



Full wwPDB NMR Structure Validation Report ⓘ

Sep 16, 2024 – 01:30 pm BST

PDB ID : 9GDT
BMRB ID : 34944
Title : Trp-cage fortified Tc5b-Exenatide chimera with disulfide bond cyclization (Ex-4-Tc5bCC) at 299K
Authors : Horvath, D.
Deposited on : 2024-08-06

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.38.2

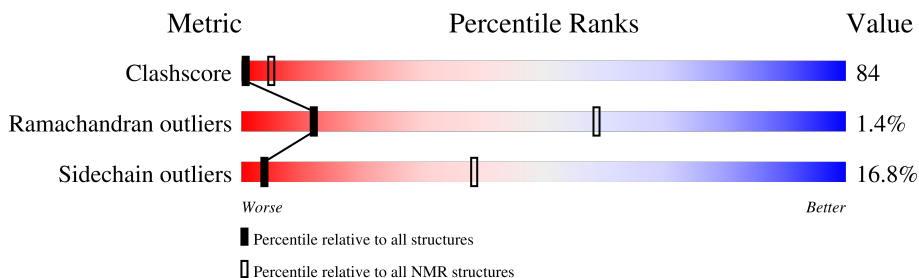
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 51%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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	25	

2 Ensemble composition and analysis

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

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:4-A:25 (22)	0.28	10

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 2 clusters and 1 single-model cluster was found.

Cluster number	Models
1	4, 7, 8, 9, 10
2	1, 2, 5, 6
Single-model clusters	3

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 384 atoms, of which 187 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS).

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	25	384	123	187	34	38	2	0

4 Residue-property plots [i](#)

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: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



4.2 Scores per residue for each member of the ensemble

Colouring as in section [4.1](#) above.

