



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 11:46 PM UTC

PDB ID : 2KG4 / pdb_00002kg4
BMRB ID : 15855
Title : Three-dimensional structure of human Gadd45alpha in solution by NMR
Authors : Sanchez, R.; Pantoja-Uceda, D.; Prieto, J.; Diercks, T.; Campos-Olivas, R.; Blanco, F.J.
Deposited on : 2009-03-04

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

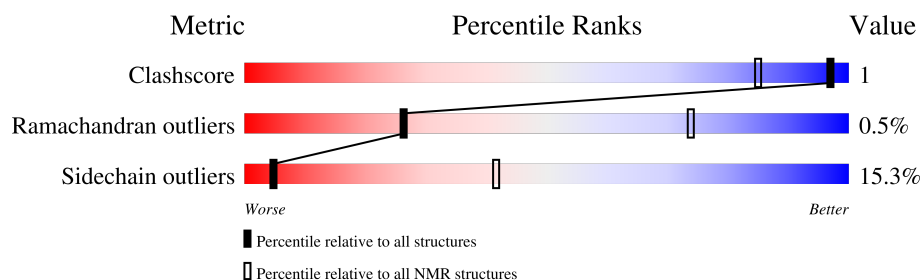
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 83%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	165	73% 5% 22%

2 Ensemble composition and analysis

This entry contains 20 models. Model 4 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	A:14-A:105, A:122-A:129, A:137-A:165 (129)	1.10	4

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 4 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 2547 atoms, of which 1264 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Growth arrest and DNA-damage-inducible protein GADD45 alpha.

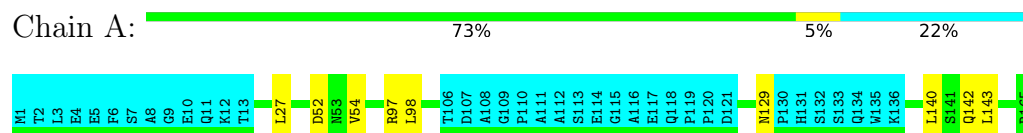
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	165	2547	800	1264	217	257	9	0

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha

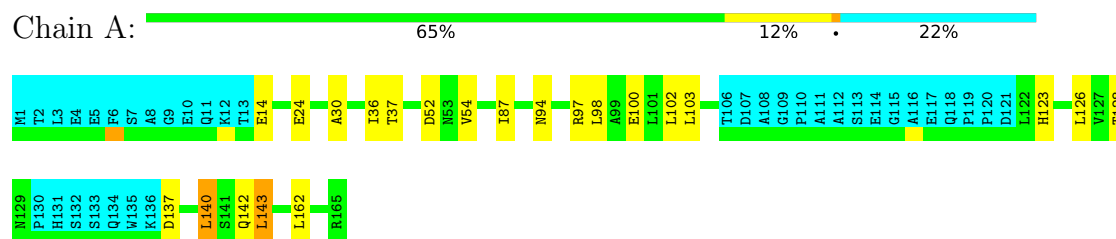


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

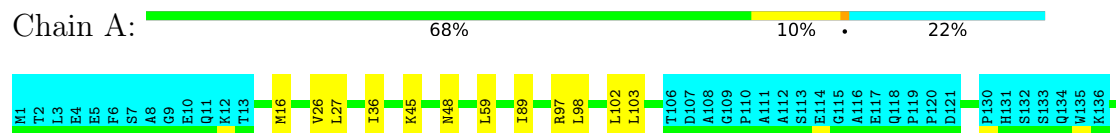
4.2.1 Score per residue for model 1

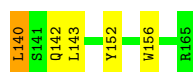
- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



4.2.2 Score per residue for model 2

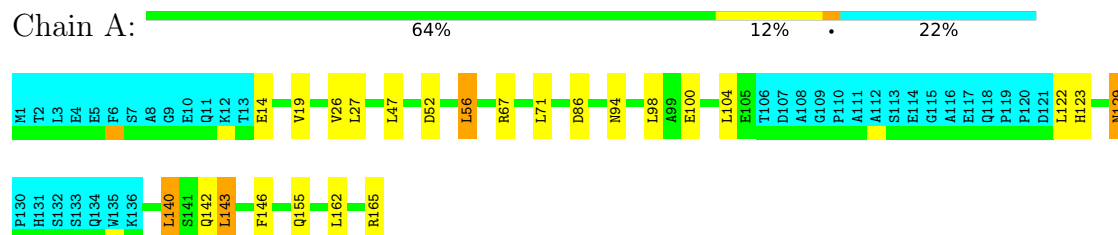
- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha





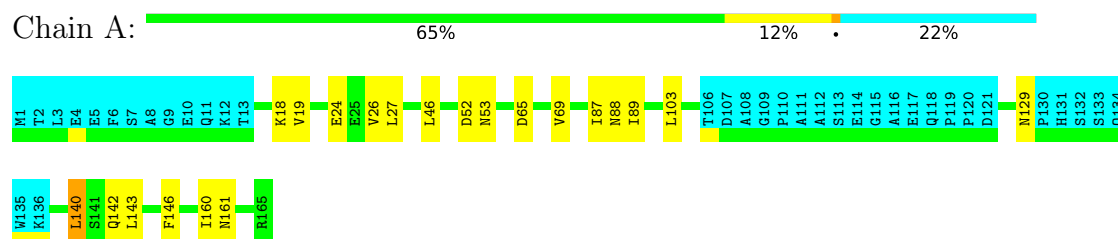
4.2.3 Score per residue for model 3

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



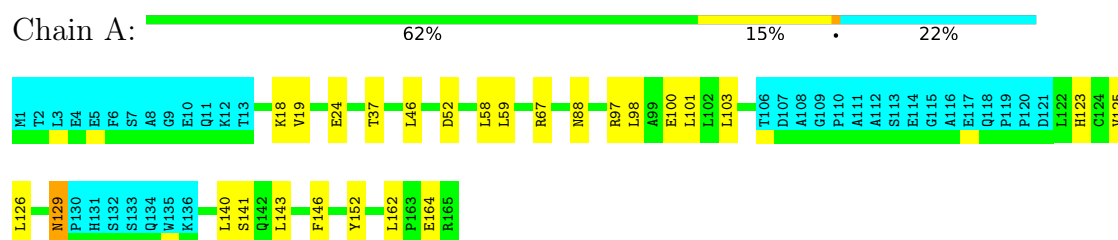
4.2.4 Score per residue for model 4 (medoid)

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



4.2.5 Score per residue for model 5

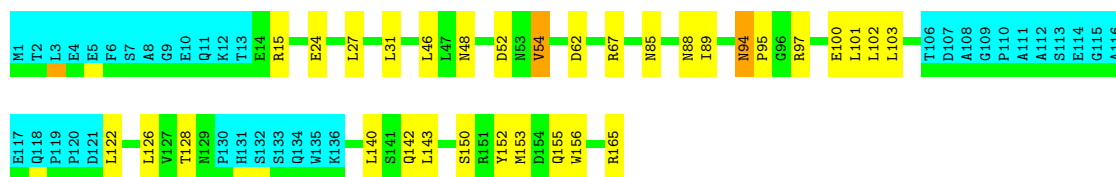
- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



4.2.6 Score per residue for model 6

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha

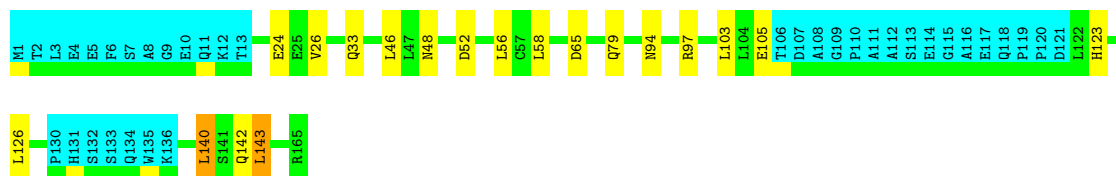




4.2.7 Score per residue for model 7

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha

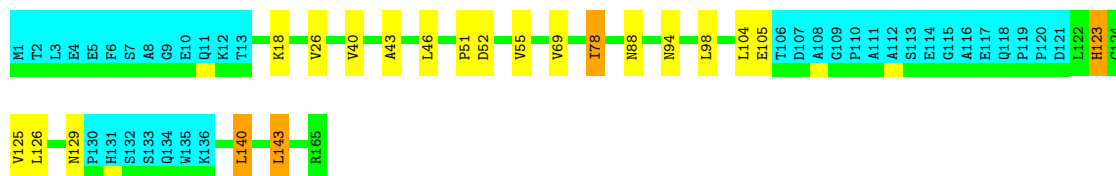
Chain A: 67% 10% 22%



4.2.8 Score per residue for model 8

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha

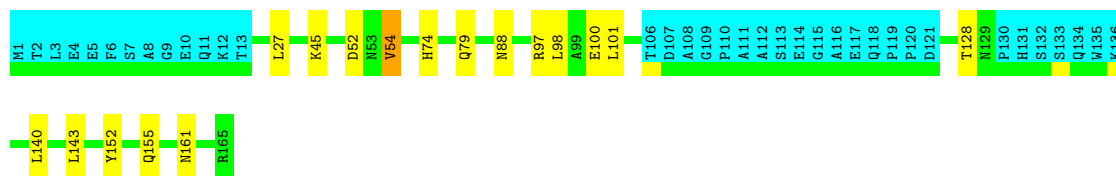
Chain A: 65% 10% 22%



4.2.9 Score per residue for model 9

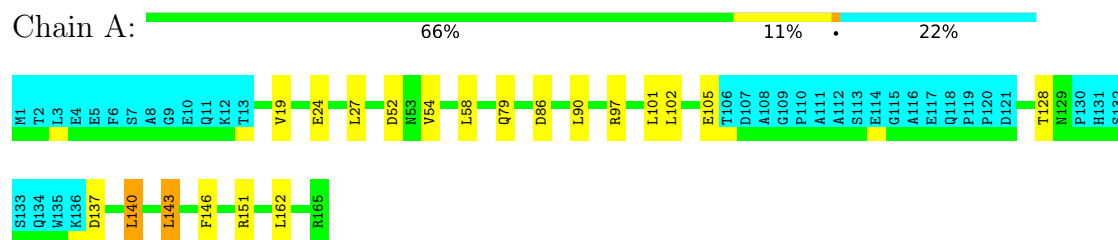
- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha

Chain A: 68% 10% 22%



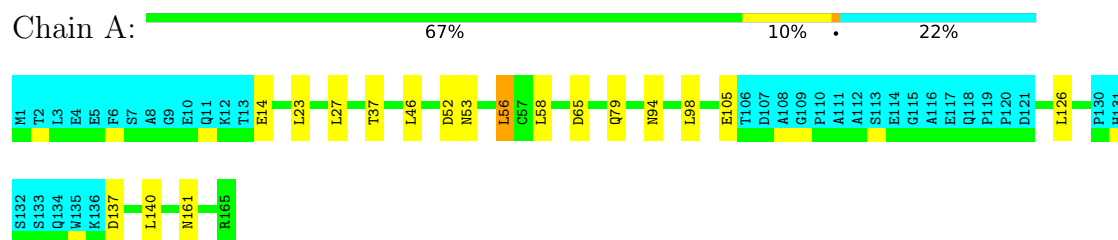
4.2.10 Score per residue for model 10

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



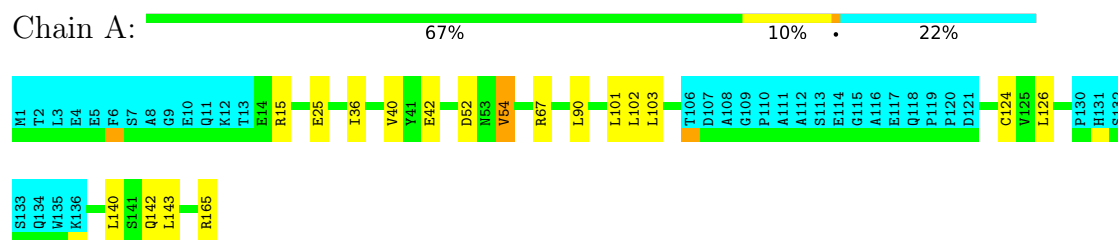
4.2.11 Score per residue for model 11

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



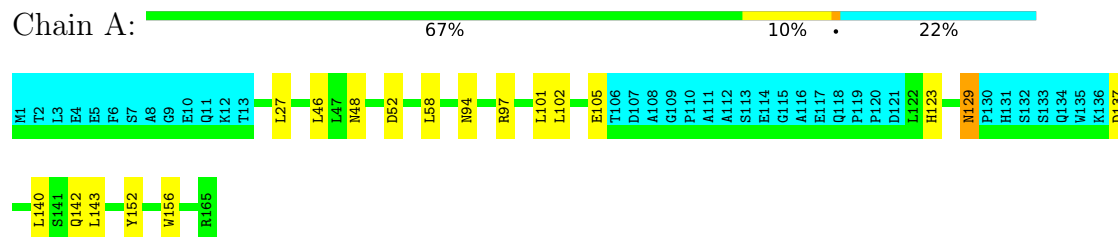
4.2.12 Score per residue for model 12

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



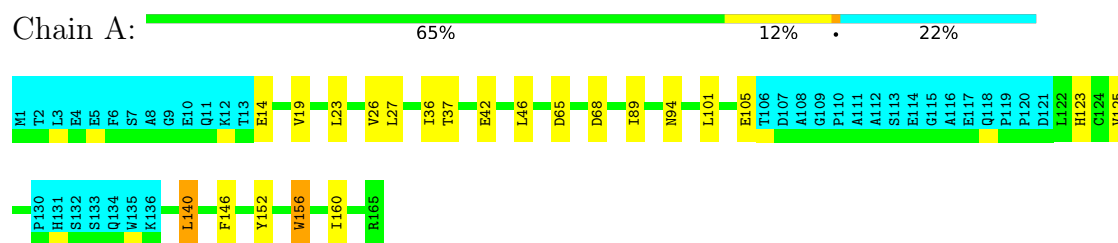
4.2.13 Score per residue for model 13

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



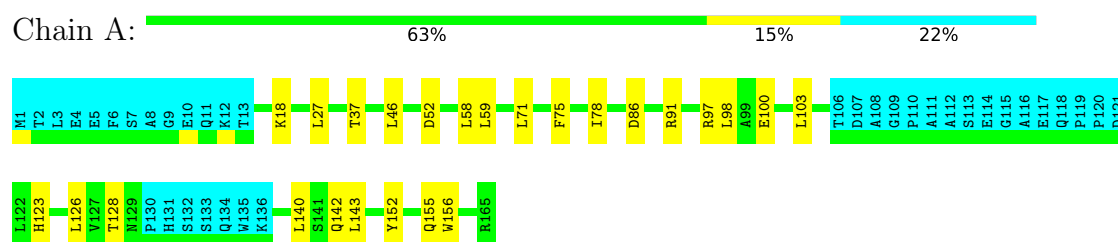
4.2.14 Score per residue for model 14

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



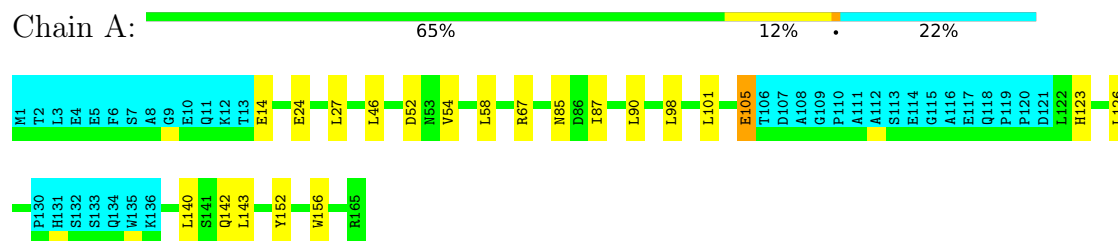
4.2.15 Score per residue for model 15

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



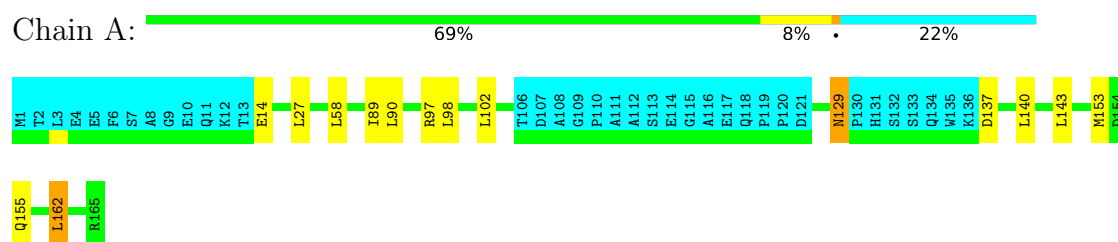
4.2.16 Score per residue for model 16

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



4.2.17 Score per residue for model 17

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



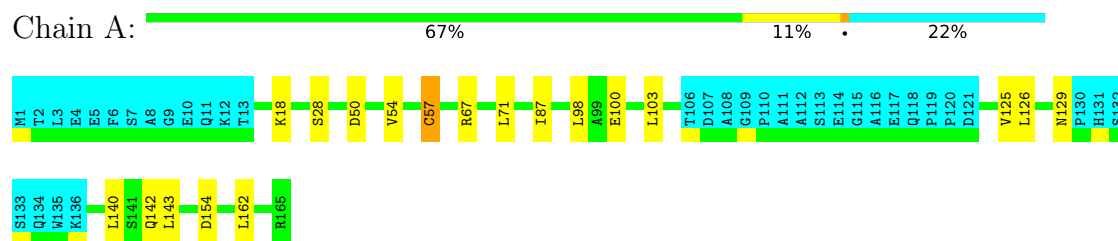
4.2.18 Score per residue for model 18

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



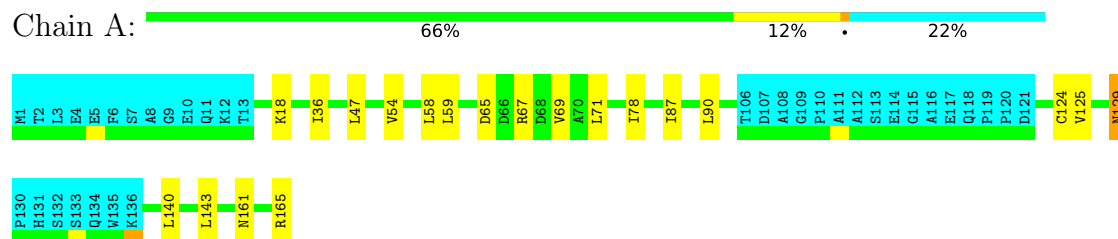
4.2.19 Score per residue for model 19

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



4.2.20 Score per residue for model 20

- Molecule 1: Growth arrest and DNA-damage-inducible protein GADD45 alpha



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *target function*.

