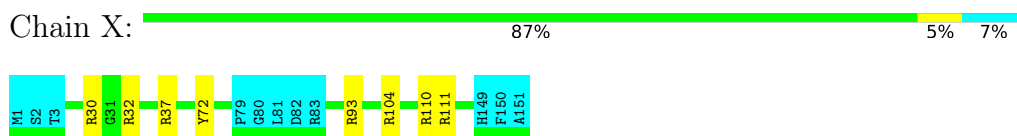
Chain	Residue	Modelled	Actual	Comment	Reference
X	151	ALA	-	expression tag	UNP A0A0J3VRH1

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: Ribosome maturation factor RimP

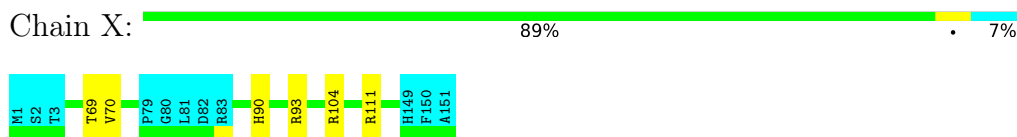


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

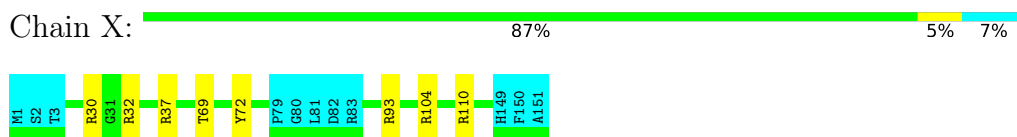
4.2.1 Score per residue for model 1

- Molecule 1: Ribosome maturation factor RimP




4.2.2 Score per residue for model 2

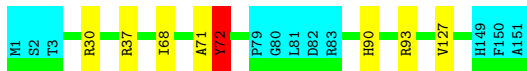
- Molecule 1: Ribosome maturation factor RimP



4.2.3 Score per residue for model 3


- Molecule 1: Ribosome maturation factor RimP

Chain X:  87% 5% • 7%



4.2.4 Score per residue for model 4


- Molecule 1: Ribosome maturation factor RimP

Chain X:  87% 5% • 7%



4.2.5 Score per residue for model 5


- Molecule 1: Ribosome maturation factor RimP

Chain X:  90% • 7%



4.2.6 Score per residue for model 6


- Molecule 1: Ribosome maturation factor RimP

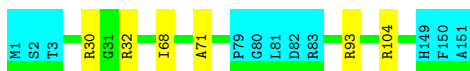
Chain X:  85% 7% 7%



4.2.7 Score per residue for model 7


- Molecule 1: Ribosome maturation factor RimP

Chain X:  89% • 7%



4.2.8 Score per residue for model 8


- Molecule 1: Ribosome maturation factor RimP

Chain X:  89% 7%



4.2.9 Score per residue for model 9


- Molecule 1: Ribosome maturation factor RimP

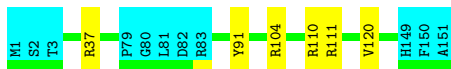
Chain X:  89% 7%



4.2.10 Score per residue for model 10 (medoid)


- Molecule 1: Ribosome maturation factor RimP

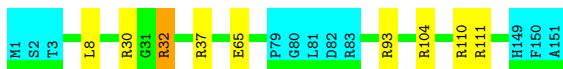
Chain X:  89% 7%



4.2.11 Score per residue for model 11


- Molecule 1: Ribosome maturation factor RimP

Chain X:  87% 5% 7%



4.2.12 Score per residue for model 12


- Molecule 1: Ribosome maturation factor RimP

Chain X:  88% 5% 7%



4.2.13 Score per residue for model 13


- Molecule 1: Ribosome maturation factor RimP

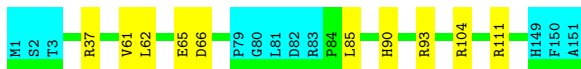
Chain X:  88% 5% 7%



4.2.14 Score per residue for model 14


- Molecule 1: Ribosome maturation factor RimP

Chain X:  86% 7% 7%



4.2.15 Score per residue for model 15


- Molecule 1: Ribosome maturation factor RimP

Chain X:  87% 6% 7%



4.2.16 Score per residue for model 16


- Molecule 1: Ribosome maturation factor RimP

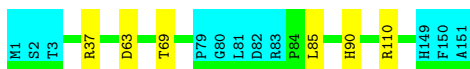
Chain X:  86% 7% 7%



4.2.17 Score per residue for model 17


- Molecule 1: Ribosome maturation factor RimP

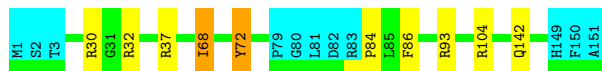
Chain X:  89% 7% 7%



4.2.18 Score per residue for model 18

- Molecule 1: Ribosome maturation factor RimP

Chain X:  86% 5% 7%



4.2.19 Score per residue for model 19


- Molecule 1: Ribosome maturation factor RimP

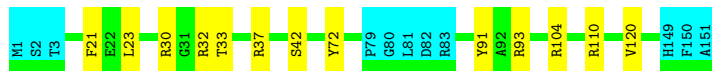
Chain X:  87% 6% 7%



4.2.20 Score per residue for model 20

- Molecule 1: Ribosome maturation factor RimP

Chain X:  84% 9% 7%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing, molecular dynamics*.

Of the 120 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
X-PLOR NIH	structure calculation	
GROMACS	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	1755
Number of shifts mapped to atoms	1755
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	87%

6 Model quality i

6.1 Standard geometry i

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	X	0.69±0.02	0±0/1105 (0.0± 0.0%)	0.98±0.04	5±2/1503 (0.3± 0.1%)
All	All	0.69	0/22100 (0.0%)	0.98	98/30060 (0.3%)

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

Mol	Chain	Chirality	Planarity
1	X	0.0±0.0	0.3±0.5
All	All	0	7

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	X	30	ARG	NE-CZ-NH2	10.45	125.52	120.30	11	13
1	X	93	ARG	NE-CZ-NH2	9.88	125.24	120.30	20	14
1	X	32	ARG	NE-CZ-NH2	9.59	125.10	120.30	15	8
1	X	110	ARG	NE-CZ-NH2	9.35	124.98	120.30	19	11
1	X	37	ARG	NE-CZ-NH2	8.73	124.66	120.30	16	17
1	X	104	ARG	NE-CZ-NH2	8.53	124.56	120.30	14	14
1	X	111	ARG	NE-CZ-NH2	7.29	123.94	120.30	10	10
1	X	111	ARG	NE-CZ-NH1	-6.66	116.97	120.30	5	1
1	X	72	TYR	CB-CG-CD2	-6.10	117.34	121.00	4	6
1	X	37	ARG	NE-CZ-NH1	-5.45	117.58	120.30	19	2
1	X	110	ARG	NE-CZ-NH1	-5.22	117.69	120.30	20	1
1	X	32	ARG	NE-CZ-NH1	-5.09	117.75	120.30	18	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	X	32	ARG	Peptide	3
1	X	72	TYR	Sidechain	1
1	X	111	ARG	Sidechain	1
1	X	108	GLN	Peptide	1
1	X	23	LEU	Peptide	1

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	X	1089	1092	1092	3±2
All	All	21780	21840	21840	54

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 1.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:X:66:ASP:OD1	1:X:68:ILE:O	1.10	1.66	6	1
1:X:68:ILE:HG23	1:X:71:ALA:HB3	1.08	1.23	7	1
1:X:68:ILE:CG2	1:X:71:ALA:HB3	1.01	1.86	7	2
1:X:68:ILE:CG2	1:X:71:ALA:CB	0.91	2.48	7	2
1:X:68:ILE:O	1:X:72:TYR:HB2	0.88	1.68	18	1
1:X:68:ILE:HG23	1:X:71:ALA:CB	0.88	1.98	7	1
1:X:61:VAL:O	1:X:65:GLU:HG2	0.87	1.69	14	1
1:X:68:ILE:HG22	1:X:71:ALA:HB3	0.76	1.57	15	1
1:X:69:THR:HG22	1:X:70:VAL:H	0.72	1.43	1	1
1:X:90:HIS:ND1	1:X:93:ARG:NH1	0.71	2.38	16	1
1:X:68:ILE:HD12	1:X:71:ALA:HB3	0.70	1.61	3	1
1:X:68:ILE:O	1:X:68:ILE:HG23	0.69	1.86	16	1
1:X:90:HIS:CE1	1:X:93:ARG:NH1	0.68	2.62	16	1
1:X:68:ILE:O	1:X:72:TYR:HD2	0.65	1.73	15	1
1:X:69:THR:HG22	1:X:70:VAL:N	0.64	2.08	1	1
1:X:68:ILE:HG21	1:X:71:ALA:CB	0.63	2.21	7	1
1:X:68:ILE:O	1:X:68:ILE:HG13	0.60	1.96	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:X:68:ILE:HG22	1:X:71:ALA:CB	0.60	2.24	15	1
1:X:104:ARG:HG2	1:X:142:GLN:HB2	0.60	1.72	18	1
1:X:90:HIS:CE1	1:X:93:ARG:HH12	0.59	2.15	16	1
1:X:68:ILE:HG21	1:X:71:ALA:HB2	0.58	1.75	7	1
1:X:91:TYR:HB3	1:X:120:VAL:HG21	0.56	1.75	10	3
1:X:68:ILE:CG1	1:X:71:ALA:HB3	0.56	2.31	16	1
1:X:68:ILE:CG2	1:X:70:VAL:CG1	0.54	2.85	6	1
1:X:63:ASP:O	1:X:69:THR:HG22	0.52	2.04	17	1
1:X:68:ILE:CG2	1:X:71:ALA:HB2	0.52	2.31	7	1
1:X:68:ILE:O	1:X:72:TYR:CD2	0.51	2.60	15	1
1:X:69:THR:HG23	1:X:72:TYR:HB2	0.51	1.82	2	1
1:X:68:ILE:HG12	1:X:71:ALA:CB	0.50	2.36	12	1
1:X:67:PRO:HB2	1:X:68:ILE:HD12	0.50	1.84	13	1
1:X:68:ILE:O	1:X:72:TYR:CB	0.49	2.54	18	1
1:X:68:ILE:O	1:X:68:ILE:CG2	0.49	2.58	16	1
1:X:68:ILE:HG13	1:X:71:ALA:HB3	0.46	1.86	16	1
1:X:120:VAL:HG22	1:X:125:ILE:HG23	0.46	1.88	9	1
1:X:68:ILE:HG23	1:X:68:ILE:O	0.46	2.10	7	1
1:X:68:ILE:HG22	1:X:68:ILE:O	0.46	2.11	15	1
1:X:125:ILE:CD1	1:X:138:LEU:HD23	0.45	2.41	6	1
1:X:68:ILE:HG22	1:X:71:ALA:H	0.45	1.71	13	2
1:X:62:LEU:HD12	1:X:66:ASP:OD1	0.45	2.11	14	1
1:X:68:ILE:CG2	1:X:70:VAL:HG13	0.45	2.42	6	1
1:X:68:ILE:HD11	1:X:72:TYR:CE1	0.44	2.46	3	1
1:X:85:LEU:HD11	1:X:90:HIS:HB3	0.44	1.88	14	2
1:X:21:PHE:CD1	1:X:42:SER:HB3	0.43	2.49	20	1
1:X:61:VAL:O	1:X:65:GLU:CG	0.42	2.58	14	1
1:X:62:LEU:CD1	1:X:66:ASP:OD1	0.42	2.67	14	1
1:X:68:ILE:CG2	1:X:70:VAL:HG12	0.42	2.45	6	1
1:X:84:PRO:HG2	1:X:86:PHE:CE1	0.42	2.50	18	1
1:X:8:LEU:HD13	1:X:65:GLU:HG2	0.41	1.93	11	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	X	140/151 (93%)	137±1 (98±1%)	3±1 (2±1%)	0±0 (0±0%)	100	100
All	All	2800/3020 (93%)	2738 (98%)	62 (2%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	X	121/130 (93%)	120±1 (100±1%)	1±1 (0±1%)	89	97
All	All	2420/2600 (93%)	2409 (100%)	11 (0%)	89	97

All 8 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	X	90	HIS	2
1	X	91	TYR	2
1	X	72	TYR	2
1	X	127	VAL	1
1	X	64	VAL	1
1	X	69	THR	1
1	X	68	ILE	1
1	X	33	THR	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 87% for the well-defined parts and 85% 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 [i](#)

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	1755
Number of shifts mapped to atoms	1755
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 [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	148	-0.03 ± 0.18	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	139	0.11 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}'$	147	0.27 ± 0.14	None needed (< 0.5 ppm)
^{15}N	138	-0.01 ± 0.24	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 87%, i.e. 1671 atoms were assigned a chemical shift out of a possible 1910. 0 out of 31 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	689/700 (98%)	279/284 (98%)	279/280 (100%)	131/136 (96%)
Sidechain	972/1107 (88%)	655/724 (90%)	310/347 (89%)	7/36 (19%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	10/103 (10%)	10/51 (20%)	0/49 (0%)	0/3 (0%)
Overall	1671/1910 (87%)	944/1059 (89%)	589/676 (87%)	138/175 (79%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 85%, i.e. 1755 atoms were assigned a chemical shift out of a possible 2054. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	728/754 (97%)	295/306 (96%)	295/302 (98%)	138/146 (95%)
Sidechain	1015/1180 (86%)	684/772 (89%)	324/369 (88%)	7/39 (18%)
Aromatic	12/120 (10%)	12/60 (20%)	0/56 (0%)	0/4 (0%)
Overall	1755/2054 (85%)	991/1138 (87%)	619/727 (85%)	145/189 (77%)

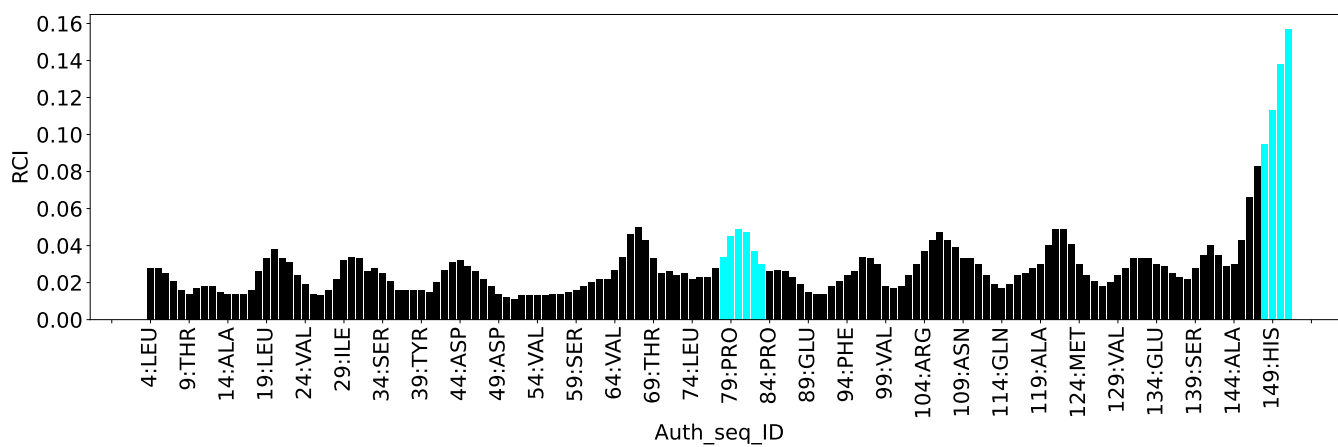
7.1.4 Statistically unusual chemical shifts [i](#)

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 X:



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	2559
Intra-residue ($ i-j =0$)	752
Sequential ($ i-j =1$)	876
Medium range ($ i-j >1$ and $ i-j <5$)	396
Long range ($ i-j \geq 5$)	395
Inter-chain	0
Hydrogen bond restraints	140
Disulfide bond restraints	0
Total dihedral-angle restraints	264
Number of unmapped restraints	0
Number of restraints per residue	18.7
Number of long range restraints per residue ¹	3.1

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	45.0	0.2
0.2-0.5 (Medium)	59.5	0.5
>0.5 (Large)	31.6	4.78

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

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	31.6	9.9
10.0-20.0 (Medium)	4.6	19.9
>20.0 (Large)	6.7	159.9

9 Distance violation analysis [i](#)

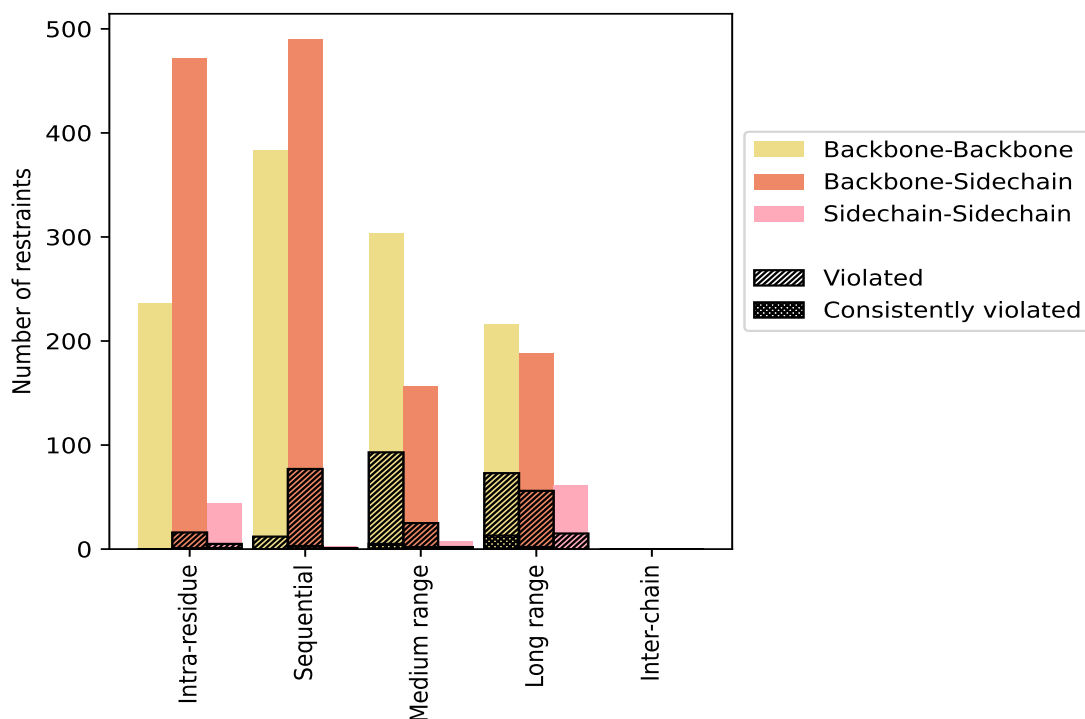
9.1 Summary of distance violations [i](#)

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.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	752	29.4	21	2.8	0.8	2	0.3	0.1
Backbone-Backbone	236	9.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	472	18.4	16	3.4	0.6	1	0.2	0.0
Sidechain-Sidechain	44	1.7	5	11.4	0.2	1	2.3	0.0
Sequential ($i-j =1$)	876	34.2	90	10.3	3.5	3	0.3	0.1
Backbone-Backbone	383	15.0	12	3.1	0.5	0	0.0	0.0
Backbone-Sidechain	490	19.1	77	15.7	3.0	3	0.6	0.1
Sidechain-Sidechain	3	0.1	1	33.3	0.0	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	396	15.5	86	21.7	3.4	5	1.3	0.2
Backbone-Backbone	233	9.1	59	25.3	2.3	3	1.3	0.1
Backbone-Sidechain	156	6.1	25	16.0	1.0	2	1.3	0.1
Sidechain-Sidechain	7	0.3	2	28.6	0.1	0	0.0	0.0
Long range ($i-j \geq 5$)	395	15.4	125	31.6	4.9	9	2.3	0.4
Backbone-Backbone	146	5.7	54	37.0	2.1	7	4.8	0.3
Backbone-Sidechain	188	7.3	56	29.8	2.2	2	1.1	0.1
Sidechain-Sidechain	61	2.4	15	24.6	0.6	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	140	5.5	53	37.9	2.1	8	5.7	0.3
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2559	100.0	375	14.7	14.7	27	1.1	1.1
Backbone-Backbone	1138	44.5	178	15.6	7.0	18	1.6	0.7
Backbone-Sidechain	1306	51.0	174	13.3	6.8	8	0.6	0.3
Sidechain-Sidechain	115	4.5	23	20.0	0.9	1	0.9	0.0

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	10	29	54	56	0	149	0.43	2.46	0.36	0.32
2	11	27	57	54	0	149	0.41	2.1	0.31	0.31
3	8	27	45	56	0	136	0.38	1.51	0.29	0.28
4	8	28	53	53	0	142	0.35	2.26	0.28	0.24
5	10	26	43	77	0	156	0.4	1.85	0.3	0.3
6	9	29	35	51	0	124	0.36	2.38	0.32	0.29
7	6	22	41	48	0	117	0.41	1.61	0.31	0.3
8	9	20	45	36	0	110	0.37	1.62	0.27	0.29
9	10	30	49	52	0	141	0.42	1.74	0.33	0.33
10	9	27	62	51	0	149	0.42	2.27	0.37	0.3
11	6	30	50	54	0	140	0.45	4.78	0.57	0.26

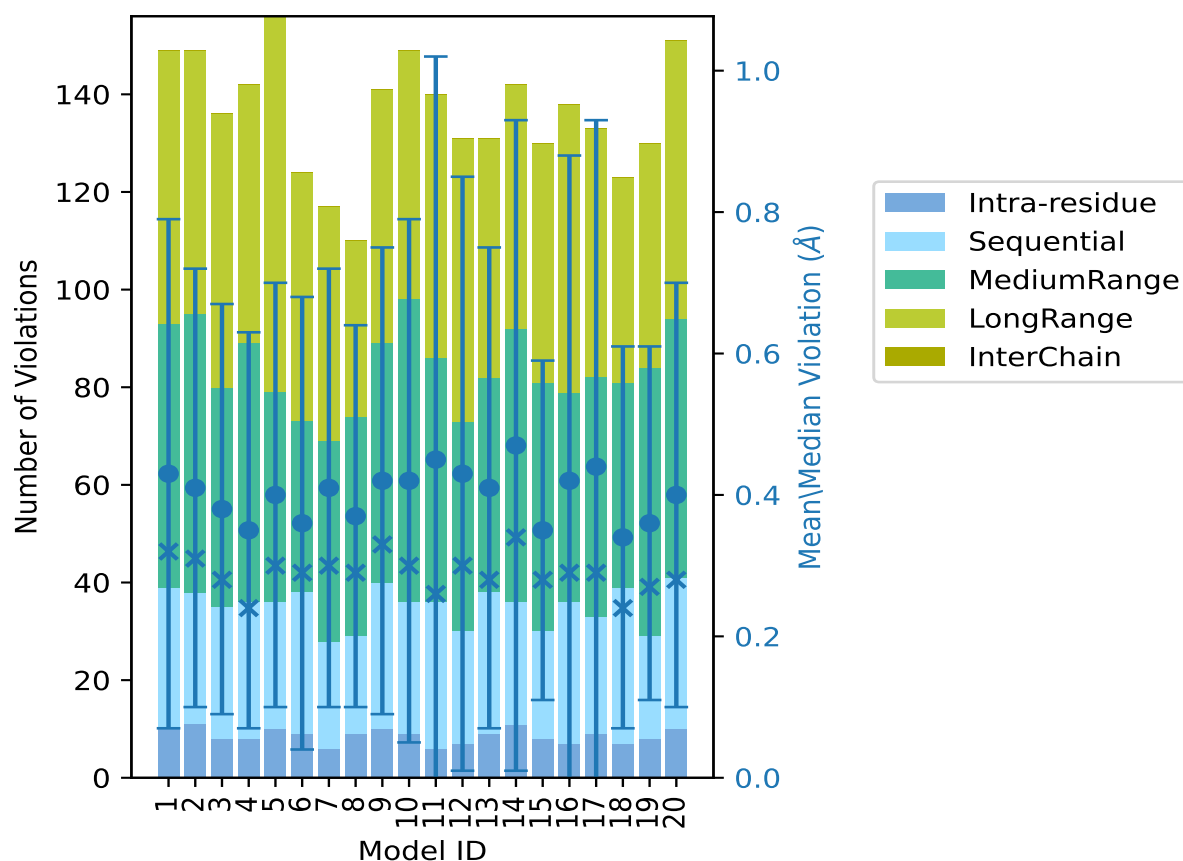
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
12	7	23	43	58	0	131	0.43	2.76	0.42	0.3
13	9	29	44	49	0	131	0.41	2.27	0.34	0.28
14	11	25	56	50	0	142	0.47	3.02	0.46	0.34
15	8	22	51	49	0	130	0.35	1.3	0.24	0.28
16	7	29	43	59	0	138	0.42	3.13	0.46	0.29
17	9	24	49	51	0	133	0.44	3.3	0.49	0.29
18	7	32	42	42	0	123	0.34	1.58	0.27	0.24
19	8	21	55	46	0	130	0.36	1.63	0.25	0.27
20	10	31	53	57	0	151	0.4	1.77	0.3	0.28