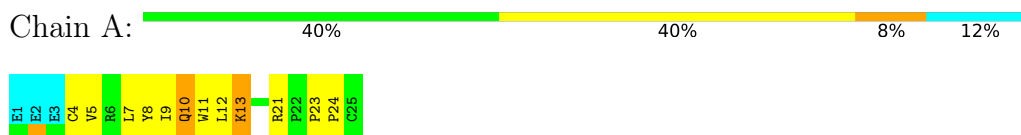
4.2.1 Score per residue for model 1

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



4.2.2 Score per residue for model 2

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



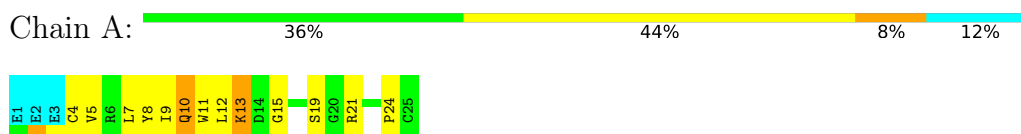
4.2.3 Score per residue for model 3

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



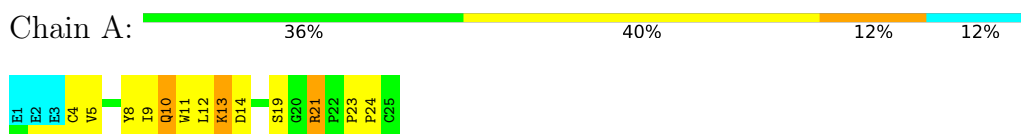
4.2.4 Score per residue for model 4

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



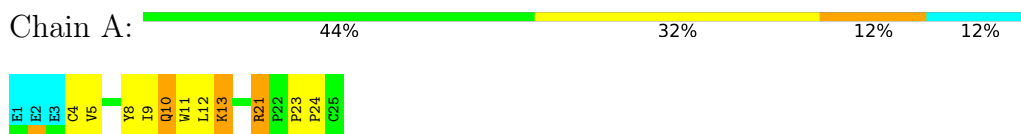
4.2.5 Score per residue for model 5

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



4.2.6 Score per residue for model 6

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



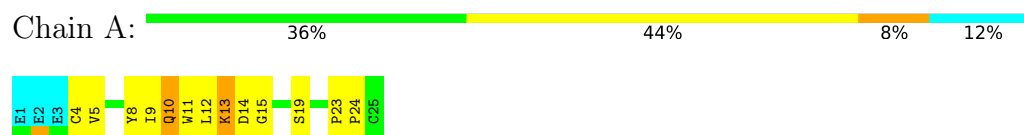
4.2.7 Score per residue for model 7

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



4.2.8 Score per residue for model 8

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



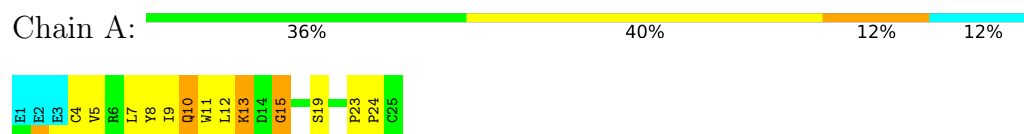
4.2.9 Score per residue for model 9

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



4.2.10 Score per residue for model 10 (medoid)

- Molecule 1: Trp-cage fortified Tc5b-Exenatide chimera (Ex-4-Tc5bSS)



5 Refinement protocol and experimental data overview

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

Of the 20 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CcpNmr Analysis Assign	refinement	2.4.1.
ARIA2alpha	structure calculation	2.3.1

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	167
Number of shifts mapped to atoms	167
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	51%

6 Model quality i

6.1 Standard geometry i

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	170	167	167	28±4
All	All	1700	1670	1670	283