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

Software name	Classification	Version
CYANA	structure solution	2.1
Amber	refinement	9

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	1770
Number of shifts mapped to atoms	1770
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	83%

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	A	0.85±0.01	0±0/1029 (0.0± 0.0%)	1.47±0.03	2±1/1400 (0.2± 0.1%)
All	All	0.85	0/20580 (0.0%)	1.47	44/28000 (0.2%)

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	A	129	ASN	CA-CB-CG	7.33	119.93	112.60	20	7
1	A	123	HIS	CB-CG-CD2	-6.68	122.52	131.20	1	6
1	A	50	ASP	CA-CB-CG	6.46	119.06	112.60	19	1
1	A	56	LEU	N-CA-C	5.95	118.33	108.99	11	3
1	A	123	HIS	CA-CB-CG	5.80	119.60	113.80	7	3
1	A	86	ASP	CA-C-N	5.54	129.64	122.93	10	2
1	A	86	ASP	C-N-CA	5.54	129.64	122.93	10	2
1	A	50	ASP	CA-C-N	5.53	125.22	119.64	19	1
1	A	50	ASP	C-N-CA	5.53	125.22	119.64	19	1
1	A	156	TRP	CA-C-N	5.52	127.65	122.85	2	3
1	A	156	TRP	C-N-CA	5.52	127.65	122.85	2	3
1	A	42	GLU	CA-C-N	5.36	127.78	120.54	12	2
1	A	42	GLU	C-N-CA	5.36	127.78	120.54	12	2
1	A	94	ASN	CA-CB-CG	5.34	117.94	112.60	6	1
1	A	33	GLN	CA-C-N	5.31	129.66	122.07	7	1
1	A	33	GLN	C-N-CA	5.31	129.66	122.07	7	1
1	A	62	ASP	CA-CB-CG	5.21	117.81	112.60	6	1
1	A	95	PRO	CA-C-N	5.16	125.67	119.94	6	1
1	A	95	PRO	C-N-CA	5.16	125.67	119.94	6	1
1	A	74	HIS	CB-CG-CD2	-5.15	124.51	131.20	9	1
1	A	129	ASN	OD1-CG-ND2	-5.14	117.46	122.60	4	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1016	1024	1022	1±1
All	All	20320	20480	20440	29

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:A:140:LEU:HD22	1:A:143:LEU:HD12	0.67	1.65	2	1
1:A:26:VAL:HG21	1:A:140:LEU:HD23	0.62	1.71	8	5
1:A:26:VAL:HG11	1:A:140:LEU:HD23	0.58	1.76	2	1
1:A:54:VAL:HG13	1:A:126:LEU:HD21	0.58	1.76	1	1
1:A:23:LEU:HD11	1:A:58:LEU:CD1	0.53	2.34	11	1
1:A:140:LEU:HD22	1:A:143:LEU:HD13	0.52	1.82	7	6
1:A:87:ILE:HD12	1:A:87:ILE:H	0.48	1.68	18	1
1:A:54:VAL:HA	1:A:128:THR:HG22	0.47	1.87	6	1
1:A:82:CYS:SG	1:A:89:ILE:HG21	0.46	2.50	18	1
1:A:57:CYS:SG	1:A:126:LEU:HD22	0.46	2.51	19	1
1:A:19:VAL:HG21	1:A:146:PHE:CD2	0.45	2.46	4	5
1:A:30:ALA:HB1	1:A:36:ILE:HG21	0.44	1.90	1	1
1:A:43:ALA:CB	1:A:78:ILE:HG22	0.43	2.43	8	1
1:A:162:LEU:HD13	1:A:162:LEU:H	0.43	1.73	17	1
1:A:59:LEU:HD12	1:A:75:PHE:CE1	0.42	2.49	15	1
1:A:54:VAL:HG13	1:A:87:ILE:HG12	0.41	1.93	20	1

6.3 Torsion angles

6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	128/165 (78%)	118±2 (92±2%)	9±3 (7±2%)	1±1 (1±1%)	26	74
All	All	2560/3300 (78%)	2362 (92%)	184 (7%)	14 (1%)	26	74

All 9 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	54	VAL	4
1	A	105	GLU	3
1	A	137	ASP	1
1	A	156	TRP	1
1	A	51	PRO	1
1	A	104	LEU	1
1	A	40	VAL	1
1	A	86	ASP	1
1	A	154	ASP	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	116/144 (81%)	98±3 (85±3%)	18±3 (15±3%)	5	41
All	All	2320/2880 (81%)	1966 (85%)	354 (15%)	5	41

All 71 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	140	LEU	20
1	A	143	LEU	17
1	A	52	ASP	14
1	A	27	LEU	13
1	A	98	LEU	12
1	A	142	GLN	12
1	A	97	ARG	11
1	A	46	LEU	10
1	A	103	LEU	9

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Mol	Chain	Res	Type	Models (Total)
1	A	152	TYR	9
1	A	58	LEU	9
1	A	24	GLU	8
1	A	94	ASN	8
1	A	100	GLU	8
1	A	67	ARG	8
1	A	101	LEU	8
1	A	126	LEU	8
1	A	102	LEU	7
1	A	162	LEU	7
1	A	14	GLU	6
1	A	37	THR	6
1	A	129	ASN	6
1	A	18	LYS	6
1	A	65	ASP	6
1	A	90	LEU	6
1	A	89	ILE	5
1	A	71	LEU	5
1	A	155	GLN	5
1	A	165	ARG	5
1	A	88	ASN	5
1	A	125	VAL	5
1	A	137	ASP	5
1	A	87	ILE	4
1	A	128	THR	4
1	A	36	ILE	4
1	A	48	ASN	4
1	A	59	LEU	4
1	A	56	LEU	4
1	A	161	ASN	4
1	A	79	GLN	4
1	A	54	VAL	4
1	A	45	LYS	3
1	A	69	VAL	3
1	A	15	ARG	3
1	A	78	ILE	3
1	A	105	GLU	3
1	A	156	TRP	3
1	A	47	LEU	2
1	A	122	LEU	2
1	A	53	ASN	2
1	A	160	ILE	2

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Mol	Chain	Res	Type	Models (Total)
1	A	85	ASN	2
1	A	153	MET	2
1	A	124	CYS	2
1	A	16	MET	1
1	A	104	LEU	1
1	A	141	SER	1
1	A	164	GLU	1
1	A	31	LEU	1
1	A	150	SER	1
1	A	40	VAL	1
1	A	55	VAL	1
1	A	123	HIS	1
1	A	151	ARG	1
1	A	25	GLU	1
1	A	23	LEU	1
1	A	68	ASP	1
1	A	91	ARG	1
1	A	62	ASP	1
1	A	28	SER	1
1	A	57	CYS	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry ⓘ

There are no ligands in this entry.

6.7 Other polymers [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

The completeness of assignment taking into account all chemical shift lists is 83% for the well-defined parts and 80% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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

Total number of shifts	1770
Number of shifts mapped to atoms	1770
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	151	-0.78 ± 0.14	Should be applied
$^{13}\text{C}_\beta$	143	-0.46 ± 0.10	None needed (< 0.5 ppm)
$^{13}\text{C}'$	150	-0.03 ± 0.12	None needed (< 0.5 ppm)
^{15}N	143	0.06 ± 0.21	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 83%, i.e. 1494 atoms were assigned a chemical shift out of a possible 1794. 0 out of 34 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	608/638 (95%)	244/256 (95%)	246/258 (95%)	118/124 (95%)
Sidechain	842/1080 (78%)	581/705 (82%)	253/336 (75%)	8/39 (21%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	44/76 (58%)	22/37 (59%)	21/34 (62%)	1/5 (20%)
Overall	1494/1794 (83%)	847/998 (85%)	520/628 (83%)	127/168 (76%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 80%, i.e. 1770 atoms were assigned a chemical shift out of a possible 2216. 0 out of 35 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	742/813 (91%)	298/327 (91%)	301/330 (91%)	143/156 (92%)
Sidechain	966/1297 (74%)	661/844 (78%)	297/409 (73%)	8/44 (18%)
Aromatic	62/106 (58%)	31/52 (60%)	29/46 (63%)	2/8 (25%)
Overall	1770/2216 (80%)	990/1223 (81%)	627/785 (80%)	153/208 (74%)

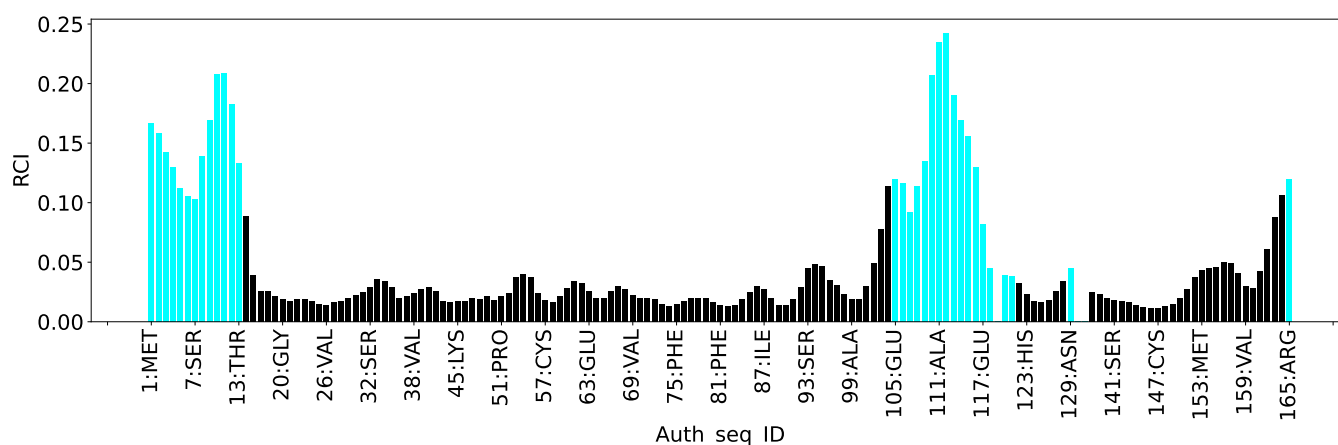
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1097
Intra-residue ($ i-j =0$)	177
Sequential ($ i-j =1$)	275
Medium range ($ i-j >1$ and $ i-j <5$)	251
Long range ($ i-j \geq 5$)	180
Inter-chain	0
Hydrogen bond restraints	214
Disulfide bond restraints	0
Total dihedral-angle restraints	520
Number of unmapped restraints	0
Number of restraints per residue	9.8
Number of long range restraints per residue ¹	1.4

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)	34.6	0.2
0.2-0.5 (Medium)	44.0	0.5
>0.5 (Large)	26.0	3.24

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)	5.0	9.84
10.0-20.0 (Medium)	2.4	19.93
>20.0 (Large)	0.7	40.39

9 Distance violation analysis ⓘ

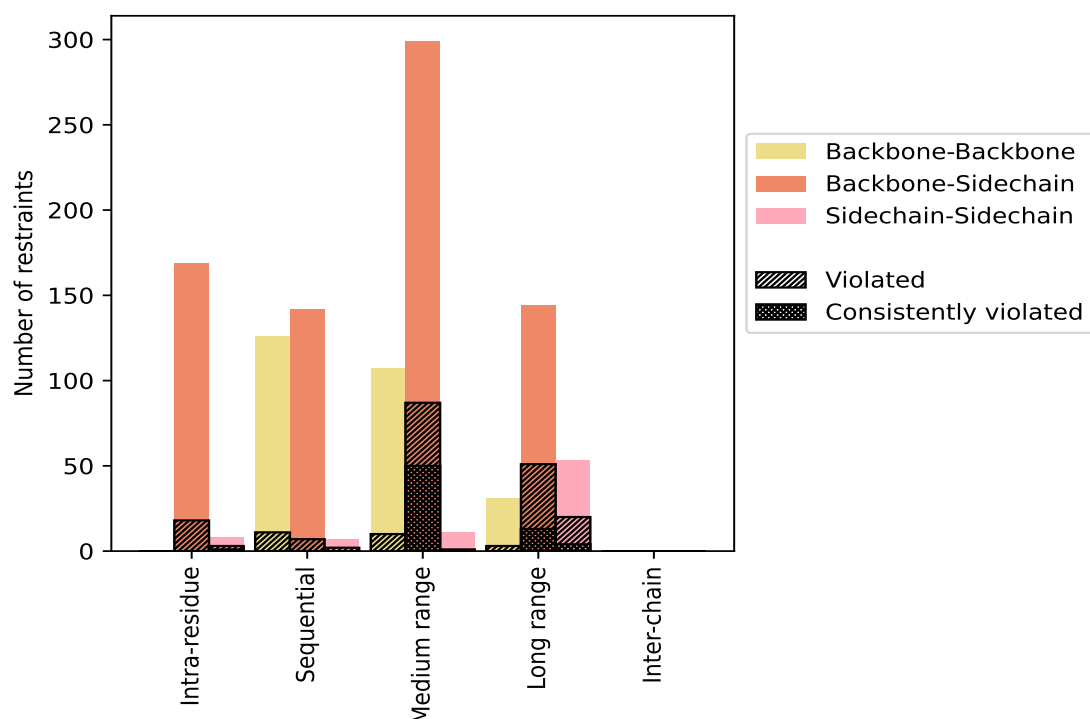
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	177	16.1	21	11.9	1.9	1	0.6	0.1
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	169	15.4	18	10.7	1.6	0	0.0	0.0
Sidechain-Sidechain	8	0.7	3	37.5	0.3	1	12.5	0.1
Sequential (i-j =1)	275	25.1	20	7.3	1.8	0	0.0	0.0
Backbone-Backbone	126	11.5	11	8.7	1.0	0	0.0	0.0
Backbone-Sidechain	142	12.9	7	4.9	0.6	0	0.0	0.0
Sidechain-Sidechain	7	0.6	2	28.6	0.2	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	251	22.9	32	12.7	2.9	2	0.8	0.2
Backbone-Backbone	107	9.8	10	9.3	0.9	0	0.0	0.0
Backbone-Sidechain	133	12.1	21	15.8	1.9	2	1.5	0.2
Sidechain-Sidechain	11	1.0	1	9.1	0.1	0	0.0	0.0
Long range (i-j ≥5)	180	16.4	54	30.0	4.9	5	2.8	0.5
Backbone-Backbone	31	2.8	3	9.7	0.3	0	0.0	0.0
Backbone-Sidechain	96	8.8	31	32.3	2.8	1	1.0	0.1
Sidechain-Sidechain	53	4.8	20	37.7	1.8	4	7.5	0.4
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	214	19.5	86	40.2	7.8	60	28.0	5.5
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1097	100.0	213	19.4	19.4	68	6.2	6.2
Backbone-Backbone	264	24.1	24	9.1	2.2	0	0.0	0.0
Backbone-Sidechain	754	68.7	163	21.6	14.9	63	8.4	5.7
Sidechain-Sidechain	79	7.2	26	32.9	2.4	5	6.3	0.5

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	5	8	60	36	0	109	0.38	1.76	0.3	0.32
2	5	5	64	30	0	104	0.38	2.53	0.36	0.31
3	5	5	65	34	0	109	0.36	1.7	0.28	0.3
4	5	6	64	36	0	111	0.36	2.09	0.3	0.28
5	5	6	62	34	0	107	0.38	1.99	0.3	0.29
6	3	5	63	36	0	107	0.33	1.6	0.22	0.29
7	5	4	61	33	0	103	0.36	1.4	0.23	0.31
8	4	6	62	32	0	104	0.37	1.82	0.29	0.32
9	5	6	62	33	0	106	0.37	2.18	0.33	0.28
10	7	5	60	37	0	109	0.35	1.32	0.21	0.29

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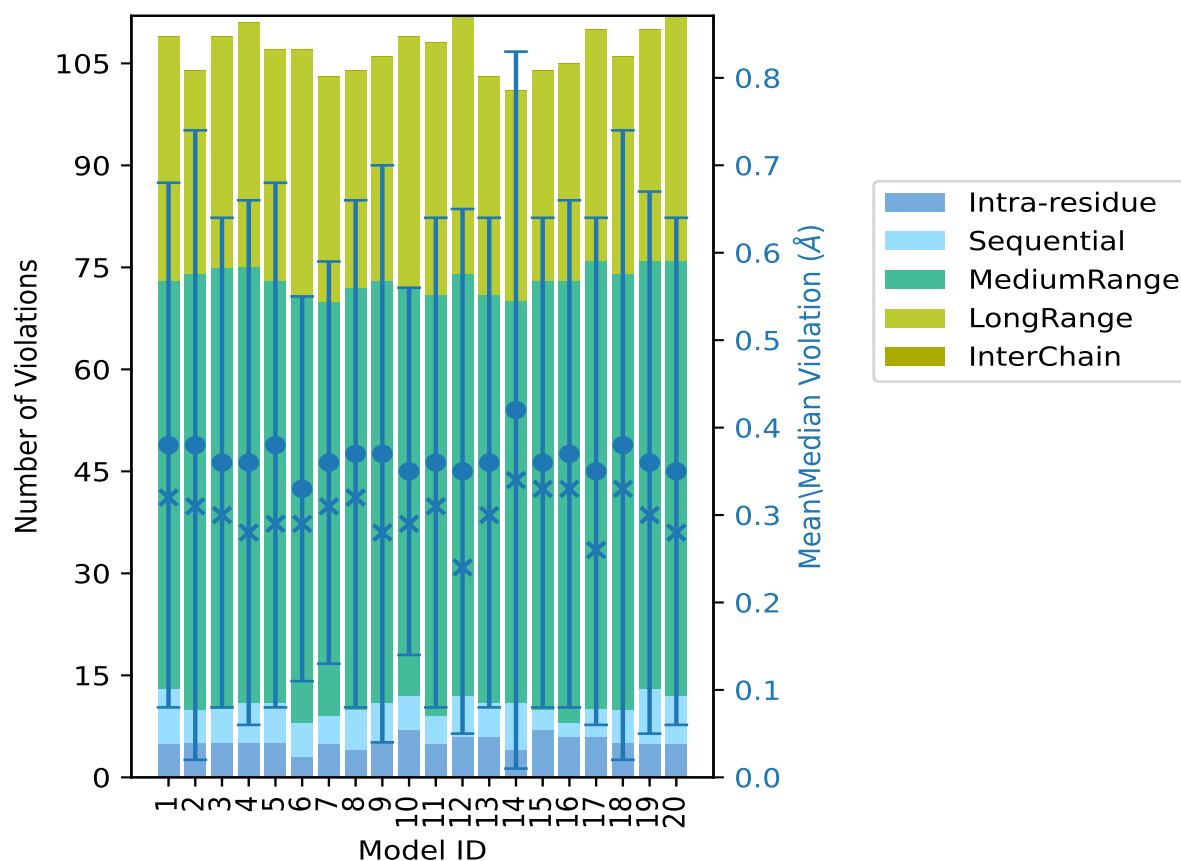
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	5	4	62	37	0	108	0.36	1.73	0.28	0.31
12	6	6	62	38	0	112	0.35	1.91	0.3	0.24
13	6	5	60	32	0	103	0.36	1.94	0.28	0.3
14	4	7	59	31	0	101	0.42	3.24	0.41	0.34
15	7	3	63	31	0	104	0.36	2.1	0.28	0.33
16	6	2	65	32	0	105	0.37	1.9	0.29	0.33
17	6	4	66	34	0	110	0.35	1.91	0.29	0.26
18	5	5	64	32	0	106	0.38	3.16	0.36	0.33
19	5	8	63	34	0	110	0.36	2.29	0.31	0.3
20	5	7	64	36	0	112	0.35	1.88	0.29	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 ⓘ



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

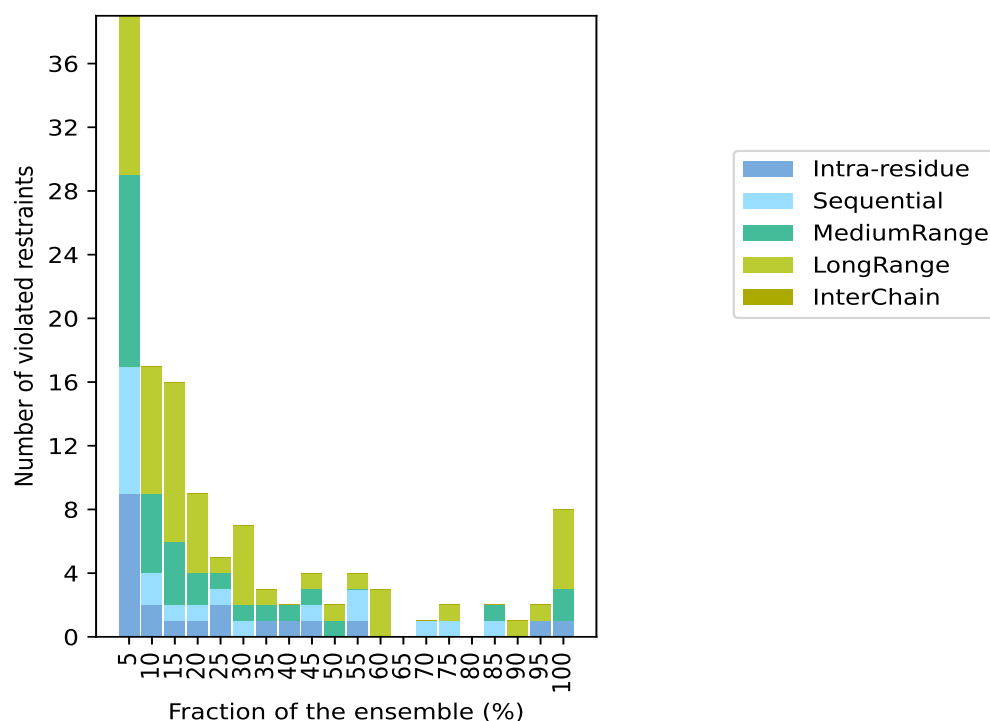
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 756(IR:156, SQ:255, MR:219, LR:126, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
9	8	12	10	0	39	1	5.0
2	2	5	8	0	17	2	10.0
1	1	4	10	0	16	3	15.0
1	1	2	5	0	9	4	20.0
2	1	1	1	0	5	5	25.0
0	1	1	5	0	7	6	30.0
1	0	1	1	0	3	7	35.0
1	0	1	0	0	2	8	40.0
1	1	1	1	0	4	9	45.0
0	0	1	1	0	2	10	50.0
1	2	0	1	0	4	11	55.0
0	0	0	3	0	3	12	60.0
0	0	0	0	0	0	13	65.0
0	1	0	0	0	1	14	70.0
0	1	0	1	0	2	15	75.0
0	0	0	0	0	0	16	80.0
0	1	1	0	0	2	17	85.0
0	0	0	1	0	1	18	90.0
1	0	0	1	0	2	19	95.0
1	0	2	5	0	8	20	100.0

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

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

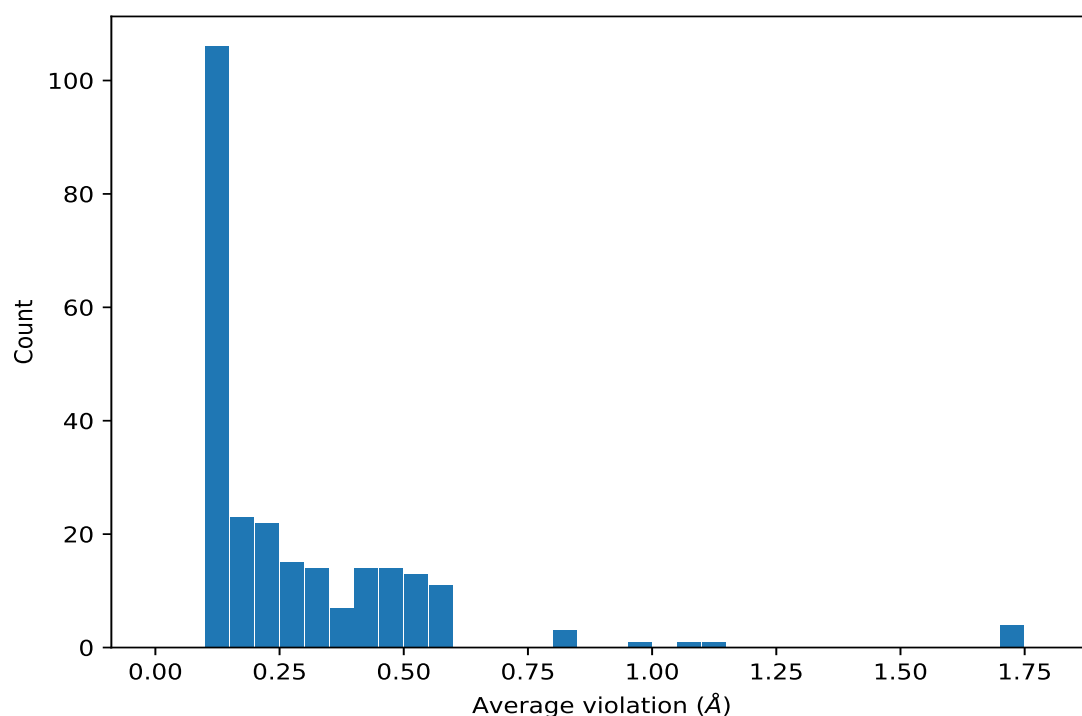
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	20	1.72	0.2	1.74
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	20	1.71	0.7	1.72
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	20	1.71	0.7	1.72
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	20	1.71	0.7	1.72
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	20	1.14	0.11	1.12
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	20	1.08	0.5	0.98
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	20	0.98	0.37	0.88
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	20	0.6	0.07	0.61
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	20	0.57	0.08	0.59
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	20	0.56	0.1	0.56
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	20	0.56	0.05	0.56
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	20	0.55	0.03	0.56
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	20	0.55	0.06	0.56
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	20	0.55	0.02	0.55
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	20	0.54	0.04	0.55
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	20	0.53	0.1	0.53