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

9.2.1 Bar graph : Distance Violation statistics for each model [\(i\)](#)



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

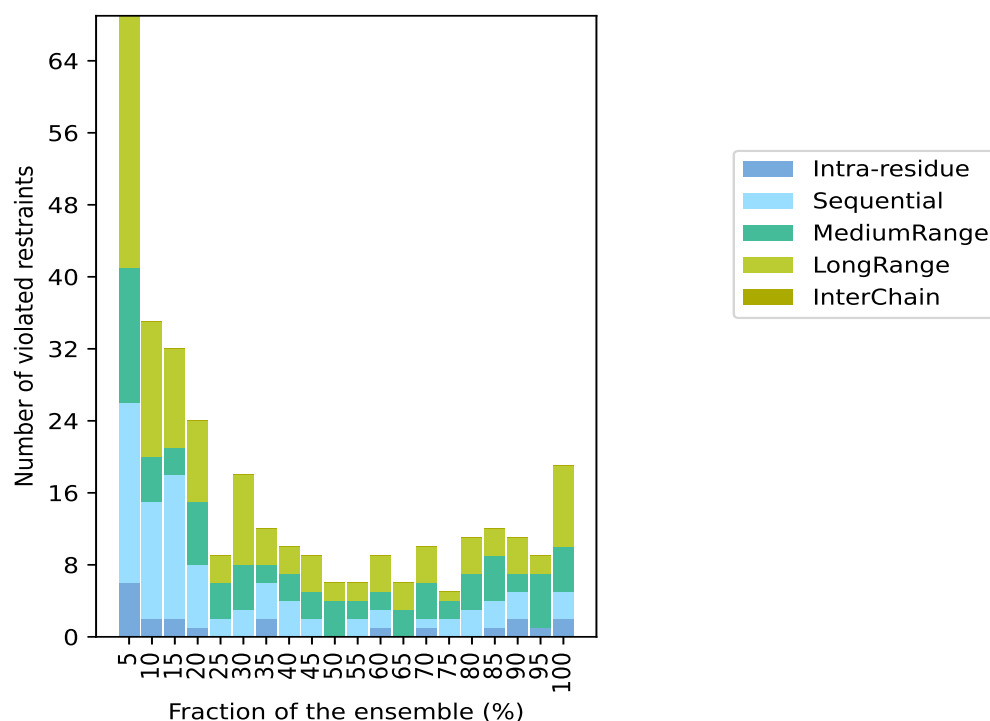
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2097(IR:731, SQ:786, MR:310, LR:270, 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	%
6	20	15	28	0	69	1	5.0
2	13	5	15	0	35	2	10.0
2	16	3	11	0	32	3	15.0
1	7	7	9	0	24	4	20.0
0	2	4	3	0	9	5	25.0
0	3	5	10	0	18	6	30.0
2	4	2	4	0	12	7	35.0
0	4	3	3	0	10	8	40.0
0	2	3	4	0	9	9	45.0
0	0	4	2	0	6	10	50.0
0	2	2	2	0	6	11	55.0
1	2	2	4	0	9	12	60.0
0	0	3	3	0	6	13	65.0
1	1	4	4	0	10	14	70.0
0	2	2	1	0	5	15	75.0
0	3	4	4	0	11	16	80.0
1	3	5	3	0	12	17	85.0
2	3	2	4	0	11	18	90.0
1	0	6	2	0	9	19	95.0
2	3	5	9	0	19	20	100.0

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

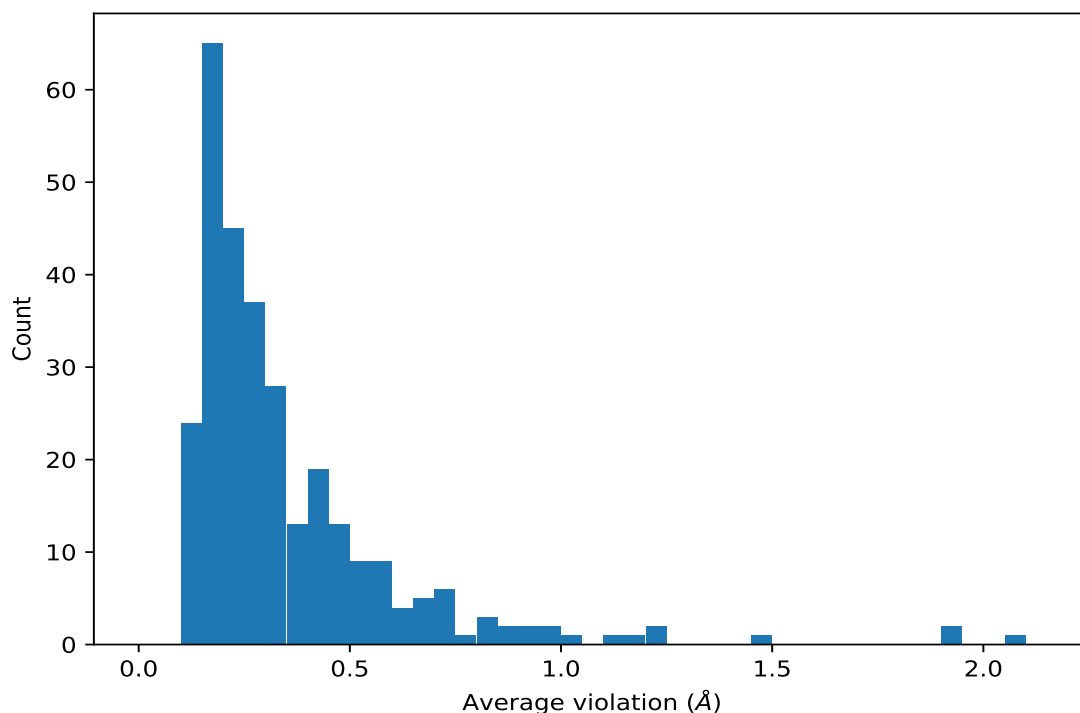
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	20	1.49	0.66	1.6
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	20	1.2	0.14	1.21
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	20	1.16	0.16	1.15
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	20	1.12	0.66	0.76
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	20	1.0	0.2	0.96
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	20	0.93	0.48	0.98
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	20	0.81	0.52	0.49
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	20	0.8	0.3	0.88
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	20	0.75	0.22	0.71
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	20	0.7	0.17	0.66
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	20	0.7	0.39	0.62
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	20	0.67	0.2	0.62
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	20	0.66	0.11	0.64
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	20	0.62	0.2	0.66
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	20	0.62	0.09	0.62
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	20	0.57	0.18	0.57

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	20	0.56	0.21	0.55
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	20	0.51	0.11	0.48
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	20	0.51	0.16	0.56
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	20	0.44	0.01	0.45
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	20	0.42	0.2	0.44
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	20	0.41	0.18	0.38
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	20	0.41	0.1	0.4
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	20	0.31	0.0	0.31
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	20	0.3	0.13	0.28
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	20	0.24	0.16	0.21
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	20	0.22	0.16	0.2
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	19	0.57	0.25	0.6
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	19	0.43	0.02	0.43
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	19	0.38	0.15	0.37
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	19	0.35	0.12	0.35
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	19	0.32	0.11	0.31
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	19	0.31	0.11	0.29
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	19	0.27	0.12	0.23
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	19	0.26	0.1	0.26
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	19	0.24	0.08	0.23
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	18	1.21	1.33	0.57
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	18	0.48	0.11	0.49
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	18	0.43	0.02	0.43
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	18	0.42	0.01	0.42
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	18	0.41	0.19	0.44
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	18	0.4	0.15	0.38
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	18	0.39	0.12	0.41
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	18	0.32	0.19	0.26
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	18	0.3	0.12	0.3
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	18	0.3	0.12	0.27
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	18	0.21	0.06	0.2
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	18	0.2	0.05	0.18
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	17	0.85	0.32	0.88
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	17	0.67	0.37	0.6
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	17	0.58	0.39	0.48
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	17	0.53	0.41	0.34
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	17	0.52	0.12	0.53
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	17	0.5	0.26	0.44
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	17	0.27	0.1	0.25
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	17	0.27	0.12	0.24
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	17	0.26	0.12	0.24
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	17	0.22	0.08	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	17	0.22	0.07	0.23
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	17	0.2	0.05	0.18
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	16	0.64	0.15	0.66
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	16	0.6	0.48	0.48
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	16	0.58	0.33	0.49
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	16	0.55	0.36	0.38
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	16	0.47	0.36	0.32
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	16	0.42	0.2	0.36
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	16	0.37	0.17	0.33
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	16	0.36	0.16	0.32
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	16	0.3	0.15	0.28
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	16	0.26	0.07	0.25
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	16	0.21	0.09	0.19
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	15	0.3	0.15	0.28
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	15	0.22	0.06	0.19
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	15	0.17	0.04	0.17
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	15	0.16	0.03	0.16
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	15	0.15	0.03	0.15
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	14	0.49	0.2	0.56
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	14	0.42	0.23	0.42
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	14	0.29	0.15	0.26
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	14	0.27	0.09	0.26
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	14	0.26	0.1	0.28
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	14	0.22	0.07	0.22
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	14	0.2	0.05	0.19
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	14	0.18	0.05	0.18
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	14	0.17	0.04	0.16
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	14	0.16	0.03	0.16
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	13	0.53	0.36	0.37
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	13	0.42	0.21	0.42
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	13	0.41	0.28	0.34
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	13	0.39	0.15	0.4
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	13	0.34	0.09	0.34
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	13	0.31	0.14	0.29
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	13	0.19	0.06	0.17
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	12	0.46	0.36	0.32
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	12	0.43	0.26	0.4
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	12	0.38	0.24	0.28
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	12	0.33	0.13	0.32
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	12	0.31	0.08	0.29
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	12	0.25	0.05	0.25
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	12	0.23	0.07	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	12	0.22	0.1	0.2
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	12	0.2	0.07	0.2
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	12	0.19	0.09	0.16
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	12	0.11	0.0	0.11
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	11	0.27	0.12	0.3
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	11	0.25	0.13	0.19
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	11	0.23	0.09	0.2
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	11	0.19	0.07	0.19
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	11	0.18	0.05	0.18
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	11	0.12	0.0	0.12
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	10	0.33	0.12	0.32
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	10	0.3	0.13	0.24
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	10	0.26	0.04	0.26
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	10	0.26	0.12	0.23
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	10	0.25	0.14	0.2
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	10	0.24	0.15	0.18
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	10	0.16	0.04	0.16
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	9	0.87	0.42	0.77
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	9	0.5	0.38	0.31
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	9	0.46	0.14	0.55
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	9	0.36	0.21	0.31
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	9	0.32	0.11	0.33
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	9	0.27	0.12	0.24
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	9	0.22	0.1	0.22
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	9	0.21	0.07	0.2
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	9	0.19	0.06	0.18
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	9	0.14	0.02	0.14
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	8	0.99	0.13	1.0
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	8	0.72	0.59	0.41
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	8	0.49	0.09	0.51
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	8	0.34	0.11	0.32
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	8	0.29	0.11	0.24
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	8	0.27	0.07	0.29
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	8	0.27	0.14	0.24
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	8	0.25	0.1	0.22
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	8	0.22	0.06	0.22
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	8	0.2	0.07	0.18
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	8	0.19	0.03	0.18
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	8	0.17	0.05	0.16
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	8	0.17	0.05	0.16
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	8	0.16	0.04	0.15
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	7	1.92	1.25	2.72

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	7	1.92	1.25	2.72
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	7	0.94	0.86	0.29
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	7	0.81	0.87	0.31
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	7	0.47	0.11	0.51
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	7	0.42	0.02	0.43
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	7	0.42	0.02	0.42
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	7	0.28	0.11	0.22
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	7	0.2	0.03	0.2
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	7	0.19	0.04	0.17
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	7	0.18	0.06	0.16
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	7	0.17	0.04	0.17
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	7	0.14	0.03	0.12
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	6	0.46	0.21	0.44
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	6	0.35	0.12	0.34
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	6	0.35	0.2	0.29
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	6	0.34	0.29	0.25
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	6	0.33	0.23	0.24
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	6	0.28	0.12	0.26
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	6	0.26	0.08	0.28
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	6	0.23	0.09	0.2
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	6	0.22	0.1	0.16
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	6	0.21	0.07	0.2
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	6	0.2	0.09	0.17
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	6	0.19	0.05	0.2
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	6	0.19	0.08	0.16
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	6	0.18	0.08	0.16
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	6	0.17	0.05	0.15
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	6	0.16	0.03	0.15
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	6	0.15	0.03	0.16
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	6	0.15	0.04	0.14
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	6	0.13	0.01	0.13
(3,587)	1:X:91:TYR:N	1:X:85:LEU:CD1	5	0.58	0.31	0.79
(5,58)	1:X:121:ASP:C	1:X:124:MET:H	5	0.5	0.06	0.5
(5,3)	1:X:6:GLN:C	1:X:10:GLU:H	5	0.39	0.25	0.37
(1,836)	1:X:99:VAL:H	1:X:117:ILE:HG12	5	0.35	0.07	0.4
(5,2)	1:X:5:GLU:C	1:X:9:THR:H	5	0.29	0.2	0.21
(4,65)	1:X:56:HIS:O	1:X:60:ALA:H	5	0.23	0.12	0.17
(1,248)	1:X:37:ARG:H	1:X:36:LEU:HB3	5	0.2	0.08	0.23
(4,67)	1:X:57:GLN:O	1:X:61:VAL:H	5	0.2	0.08	0.19
(5,63)	1:X:128:THR:C	1:X:116:VAL:H	5	0.18	0.06	0.14
(3,556)	1:X:87:THR:N	1:X:86:PHE:CB	5	0.18	0.03	0.19
(1,51)	1:X:10:GLU:H	1:X:7:LYS:HA	5	0.17	0.03	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(4,21)	1:X:15:PRO:O	1:X:19:LEU:H	5	0.16	0.03	0.15
(3,448)	1:X:65:GLU:N	1:X:11:MET:CE	4	2.07	0.61	1.8
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG21	4	0.74	0.25	0.75
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG22	4	0.74	0.25	0.75
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG23	4	0.74	0.25	0.75
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD1	4	0.45	0.21	0.5
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD2	4	0.45	0.21	0.5
(2,28)	1:X:29:ILE:CG2	1:X:29:ILE:CD1	4	0.43	0.01	0.43
(1,925)	1:X:108:GLN:HB2	1:X:109:ASN:H	4	0.34	0.09	0.31
(2,86)	1:X:91:TYR:CA	1:X:117:ILE:CD1	4	0.32	0.08	0.34
(2,107)	1:X:120:VAL:CG2	1:X:125:ILE:CD1	4	0.26	0.09	0.29
(1,1190)	1:X:141:ILE:HG13	1:X:137:ALA:H	4	0.24	0.05	0.25
(1,640)	1:X:74:LEU:HD21	1:X:39:TYR:H	4	0.24	0.09	0.22
(1,640)	1:X:74:LEU:HD22	1:X:39:TYR:H	4	0.24	0.09	0.22
(1,640)	1:X:74:LEU:HD23	1:X:39:TYR:H	4	0.24	0.09	0.22
(1,453)	1:X:56:HIS:HB3	1:X:55:SER:H	4	0.22	0.05	0.22
(1,5)	1:X:5:GLU:H	1:X:4:LEU:HG	4	0.2	0.04	0.2
(4,68)	1:X:57:GLN:O	1:X:61:VAL:N	4	0.2	0.08	0.18
(5,67)	1:X:136:PHE:C	1:X:125:ILE:H	4	0.19	0.04	0.2
(1,575)	1:X:65:GLU:HB2	1:X:64:VAL:H	4	0.18	0.05	0.18
(3,554)	1:X:85:LEU:CA	1:X:87:THR:N	4	0.18	0.03	0.18
(5,24)	1:X:47:ASN:C	1:X:50:ASP:H	4	0.18	0.07	0.14
(5,9)	1:X:13:THR:C	1:X:17:GLU:H	4	0.17	0.03	0.18
(3,666)	1:X:94:PHE:N	1:X:117:ILE:CG2	4	0.17	0.04	0.18
(2,121)	1:X:138:LEU:CD1	1:X:141:ILE:CD1	4	0.16	0.02	0.16
(1,96)	1:X:19:LEU:H	1:X:16:VAL:HA	4	0.16	0.03	0.16
(1,1007)	1:X:122:GLY:H	1:X:124:MET:H	4	0.16	0.01	0.15
(3,749)	1:X:113:TRP:N	1:X:101:LEU:CD1	4	0.16	0.03	0.16
(5,56)	1:X:116:VAL:C	1:X:128:THR:H	4	0.16	0.03	0.16
(1,204)	1:X:33:THR:H	1:X:32:ARG:HG2	4	0.15	0.02	0.16
(3,189)	1:X:34:SER:N	1:X:33:THR:CB	4	0.13	0.01	0.13
(1,915)	1:X:108:GLN:HE21	1:X:107:VAL:CB	3	0.96	0.08	0.99
(2,85)	1:X:85:LEU:CD2	1:X:117:ILE:CD1	3	0.66	0.15	0.7
(1,1034)	1:X:125:ILE:H	1:X:124:MET:HB3	3	0.57	0.02	0.57
(3,145)	1:X:27:GLU:N	1:X:26:ILE:CD1	3	0.56	0.31	0.73
(5,15)	1:X:29:ILE:C	1:X:35:THR:H	3	0.47	0.05	0.44
(3,479)	1:X:70:VAL:CG1	1:X:70:VAL:N	3	0.46	0.0	0.46
(1,610)	1:X:71:ALA:H	1:X:70:VAL:CB	3	0.45	0.09	0.4
(1,193)	1:X:31:GLY:H	1:X:30:ARG:HG3	3	0.4	0.07	0.38
(3,464)	1:X:66:ASP:N	1:X:64:VAL:CG1	3	0.37	0.1	0.41
(1,221)	1:X:35:THR:H	1:X:34:SER:HB3	3	0.3	0.06	0.26
(1,773)	1:X:94:PHE:HB3	1:X:97:GLU:H	3	0.28	0.07	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(5,49)	1:X:97:GLU:C	1:X:117:ILE:H	3	0.27	0.21	0.14
(4,54)	1:X:50:ASP:O	1:X:54:VAL:H	3	0.26	0.09	0.27
(3,765)	1:X:115:GLY:N	1:X:129:VAL:CG2	3	0.26	0.08	0.29
(1,595)	1:X:66:ASP:HB2	1:X:72:TYR:H	3	0.25	0.12	0.18
(3,823)	1:X:124:MET:CB	1:X:125:ILE:N	3	0.24	0.0	0.24
(3,159)	1:X:29:ILE:N	1:X:28:PHE:CB	3	0.21	0.06	0.23
(3,484)	1:X:71:ALA:N	1:X:70:VAL:CB	3	0.2	0.07	0.16
(1,315)	1:X:44:ASP:H	1:X:43:GLU:HG2	3	0.19	0.05	0.17
(4,1)	1:X:4:LEU:O	1:X:8:LEU:H	3	0.19	0.08	0.15
(1,658)	1:X:76:VAL:HB	1:X:55:SER:H	3	0.18	0.05	0.16
(4,47)	1:X:47:ASN:O	1:X:50:ASP:H	3	0.17	0.04	0.17
(3,878)	1:X:133:ASP:N	1:X:128:THR:CG2	3	0.17	0.05	0.16
(3,197)	1:X:35:THR:N	1:X:34:SER:CB	3	0.16	0.02	0.15
(3,716)	1:X:104:ARG:N	1:X:105:MET:CB	3	0.16	0.03	0.17
(1,1191)	1:X:141:ILE:H	1:X:138:LEU:HA	3	0.15	0.01	0.15
(5,23)	1:X:41:ASP:C	1:X:23:LEU:H	3	0.15	0.04	0.15
(4,88)	1:X:89:GLU:O	1:X:93:ARG:N	3	0.15	0.04	0.14
(5,62)	1:X:127:VAL:C	1:X:134:GLU:H	3	0.15	0.01	0.15
(5,46)	1:X:115:GLY:C	1:X:99:VAL:H	3	0.14	0.02	0.15
(1,241)	1:X:37:ARG:H	1:X:27:GLU:HB2	3	0.14	0.02	0.13
(3,208)	1:X:36:LEU:N	1:X:37:ARG:CG	3	0.14	0.01	0.13
(3,566)	1:X:88:ALA:N	1:X:89:GLU:CB	3	0.12	0.0	0.12
(3,92)	1:X:19:LEU:N	1:X:18:ALA:CB	3	0.12	0.01	0.12
(3,366)	1:X:56:HIS:N	1:X:57:GLN:CB	3	0.12	0.0	0.12
(1,566)	1:X:64:VAL:HB	1:X:64:VAL:H	3	0.11	0.0	0.11
(3,425)	1:X:62:LEU:N	1:X:61:VAL:CG2	2	0.68	0.56	0.68
(1,506)	1:X:59:SER:HB2	1:X:60:ALA:H	2	0.52	0.04	0.52
(1,701)	1:X:81:LEU:H	1:X:82:ASP:H	2	0.44	0.04	0.44
(1,227)	1:X:35:THR:HG21	1:X:75:GLU:H	2	0.34	0.01	0.34
(1,227)	1:X:35:THR:HG22	1:X:75:GLU:H	2	0.34	0.01	0.34
(1,227)	1:X:35:THR:HG23	1:X:75:GLU:H	2	0.34	0.01	0.34
(4,66)	1:X:56:HIS:O	1:X:60:ALA:N	2	0.3	0.05	0.3
(3,313)	1:X:52:ALA:N	1:X:40:ILE:CD1	2	0.3	0.1	0.3
(4,75)	1:X:71:ALA:O	1:X:34:SER:H	2	0.3	0.02	0.3
(1,175)	1:X:29:ILE:HB	1:X:35:THR:H	2	0.29	0.02	0.29
(4,53)	1:X:50:ASP:O	1:X:54:VAL:N	2	0.29	0.01	0.29
(1,218)	1:X:34:SER:H	1:X:73:ASN:H	2	0.29	0.18	0.29
(3,203)	1:X:36:LEU:N	1:X:35:THR:CG2	2	0.27	0.07	0.27
(1,1043)	1:X:125:ILE:H	1:X:136:PHE:H	2	0.26	0.01	0.26
(3,212)	1:X:37:ARG:N	1:X:27:GLU:CB	2	0.26	0.11	0.26
(1,864)	1:X:101:LEU:H	1:X:114:GLN:HB2	2	0.25	0.09	0.25
(1,351)	1:X:47:ASN:H	1:X:46:ILE:HG13	2	0.22	0.01	0.22