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 84.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:ILE:HG12	1:A:12:LEU:HD12	0.89	1.45	3	1
1:A:8:TYR:CZ	1:A:12:LEU:HD11	0.84	2.08	3	3
1:A:8:TYR:O	1:A:11:TRP:HB3	0.79	1.76	3	10
1:A:11:TRP:HE3	1:A:12:LEU:HD22	0.76	1.41	4	9
1:A:11:TRP:CE3	1:A:12:LEU:HD22	0.73	2.18	8	9
1:A:9:ILE:HA	1:A:12:LEU:HD23	0.72	1.61	2	9
1:A:11:TRP:CZ3	1:A:23:PRO:HB3	0.70	2.22	1	8
1:A:8:TYR:CE2	1:A:12:LEU:HD11	0.68	2.24	3	1
1:A:9:ILE:O	1:A:13:LYS:HD3	0.67	1.90	6	7
1:A:8:TYR:CE2	1:A:12:LEU:HD21	0.66	2.26	10	8
1:A:8:TYR:C	1:A:12:LEU:HD23	0.64	2.13	5	9
1:A:9:ILE:HA	1:A:12:LEU:HB2	0.62	1.71	9	10
1:A:8:TYR:CZ	1:A:12:LEU:HD21	0.62	2.30	8	9
1:A:9:ILE:CA	1:A:12:LEU:HD23	0.62	2.25	2	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:8:TYR:CE1	1:A:12:LEU:HD21	0.61	2.30	5	8
1:A:8:TYR:O	1:A:12:LEU:HG	0.61	1.96	3	1
1:A:5:VAL:HA	1:A:8:TYR:HB3	0.60	1.72	3	7
1:A:8:TYR:O	1:A:12:LEU:HD23	0.59	1.98	10	9
1:A:8:TYR:CD1	1:A:12:LEU:HD21	0.58	2.33	6	6
1:A:9:ILE:CG1	1:A:12:LEU:HD12	0.58	2.26	3	1
1:A:11:TRP:CE3	1:A:23:PRO:HB3	0.57	2.34	5	4
1:A:10:GLN:HA	1:A:13:LYS:CE	0.56	2.31	9	5
1:A:9:ILE:HG22	1:A:13:LYS:HD2	0.54	1.79	2	2
1:A:11:TRP:CZ2	1:A:23:PRO:HD3	0.54	2.38	5	3
1:A:8:TYR:HA	1:A:24:PRO:CG	0.53	2.33	10	10
1:A:8:TYR:CD2	1:A:12:LEU:HD21	0.53	2.38	4	8
1:A:11:TRP:CH2	1:A:23:PRO:HB3	0.53	2.39	10	4
1:A:11:TRP:HE3	1:A:12:LEU:CD2	0.52	2.16	8	9
1:A:14:ASP:OD2	1:A:19:SER:HB2	0.51	2.06	5	3
1:A:8:TYR:HA	1:A:24:PRO:HG2	0.50	1.83	6	9
1:A:4:CYS:SG	1:A:5:VAL:HG23	0.50	2.47	3	1
1:A:8:TYR:O	1:A:11:TRP:N	0.50	2.44	2	7
1:A:9:ILE:HA	1:A:12:LEU:HD12	0.50	1.81	3	1
1:A:9:ILE:HA	1:A:12:LEU:CD2	0.49	2.35	8	9
1:A:9:ILE:HA	1:A:12:LEU:CB	0.49	2.37	8	6
1:A:5:VAL:CG1	1:A:9:ILE:HD12	0.48	2.37	6	8
1:A:9:ILE:HG12	1:A:12:LEU:CD1	0.48	2.31	3	1
1:A:9:ILE:N	1:A:12:LEU:HD23	0.48	2.24	1	4
1:A:11:TRP:CZ3	1:A:12:LEU:CD2	0.48	2.97	3	1
1:A:10:GLN:HA	1:A:13:LYS:HE3	0.47	1.86	10	3
1:A:8:TYR:CG	1:A:12:LEU:HD21	0.46	2.45	5	5
1:A:11:TRP:CE3	1:A:12:LEU:CD2	0.46	2.96	10	4
1:A:8:TYR:CE2	1:A:12:LEU:CD2	0.46	2.99	9	1
1:A:15:GLY:HA3	1:A:19:SER:HA	0.45	1.88	4	4
1:A:7:LEU:O	1:A:24:PRO:HG2	0.45	2.12	3	1
1:A:4:CYS:SG	1:A:5:VAL:N	0.45	2.89	3	1
1:A:5:VAL:O	1:A:9:ILE:N	0.44	2.42	6	1
1:A:9:ILE:HA	1:A:12:LEU:CG	0.44	2.43	8	2
1:A:8:TYR:CD2	1:A:12:LEU:CD2	0.43	3.01	9	2
1:A:10:GLN:HE21	1:A:13:LYS:HE3	0.43	1.74	10	3
1:A:11:TRP:HE1	1:A:21:ARG:C	0.43	2.17	2	4
1:A:12:LEU:HD22	1:A:12:LEU:N	0.43	2.28	1	4
1:A:9:ILE:HG22	1:A:13:LYS:CD	0.43	2.43	1	1
1:A:5:VAL:HG13	1:A:9:ILE:CD1	0.42	2.44	2	4
1:A:15:GLY:HA3	1:A:19:SER:CA	0.42	2.45	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:7:LEU:O	1:A:10:GLN:HB3	0.42	2.15	9	2
1:A:10:GLN:CD	1:A:13:LYS:HE2	0.42	2.34	4	1
1:A:8:TYR:OH	1:A:12:LEU:HD11	0.42	2.14	9	1
1:A:8:TYR:O	1:A:12:LEU:CD2	0.41	2.68	2	2
1:A:11:TRP:CH2	1:A:17:PRO:HD3	0.41	2.50	9	1
1:A:10:GLN:HA	1:A:13:LYS:HE2	0.41	1.92	7	1
1:A:8:TYR:O	1:A:11:TRP:CB	0.40	2.70	6	2

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	21/25 (84%)	19±1 (92±3%)	1±1 (7±4%)	0±0 (1±2%)	12	59
All	All	210/250 (84%)	193 (92%)	14 (7%)	3 (1%)	12	59

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	A	15	GLY	3

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	19/22 (86%)	16±1 (83±6%)	3±1 (17±6%)	4	38
All	All	190/220 (86%)	158 (83%)	32 (17%)	4	38

All 5 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	4	CYS	9
1	A	10	GLN	8
1	A	13	LYS	8
1	A	21	ARG	6
1	A	6	ARG	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 51% for the well-defined parts and 51% for the entire structure.