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	20	0.53	0.1	0.53
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	20	0.53	0.1	0.53
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	20	0.53	0.1	0.53
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	20	0.53	0.1	0.53
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	20	0.53	0.1	0.53
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	20	0.53	0.03	0.52
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	20	0.52	0.09	0.55
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	20	0.52	0.06	0.54
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	20	0.52	0.05	0.54
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	20	0.51	0.05	0.52
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	20	0.5	0.08	0.5
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	20	0.49	0.1	0.54
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	20	0.49	0.09	0.53
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	20	0.49	0.06	0.5
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	20	0.48	0.12	0.52
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	20	0.47	0.08	0.51
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	20	0.47	0.09	0.5
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	20	0.45	0.09	0.47
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	20	0.45	0.07	0.47
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	20	0.44	0.09	0.47
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	20	0.44	0.12	0.49
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	20	0.44	0.08	0.44
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	20	0.43	0.1	0.48
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	20	0.42	0.05	0.42
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	20	0.42	0.12	0.44
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	20	0.42	0.1	0.42
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	20	0.4	0.14	0.44
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	20	0.39	0.11	0.42
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	20	0.38	0.09	0.38
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	20	0.37	0.09	0.37
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	20	0.37	0.11	0.35
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	20	0.37	0.07	0.34
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	20	0.36	0.09	0.34
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	20	0.35	0.06	0.35
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	20	0.35	0.09	0.33
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	20	0.35	0.14	0.33
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	20	0.35	0.12	0.34
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	20	0.33	0.09	0.32
(2,157)	1:28:A:SER:O	1:32:A:SER:N	20	0.33	0.13	0.29
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	20	0.33	0.06	0.34
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	20	0.33	0.07	0.32
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	20	0.33	0.13	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	20	0.32	0.11	0.3
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	20	0.32	0.08	0.3
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	20	0.29	0.12	0.28
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	20	0.28	0.06	0.28
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	20	0.28	0.11	0.24
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	20	0.28	0.07	0.26
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	20	0.27	0.08	0.26
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	20	0.27	0.1	0.28
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	20	0.27	0.07	0.26
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	20	0.26	0.08	0.26
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	20	0.26	0.09	0.23
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	20	0.24	0.11	0.2
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	20	0.23	0.1	0.2
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	20	0.2	0.04	0.2
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	20	0.2	0.05	0.18
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	20	0.2	0.05	0.18
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	20	0.18	0.02	0.18
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	20	0.18	0.05	0.18
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	19	0.37	0.13	0.39
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	19	0.28	0.14	0.29
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	19	0.21	0.03	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	19	0.21	0.03	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	19	0.21	0.03	0.21
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	19	0.2	0.09	0.18
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	19	0.19	0.05	0.19
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	19	0.15	0.02	0.15
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	18	0.26	0.11	0.23
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	18	0.18	0.04	0.18
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	18	0.17	0.04	0.16
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	17	0.24	0.08	0.24
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	17	0.23	0.11	0.21
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	17	0.13	0.02	0.13
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	17	0.12	0.01	0.12
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	16	0.25	0.12	0.27
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	16	0.16	0.05	0.14
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	15	0.17	0.05	0.15
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	15	0.15	0.03	0.16
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	15	0.15	0.03	0.16
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	15	0.15	0.03	0.16
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	15	0.13	0.02	0.12
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	14	0.12	0.01	0.12
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	12	0.84	0.49	0.72

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	12	0.84	0.49	0.72
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	12	0.84	0.49	0.72
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	12	0.16	0.03	0.16
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	12	0.13	0.02	0.12
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	11	0.3	0.05	0.3
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	11	0.27	0.02	0.27
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	11	0.17	0.07	0.14
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	11	0.17	0.07	0.14
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	11	0.17	0.07	0.14
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	11	0.14	0.03	0.13
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	10	0.45	0.24	0.49
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	10	0.45	0.24	0.49
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	10	0.45	0.24	0.49
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	10	0.45	0.24	0.49
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	10	0.45	0.24	0.49
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	10	0.45	0.24	0.49
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	10	0.15	0.06	0.12
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	10	0.11	0.01	0.11
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	9	0.57	0.33	0.45
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	9	0.19	0.03	0.18
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	9	0.17	0.02	0.17
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	9	0.13	0.02	0.13
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	8	0.16	0.03	0.17
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	8	0.16	0.02	0.16
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	8	0.13	0.03	0.11
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	8	0.11	0.01	0.12
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	7	0.15	0.03	0.14
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	7	0.13	0.01	0.13
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	7	0.13	0.02	0.12
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	6	0.21	0.09	0.21
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	6	0.21	0.09	0.21
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	6	0.21	0.09	0.21
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	6	0.21	0.09	0.21
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	6	0.21	0.09	0.21
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	6	0.21	0.09	0.21
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	6	0.15	0.04	0.13
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	6	0.14	0.03	0.13
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	6	0.14	0.03	0.13
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	6	0.14	0.03	0.13
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	6	0.14	0.02	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	6	0.14	0.02	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	6	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	6	0.14	0.03	0.13
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	6	0.13	0.02	0.12
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	6	0.12	0.01	0.12
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	6	0.12	0.01	0.12
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	6	0.12	0.01	0.12
(1,475)	1:128:A:THR:H	1:128:A:THR:HG21	5	0.21	0.03	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG22	5	0.21	0.03	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG23	5	0.21	0.03	0.23
(1,421)	1:106:A:THR:H	1:106:A:THR:HG21	5	0.18	0.06	0.16
(1,421)	1:106:A:THR:H	1:106:A:THR:HG22	5	0.18	0.06	0.16
(1,421)	1:106:A:THR:H	1:106:A:THR:HG23	5	0.18	0.06	0.16
(1,720)	1:61:A:ALA:HB1	1:75:A:PHE:HD1	5	0.13	0.02	0.13
(1,720)	1:61:A:ALA:HB2	1:75:A:PHE:HD1	5	0.13	0.02	0.13
(1,720)	1:61:A:ALA:HB3	1:75:A:PHE:HD1	5	0.13	0.02	0.13
(1,774)	1:98:A:LEU:HD21	1:100:A:GLU:H	5	0.13	0.02	0.13
(1,774)	1:98:A:LEU:HD22	1:100:A:GLU:H	5	0.13	0.02	0.13
(1,774)	1:98:A:LEU:HD23	1:100:A:GLU:H	5	0.13	0.02	0.13
(1,152)	1:35:A:THR:HA	1:36:A:ILE:H	5	0.12	0.01	0.11
(1,431)	1:108:A:ALA:HA	1:111:A:ALA:H	4	0.16	0.05	0.14
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD11	4	0.14	0.04	0.13
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD12	4	0.14	0.04	0.13
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD13	4	0.14	0.04	0.13
(2,62)	1:77:A:LEU:O	1:81:A:PHE:N	4	0.14	0.02	0.14
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD11	4	0.14	0.02	0.14
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD12	4	0.14	0.02	0.14
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD13	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD11	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD12	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD13	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD11	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD12	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD13	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD11	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD12	4	0.14	0.02	0.14
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD13	4	0.14	0.02	0.14
(2,22)	1:25:A:GLU:O	1:29:A:LYS:N	4	0.13	0.02	0.12
(2,115)	1:59:A:LEU:N	1:90:A:LEU:O	4	0.13	0.02	0.12
(1,450)	1:116:A:ALA:HB1	1:117:A:GLU:H	4	0.13	0.02	0.13
(1,450)	1:116:A:ALA:HB2	1:117:A:GLU:H	4	0.13	0.02	0.13
(1,450)	1:116:A:ALA:HB3	1:117:A:GLU:H	4	0.13	0.02	0.13
(1,665)	1:26:A:VAL:HG21	1:143:A:LEU:H	4	0.12	0.01	0.12
(1,665)	1:26:A:VAL:HG22	1:143:A:LEU:H	4	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,665)	1:26:A:VAL:HG23	1:143:A:LEU:H	4	0.12	0.01	0.12
(1,734)	1:71:A:LEU:HD21	1:75:A:PHE:HB3	4	0.12	0.01	0.13
(1,734)	1:71:A:LEU:HD22	1:75:A:PHE:HB3	4	0.12	0.01	0.13
(1,734)	1:71:A:LEU:HD23	1:75:A:PHE:HB3	4	0.12	0.01	0.13
(1,320)	1:81:A:PHE:HB3	1:81:A:PHE:HD1	4	0.12	0.02	0.11
(2,31)	1:30:A:ALA:O	1:34:A:ARG:H	4	0.12	0.01	0.11
(1,642)	1:91:A:ARG:H	1:157:A:VAL:HA	4	0.11	0.01	0.11
(2,69)	1:81:A:PHE:O	1:84:A:GLU:H	4	0.11	0.0	0.11
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD11	3	0.56	0.62	0.14
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD12	3	0.56	0.62	0.14
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD13	3	0.56	0.62	0.14
(1,701)	1:47:A:LEU:HD11	1:81:A:PHE:HE1	3	0.42	0.22	0.46
(1,701)	1:47:A:LEU:HD12	1:81:A:PHE:HE1	3	0.42	0.22	0.46
(1,701)	1:47:A:LEU:HD13	1:81:A:PHE:HE1	3	0.42	0.22	0.46
(1,701)	1:47:A:LEU:HD21	1:81:A:PHE:HE1	3	0.42	0.22	0.46
(1,701)	1:47:A:LEU:HD22	1:81:A:PHE:HE1	3	0.42	0.22	0.46
(1,701)	1:47:A:LEU:HD23	1:81:A:PHE:HE1	3	0.42	0.22	0.46
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB1	3	0.32	0.03	0.33
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB2	3	0.32	0.03	0.33
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB3	3	0.32	0.03	0.33
(1,691)	1:40:A:VAL:HG11	1:75:A:PHE:HB3	3	0.16	0.07	0.11
(1,691)	1:40:A:VAL:HG12	1:75:A:PHE:HB3	3	0.16	0.07	0.11
(1,691)	1:40:A:VAL:HG13	1:75:A:PHE:HB3	3	0.16	0.07	0.11
(1,751)	1:85:A:ASN:H	1:87:A:ILE:H	3	0.14	0.01	0.15
(1,422)	1:106:A:THR:H	1:106:A:THR:HB	3	0.14	0.0	0.14
(1,755)	1:90:A:LEU:HB2	1:159:A:VAL:HA	3	0.14	0.03	0.12
(1,634)	1:58:A:LEU:H	1:125:A:VAL:HB	3	0.13	0.02	0.13
(1,686)	1:39:A:GLY:H	1:125:A:VAL:HB	3	0.13	0.02	0.13
(1,738)	1:73:A:ILE:HB	1:76:A:THR:H	3	0.13	0.01	0.13
(1,683)	1:37:A:THR:HA	1:42:A:GLU:HB3	3	0.12	0.01	0.12
(1,401)	1:102:A:LEU:HA	1:103:A:LEU:H	3	0.12	0.01	0.12
(1,631)	1:56:A:LEU:HB2	1:127:A:VAL:H	3	0.12	0.03	0.1
(2,20)	1:24:A:GLU:O	1:28:A:SER:N	3	0.12	0.01	0.12
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD11	3	0.12	0.01	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD12	3	0.12	0.01	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD13	3	0.12	0.01	0.11
(1,778)	1:104:A:LEU:HG	1:165:A:ARG:HE	3	0.11	0.01	0.11
(1,679)	1:31:A:LEU:HG	1:33:A:GLN:H	3	0.11	0.01	0.1
(1,430)	1:108:A:ALA:HA	1:109:A:GLY:H	2	0.27	0.05	0.27
(1,173)	1:45:A:LYS:H	1:45:A:LYS:HG2	2	0.2	0.01	0.2
(1,173)	1:45:A:LYS:H	1:45:A:LYS:HG3	2	0.2	0.01	0.2
(1,414)	1:104:A:LEU:HB2	1:106:A:THR:H	2	0.18	0.05	0.18