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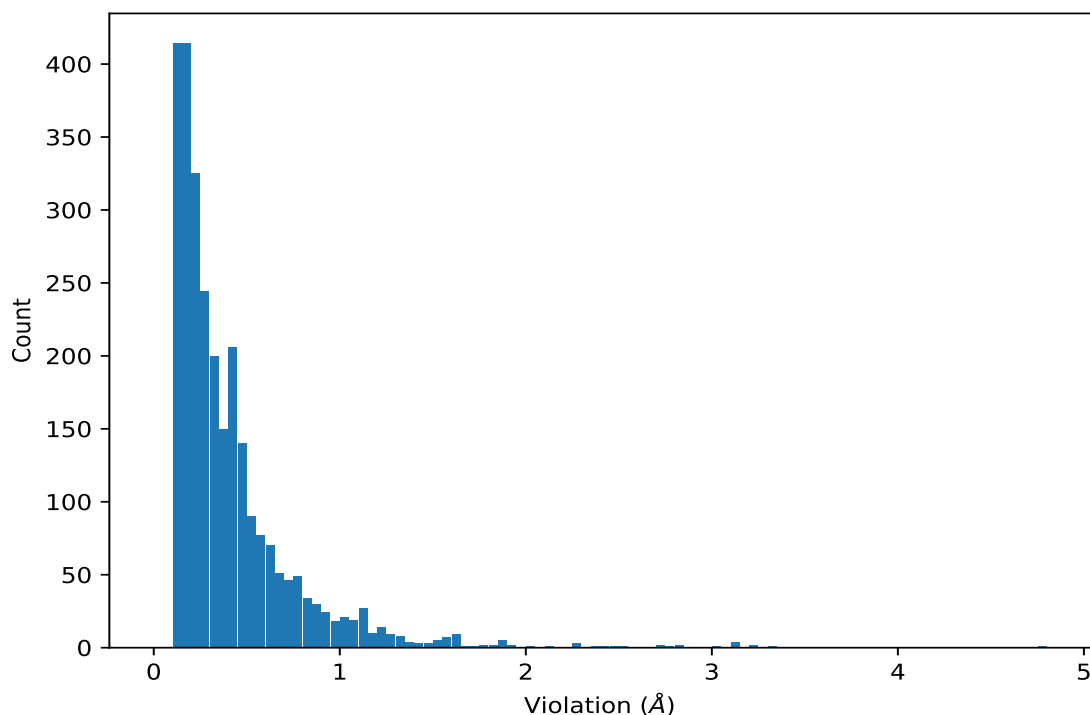
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,661)	1:X:91:TYR:N	1:X:120:VAL:CG1	2	0.22	0.01	0.22
(4,2)	1:X:4:LEU:O	1:X:8:LEU:N	2	0.21	0.08	0.21
(4,76)	1:X:71:ALA:O	1:X:34:SER:N	2	0.21	0.08	0.21
(1,420)	1:X:54:VAL:H	1:X:51:CYS:HA	2	0.2	0.03	0.2
(3,847)	1:X:128:THR:CB	1:X:116:VAL:N	2	0.2	0.02	0.2
(1,1135)	1:X:134:GLU:H	1:X:127:VAL:H	2	0.18	0.02	0.18
(3,371)	1:X:57:GLN:N	1:X:54:VAL:CG2	2	0.18	0.06	0.18
(1,685)	1:X:78:SER:HB2	1:X:78:SER:H	2	0.17	0.0	0.17
(5,19)	1:X:36:LEU:C	1:X:75:GLU:H	2	0.17	0.0	0.17
(4,71)	1:X:59:SER:O	1:X:63:ASP:H	2	0.16	0.04	0.16
(1,146)	1:X:25:GLY:H	1:X:39:TYR:HB2	2	0.16	0.04	0.16
(1,179)	1:X:29:ILE:H	1:X:36:LEU:H	2	0.16	0.04	0.16
(4,115)	1:X:121:ASP:O	1:X:124:MET:H	2	0.16	0.05	0.16
(5,40)	1:X:75:GLU:C	1:X:38:ILE:H	2	0.16	0.05	0.16
(1,531)	1:X:62:LEU:HB2	1:X:61:VAL:H	2	0.15	0.02	0.15
(1,931)	1:X:109:ASN:HD21	1:X:109:ASN:HB3	2	0.15	0.02	0.15
(3,124)	1:X:24:VAL:N	1:X:23:LEU:CD1	2	0.15	0.0	0.15
(1,1018)	1:X:123:GLU:H	1:X:124:MET:HB2	2	0.14	0.0	0.14
(5,6)	1:X:9:THR:C	1:X:13:THR:H	2	0.14	0.01	0.14
(1,392)	1:X:50:ASP:HA	1:X:53:ASP:H	2	0.14	0.02	0.14
(3,239)	1:X:41:ASP:N	1:X:16:VAL:CG1	2	0.14	0.02	0.14
(3,534)	1:X:80:GLY:N	1:X:79:PRO:CB	2	0.14	0.01	0.14
(1,609)	1:X:71:ALA:H	1:X:70:VAL:HA	2	0.12	0.01	0.12
(1,532)	1:X:62:LEU:H	1:X:61:VAL:CB	2	0.12	0.0	0.12
(1,598)	1:X:67:PRO:HA	1:X:68:ILE:H	2	0.12	0.0	0.12
(1,606)	1:X:69:THR:HA	1:X:70:VAL:H	2	0.12	0.0	0.12
(4,117)	1:X:124:MET:O	1:X:121:ASP:H	2	0.12	0.0	0.12
(3,315)	1:X:52:ALA:N	1:X:48:VAL:CA	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	11	4.78
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	17	3.3
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	17	3.23
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	17	3.23
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	16	3.13
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	16	3.13
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	16	3.11
(3,448)	1:X:65:GLU:N	1:X:11:MET:CE	11	3.11
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	14	3.02
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	11	2.82
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	11	2.82
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	12	2.76
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	14	2.72
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	14	2.72
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	11	2.53
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	1	2.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	12	2.44
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	6	2.38
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	13	2.27
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	10	2.27
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	4	2.26
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	2	2.1
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	12	2.03
(3,448)	1:X:65:GLU:N	1:X:11:MET:CE	17	1.94
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	10	1.9
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	1	1.88
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	14	1.88
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	14	1.87
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	6	1.86
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	5	1.85
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	17	1.82
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	13	1.8
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	14	1.79
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	20	1.77
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	9	1.74
(3,448)	1:X:65:GLU:N	1:X:11:MET:CE	14	1.65
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	1	1.64
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	10	1.64
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	20	1.64
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	19	1.63
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	16	1.62
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	8	1.62
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	16	1.62
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	7	1.61
(3,448)	1:X:65:GLU:N	1:X:11:MET:CE	16	1.6
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	10	1.59
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	10	1.59
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	17	1.59
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	12	1.58
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	18	1.58
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	9	1.57
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	1	1.56
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	5	1.53
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	17	1.52
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	3	1.51
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	5	1.5
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	5	1.5
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	1	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	7	1.45
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	3	1.45
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	14	1.44
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	14	1.42
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	10	1.41
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	3	1.39
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	12	1.37
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	9	1.36
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	14	1.36
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	13	1.33
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	10	1.33
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	3	1.32
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	7	1.32
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	2	1.32
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	4	1.31
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	8	1.31
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	15	1.3
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	13	1.28
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	16	1.28
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	17	1.27
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	15	1.26
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	13	1.25
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	10	1.25
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	12	1.25
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	7	1.25
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	9	1.25
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	1	1.24
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	19	1.24
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	6	1.24
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	12	1.24
(3,425)	1:X:62:LEU:N	1:X:61:VAL:CG2	2	1.24
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	10	1.24
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	7	1.24
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	18	1.22
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	11	1.22
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	12	1.21
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	2	1.21
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	19	1.21
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	13	1.21
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	16	1.2
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	11	1.18
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	8	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	9	1.18
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	7	1.17
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	6	1.15
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	20	1.15
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	12	1.15
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	16	1.15
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	10	1.15
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	11	1.15
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	7	1.14
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	5	1.14
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	1	1.14
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	14	1.14
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	3	1.14
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	16	1.13
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	11	1.13
(1,939)	1:X:109:ASN:H	1:X:110:ARG:H	9	1.13
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	14	1.13
(1,1188)	1:X:141:ILE:CG2	1:X:102:VAL:H	5	1.13
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	3	1.12
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	17	1.12
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	9	1.12
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	9	1.12
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	16	1.11
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	20	1.11
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	16	1.11
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	20	1.11
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	10	1.11
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	20	1.11
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	18	1.11
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	2	1.1
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	11	1.1
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	14	1.1
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	17	1.1
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	20	1.1
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	7	1.1
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	6	1.09
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	19	1.09
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	3	1.09
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	7	1.08
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	18	1.08
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	2	1.08
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	1	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	1	1.07
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	15	1.07
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	12	1.07
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	9	1.07
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	20	1.06
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	13	1.06
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	8	1.06
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	14	1.05
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	3	1.05
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG21	1	1.05
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG22	1	1.05
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG23	1	1.05
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	19	1.04
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	19	1.04
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	14	1.04
(1,915)	1:X:108:GLN:HE21	1:X:107:VAL:CB	11	1.04
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	4	1.03
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	5	1.03
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	18	1.03
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	18	1.03
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	17	1.03
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	16	1.02
(1,906)	1:X:106:ALA:HB1	1:X:110:ARG:H	9	1.02
(1,906)	1:X:106:ALA:HB2	1:X:110:ARG:H	9	1.02
(1,906)	1:X:106:ALA:HB3	1:X:110:ARG:H	9	1.02
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	13	1.01
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	2	1.01
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	2	1.01
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	18	1.01
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	12	1.0
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	10	1.0
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	17	1.0
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	2	1.0
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	2	0.99
(1,915)	1:X:108:GLN:HE21	1:X:107:VAL:CB	13	0.99
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	8	0.98
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	6	0.98
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	14	0.98
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	7	0.98
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	12	0.98
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	16	0.98
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	13	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	8	0.97
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	5	0.96
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	5	0.96
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	2	0.96
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	1	0.96
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	2	0.96
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	8	0.96
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	11	0.96
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	9	0.95
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	15	0.94
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	13	0.93
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	9	0.93
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	13	0.93
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	17	0.93
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	9	0.92
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	10	0.92
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG21	20	0.92
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG22	20	0.92
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG23	20	0.92
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	14	0.92
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	18	0.91
(5,47)	1:X:117:ILE:C	1:X:97:GLU:H	5	0.91
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	5	0.91
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	2	0.91
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	9	0.91
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	19	0.91
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	16	0.91
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	12	0.91
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	17	0.91
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	20	0.9
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	13	0.9
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	20	0.9
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	11	0.9
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	9	0.89
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	16	0.89
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	20	0.89
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	4	0.89
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	20	0.89
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	8	0.88
(5,48)	1:X:147:VAL:C	1:X:98:GLU:H	10	0.88
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	20	0.88
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	4	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	20	0.88
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	3	0.88
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	5	0.88
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	5	0.88
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	9	0.88
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	7	0.87
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	9	0.87
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	1	0.87
(3,587)	1:X:91:TYR:N	1:X:85:LEU:CD1	12	0.87
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	4	0.87
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	4	0.86
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	11	0.86
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	14	0.86
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	13	0.86
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	11	0.86
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	10	0.86
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	15	0.86
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	3	0.86
(5,3)	1:X:6:GLN:C	1:X:10:GLU:H	2	0.85
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	2	0.85
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	10	0.85
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	5	0.84
(1,915)	1:X:108:GLN:HE21	1:X:107:VAL:CB	6	0.84
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	4	0.84
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	19	0.84
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	2	0.84
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	15	0.83
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	17	0.83
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	4	0.83
(3,145)	1:X:27:GLU:N	1:X:26:ILE:CD1	11	0.83
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	7	0.83
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	1	0.83
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	2	0.83
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	5	0.82
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	15	0.82
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	1	0.82
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	20	0.82
(2,85)	1:X:85:LEU:CD2	1:X:117:ILE:CD1	20	0.82
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	4	0.82
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	11	0.82
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	14	0.81
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	8	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	11	0.81
(3,587)	1:X:91:TYR:N	1:X:85:LEU:CD1	5	0.81
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	8	0.81
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	14	0.81
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	13	0.81
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	9	0.81
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	7	0.8
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	13	0.8
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	17	0.8
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	10	0.8
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	17	0.8
(1,570)	1:X:64:VAL:H	1:X:65:GLU:HB3	14	0.8
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	7	0.8
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	15	0.79
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	12	0.79
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	19	0.79
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	9	0.79
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	4	0.79
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	1	0.79
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	15	0.79
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	14	0.79
(3,587)	1:X:91:TYR:N	1:X:85:LEU:CD1	2	0.79
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	10	0.79
(1,8)	1:X:5:GLU:HG3	1:X:5:GLU:H	14	0.79
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	3	0.79
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	10	0.79
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	20	0.79
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	17	0.79
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	9	0.79
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	11	0.78
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	15	0.78
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	16	0.78
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	9	0.78
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	7	0.78
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	9	0.78
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	2	0.77
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	1	0.77
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	2	0.77
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	15	0.77
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	1	0.77
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	13	0.77
(3,481)	1:X:70:VAL:N	1:X:72:TYR:CB	1	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	2	0.77
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	4	0.76
(4,32)	1:X:33:THR:O	1:X:31:GLY:N	3	0.76
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	18	0.76
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	12	0.76
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	20	0.75
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	18	0.75
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	2	0.75
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	10	0.75
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	14	0.75
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	9	0.75
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	7	0.75
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	12	0.75
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	15	0.75
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	7	0.75
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	11	0.75
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	16	0.75
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	14	0.75
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	4	0.75
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	5	0.75
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	3	0.74
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	18	0.74
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	5	0.74
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	3	0.74
(4,94)	1:X:117:ILE:O	1:X:97:GLU:H	5	0.74
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	12	0.74
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	20	0.74
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	6	0.74
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	2	0.74
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	20	0.74
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	6	0.74
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	9	0.73
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	12	0.73
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	3	0.73
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	16	0.73
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	5	0.73
(3,145)	1:X:27:GLU:N	1:X:26:ILE:CD1	3	0.73
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	11	0.72
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	20	0.72
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	1	0.72
(1,942)	1:X:110:ARG:HG3	1:X:109:ASN:H	9	0.72
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	4	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	5	0.72
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	3	0.72
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	13	0.72
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	20	0.72
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	14	0.72
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	17	0.71
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	6	0.71
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	12	0.71
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	8	0.71
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	11	0.71
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	17	0.71
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	16	0.71
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	13	0.71
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	5	0.71
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	1	0.71
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	10	0.7
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	16	0.7
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	7	0.7
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	9	0.7
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	19	0.7
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	1	0.7
(2,85)	1:X:85:LEU:CD2	1:X:117:ILE:CD1	14	0.7
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	9	0.7
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	12	0.7
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	15	0.69
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	17	0.69
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	20	0.69
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	4	0.69
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	7	0.69
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	13	0.69
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	14	0.68
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	17	0.68
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	3	0.68
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	12	0.68
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	2	0.68
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	12	0.68
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	18	0.68
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	6	0.68
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	13	0.68
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	20	0.68
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	16	0.67
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	3	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	4	0.67
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	20	0.67
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	7	0.67
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	3	0.67
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	12	0.67
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	5	0.67
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	17	0.67
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	1	0.66
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	17	0.66
(5,2)	1:X:5:GLU:C	1:X:9:THR:H	2	0.66
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	20	0.66
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	11	0.66
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	15	0.66
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	13	0.66
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	11	0.66
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	3	0.66
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	14	0.66
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	19	0.66
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	16	0.66
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	20	0.66
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	1	0.65
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	6	0.65
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	17	0.65
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	18	0.65
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	5	0.65
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	10	0.65
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	2	0.65
(2,81)	1:X:85:LEU:CD2	1:X:99:VAL:CG1	5	0.65
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	17	0.65
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD1	2	0.65
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD2	2	0.65
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	3	0.65
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	17	0.65
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	8	0.64
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	18	0.64
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	14	0.64
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	12	0.64
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	20	0.64
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	16	0.64
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	17	0.64
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	19	0.64
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	7	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	11	0.64
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	4	0.64
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	18	0.64
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	9	0.64
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	8	0.64
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	17	0.64
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	12	0.63
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	9	0.63
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	20	0.63
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	15	0.63
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	3	0.63
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	15	0.63
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	1	0.63
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	2	0.63
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	5	0.63
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	1	0.63
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	4	0.63
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	4	0.62
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	1	0.62
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	10	0.62
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	7	0.62
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	1	0.62
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	5	0.62
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	4	0.62
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD1	9	0.62
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD2	9	0.62
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	1	0.62
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	6	0.62
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	14	0.62
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	15	0.61
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	14	0.61
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	1	0.61
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	9	0.61
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	8	0.61
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	13	0.61
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	13	0.61
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	10	0.61
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	10	0.61
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	19	0.61
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	5	0.61
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	18	0.61
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	15	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	11	0.61
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	18	0.61
(5,58)	1:X:121:ASP:C	1:X:124:MET:H	10	0.6
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	1	0.6
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	8	0.6
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	19	0.6
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	2	0.6
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	7	0.6
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	9	0.6
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	3	0.6
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	12	0.6
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	2	0.6
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	18	0.6
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	15	0.6
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	17	0.6
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	15	0.6
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	12	0.6
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	5	0.6
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	20	0.6
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	2	0.59
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	5	0.59
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	11	0.59
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	17	0.59
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	11	0.59
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	1	0.59
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	1	0.59
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	1	0.59
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	11	0.59
(1,917)	1:X:108:GLN:H	1:X:107:VAL:HB	18	0.59
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	20	0.59
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	2	0.59
(1,1034)	1:X:125:ILE:H	1:X:124:MET:HB3	4	0.59
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	1	0.58
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	7	0.58
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	14	0.58
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	8	0.58
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	19	0.58
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	14	0.58
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	16	0.58
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	6	0.58
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	19	0.58
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	5	0.58
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	20	0.58
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	1	0.58
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	9	0.58
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	10	0.58
(2,46)	1:X:38:ILE:CD1	1:X:76:VAL:CG1	16	0.58
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	6	0.58
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	16	0.58
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	19	0.58
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG21	13	0.58
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG22	13	0.58
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG23	13	0.58
(1,610)	1:X:71:ALA:H	1:X:70:VAL:CB	1	0.58
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	17	0.58
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	4	0.58
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	13	0.58
(5,49)	1:X:97:GLU:C	1:X:117:ILE:H	10	0.57
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	19	0.57
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	17	0.57
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	19	0.57
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	8	0.57
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	8	0.57
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	5	0.57
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	4	0.57
(1,1034)	1:X:125:ILE:H	1:X:124:MET:HB3	1	0.57
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	2	0.56
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	19	0.56
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	10	0.56
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	20	0.56
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	4	0.56
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	6	0.56
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	20	0.56
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	20	0.56
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	11	0.56
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	20	0.56
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	2	0.56
(1,506)	1:X:59:SER:HB2	1:X:60:ALA:H	16	0.56
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	12	0.56
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	6	0.56
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	13	0.56
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	3	0.56
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	10	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	11	0.56
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	7	0.55
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	11	0.55
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	5	0.55
(5,15)	1:X:29:ILE:C	1:X:35:THR:H	5	0.55
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	3	0.55
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	10	0.55
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	3	0.55
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	9	0.55
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	8	0.55
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	1	0.55
(1,1034)	1:X:125:ILE:H	1:X:124:MET:HB3	2	0.55
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	6	0.54
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	19	0.54
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	10	0.54
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	19	0.54
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	10	0.54
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	15	0.54
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	2	0.54
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	4	0.54
(4,4)	1:X:5:GLU:O	1:X:9:THR:H	2	0.54
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	15	0.54
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	14	0.54
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	20	0.54
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	13	0.54
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	7	0.54
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	19	0.54
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	15	0.54
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	6	0.54
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	1	0.54
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	5	0.54
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	3	0.53
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	4	0.53
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	15	0.53
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	9	0.53
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	2	0.53
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	14	0.53
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	7	0.53
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	15	0.53
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	1	0.53
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	8	0.53
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	11	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,293)	1:X:40:ILE:CD1	1:X:54:VAL:H	5	0.53
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	7	0.53
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	10	0.53
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	10	0.53
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	10	0.53
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	9	0.52
(5,58)	1:X:121:ASP:C	1:X:124:MET:H	14	0.52
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	20	0.52
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	10	0.52
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	14	0.52
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	11	0.52
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	17	0.52
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	15	0.52
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	2	0.52
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	6	0.52
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	9	0.52
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	13	0.52
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	18	0.52
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	9	0.52
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	16	0.52
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	9	0.52
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	5	0.52
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	10	0.52
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	3	0.52
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	8	0.51
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	19	0.51
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	5	0.51
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	3	0.51
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	12	0.51
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	6	0.51
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	15	0.51
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	15	0.51
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	2	0.51
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	3	0.51
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	9	0.51
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	14	0.51
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	1	0.51
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	3	0.51
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	2	0.51
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	13	0.51
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	6	0.51
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	2	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	7	0.51
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	19	0.51
(5,58)	1:X:121:ASP:C	1:X:124:MET:H	20	0.5
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	7	0.5
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	4	0.5
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	10	0.5
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	17	0.5
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	7	0.5
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	14	0.5
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	16	0.5
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	19	0.5
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	4	0.5
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	1	0.5
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	10	0.5
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	3	0.5
(1,193)	1:X:31:GLY:H	1:X:30:ARG:HG3	5	0.5
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	2	0.5
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	16	0.5
(5,8)	1:X:12:ILE:C	1:X:16:VAL:H	16	0.49
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	10	0.49
(5,58)	1:X:121:ASP:C	1:X:124:MET:H	9	0.49
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	14	0.49
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	1	0.49
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	4	0.49
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	5	0.49
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	8	0.49
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	9	0.49
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	19	0.49
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	8	0.49
(4,5)	1:X:6:GLN:O	1:X:10:GLU:H	2	0.49
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	19	0.49
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	4	0.49
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	6	0.49
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	18	0.49
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	12	0.49
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	20	0.49
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	7	0.49
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	5	0.49
(1,925)	1:X:108:GLN:HB2	1:X:109:ASN:H	9	0.49
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	9	0.49
(1,701)	1:X:81:LEU:H	1:X:82:ASP:H	13	0.49
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	5	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	9	0.49
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	20	0.49
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	2	0.49
(1,506)	1:X:59:SER:HB2	1:X:60:ALA:H	14	0.49
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	16	0.49
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	17	0.49
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	4	0.48
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	13	0.48
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	6	0.48
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	9	0.48
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	15	0.48
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	1	0.48
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	15	0.48
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	11	0.48
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	19	0.48
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	7	0.48
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	3	0.48
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	4	0.48
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	14	0.48
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	5	0.48
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	8	0.48
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	14	0.48
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	13	0.48
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	1	0.48
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	12	0.48
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	11	0.47
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	2	0.47
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	5	0.47
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	3	0.47
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	8	0.47
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	9	0.47
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	20	0.47
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	16	0.47
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	13	0.47
(2,85)	1:X:85:LEU:CD2	1:X:117:ILE:CD1	17	0.47
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	2	0.47
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	6	0.47
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	13	0.47
(1,218)	1:X:34:SER:H	1:X:73:ASN:H	14	0.47
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	5	0.47
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	11	0.46
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	17	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	2	0.46
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	17	0.46
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	7	0.46
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	12	0.46
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	15	0.46
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	7	0.46
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	16	0.46
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	4	0.46
(3,479)	1:X:70:VAL:CG1	1:X:70:VAL:N	1	0.46
(3,479)	1:X:70:VAL:CG1	1:X:70:VAL:N	2	0.46
(3,479)	1:X:70:VAL:CG1	1:X:70:VAL:N	13	0.46
(3,464)	1:X:66:ASP:N	1:X:64:VAL:CG1	20	0.46
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	10	0.46
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	11	0.46
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	2	0.46
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	8	0.46
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	16	0.46
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	18	0.46
(2,30)	1:X:33:THR:CG2	1:X:71:ALA:CB	5	0.46
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	6	0.46
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	14	0.46
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	10	0.46
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	16	0.46
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	18	0.46
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	4	0.46
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	7	0.46
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	13	0.46
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	14	0.46
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	4	0.46
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	20	0.46
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	8	0.46
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	18	0.46
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	2	0.45
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	1	0.45
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	12	0.45
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	16	0.45
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	3	0.45
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	20	0.45
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	16	0.45
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	7	0.45
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	8	0.45
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	9	0.45
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	18	0.45
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	12	0.45
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	6	0.45
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	11	0.45
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	7	0.45
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	9	0.45
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	19	0.45
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	6	0.45
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	19	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	3	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	4	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	5	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	6	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	7	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	10	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	11	0.45
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	19	0.45
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	17	0.45
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	16	0.45
(2,49)	1:X:40:ILE:CG2	1:X:40:ILE:CD1	5	0.45
(2,28)	1:X:29:ILE:CG2	1:X:29:ILE:CD1	8	0.45
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	1	0.45
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	10	0.45
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	11	0.45
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	7	0.45
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	15	0.45
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	18	0.45
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	10	0.45
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	19	0.45
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	2	0.45
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	16	0.45
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	4	0.44
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	1	0.44
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	16	0.44
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	15	0.44
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	16	0.44
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	8	0.44
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	12	0.44
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	19	0.44
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	4	0.44
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,15)	1:X:29:ILE:C	1:X:35:THR:H	14	0.44
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	2	0.44
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	18	0.44
(4,65)	1:X:56:HIS:O	1:X:60:ALA:H	3	0.44
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	9	0.44
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	19	0.44
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	9	0.44
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	10	0.44
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	5	0.44
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	12	0.44
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	13	0.44
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	20	0.44
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	3	0.44
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	5	0.44
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	10	0.44
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	17	0.44
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	1	0.44
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	9	0.44
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	2	0.44
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	13	0.44
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	16	0.44
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	17	0.44
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	5	0.44
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	9	0.44
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	2	0.44
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	6	0.44
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	16	0.44
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	9	0.44
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	12	0.44
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	13	0.44
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	14	0.44
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	17	0.44
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	15	0.44
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	11	0.44
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	8	0.44
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	19	0.44
(1,689)	1:X:79:PRO:HB3	1:X:80:GLY:H	18	0.44
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	5	0.44
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	13	0.44
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	6	0.43