7.1 Chemical shift list 2

File name: working_cs.cif

Chemical shift list name: *nef_chemical_shift_list_ShiftList_299K_20160428*

7.1.1 Bookkeeping i

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

Total number of shifts	167
Number of shifts mapped to atoms	167
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing i

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 51%, i.e. 150 atoms were assigned a chemical shift out of a possible 292. 0 out of 3 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	43/105 (41%)	43/43 (100%)	0/44 (0%)	0/18 (0%)
Sidechain	97/166 (58%)	97/108 (90%)	0/50 (0%)	0/8 (0%)
Aromatic	10/21 (48%)	10/10 (100%)	0/10 (0%)	0/1 (0%)
Overall	150/292 (51%)	150/161 (93%)	0/104 (0%)	0/27 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 51%, i.e. 166 atoms were assigned a chemical shift out of a possible 328. 0 out of 3 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	47/120 (39%)	47/49 (96%)	0/50 (0%)	0/21 (0%)
Sidechain	109/187 (58%)	109/120 (91%)	0/59 (0%)	0/8 (0%)
Aromatic	10/21 (48%)	10/10 (100%)	0/10 (0%)	0/1 (0%)
Overall	166/328 (51%)	166/179 (93%)	0/119 (0%)	0/30 (0%)

7.1.4 Statistically unusual chemical shifts [i](#)

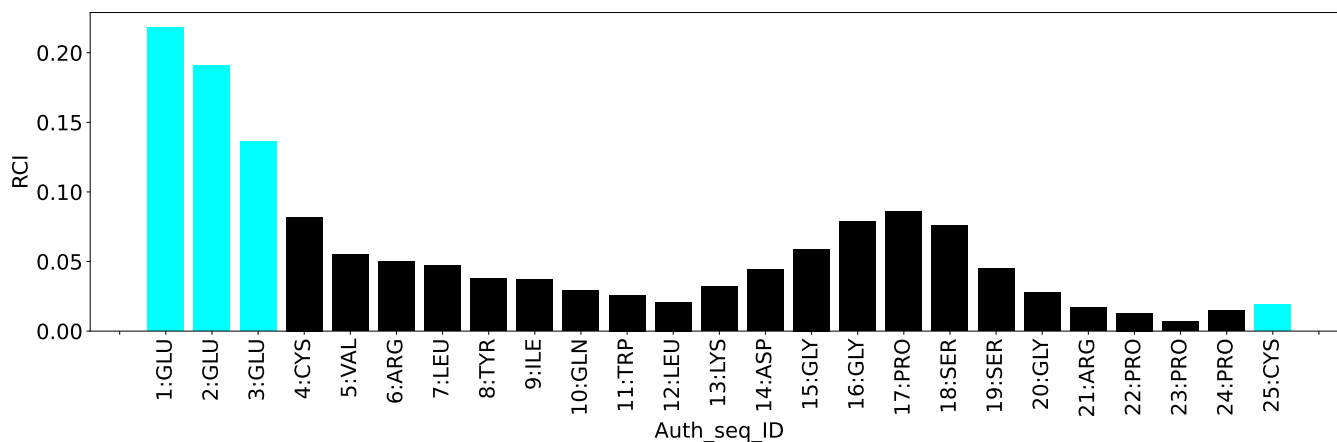
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
2	A	16	GLY	HA2	0.65	2.15 – 5.77	-9.1
2	A	23	PRO	HA	2.24	2.78 – 6.00	-6.7

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	737
Intra-residue ($ i-j =0$)	321
Sequential ($ i-j =1$)	147
Medium range ($ i-j >1$ and $ i-j <5$)	161
Long range ($ i-j \geq 5$)	108
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	29.5
Number of long range restraints per residue ¹	4.3

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)	54.9	0.2
0.2-0.5 (Medium)	102.8	0.5
>0.5 (Large)	98.5	2.39