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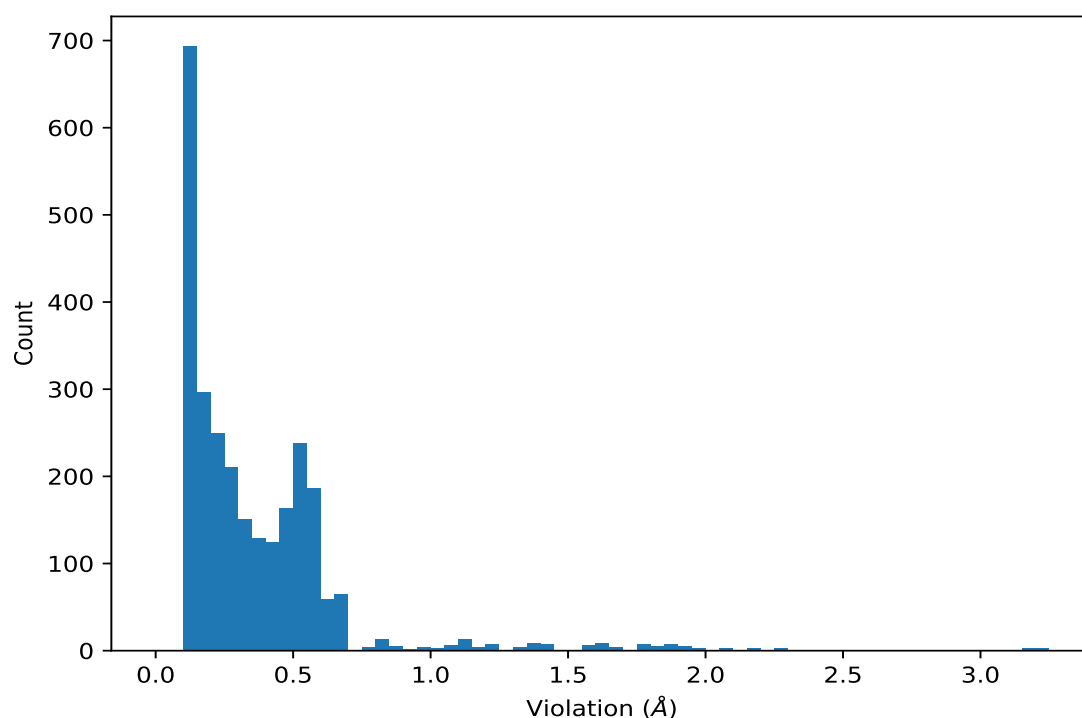
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,708)	1:56:A:LEU:HG	1:89:A:ILE:HA	2	0.15	0.01	0.15
(1,8)	1:4:A:GLU:HA	1:6:A:PHE:H	2	0.14	0.02	0.14
(1,783)	1:127:A:VAL:HG21	1:135:A:TRP:HD1	2	0.14	0.01	0.14
(1,783)	1:127:A:VAL:HG22	1:135:A:TRP:HD1	2	0.14	0.01	0.14
(1,783)	1:127:A:VAL:HG23	1:135:A:TRP:HD1	2	0.14	0.01	0.14
(1,792)	1:129:A:ASN:HB2	1:135:A:TRP:HE1	2	0.14	0.02	0.14
(2,133)	1:91:A:ARG:N	1:158:A:PRO:O	2	0.14	0.02	0.14
(1,752)	1:85:A:ASN:HB2	1:87:A:ILE:H	2	0.12	0.01	0.12
(1,611)	1:37:A:THR:HB	1:126:A:LEU:H	2	0.12	0.02	0.12
(1,387)	1:99:A:ALA:H	1:102:A:LEU:H	2	0.12	0.0	0.12
(1,566)	1:154:A:ASP:H	1:154:A:ASP:HB2	2	0.12	0.0	0.12
(1,658)	1:23:A:LEU:HD11	1:58:A:LEU:H	2	0.12	0.0	0.12
(1,658)	1:23:A:LEU:HD12	1:58:A:LEU:H	2	0.12	0.0	0.12
(1,658)	1:23:A:LEU:HD13	1:58:A:LEU:H	2	0.12	0.0	0.12
(1,728)	1:64:A:ASP:HB3	1:67:A:ARG:H	2	0.12	0.0	0.12
(1,413)	1:104:A:LEU:HB2	1:105:A:GLU:H	2	0.11	0.01	0.11
(1,739)	1:75:A:PHE:HZ	1:123:A:HIS:HB3	2	0.11	0.0	0.11
(1,717)	1:60:A:ALA:HB1	1:97:A:ARG:H	2	0.11	0.0	0.11
(1,717)	1:60:A:ALA:HB2	1:97:A:ARG:H	2	0.11	0.0	0.11
(1,717)	1:60:A:ALA:HB3	1:97:A:ARG:H	2	0.11	0.0	0.11
(1,798)	1:140:A:LEU:HD11	1:145:A:CYS:H	2	0.11	0.0	0.11
(1,798)	1:140:A:LEU:HD12	1:145:A:CYS:H	2	0.11	0.0	0.11
(1,798)	1:140:A:LEU:HD13	1:145:A:CYS:H	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	14	3.24
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	14	3.24
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	14	3.24
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	18	3.16
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	18	3.16
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	18	3.16
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	2	2.53
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	19	2.29
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	19	2.29
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	19	2.29
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	9	2.18
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	9	2.18
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	9	2.18
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	15	2.1
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	4	2.09
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	4	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	4	2.09
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	2	2.04
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	5	1.99
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	5	1.99
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	5	1.99
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	13	1.94
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	17	1.91
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	17	1.91
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	17	1.91
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	12	1.91
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	16	1.9
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	16	1.9
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	16	1.9
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	2	1.89
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	2	1.89
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	2	1.89
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	20	1.88
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	8	1.82
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	8	1.82
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	8	1.82
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	9	1.82
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	8	1.81
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	17	1.79
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	19	1.78
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	12	1.77
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	12	1.77
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	12	1.77
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	14	1.76
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	1	1.76
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	18	1.76
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	11	1.73
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	3	1.7
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	1	1.68
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	1	1.68
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	1	1.68
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	20	1.65
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	3	1.64
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	3	1.64
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	3	1.64
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	5	1.62
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	13	1.61
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	13	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	13	1.61
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	6	1.6
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	9	1.59
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	4	1.58
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	16	1.57
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	20	1.55
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	20	1.55
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	20	1.55
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	1	1.54
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	11	1.47
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	14	1.45
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD11	4	1.44
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD12	4	1.44
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD13	4	1.44
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	11	1.41
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	11	1.41
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	11	1.41
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	14	1.4
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	7	1.4
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	12	1.39
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	3	1.38
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	15	1.37
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	15	1.37
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	15	1.37
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	5	1.36
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	8	1.35
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	12	1.34
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	16	1.33
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	18	1.32
(1,646)	1:19:A:VAL:H	1:146:A:PHE:HD1	10	1.32
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	14	1.29
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	1	1.24
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	5	1.24
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	7	1.24
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	7	1.24
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	7	1.24
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	14	1.23
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	14	1.23
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	14	1.23
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	2	1.2
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	17	1.2
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	15	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	4	1.16
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	3	1.15
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	11	1.13
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	6	1.13
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	9	1.12
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	9	1.12
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	9	1.12
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	9	1.12
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	17	1.11
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	13	1.11
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	12	1.1
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	12	1.1
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	12	1.1
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	16	1.1
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	19	1.08
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	5	1.06
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	20	1.06
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	3	1.05
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	10	1.05
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	13	1.05
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	11	1.04
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	1	1.03
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	19	1.01
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	19	0.98
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	13	0.97
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	8	0.97
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	4	0.96
(1,799)	1:143:A:LEU:HA	1:146:A:PHE:HD1	7	0.93
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	16	0.9
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	16	0.89
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	16	0.89
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	16	0.89
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	8	0.88
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	9	0.87
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	1	0.85
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	7	0.85
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	14	0.84
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	20	0.84
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	18	0.83
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	10	0.82
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	19	0.82
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	19	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	19	0.82
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	19	0.82
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	19	0.82
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	19	0.82
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	2	0.8
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	10	0.76
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	10	0.76
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	10	0.76
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	11	0.76
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	18	0.71
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	12	0.7
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	1	0.69
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	4	0.69
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	12	0.69
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	17	0.69
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	17	0.69
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	17	0.69
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	15	0.69
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	15	0.69
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	15	0.69
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	15	0.69
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	15	0.69
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	15	0.69
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	2	0.68
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	11	0.68
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	11	0.68
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	11	0.68
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	11	0.68
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	11	0.68
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	11	0.68
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	2	0.68
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	2	0.68
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	2	0.68
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	2	0.68
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	2	0.68
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	2	0.68
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	12	0.68
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	12	0.68
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	12	0.68
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	12	0.68
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	12	0.68
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	12	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	19	0.67
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	6	0.67
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	8	0.67
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	1	0.67
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	1	0.67
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	1	0.67
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	1	0.67
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	1	0.67
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	1	0.67
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	8	0.66
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	9	0.66
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	10	0.66
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	6	0.66
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	16	0.66
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	15	0.66
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	11	0.66
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	15	0.66
(1,701)	1:47:A:LEU:HD11	1:81:A:PHE:HE1	20	0.66
(1,701)	1:47:A:LEU:HD12	1:81:A:PHE:HE1	20	0.66
(1,701)	1:47:A:LEU:HD13	1:81:A:PHE:HE1	20	0.66
(1,701)	1:47:A:LEU:HD21	1:81:A:PHE:HE1	20	0.66
(1,701)	1:47:A:LEU:HD22	1:81:A:PHE:HE1	20	0.66
(1,701)	1:47:A:LEU:HD23	1:81:A:PHE:HE1	20	0.66
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	12	0.65
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	7	0.65
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	18	0.65
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	8	0.65
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	8	0.65
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	8	0.65
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	8	0.65
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	4	0.65
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	4	0.65
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	4	0.65
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	19	0.64
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	14	0.64
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	19	0.64
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	5	0.64
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	4	0.63
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	20	0.63
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	5	0.63
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	18	0.63
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	10	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	4	0.63
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	14	0.63
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	15	0.63
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	7	0.62
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	17	0.62
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	6	0.62
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	17	0.62
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	4	0.62
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	13	0.62
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	13	0.62
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	13	0.62
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	13	0.62
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	13	0.62
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	13	0.62
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	18	0.62
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	18	0.62
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	18	0.62
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	18	0.62
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	18	0.62
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	18	0.62
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	1	0.61
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	5	0.61
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	6	0.61
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	11	0.61
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	15	0.61
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	18	0.61
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	20	0.61
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	5	0.61
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	19	0.61
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	2	0.61
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	7	0.61
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	9	0.61
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	14	0.61
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	3	0.61
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	20	0.61
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	1	0.61
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	16	0.61
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	17	0.61
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	7	0.61
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	7	0.61
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	7	0.61
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	7	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	7	0.61
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	7	0.61
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	9	0.61
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	9	0.61
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	9	0.61
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	9	0.61
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	9	0.61
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	9	0.61
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	13	0.6
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	16	0.6
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	5	0.6
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	14	0.6
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	15	0.6
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	14	0.6
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	15	0.6
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	1	0.6
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	5	0.6
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	13	0.6
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	1	0.6
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	1	0.6
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	1	0.6
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	1	0.6
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	1	0.6
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	1	0.6
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	18	0.59
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	8	0.59
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	8	0.59
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	7	0.59
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	20	0.59
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	6	0.59
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	18	0.59
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	20	0.59
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	17	0.59
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	15	0.59
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	1	0.59
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	3	0.59
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	4	0.59
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	12	0.59
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	2	0.59
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	18	0.59
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	7	0.59
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	2	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	2	0.59
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	2	0.59
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	10	0.58
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	19	0.58
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	2	0.58
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	13	0.58
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	14	0.58
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	16	0.58
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	4	0.58
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	5	0.58
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	7	0.58
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	20	0.58
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	6	0.58
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	15	0.58
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	1	0.58
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	3	0.58
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	7	0.58
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	6	0.58
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	8	0.58
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	8	0.58
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	8	0.58
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	8	0.58
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	8	0.58
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	8	0.58
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	14	0.57
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	9	0.57
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	10	0.57
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	11	0.57
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	19	0.57
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	1	0.57
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	15	0.57
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	5	0.57
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	19	0.57
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	1	0.57
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	13	0.57
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	19	0.57
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	11	0.57
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	17	0.57
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	15	0.57
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	3	0.57
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	17	0.57
(2,157)	1:28:A:SER:O	1:32:A:SER:N	1	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	6	0.57
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	16	0.57
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	8	0.57
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	9	0.57
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	14	0.57
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	10	0.57
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	5	0.57
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	12	0.57
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	1	0.57
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	4	0.57
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	4	0.57
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	4	0.57
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	4	0.57
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	4	0.57
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	4	0.57
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	11	0.57
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	11	0.57
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	11	0.57
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	11	0.57
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	11	0.57
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	11	0.57
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	5	0.56
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	3	0.56
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	3	0.56
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	17	0.56
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	2	0.56
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	10	0.56
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	18	0.56
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	4	0.56
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	7	0.56
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	11	0.56
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	6	0.56
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	7	0.56
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	10	0.56
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	16	0.56
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	9	0.56
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	11	0.56
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	14	0.56
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	3	0.56
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	6	0.56
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	8	0.56
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	18	0.56
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	19	0.56
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	2	0.56
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	11	0.56
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	12	0.56
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	10	0.56
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	11	0.56
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	16	0.56
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	18	0.56
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	5	0.56
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	7	0.56
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	3	0.56
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	4	0.56
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	5	0.56
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	18	0.56
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	5	0.56
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	6	0.56
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	17	0.56
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	17	0.56
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	17	0.56
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	17	0.56
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	17	0.56
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	17	0.56
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	12	0.55
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	1	0.55
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	9	0.55
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	17	0.55
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	7	0.55
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	9	0.55
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	3	0.55
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	4	0.55
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	11	0.55
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	16	0.55
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	1	0.55
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	8	0.55
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	9	0.55
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	20	0.55
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	17	0.55
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	8	0.55
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	14	0.55
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	19	0.55
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	10	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	2	0.55
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	7	0.55
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	18	0.55
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	19	0.55
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	3	0.55
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	10	0.55
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	10	0.55
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	1	0.55
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	14	0.55
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	5	0.55
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	19	0.55
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	7	0.55
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	15	0.55
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	20	0.55
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	7	0.55
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	10	0.55
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	16	0.55
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	20	0.55
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	17	0.55
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	15	0.55
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	10	0.55
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	19	0.55
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	20	0.55
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	18	0.55
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	11	0.55
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	17	0.55
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	7	0.54
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	7	0.54
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	13	0.54
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	7	0.54
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	12	0.54
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	7	0.54
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	10	0.54
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	14	0.54
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	7	0.54
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	15	0.54
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	2	0.54
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	6	0.54
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	17	0.54
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	14	0.54
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	3	0.54
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	19	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	8	0.54
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	2	0.54
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	16	0.54
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	9	0.54
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	11	0.54
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	20	0.54
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	1	0.54
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	18	0.54
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	7	0.54
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	5	0.54
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	3	0.54
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	17	0.54
(2,157)	1:28:A:SER:O	1:32:A:SER:N	14	0.54
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	6	0.54
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	7	0.54
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	13	0.54
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	14	0.54
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	18	0.54
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	11	0.54
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	4	0.54
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	1	0.54
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	8	0.54
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	10	0.54
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	11	0.54
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	16	0.54
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	7	0.54
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	10	0.54
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	12	0.54
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	18	0.54
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	6	0.54
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	20	0.54
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	16	0.53
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	20	0.53
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	15	0.53
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	19	0.53
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	5	0.53
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	6	0.53
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	12	0.53
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	16	0.53
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	8	0.53
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	12	0.53
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	19	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	20	0.53
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	10	0.53
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	17	0.53
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	5	0.53
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	11	0.53
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	5	0.53
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	18	0.53
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	15	0.53
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	16	0.53
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	10	0.53
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	1	0.53
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	20	0.53
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	8	0.53
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	1	0.53
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	2	0.53
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	18	0.53
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	2	0.53
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	4	0.53
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	11	0.53
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	15	0.53
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	6	0.53
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	16	0.53
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	1	0.53
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	10	0.53
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	14	0.53
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	4	0.53
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	5	0.53
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	19	0.53
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	7	0.53
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	1	0.53
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	2	0.53
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	15	0.53
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	2	0.53
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	6	0.53
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	8	0.53
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	3	0.53
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	15	0.53
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	7	0.53
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	13	0.53
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	15	0.52
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	10	0.52
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	8	0.52
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	12	0.52
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	13	0.52
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	3	0.52
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	5	0.52
(2,196)	1:63:A:GLU:O	1:66:A:ASP:N	9	0.52
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	10	0.52
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	9	0.52
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	2	0.52
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	4	0.52
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	5	0.52
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	6	0.52
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	3	0.52
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	12	0.52
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	14	0.52
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	15	0.52
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	7	0.52
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	12	0.52
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	17	0.52
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	12	0.52
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	13	0.52
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	16	0.52
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	6	0.52
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	19	0.52
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	3	0.52
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	9	0.52
(2,157)	1:28:A:SER:O	1:32:A:SER:N	10	0.52
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	18	0.52
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	9	0.52
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	10	0.52
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	12	0.52
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	17	0.52
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	9	0.52
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	12	0.52
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	15	0.52
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	16	0.52
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	17	0.52
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	1	0.52
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	2	0.52
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	8	0.52
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	2	0.52
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	3	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	15	0.52
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	16	0.52
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	18	0.51
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	19	0.51
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	4	0.51
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	3	0.51
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	16	0.51
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	9	0.51
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	10	0.51
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	13	0.51
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	15	0.51
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	16	0.51
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	18	0.51
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	1	0.51
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	4	0.51
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	11	0.51
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	15	0.51
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	3	0.51
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	5	0.51
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	1	0.51
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	12	0.51
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	10	0.51
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	7	0.51
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	17	0.51
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	6	0.51
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	16	0.51
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	14	0.51
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	18	0.51
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	2	0.51
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	18	0.51
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	5	0.51
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	17	0.51
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	6	0.51
(2,157)	1:28:A:SER:O	1:32:A:SER:N	7	0.51
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	4	0.51
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	9	0.51
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	6	0.51
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	7	0.51
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	1	0.51
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	7	0.51
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	13	0.51
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	11	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	13	0.51
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	17	0.51
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	20	0.51
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	4	0.51
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	15	0.51
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	13	0.51
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	17	0.51
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	5	0.51
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	6	0.51
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	10	0.51
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	10	0.51
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	10	0.51
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	11	0.5
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	14	0.5
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	15	0.5
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	18	0.5
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	18	0.5
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	11	0.5
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	8	0.5
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	9	0.5
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	13	0.5
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	18	0.5
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	13	0.5
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	9	0.5
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	2	0.5
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	2	0.5
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	20	0.5
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	16	0.5
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	13	0.5
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	10	0.5
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	13	0.5
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	1	0.5
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	8	0.5
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	7	0.5
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	14	0.5
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	12	0.5
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	13	0.5
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	19	0.5
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	18	0.5
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	7	0.5
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	16	0.5
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	6	0.5
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	6	0.5
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	6	0.5
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	6	0.5
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	6	0.5
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	19	0.5
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	19	0.5
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	19	0.5
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	19	0.5
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	19	0.5
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	19	0.5
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	18	0.5
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	5	0.49
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	5	0.49
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	9	0.49
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	3	0.49
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	16	0.49
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	17	0.49
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	20	0.49
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	17	0.49
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	20	0.49
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	9	0.49
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	10	0.49
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	3	0.49
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	20	0.49
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	3	0.49
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	19	0.49
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	5	0.49
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	9	0.49
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	12	0.49
(2,157)	1:28:A:SER:O	1:32:A:SER:N	12	0.49
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	4	0.49
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	14	0.49
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	20	0.49
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	19	0.49
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	19	0.49
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	17	0.49
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	19	0.49
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	8	0.49
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	10	0.49
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	14	0.49
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	5	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	1	0.48
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	15	0.48
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	17	0.48
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	19	0.48
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	2	0.48
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	14	0.48
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	15	0.48
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	2	0.48
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	14	0.48
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	4	0.48
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	6	0.48
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	13	0.48
(2,177)	1:80:A:ALA:O	1:84:A:GLU:N	4	0.48
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	3	0.48
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	8	0.48
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	4	0.48
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	8	0.48
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	13	0.48
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	16	0.48
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	2	0.48
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	4	0.48
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	9	0.48
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	10	0.48
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	9	0.47
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	10	0.47
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	3	0.47
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	4	0.47
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	16	0.47
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	12	0.47
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	5	0.47
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	8	0.47
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	20	0.47
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	8	0.47
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	15	0.47
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	10	0.47
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	12	0.47
(2,150)	1:21:A:ASP:O	1:25:A:GLU:N	14	0.47
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	5	0.47
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	3	0.47
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	3	0.47
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	3	0.47
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	3	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	3	0.47
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	3	0.47
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	5	0.47
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	5	0.47
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	5	0.47
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	5	0.47
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	5	0.47
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	5	0.47
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	20	0.47
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	20	0.47
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	20	0.47
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	20	0.47
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	20	0.47
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	20	0.47
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	2	0.46
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	2	0.46
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	4	0.46
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	8	0.46
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	13	0.46
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	15	0.46
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	18	0.46
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	18	0.46
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	17	0.46
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	16	0.46
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	13	0.46
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	3	0.46
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	15	0.46
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	17	0.46
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	13	0.46
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	15	0.46
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	6	0.46
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	11	0.46
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	14	0.46
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	3	0.46
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	13	0.46
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	20	0.46
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	14	0.46
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	15	0.46
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	5	0.46
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	9	0.46
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	17	0.46
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,151)	1:22:A:ALA:O	1:26:A:VAL:N	6	0.46
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	9	0.46
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	12	0.46
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	19	0.46
(1,701)	1:47:A:LEU:HD11	1:81:A:PHE:HE1	18	0.46
(1,701)	1:47:A:LEU:HD12	1:81:A:PHE:HE1	18	0.46
(1,701)	1:47:A:LEU:HD13	1:81:A:PHE:HE1	18	0.46
(1,701)	1:47:A:LEU:HD21	1:81:A:PHE:HE1	18	0.46
(1,701)	1:47:A:LEU:HD22	1:81:A:PHE:HE1	18	0.46
(1,701)	1:47:A:LEU:HD23	1:81:A:PHE:HE1	18	0.46
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	1	0.45
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	3	0.45
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	12	0.45
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	19	0.45
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	8	0.45
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	5	0.45
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	8	0.45
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	2	0.45
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	7	0.45
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	13	0.45
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	13	0.45
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	6	0.45
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	17	0.45
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	2	0.45
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	12	0.45
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	14	0.45
(2,157)	1:28:A:SER:O	1:32:A:SER:N	17	0.45
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	8	0.45
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	13	0.45
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	14	0.45
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	4	0.45
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	5	0.45
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	5	0.45
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	5	0.45
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	3	0.45
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	4	0.45
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	4	0.45
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	4	0.45
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	4	0.45
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	4	0.45