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	18	0.43
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	17	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	10	0.43
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	18	0.43
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	10	0.43
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	8	0.43
(5,15)	1:X:29:ILE:C	1:X:35:THR:H	1	0.43
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	20	0.43
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	20	0.43
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	6	0.43
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	14	0.43
(4,6)	1:X:6:GLN:O	1:X:10:GLU:N	2	0.43
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	16	0.43
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	17	0.43
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	7	0.43
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	11	0.43
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	3	0.43
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	10	0.43
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	11	0.43
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	17	0.43
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	19	0.43
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	9	0.43
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	13	0.43
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	15	0.43
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	19	0.43
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	4	0.43
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	5	0.43
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	8	0.43
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	11	0.43
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	6	0.43
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	13	0.43
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	15	0.43
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	4	0.43
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	9	0.43
(3,415)	1:X:61:VAL:N	1:X:61:VAL:CG1	2	0.43
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	1	0.43
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	1	0.43
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	12	0.43
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	2	0.43
(2,28)	1:X:29:ILE:CG2	1:X:29:ILE:CD1	2	0.43
(2,28)	1:X:29:ILE:CG2	1:X:29:ILE:CD1	18	0.43
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	6	0.43
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	3	0.43
(1,62)	1:X:9:THR:HB	1:X:10:GLU:H	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	13	0.43
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	16	0.43
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	6	0.43
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	20	0.43
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	13	0.42
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	14	0.42
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	11	0.42
(4,97)	1:X:97:GLU:O	1:X:117:ILE:N	10	0.42
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	20	0.42
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	19	0.42
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	12	0.42
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	8	0.42
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	12	0.42
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	3	0.42
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	4	0.42
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	15	0.42
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	16	0.42
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	1	0.42
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	2	0.42
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	7	0.42
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	12	0.42
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	14	0.42
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	16	0.42
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	5	0.42
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	14	0.42
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	20	0.42
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	3	0.42
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	19	0.42
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	5	0.42
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	6	0.42
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	15	0.42
(2,86)	1:X:91:TYR:CA	1:X:117:ILE:CD1	9	0.42
(1,843)	1:X:100:THR:HA	1:X:115:GLY:H	18	0.42
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	6	0.42
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	12	0.42
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	17	0.42
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG21	2	0.42
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG22	2	0.42
(1,611)	1:X:71:ALA:H	1:X:70:VAL:HG23	2	0.42
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	9	0.42
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	3	0.42
(5,54)	1:X:102:VAL:C	1:X:143:LYS:H	7	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	10	0.41
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	20	0.41
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	11	0.41
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	1	0.41
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	14	0.41
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	13	0.41
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	8	0.41
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	17	0.41
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	20	0.41
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	6	0.41
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	10	0.41
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	12	0.41
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	15	0.41
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	20	0.41
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	7	0.41
(3,464)	1:X:66:ASP:N	1:X:64:VAL:CG1	13	0.41
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	19	0.41
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	2	0.41
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	8	0.41
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	5	0.41
(3,188)	1:X:33:THR:N	1:X:33:THR:CG2	20	0.41
(2,28)	1:X:29:ILE:CG2	1:X:29:ILE:CD1	6	0.41
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	9	0.41
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	12	0.41
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	18	0.41
(1,836)	1:X:99:VAL:H	1:X:117:ILE:HG12	11	0.41
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	14	0.41
(1,595)	1:X:66:ASP:HB2	1:X:72:TYR:H	20	0.41
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	1	0.41
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	18	0.41
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	15	0.41
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	5	0.41
(5,58)	1:X:121:ASP:C	1:X:124:MET:H	11	0.4
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	9	0.4
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	6	0.4
(5,3)	1:X:6:GLN:C	1:X:10:GLU:H	19	0.4
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	9	0.4
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	14	0.4
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	9	0.4
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	12	0.4
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	17	0.4
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	14	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	17	0.4
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	8	0.4
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	1	0.4
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	3	0.4
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	14	0.4
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	8	0.4
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	19	0.4
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	12	0.4
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	3	0.4
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	1	0.4
(3,574)	1:X:89:GLU:N	1:X:89:GLU:CG	3	0.4
(3,507)	1:X:75:GLU:N	1:X:75:GLU:CG	16	0.4
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	1	0.4
(3,45)	1:X:11:MET:N	1:X:11:MET:CG	18	0.4
(3,313)	1:X:52:ALA:N	1:X:40:ILE:CD1	5	0.4
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	10	0.4
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	11	0.4
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	8	0.4
(1,836)	1:X:99:VAL:H	1:X:117:ILE:HG12	4	0.4
(1,836)	1:X:99:VAL:H	1:X:117:ILE:HG12	5	0.4
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	10	0.4
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	12	0.4
(1,701)	1:X:81:LEU:H	1:X:82:ASP:H	7	0.4
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	16	0.4
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	4	0.4
(1,610)	1:X:71:ALA:H	1:X:70:VAL:CB	5	0.4
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	13	0.4
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	4	0.4
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	3	0.39
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	13	0.39
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	12	0.39
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	16	0.39
(4,3)	1:X:5:GLU:O	1:X:9:THR:N	2	0.39
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	20	0.39
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	9	0.39
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	15	0.39
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	14	0.39
(3,721)	1:X:105:MET:N	1:X:105:MET:CG	6	0.39
(3,712)	1:X:104:ARG:N	1:X:104:ARG:CG	4	0.39
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	7	0.39
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	6	0.39
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	16	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	2	0.39
(3,5)	1:X:5:GLU:N	1:X:5:GLU:CG	14	0.39
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	19	0.39
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	1	0.39
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	1	0.39
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	3	0.39
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD1	12	0.39
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD2	12	0.39
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	1	0.39
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	14	0.39
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	20	0.39
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	3	0.39
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	11	0.39
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	11	0.39
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	19	0.39
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	6	0.39
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	9	0.39
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	4	0.39
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	11	0.39
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	13	0.39
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	4	0.38
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	14	0.38
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	18	0.38
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	19	0.38
(4,98)	1:X:97:GLU:O	1:X:117:ILE:H	10	0.38
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	18	0.38
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	18	0.38
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	6	0.38
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	13	0.38
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	9	0.38
(3,474)	1:X:68:ILE:N	1:X:68:ILE:CG2	17	0.38
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	11	0.38
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	18	0.38
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	15	0.38
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	6	0.38
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	4	0.38
(1,640)	1:X:74:LEU:HD21	1:X:39:TYR:H	1	0.38
(1,640)	1:X:74:LEU:HD22	1:X:39:TYR:H	1	0.38
(1,640)	1:X:74:LEU:HD23	1:X:39:TYR:H	1	0.38
(1,610)	1:X:71:ALA:H	1:X:70:VAL:CB	20	0.38
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	19	0.38
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	5	0.38
(1,221)	1:X:35:THR:H	1:X:34:SER:HB3	5	0.38
(1,193)	1:X:31:GLY:H	1:X:30:ARG:HG3	1	0.38
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	13	0.37
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	6	0.37
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	19	0.37
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	5	0.37
(5,3)	1:X:6:GLN:C	1:X:10:GLU:H	9	0.37
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	5	0.37
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	7	0.37
(4,96)	1:X:147:VAL:O	1:X:98:GLU:H	10	0.37
(4,93)	1:X:117:ILE:O	1:X:97:GLU:N	5	0.37
(4,54)	1:X:50:ASP:O	1:X:54:VAL:H	10	0.37
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	10	0.37
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	19	0.37
(4,33)	1:X:34:SER:O	1:X:73:ASN:H	14	0.37
(4,31)	1:X:33:THR:O	1:X:31:GLY:H	18	0.37
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	3	0.37
(3,955)	1:X:147:VAL:N	1:X:146:LEU:CD1	9	0.37
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	2	0.37
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	16	0.37
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	6	0.37
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	7	0.37
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	15	0.37
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	18	0.37
(3,212)	1:X:37:ARG:N	1:X:27:GLU:CB	2	0.37
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	20	0.37
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	10	0.37
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	20	0.37
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	6	0.37
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	16	0.37
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	11	0.37
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	15	0.37
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	17	0.37
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	18	0.37
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	14	0.37
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	1	0.37
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	14	0.36
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	9	0.36
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	12	0.36
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	13	0.36
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	16	0.36
(4,85)	1:X:88:ALA:O	1:X:92:ALA:H	1	0.36
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	14	0.36
(4,66)	1:X:56:HIS:O	1:X:60:ALA:N	3	0.36
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	1	0.36
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	18	0.36
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	16	0.36
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	13	0.36
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	15	0.36
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	14	0.36
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	6	0.36
(1,998)	1:X:121:ASP:H	1:X:125:ILE:CD1	16	0.36
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	9	0.36
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	12	0.36
(1,773)	1:X:94:PHE:HB3	1:X:97:GLU:H	19	0.36
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	10	0.36
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	19	0.36
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	4	0.36
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	6	0.36
(1,292)	1:X:40:ILE:CD1	1:X:51:CYS:H	5	0.36
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	16	0.36
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	13	0.35
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	9	0.35
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	1	0.35
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	1	0.35
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	13	0.35
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	20	0.35
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	14	0.35
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	17	0.35
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	7	0.35
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	10	0.35
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	8	0.35
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	6	0.35
(2,86)	1:X:91:TYR:CA	1:X:117:ILE:CD1	14	0.35
(2,107)	1:X:120:VAL:CG2	1:X:125:ILE:CD1	7	0.35
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	2	0.35
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	15	0.35
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	1	0.35
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	11	0.35
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	3	0.35
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	19	0.35
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	20	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	4	0.35
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	11	0.35
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	10	0.35
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	1	0.35
(1,227)	1:X:35:THR:HG21	1:X:75:GLU:H	14	0.35
(1,227)	1:X:35:THR:HG22	1:X:75:GLU:H	14	0.35
(1,227)	1:X:35:THR:HG23	1:X:75:GLU:H	14	0.35
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	14	0.35
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	2	0.35
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	17	0.35
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	4	0.34
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	18	0.34
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	3	0.34
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	17	0.34
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	18	0.34
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	2	0.34
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	10	0.34
(4,67)	1:X:57:GLN:O	1:X:61:VAL:H	7	0.34
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	3	0.34
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	19	0.34
(3,954)	1:X:147:VAL:N	1:X:146:LEU:CD2	11	0.34
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	17	0.34
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	13	0.34
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	14	0.34
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	5	0.34
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	7	0.34
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	8	0.34
(3,203)	1:X:36:LEU:N	1:X:35:THR:CG2	14	0.34
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	4	0.34
(1,864)	1:X:101:LEU:H	1:X:114:GLN:HB2	6	0.34
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	14	0.34
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	1	0.34
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	4	0.34
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	14	0.34
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	11	0.34
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	1	0.34
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	17	0.34
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	14	0.34
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	4	0.34
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	6	0.34
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	4	0.34
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	11	0.33
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	8	0.33
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	17	0.33
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	19	0.33
(4,68)	1:X:57:GLN:O	1:X:61:VAL:N	7	0.33
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	8	0.33
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	10	0.33
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	5	0.33
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	5	0.33
(3,894)	1:X:136:PHE:N	1:X:126:THR:CG2	20	0.33
(3,765)	1:X:115:GLY:N	1:X:129:VAL:CG2	17	0.33
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	5	0.33
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	3	0.33
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	5	0.33
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	5	0.33
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	17	0.33
(3,468)	1:X:66:ASP:N	1:X:67:PRO:CG	14	0.33
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	12	0.33
(2,86)	1:X:91:TYR:CA	1:X:117:ILE:CD1	20	0.33
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	4	0.33
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	3	0.33
(1,925)	1:X:108:GLN:HB2	1:X:109:ASN:H	6	0.33
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	16	0.33
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	20	0.33
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	9	0.33
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	19	0.33
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	8	0.33
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	10	0.33
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	16	0.33
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	15	0.33
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	8	0.33
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	7	0.33
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	11	0.33
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	18	0.32
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	18	0.32
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	7	0.32
(5,2)	1:X:5:GLU:C	1:X:9:THR:H	1	0.32
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	6	0.32
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	3	0.32
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	1	0.32
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	12	0.32
(4,75)	1:X:71:ALA:O	1:X:34:SER:H	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	14	0.32
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	9	0.32
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	12	0.32
(4,30)	1:X:29:ILE:O	1:X:35:THR:H	5	0.32
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	6	0.32
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	5	0.32
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	13	0.32
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	12	0.32
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	4	0.32
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	6	0.32
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	9	0.32
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	20	0.32
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	1	0.32
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	15	0.32
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	8	0.32
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	15	0.32
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	2	0.32
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	10	0.32
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	8	0.32
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	16	0.32
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	3	0.32
(1,227)	1:X:35:THR:HG21	1:X:75:GLU:H	1	0.32
(1,227)	1:X:35:THR:HG22	1:X:75:GLU:H	1	0.32
(1,227)	1:X:35:THR:HG23	1:X:75:GLU:H	1	0.32
(1,193)	1:X:31:GLY:H	1:X:30:ARG:HG3	14	0.32
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	17	0.32
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	7	0.31
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	13	0.31
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	6	0.31
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	20	0.31
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	18	0.31
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	8	0.31
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	4	0.31
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	8	0.31
(4,86)	1:X:88:ALA:O	1:X:92:ALA:N	1	0.31
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	2	0.31
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	20	0.31
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	19	0.31
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	15	0.31
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	20	0.31
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	10	0.31
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	14	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	5	0.31
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	5	0.31
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	10	0.31
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	18	0.31
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	3	0.31
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	12	0.31
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	16	0.31
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	18	0.31
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	2	0.31
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	7	0.31
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	18	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	1	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	2	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	3	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	4	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	5	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	6	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	7	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	8	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	9	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	10	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	11	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	12	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	13	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	14	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	15	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	16	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	17	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	18	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	19	0.31
(1,960)	1:X:114:GLN:HE22	1:X:114:GLN:HE21	20	0.31
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	17	0.31
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	6	0.31
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	1	0.31
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	16	0.31
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	11	0.31
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	2	0.31
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	12	0.31
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	12	0.31
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	9	0.31
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	12	0.31
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	11	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,175)	1:X:29:ILE:HB	1:X:35:THR:H	19	0.31
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	12	0.31
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	15	0.31
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	12	0.31
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	1	0.3
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	5	0.3
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	8	0.3
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	10	0.3
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	10	0.3
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	1	0.3
(5,24)	1:X:47:ASN:C	1:X:50:ASP:H	3	0.3
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	7	0.3
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	11	0.3
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	7	0.3
(4,53)	1:X:50:ASP:O	1:X:54:VAL:N	10	0.3
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	1	0.3
(4,1)	1:X:4:LEU:O	1:X:8:LEU:H	15	0.3
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	3	0.3
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	7	0.3
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	16	0.3
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	10	0.3
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	6	0.3
(3,484)	1:X:71:ALA:N	1:X:70:VAL:CB	1	0.3
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	19	0.3
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	12	0.3
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	5	0.3
(2,107)	1:X:120:VAL:CG2	1:X:125:ILE:CD1	12	0.3
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	15	0.3
(1,773)	1:X:94:PHE:HB3	1:X:97:GLU:H	4	0.3
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	8	0.3
(1,590)	1:X:66:ASP:H	1:X:65:GLU:HB3	14	0.3
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	8	0.3
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	7	0.3
(1,248)	1:X:37:ARG:H	1:X:36:LEU:HB3	12	0.3
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	10	0.3
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	7	0.3
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	19	0.3
(1,1190)	1:X:141:ILE:HG13	1:X:137:ALA:H	14	0.3
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	18	0.3
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	16	0.3
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	14	0.3
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	11	0.29
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	15	0.29
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	15	0.29
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	20	0.29
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	13	0.29
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	16	0.29
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	8	0.29
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	6	0.29
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	9	0.29
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	18	0.29
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	3	0.29
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	19	0.29
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	15	0.29
(4,76)	1:X:71:ALA:O	1:X:34:SER:N	5	0.29
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	1	0.29
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	15	0.29
(4,2)	1:X:4:LEU:O	1:X:8:LEU:N	15	0.29
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	10	0.29
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	13	0.29
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	5	0.29
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	17	0.29
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	18	0.29
(3,765)	1:X:115:GLY:N	1:X:129:VAL:CG2	20	0.29
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	3	0.29
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	17	0.29
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	6	0.29
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	15	0.29
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	8	0.29
(3,587)	1:X:91:TYR:N	1:X:85:LEU:CD1	16	0.29
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	17	0.29
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	15	0.29
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	18	0.29
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	8	0.29
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	4	0.29
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	17	0.29
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	16	0.29
(2,92)	1:X:101:LEU:CD2	1:X:141:ILE:CG2	5	0.29
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	19	0.29
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	17	0.29
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	20	0.29
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	20	0.29
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	13	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	3	0.29
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	15	0.29
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	13	0.29
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	19	0.29
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	8	0.29
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	12	0.29
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	12	0.29
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	3	0.29
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	6	0.29
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	16	0.29
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	20	0.28
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	5	0.28
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	20	0.28
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	5	0.28
(4,53)	1:X:50:ASP:O	1:X:54:VAL:N	15	0.28
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	1	0.28
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	4	0.28
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	12	0.28
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	20	0.28
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	19	0.28
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	13	0.28
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	8	0.28
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	18	0.28
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	3	0.28
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	5	0.28
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	2	0.28
(2,107)	1:X:120:VAL:CG2	1:X:125:ILE:CD1	10	0.28
(2,106)	1:X:117:ILE:CD1	1:X:125:ILE:CG2	5	0.28
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	20	0.28
(1,925)	1:X:108:GLN:HB2	1:X:109:ASN:H	11	0.28
(1,925)	1:X:108:GLN:HB2	1:X:109:ASN:H	13	0.28
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	15	0.28
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	18	0.28
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	20	0.28
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	20	0.28
(1,618)	1:X:71:ALA:HB1	1:X:72:TYR:H	11	0.28
(1,618)	1:X:71:ALA:HB2	1:X:72:TYR:H	11	0.28
(1,618)	1:X:71:ALA:HB3	1:X:72:TYR:H	11	0.28
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	2	0.28
(1,453)	1:X:56:HIS:HB3	1:X:55:SER:H	3	0.28
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	13	0.28
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	14	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	5	0.28
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	16	0.28
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	7	0.28
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	14	0.28
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	3	0.28
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	6	0.28
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	7	0.28
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	20	0.28
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	18	0.27
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	2	0.27
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	7	0.27
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	13	0.27
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	5	0.27
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	1	0.27
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	3	0.27
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	14	0.27
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	19	0.27
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	10	0.27
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	11	0.27
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	12	0.27
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	13	0.27
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	6	0.27
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	3	0.27
(4,75)	1:X:71:ALA:O	1:X:34:SER:H	1	0.27
(4,65)	1:X:56:HIS:O	1:X:60:ALA:H	11	0.27
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	14	0.27
(4,54)	1:X:50:ASP:O	1:X:54:VAL:H	15	0.27
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	20	0.27
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	8	0.27
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	2	0.27
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	6	0.27
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	19	0.27
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	8	0.27
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	19	0.27
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	8	0.27
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	2	0.27
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	10	0.27
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	17	0.27
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	19	0.27
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	2	0.27
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	9	0.27
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,836)	1:X:99:VAL:H	1:X:117:ILE:HG12	2	0.27
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	17	0.27
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	5	0.27
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	10	0.27
(1,52)	1:X:10:GLU:H	1:X:7:LYS:H	2	0.27
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	5	0.27
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	13	0.27
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	17	0.27
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	2	0.27
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	1	0.27
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	20	0.27
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	19	0.27
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	19	0.27
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	16	0.27
(1,175)	1:X:29:ILE:HB	1:X:35:THR:H	18	0.27
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	4	0.27
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	12	0.27
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	14	0.27
(1,1043)	1:X:125:ILE:H	1:X:136:PHE:H	1	0.27
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	7	0.26
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	3	0.26
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	16	0.26
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	20	0.26
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	1	0.26
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	13	0.26
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	15	0.26
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	16	0.26
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	1	0.26
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	16	0.26
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	13	0.26
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	20	0.26
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	15	0.26
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	20	0.26
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	4	0.26
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	12	0.26
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	4	0.26
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	19	0.26
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	5	0.26
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	9	0.26
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	3	0.26
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	1	0.26
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	13	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	14	0.26
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	17	0.26
(3,159)	1:X:29:ILE:N	1:X:28:PHE:CB	12	0.26
(1,899)	1:X:106:ALA:HA	1:X:103:LEU:H	12	0.26
(1,836)	1:X:99:VAL:H	1:X:117:ILE:HG12	3	0.26
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	19	0.26
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	9	0.26
(1,679)	1:X:77:SER:HB3	1:X:78:SER:H	19	0.26
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	8	0.26
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	5	0.26
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	4	0.26
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	2	0.26
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	17	0.26
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	11	0.26
(1,5)	1:X:5:GLU:H	1:X:4:LEU:HG	19	0.26
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	15	0.26
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	19	0.26
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	20	0.26
(1,248)	1:X:37:ARG:H	1:X:36:LEU:HB3	11	0.26
(1,221)	1:X:35:THR:H	1:X:34:SER:HB3	13	0.26
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	12	0.26
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	6	0.26
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	6	0.26
(1,1190)	1:X:141:ILE:HG13	1:X:137:ALA:H	17	0.26
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	15	0.26
(1,1043)	1:X:125:ILE:H	1:X:136:PHE:H	4	0.26
(5,63)	1:X:128:THR:C	1:X:116:VAL:H	11	0.25
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	12	0.25
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	8	0.25
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	15	0.25
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	11	0.25
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	20	0.25
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	19	0.25
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	3	0.25
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	7	0.25
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	17	0.25
(4,66)	1:X:56:HIS:O	1:X:60:ALA:N	11	0.25
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	3	0.25
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	4	0.25
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	7	0.25
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	20	0.25
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	9	0.25
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	7	0.25
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	17	0.25
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	8	0.25
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	12	0.25
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	19	0.25
(2,4)	1:X:8:LEU:CD1	1:X:11:MET:CE	13	0.25
(2,4)	1:X:8:LEU:CD2	1:X:11:MET:CE	13	0.25
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	13	0.25
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	7	0.25
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	2	0.25
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	4	0.25
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	11	0.25
(1,658)	1:X:76:VAL:HB	1:X:55:SER:H	16	0.25
(1,636)	1:X:73:ASN:HB3	1:X:74:LEU:H	19	0.25
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	1	0.25
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	3	0.25
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	15	0.25
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	1	0.25
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	12	0.25
(1,315)	1:X:44:ASP:H	1:X:43:GLU:HG2	3	0.25
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	2	0.25
(1,221)	1:X:35:THR:H	1:X:34:SER:HB3	17	0.25
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	11	0.25
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	9	0.25
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	17	0.25
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	1	0.25
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	6	0.25
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	18	0.25
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	7	0.25
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	13	0.25
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	2	0.25
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	14	0.25
(1,1045)	1:X:125:ILE:H	1:X:138:LEU:H	9	0.25
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	5	0.24
(5,67)	1:X:136:PHE:C	1:X:125:ILE:H	4	0.24
(5,63)	1:X:128:THR:C	1:X:116:VAL:H	5	0.24
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	1	0.24
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	14	0.24
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	3	0.24
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	20	0.24
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	7	0.24
(5,3)	1:X:6:GLN:C	1:X:10:GLU:H	10	0.24
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	13	0.24
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	11	0.24
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	5	0.24
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	15	0.24
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	15	0.24
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	17	0.24
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	7	0.24
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	10	0.24
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	4	0.24
(4,24)	1:X:23:LEU:O	1:X:41:ASP:H	13	0.24
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	8	0.24
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	5	0.24
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	17	0.24
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	8	0.24
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	10	0.24
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	2	0.24
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	12	0.24
(3,823)	1:X:124:MET:CB	1:X:125:ILE:N	1	0.24
(3,823)	1:X:124:MET:CB	1:X:125:ILE:N	2	0.24
(3,823)	1:X:124:MET:CB	1:X:125:ILE:N	4	0.24
(3,814)	1:X:124:MET:N	1:X:121:ASP:CB	16	0.24
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	18	0.24
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	4	0.24
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	18	0.24
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	19	0.24
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	3	0.24
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	11	0.24
(3,371)	1:X:57:GLN:N	1:X:54:VAL:CG2	3	0.24
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	2	0.24
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	14	0.24
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	15	0.24
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	8	0.24
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	13	0.24
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	11	0.24
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	17	0.24
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	13	0.24
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	8	0.24
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	12	0.24
(1,575)	1:X:65:GLU:HB2	1:X:64:VAL:H	4	0.24
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	1	0.24
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	2	0.24
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	3	0.24
(1,289)	1:X:40:ILE:H	1:X:39:TYR:HB3	6	0.24
(1,148)	1:X:25:GLY:H	1:X:40:ILE:HG13	5	0.24
(1,1190)	1:X:141:ILE:HG13	1:X:137:ALA:H	20	0.24
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	9	0.24
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	4	0.24
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	1	0.24
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	2	0.24
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	10	0.23
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	1	0.23
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	3	0.23
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	5	0.23
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	7	0.23
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	12	0.23
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	4	0.23
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	6	0.23
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	19	0.23
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	4	0.23
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	17	0.23
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	16	0.23
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	7	0.23
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	13	0.23
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	20	0.23
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	14	0.23
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	10	0.23
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	3	0.23
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	19	0.23
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	20	0.23
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	3	0.23
(3,878)	1:X:133:ASP:N	1:X:128:THR:CG2	10	0.23
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	12	0.23
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	18	0.23
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	10	0.23
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	15	0.23
(3,555)	1:X:87:THR:N	1:X:85:LEU:CD1	13	0.23
(3,464)	1:X:66:ASP:N	1:X:64:VAL:CG1	17	0.23
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	18	0.23
(3,159)	1:X:29:ILE:N	1:X:28:PHE:CB	11	0.23
(2,59)	1:X:54:VAL:CG2	1:X:40:ILE:CD1	14	0.23
(1,912)	1:X:107:VAL:H	1:X:110:ARG:H	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	10	0.23
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	7	0.23
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	6	0.23
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	20	0.23
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	18	0.23
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	20	0.23
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	16	0.23
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	9	0.23
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	17	0.23
(1,51)	1:X:10:GLU:H	1:X:7:LYS:HA	12	0.23
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	5	0.23
(1,453)	1:X:56:HIS:HB3	1:X:55:SER:H	2	0.23
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	5	0.23
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	17	0.23
(1,420)	1:X:54:VAL:H	1:X:51:CYS:HA	3	0.23
(1,248)	1:X:37:ARG:H	1:X:36:LEU:HB3	16	0.23
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	2	0.23
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	19	0.23
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	6	0.23
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	15	0.23
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	19	0.23
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	9	0.23
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	13	0.23
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	12	0.22
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	4	0.22
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	8	0.22
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	12	0.22
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	10	0.22
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	13	0.22
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	13	0.22
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	2	0.22
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	20	0.22
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	7	0.22
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	20	0.22
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	13	0.22
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	17	0.22
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	4	0.22
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	4	0.22
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	13	0.22
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	9	0.22
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	9	0.22
(4,47)	1:X:47:ASN:O	1:X:50:ASP:H	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	19	0.22
(3,847)	1:X:128:THR:CB	1:X:116:VAL:N	11	0.22
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	2	0.22
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	2	0.22
(3,746)	1:X:112:LYS:N	1:X:111:ARG:CB	9	0.22
(3,666)	1:X:94:PHE:N	1:X:117:ILE:CG2	11	0.22
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	20	0.22
(3,661)	1:X:91:TYR:N	1:X:120:VAL:CG1	15	0.22
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	8	0.22
(3,595)	1:X:92:ALA:N	1:X:85:LEU:CD1	8	0.22
(3,556)	1:X:87:THR:N	1:X:86:PHE:CB	13	0.22
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	18	0.22
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	8	0.22
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	12	0.22
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	16	0.22
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	19	0.22
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	10	0.22
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	13	0.22
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	4	0.22
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	15	0.22
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	16	0.22
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	11	0.22
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	19	0.22
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	6	0.22
(1,640)	1:X:74:LEU:HD21	1:X:39:TYR:H	14	0.22
(1,640)	1:X:74:LEU:HD22	1:X:39:TYR:H	14	0.22
(1,640)	1:X:74:LEU:HD23	1:X:39:TYR:H	14	0.22
(1,575)	1:X:65:GLU:HB2	1:X:64:VAL:H	8	0.22
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	5	0.22
(1,5)	1:X:5:GLU:H	1:X:4:LEU:HG	15	0.22