8.2.2 Average number of dihedral-angle violations per model

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis

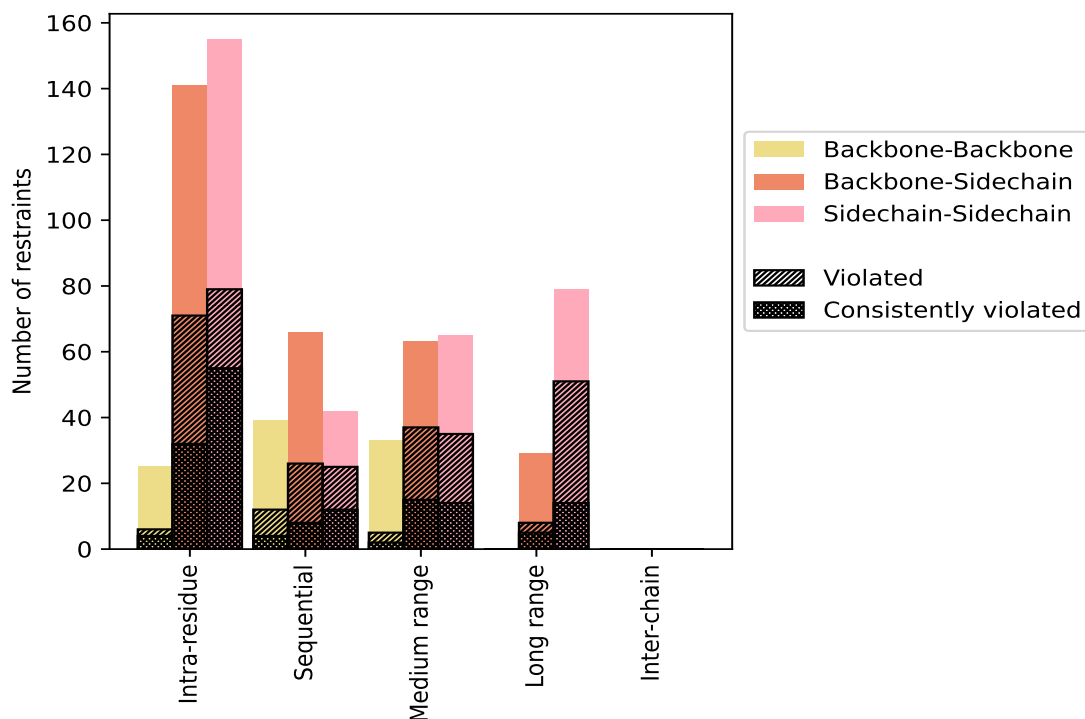
9.1 Summary of distance violations

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 ($i-j =0$)	321	43.6	156	48.6	21.2	91	28.3	12.3
Backbone-Backbone	25	3.4	6	24.0	0.8	4	16.0	0.5
Backbone-Sidechain	141	19.1	71	50.4	9.6	32	22.7	4.3
Sidechain-Sidechain	155	21.0	79	51.0	10.7	55	35.5	7.5
Sequential ($i-j =1$)	147	19.9	63	42.9	8.5	24	16.3	3.3
Backbone-Backbone	39	5.3	12	30.8	1.6	4	10.3	0.5
Backbone-Sidechain	66	9.0	26	39.4	3.5	8	12.1	1.1
Sidechain-Sidechain	42	5.7	25	59.5	3.4	12	28.6	1.6
Medium range ($i-j >1$ & $i-j <5$)	161	21.8	77	47.8	10.4	31	19.3	4.2
Backbone-Backbone	33	4.5	5	15.2	0.7	2	6.1	0.3
Backbone-Sidechain	63	8.5	37	58.7	5.0	15	23.8	2.0
Sidechain-Sidechain	65	8.8	35	53.8	4.7	14	21.5	1.9
Long range ($i-j \geq 5$)	108	14.7	59	54.6	8.0	19	17.6	2.6
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	29	3.9	8	27.6	1.1	5	17.2	0.7
Sidechain-Sidechain	79	10.7	51	64.6	6.9	14	17.7	1.9
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	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	737	100.0	355	48.2	48.2	165	22.4	22.4
Backbone-Backbone	97	13.2	23	23.7	3.1	10	10.3	1.4
Backbone-Sidechain	299	40.6	142	47.5	19.3	60	20.1	8.1
Sidechain-Sidechain	341	46.3	190	55.7	25.8	95	27.9	12.9