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	4	0.45
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	16	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	16	0.45
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	16	0.45
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	16	0.45
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	16	0.45
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	16	0.45
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	7	0.45
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	17	0.45
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	6	0.44
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	1	0.44
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	13	0.44
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	7	0.44
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	6	0.44
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	16	0.44
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	10	0.44
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	16	0.44
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	18	0.44
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	8	0.44
(2,174)	1:77:A:LEU:O	1:81:A:PHE:N	10	0.44
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	12	0.44
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	10	0.44
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	15	0.44
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	2	0.44
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	9	0.44
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	9	0.44
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	4	0.44
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	5	0.44
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	14	0.44
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	4	0.43
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	14	0.43
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	4	0.43
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	11	0.43
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	18	0.43
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	20	0.43
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	9	0.43
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	18	0.43
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	5	0.43
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	19	0.43
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	17	0.43
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	8	0.43
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	18	0.43
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	1	0.43
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	19	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	7	0.43
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	8	0.43
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	9	0.43
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	4	0.43
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	11	0.43
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	17	0.43
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	14	0.43
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	9	0.43
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	10	0.43
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	13	0.42
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	17	0.42
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	20	0.42
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	4	0.42
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	14	0.42
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	12	0.42
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	1	0.42
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	3	0.42
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	8	0.42
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	2	0.42
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	12	0.42
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	20	0.42
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	8	0.42
(2,154)	1:25:A:GLU:O	1:29:A:LYS:N	19	0.42
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	2	0.42
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	5	0.42
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	4	0.42
(1,756)	1:90:A:LEU:HD11	1:146:A:PHE:HD1	6	0.42
(1,756)	1:90:A:LEU:HD12	1:146:A:PHE:HD1	6	0.42
(1,756)	1:90:A:LEU:HD13	1:146:A:PHE:HD1	6	0.42
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	11	0.41
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	6	0.41
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	3	0.41
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	6	0.41
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	1	0.41
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	10	0.41
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	2	0.41
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	4	0.41
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	10	0.41
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	5	0.41
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	3	0.41
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	15	0.41
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	11	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	14	0.41
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	8	0.41
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	9	0.41
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	8	0.41
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	11	0.41
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	20	0.41
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	20	0.41
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	20	0.41
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	20	0.41
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	20	0.41
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	20	0.41
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	14	0.41
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	14	0.41
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	14	0.41
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	14	0.41
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	14	0.41
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	14	0.41
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	16	0.4
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	1	0.4
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	12	0.4
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	15	0.4
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	9	0.4
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	20	0.4
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	11	0.4
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	3	0.4
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	16	0.4
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	12	0.4
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	12	0.4
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	14	0.4
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	10	0.4
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	5	0.4
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	20	0.4
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	11	0.4
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	4	0.4
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	20	0.4
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	16	0.4
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	7	0.4
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	12	0.4
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	15	0.4
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	1	0.4
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	6	0.4
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	14	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	1	0.4
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	7	0.4
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	15	0.4
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	11	0.4
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	6	0.4
(2,213)	1:91:A:ARG:O	1:160:A:ILE:N	3	0.39
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	8	0.39
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	13	0.39
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	17	0.39
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	15	0.39
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	16	0.39
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	18	0.39
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	4	0.39
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	8	0.39
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	18	0.39
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	2	0.39
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	4	0.39
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	18	0.39
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	18	0.39
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	3	0.39
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	11	0.39
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	2	0.39
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	15	0.39
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	16	0.39
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	5	0.39
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	12	0.39
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	19	0.39
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	1	0.39
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	18	0.39
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	16	0.39
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	18	0.39
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	3	0.39
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	8	0.39
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	14	0.39
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	13	0.39
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	20	0.39
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	12	0.39
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	13	0.39
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	13	0.39
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	13	0.39
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	13	0.39
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	13	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	13	0.39
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	10	0.39
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	10	0.39
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	10	0.39
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	10	0.39
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	10	0.39
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	10	0.39
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	11	0.38
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	1	0.38
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	14	0.38
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	1	0.38
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	10	0.38
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	10	0.38
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	13	0.38
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	19	0.38
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	20	0.38
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	9	0.38
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	1	0.38
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	16	0.38
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	4	0.38
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	11	0.38
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	12	0.38
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	18	0.38
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	14	0.38
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	1	0.38
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	19	0.38
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	7	0.38
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	14	0.38
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	20	0.38
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	11	0.38
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	16	0.38
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	20	0.38
(2,157)	1:28:A:SER:O	1:32:A:SER:N	13	0.38
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	20	0.38
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	11	0.38
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	3	0.38
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	13	0.38
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	16	0.38
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	18	0.38
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	19	0.38
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	2	0.37
(2,212)	1:91:A:ARG:N	1:158:A:PRO:O	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,207)	1:57:A:CYS:N	1:88:A:ASN:O	5	0.37
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	10	0.37
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	2	0.37
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	16	0.37
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	20	0.37
(2,195)	1:62:A:ASP:O	1:65:A:ASP:N	6	0.37
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	11	0.37
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	10	0.37
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	5	0.37
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	7	0.37
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	14	0.37
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	8	0.37
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	19	0.37
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	17	0.37
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	9	0.37
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	9	0.37
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	18	0.37
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	11	0.37
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	16	0.37
(2,157)	1:28:A:SER:O	1:32:A:SER:N	4	0.37
(2,157)	1:28:A:SER:O	1:32:A:SER:N	8	0.37
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	16	0.37
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	18	0.37
(1,647)	1:19:A:VAL:HG11	1:146:A:PHE:HD1	7	0.37
(1,647)	1:19:A:VAL:HG12	1:146:A:PHE:HD1	7	0.37
(1,647)	1:19:A:VAL:HG13	1:146:A:PHE:HD1	7	0.37
(1,647)	1:19:A:VAL:HG21	1:146:A:PHE:HD1	7	0.37
(1,647)	1:19:A:VAL:HG22	1:146:A:PHE:HD1	7	0.37
(1,647)	1:19:A:VAL:HG23	1:146:A:PHE:HD1	7	0.37
(2,209)	1:59:A:LEU:N	1:90:A:LEU:O	3	0.36
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	16	0.36
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	19	0.36
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	2	0.36
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	17	0.36
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	2	0.36
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	15	0.36
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	10	0.36
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	1	0.36
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	2	0.36
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	6	0.36
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	13	0.36
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	13	0.36
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	8	0.36
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	16	0.36
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	3	0.36
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	20	0.36
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	19	0.36
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	19	0.36
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	19	0.36
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	3	0.35
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	3	0.35
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	15	0.35
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	19	0.35
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	3	0.35
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	13	0.35
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	4	0.35
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	3	0.35
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	4	0.35
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	2	0.35
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	7	0.35
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	20	0.35
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	3	0.35
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	4	0.35
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	5	0.35
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	20	0.35
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	9	0.35
(1,801)	1:146:A:PHE:HD1	1:158:A:PRO:HB2	6	0.35
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB1	8	0.35
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB2	8	0.35
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB3	8	0.35
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	3	0.34
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	2	0.34
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	15	0.34
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	12	0.34
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	7	0.34
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	7	0.34
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	19	0.34
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	9	0.34
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	14	0.34
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	12	0.34
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	14	0.34
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	16	0.34
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	19	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,163)	1:43:A:ALA:O	1:47:A:LEU:N	18	0.34
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	13	0.34
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	6	0.34
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	15	0.34
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	18	0.34
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	11	0.34
(2,145)	1:16:A:MET:O	1:19:A:VAL:N	19	0.34
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	7	0.34
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	14	0.34
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	15	0.34
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	5	0.34
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	4	0.34
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	7	0.34
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	11	0.33
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	13	0.33
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	20	0.33
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	17	0.33
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	18	0.33
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	14	0.33
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	19	0.33
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	11	0.33
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	1	0.33
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	1	0.33
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	16	0.33
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	1	0.33
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	8	0.33
(2,185)	1:139:A:ALA:O	1:143:A:LEU:N	9	0.33
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	5	0.33
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	15	0.33
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	18	0.33
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	19	0.33
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	10	0.33
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	16	0.33
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	15	0.33
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	15	0.33
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	11	0.33
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	15	0.33
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	6	0.33
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	19	0.33
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	2	0.33
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	13	0.33
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	6	0.33
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	6	0.33
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	10	0.33
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	10	0.33
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	10	0.33
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	10	0.33
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	10	0.33
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	10	0.33
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB1	10	0.33
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB2	10	0.33
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB3	10	0.33
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	1	0.33
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	2	0.32
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	12	0.32
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	12	0.32
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	11	0.32
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	2	0.32
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	4	0.32
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	6	0.32
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	11	0.32
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	17	0.32
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	1	0.32
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	4	0.32
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	19	0.32
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	1	0.32
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	18	0.32
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	11	0.32
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	20	0.32
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	19	0.32
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	18	0.32
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	1	0.32
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	3	0.32
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	2	0.32
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	7	0.32
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	2	0.32
(2,149)	1:20:A:GLY:O	1:24:A:GLU:N	20	0.32
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	8	0.32
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	11	0.32
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	1	0.32
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	16	0.32
(1,430)	1:108:A:ALA:HA	1:109:A:GLY:H	8	0.32
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	11	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	11	0.32
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	3	0.32
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	8	0.31
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	20	0.31
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	13	0.31
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	18	0.31
(2,197)	1:64:A:ASP:O	1:67:A:ARG:N	6	0.31
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	6	0.31
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	18	0.31
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	4	0.31
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	6	0.31
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	13	0.31
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	9	0.31
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	18	0.31
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	7	0.31
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	9	0.31
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	13	0.31
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	11	0.31
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	11	0.31
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	12	0.31
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	19	0.31
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	9	0.31
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	16	0.31
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	16	0.31
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	5	0.31
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	1	0.31
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	9	0.31
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	19	0.31
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	9	0.31
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	14	0.31
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	8	0.31
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	12	0.31
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	13	0.31
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	3	0.3
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	3	0.3
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	7	0.3
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	13	0.3
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	12	0.3
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	12	0.3
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	20	0.3
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	8	0.3
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	12	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	10	0.3
(2,179)	1:94:A:ASN:O	1:97:A:ARG:N	11	0.3
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	6	0.3
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	13	0.3
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	14	0.3
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	19	0.3
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	17	0.3
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	6	0.3
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	2	0.3
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	13	0.3
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	6	0.3
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	7	0.3
(2,157)	1:28:A:SER:O	1:32:A:SER:N	6	0.3
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	1	0.3
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	3	0.3
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	20	0.3
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	17	0.3
(1,806)	1:146:A:PHE:HE1	1:160:A:ILE:HB	6	0.3
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	6	0.3
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	10	0.3
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	20	0.3
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	9	0.29
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	16	0.29
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	11	0.29
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	13	0.29
(2,198)	1:65:A:ASP:O	1:68:A:ASP:N	4	0.29
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	2	0.29
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	3	0.29
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	7	0.29
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	15	0.29
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	17	0.29
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	15	0.29
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	7	0.29
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	16	0.29
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	18	0.29
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	6	0.29
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	8	0.29
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	5	0.29
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	2	0.29
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	20	0.29
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	3	0.29
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	18	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	19	0.29
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	5	0.29
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	16	0.29
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	11	0.29
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	3	0.29
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	10	0.29
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	3	0.29
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	5	0.29
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	10	0.29
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	20	0.29
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	3	0.29
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	3	0.29
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	20	0.28
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	2	0.28
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	15	0.28
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	9	0.28
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	6	0.28
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	4	0.28
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	6	0.28
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	5	0.28
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	17	0.28
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	8	0.28
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	1	0.28
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	9	0.28
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	9	0.28
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	1	0.28
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	3	0.28
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	4	0.28
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	13	0.28
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	1	0.28
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	4	0.28
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	10	0.28
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	7	0.28
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	1	0.28
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	7	0.28
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	19	0.28
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	10	0.28
(2,157)	1:28:A:SER:O	1:32:A:SER:N	3	0.28
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	8	0.28
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	9	0.28
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	10	0.28
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	18	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	4	0.28
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	10	0.28
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	6	0.28
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	6	0.28
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	5	0.27
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	14	0.27
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	1	0.27
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	12	0.27
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	4	0.27
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	5	0.27
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	20	0.27
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	17	0.27
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	6	0.27
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	11	0.27
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	15	0.27
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	20	0.27
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	13	0.27
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	16	0.27
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	20	0.27
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	3	0.27
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	9	0.27
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	15	0.27
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	12	0.27
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	8	0.27
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	5	0.27
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	9	0.27
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	10	0.27
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	6	0.27
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	17	0.27
(2,157)	1:28:A:SER:O	1:32:A:SER:N	11	0.27
(2,146)	1:17:A:ASP:O	1:21:A:ASP:N	3	0.27
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	17	0.27
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	17	0.27
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	17	0.27
(1,561)	1:153:A:MET:H	1:153:A:MET:HB2	17	0.27
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB1	3	0.27
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB2	3	0.27
(1,420)	1:105:A:GLU:HA	1:108:A:ALA:HB3	3	0.27
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	7	0.27
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	17	0.27
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	5	0.26
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	8	0.26
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	17	0.26
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	7	0.26
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	8	0.26
(2,191)	1:145:A:CYS:O	1:149:A:GLU:N	12	0.26
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	8	0.26
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	15	0.26
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	2	0.26
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	4	0.26
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	11	0.26
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	20	0.26
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	10	0.26
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	6	0.26
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	7	0.26
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	16	0.26
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	5	0.26
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	16	0.26
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	2	0.26
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	18	0.26
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	4	0.26
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	5	0.26
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	14	0.26
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	4	0.26
(2,157)	1:28:A:SER:O	1:32:A:SER:N	5	0.26
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	19	0.26
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	13	0.26
(1,691)	1:40:A:VAL:HG11	1:75:A:PHE:HB3	8	0.26
(1,691)	1:40:A:VAL:HG12	1:75:A:PHE:HB3	8	0.26
(1,691)	1:40:A:VAL:HG13	1:75:A:PHE:HB3	8	0.26
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	11	0.26
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	11	0.26
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	11	0.26
(1,421)	1:106:A:THR:H	1:106:A:THR:HG21	17	0.26
(1,421)	1:106:A:THR:H	1:106:A:THR:HG22	17	0.26
(1,421)	1:106:A:THR:H	1:106:A:THR:HG23	17	0.26
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	20	0.26
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	15	0.26
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	19	0.26
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	4	0.26
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	4	0.26
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	5	0.26
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	10	0.26
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	10	0.26
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	20	0.26
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	20	0.26
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	10	0.25
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	20	0.25
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	10	0.25
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	7	0.25
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	9	0.25
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	20	0.25
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	12	0.25
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	11	0.25
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	17	0.25
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	20	0.25
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	4	0.25
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	7	0.25
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	9	0.25
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	20	0.25
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	17	0.25
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	5	0.25
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	19	0.25
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	11	0.25
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	3	0.25
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	15	0.25
(2,158)	1:29:A:LYS:O	1:33:A:GLN:N	18	0.25
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	13	0.25
(2,144)	1:15:A:ARG:O	1:18:A:LYS:N	5	0.25
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	10	0.25
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	4	0.25
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	4	0.25
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	4	0.25
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	16	0.25
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	14	0.25
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	14	0.25
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	1	0.24
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	2	0.24
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	18	0.24
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	5	0.24
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	6	0.24
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	17	0.24
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	8	0.24
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	5	0.24
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	12	0.24
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	19	0.24
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	18	0.24
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	14	0.24
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	5	0.24
(2,184)	1:138:A:PRO:O	1:142:A:GLN:N	12	0.24
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	6	0.24
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	16	0.24
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	7	0.24
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	13	0.24
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	8	0.24
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	11	0.24
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	13	0.24
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	11	0.24
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	6	0.24
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	8	0.24
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	7	0.24
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	4	0.24
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	17	0.24
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	11	0.24
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	11	0.24
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	11	0.24
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	14	0.24
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	14	0.24
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	14	0.24
(1,475)	1:128:A:THR:H	1:128:A:THR:HG21	3	0.24
(1,475)	1:128:A:THR:H	1:128:A:THR:HG22	3	0.24
(1,475)	1:128:A:THR:H	1:128:A:THR:HG23	3	0.24
(1,431)	1:108:A:ALA:HA	1:111:A:ALA:H	2	0.24
(1,414)	1:104:A:LEU:HB2	1:106:A:THR:H	3	0.24
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	12	0.24
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	2	0.24
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	12	0.24
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	7	0.24
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	7	0.24
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	17	0.24
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	17	0.24
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	6	0.23
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	8	0.23
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	19	0.23
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	5	0.23
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	7	0.23
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	11	0.23
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	3	0.23
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	6	0.23
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	12	0.23
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	3	0.23
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	7	0.23
(2,187)	1:141:A:SER:O	1:145:A:CYS:N	17	0.23
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	19	0.23
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	10	0.23
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	13	0.23
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	17	0.23
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	6	0.23
(2,172)	1:75:A:PHE:O	1:79:A:GLN:N	18	0.23
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	6	0.23
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	4	0.23
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	13	0.23
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	4	0.23
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	17	0.23
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	13	0.23
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	20	0.23
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	1	0.23
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	9	0.23
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	9	0.23
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	9	0.23
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	12	0.23
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	12	0.23
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	12	0.23
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	12	0.23
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	12	0.23
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	12	0.23
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	12	0.23
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	12	0.23
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	12	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG21	10	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG22	10	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG23	10	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG21	17	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG22	17	0.23
(1,475)	1:128:A:THR:H	1:128:A:THR:HG23	17	0.23
(1,421)	1:106:A:THR:H	1:106:A:THR:HG21	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:106:A:THR:H	1:106:A:THR:HG22	4	0.23
(1,421)	1:106:A:THR:H	1:106:A:THR:HG23	4	0.23
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	17	0.23
(1,338)	1:87:A:ILE:HA	1:87:A:ILE:HD11	19	0.23
(1,338)	1:87:A:ILE:HA	1:87:A:ILE:HD12	19	0.23
(1,338)	1:87:A:ILE:HA	1:87:A:ILE:HD13	19	0.23
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	8	0.23
(1,137)	1:33:A:GLN:H	1:33:A:GLN:HB2	3	0.23
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	6	0.22
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	16	0.22
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	7	0.22
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	9	0.22
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	11	0.22
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	14	0.22
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	10	0.22
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	16	0.22
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	20	0.22
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	6	0.22
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	4	0.22
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	9	0.22
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	1	0.22
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	3	0.22
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	8	0.22
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	14	0.22
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	4	0.22
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	9	0.22
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	20	0.22
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	11	0.22
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	9	0.22
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	5	0.22
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	15	0.22
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	17	0.22
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	1	0.22
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	18	0.22
(2,157)	1:28:A:SER:O	1:32:A:SER:N	2	0.22
(2,157)	1:28:A:SER:O	1:32:A:SER:N	15	0.22
(2,157)	1:28:A:SER:O	1:32:A:SER:N	20	0.22
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	12	0.22
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	4	0.22
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	2	0.22
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	2	0.22
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	6	0.22
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	6	0.22
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	6	0.22
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	4	0.22
(1,430)	1:108:A:ALA:HA	1:109:A:GLY:H	1	0.22
(1,342)	1:87:A:ILE:H	1:88:A:ASN:H	13	0.22
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	1	0.22
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	14	0.22
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	7	0.21
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	8	0.21
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	17	0.21
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	7	0.21
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	6	0.21
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	19	0.21
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	14	0.21
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	3	0.21
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	6	0.21
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	19	0.21
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	2	0.21
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	3	0.21
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	13	0.21
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	2	0.21
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	11	0.21
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	14	0.21
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	14	0.21
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	9	0.21
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	13	0.21
(2,192)	1:146:A:PHE:O	1:150:A:SER:N	13	0.21
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	1	0.21
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	19	0.21
(2,188)	1:142:A:GLN:O	1:146:A:PHE:N	9	0.21
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	3	0.21
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	14	0.21
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	10	0.21
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	17	0.21
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	4	0.21
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	11	0.21
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	14	0.21
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	14	0.21
(2,165)	1:68:A:ASP:O	1:72:A:GLN:N	12	0.21
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	10	0.21
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,148)	1:19:A:VAL:O	1:23:A:LEU:N	2	0.21
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	10	0.21
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	10	0.21
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	10	0.21
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	9	0.21
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	13	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	1	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	1	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	1	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	10	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	10	0.21
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	10	0.21
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	5	0.21
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	5	0.21
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	5	0.21
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	5	0.21
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	5	0.21
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	5	0.21
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	16	0.21
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	16	0.21
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	16	0.21
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	16	0.21
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	16	0.21
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	16	0.21
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	5	0.21
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	7	0.21
(1,300)	1:78:A:ILE:H	1:78:A:ILE:HB	8	0.21
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	9	0.21
(1,173)	1:45:A:LYS:H	1:45:A:LYS:HG2	12	0.21
(1,173)	1:45:A:LYS:H	1:45:A:LYS:HG3	12	0.21
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	11	0.21
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	19	0.2
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	16	0.2
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	17	0.2
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	18	0.2
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	17	0.2
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	1	0.2
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	20	0.2
(2,173)	1:76:A:THR:O	1:80:A:ALA:N	12	0.2
(2,171)	1:74:A:HIS:O	1:78:A:ILE:N	10	0.2
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	4	0.2
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	13	0.2
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	17	0.2
(2,166)	1:69:A:VAL:O	1:73:A:ILE:N	10	0.2
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	7	0.2
(2,162)	1:44:A:ALA:O	1:48:A:ASN:N	9	0.2
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	12	0.2
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	17	0.2
(2,159)	1:30:A:ALA:O	1:34:A:ARG:N	20	0.2
(2,157)	1:28:A:SER:O	1:32:A:SER:N	16	0.2
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	9	0.2
(1,803)	1:146:A:PHE:HE1	1:158:A:PRO:HB2	4	0.2
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	20	0.2
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	20	0.2
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	20	0.2
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	5	0.2
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	11	0.2
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	18	0.2
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD11	12	0.2
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD12	12	0.2
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD13	12	0.2
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	4	0.2
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	15	0.2
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	15	0.2
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	15	0.2
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	12	0.2
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	10	0.2
(1,475)	1:128:A:THR:H	1:128:A:THR:HG21	15	0.2
(1,475)	1:128:A:THR:H	1:128:A:THR:HG22	15	0.2
(1,475)	1:128:A:THR:H	1:128:A:THR:HG23	15	0.2
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	2	0.2
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	9	0.2
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	9	0.2
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	5	0.19
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	10	0.19
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	11	0.19
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	7	0.19
(2,211)	1:61:A:ALA:N	1:92:A:VAL:O	16	0.19
(2,208)	1:57:A:CYS:O	1:90:A:LEU:N	15	0.19
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	17	0.19
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	17	0.19
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	4	0.19
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	9	0.19
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	14	0.19
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	15	0.19
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	18	0.19
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	16	0.19
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	15	0.19
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	19	0.19
(2,182)	1:97:A:ARG:O	1:101:A:LEU:N	2	0.19
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	5	0.19
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	4	0.19
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	16	0.19
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	20	0.19
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	3	0.19