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	4	0.22
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	20	0.22
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	5	0.22
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	19	0.22
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	14	0.22
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	20	0.22
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	2	0.22
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	19	0.22
(1,351)	1:X:47:ASN:H	1:X:46:ILE:HG13	20	0.22
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	16	0.22
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	4	0.22
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	11	0.22
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	3	0.22
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	13	0.22
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	10	0.22
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	7	0.22
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	6	0.22
(5,9)	1:X:13:THR:C	1:X:17:GLU:H	13	0.21
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	9	0.21
(5,67)	1:X:136:PHE:C	1:X:125:ILE:H	1	0.21
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	3	0.21
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	18	0.21
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	11	0.21
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	10	0.21
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	3	0.21
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	2	0.21
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	7	0.21
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	12	0.21
(5,2)	1:X:5:GLU:C	1:X:9:THR:H	12	0.21
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	7	0.21
(5,16)	1:X:33:THR:C	1:X:31:GLY:H	18	0.21
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	19	0.21
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	15	0.21
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	5	0.21
(4,60)	1:X:53:ASP:O	1:X:57:GLN:N	10	0.21
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	8	0.21
(4,21)	1:X:15:PRO:O	1:X:19:LEU:H	7	0.21
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	11	0.21
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	17	0.21
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	11	0.21
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	15	0.21
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	8	0.21
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	10	0.21
(3,940)	1:X:144:ALA:N	1:X:143:LYS:CG	5	0.21
(3,887)	1:X:135:VAL:CG2	1:X:125:ILE:N	4	0.21
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	1	0.21
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	4	0.21
(3,661)	1:X:91:TYR:N	1:X:120:VAL:CG1	16	0.21
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	8	0.21
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	9	0.21
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	10	0.21
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	15	0.21
(3,462)	1:X:66:ASP:N	1:X:11:MET:CE	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	10	0.21
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	20	0.21
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	20	0.21
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	19	0.21
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	12	0.21
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	2	0.21
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	15	0.21
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	20	0.21
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	5	0.21
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	12	0.21
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	11	0.21
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	18	0.21
(1,640)	1:X:74:LEU:HD21	1:X:39:TYR:H	11	0.21
(1,640)	1:X:74:LEU:HD22	1:X:39:TYR:H	11	0.21
(1,640)	1:X:74:LEU:HD23	1:X:39:TYR:H	11	0.21
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	11	0.21
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	12	0.21
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	15	0.21
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	10	0.21
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	16	0.21
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	17	0.21
(1,453)	1:X:56:HIS:HB3	1:X:55:SER:H	7	0.21
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	18	0.21
(1,351)	1:X:47:ASN:H	1:X:46:ILE:HG13	16	0.21
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	16	0.21
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	3	0.21
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	20	0.21
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	4	0.21
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	3	0.21
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	20	0.21
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	5	0.21
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	16	0.21
(5,9)	1:X:13:THR:C	1:X:17:GLU:H	10	0.2
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	18	0.2
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	3	0.2
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	5	0.2
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	14	0.2
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	1	0.2
(5,40)	1:X:75:GLU:C	1:X:38:ILE:H	9	0.2
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	15	0.2
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	9	0.2
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	15	0.2
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	2	0.2
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	7	0.2
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	3	0.2
(5,23)	1:X:41:ASP:C	1:X:23:LEU:H	12	0.2
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	2	0.2
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	5	0.2
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	17	0.2
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	4	0.2
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	3	0.2
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	18	0.2
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	1	0.2
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	18	0.2
(4,88)	1:X:89:GLU:O	1:X:93:ARG:N	19	0.2
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	1	0.2
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	4	0.2
(4,71)	1:X:59:SER:O	1:X:63:ASP:H	4	0.2
(4,67)	1:X:57:GLN:O	1:X:61:VAL:H	9	0.2
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	10	0.2
(4,23)	1:X:23:LEU:O	1:X:41:ASP:N	13	0.2
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	5	0.2
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	11	0.2
(4,115)	1:X:121:ASP:O	1:X:124:MET:H	10	0.2
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	6	0.2
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	11	0.2
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	15	0.2
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	20	0.2
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	14	0.2
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	10	0.2
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	14	0.2
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	6	0.2
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	1	0.2
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	7	0.2
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	16	0.2
(3,666)	1:X:94:PHE:N	1:X:117:ILE:CG2	3	0.2
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	12	0.2
(3,554)	1:X:85:LEU:CA	1:X:87:THR:N	8	0.2
(3,554)	1:X:85:LEU:CA	1:X:87:THR:N	9	0.2
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	19	0.2
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	3	0.2
(3,313)	1:X:52:ALA:N	1:X:40:ILE:CD1	16	0.2
(3,203)	1:X:36:LEU:N	1:X:35:THR:CG2	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,86)	1:X:91:TYR:CA	1:X:117:ILE:CD1	1	0.2
(2,37)	1:X:38:ILE:CG2	1:X:26:ILE:CD1	3	0.2
(2,121)	1:X:138:LEU:CD1	1:X:141:ILE:CD1	6	0.2
(1,916)	1:X:108:GLN:H	1:X:107:VAL:CB	18	0.2
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	11	0.2
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	15	0.2
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	10	0.2
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	13	0.2
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	20	0.2
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	10	0.2
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	17	0.2
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	1	0.2
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	2	0.2
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	10	0.2
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	5	0.2
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	12	0.2
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	4	0.2
(1,146)	1:X:25:GLY:H	1:X:39:TYR:HB2	7	0.2
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	7	0.2
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	10	0.2
(1,1135)	1:X:134:GLU:H	1:X:127:VAL:H	16	0.2
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	14	0.2
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	4	0.2
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	20	0.19
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	4	0.19
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	12	0.19
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	16	0.19
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	14	0.19
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	15	0.19
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	15	0.19
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	4	0.19
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	10	0.19
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	14	0.19
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	19	0.19
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	15	0.19
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	4	0.19
(5,26)	1:X:49:ASP:C	1:X:53:ASP:H	4	0.19
(5,25)	1:X:48:VAL:C	1:X:52:ALA:H	8	0.19
(4,68)	1:X:57:GLN:O	1:X:61:VAL:N	9	0.19
(4,67)	1:X:57:GLN:O	1:X:61:VAL:H	8	0.19
(4,21)	1:X:15:PRO:O	1:X:19:LEU:H	2	0.19
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	16	0.19
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	2	0.19
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	4	0.19
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	17	0.19
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	14	0.19
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	20	0.19
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	11	0.19
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	16	0.19
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	1	0.19
(3,716)	1:X:104:ARG:N	1:X:105:MET:CB	7	0.19
(3,690)	1:X:101:LEU:CG	1:X:115:GLY:N	13	0.19
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	18	0.19
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	13	0.19
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	2	0.19
(3,556)	1:X:87:THR:N	1:X:86:PHE:CB	6	0.19
(3,556)	1:X:87:THR:N	1:X:86:PHE:CB	12	0.19
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	10	0.19
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	1	0.19
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	14	0.19
(3,356)	1:X:55:SER:N	1:X:76:VAL:CG1	16	0.19
(3,243)	1:X:41:ASP:N	1:X:22:GLU:CG	17	0.19
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	11	0.19
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	11	0.19
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	15	0.19
(1,96)	1:X:19:LEU:H	1:X:16:VAL:HA	9	0.19
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	8	0.19
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	17	0.19
(1,773)	1:X:94:PHE:HB3	1:X:97:GLU:H	11	0.19
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	2	0.19
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	8	0.19
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	16	0.19
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	4	0.19
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	18	0.19
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	1	0.19
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	4	0.19
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	12	0.19
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	7	0.19
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	18	0.19
(1,295)	1:X:41:ASP:H	1:X:21:PHE:HA	3	0.19
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	13	0.19
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	6	0.19
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,179)	1:X:29:ILE:H	1:X:36:LEU:H	7	0.19
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	15	0.19
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	5	0.19
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	17	0.19
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	19	0.18
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	3	0.18
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	9	0.18
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	10	0.18
(5,67)	1:X:136:PHE:C	1:X:125:ILE:H	12	0.18
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	2	0.18
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	7	0.18
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	11	0.18
(5,56)	1:X:116:VAL:C	1:X:128:THR:H	5	0.18
(5,56)	1:X:116:VAL:C	1:X:128:THR:H	11	0.18
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	6	0.18
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	9	0.18
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	19	0.18
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	8	0.18
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	15	0.18
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	18	0.18
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	16	0.18
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	6	0.18
(5,41)	1:X:77:SER:C	1:X:40:ILE:H	14	0.18
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	5	0.18
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	9	0.18
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	20	0.18
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	9	0.18
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	14	0.18
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	8	0.18
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	10	0.18
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	2	0.18
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	15	0.18
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	4	0.18
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	5	0.18
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	12	0.18
(5,1)	1:X:4:LEU:C	1:X:8:LEU:H	17	0.18
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	10	0.18
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	16	0.18
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	6	0.18
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	4	0.18
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	18	0.18
(3,749)	1:X:113:TRP:N	1:X:101:LEU:CD1	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	7	0.18
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	3	0.18
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	14	0.18
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	13	0.18
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	14	0.18
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	6	0.18
(3,197)	1:X:35:THR:N	1:X:34:SER:CB	5	0.18
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	18	0.18
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	5	0.18
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	19	0.18
(1,96)	1:X:19:LEU:H	1:X:16:VAL:HA	6	0.18
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	14	0.18
(1,774)	1:X:94:PHE:HA	1:X:97:GLU:H	11	0.18
(1,759)	1:X:93:ARG:H	1:X:90:HIS:HA	12	0.18
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	11	0.18
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	20	0.18
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	11	0.18
(1,595)	1:X:66:ASP:HB2	1:X:72:TYR:H	19	0.18
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	6	0.18
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	6	0.18
(1,585)	1:X:66:ASP:H	1:X:63:ASP:HA	18	0.18
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	13	0.18
(1,5)	1:X:5:GLU:H	1:X:4:LEU:HG	10	0.18
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	7	0.18
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	9	0.18
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	5	0.18
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	9	0.18
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	4	0.18
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	18	0.18
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	9	0.18
(1,219)	1:X:35:THR:H	1:X:28:PHE:HA	10	0.18
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	3	0.18
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	13	0.18
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	19	0.18
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	20	0.18
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	11	0.18
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	9	0.18
(1,1007)	1:X:122:GLY:H	1:X:124:MET:H	10	0.18
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	2	0.17
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	4	0.17
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	1	0.17
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	10	0.17
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	6	0.17
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	14	0.17
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	19	0.17
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	11	0.17
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	5	0.17
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	11	0.17
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	19	0.17
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	4	0.17
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	7	0.17
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	18	0.17
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	1	0.17
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	20	0.17
(5,34)	1:X:57:GLN:C	1:X:61:VAL:H	14	0.17
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	4	0.17
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	6	0.17
(5,28)	1:X:51:CYS:C	1:X:55:SER:H	10	0.17
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	1	0.17
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	8	0.17
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	17	0.17
(5,19)	1:X:36:LEU:C	1:X:75:GLU:H	9	0.17
(5,19)	1:X:36:LEU:C	1:X:75:GLU:H	12	0.17
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	4	0.17
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	19	0.17
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	11	0.17
(4,74)	1:X:60:ALA:O	1:X:64:VAL:N	16	0.17
(4,65)	1:X:56:HIS:O	1:X:60:ALA:H	5	0.17
(4,47)	1:X:47:ASN:O	1:X:50:ASP:H	5	0.17
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	2	0.17
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	19	0.17
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	1	0.17
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	7	0.17
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	12	0.17
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	7	0.17
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	5	0.17
(3,847)	1:X:128:THR:CB	1:X:116:VAL:N	3	0.17
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	9	0.17
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	11	0.17
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	7	0.17
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	12	0.17
(3,749)	1:X:113:TRP:N	1:X:101:LEU:CD1	8	0.17
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,716)	1:X:104:ARG:N	1:X:105:MET:CB	9	0.17
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	2	0.17
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	9	0.17
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	2	0.17
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	13	0.17
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	17	0.17
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	6	0.17
(3,435)	1:X:63:ASP:N	1:X:62:LEU:CD1	13	0.17
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	15	0.17
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	16	0.17
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	15	0.17
(3,175)	1:X:31:GLY:N	1:X:30:ARG:CD	13	0.17
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	4	0.17
(2,121)	1:X:138:LEU:CD1	1:X:141:ILE:CD1	15	0.17
(1,717)	1:X:87:THR:H	1:X:86:PHE:HB2	19	0.17
(1,685)	1:X:78:SER:HB2	1:X:78:SER:H	3	0.17
(1,685)	1:X:78:SER:HB2	1:X:78:SER:H	14	0.17
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	16	0.17
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	20	0.17
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	3	0.17
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	2	0.17
(1,51)	1:X:10:GLU:H	1:X:7:LYS:HA	13	0.17
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	18	0.17
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	1	0.17
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	7	0.17
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	15	0.17
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	17	0.17
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	4	0.17
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	7	0.17
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	11	0.17
(1,420)	1:X:54:VAL:H	1:X:51:CYS:HA	2	0.17
(1,335)	1:X:46:ILE:H	1:X:45:GLY:H	16	0.17
(1,315)	1:X:44:ASP:H	1:X:43:GLU:HG2	11	0.17
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	10	0.17
(1,241)	1:X:37:ARG:H	1:X:27:GLU:HB2	2	0.17
(1,204)	1:X:33:THR:H	1:X:32:ARG:HG2	9	0.17
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	4	0.17
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	17	0.17
(1,1191)	1:X:141:ILE:H	1:X:138:LEU:HA	11	0.17
(1,1135)	1:X:134:GLU:H	1:X:127:VAL:H	11	0.17
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	9	0.17
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	11	0.16
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	17	0.16
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	6	0.16
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	17	0.16
(5,62)	1:X:127:VAL:C	1:X:134:GLU:H	18	0.16
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	3	0.16
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	17	0.16
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	2	0.16
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	17	0.16
(5,46)	1:X:115:GLY:C	1:X:99:VAL:H	5	0.16
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	6	0.16
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	7	0.16
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	8	0.16
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	17	0.16
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	17	0.16
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	6	0.16
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	4	0.16
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	2	0.16
(4,68)	1:X:57:GLN:O	1:X:61:VAL:N	8	0.16
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	12	0.16
(4,43)	1:X:39:TYR:O	1:X:25:GLY:H	13	0.16
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	13	0.16
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	17	0.16
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	16	0.16
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	7	0.16
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	17	0.16
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	19	0.16
(3,878)	1:X:133:ASP:N	1:X:128:THR:CG2	17	0.16
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	4	0.16
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	10	0.16
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	14	0.16
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	17	0.16
(3,749)	1:X:113:TRP:N	1:X:101:LEU:CD1	19	0.16
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	20	0.16
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	4	0.16
(3,610)	1:X:94:PHE:N	1:X:85:LEU:CD1	14	0.16
(3,556)	1:X:87:THR:N	1:X:86:PHE:CB	20	0.16
(3,554)	1:X:85:LEU:CA	1:X:87:THR:N	4	0.16
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	11	0.16
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	20	0.16
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	1	0.16
(3,484)	1:X:71:ALA:N	1:X:70:VAL:CB	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,304)	1:X:51:CYS:N	1:X:40:ILE:CD1	5	0.16
(3,266)	1:X:45:GLY:N	1:X:43:GLU:CG	15	0.16
(3,239)	1:X:41:ASP:N	1:X:16:VAL:CG1	8	0.16
(3,130)	1:X:25:GLY:N	1:X:23:LEU:CG	1	0.16
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	5	0.16
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	18	0.16
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	13	0.16
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	19	0.16
(1,931)	1:X:109:ASN:HD21	1:X:109:ASN:HB3	20	0.16
(1,864)	1:X:101:LEU:H	1:X:114:GLN:HB2	10	0.16
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	13	0.16
(1,658)	1:X:76:VAL:HB	1:X:55:SER:H	4	0.16
(1,624)	1:X:73:ASN:H	1:X:36:LEU:HB2	18	0.16
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	2	0.16
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	6	0.16
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	15	0.16
(1,531)	1:X:62:LEU:HB2	1:X:61:VAL:H	11	0.16
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	2	0.16
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	12	0.16
(1,51)	1:X:10:GLU:H	1:X:7:LYS:HA	2	0.16
(1,51)	1:X:10:GLU:H	1:X:7:LYS:HA	3	0.16
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	11	0.16
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	18	0.16
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	11	0.16
(1,392)	1:X:50:ASP:HA	1:X:53:ASP:H	19	0.16
(1,246)	1:X:37:ARG:H	1:X:29:ILE:H	1	0.16
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	14	0.16
(1,204)	1:X:33:THR:H	1:X:32:ARG:HG2	4	0.16
(1,177)	1:X:29:ILE:HA	1:X:35:THR:H	5	0.16
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	8	0.16
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	17	0.16
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	9	0.16
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	11	0.16
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	16	0.16
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	6	0.16
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	7	0.16
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	19	0.16
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	20	0.16
(1,1048)	1:X:125:ILE:H	1:X:138:LEU:HG	19	0.16
(1,1030)	1:X:124:MET:HG3	1:X:138:LEU:H	10	0.16
(5,9)	1:X:13:THR:C	1:X:17:GLU:H	20	0.15
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	1	0.15
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	20	0.15
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	11	0.15
(5,62)	1:X:127:VAL:C	1:X:134:GLU:H	10	0.15
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	12	0.15
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	20	0.15
(5,6)	1:X:9:THR:C	1:X:13:THR:H	19	0.15
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	17	0.15
(5,52)	1:X:100:THR:C	1:X:145:ASN:H	6	0.15
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	11	0.15
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	18	0.15
(5,46)	1:X:115:GLY:C	1:X:99:VAL:H	4	0.15
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	5	0.15
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	18	0.15
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	1	0.15
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	2	0.15
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	5	0.15
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	15	0.15
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	8	0.15
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	17	0.15
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	20	0.15
(5,23)	1:X:41:ASP:C	1:X:23:LEU:H	6	0.15
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	14	0.15
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	12	0.15
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	5	0.15
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	14	0.15
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	14	0.15
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	8	0.15
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	18	0.15
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	17	0.15
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	1	0.15
(4,73)	1:X:60:ALA:O	1:X:64:VAL:H	16	0.15
(4,72)	1:X:59:SER:O	1:X:63:ASP:N	4	0.15
(4,21)	1:X:15:PRO:O	1:X:19:LEU:H	11	0.15
(4,21)	1:X:15:PRO:O	1:X:19:LEU:H	18	0.15
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	19	0.15
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	1	0.15
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	12	0.15
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	17	0.15
(4,1)	1:X:4:LEU:O	1:X:8:LEU:H	6	0.15
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	20	0.15
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,921)	1:X:141:ILE:N	1:X:101:LEU:CD2	11	0.15
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	1	0.15
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	7	0.15
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	9	0.15
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	12	0.15
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	2	0.15
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	9	0.15
(3,765)	1:X:115:GLY:N	1:X:129:VAL:CG2	5	0.15
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	16	0.15
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	2	0.15
(3,666)	1:X:94:PHE:N	1:X:117:ILE:CG2	4	0.15
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	4	0.15
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	7	0.15
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	3	0.15
(3,563)	1:X:88:ALA:N	1:X:87:THR:CG2	13	0.15
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	17	0.15
(3,484)	1:X:71:ALA:N	1:X:70:VAL:CB	20	0.15
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	9	0.15
(3,212)	1:X:37:ARG:N	1:X:27:GLU:CB	1	0.15
(3,209)	1:X:36:LEU:N	1:X:74:LEU:CD2	20	0.15
(3,208)	1:X:36:LEU:N	1:X:37:ARG:CG	3	0.15
(3,197)	1:X:35:THR:N	1:X:34:SER:CB	13	0.15
(3,189)	1:X:34:SER:N	1:X:33:THR:CB	3	0.15
(3,124)	1:X:24:VAL:N	1:X:23:LEU:CD1	15	0.15
(2,29)	1:X:29:ILE:CD1	1:X:35:THR:CG2	15	0.15
(2,23)	1:X:16:VAL:CG2	1:X:54:VAL:CG2	5	0.15
(2,121)	1:X:138:LEU:CD1	1:X:141:ILE:CD1	5	0.15
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	15	0.15
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	16	0.15
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	16	0.15
(1,972)	1:X:116:VAL:HB	1:X:128:THR:H	13	0.15
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	11	0.15
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	15	0.15
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	20	0.15
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	4	0.15
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	9	0.15
(1,595)	1:X:66:ASP:HB2	1:X:72:TYR:H	3	0.15
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	5	0.15
(1,575)	1:X:65:GLU:HB2	1:X:64:VAL:H	19	0.15
(1,511)	1:X:59:SER:H	1:X:62:LEU:HB3	3	0.15
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	14	0.15
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,493)	1:X:58:VAL:CB	1:X:60:ALA:H	13	0.15
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	6	0.15
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	13	0.15
(1,453)	1:X:56:HIS:HB3	1:X:55:SER:H	18	0.15
(1,204)	1:X:33:THR:H	1:X:32:ARG:HG2	11	0.15
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	1	0.15
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	10	0.15
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	7	0.15
(1,1191)	1:X:141:ILE:H	1:X:138:LEU:HA	14	0.15
(1,1190)	1:X:141:ILE:HG13	1:X:137:ALA:H	4	0.15
(1,1109)	1:X:130:GLU:HB2	1:X:132:LYS:H	12	0.15
(1,1087)	1:X:128:THR:HA	1:X:134:GLU:H	9	0.15
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	6	0.15
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	8	0.15
(1,1028)	1:X:124:MET:H	1:X:138:LEU:HG	15	0.15
(1,1007)	1:X:122:GLY:H	1:X:124:MET:H	9	0.15
(1,1007)	1:X:122:GLY:H	1:X:124:MET:H	14	0.15
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	6	0.14
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	6	0.14
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	5	0.14
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	19	0.14
(5,63)	1:X:128:THR:C	1:X:116:VAL:H	13	0.14
(5,63)	1:X:128:THR:C	1:X:116:VAL:H	19	0.14
(5,59)	1:X:124:MET:C	1:X:121:ASP:H	13	0.14
(5,56)	1:X:116:VAL:C	1:X:128:THR:H	15	0.14
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	3	0.14
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	6	0.14
(5,49)	1:X:97:GLU:C	1:X:117:ILE:H	17	0.14
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	11	0.14
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	12	0.14
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	11	0.14
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	18	0.14
(5,39)	1:X:73:ASN:C	1:X:36:LEU:H	19	0.14
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	3	0.14
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	8	0.14
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	16	0.14
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	8	0.14
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	10	0.14
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	18	0.14
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	2	0.14
(5,24)	1:X:47:ASN:C	1:X:50:ASP:H	11	0.14
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	1	0.14
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	3	0.14
(5,12)	1:X:23:LEU:C	1:X:41:ASP:H	8	0.14
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	1	0.14
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	9	0.14
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	10	0.14
(4,88)	1:X:89:GLU:O	1:X:93:ARG:N	10	0.14
(4,67)	1:X:57:GLN:O	1:X:61:VAL:H	4	0.14
(4,65)	1:X:56:HIS:O	1:X:60:ALA:H	9	0.14
(4,59)	1:X:53:ASP:O	1:X:57:GLN:H	2	0.14
(4,54)	1:X:50:ASP:O	1:X:54:VAL:H	5	0.14
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	14	0.14
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	6	0.14
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	14	0.14
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	13	0.14
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	10	0.14
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	15	0.14
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	20	0.14
(3,906)	1:X:137:ALA:N	1:X:141:ILE:CD1	16	0.14
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	5	0.14
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	3	0.14
(3,632)	1:X:97:GLU:N	1:X:94:PHE:CA	7	0.14
(3,554)	1:X:85:LEU:CA	1:X:87:THR:N	10	0.14
(3,545)	1:X:81:LEU:CD1	1:X:82:ASP:N	10	0.14
(3,534)	1:X:80:GLY:N	1:X:79:PRO:CB	11	0.14
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	12	0.14
(3,476)	1:X:68:ILE:N	1:X:68:ILE:CD1	5	0.14
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	20	0.14
(3,197)	1:X:35:THR:N	1:X:34:SER:CB	17	0.14
(3,189)	1:X:34:SER:N	1:X:33:THR:CB	5	0.14
(3,124)	1:X:24:VAL:N	1:X:23:LEU:CD1	1	0.14
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	1	0.14
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	4	0.14
(2,121)	1:X:138:LEU:CD1	1:X:141:ILE:CD1	9	0.14
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	16	0.14
(1,96)	1:X:19:LEU:H	1:X:16:VAL:HA	2	0.14
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	1	0.14
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	5	0.14
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	20	0.14
(1,896)	1:X:105:MET:HA	1:X:106:ALA:H	18	0.14
(1,818)	1:X:146:LEU:H	1:X:85:LEU:H	16	0.14
(1,80)	1:X:14:ALA:H	1:X:11:MET:HA	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	8	0.14
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	18	0.14
(1,671)	1:X:77:SER:H	1:X:39:TYR:HA	16	0.14
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	3	0.14
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	7	0.14
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	16	0.14
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	19	0.14
(1,59)	1:X:12:ILE:H	1:X:9:THR:HA	4	0.14
(1,58)	1:X:12:ILE:H	1:X:9:THR:H	14	0.14
(1,51)	1:X:10:GLU:H	1:X:7:LYS:HA	10	0.14
(1,5)	1:X:5:GLU:H	1:X:4:LEU:HG	1	0.14
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	10	0.14
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	14	0.14
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	15	0.14
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	20	0.14
(1,315)	1:X:44:ASP:H	1:X:43:GLU:HG2	15	0.14
(1,296)	1:X:41:ASP:H	1:X:22:GLU:HB3	6	0.14
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	4	0.14
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	15	0.14
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	19	0.14
(1,173)	1:X:29:ILE:H	1:X:35:THR:H	3	0.14
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	18	0.14
(1,1191)	1:X:141:ILE:H	1:X:138:LEU:HA	17	0.14
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	16	0.14
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	2	0.14
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	3	0.14
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	15	0.14
(1,1031)	1:X:124:MET:HA	1:X:138:LEU:H	18	0.14
(1,1018)	1:X:123:GLU:H	1:X:124:MET:HB2	10	0.14
(1,1018)	1:X:123:GLU:H	1:X:124:MET:HB2	20	0.14
(1,1007)	1:X:122:GLY:H	1:X:124:MET:H	20	0.14
(5,9)	1:X:13:THR:C	1:X:17:GLU:H	15	0.13
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	14	0.13
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	16	0.13
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	8	0.13
(5,68)	1:X:137:ALA:C	1:X:140:ASN:H	20	0.13
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	15	0.13
(5,62)	1:X:127:VAL:C	1:X:134:GLU:H	5	0.13
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	20	0.13
(5,6)	1:X:9:THR:C	1:X:13:THR:H	13	0.13
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	15	0.13
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	12	0.13
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	11	0.13
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	14	0.13
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	14	0.13
(5,27)	1:X:50:ASP:C	1:X:54:VAL:H	13	0.13
(5,24)	1:X:47:ASN:C	1:X:50:ASP:H	5	0.13
(5,24)	1:X:47:ASN:C	1:X:50:ASP:H	12	0.13
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	15	0.13
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	8	0.13
(5,20)	1:X:37:ARG:C	1:X:27:GLU:H	10	0.13
(5,2)	1:X:5:GLU:C	1:X:9:THR:H	16	0.13
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	9	0.13
(5,18)	1:X:35:THR:C	1:X:29:ILE:H	15	0.13
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	9	0.13
(5,10)	1:X:14:ALA:C	1:X:18:ALA:H	7	0.13
(4,89)	1:X:90:HIS:O	1:X:94:PHE:H	7	0.13
(4,87)	1:X:89:GLU:O	1:X:93:ARG:H	17	0.13
(4,82)	1:X:77:SER:O	1:X:40:ILE:N	9	0.13
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	18	0.13
(4,76)	1:X:71:ALA:O	1:X:34:SER:N	1	0.13
(4,71)	1:X:59:SER:O	1:X:63:ASP:H	20	0.13
(4,51)	1:X:49:ASP:O	1:X:53:ASP:N	20	0.13
(4,47)	1:X:47:ASN:O	1:X:50:ASP:H	11	0.13
(4,2)	1:X:4:LEU:O	1:X:8:LEU:N	19	0.13
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	16	0.13
(4,108)	1:X:102:VAL:O	1:X:143:LYS:N	18	0.13
(3,930)	1:X:142:GLN:N	1:X:141:ILE:CG2	18	0.13
(3,92)	1:X:19:LEU:N	1:X:18:ALA:CB	20	0.13
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	6	0.13
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	16	0.13
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	17	0.13
(3,797)	1:X:121:ASP:N	1:X:120:VAL:CB	9	0.13
(3,778)	1:X:118:LYS:N	1:X:117:ILE:CG2	20	0.13
(3,663)	1:X:91:TYR:N	1:X:125:ILE:CD1	11	0.13
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	8	0.13
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	17	0.13
(3,651)	1:X:115:GLY:N	1:X:99:VAL:CG2	5	0.13
(3,587)	1:X:91:TYR:N	1:X:85:LEU:CD1	14	0.13
(3,566)	1:X:88:ALA:N	1:X:89:GLU:CB	9	0.13
(3,544)	1:X:81:LEU:CB	1:X:82:ASP:N	2	0.13
(3,534)	1:X:80:GLY:N	1:X:79:PRO:CB	14	0.13
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,452)	1:X:65:GLU:N	1:X:64:VAL:CB	20	0.13
(3,386)	1:X:58:VAL:N	1:X:60:ALA:CB	6	0.13
(3,208)	1:X:36:LEU:N	1:X:37:ARG:CG	13	0.13
(3,208)	1:X:36:LEU:N	1:X:37:ARG:CG	14	0.13
(3,159)	1:X:29:ILE:N	1:X:28:PHE:CB	13	0.13
(3,145)	1:X:27:GLU:N	1:X:26:ILE:CD1	12	0.13
(2,22)	1:X:16:VAL:CG1	1:X:54:VAL:CG2	12	0.13
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	19	0.13
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	17	0.13
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	6	0.13
(1,989)	1:X:120:VAL:HA	1:X:124:MET:H	17	0.13
(1,947)	1:X:112:LYS:HA	1:X:103:LEU:H	13	0.13
(1,931)	1:X:109:ASN:HD21	1:X:109:ASN:HB3	9	0.13
(1,680)	1:X:78:SER:HA	1:X:40:ILE:H	2	0.13
(1,640)	1:X:74:LEU:HD21	1:X:39:TYR:H	16	0.13
(1,640)	1:X:74:LEU:HD22	1:X:39:TYR:H	16	0.13
(1,640)	1:X:74:LEU:HD23	1:X:39:TYR:H	16	0.13
(1,609)	1:X:71:ALA:H	1:X:70:VAL:HA	16	0.13
(1,602)	1:X:68:ILE:HG12	1:X:68:ILE:H	18	0.13
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	18	0.13
(1,575)	1:X:65:GLU:HB2	1:X:64:VAL:H	18	0.13
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	10	0.13
(1,531)	1:X:62:LEU:HB2	1:X:61:VAL:H	18	0.13
(1,496)	1:X:58:VAL:HA	1:X:61:VAL:H	6	0.13
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	7	0.13
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	15	0.13
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	14	0.13
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	15	0.13
(1,364)	1:X:48:VAL:HA	1:X:51:CYS:H	4	0.13
(1,241)	1:X:37:ARG:H	1:X:27:GLU:HB2	12	0.13
(1,237)	1:X:36:LEU:CG	1:X:74:LEU:H	18	0.13
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	20	0.13
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	19	0.13
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	16	0.13
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	15	0.13
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	5	0.13
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	13	0.13
(1,123)	1:X:23:LEU:CG	1:X:24:VAL:H	14	0.13
(1,1136)	1:X:134:GLU:H	1:X:127:VAL:HB	16	0.13
(5,69)	1:X:143:LYS:C	1:X:102:VAL:H	12	0.12
(5,67)	1:X:136:PHE:C	1:X:125:ILE:H	2	0.12
(5,63)	1:X:128:THR:C	1:X:116:VAL:H	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	1	0.12
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	12	0.12
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	16	0.12
(5,56)	1:X:116:VAL:C	1:X:128:THR:H	6	0.12
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	14	0.12
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	19	0.12
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	16	0.12
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	13	0.12
(5,42)	1:X:87:THR:C	1:X:91:TYR:H	9	0.12
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	4	0.12
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	9	0.12
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	12	0.12
(5,38)	1:X:71:ALA:C	1:X:34:SER:H	19	0.12
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	3	0.12
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	10	0.12
(5,36)	1:X:59:SER:C	1:X:63:ASP:H	12	0.12
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	2	0.12
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	18	0.12
(5,33)	1:X:56:HIS:C	1:X:60:ALA:H	12	0.12
(5,31)	1:X:54:VAL:C	1:X:58:VAL:H	2	0.12
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	6	0.12
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	16	0.12
(5,17)	1:X:34:SER:C	1:X:73:ASN:H	16	0.12
(4,81)	1:X:77:SER:O	1:X:40:ILE:H	11	0.12
(4,67)	1:X:57:GLN:O	1:X:61:VAL:H	3	0.12
(4,52)	1:X:49:ASP:O	1:X:53:ASP:H	11	0.12
(4,44)	1:X:39:TYR:O	1:X:25:GLY:N	13	0.12
(4,29)	1:X:29:ILE:O	1:X:35:THR:N	5	0.12
(4,21)	1:X:15:PRO:O	1:X:19:LEU:H	20	0.12
(4,16)	1:X:12:ILE:O	1:X:16:VAL:H	16	0.12
(4,15)	1:X:12:ILE:O	1:X:16:VAL:N	9	0.12
(4,117)	1:X:124:MET:O	1:X:121:ASP:H	1	0.12
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	14	0.12
(3,92)	1:X:19:LEU:N	1:X:18:ALA:CB	11	0.12
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	18	0.12
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	8	0.12
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	4	0.12
(3,717)	1:X:105:MET:N	1:X:104:ARG:CD	20	0.12
(3,665)	1:X:92:ALA:N	1:X:125:ILE:CD1	2	0.12
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	7	0.12
(3,652)	1:X:117:ILE:CD1	1:X:96:GLY:N	12	0.12
(3,566)	1:X:88:ALA:N	1:X:89:GLU:CB	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,566)	1:X:88:ALA:N	1:X:89:GLU:CB	18	0.12
(3,556)	1:X:87:THR:N	1:X:86:PHE:CB	5	0.12
(3,531)	1:X:79:PRO:CD	1:X:40:ILE:N	14	0.12
(3,502)	1:X:75:GLU:N	1:X:74:LEU:CG	6	0.12
(3,482)	1:X:71:ALA:N	1:X:70:VAL:CG2	16	0.12
(3,425)	1:X:62:LEU:N	1:X:61:VAL:CG2	13	0.12
(3,371)	1:X:57:GLN:N	1:X:54:VAL:CG2	12	0.12
(3,366)	1:X:56:HIS:N	1:X:57:GLN:CB	8	0.12
(3,366)	1:X:56:HIS:N	1:X:57:GLN:CB	10	0.12
(3,289)	1:X:49:ASP:N	1:X:46:ILE:CG2	10	0.12
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	3	0.12
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	12	0.12
(3,241)	1:X:41:ASP:N	1:X:21:PHE:CB	16	0.12
(3,189)	1:X:34:SER:N	1:X:33:THR:CB	1	0.12
(3,189)	1:X:34:SER:N	1:X:33:THR:CB	10	0.12
(3,151)	1:X:27:GLU:N	1:X:37:ARG:CB	1	0.12
(2,6)	1:X:8:LEU:CG	1:X:26:ILE:CD1	8	0.12
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD1	5	0.12
(2,15)	1:X:12:ILE:CD1	1:X:62:LEU:CD2	5	0.12
(2,107)	1:X:120:VAL:CG2	1:X:125:ILE:CD1	11	0.12
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	8	0.12
(1,997)	1:X:121:ASP:H	1:X:124:MET:H	17	0.12
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	2	0.12
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	4	0.12
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	17	0.12
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	16	0.12
(1,822)	1:X:85:LEU:H	1:X:145:ASN:HA	6	0.12
(1,811)	1:X:117:ILE:HB	1:X:96:GLY:H	18	0.12
(1,787)	1:X:95:VAL:HB	1:X:97:GLU:H	7	0.12
(1,674)	1:X:77:SER:H	1:X:76:VAL:CB	2	0.12
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	6	0.12
(1,658)	1:X:76:VAL:HB	1:X:55:SER:H	12	0.12
(1,606)	1:X:69:THR:HA	1:X:70:VAL:H	20	0.12
(1,598)	1:X:67:PRO:HA	1:X:68:ILE:H	2	0.12
(1,596)	1:X:67:PRO:HD2	1:X:66:ASP:H	8	0.12
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	14	0.12
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	4	0.12
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	5	0.12
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	7	0.12
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	9	0.12
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	12	0.12
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	16	0.12
(1,532)	1:X:62:LEU:H	1:X:61:VAL:CB	4	0.12
(1,523)	1:X:61:VAL:HA	1:X:64:VAL:H	14	0.12
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	8	0.12
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	2	0.12
(1,411)	1:X:52:ALA:HA	1:X:55:SER:H	4	0.12
(1,324)	1:X:45:GLY:H	1:X:42:SER:H	6	0.12
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	1	0.12
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	3	0.12
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	5	0.12
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	8	0.12
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	16	0.12
(1,204)	1:X:33:THR:H	1:X:32:ARG:HG2	12	0.12
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	14	0.12
(1,179)	1:X:29:ILE:H	1:X:36:LEU:H	9	0.12
(1,167)	1:X:29:ILE:H	1:X:28:PHE:CZ	3	0.12
(1,146)	1:X:25:GLY:H	1:X:39:TYR:HB2	8	0.12
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	1	0.12
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	7	0.12
(1,126)	1:X:23:LEU:H	1:X:25:GLY:H	20	0.12
(1,1162)	1:X:137:ALA:HA	1:X:125:ILE:H	5	0.12
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	10	0.12
(1,1079)	1:X:127:VAL:H	1:X:136:PHE:H	18	0.12
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	18	0.12
(1,1020)	1:X:123:GLU:HA	1:X:138:LEU:H	6	0.12
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	5	0.11
(5,70)	1:X:145:ASN:C	1:X:100:THR:H	20	0.11
(5,7)	1:X:10:GLU:C	1:X:14:ALA:H	6	0.11
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	3	0.11
(5,66)	1:X:134:GLU:C	1:X:127:VAL:H	10	0.11
(5,61)	1:X:126:THR:C	1:X:118:LYS:H	17	0.11
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	2	0.11
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	16	0.11
(5,60)	1:X:125:ILE:C	1:X:136:PHE:H	18	0.11
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	6	0.11
(5,57)	1:X:119:ALA:C	1:X:126:THR:H	10	0.11
(5,53)	1:X:101:LEU:C	1:X:113:TRP:H	10	0.11
(5,51)	1:X:99:VAL:C	1:X:115:GLY:H	15	0.11
(5,5)	1:X:8:LEU:C	1:X:12:ILE:H	18	0.11
(5,49)	1:X:97:GLU:C	1:X:117:ILE:H	3	0.11
(5,46)	1:X:115:GLY:C	1:X:99:VAL:H	11	0.11
(5,45)	1:X:90:HIS:C	1:X:94:PHE:H	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(5,44)	1:X:89:GLU:C	1:X:93:ARG:H	4	0.11
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	4	0.11
(5,43)	1:X:88:ALA:C	1:X:92:ALA:H	15	0.11
(5,40)	1:X:75:GLU:C	1:X:38:ILE:H	10	0.11
(5,4)	1:X:7:LYS:C	1:X:11:MET:H	16	0.11
(5,37)	1:X:60:ALA:C	1:X:64:VAL:H	2	0.11
(5,35)	1:X:58:VAL:C	1:X:62:LEU:H	7	0.11
(5,30)	1:X:53:ASP:C	1:X:57:GLN:H	4	0.11
(5,3)	1:X:6:GLN:C	1:X:10:GLU:H	18	0.11
(5,29)	1:X:52:ALA:C	1:X:56:HIS:H	9	0.11
(5,23)	1:X:41:ASP:C	1:X:23:LEU:H	11	0.11
(5,22)	1:X:39:TYR:C	1:X:25:GLY:H	19	0.11
(5,21)	1:X:38:ILE:C	1:X:77:SER:H	16	0.11
(5,2)	1:X:5:GLU:C	1:X:9:THR:H	6	0.11
(5,11)	1:X:15:PRO:C	1:X:19:LEU:H	15	0.11
(4,95)	1:X:147:VAL:O	1:X:98:GLU:N	10	0.11
(4,88)	1:X:89:GLU:O	1:X:93:ARG:N	3	0.11
(4,68)	1:X:57:GLN:O	1:X:61:VAL:N	4	0.11
(4,65)	1:X:56:HIS:O	1:X:60:ALA:H	18	0.11
(4,118)	1:X:124:MET:O	1:X:121:ASP:N	1	0.11
(4,117)	1:X:124:MET:O	1:X:121:ASP:H	10	0.11
(4,115)	1:X:121:ASP:O	1:X:124:MET:H	14	0.11
(4,107)	1:X:102:VAL:O	1:X:143:LYS:H	18	0.11
(4,1)	1:X:4:LEU:O	1:X:8:LEU:H	19	0.11
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	1	0.11
(3,922)	1:X:141:ILE:N	1:X:140:ASN:CB	2	0.11
(3,92)	1:X:19:LEU:N	1:X:18:ALA:CB	1	0.11
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	8	0.11
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	10	0.11
(3,909)	1:X:138:LEU:N	1:X:137:ALA:CB	11	0.11
(3,878)	1:X:133:ASP:N	1:X:128:THR:CG2	13	0.11
(3,813)	1:X:124:MET:N	1:X:120:VAL:CG2	19	0.11
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	2	0.11
(3,806)	1:X:122:GLY:N	1:X:121:ASP:CB	13	0.11
(3,804)	1:X:121:ASP:N	1:X:125:ILE:CD1	3	0.11
(3,760)	1:X:115:GLY:N	1:X:100:THR:CG2	18	0.11
(3,749)	1:X:113:TRP:N	1:X:101:LEU:CD1	5	0.11
(3,716)	1:X:104:ARG:N	1:X:105:MET:CB	3	0.11
(3,667)	1:X:95:VAL:N	1:X:117:ILE:CG2	4	0.11
(3,666)	1:X:94:PHE:N	1:X:117:ILE:CG2	19	0.11
(3,664)	1:X:92:ALA:N	1:X:120:VAL:CG1	12	0.11
(3,583)	1:X:90:HIS:N	1:X:89:GLU:CB	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,366)	1:X:56:HIS:N	1:X:57:GLN:CB	17	0.11
(3,333)	1:X:54:VAL:N	1:X:40:ILE:CD1	15	0.11
(3,315)	1:X:52:ALA:N	1:X:48:VAL:CA	4	0.11
(3,315)	1:X:52:ALA:N	1:X:48:VAL:CA	15	0.11
(3,272)	1:X:46:ILE:N	1:X:44:ASP:CB	4	0.11
(3,239)	1:X:41:ASP:N	1:X:16:VAL:CG1	13	0.11
(2,64)	1:X:61:VAL:CG1	1:X:15:PRO:CD	17	0.11
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	3	0.11
(1,992)	1:X:121:ASP:H	1:X:120:VAL:CB	12	0.11
(1,96)	1:X:19:LEU:H	1:X:16:VAL:HA	7	0.11
(1,930)	1:X:109:ASN:HD21	1:X:109:ASN:HB2	5	0.11
(1,929)	1:X:109:ASN:H	1:X:107:VAL:H	13	0.11
(1,924)	1:X:108:GLN:HA	1:X:109:ASN:H	9	0.11
(1,662)	1:X:76:VAL:H	1:X:75:GLU:HG3	9	0.11
(1,609)	1:X:71:ALA:H	1:X:70:VAL:HA	2	0.11
(1,606)	1:X:69:THR:HA	1:X:70:VAL:H	10	0.11
(1,598)	1:X:67:PRO:HA	1:X:68:ILE:H	6	0.11
(1,574)	1:X:65:GLU:H	1:X:64:VAL:CB	13	0.11
(1,566)	1:X:64:VAL:HB	1:X:64:VAL:H	1	0.11
(1,566)	1:X:64:VAL:HB	1:X:64:VAL:H	10	0.11
(1,566)	1:X:64:VAL:HB	1:X:64:VAL:H	20	0.11
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	3	0.11
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	6	0.11
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	8	0.11
(1,560)	1:X:63:ASP:HA	1:X:64:VAL:H	19	0.11
(1,532)	1:X:62:LEU:H	1:X:61:VAL:CB	18	0.11
(1,494)	1:X:58:VAL:HB	1:X:60:ALA:H	17	0.11
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	11	0.11
(1,477)	1:X:58:VAL:HB	1:X:56:HIS:H	14	0.11
(1,466)	1:X:57:GLN:H	1:X:57:GLN:HG3	9	0.11
(1,441)	1:X:55:SER:H	1:X:53:ASP:HB3	3	0.11
(1,400)	1:X:52:ALA:H	1:X:48:VAL:CB	17	0.11
(1,392)	1:X:50:ASP:HA	1:X:53:ASP:H	5	0.11
(1,283)	1:X:39:TYR:H	1:X:27:GLU:H	9	0.11
(1,25)	1:X:6:GLN:HA	1:X:7:LYS:H	3	0.11
(1,248)	1:X:37:ARG:H	1:X:36:LEU:HB3	4	0.11
(1,248)	1:X:37:ARG:H	1:X:36:LEU:HB3	5	0.11
(1,241)	1:X:37:ARG:H	1:X:27:GLU:HB2	9	0.11
(1,218)	1:X:34:SER:H	1:X:73:ASN:H	1	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	1	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	2	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	10	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	14	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	17	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	18	0.11
(1,206)	1:X:33:THR:H	1:X:32:ARG:HA	19	0.11
(1,2)	1:X:4:LEU:CG	1:X:5:GLU:H	17	0.11
(1,197)	1:X:31:GLY:H	1:X:30:ARG:HD2	12	0.11
(1,183)	1:X:30:ARG:H	1:X:29:ILE:CG2	9	0.11
(1,1077)	1:X:127:VAL:H	1:X:135:VAL:HA	19	0.11
(1,1058)	1:X:126:THR:H	1:X:125:ILE:CD1	16	0.11
(1,1016)	1:X:123:GLU:H	1:X:124:MET:HA	9	0.11