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	17	0.19
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	14	0.19
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	13	0.19
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	15	0.19
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	2	0.19
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	9	0.19
(2,160)	1:31:A:LEU:O	1:34:A:ARG:N	1	0.19
(2,153)	1:24:A:GLU:O	1:28:A:SER:N	8	0.19
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	1	0.19
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	4	0.19
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	12	0.19
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	1	0.19
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	2	0.19
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	14	0.19
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	16	0.19
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	19	0.19
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	5	0.19
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	5	0.19
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	5	0.19
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	7	0.19
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	7	0.19
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	7	0.19
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	1	0.19
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	3	0.19
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	13	0.19
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	11	0.19
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	11	0.19
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	11	0.19
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,489)	1:139:A:ALA:H	1:143:A:LEU:HD11	2	0.19
(1,489)	1:139:A:ALA:H	1:143:A:LEU:HD12	2	0.19
(1,489)	1:139:A:ALA:H	1:143:A:LEU:HD13	2	0.19
(1,412)	1:104:A:LEU:H	1:105:A:GLU:H	8	0.19
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	14	0.19
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	8	0.19
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	5	0.19
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	5	0.19
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	5	0.19
(1,173)	1:45:A:LYS:H	1:45:A:LYS:HG2	5	0.19
(1,173)	1:45:A:LYS:H	1:45:A:LYS:HG3	5	0.19
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	20	0.18
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	1	0.18
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	2	0.18
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	3	0.18
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	12	0.18
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	4	0.18
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	20	0.18
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	15	0.18
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	7	0.18
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	16	0.18
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	19	0.18
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	3	0.18
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	9	0.18
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	1	0.18
(2,199)	1:37:A:THR:N	1:126:A:LEU:O	20	0.18
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	16	0.18
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	2	0.18
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	5	0.18
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	14	0.18
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	17	0.18
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	2	0.18
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	6	0.18
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	17	0.18
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	19	0.18
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	6	0.18
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	5	0.18
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	7	0.18
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	17	0.18
(2,157)	1:28:A:SER:O	1:32:A:SER:N	19	0.18
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	20	0.18
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	10	0.18
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	11	0.18
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	20	0.18
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	2	0.18
(1,755)	1:90:A:LEU:HB2	1:159:A:VAL:HA	5	0.18
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	17	0.18
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	4	0.18
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	9	0.18
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	12	0.18
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	1	0.18
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	17	0.18
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	16	0.18
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	16	0.18
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	16	0.18
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	19	0.18
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	19	0.18
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	19	0.18
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	2	0.18
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	14	0.18
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	15	0.18
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	15	0.18
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	15	0.18
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	5	0.18
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	5	0.18
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	5	0.18
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	10	0.18
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	10	0.18
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	10	0.18
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	15	0.18
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	15	0.18
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	15	0.18
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	19	0.18
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	19	0.18
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	19	0.18
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	13	0.18
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	15	0.18
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	18	0.18
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	1	0.18
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	13	0.18
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	18	0.18
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	18	0.18
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	12	0.17
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	13	0.17
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	4	0.17
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	19	0.17
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	15	0.17
(2,189)	1:143:A:LEU:O	1:147:A:CYS:N	13	0.17
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	7	0.17
(2,169)	1:72:A:GLN:O	1:76:A:THR:N	12	0.17
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	19	0.17
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	3	0.17
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	6	0.17
(2,161)	1:45:A:LYS:O	1:49:A:VAL:N	10	0.17
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	11	0.17
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	13	0.17
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	19	0.17
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	15	0.17
(2,152)	1:23:A:LEU:O	1:27:A:LEU:N	12	0.17
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	8	0.17
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	19	0.17
(2,115)	1:59:A:LEU:N	1:90:A:LEU:O	6	0.17
(2,22)	1:25:A:GLU:O	1:29:A:LYS:N	8	0.17
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	12	0.17
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	3	0.17
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	15	0.17
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	15	0.17
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	15	0.17
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	4	0.17
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	19	0.17
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	6	0.17
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	17	0.17
(1,720)	1:61:A:ALA:HB1	1:75:A:PHE:HD1	18	0.17
(1,720)	1:61:A:ALA:HB2	1:75:A:PHE:HD1	18	0.17
(1,720)	1:61:A:ALA:HB3	1:75:A:PHE:HD1	18	0.17
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	5	0.17
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	14	0.17
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	8	0.17
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	8	0.17
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	8	0.17
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	20	0.17
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	20	0.17
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	20	0.17
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	1	0.17
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	7	0.17
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	7	0.17
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	7	0.17
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	12	0.17
(1,475)	1:128:A:THR:H	1:128:A:THR:HG21	9	0.17
(1,475)	1:128:A:THR:H	1:128:A:THR:HG22	9	0.17
(1,475)	1:128:A:THR:H	1:128:A:THR:HG23	9	0.17
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	2	0.17
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	2	0.17
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	12	0.17
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	12	0.17
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	15	0.17
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	15	0.17
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	18	0.17
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	17	0.16
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	19	0.16
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	10	0.16
(2,206)	1:60:A:ALA:N	1:123:A:HIS:O	13	0.16
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	1	0.16
(2,202)	1:56:A:LEU:N	1:127:A:VAL:O	10	0.16
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	10	0.16
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	8	0.16
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	16	0.16
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	12	0.16
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	7	0.16
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	11	0.16
(2,190)	1:144:A:ILE:O	1:148:A:ARG:N	12	0.16
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	12	0.16
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	5	0.16
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	8	0.16
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	4	0.16
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	9	0.16
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	16	0.16
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	12	0.16
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	14	0.16
(2,157)	1:28:A:SER:O	1:32:A:SER:N	9	0.16
(2,157)	1:28:A:SER:O	1:32:A:SER:N	18	0.16
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	5	0.16
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	19	0.16
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	8	0.16
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	10	0.16
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	6	0.16
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	16	0.16
(2,62)	1:77:A:LEU:O	1:81:A:PHE:N	15	0.16
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	11	0.16
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	3	0.16
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	8	0.16
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	15	0.16
(1,708)	1:56:A:LEU:HG	1:89:A:ILE:HA	2	0.16
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	9	0.16
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	17	0.16
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	20	0.16
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	3	0.16
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	3	0.16
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	3	0.16
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	3	0.16
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	3	0.16
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	3	0.16
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD11	10	0.16
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD12	10	0.16
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD13	10	0.16
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD11	10	0.16
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD12	10	0.16
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD13	10	0.16
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD11	10	0.16
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD12	10	0.16
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD13	10	0.16
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD11	20	0.16
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD12	20	0.16
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD13	20	0.16
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD11	20	0.16
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD12	20	0.16
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD13	20	0.16
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD11	20	0.16
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD12	20	0.16
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD13	20	0.16
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD11	3	0.16
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD12	3	0.16
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD13	3	0.16
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	17	0.16
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	18	0.16
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	18	0.16
(1,634)	1:58:A:LEU:H	1:125:A:VAL:HB	9	0.16
(1,631)	1:56:A:LEU:HB2	1:127:A:VAL:H	13	0.16
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	8	0.16
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	12	0.16
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	4	0.16
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	4	0.16
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	4	0.16
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	13	0.16
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	13	0.16
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	13	0.16
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	3	0.16
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	6	0.16
(1,426)	1:107:A:ASP:HA	1:108:A:ALA:H	20	0.16
(1,421)	1:106:A:THR:H	1:106:A:THR:HG21	10	0.16
(1,421)	1:106:A:THR:H	1:106:A:THR:HG22	10	0.16
(1,421)	1:106:A:THR:H	1:106:A:THR:HG23	10	0.16
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	6	0.16
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	6	0.16
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	9	0.16
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	9	0.16
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	9	0.16
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	13	0.16
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	14	0.16
(1,138)	1:33:A:GLN:H	1:33:A:GLN:HG2	11	0.16
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	2	0.16
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	3	0.16
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	12	0.16
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	1	0.16
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	1	0.16
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	8	0.16
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	8	0.16
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	19	0.16
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	19	0.16
(1,11)	1:5:A:GLU:HA	1:7:A:SER:H	18	0.16
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	11	0.15
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	10	0.15
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	10	0.15
(2,194)	1:148:A:ARG:O	1:152:A:TYR:N	2	0.15
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	8	0.15
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	19	0.15
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,183)	1:137:A:ASP:O	1:141:A:SER:N	20	0.15
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	1	0.15
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	14	0.15
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	12	0.15
(2,176)	1:79:A:GLN:O	1:83:A:CYS:N	19	0.15
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	4	0.15
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	11	0.15
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	13	0.15
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	13	0.15
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	16	0.15
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	1	0.15
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	4	0.15
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	5	0.15
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	14	0.15
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	15	0.15
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	12	0.15
(2,133)	1:91:A:ARG:N	1:158:A:PRO:O	7	0.15
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	18	0.15
(2,62)	1:77:A:LEU:O	1:81:A:PHE:N	8	0.15
(1,792)	1:129:A:ASN:HB2	1:135:A:TRP:HE1	9	0.15
(1,774)	1:98:A:LEU:HD21	1:100:A:GLU:H	8	0.15
(1,774)	1:98:A:LEU:HD22	1:100:A:GLU:H	8	0.15
(1,774)	1:98:A:LEU:HD23	1:100:A:GLU:H	8	0.15
(1,751)	1:85:A:ASN:H	1:87:A:ILE:H	15	0.15
(1,751)	1:85:A:ASN:H	1:87:A:ILE:H	18	0.15
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	7	0.15
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	20	0.15
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	8	0.15
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	10	0.15
(1,686)	1:39:A:GLY:H	1:125:A:VAL:HB	18	0.15
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	17	0.15
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	10	0.15
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	10	0.15
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	10	0.15
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	17	0.15
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	17	0.15
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	17	0.15
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	4	0.15
(1,594)	1:163:A:PRO:HA	1:164:A:GLU:H	5	0.15
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	1	0.15
(1,536)	1:147:A:CYS:H	1:147:A:CYS:HB3	2	0.15
(1,450)	1:116:A:ALA:HB1	1:117:A:GLU:H	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,450)	1:116:A:ALA:HB2	1:117:A:GLU:H	2	0.15
(1,450)	1:116:A:ALA:HB3	1:117:A:GLU:H	2	0.15
(1,431)	1:108:A:ALA:HA	1:111:A:ALA:H	20	0.15
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	9	0.15
(1,320)	1:81:A:PHE:HB3	1:81:A:PHE:HD1	12	0.15
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	14	0.15
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	12	0.15
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	15	0.15
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	3	0.15
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	16	0.15
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	18	0.15
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	1	0.15
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	11	0.15
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	18	0.15
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	2	0.15
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	15	0.15
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	9	0.15
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	9	0.15
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	13	0.15
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	13	0.15
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	1	0.15
(1,8)	1:4:A:GLU:HA	1:6:A:PHE:H	6	0.15
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	15	0.14
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	9	0.14
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	11	0.14
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	13	0.14
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	15	0.14
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	17	0.14
(2,205)	1:58:A:LEU:O	1:125:A:VAL:N	20	0.14
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	7	0.14
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	12	0.14
(2,203)	1:56:A:LEU:O	1:127:A:VAL:N	14	0.14
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	1	0.14
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	15	0.14
(2,200)	1:37:A:THR:O	1:126:A:LEU:N	20	0.14
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	14	0.14
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	2	0.14
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	15	0.14
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	12	0.14
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	20	0.14
(2,167)	1:70:A:ALA:O	1:74:A:HIS:N	10	0.14
(2,156)	1:27:A:LEU:O	1:31:A:LEU:N	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	13	0.14
(2,115)	1:59:A:LEU:N	1:90:A:LEU:O	19	0.14
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	14	0.14
(2,111)	1:57:A:CYS:N	1:88:A:ASN:O	19	0.14
(2,22)	1:25:A:GLU:O	1:29:A:LYS:N	5	0.14
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	11	0.14
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD11	12	0.14
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD12	12	0.14
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD13	12	0.14
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	19	0.14
(1,783)	1:127:A:VAL:HG21	1:135:A:TRP:HD1	12	0.14
(1,783)	1:127:A:VAL:HG22	1:135:A:TRP:HD1	12	0.14
(1,783)	1:127:A:VAL:HG23	1:135:A:TRP:HD1	12	0.14
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	4	0.14
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	3	0.14
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	3	0.14
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	3	0.14
(1,774)	1:98:A:LEU:HD21	1:100:A:GLU:H	11	0.14
(1,774)	1:98:A:LEU:HD22	1:100:A:GLU:H	11	0.14
(1,774)	1:98:A:LEU:HD23	1:100:A:GLU:H	11	0.14
(1,750)	1:84:A:GLU:HG2	1:86:A:ASP:H	16	0.14
(1,743)	1:77:A:LEU:HG	1:79:A:GLN:H	3	0.14
(1,738)	1:73:A:ILE:HB	1:76:A:THR:H	1	0.14
(1,708)	1:56:A:LEU:HG	1:89:A:ILE:HA	16	0.14
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	12	0.14
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	13	0.14
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	19	0.14
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	13	0.14
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	13	0.14
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	13	0.14
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	13	0.14
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	13	0.14
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	13	0.14
(1,704)	1:54:A:VAL:HG11	1:86:A:ASP:H	17	0.14
(1,704)	1:54:A:VAL:HG12	1:86:A:ASP:H	17	0.14
(1,704)	1:54:A:VAL:HG13	1:86:A:ASP:H	17	0.14
(1,704)	1:54:A:VAL:HG21	1:86:A:ASP:H	17	0.14
(1,704)	1:54:A:VAL:HG22	1:86:A:ASP:H	17	0.14
(1,704)	1:54:A:VAL:HG23	1:86:A:ASP:H	17	0.14
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	7	0.14
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	7	0.14
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD11	19	0.14
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD12	19	0.14
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD13	19	0.14
(1,694)	1:40:A:VAL:H	1:121:A:ASP:HB2	3	0.14
(1,683)	1:37:A:THR:HA	1:42:A:GLU:HB3	6	0.14
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD11	17	0.14
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD12	17	0.14
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD13	17	0.14
(1,665)	1:26:A:VAL:HG21	1:143:A:LEU:H	3	0.14
(1,665)	1:26:A:VAL:HG22	1:143:A:LEU:H	3	0.14
(1,665)	1:26:A:VAL:HG23	1:143:A:LEU:H	3	0.14
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	10	0.14
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD21	13	0.14
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD22	13	0.14
(1,661)	1:25:A:GLU:H	1:140:A:LEU:HD23	13	0.14
(1,636)	1:58:A:LEU:HB2	1:126:A:LEU:H	7	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	3	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	3	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	3	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	17	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	17	0.14
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	17	0.14
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	6	0.14
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	11	0.14
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	20	0.14
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	3	0.14
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	3	0.14
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	3	0.14
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	8	0.14
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	8	0.14
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	8	0.14
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	1	0.14
(1,450)	1:116:A:ALA:HB1	1:117:A:GLU:H	5	0.14
(1,450)	1:116:A:ALA:HB2	1:117:A:GLU:H	5	0.14
(1,450)	1:116:A:ALA:HB3	1:117:A:GLU:H	5	0.14
(1,422)	1:106:A:THR:H	1:106:A:THR:HB	2	0.14
(1,422)	1:106:A:THR:H	1:106:A:THR:HB	7	0.14
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	2	0.14
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	5	0.14
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	9	0.14
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	3	0.14
(1,210)	1:56:A:LEU:HD21	1:57:A:CYS:HA	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,210)	1:56:A:LEU:HD22	1:57:A:CYS:HA	18	0.14
(1,210)	1:56:A:LEU:HD23	1:57:A:CYS:HA	18	0.14
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	4	0.14
(1,152)	1:35:A:THR:HA	1:36:A:ILE:H	13	0.14
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	7	0.14
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	6	0.14
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	15	0.14
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	1	0.14
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	8	0.14
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	19	0.14
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	16	0.14
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	16	0.14
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	8	0.14
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	19	0.14
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	9	0.13
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	12	0.13
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	13	0.13
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	14	0.13
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	18	0.13
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	4	0.13
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	1	0.13
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	6	0.13
(2,193)	1:147:A:CYS:O	1:151:A:ARG:N	5	0.13
(2,186)	1:140:A:LEU:O	1:144:A:ILE:N	8	0.13
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	6	0.13
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	3	0.13
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	7	0.13
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	11	0.13
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	2	0.13
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	2	0.13
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	5	0.13
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	2	0.13
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	9	0.13
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	12	0.13
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	16	0.13
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	4	0.13
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	20	0.13
(2,95)	1:145:A:CYS:O	1:149:A:GLU:N	5	0.13
(2,62)	1:77:A:LEU:O	1:81:A:PHE:N	18	0.13
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	10	0.13
(2,31)	1:30:A:ALA:O	1:34:A:ARG:H	5	0.13
(2,20)	1:24:A:GLU:O	1:28:A:SER:N	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:20:A:GLY:O	1:24:A:GLU:N	14	0.13
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	6	0.13
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD11	18	0.13
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD12	18	0.13
(1,809)	1:146:A:PHE:HD1	1:160:A:ILE:HD13	18	0.13
(1,783)	1:127:A:VAL:HG21	1:135:A:TRP:HD1	14	0.13
(1,783)	1:127:A:VAL:HG22	1:135:A:TRP:HD1	14	0.13
(1,783)	1:127:A:VAL:HG23	1:135:A:TRP:HD1	14	0.13
(1,778)	1:104:A:LEU:HG	1:165:A:ARG:HE	18	0.13
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	1	0.13
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	1	0.13
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	1	0.13
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	13	0.13
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	13	0.13
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	13	0.13
(1,774)	1:98:A:LEU:HD21	1:100:A:GLU:H	15	0.13
(1,774)	1:98:A:LEU:HD22	1:100:A:GLU:H	15	0.13
(1,774)	1:98:A:LEU:HD23	1:100:A:GLU:H	15	0.13
(1,752)	1:85:A:ASN:HB2	1:87:A:ILE:H	9	0.13
(1,751)	1:85:A:ASN:H	1:87:A:ILE:H	2	0.13
(1,749)	1:82:A:CYS:HB2	1:84:A:GLU:H	18	0.13
(1,738)	1:73:A:ILE:HB	1:76:A:THR:H	10	0.13
(1,734)	1:71:A:LEU:HD21	1:75:A:PHE:HB3	6	0.13
(1,734)	1:71:A:LEU:HD22	1:75:A:PHE:HB3	6	0.13
(1,734)	1:71:A:LEU:HD23	1:75:A:PHE:HB3	6	0.13
(1,734)	1:71:A:LEU:HD21	1:75:A:PHE:HB3	9	0.13
(1,734)	1:71:A:LEU:HD22	1:75:A:PHE:HB3	9	0.13
(1,734)	1:71:A:LEU:HD23	1:75:A:PHE:HB3	9	0.13
(1,734)	1:71:A:LEU:HD21	1:75:A:PHE:HB3	12	0.13
(1,734)	1:71:A:LEU:HD22	1:75:A:PHE:HB3	12	0.13
(1,734)	1:71:A:LEU:HD23	1:75:A:PHE:HB3	12	0.13
(1,720)	1:61:A:ALA:HB1	1:75:A:PHE:HD1	1	0.13
(1,720)	1:61:A:ALA:HB2	1:75:A:PHE:HD1	1	0.13
(1,720)	1:61:A:ALA:HB3	1:75:A:PHE:HD1	1	0.13
(1,720)	1:61:A:ALA:HB1	1:75:A:PHE:HD1	20	0.13
(1,720)	1:61:A:ALA:HB2	1:75:A:PHE:HD1	20	0.13
(1,720)	1:61:A:ALA:HB3	1:75:A:PHE:HD1	20	0.13
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	12	0.13
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	12	0.13
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	12	0.13
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD11	11	0.13
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD12	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD13	11	0.13
(1,701)	1:47:A:LEU:HD11	1:81:A:PHE:HE1	11	0.13
(1,701)	1:47:A:LEU:HD12	1:81:A:PHE:HE1	11	0.13
(1,701)	1:47:A:LEU:HD13	1:81:A:PHE:HE1	11	0.13
(1,701)	1:47:A:LEU:HD21	1:81:A:PHE:HE1	11	0.13
(1,701)	1:47:A:LEU:HD22	1:81:A:PHE:HE1	11	0.13
(1,701)	1:47:A:LEU:HD23	1:81:A:PHE:HE1	11	0.13
(1,686)	1:39:A:GLY:H	1:125:A:VAL:HB	3	0.13
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD11	10	0.13
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD12	10	0.13
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD13	10	0.13
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	5	0.13
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	10	0.13
(1,665)	1:26:A:VAL:HG21	1:143:A:LEU:H	18	0.13
(1,665)	1:26:A:VAL:HG22	1:143:A:LEU:H	18	0.13
(1,665)	1:26:A:VAL:HG23	1:143:A:LEU:H	18	0.13
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	15	0.13
(1,634)	1:58:A:LEU:H	1:125:A:VAL:HB	4	0.13
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	9	0.13
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	15	0.13
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	16	0.13
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	20	0.13
(1,611)	1:37:A:THR:HB	1:126:A:LEU:H	11	0.13
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	2	0.13
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	2	0.13
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	2	0.13
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	16	0.13
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	16	0.13
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	16	0.13
(1,595)	1:163:A:PRO:HB2	1:164:A:GLU:H	20	0.13
(1,431)	1:108:A:ALA:HA	1:111:A:ALA:H	10	0.13
(1,422)	1:106:A:THR:H	1:106:A:THR:HB	16	0.13
(1,421)	1:106:A:THR:H	1:106:A:THR:HG21	12	0.13
(1,421)	1:106:A:THR:H	1:106:A:THR:HG22	12	0.13
(1,421)	1:106:A:THR:H	1:106:A:THR:HG23	12	0.13
(1,414)	1:104:A:LEU:HB2	1:106:A:THR:H	10	0.13
(1,401)	1:102:A:LEU:HA	1:103:A:LEU:H	13	0.13
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	5	0.13
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	8	0.13
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	11	0.13
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	16	0.13
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,398)	1:102:A:LEU:H	1:102:A:LEU:HB3	20	0.13
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	4	0.13
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	16	0.13
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	1	0.13
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	4	0.13
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	7	0.13
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	3	0.13
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	3	0.13
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	3	0.13
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	4	0.13
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	4	0.13
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	4	0.13
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	19	0.13
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	19	0.13
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	19	0.13
(1,244)	1:67:A:ARG:HA	1:68:A:ASP:H	14	0.13
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	1	0.13
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	6	0.13
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	8	0.13
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	19	0.13
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	1	0.13
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	2	0.13
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	16	0.13
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	17	0.13
(1,182)	1:46:A:LEU:HA	1:49:A:VAL:HB	12	0.13
(1,152)	1:35:A:THR:HA	1:36:A:ILE:H	14	0.13
(1,145)	1:34:A:ARG:H	1:34:A:ARG:HG2	14	0.13
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	7	0.13
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	12	0.13
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	20	0.13
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	13	0.13
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	16	0.13
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	9	0.13
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	14	0.13
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	2	0.12
(2,214)	1:93:A:SER:N	1:160:A:ILE:O	4	0.12
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	9	0.12
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	11	0.12
(2,201)	1:39:A:GLY:N	1:124:A:CYS:O	17	0.12
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	3	0.12
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	1	0.12
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,164)	1:42:A:GLU:O	1:46:A:LEU:N	1	0.12
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	7	0.12
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	7	0.12
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	17	0.12
(2,133)	1:91:A:ARG:N	1:158:A:PRO:O	6	0.12
(2,70)	1:94:A:ASN:O	1:97:A:ARG:H	18	0.12
(2,20)	1:24:A:GLU:O	1:28:A:SER:N	17	0.12
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	12	0.12
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	2	0.12
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	5	0.12
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	16	0.12
(1,792)	1:129:A:ASN:HB2	1:135:A:TRP:HE1	18	0.12
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	2	0.12
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	6	0.12
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	14	0.12
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	6	0.12
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	19	0.12
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	19	0.12
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	19	0.12
(1,755)	1:90:A:LEU:HB2	1:159:A:VAL:HA	13	0.12
(1,752)	1:85:A:ASN:HB2	1:87:A:ILE:H	8	0.12
(1,728)	1:64:A:ASP:HB3	1:67:A:ARG:H	16	0.12
(1,725)	1:62:A:ASP:H	1:95:A:PRO:HB2	6	0.12
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	11	0.12
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	11	0.12
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	11	0.12
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD11	9	0.12
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD12	9	0.12
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD13	9	0.12
(1,683)	1:37:A:THR:HA	1:42:A:GLU:HB3	12	0.12
(1,682)	1:33:A:GLN:H	1:35:A:THR:HG21	7	0.12
(1,682)	1:33:A:GLN:H	1:35:A:THR:HG22	7	0.12
(1,682)	1:33:A:GLN:H	1:35:A:THR:HG23	7	0.12
(1,679)	1:31:A:LEU:HG	1:33:A:GLN:H	5	0.12
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	12	0.12
(1,665)	1:26:A:VAL:HG21	1:143:A:LEU:H	19	0.12
(1,665)	1:26:A:VAL:HG22	1:143:A:LEU:H	19	0.12
(1,665)	1:26:A:VAL:HG23	1:143:A:LEU:H	19	0.12
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	16	0.12
(1,658)	1:23:A:LEU:HD11	1:58:A:LEU:H	14	0.12
(1,658)	1:23:A:LEU:HD12	1:58:A:LEU:H	14	0.12
(1,658)	1:23:A:LEU:HD13	1:58:A:LEU:H	14	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,642)	1:91:A:ARG:H	1:157:A:VAL:HA	13	0.12
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	9	0.12
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	9	0.12
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	9	0.12
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	8	0.12
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	9	0.12
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	14	0.12
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	16	0.12
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	17	0.12
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	18	0.12
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	14	0.12
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	14	0.12
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	14	0.12
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	6	0.12
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	7	0.12
(1,566)	1:154:A:ASP:H	1:154:A:ASP:HB2	15	0.12
(1,499)	1:141:A:SER:HB2	1:143:A:LEU:H	3	0.12
(1,450)	1:116:A:ALA:HB1	1:117:A:GLU:H	7	0.12
(1,450)	1:116:A:ALA:HB2	1:117:A:GLU:H	7	0.12
(1,450)	1:116:A:ALA:HB3	1:117:A:GLU:H	7	0.12
(1,429)	1:108:A:ALA:HB1	1:109:A:GLY:H	1	0.12
(1,429)	1:108:A:ALA:HB2	1:109:A:GLY:H	1	0.12
(1,429)	1:108:A:ALA:HB3	1:109:A:GLY:H	1	0.12
(1,413)	1:104:A:LEU:HB2	1:105:A:GLU:H	6	0.12
(1,401)	1:102:A:LEU:HA	1:103:A:LEU:H	6	0.12
(1,387)	1:99:A:ALA:H	1:102:A:LEU:H	17	0.12
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	12	0.12
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	19	0.12
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	12	0.12
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	17	0.12
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	18	0.12
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	20	0.12
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	5	0.12
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	10	0.12
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	14	0.12
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	15	0.12
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	18	0.12
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	6	0.12
(1,117)	1:29:A:LYS:H	1:33:A:GLN:HE21	2	0.12
(1,79)	1:24:A:GLU:H	1:24:A:GLU:HG2	1	0.12
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	9	0.12
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	17	0.12
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	19	0.12
(1,22)	1:11:A:GLN:H	1:11:A:GLN:HB2	7	0.12
(1,13)	1:6:A:PHE:HB2	1:6:A:PHE:HE1	9	0.12
(1,8)	1:4:A:GLU:HA	1:6:A:PHE:H	16	0.12
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	6	0.11
(2,210)	1:59:A:LEU:O	1:92:A:VAL:N	14	0.11
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	2	0.11
(2,204)	1:58:A:LEU:N	1:125:A:VAL:O	8	0.11
(2,181)	1:96:A:GLY:O	1:100:A:GLU:N	18	0.11
(2,175)	1:78:A:ILE:O	1:82:A:CYS:N	8	0.11
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	3	0.11
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	13	0.11
(2,170)	1:73:A:ILE:O	1:77:A:LEU:N	17	0.11
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	3	0.11
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	16	0.11
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	1	0.11
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	6	0.11
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	17	0.11
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	1	0.11
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	5	0.11
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	6	0.11
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	11	0.11
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	15	0.11
(2,115)	1:59:A:LEU:N	1:90:A:LEU:O	18	0.11
(2,115)	1:59:A:LEU:N	1:90:A:LEU:O	20	0.11
(2,69)	1:81:A:PHE:O	1:84:A:GLU:H	7	0.11
(2,69)	1:81:A:PHE:O	1:84:A:GLU:H	17	0.11
(2,68)	1:80:A:ALA:O	1:84:A:GLU:N	5	0.11
(2,62)	1:77:A:LEU:O	1:81:A:PHE:N	19	0.11
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	2	0.11
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	7	0.11
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	9	0.11
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	14	0.11
(2,31)	1:30:A:ALA:O	1:34:A:ARG:H	4	0.11
(2,31)	1:30:A:ALA:O	1:34:A:ARG:H	17	0.11
(2,31)	1:30:A:ALA:O	1:34:A:ARG:H	19	0.11
(2,22)	1:25:A:GLU:O	1:29:A:LYS:N	3	0.11
(2,22)	1:25:A:GLU:O	1:29:A:LYS:N	20	0.11
(2,20)	1:24:A:GLU:O	1:28:A:SER:N	1	0.11
(2,16)	1:22:A:ALA:O	1:26:A:VAL:N	16	0.11
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	7	0.11
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	9	0.11
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	15	0.11
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	8	0.11
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	15	0.11
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD11	9	0.11
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD12	9	0.11
(1,808)	1:146:A:PHE:HE1	1:160:A:ILE:HD13	9	0.11
(1,798)	1:140:A:LEU:HD11	1:145:A:CYS:H	4	0.11
(1,798)	1:140:A:LEU:HD12	1:145:A:CYS:H	4	0.11
(1,798)	1:140:A:LEU:HD13	1:145:A:CYS:H	4	0.11
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	1	0.11
(1,787)	1:128:A:THR:HB	1:135:A:TRP:HE1	11	0.11
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	2	0.11
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	9	0.11
(1,781)	1:121:A:ASP:H	1:123:A:HIS:H	16	0.11
(1,778)	1:104:A:LEU:HG	1:165:A:ARG:HE	3	0.11
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	4	0.11
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	4	0.11
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	4	0.11
(1,774)	1:98:A:LEU:HD21	1:100:A:GLU:H	3	0.11
(1,774)	1:98:A:LEU:HD22	1:100:A:GLU:H	3	0.11
(1,774)	1:98:A:LEU:HD23	1:100:A:GLU:H	3	0.11
(1,771)	1:97:A:ARG:H	1:162:A:LEU:HD11	10	0.11
(1,771)	1:97:A:ARG:H	1:162:A:LEU:HD12	10	0.11
(1,771)	1:97:A:ARG:H	1:162:A:LEU:HD13	10	0.11
(1,755)	1:90:A:LEU:HB2	1:159:A:VAL:HA	20	0.11
(1,739)	1:75:A:PHE:HZ	1:123:A:HIS:HB3	2	0.11
(1,739)	1:75:A:PHE:HZ	1:123:A:HIS:HB3	5	0.11
(1,738)	1:73:A:ILE:HB	1:76:A:THR:H	19	0.11
(1,734)	1:71:A:LEU:HD21	1:75:A:PHE:HB3	2	0.11
(1,734)	1:71:A:LEU:HD22	1:75:A:PHE:HB3	2	0.11
(1,734)	1:71:A:LEU:HD23	1:75:A:PHE:HB3	2	0.11
(1,728)	1:64:A:ASP:HB3	1:67:A:ARG:H	13	0.11
(1,721)	1:61:A:ALA:HB1	1:75:A:PHE:HE1	6	0.11
(1,721)	1:61:A:ALA:HB2	1:75:A:PHE:HE1	6	0.11
(1,721)	1:61:A:ALA:HB3	1:75:A:PHE:HE1	6	0.11
(1,720)	1:61:A:ALA:HB1	1:75:A:PHE:HD1	5	0.11
(1,720)	1:61:A:ALA:HB2	1:75:A:PHE:HD1	5	0.11
(1,720)	1:61:A:ALA:HB3	1:75:A:PHE:HD1	5	0.11
(1,720)	1:61:A:ALA:HB1	1:75:A:PHE:HD1	8	0.11
(1,720)	1:61:A:ALA:HB2	1:75:A:PHE:HD1	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,720)	1:61:A:ALA:HB3	1:75:A:PHE:HD1	8	0.11
(1,719)	1:61:A:ALA:HB1	1:93:A:SER:H	12	0.11
(1,719)	1:61:A:ALA:HB2	1:93:A:SER:H	12	0.11
(1,719)	1:61:A:ALA:HB3	1:93:A:SER:H	12	0.11
(1,717)	1:60:A:ALA:HB1	1:97:A:ARG:H	15	0.11
(1,717)	1:60:A:ALA:HB2	1:97:A:ARG:H	15	0.11
(1,717)	1:60:A:ALA:HB3	1:97:A:ARG:H	15	0.11
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	8	0.11
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	8	0.11
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	8	0.11
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	10	0.11
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	10	0.11
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	10	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD11	12	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD12	12	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD13	12	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD11	16	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD12	16	0.11
(1,702)	1:53:A:ASN:H	1:87:A:ILE:HD13	16	0.11
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD11	17	0.11
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD12	17	0.11
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD13	17	0.11
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD11	17	0.11
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD12	17	0.11
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD13	17	0.11
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD11	17	0.11
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD12	17	0.11
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD13	17	0.11
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD11	19	0.11
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD12	19	0.11
(1,700)	1:46:A:LEU:HD21	1:59:A:LEU:HD13	19	0.11
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD11	19	0.11
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD12	19	0.11
(1,700)	1:46:A:LEU:HD22	1:59:A:LEU:HD13	19	0.11
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD11	19	0.11
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD12	19	0.11
(1,700)	1:46:A:LEU:HD23	1:59:A:LEU:HD13	19	0.11
(1,691)	1:40:A:VAL:HG11	1:75:A:PHE:HB3	3	0.11
(1,691)	1:40:A:VAL:HG12	1:75:A:PHE:HB3	3	0.11
(1,691)	1:40:A:VAL:HG13	1:75:A:PHE:HB3	3	0.11
(1,691)	1:40:A:VAL:HG11	1:75:A:PHE:HB3	12	0.11
(1,691)	1:40:A:VAL:HG12	1:75:A:PHE:HB3	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,691)	1:40:A:VAL:HG13	1:75:A:PHE:HB3	12	0.11
(1,683)	1:37:A:THR:HA	1:42:A:GLU:HB3	7	0.11
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD11	1	0.11
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD12	1	0.11
(1,668)	1:29:A:LYS:H	1:101:A:LEU:HD13	1	0.11
(1,665)	1:26:A:VAL:HG21	1:143:A:LEU:H	7	0.11
(1,665)	1:26:A:VAL:HG22	1:143:A:LEU:H	7	0.11
(1,665)	1:26:A:VAL:HG23	1:143:A:LEU:H	7	0.11
(1,662)	1:26:A:VAL:HB	1:28:A:SER:H	19	0.11
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	3	0.11
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	3	0.11
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	3	0.11
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	3	0.11
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	3	0.11
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	3	0.11
(1,659)	1:23:A:LEU:HD11	1:92:A:VAL:H	20	0.11
(1,659)	1:23:A:LEU:HD12	1:92:A:VAL:H	20	0.11
(1,659)	1:23:A:LEU:HD13	1:92:A:VAL:H	20	0.11
(1,659)	1:23:A:LEU:HD21	1:92:A:VAL:H	20	0.11
(1,659)	1:23:A:LEU:HD22	1:92:A:VAL:H	20	0.11
(1,659)	1:23:A:LEU:HD23	1:92:A:VAL:H	20	0.11
(1,658)	1:23:A:LEU:HD11	1:58:A:LEU:H	15	0.11
(1,658)	1:23:A:LEU:HD12	1:58:A:LEU:H	15	0.11
(1,658)	1:23:A:LEU:HD13	1:58:A:LEU:H	15	0.11
(1,642)	1:91:A:ARG:H	1:157:A:VAL:HA	5	0.11
(1,642)	1:91:A:ARG:H	1:157:A:VAL:HA	11	0.11
(1,634)	1:58:A:LEU:H	1:125:A:VAL:HB	13	0.11
(1,630)	1:56:A:LEU:H	1:128:A:THR:HB	18	0.11
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG21	11	0.11
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG22	11	0.11
(1,626)	1:55:A:VAL:HA	1:128:A:THR:HG23	11	0.11
(1,614)	1:38:A:VAL:HA	1:126:A:LEU:H	7	0.11
(1,607)	1:37:A:THR:H	1:126:A:LEU:HG	15	0.11
(1,566)	1:154:A:ASP:H	1:154:A:ASP:HB2	18	0.11
(1,450)	1:116:A:ALA:HB1	1:117:A:GLU:H	13	0.11
(1,450)	1:116:A:ALA:HB2	1:117:A:GLU:H	13	0.11
(1,450)	1:116:A:ALA:HB3	1:117:A:GLU:H	13	0.11
(1,440)	1:113:A:SER:H	1:113:A:SER:HB2	11	0.11
(1,431)	1:108:A:ALA:HA	1:111:A:ALA:H	16	0.11
(1,425)	1:107:A:ASP:H	1:107:A:ASP:HB2	13	0.11
(1,421)	1:106:A:THR:H	1:106:A:THR:HG21	18	0.11
(1,421)	1:106:A:THR:H	1:106:A:THR:HG22	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:106:A:THR:H	1:106:A:THR:HG23	18	0.11
(1,401)	1:102:A:LEU:HA	1:103:A:LEU:H	12	0.11
(1,387)	1:99:A:ALA:H	1:102:A:LEU:H	20	0.11
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	18	0.11
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	19	0.11
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	20	0.11
(1,320)	1:81:A:PHE:HB3	1:81:A:PHE:HD1	10	0.11
(1,320)	1:81:A:PHE:HB3	1:81:A:PHE:HD1	16	0.11
(1,320)	1:81:A:PHE:HB3	1:81:A:PHE:HD1	20	0.11
(1,315)	1:80:A:ALA:HB1	1:81:A:PHE:HE1	10	0.11
(1,315)	1:80:A:ALA:HB2	1:81:A:PHE:HE1	10	0.11
(1,315)	1:80:A:ALA:HB3	1:81:A:PHE:HE1	10	0.11
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	3	0.11
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	4	0.11
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	11	0.11
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	4	0.11
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	9	0.11
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	11	0.11
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	20	0.11
(1,178)	1:46:A:LEU:H	1:46:A:LEU:HB2	11	0.11
(1,152)	1:35:A:THR:HA	1:36:A:ILE:H	10	0.11
(1,152)	1:35:A:THR:HA	1:36:A:ILE:H	20	0.11
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	5	0.11
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	10	0.11
(1,133)	1:31:A:LEU:HA	1:34:A:ARG:HB2	15	0.11
(1,133)	1:31:A:LEU:HA	1:34:A:ARG:HB3	15	0.11
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	8	0.11
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	10	0.11
(1,51)	1:19:A:VAL:HB	1:22:A:ALA:H	14	0.11
(1,12)	1:6:A:PHE:HB2	1:6:A:PHE:HD1	11	0.11
(1,12)	1:6:A:PHE:HB3	1:6:A:PHE:HD1	11	0.11
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	2	0.11
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	17	0.11
(1,5)	1:3:A:LEU:HA	1:5:A:GLU:H	20	0.11
(2,180)	1:95:A:PRO:O	1:99:A:ALA:N	9	0.1
(2,168)	1:71:A:LEU:O	1:75:A:PHE:N	6	0.1
(2,155)	1:26:A:VAL:O	1:30:A:ALA:N	4	0.1
(2,147)	1:18:A:LYS:O	1:22:A:ALA:N	6	0.1
(2,135)	1:91:A:ARG:O	1:160:A:ILE:N	16	0.1
(2,69)	1:81:A:PHE:O	1:84:A:GLU:H	4	0.1
(2,69)	1:81:A:PHE:O	1:84:A:GLU:H	12	0.1
(2,38)	1:43:A:ALA:O	1:47:A:LEU:N	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	1	0.1
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	6	0.1
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	17	0.1
(2,13)	1:21:A:ASP:O	1:25:A:GLU:H	18	0.1
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	17	0.1
(1,811)	1:149:A:GLU:HB2	1:152:A:TYR:H	20	0.1
(1,798)	1:140:A:LEU:HD11	1:145:A:CYS:H	10	0.1
(1,798)	1:140:A:LEU:HD12	1:145:A:CYS:H	10	0.1
(1,798)	1:140:A:LEU:HD13	1:145:A:CYS:H	10	0.1
(1,778)	1:104:A:LEU:HG	1:165:A:ARG:HE	6	0.1
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD21	12	0.1
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD22	12	0.1
(1,776)	1:99:A:ALA:H	1:162:A:LEU:HD23	12	0.1
(1,774)	1:98:A:LEU:HD21	1:100:A:GLU:H	18	0.1
(1,774)	1:98:A:LEU:HD22	1:100:A:GLU:H	18	0.1
(1,774)	1:98:A:LEU:HD23	1:100:A:GLU:H	18	0.1
(1,747)	1:78:A:ILE:HG12	1:82:A:CYS:H	18	0.1
(1,740)	1:75:A:PHE:HZ	1:123:A:HIS:HD2	16	0.1
(1,717)	1:60:A:ALA:HB1	1:97:A:ARG:H	4	0.1
(1,717)	1:60:A:ALA:HB2	1:97:A:ARG:H	4	0.1
(1,717)	1:60:A:ALA:HB3	1:97:A:ARG:H	4	0.1
(1,707)	1:56:A:LEU:HB2	1:89:A:ILE:H	6	0.1
(1,703)	1:54:A:VAL:HG11	1:85:A:ASN:H	17	0.1
(1,703)	1:54:A:VAL:HG12	1:85:A:ASN:H	17	0.1
(1,703)	1:54:A:VAL:HG13	1:85:A:ASN:H	17	0.1
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD11	2	0.1
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD12	2	0.1
(1,699)	1:41:A:TYR:HB2	1:71:A:LEU:HD13	2	0.1
(1,686)	1:39:A:GLY:H	1:125:A:VAL:HB	10	0.1
(1,681)	1:32:A:SER:H	1:105:A:GLU:HG2	8	0.1
(1,679)	1:31:A:LEU:HG	1:33:A:GLN:H	11	0.1
(1,679)	1:31:A:LEU:HG	1:33:A:GLN:H	19	0.1
(1,671)	1:29:A:LYS:HB2	1:135:A:TRP:HZ2	8	0.1
(1,666)	1:28:A:SER:HA	1:108:A:ALA:H	4	0.1
(1,642)	1:91:A:ARG:H	1:157:A:VAL:HA	15	0.1
(1,631)	1:56:A:LEU:HB2	1:127:A:VAL:H	5	0.1
(1,631)	1:56:A:LEU:HB2	1:127:A:VAL:H	11	0.1
(1,612)	1:37:A:THR:HB	1:127:A:VAL:HA	1	0.1
(1,611)	1:37:A:THR:HB	1:126:A:LEU:H	10	0.1
(1,608)	1:37:A:THR:HG21	1:127:A:VAL:H	20	0.1
(1,608)	1:37:A:THR:HG22	1:127:A:VAL:H	20	0.1
(1,608)	1:37:A:THR:HG23	1:127:A:VAL:H	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:150:A:SER:H	1:153:A:MET:H	17	0.1
(1,413)	1:104:A:LEU:HB2	1:105:A:GLU:H	19	0.1
(1,396)	1:101:A:LEU:H	1:104:A:LEU:H	3	0.1
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	7	0.1
(1,364)	1:94:A:ASN:HA	1:98:A:LEU:H	17	0.1
(1,281)	1:74:A:HIS:HA	1:75:A:PHE:HD1	20	0.1
(1,263)	1:71:A:LEU:HD11	1:72:A:GLN:HG2	15	0.1
(1,263)	1:71:A:LEU:HD12	1:72:A:GLN:HG2	15	0.1
(1,263)	1:71:A:LEU:HD13	1:72:A:GLN:HG2	15	0.1
(1,238)	1:65:A:ASP:HA	1:66:A:ASP:H	14	0.1
(1,237)	1:64:A:ASP:HA	1:65:A:ASP:H	19	0.1
(1,152)	1:35:A:THR:HA	1:36:A:ILE:H	15	0.1
(1,139)	1:33:A:GLN:HA	1:34:A:ARG:HA	19	0.1
(1,10)	1:5:A:GLU:HB2	1:6:A:PHE:H	4	0.1

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

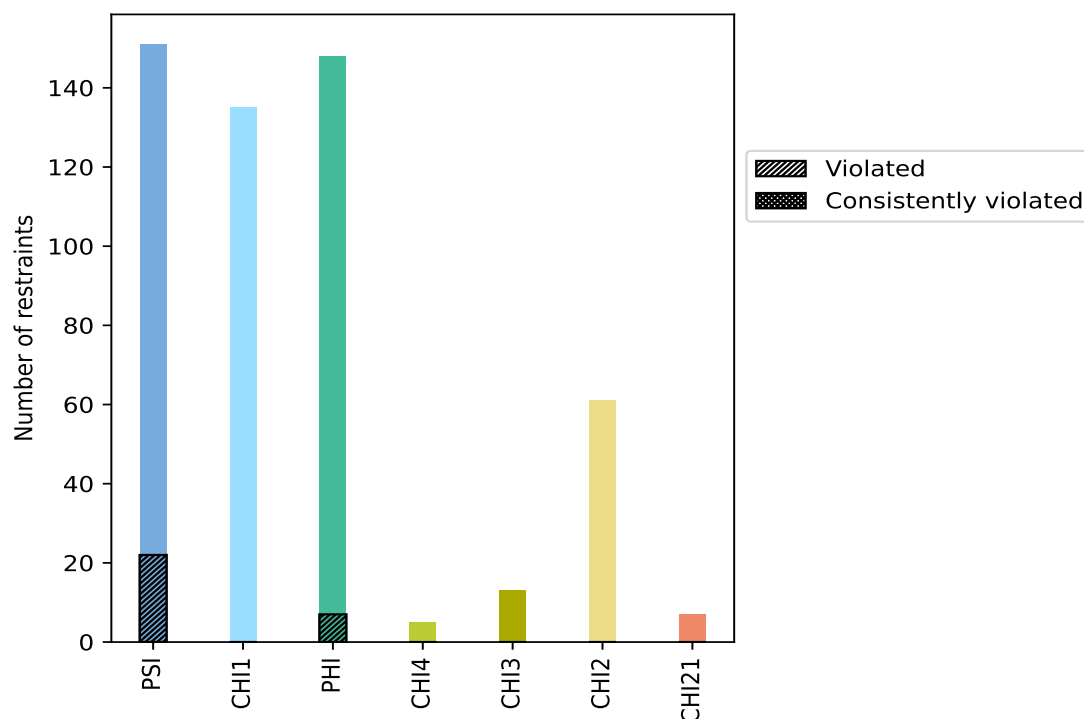
10.1 Summary of dihedral-angle violations [i](#)

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
PSI	151	29.0	22	14.6	4.2	0	0.0	0.0
CHI1	135	26.0	0	0.0	0.0	0	0.0	0.0
PHI	148	28.5	7	4.7	1.3	0	0.0	0.0
CHI4	5	1.0	0	0.0	0.0	0	0.0	0.0
CHI3	13	2.5	0	0.0	0.0	0	0.0	0.0
CHI2	61	11.7	0	0.0	0.0	0	0.0	0.0
CHI21	7	1.3	0	0.0	0.0	0	0.0	0.0
Total	520	100.0	29	5.6	5.6	0	0.0	0.0

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](#)