10 Dihedral-angle violation analysis [i](#)

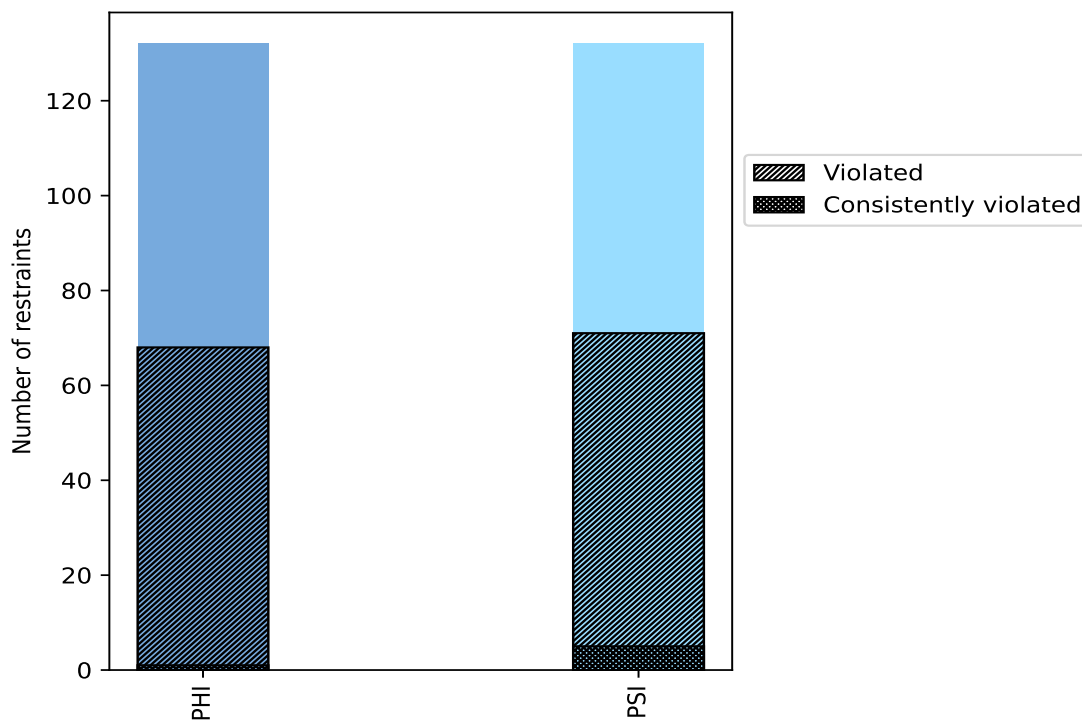
10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	132	50.0	68	51.5	25.8	1	0.8	0.4
PSI	132	50.0	71	53.8	26.9	5	3.8	1.9
Total	264	100.0	139	52.7	52.7	6	2.3	2.3

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ violated in all the models

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



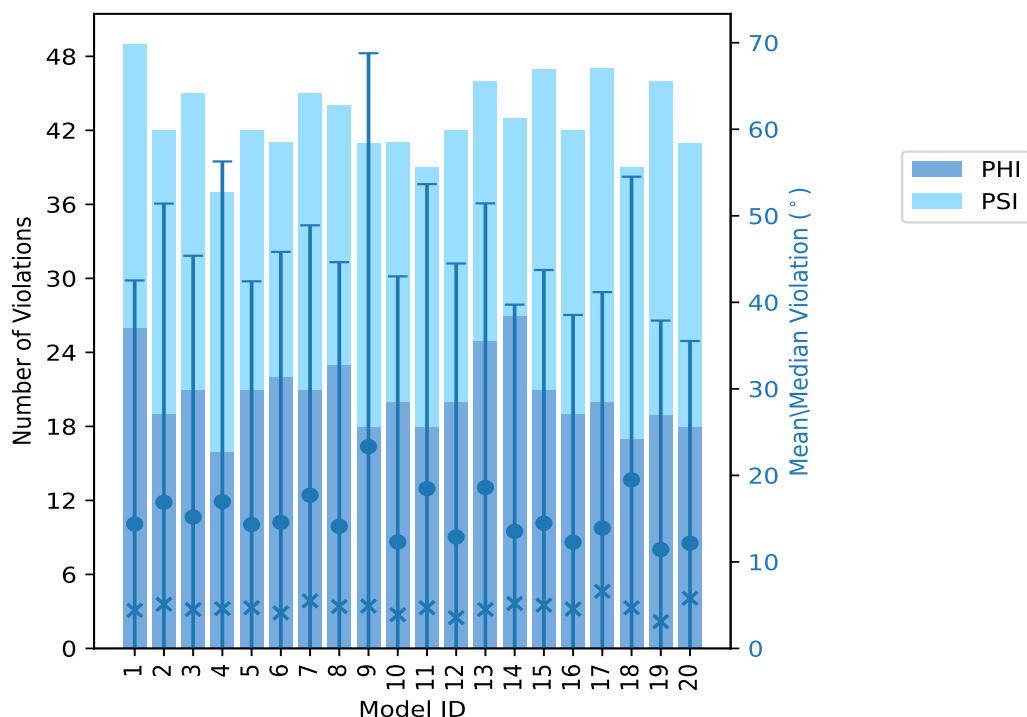
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model [i](#)

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	26	23	49	14.38	119.4	28.15	4.4
2	19	23	42	16.89	154.8	34.52	5.1
3	21	24	45	15.19	158.6	30.19	4.5
4	16	21	37	16.96	159.5	39.32	4.6
5	21	21	42	14.32	135.9	28.11	4.7
6	22	19	41	14.57	157.5	31.26	4.1
7	21	24	45	17.71	158.2	31.19	5.5
8	23	21	44	14.11	158.6	30.53	4.85
9	18	23	41	23.33	159.9	45.46	4.9
10	20	21	41	12.31	159.1	30.69	3.9
11	18	21	39	18.47	157.0	35.19	4.7
12	20	22	42	12.88	158.2	31.61	3.55
13	25	21	46	18.6	156.9	32.84	4.5
14	27	16	43	13.54	159.2	26.19	5.2
15	21	26	47	14.48	159.1	29.26	5.0
16	19	23	42	12.27	158.3	26.27	4.55
17	20	27	47	13.91	157.6	27.27	6.6
18	17	22	39	19.48	159.1	35.04	4.7
19	19	27	46	11.43	159.9	26.46	3.1
20	18	23	41	12.16	146.0	23.37	5.8

10.2.1 Bar graph : Dihedral violation statistics for each model [i](#)



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

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very 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 ensemble.