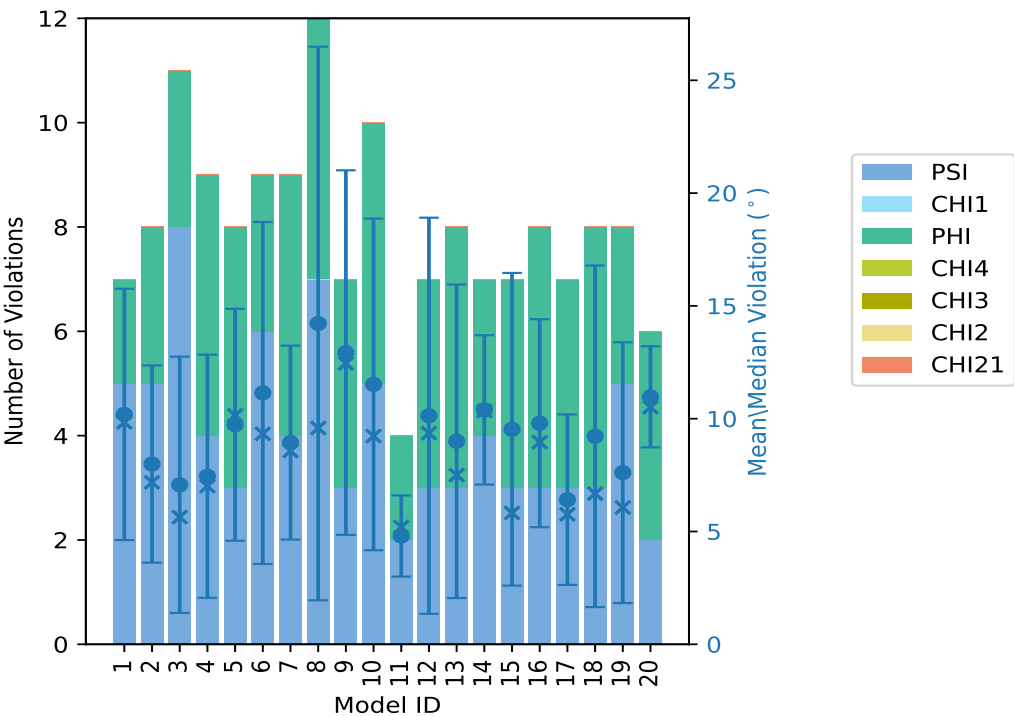
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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 (°)
	PSI	CHI1	PHI	CHI4	CHI3	CHI2	CHI21	Total				
1	5	0	2	0	0	0	0	7	10.19	18.01	5.57	9.84
2	5	0	3	0	0	0	0	8	7.99	14.61	4.37	7.18
3	8	0	3	0	0	0	0	11	7.07	20.76	5.68	5.64
4	4	0	5	0	0	0	0	9	7.45	19.93	5.39	7.01
5	3	0	5	0	0	0	0	8	9.73	18.26	5.14	10.15
6	6	0	3	0	0	0	0	9	11.14	24.74	7.58	9.33
7	4	0	5	0	0	0	0	9	8.94	14.41	4.3	8.57
8	7	0	5	0	0	0	0	12	14.22	40.39	12.27	9.59
9	3	0	4	0	0	0	0	7	12.93	28.82	8.08	12.45
10	5	0	5	0	0	0	0	10	11.52	28.85	7.35	9.23
11	2	0	2	0	0	0	0	4	4.8	6.64	1.8	5.2
12	3	0	4	0	0	0	0	7	10.13	28.8	8.78	9.36
13	3	0	5	0	0	0	0	8	9.0	24.07	6.95	7.5
14	4	0	3	0	0	0	0	7	10.39	15.07	3.31	10.34
15	3	0	4	0	0	0	0	7	9.53	20.87	6.93	5.82
16	3	0	5	0	0	0	0	8	9.8	18.17	4.61	8.96
17	3	0	4	0	0	0	0	7	6.41	14.78	3.78	5.76
18	3	0	5	0	0	0	0	8	9.22	27.04	7.57	6.68
19	5	0	3	0	0	0	0	8	7.61	21.31	5.78	6.06
20	2	0	4	0	0	0	0	6	10.97	15.6	2.24	10.51

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

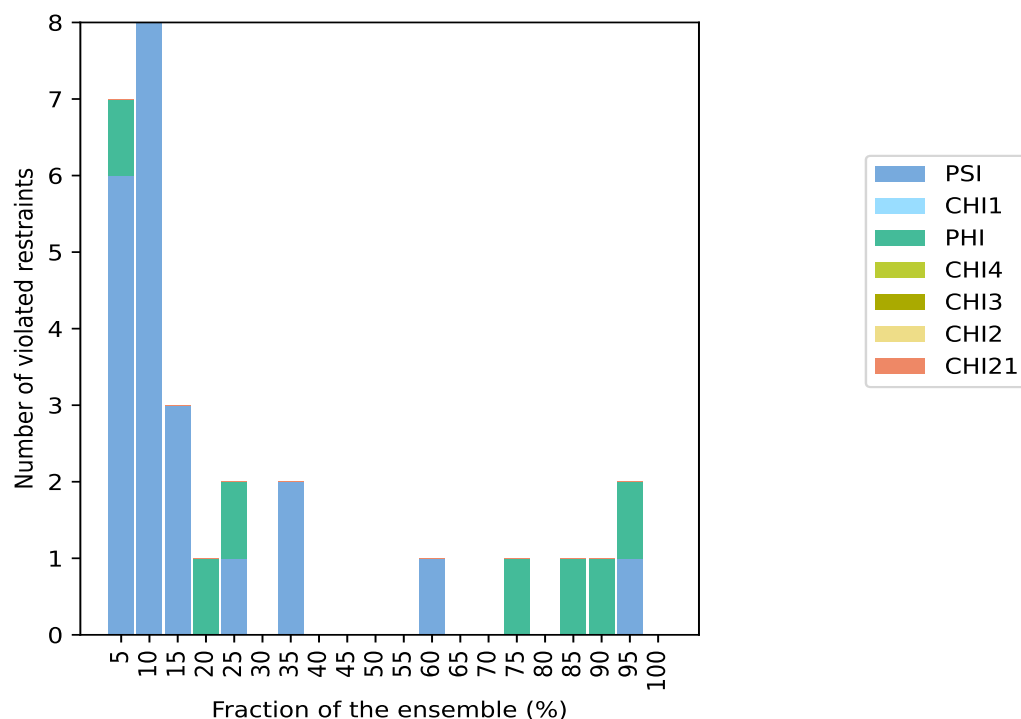
10.3 Dihedral-angle violation statistics for the ensemble

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.

PSI	Number of violated restraints							Fraction of the ensemble	
	CHI1	PHI	CHI4	CHI3	CHI2	CHI21	Total	Count ¹	%
6	0	1	0	0	0	0	7	1	5.0
8	0	0	0	0	0	0	8	2	10.0
3	0	0	0	0	0	0	3	3	15.0
0	0	1	0	0	0	0	1	4	20.0
1	0	1	0	0	0	0	2	5	25.0
0	0	0	0	0	0	0	0	6	30.0
2	0	0	0	0	0	0	2	7	35.0
0	0	0	0	0	0	0	0	8	40.0
0	0	0	0	0	0	0	0	9	45.0
0	0	0	0	0	0	0	0	10	50.0
0	0	0	0	0	0	0	0	11	55.0
1	0	0	0	0	0	0	1	12	60.0
0	0	0	0	0	0	0	0	13	65.0
0	0	0	0	0	0	0	0	14	70.0
0	0	1	0	0	0	0	1	15	75.0
0	0	0	0	0	0	0	0	16	80.0
0	0	1	0	0	0	0	1	17	85.0
0	0	1	0	0	0	0	1	18	90.0
1	0	1	0	0	0	0	2	19	95.0
0	0	0	0	0	0	0	0	20	100.0

¹ Number of models with violations

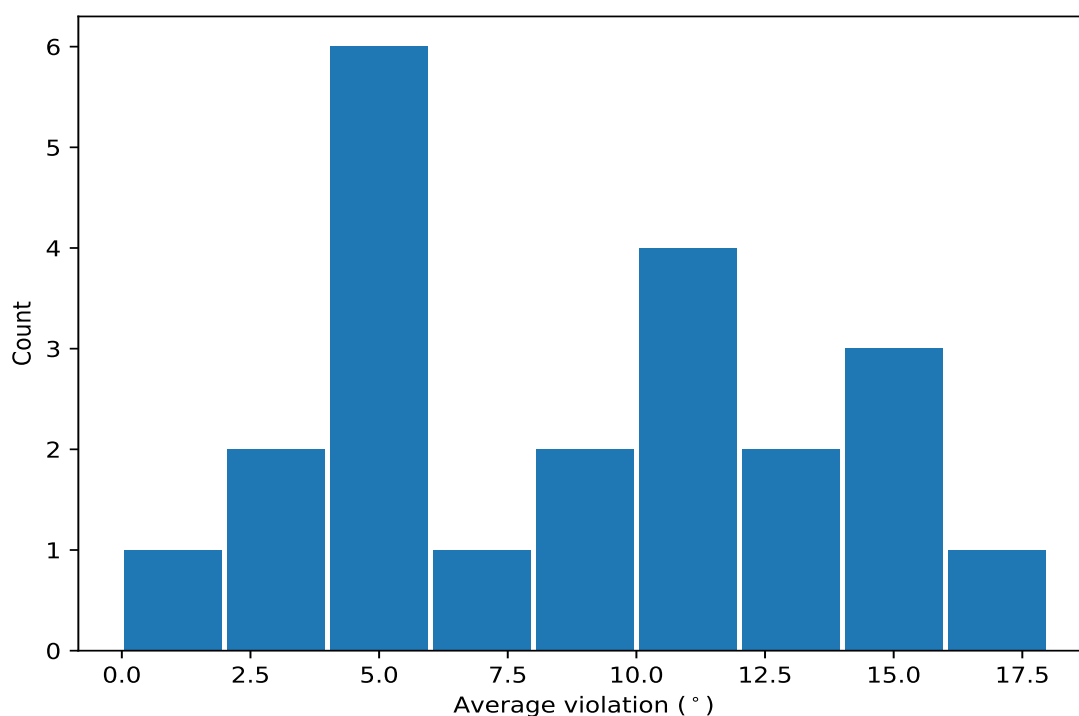
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	19	12.99	3.73	14.04
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	19	7.26	2.15	7.0
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	18	17.48	6.56	17.83
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	17	9.16	4.41	8.57
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	15	5.61	2.68	5.82
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	12	5.64	2.86	6.0
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	7	13.13	7.51	13.4
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	7	4.48	3.3	4.15
(1,516)	1:156:A:TRP:C	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	5	15.7	12.09	6.72
(1,163)	1:87:A:ILE:N	1:87:A:ILE:CA	1:87:A:ILE:C	1:88:A:ASN:N	5	10.56	5.04	11.8
(1,270)	1:153:A:MET:C	1:154:A:ASP:N	1:154:A:ASP:CA	1:154:A:ASP:C	4	8.57	4.19	9.12
(1,191)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:GLU:N	3	15.91	17.39	5.64
(1,209)	1:116:A:ALA:N	1:116:A:ALA:CA	1:116:A:ALA:C	1:117:A:GLU:N	3	10.73	6.35	9.28
(1,514)	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	1:130:A:PRO:N	3	2.54	1.84	1.38
(1,205)	1:113:A:SER:N	1:113:A:SER:CA	1:113:A:SER:C	1:114:A:GLU:N	2	14.14	10.6	14.14
(1,517)	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	1:158:A:PRO:N	2	11.66	0.08	11.66
(1,233)	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	1:134:A:GLN:N	2	11.42	9.34	11.42
(1,507)	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1:21:A:ASP:N	2	4.99	1.51	4.99
(1,203)	1:112:A:ALA:N	1:112:A:ALA:CA	1:112:A:ALA:C	1:113:A:SER:N	2	4.81	3.8	4.81
(1,211)	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	1:118:A:GLN:N	2	4.36	1.68	4.36
(1,512)	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	1:97:A:ARG:N	2	2.7	0.06	2.7

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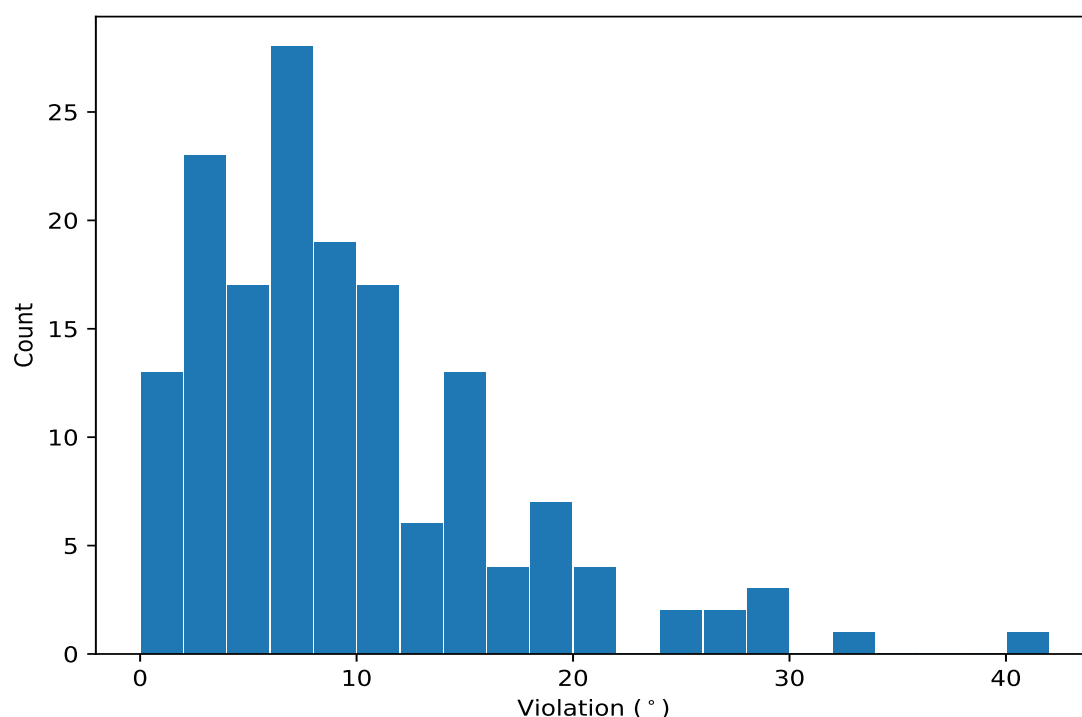
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,213)	1:121:A:ASP:N	1:121:A:ASP:CA	1:121:A:ASP:C	1:122:A:LEU:N	2	1.72	0.5	1.72

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 (°)
(1,191)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:GLU:N	8	40.39
(1,516)	1:156:A:TRP:C	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	8	32.06
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	10	28.85
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	9	28.82
(1,516)	1:156:A:TRP:C	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	12	28.8
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	18	27.04

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	8	26.3
(1,205)	1:113:A:SER:N	1:113:A:SER:CA	1:113:A:SER:C	1:114:A:GLU:N	6	24.74
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	13	24.07
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	19	21.31
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	6	21.01
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	15	20.87
(1,233)	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	1:134:A:GLN:N	3	20.76
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	4	19.93
(1,209)	1:116:A:ALA:N	1:116:A:ALA:CA	1:116:A:ALA:C	1:117:A:GLU:N	9	19.13
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	10	18.97
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	15	18.66
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	5	18.26
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	16	18.17
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	1	18.01
(1,239)	1:136:A:LYS:N	1:136:A:LYS:CA	1:136:A:LYS:C	1:137:A:ASP:N	1	17.69
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	8	17.65
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	8	16.86
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	6	16.25
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	20	15.6
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	13	15.36
(1,163)	1:87:A:ILE:N	1:87:A:ILE:CA	1:87:A:ILE:C	1:88:A:ASN:N	16	15.14
(1,163)	1:87:A:ILE:N	1:87:A:ILE:CA	1:87:A:ILE:C	1:88:A:ASN:N	14	15.07
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	10	14.94
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	17	14.78
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	18	14.62
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	2	14.61
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	14	14.55
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	12	14.49
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	7	14.41
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	5	14.17
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	3	14.04
(1,270)	1:153:A:MET:C	1:154:A:ASP:N	1:154:A:ASP:CA	1:154:A:ASP:C	7	13.89
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	9	13.4
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	2	13.36
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	5	12.97
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	7	12.59
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	9	12.45
(1,163)	1:87:A:ILE:N	1:87:A:ILE:CA	1:87:A:ILE:C	1:88:A:ASN:N	8	11.8
(1,517)	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	1:158:A:PRO:N	10	11.74
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1	11.68
(1,517)	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	1:158:A:PRO:N	7	11.58
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	16	11.53
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	14	11.52
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	2	11.39
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	20	11.23
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	6	10.94
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	15	10.88
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	5	10.82
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	20	10.59
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	20	10.43
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	14	10.34

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	12	10.28
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	19	10.15
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	4	10.04
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	1	9.84
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	3	9.59
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	5	9.48
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	12	9.36
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	20	9.36
(1,163)	1:87:A:ILE:N	1:87:A:ILE:CA	1:87:A:ILE:C	1:88:A:ASN:N	6	9.33
(1,209)	1:116:A:ALA:N	1:116:A:ALA:CA	1:116:A:ALA:C	1:117:A:GLU:N	16	9.28
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	10	9.24
(1,270)	1:153:A:MET:C	1:154:A:ASP:N	1:154:A:ASP:CA	1:154:A:ASP:C	10	9.21
(1,270)	1:153:A:MET:C	1:154:A:ASP:N	1:154:A:ASP:CA	1:154:A:ASP:C	4	9.04
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	4	9.03
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	13	8.81
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	3	8.64
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	16	8.64
(1,203)	1:112:A:ALA:N	1:112:A:ALA:CA	1:112:A:ALA:C	1:113:A:SER:N	20	8.61
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	7	8.57
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	14	8.52
(1,75)	1:41:A:TYR:N	1:41:A:TYR:CA	1:41:A:TYR:C	1:42:A:GLU:N	13	8.28
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	6	8.16
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	19	7.68
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	18	7.49
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	8	7.38
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	2	7.36
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	10	7.34
(1,284)	1:164:A:GLU:C	1:165:A:ARG:N	1:165:A:ARG:CA	1:165:A:ARG:C	18	7.32
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	8	7.27
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	7	7.07
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	7	7.02
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	4	7.01
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	2	7.0
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	17	6.89
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	1	6.85
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	9	6.77
(1,516)	1:156:A:TRP:C	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	13	6.72
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	11	6.64
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	10	6.64
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	10	6.53
(1,507)	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1:21:A:ASP:N	14	6.5
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	16	6.49
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	19	6.33
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	3	6.29
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	11	6.25
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	14	6.22
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	17	6.21
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	4	6.1
(1,211)	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	1:118:A:GLN:N	18	6.05
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	6	6.0
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	15	5.82

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	19	5.78
(1,516)	1:156:A:TRP:C	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	5	5.78
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	17	5.76
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	17	5.74
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	19	5.64
(1,191)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:GLU:N	3	5.64
(1,518)	1:158:A:PRO:N	1:158:A:PRO:CA	1:158:A:PRO:C	1:159:A:VAL:N	9	5.58
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	18	5.16
(1,514)	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	1:130:A:PRO:N	8	5.13
(1,516)	1:156:A:TRP:C	1:157:A:VAL:N	1:157:A:VAL:CA	1:157:A:VAL:C	16	5.12
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	2	5.02
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	5	4.88
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	3	4.37
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	9	4.37
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	7	4.32
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	11	4.15
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	16	3.99
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	18	3.93
(1,73)	1:40:A:VAL:N	1:40:A:VAL:CA	1:40:A:VAL:C	1:41:A:TYR:N	12	3.85
(1,513)	1:128:A:THR:C	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	17	3.83
(1,209)	1:116:A:ALA:N	1:116:A:ALA:CA	1:116:A:ALA:C	1:117:A:GLU:N	1	3.79
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	13	3.61
(1,511)	1:95:A:PRO:C	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	13	3.59
(1,205)	1:113:A:SER:N	1:113:A:SER:CA	1:113:A:SER:C	1:114:A:GLU:N	15	3.53
(1,519)	1:161:A:ASN:C	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	15	3.52
(1,507)	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	1:21:A:ASP:N	1	3.48
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	15	3.45
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	8	3.1
(1,271)	1:154:A:ASP:N	1:154:A:ASP:CA	1:154:A:ASP:C	1:155:A:GLN:N	2	2.98
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	12	2.94
(1,512)	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	1:97:A:ARG:N	3	2.77
(1,159)	1:85:A:ASN:N	1:85:A:ASN:CA	1:85:A:ASN:C	1:86:A:ASP:N	3	2.73
(1,211)	1:117:A:GLU:N	1:117:A:GLU:CA	1:117:A:GLU:C	1:118:A:GLN:N	4	2.68
(1,512)	1:96:A:GLY:N	1:96:A:GLY:CA	1:96:A:GLY:C	1:97:A:ARG:N	6	2.64
(1,229)	1:131:A:HIS:N	1:131:A:HIS:CA	1:131:A:HIS:C	1:132:A:SER:N	19	2.59
(1,213)	1:121:A:ASP:N	1:121:A:ASP:CA	1:121:A:ASP:C	1:122:A:LEU:N	2	2.23
(1,270)	1:153:A:MET:C	1:154:A:ASP:N	1:154:A:ASP:CA	1:154:A:ASP:C	11	2.14
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	18	2.13
(1,233)	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	1:134:A:GLN:N	4	2.08
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	3	1.79
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	10	1.72
(1,191)	1:104:A:LEU:N	1:104:A:LEU:CA	1:104:A:LEU:C	1:105:A:GLU:N	17	1.69
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	8	1.59
(1,515)	1:138:A:PRO:N	1:138:A:PRO:CA	1:138:A:PRO:C	1:139:A:ALA:N	13	1.58
(1,163)	1:87:A:ILE:N	1:87:A:ILE:CA	1:87:A:ILE:C	1:88:A:ASN:N	5	1.46
(1,514)	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	1:130:A:PRO:N	19	1.38
(1,213)	1:121:A:ASP:N	1:121:A:ASP:CA	1:121:A:ASP:C	1:122:A:LEU:N	6	1.22
(1,509)	1:51:A:PRO:N	1:51:A:PRO:CA	1:51:A:PRO:C	1:52:A:ASP:N	3	1.18
(1,520)	1:162:A:LEU:N	1:162:A:LEU:CA	1:162:A:LEU:C	1:163:A:PRO:N	12	1.17
(1,506)	1:19:A:VAL:C	1:20:A:GLY:N	1:20:A:GLY:CA	1:20:A:GLY:C	8	1.14
(1,514)	1:129:A:ASN:N	1:129:A:ASN:CA	1:129:A:ASN:C	1:130:A:PRO:N	4	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,203)	1:112:A:ALA:N	1:112:A:ALA:CA	1:112:A:ALA:C	1:113:A:SER:N	7	1.01