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
17	21	38	1	5.0
10	7	17	2	10.0
5	8	13	3	15.0
4	1	5	4	20.0
3	4	7	5	25.0
4	4	8	6	30.0
4	4	8	7	35.0
3	3	6	8	40.0
2	3	5	9	45.0
2	2	4	10	50.0
2	0	2	11	55.0

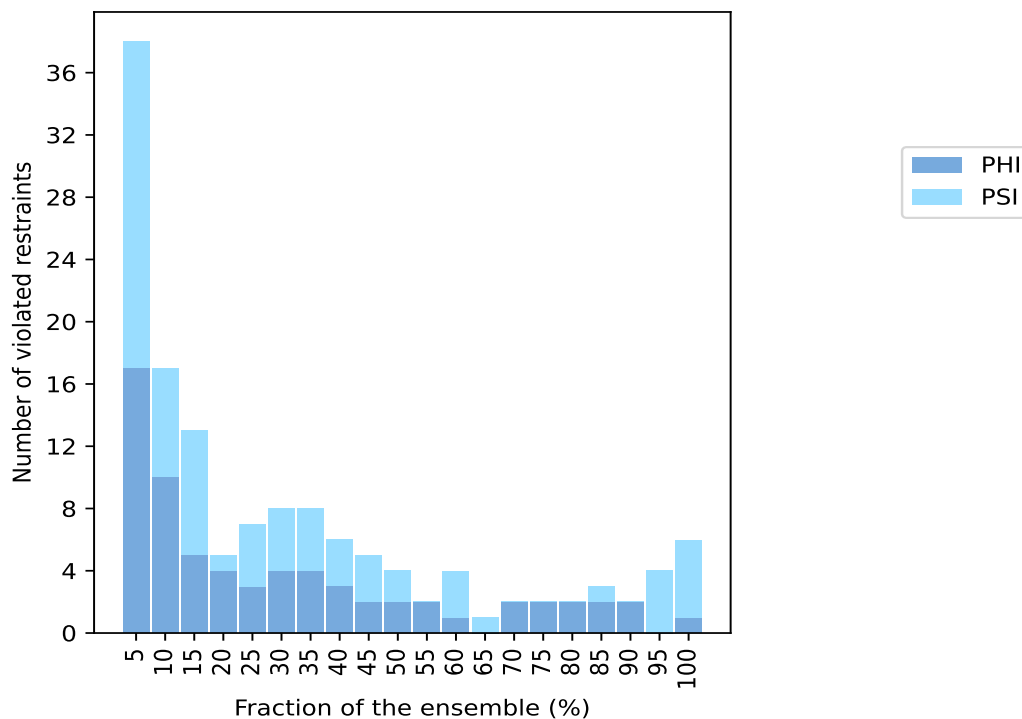
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Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
1	3	4	12	60.0
0	1	1	13	65.0
2	0	2	14	70.0
2	0	2	15	75.0
2	0	2	16	80.0
2	1	3	17	85.0
2	0	2	18	90.0
0	4	4	19	95.0
1	5	6	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)

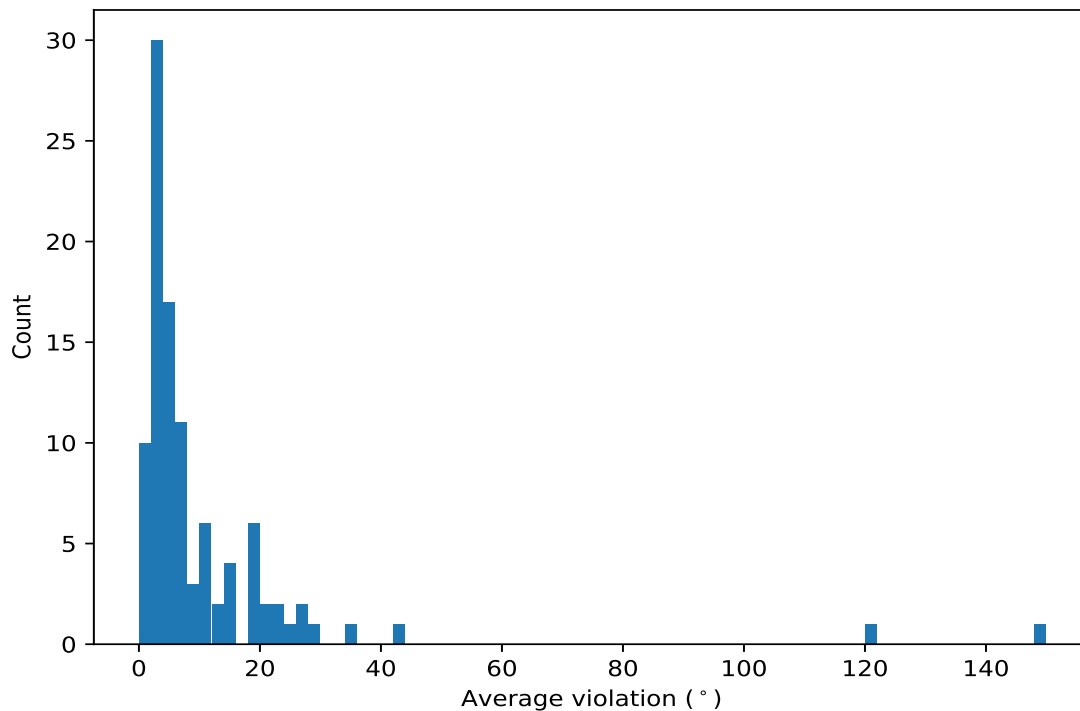


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	20	149.36	24.97	158.25
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	20	22.39	13.53	25.3
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	20	20.65	7.8	19.65
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	20	18.54	13.62	18.6
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	20	18.09	27.0	9.5
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	20	10.35	4.96	10.25
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	19	120.32	22.56	131.8
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	19	4.59	1.82	4.3
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	19	4.56	1.39	4.4
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	19	3.94	2.07	3.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	18	5.69	2.27	5.65
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	18	4.92	2.68	5.65
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	17	13.0	32.77	3.9
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	17	5.1	3.72	4.3
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	17	3.79	1.92	3.2
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	16	5.69	6.47	3.45
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	16	5.26	2.59	5.7
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	15	10.39	1.05	10.3
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	15	6.48	4.42	4.3
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	14	29.39	46.14	9.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	14	6.67	10.49	4.05
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	13	2.52	0.77	2.3
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	12	27.34	28.88	18.0
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	12	19.37	14.95	20.65
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	12	5.64	2.26	5.6
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	12	5.12	3.47	4.55
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	11	3.46	1.46	2.7
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	11	1.98	0.71	1.8
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	10	15.04	8.06	16.45
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	10	3.16	1.75	2.9
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	10	2.85	1.26	2.45
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	10	2.65	0.52	2.75
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	9	24.57	43.08	2.5
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	9	18.71	12.11	18.6
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	9	15.03	17.25	3.4
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	9	6.73	4.43	4.9
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	9	2.43	2.5	1.4
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	8	23.51	32.68	10.95
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	8	15.56	11.76	14.5
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	8	6.71	5.99	3.5
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	8	6.08	2.88	4.5
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	8	5.62	3.33	4.8
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	8	2.65	0.9	2.6
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	7	35.81	41.55	8.5
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	7	13.6	12.5	9.7
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	7	8.84	2.52	9.2
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	7	8.51	5.97	9.2
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	7	6.17	6.73	4.3
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	7	5.7	2.15	4.7
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	7	3.66	2.07	3.1
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	7	3.0	0.96	2.7
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	6	42.73	50.72	8.15
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	6	19.33	8.47	21.75
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	6	7.93	10.74	3.35
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	6	4.88	3.18	4.55
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	6	4.08	2.73	3.8
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	6	4.02	2.98	2.55
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	6	3.43	0.97	3.25
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	6	1.58	0.57	1.3
(1,124)	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	1:X:73:ASN:N	5	26.64	21.42	33.2
(1,125)	1:X:72:TYR:C	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	5	21.56	16.48	17.2
(1,109)	1:X:63:ASP:C	1:X:64:VAL:N	1:X:64:VAL:CA	1:X:64:VAL:C	5	3.72	0.84	3.8
(1,214)	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	1:X:122:GLY:N	5	3.34	0.95	3.2
(1,14)	1:X:11:MET:N	1:X:11:MET:CA	1:X:11:MET:C	1:X:12:ILE:N	5	2.7	1.12	2.9
(1,92)	1:X:55:SER:N	1:X:55:SER:CA	1:X:55:SER:C	1:X:56:HIS:N	5	2.58	1.07	3.0
(1,203)	1:X:115:GLY:C	1:X:116:VAL:N	1:X:116:VAL:CA	1:X:116:VAL:C	5	1.92	0.57	1.6
(1,47)	1:X:29:ILE:C	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	4	11.82	9.1	10.9
(1,71)	1:X:43:GLU:C	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	4	11.35	7.82	11.45
(1,161)	1:X:92:ALA:C	1:X:93:ARG:N	1:X:93:ARG:CA	1:X:93:ARG:C	4	4.1	3.25	2.45
(1,168)	1:X:96:GLY:N	1:X:96:GLY:CA	1:X:96:GLY:C	1:X:97:GLU:N	4	1.95	0.42	2.0
(1,181)	1:X:102:VAL:C	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	4	1.7	0.29	1.7

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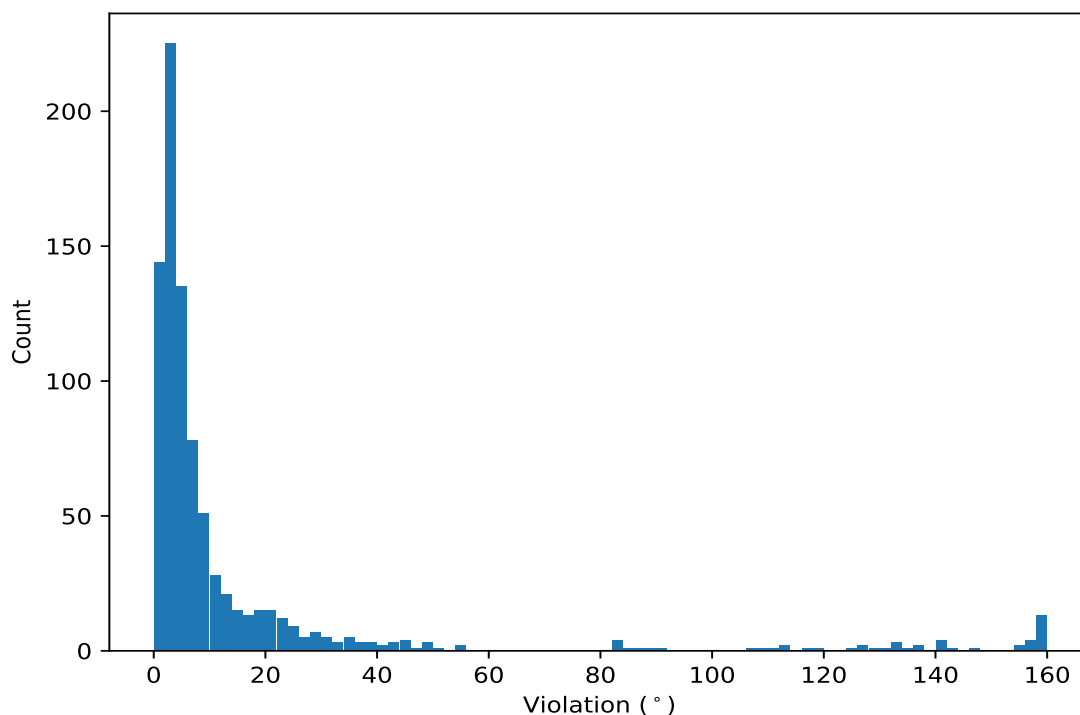
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,217)	1:X:124:MET:C	1:X:125:ILE:N	1:X:125:ILE:CA	1:X:125:ILE:C	3	19.03	6.49	22.8
(1,72)	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	1:X:45:GLY:N	3	11.1	5.71	13.6
(1,52)	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	1:X:35:THR:N	3	10.4	2.2	9.6
(1,53)	1:X:34:SER:C	1:X:35:THR:N	1:X:35:THR:CA	1:X:35:THR:C	3	7.0	4.49	6.8
(1,146)	1:X:84:PRO:N	1:X:84:PRO:CA	1:X:84:PRO:C	1:X:85:LEU:N	3	6.23	3.15	5.5
(1,236)	1:X:134:GLU:N	1:X:134:GLU:CA	1:X:134:GLU:C	1:X:135:VAL:N	3	3.0	0.86	3.4
(1,78)	1:X:48:VAL:N	1:X:48:VAL:CA	1:X:48:VAL:C	1:X:49:ASP:N	3	2.7	0.78	2.8
(1,67)	1:X:41:ASP:C	1:X:42:SER:N	1:X:42:SER:CA	1:X:42:SER:C	3	2.6	1.14	2.0
(1,221)	1:X:126:THR:C	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	3	2.43	0.81	2.9
(1,244)	1:X:138:LEU:N	1:X:138:LEU:CA	1:X:138:LEU:C	1:X:139:SER:N	3	2.4	1.42	1.5
(1,56)	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	1:X:37:ARG:N	3	1.93	0.74	1.8
(1,45)	1:X:28:PHE:C	1:X:29:ILE:N	1:X:29:ILE:CA	1:X:29:ILE:C	3	1.9	0.29	2.0
(1,86)	1:X:52:ALA:N	1:X:52:ALA:CA	1:X:52:ALA:C	1:X:53:ASP:N	3	1.8	0.78	1.3
(1,171)	1:X:97:GLU:C	1:X:98:GLU:N	1:X:98:GLU:CA	1:X:98:GLU:C	2	14.1	2.3	14.1
(1,1)	1:X:4:LEU:C	1:X:5:GLU:N	1:X:5:GLU:CA	1:X:5:GLU:C	2	9.6	5.7	9.6
(1,262)	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	1:X:148:PRO:N	2	6.75	2.15	6.75
(1,192)	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	1:X:111:ARG:N	2	6.3	3.6	6.3
(1,219)	1:X:125:ILE:C	1:X:126:THR:N	1:X:126:THR:CA	1:X:126:THR:C	2	5.45	1.95	5.45
(1,131)	1:X:75:GLU:C	1:X:76:VAL:N	1:X:76:VAL:CA	1:X:76:VAL:C	2	4.2	0.9	4.2
(1,147)	1:X:84:PRO:C	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	2	3.95	0.65	3.95
(1,196)	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	1:X:113:TRP:N	2	3.65	1.05	3.65
(1,55)	1:X:35:THR:C	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	2	2.95	1.85	2.95
(1,133)	1:X:76:VAL:C	1:X:77:SER:N	1:X:77:SER:CA	1:X:77:SER:C	2	2.85	0.05	2.85
(1,199)	1:X:113:TRP:C	1:X:114:GLN:N	1:X:114:GLN:CA	1:X:114:GLN:C	2	2.7	0.8	2.7
(1,66)	1:X:41:ASP:N	1:X:41:ASP:CA	1:X:41:ASP:C	1:X:42:SER:N	2	2.6	1.4	2.6
(1,231)	1:X:131:GLY:C	1:X:132:LYS:N	1:X:132:LYS:CA	1:X:132:LYS:C	2	2.6	0.1	2.6
(1,34)	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	1:X:22:GLU:N	2	2.25	0.95	2.25
(1,246)	1:X:139:SER:N	1:X:139:SER:CA	1:X:139:SER:C	1:X:140:ASN:N	2	2.2	0.8	2.2
(1,130)	1:X:75:GLU:N	1:X:75:GLU:CA	1:X:75:GLU:C	1:X:76:VAL:N	2	1.75	0.05	1.75
(1,207)	1:X:117:ILE:C	1:X:118:LYS:N	1:X:118:LYS:CA	1:X:118:LYS:C	2	1.45	0.05	1.45

¹ Number of violated models, ²Standard deviation, All angle values are in degree (°)

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

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



10.5.2 Table: All violated dihedral-angle restraints [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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,188)	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	1:X:109:ASN:N	9	159.9
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	19	159.9
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	4	159.5
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	9	159.2
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	14	159.2
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	10	159.1
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	15	159.1
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	18	159.1
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	3	158.6
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	8	158.6
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	16	158.3
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	7	158.2
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	12	158.2
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	17	157.6
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	6	157.5
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	11	157.0
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	13	156.9
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	2	154.8
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	4	154.7
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	20	146.0
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	18	143.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	9	141.6
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	8	141.6
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	2	141.4
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	12	141.2
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	13	137.7
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	3	136.4
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	5	135.9
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	9	132.9
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	6	132.8
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	10	132.0
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	5	131.8
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	4	128.4
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	11	127.8
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	7	127.4
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	9	124.4
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	1	119.4
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	11	117.2
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	17	113.6
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	2	112.6
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1	111.6
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	15	108.1
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	1	106.3
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	13	90.3
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	15	88.0
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	19	86.4
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	18	84.3
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	1	83.1
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	16	82.7
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	7	82.1
(1,118)	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1:X:69:THR:N	14	82.0
(1,124)	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	1:X:73:ASN:N	7	54.8
(1,116)	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1:X:68:ILE:N	20	54.2
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	13	51.2
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	19	49.2
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	2	48.1
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	18	48.0
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	6	46.8
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	13	44.8
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	5	44.5
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	13	44.4
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	18	44.2
(1,125)	1:X:72:TYR:C	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	7	42.8
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	3	42.7
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	11	42.6
(1,124)	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	1:X:73:ASN:N	13	41.6
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	18	40.4
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	1	39.4
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	13	39.1
(1,125)	1:X:72:TYR:C	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	13	38.9
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	18	37.3
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	11	37.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	11	36.1
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	15	35.5
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	12	35.5
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	17	35.4
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	3	34.5
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	12	34.5
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	3	33.5
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	6	33.4
(1,124)	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	1:X:73:ASN:N	15	33.2
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	17	31.8
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	14	31.3
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	7	30.5
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	17	30.2
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	8	30.2
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	6	29.8
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	5	29.4
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	20	29.3
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	7	28.6
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	15	28.4
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	11	28.2
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	14	28.0
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	13	27.8
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	6	27.6
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	14	26.5
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	3	26.2
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	3	26.0
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	2	25.6
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	8	25.0
(1,115)	1:X:66:ASP:C	1:X:67:PRO:N	1:X:67:PRO:CA	1:X:67:PRO:C	1	24.7
(1,217)	1:X:124:MET:C	1:X:125:ILE:N	1:X:125:ILE:CA	1:X:125:ILE:C	4	24.4
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	7	24.3
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	5	24.3
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	5	24.3
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	9	24.3
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	16	24.2
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	13	23.5
(1,47)	1:X:29:ILE:C	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	14	23.2
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	19	23.0
(1,217)	1:X:124:MET:C	1:X:125:ILE:N	1:X:125:ILE:CA	1:X:125:ILE:C	1	22.8
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	18	22.7
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	19	22.6
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	7	22.6
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	17	22.4
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	8	22.3
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	10	22.2
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	14	22.1
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	2	22.0
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	2	21.7
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	16	21.6
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	9	21.4
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	20	21.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	8	21.1
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	20	20.9
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	18	20.7
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	6	20.7
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	12	20.6
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	19	20.6
(1,71)	1:X:43:GLU:C	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	20	20.5
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	17	20.4
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	10	20.1
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	4	20.1
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	7	20.1
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	11	19.9
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	20	19.7
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	12	19.6
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	15	19.4
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	16	19.0
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	3	18.9
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	11	18.7
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	8	18.7
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	4	18.7
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	14	18.6
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	18	18.6
(1,47)	1:X:29:ILE:C	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1	18.3
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	9	18.3
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	17	18.2
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	8	18.2
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	3	17.9
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	5	17.9
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	16	17.9
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	7	17.7
(1,71)	1:X:43:GLU:C	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	16	17.5
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	19	17.3
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	9	17.3
(1,125)	1:X:72:TYR:C	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	15	17.2
(1,72)	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	1:X:45:GLY:N	16	16.5
(1,171)	1:X:97:GLU:C	1:X:98:GLU:N	1:X:98:GLU:CA	1:X:98:GLU:C	10	16.4
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	2	16.4
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	20	16.1
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	20	16.1
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	3	15.9
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	19	15.7
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	8	15.4
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	13	15.3
(1,1)	1:X:4:LEU:C	1:X:5:GLU:N	1:X:5:GLU:CA	1:X:5:GLU:C	15	15.3
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	9	15.1
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	20	14.8
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	14	14.8
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	7	14.7
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	16	14.7
(1,180)	1:X:102:VAL:N	1:X:102:VAL:CA	1:X:102:VAL:C	1:X:103:LEU:N	9	14.6
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	17	14.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	14	14.5
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	9	14.4
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	5	14.4
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	14	13.9
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	5	13.9
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	3	13.7
(1,72)	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	1:X:45:GLY:N	20	13.6
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	6	13.5
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	5	13.5
(1,52)	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	1:X:35:THR:N	5	13.4
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	7	13.4
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	16	13.3
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	18	13.1
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	17	13.0
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	15	12.7
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	17	12.7
(1,53)	1:X:34:SER:C	1:X:35:THR:N	1:X:35:THR:CA	1:X:35:THR:C	5	12.6
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	19	12.5
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	3	12.5
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	13	12.5
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	2	12.4
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	18	12.4
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	15	12.0
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	17	12.0
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	19	11.9
(1,171)	1:X:97:GLU:C	1:X:98:GLU:N	1:X:98:GLU:CA	1:X:98:GLU:C	17	11.8
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	5	11.8
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	2	11.7
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	2	11.7
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	19	11.6
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	18	11.5
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	8	11.5
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	11	11.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	7	11.4
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	8	11.4
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	17	11.4
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	18	11.4
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	10	11.3
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	6	11.1
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	15	11.0
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	7	11.0
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	9	11.0
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	15	10.8
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	3	10.8
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	7	10.6
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	15	10.5
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	17	10.4
(1,146)	1:X:84:PRO:N	1:X:84:PRO:CA	1:X:84:PRO:C	1:X:85:LEU:N	11	10.4
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	4	10.3
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	20	10.3
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	16	10.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	13	10.1
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	11	9.9
(1,217)	1:X:124:MET:C	1:X:125:ILE:N	1:X:125:ILE:CA	1:X:125:ILE:C	2	9.9
(1,192)	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	1:X:111:ARG:N	3	9.9
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	8	9.9
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	12	9.8
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	18	9.8
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	10	9.7
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	7	9.7
(1,161)	1:X:92:ALA:C	1:X:93:ARG:N	1:X:93:ARG:CA	1:X:93:ARG:C	17	9.7
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	3	9.7
(1,52)	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	1:X:35:THR:N	13	9.6
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	8	9.6
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1	9.6
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	15	9.6
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	1	9.5
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	14	9.5
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	2	9.5
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	12	9.5
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	11	9.5
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	9	9.4
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	8	9.3
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	7	9.3
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	2	9.2
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1	9.2
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	1	9.2
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	12	9.2
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	6	9.2
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	20	9.1
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	10	9.1
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	7	9.1
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	8	9.0
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	14	8.9
(1,262)	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	1:X:148:PRO:N	8	8.9
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	12	8.8
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	6	8.8
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	16	8.7
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	16	8.5
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	10	8.5
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	14	8.4
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	5	8.4
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	7	8.4
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	8	8.4
(1,112)	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	1:X:66:ASP:N	10	8.4
(1,52)	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	1:X:35:THR:N	17	8.2
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	2	8.2
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	17	8.2
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	6	8.2
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	15	8.1
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	14	8.1
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	14	8.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,111)	1:X:64:VAL:C	1:X:65:GLU:N	1:X:65:GLU:CA	1:X:65:GLU:C	4	8.0
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	1	7.9
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	7	7.9
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	10	7.9
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	7	7.9
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	2	7.9
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	17	7.8
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	8	7.8
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	20	7.8
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	5	7.7
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	1	7.7
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	2	7.7
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	4	7.7
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	1	7.7
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	12	7.7
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	11	7.7
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	14	7.6
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	3	7.6
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	9	7.6
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	13	7.6
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	14	7.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	3	7.5
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	3	7.4
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	17	7.4
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	15	7.4
(1,219)	1:X:125:ILE:C	1:X:126:THR:N	1:X:126:THR:CA	1:X:126:THR:C	20	7.4
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	9	7.4
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	13	7.4
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	20	7.3
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	17	7.3
(1,127)	1:X:73:ASN:C	1:X:74:LEU:N	1:X:74:LEU:CA	1:X:74:LEU:C	1	7.3
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	8	7.2
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	4	7.2
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	15	7.2
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	13	7.1
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	17	7.1
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	3	7.1
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	4	7.0
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	6	6.9
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	18	6.9
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	8	6.9
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	5	6.9
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	1	6.9
(1,53)	1:X:34:SER:C	1:X:35:THR:N	1:X:35:THR:CA	1:X:35:THR:C	17	6.8
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	10	6.8
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	2	6.8
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	15	6.7
(1,210)	1:X:119:ALA:N	1:X:119:ALA:CA	1:X:119:ALA:C	1:X:120:VAL:N	9	6.7
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	3	6.6
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	20	6.6
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	17	6.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	16	6.6
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	18	6.6
(1,137)	1:X:78:SER:C	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	11	6.6
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	16	6.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	5	6.5
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	6	6.5
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	13	6.4
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	6	6.4
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	4	6.4
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	15	6.3
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	15	6.3
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	16	6.3
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	11	6.3
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	18	6.3
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	2	6.3
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	14	6.2
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	3	6.2
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	1	6.2
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	18	6.1
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	20	6.1
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	16	6.1
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	11	6.1
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	5	6.1
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	19	6.1
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	16	6.0
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	10	6.0
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	17	6.0
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	16	6.0
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	2	5.9
(1,149)	1:X:86:PHE:C	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	14	5.9
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	20	5.9
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	10	5.9
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	20	5.9
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	17	5.9
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	1	5.8
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	10	5.8
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	1	5.8
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	20	5.8
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	12	5.8
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	2	5.8
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	13	5.7
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	12	5.6
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	13	5.6
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	7	5.5
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	9	5.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	17	5.5
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	19	5.5
(1,146)	1:X:84:PRO:N	1:X:84:PRO:CA	1:X:84:PRO:C	1:X:85:LEU:N	4	5.5
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	8	5.4
(1,71)	1:X:43:GLU:C	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	5	5.4
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	10	5.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	4	5.4
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	7	5.4
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	15	5.4
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	20	5.3
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	8	5.3
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	9	5.3
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	11	5.3
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	14	5.3
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	11	5.3
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	6	5.3
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	12	5.2
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	14	5.2
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1	5.2
(1,125)	1:X:72:TYR:C	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	14	5.2
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	10	5.1
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	15	5.1
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	6	5.1
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	6	5.1
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	10	5.1
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	7	5.1
(1,131)	1:X:75:GLU:C	1:X:76:VAL:N	1:X:76:VAL:CA	1:X:76:VAL:C	16	5.1
(1,121)	1:X:70:VAL:C	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	16	5.1
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	13	5.0
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	12	5.0
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	15	5.0
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	20	4.9
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	19	4.9
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	9	4.9
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	15	4.9
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	9	4.9
(1,109)	1:X:63:ASP:C	1:X:64:VAL:N	1:X:64:VAL:CA	1:X:64:VAL:C	1	4.9
(1,55)	1:X:35:THR:C	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	14	4.8
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	5	4.8
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	9	4.8
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	4	4.8
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	14	4.7
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	18	4.7
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	5	4.7
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	6	4.7
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	5	4.7
(1,196)	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	1:X:113:TRP:N	11	4.7
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	18	4.7
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	13	4.7
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	4	4.7
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	4	4.7
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	7	4.6
(1,262)	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	1:X:148:PRO:N	4	4.6
(1,214)	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	1:X:122:GLY:N	7	4.6
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	5	4.6
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	18	4.6
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	4	4.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,147)	1:X:84:PRO:C	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	3	4.6
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	9	4.6
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	5	4.5
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	3	4.5
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	15	4.5
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	10	4.5
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	1	4.5
(1,14)	1:X:11:MET:N	1:X:11:MET:CA	1:X:11:MET:C	1:X:12:ILE:N	5	4.5
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	14	4.5
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	8	4.4
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	17	4.4
(1,244)	1:X:138:LEU:N	1:X:138:LEU:CA	1:X:138:LEU:C	1:X:139:SER:N	19	4.4
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	1	4.4
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	4	4.4
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	1	4.4
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	2	4.4
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	8	4.4
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	2	4.3
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	13	4.3
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	14	4.3
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	3	4.3
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	13	4.3
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	17	4.3
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	8	4.3
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	20	4.3
(1,160)	1:X:92:ALA:N	1:X:92:ALA:CA	1:X:92:ALA:C	1:X:93:ARG:N	19	4.3
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	3	4.3
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	6	4.2
(1,67)	1:X:41:ASP:C	1:X:42:SER:N	1:X:42:SER:CA	1:X:42:SER:C	3	4.2
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	14	4.2
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	8	4.2
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	19	4.2
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	17	4.2
(1,197)	1:X:112:LYS:C	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1	4.2
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	9	4.2
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	11	4.2
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	19	4.2
(1,119)	1:X:68:ILE:C	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	12	4.2
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	2	4.2
(1,109)	1:X:63:ASP:C	1:X:64:VAL:N	1:X:64:VAL:CA	1:X:64:VAL:C	10	4.2
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	12	4.1
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	7	4.1
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	12	4.1
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	9	4.1
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	6	4.1
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	14	4.1
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	12	4.1
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	3	4.1
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	15	4.1
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	18	4.1
(1,142)	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	1:X:83:ARG:N	17	4.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	8	4.1
(1,92)	1:X:55:SER:N	1:X:55:SER:CA	1:X:55:SER:C	1:X:56:HIS:N	7	4.0
(1,66)	1:X:41:ASP:N	1:X:41:ASP:CA	1:X:41:ASP:C	1:X:42:SER:N	7	4.0
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	3	4.0
(1,214)	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	1:X:122:GLY:N	16	4.0
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	11	4.0
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	5	4.0
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	11	4.0
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	3	4.0
(1,122)	1:X:71:ALA:N	1:X:71:ALA:CA	1:X:71:ALA:C	1:X:72:TYR:N	16	4.0
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	19	3.9
(1,251)	1:X:141:ILE:C	1:X:142:GLN:N	1:X:142:GLN:CA	1:X:142:GLN:C	5	3.9
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	19	3.9
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	10	3.9
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	14	3.9
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	3	3.9
(1,1)	1:X:4:LEU:C	1:X:5:GLU:N	1:X:5:GLU:CA	1:X:5:GLU:C	19	3.9
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	8	3.8
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	2	3.8
(1,236)	1:X:134:GLU:N	1:X:134:GLU:CA	1:X:134:GLU:C	1:X:135:VAL:N	1	3.8
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	1	3.8
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	10	3.8
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	16	3.8
(1,109)	1:X:63:ASP:C	1:X:64:VAL:N	1:X:64:VAL:CA	1:X:64:VAL:C	17	3.8
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	18	3.7
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	1	3.7
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	6	3.7
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	11	3.7
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	12	3.7
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	14	3.7
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	5	3.7
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	20	3.7
(1,125)	1:X:72:TYR:C	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	5	3.7
(1,78)	1:X:48:VAL:N	1:X:48:VAL:CA	1:X:48:VAL:C	1:X:49:ASP:N	17	3.6
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	5	3.6
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	2	3.6
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	7	3.6
(1,164)	1:X:94:PHE:N	1:X:94:PHE:CA	1:X:94:PHE:C	1:X:95:VAL:N	12	3.6
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1	3.6
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	13	3.6
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	10	3.5
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	16	3.5
(1,47)	1:X:29:ILE:C	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	18	3.5
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	1	3.5
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	10	3.5
(1,219)	1:X:125:ILE:C	1:X:126:THR:N	1:X:126:THR:CA	1:X:126:THR:C	10	3.5
(1,199)	1:X:113:TRP:C	1:X:114:GLN:N	1:X:114:GLN:CA	1:X:114:GLN:C	1	3.5
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	12	3.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	13	3.5
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	9	3.5
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	19	3.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	4	3.5
(1,139)	1:X:80:GLY:C	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	6	3.5
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	13	3.5
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	1	3.5
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	1	3.4
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	17	3.4
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	16	3.4
(1,236)	1:X:134:GLU:N	1:X:134:GLU:CA	1:X:134:GLU:C	1:X:135:VAL:N	7	3.4
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	13	3.4
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	20	3.4
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	18	3.4
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	8	3.4
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	18	3.4
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	3	3.3
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	5	3.3
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	17	3.3
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	6	3.3
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	4	3.3
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	10	3.3
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	1	3.3
(1,147)	1:X:84:PRO:C	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	12	3.3
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	6	3.3
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	16	3.3
(1,131)	1:X:75:GLU:C	1:X:76:VAL:N	1:X:76:VAL:CA	1:X:76:VAL:C	13	3.3
(1,109)	1:X:63:ASP:C	1:X:64:VAL:N	1:X:64:VAL:CA	1:X:64:VAL:C	20	3.3
(1,92)	1:X:55:SER:N	1:X:55:SER:CA	1:X:55:SER:C	1:X:56:HIS:N	3	3.2
(1,82)	1:X:50:ASP:N	1:X:50:ASP:CA	1:X:50:ASP:C	1:X:51:CYS:N	6	3.2
(1,72)	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	1:X:45:GLY:N	11	3.2
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	11	3.2
(1,34)	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	1:X:22:GLU:N	11	3.2
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	19	3.2
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	13	3.2
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	3	3.2
(1,214)	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	1:X:122:GLY:N	18	3.2
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	7	3.2
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	2	3.2
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	8	3.2
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	12	3.2
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	9	3.1
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	8	3.1
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	9	3.1
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	14	3.1
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	13	3.1
(1,54)	1:X:35:THR:N	1:X:35:THR:CA	1:X:35:THR:C	1:X:36:LEU:N	14	3.1
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	3	3.1
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	5	3.1
(1,221)	1:X:126:THR:C	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	13	3.1
(1,214)	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	1:X:122:GLY:N	6	3.1
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	18	3.1
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	13	3.1
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	11	3.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	16	3.1
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	16	3.1
(1,159)	1:X:91:TYR:C	1:X:92:ALA:N	1:X:92:ALA:CA	1:X:92:ALA:C	20	3.1
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	7	3.1
(1,92)	1:X:55:SER:N	1:X:55:SER:CA	1:X:55:SER:C	1:X:56:HIS:N	8	3.0
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	5	3.0
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	7	3.0
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	7	3.0
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	7	3.0
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	15	3.0
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	18	3.0
(1,246)	1:X:139:SER:N	1:X:139:SER:CA	1:X:139:SER:C	1:X:140:ASN:N	19	3.0
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	8	3.0
(1,203)	1:X:115:GLY:C	1:X:116:VAL:N	1:X:116:VAL:CA	1:X:116:VAL:C	2	3.0
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	2	3.0
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	7	3.0
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	4	3.0
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	12	3.0
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	6	3.0
(1,138)	1:X:79:PRO:N	1:X:79:PRO:CA	1:X:79:PRO:C	1:X:80:GLY:N	20	3.0
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	16	3.0
(1,86)	1:X:52:ALA:N	1:X:52:ALA:CA	1:X:52:ALA:C	1:X:53:ASP:N	1	2.9
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	11	2.9
(1,56)	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	1:X:37:ARG:N	1	2.9
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	10	2.9
(1,221)	1:X:126:THR:C	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	6	2.9
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	2	2.9
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	3	2.9
(1,14)	1:X:11:MET:N	1:X:11:MET:CA	1:X:11:MET:C	1:X:12:ILE:N	15	2.9
(1,14)	1:X:11:MET:N	1:X:11:MET:CA	1:X:11:MET:C	1:X:12:ILE:N	20	2.9
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	6	2.9
(1,133)	1:X:76:VAL:C	1:X:77:SER:N	1:X:77:SER:CA	1:X:77:SER:C	14	2.9
(1,78)	1:X:48:VAL:N	1:X:48:VAL:CA	1:X:48:VAL:C	1:X:49:ASP:N	3	2.8
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	14	2.8
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	16	2.8
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	8	2.8
(1,193)	1:X:110:ARG:C	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	19	2.8
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	11	2.8
(1,161)	1:X:92:ALA:C	1:X:93:ARG:N	1:X:93:ARG:CA	1:X:93:ARG:C	15	2.8
(1,146)	1:X:84:PRO:N	1:X:84:PRO:CA	1:X:84:PRO:C	1:X:85:LEU:N	18	2.8
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	15	2.8
(1,133)	1:X:76:VAL:C	1:X:77:SER:N	1:X:77:SER:CA	1:X:77:SER:C	13	2.8
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	3	2.8
(1,114)	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	1:X:67:PRO:N	10	2.8
(1,81)	1:X:49:ASP:C	1:X:50:ASP:N	1:X:50:ASP:CA	1:X:50:ASP:C	9	2.7
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	20	2.7
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	14	2.7
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	17	2.7
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	20	2.7
(1,231)	1:X:131:GLY:C	1:X:132:LYS:N	1:X:132:LYS:CA	1:X:132:LYS:C	10	2.7
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	15	2.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,192)	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	1:X:111:ARG:N	12	2.7
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	3	2.7
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	3	2.6
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	13	2.6
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	1	2.6
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	6	2.6
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	2	2.6
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	7	2.6
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	19	2.6
(1,196)	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	1:X:113:TRP:N	6	2.6
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	11	2.6
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	19	2.6
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	19	2.5
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	2	2.5
(1,231)	1:X:131:GLY:C	1:X:132:LYS:N	1:X:132:LYS:CA	1:X:132:LYS:C	16	2.5
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	16	2.5
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	12	2.5
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	19	2.5
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	4	2.4
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	20	2.4
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	2	2.4
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	15	2.4
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	13	2.4
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	11	2.4
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	13	2.4
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	10	2.4
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	17	2.4
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	17	2.4
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	4	2.4
(1,168)	1:X:96:GLY:N	1:X:96:GLY:CA	1:X:96:GLY:C	1:X:97:GLU:N	11	2.4
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	4	2.4
(1,109)	1:X:63:ASP:C	1:X:64:VAL:N	1:X:64:VAL:CA	1:X:64:VAL:C	14	2.4
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1	2.3
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	19	2.3
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	5	2.3
(1,47)	1:X:29:ILE:C	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	16	2.3
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	6	2.3
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	13	2.3
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	18	2.3
(1,208)	1:X:118:LYS:N	1:X:118:LYS:CA	1:X:118:LYS:C	1:X:119:ALA:N	15	2.3
(1,186)	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	1:X:108:GLN:N	5	2.3
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	5	2.3
(1,168)	1:X:96:GLY:N	1:X:96:GLY:CA	1:X:96:GLY:C	1:X:97:GLU:N	4	2.3
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	12	2.3
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	15	2.3
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	5	2.2
(1,45)	1:X:28:PHE:C	1:X:29:ILE:N	1:X:29:ILE:CA	1:X:29:ILE:C	16	2.2
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	4	2.2
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	9	2.2
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	13	2.2
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	11	2.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	10	2.2
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	14	2.2
(1,152)	1:X:88:ALA:N	1:X:88:ALA:CA	1:X:88:ALA:C	1:X:89:GLU:N	6	2.2
(1,124)	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	1:X:73:ASN:N	2	2.2
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	2	2.1
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	6	2.1
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	14	2.1
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	10	2.1
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	4	2.1
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	7	2.1
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	4	2.1
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	16	2.1
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	8	2.1
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	20	2.1
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	19	2.1
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	10	2.1
(1,181)	1:X:102:VAL:C	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	9	2.1
(1,161)	1:X:92:ALA:C	1:X:93:ARG:N	1:X:93:ARG:CA	1:X:93:ARG:C	9	2.1
(1,14)	1:X:11:MET:N	1:X:11:MET:CA	1:X:11:MET:C	1:X:12:ILE:N	10	2.1
(1,120)	1:X:69:THR:N	1:X:69:THR:CA	1:X:69:THR:C	1:X:70:VAL:N	20	2.1
(1,71)	1:X:43:GLU:C	1:X:44:ASP:N	1:X:44:ASP:CA	1:X:44:ASP:C	6	2.0
(1,67)	1:X:41:ASP:C	1:X:42:SER:N	1:X:42:SER:CA	1:X:42:SER:C	4	2.0
(1,48)	1:X:30:ARG:N	1:X:30:ARG:CA	1:X:30:ARG:C	1:X:31:GLY:N	9	2.0
(1,45)	1:X:28:PHE:C	1:X:29:ILE:N	1:X:29:ILE:CA	1:X:29:ILE:C	19	2.0
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	1	2.0
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	11	2.0
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	15	2.0
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	7	2.0
(1,203)	1:X:115:GLY:C	1:X:116:VAL:N	1:X:116:VAL:CA	1:X:116:VAL:C	14	2.0
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	3	2.0
(1,140)	1:X:81:LEU:N	1:X:81:LEU:CA	1:X:81:LEU:C	1:X:82:ASP:N	10	2.0
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	9	1.9
(1,29)	1:X:18:ALA:C	1:X:19:LEU:N	1:X:19:LEU:CA	1:X:19:LEU:C	8	1.9
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	1	1.9
(1,199)	1:X:113:TRP:C	1:X:114:GLN:N	1:X:114:GLN:CA	1:X:114:GLN:C	3	1.9
(1,198)	1:X:113:TRP:N	1:X:113:TRP:CA	1:X:113:TRP:C	1:X:114:GLN:N	5	1.9
(1,194)	1:X:111:ARG:N	1:X:111:ARG:CA	1:X:111:ARG:C	1:X:112:LYS:N	16	1.9
(1,178)	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	1:X:102:VAL:N	16	1.9
(1,154)	1:X:89:GLU:N	1:X:89:GLU:CA	1:X:89:GLU:C	1:X:90:HIS:N	18	1.9
(1,148)	1:X:85:LEU:N	1:X:85:LEU:CA	1:X:85:LEU:C	1:X:86:PHE:N	9	1.9
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	14	1.9
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	4	1.8
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	15	1.8
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	9	1.8
(1,56)	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	1:X:37:ARG:N	19	1.8
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	5	1.8
(1,236)	1:X:134:GLU:N	1:X:134:GLU:CA	1:X:134:GLU:C	1:X:135:VAL:N	20	1.8
(1,214)	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	1:X:122:GLY:N	17	1.8
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	13	1.8
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	15	1.8
(1,181)	1:X:102:VAL:C	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	13	1.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,161)	1:X:92:ALA:C	1:X:93:ARG:N	1:X:93:ARG:CA	1:X:93:ARG:C	19	1.8
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	1	1.8
(1,130)	1:X:75:GLU:N	1:X:75:GLU:CA	1:X:75:GLU:C	1:X:76:VAL:N	14	1.8
(1,78)	1:X:48:VAL:N	1:X:48:VAL:CA	1:X:48:VAL:C	1:X:49:ASP:N	8	1.7
(1,75)	1:X:46:ILE:C	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	18	1.7
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	19	1.7
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	8	1.7
(1,41)	1:X:26:ILE:C	1:X:27:GLU:N	1:X:27:GLU:CA	1:X:27:GLU:C	11	1.7
(1,226)	1:X:129:VAL:N	1:X:129:VAL:CA	1:X:129:VAL:C	1:X:130:GLU:N	17	1.7
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	16	1.7
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	6	1.7
(1,187)	1:X:107:VAL:C	1:X:108:GLN:N	1:X:108:GLN:CA	1:X:108:GLN:C	4	1.7
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	2	1.7
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	1	1.7
(1,168)	1:X:96:GLY:N	1:X:96:GLY:CA	1:X:96:GLY:C	1:X:97:GLU:N	12	1.7
(1,130)	1:X:75:GLU:N	1:X:75:GLU:CA	1:X:75:GLU:C	1:X:76:VAL:N	19	1.7
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	12	1.7
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	12	1.7
(1,92)	1:X:55:SER:N	1:X:55:SER:CA	1:X:55:SER:C	1:X:56:HIS:N	19	1.6
(1,76)	1:X:47:ASN:N	1:X:47:ASN:CA	1:X:47:ASN:C	1:X:48:VAL:N	17	1.6
(1,67)	1:X:41:ASP:C	1:X:42:SER:N	1:X:42:SER:CA	1:X:42:SER:C	11	1.6
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	17	1.6
(1,53)	1:X:34:SER:C	1:X:35:THR:N	1:X:35:THR:CA	1:X:35:THR:C	13	1.6
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	8	1.6
(1,37)	1:X:24:VAL:C	1:X:25:GLY:N	1:X:25:GLY:CA	1:X:25:GLY:C	10	1.6
(1,31)	1:X:19:LEU:C	1:X:20:GLY:N	1:X:20:GLY:CA	1:X:20:GLY:C	8	1.6
(1,238)	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	1:X:136:PHE:N	12	1.6
(1,203)	1:X:115:GLY:C	1:X:116:VAL:N	1:X:116:VAL:CA	1:X:116:VAL:C	12	1.6
(1,203)	1:X:115:GLY:C	1:X:116:VAL:N	1:X:116:VAL:CA	1:X:116:VAL:C	19	1.6
(1,2)	1:X:5:GLU:N	1:X:5:GLU:CA	1:X:5:GLU:C	1:X:6:GLN:N	4	1.6
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1	1.6
(1,181)	1:X:102:VAL:C	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	11	1.6
(1,143)	1:X:82:ASP:C	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	6	1.6
(1,135)	1:X:77:SER:C	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	15	1.6
(1,73)	1:X:45:GLY:C	1:X:46:ILE:N	1:X:46:ILE:CA	1:X:46:ILE:C	8	1.5
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	2	1.5
(1,69)	1:X:42:SER:C	1:X:43:GLU:N	1:X:43:GLU:CA	1:X:43:GLU:C	15	1.5
(1,64)	1:X:40:ILE:N	1:X:40:ILE:CA	1:X:40:ILE:C	1:X:41:ASP:N	3	1.5
(1,45)	1:X:28:PHE:C	1:X:29:ILE:N	1:X:29:ILE:CA	1:X:29:ILE:C	12	1.5
(1,36)	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1:X:24:VAL:N	10	1.5
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	1	1.5
(1,33)	1:X:20:GLY:C	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	12	1.5
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	18	1.5
(1,244)	1:X:138:LEU:N	1:X:138:LEU:CA	1:X:138:LEU:C	1:X:139:SER:N	13	1.5
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	9	1.5
(1,216)	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	1:X:125:ILE:N	7	1.5
(1,207)	1:X:117:ILE:C	1:X:118:LYS:N	1:X:118:LYS:CA	1:X:118:LYS:C	1	1.5
(1,191)	1:X:109:ASN:C	1:X:110:ARG:N	1:X:110:ARG:CA	1:X:110:ARG:C	6	1.5
(1,169)	1:X:96:GLY:C	1:X:97:GLU:N	1:X:97:GLU:CA	1:X:97:GLU:C	11	1.5
(1,144)	1:X:83:ARG:N	1:X:83:ARG:CA	1:X:83:ARG:C	1:X:84:PRO:N	19	1.5
(1,141)	1:X:81:LEU:C	1:X:82:ASP:N	1:X:82:ASP:CA	1:X:82:ASP:C	10	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,136)	1:X:78:SER:N	1:X:78:SER:CA	1:X:78:SER:C	1:X:79:PRO:N	2	1.5
(1,117)	1:X:67:PRO:C	1:X:68:ILE:N	1:X:68:ILE:CA	1:X:68:ILE:C	19	1.5
(1,80)	1:X:49:ASP:N	1:X:49:ASP:CA	1:X:49:ASP:C	1:X:50:ASP:N	4	1.4
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	12	1.4
(1,261)	1:X:146:LEU:C	1:X:147:VAL:N	1:X:147:VAL:CA	1:X:147:VAL:C	12	1.4
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	19	1.4
(1,246)	1:X:139:SER:N	1:X:139:SER:CA	1:X:139:SER:C	1:X:140:ASN:N	3	1.4
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	17	1.4
(1,207)	1:X:117:ILE:C	1:X:118:LYS:N	1:X:118:LYS:CA	1:X:118:LYS:C	17	1.4
(1,203)	1:X:115:GLY:C	1:X:116:VAL:N	1:X:116:VAL:CA	1:X:116:VAL:C	18	1.4
(1,195)	1:X:111:ARG:C	1:X:112:LYS:N	1:X:112:LYS:CA	1:X:112:LYS:C	5	1.4
(1,190)	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	1:X:110:ARG:N	12	1.4
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	10	1.4
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	15	1.4
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	19	1.4
(1,168)	1:X:96:GLY:N	1:X:96:GLY:CA	1:X:96:GLY:C	1:X:97:GLU:N	15	1.4
(1,150)	1:X:87:THR:N	1:X:87:THR:CA	1:X:87:THR:C	1:X:88:ALA:N	9	1.4
(1,145)	1:X:83:ARG:C	1:X:84:PRO:N	1:X:84:PRO:CA	1:X:84:PRO:C	18	1.4
(1,134)	1:X:77:SER:N	1:X:77:SER:CA	1:X:77:SER:C	1:X:78:SER:N	1	1.4
(1,124)	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	1:X:73:ASN:N	10	1.4
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	13	1.4
(1,86)	1:X:52:ALA:N	1:X:52:ALA:CA	1:X:52:ALA:C	1:X:53:ASP:N	12	1.3
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	1	1.3
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	5	1.3
(1,42)	1:X:27:GLU:N	1:X:27:GLU:CA	1:X:27:GLU:C	1:X:28:PHE:N	2	1.3
(1,34)	1:X:21:PHE:N	1:X:21:PHE:CA	1:X:21:PHE:C	1:X:22:GLU:N	2	1.3
(1,244)	1:X:138:LEU:N	1:X:138:LEU:CA	1:X:138:LEU:C	1:X:139:SER:N	9	1.3
(1,237)	1:X:134:GLU:C	1:X:135:VAL:N	1:X:135:VAL:CA	1:X:135:VAL:C	5	1.3
(1,224)	1:X:128:THR:N	1:X:128:THR:CA	1:X:128:THR:C	1:X:129:VAL:N	7	1.3
(1,221)	1:X:126:THR:C	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	7	1.3
(1,212)	1:X:120:VAL:N	1:X:120:VAL:CA	1:X:120:VAL:C	1:X:121:ASP:N	4	1.3
(1,184)	1:X:104:ARG:N	1:X:104:ARG:CA	1:X:104:ARG:C	1:X:105:MET:N	20	1.3
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	3	1.3
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	15	1.3
(1,181)	1:X:102:VAL:C	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	12	1.3
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	16	1.3
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	17	1.3
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	19	1.3
(1,86)	1:X:52:ALA:N	1:X:52:ALA:CA	1:X:52:ALA:C	1:X:53:ASP:N	3	1.2
(1,66)	1:X:41:ASP:N	1:X:41:ASP:CA	1:X:41:ASP:C	1:X:42:SER:N	20	1.2
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	2	1.2
(1,38)	1:X:25:GLY:N	1:X:25:GLY:CA	1:X:25:GLY:C	1:X:26:ILE:N	10	1.2
(1,28)	1:X:18:ALA:N	1:X:18:ALA:CA	1:X:18:ALA:C	1:X:19:LEU:N	20	1.2
(1,250)	1:X:141:ILE:N	1:X:141:ILE:CA	1:X:141:ILE:C	1:X:142:GLN:N	8	1.2
(1,247)	1:X:139:SER:C	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	15	1.2
(1,230)	1:X:131:GLY:N	1:X:131:GLY:CA	1:X:131:GLY:C	1:X:132:LYS:N	12	1.2
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	18	1.2
(1,215)	1:X:123:GLU:C	1:X:124:MET:N	1:X:124:MET:CA	1:X:124:MET:C	15	1.2
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	19	1.2
(1,189)	1:X:108:GLN:C	1:X:109:ASN:N	1:X:109:ASN:CA	1:X:109:ASN:C	13	1.2
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	12	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	6	1.2
(1,177)	1:X:100:THR:C	1:X:101:LEU:N	1:X:101:LEU:CA	1:X:101:LEU:C	15	1.2
(1,166)	1:X:95:VAL:N	1:X:95:VAL:CA	1:X:95:VAL:C	1:X:96:GLY:N	19	1.2
(1,113)	1:X:65:GLU:C	1:X:66:ASP:N	1:X:66:ASP:CA	1:X:66:ASP:C	8	1.2
(1,92)	1:X:55:SER:N	1:X:55:SER:CA	1:X:55:SER:C	1:X:56:HIS:N	1	1.1
(1,59)	1:X:37:ARG:C	1:X:38:ILE:N	1:X:38:ILE:CA	1:X:38:ILE:C	6	1.1
(1,56)	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	1:X:37:ARG:N	2	1.1
(1,55)	1:X:35:THR:C	1:X:36:LEU:N	1:X:36:LEU:CA	1:X:36:LEU:C	17	1.1
(1,51)	1:X:33:THR:C	1:X:34:SER:N	1:X:34:SER:CA	1:X:34:SER:C	9	1.1
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	4	1.1
(1,35)	1:X:22:GLU:C	1:X:23:LEU:N	1:X:23:LEU:CA	1:X:23:LEU:C	19	1.1
(1,248)	1:X:140:ASN:N	1:X:140:ASN:CA	1:X:140:ASN:C	1:X:141:ILE:N	18	1.1
(1,241)	1:X:136:PHE:C	1:X:137:ALA:N	1:X:137:ALA:CA	1:X:137:ALA:C	7	1.1
(1,222)	1:X:127:VAL:N	1:X:127:VAL:CA	1:X:127:VAL:C	1:X:128:THR:N	20	1.1
(1,213)	1:X:120:VAL:C	1:X:121:ASP:N	1:X:121:ASP:CA	1:X:121:ASP:C	15	1.1
(1,211)	1:X:119:ALA:C	1:X:120:VAL:N	1:X:120:VAL:CA	1:X:120:VAL:C	9	1.1
(1,185)	1:X:106:ALA:C	1:X:107:VAL:N	1:X:107:VAL:CA	1:X:107:VAL:C	20	1.1
(1,182)	1:X:103:LEU:N	1:X:103:LEU:CA	1:X:103:LEU:C	1:X:104:ARG:N	16	1.1
(1,153)	1:X:88:ALA:C	1:X:89:GLU:N	1:X:89:GLU:CA	1:X:89:GLU:C	14	1.1
(1,14)	1:X:11:MET:N	1:X:11:MET:CA	1:X:11:MET:C	1:X:12:ILE:N	17	1.1
(1,126)	1:X:73:ASN:N	1:X:73:ASN:CA	1:X:73:ASN:C	1:X:74:LEU:N	8	1.1
(1,123)	1:X:71:ALA:C	1:X:72:TYR:N	1:X:72:TYR:CA	1:X:72:TYR:C	16	1.1