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 disulfid bonds are counted in their appropriate category on the x-axis

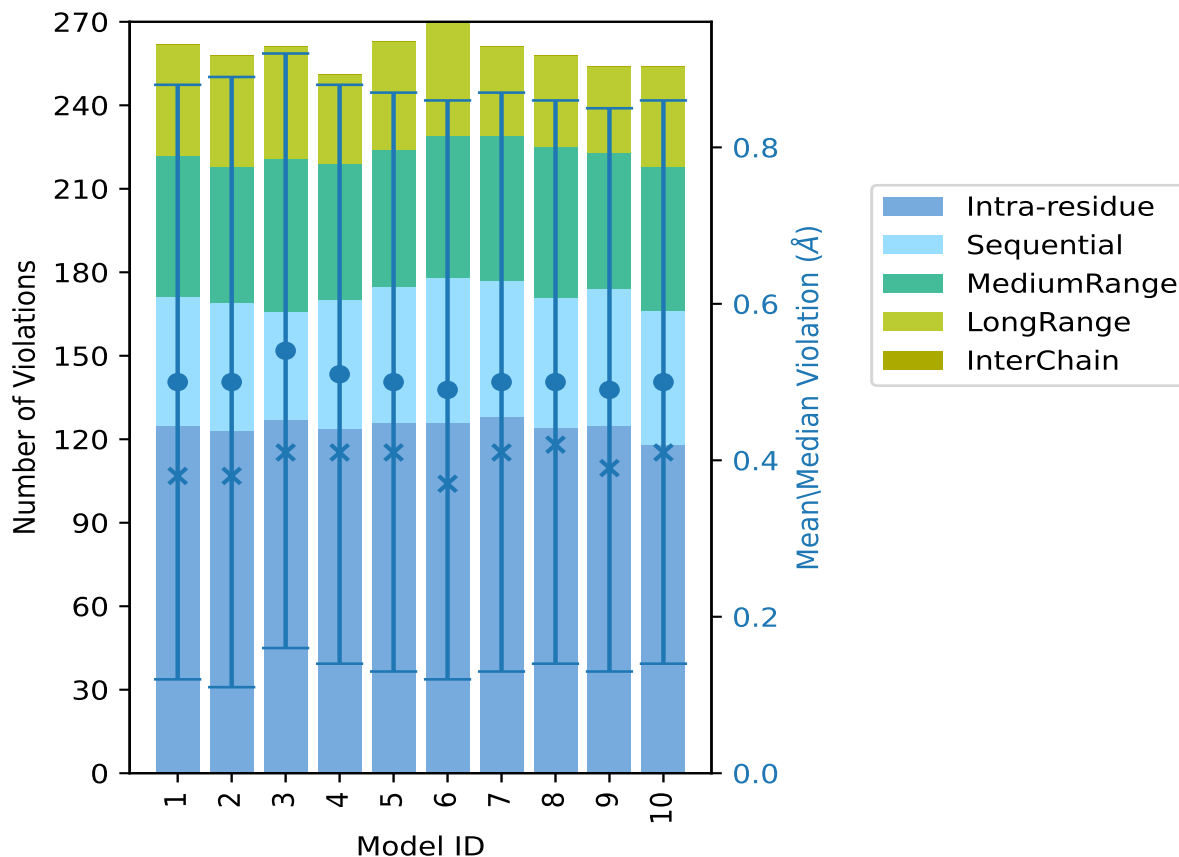
9.2 Distance violation statistics for each model [i](#)

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	125	46	51	40	0	262	0.5	2.1	0.38	0.38
2	123	46	49	40	0	258	0.5	2.25	0.39	0.38
3	127	39	55	40	0	261	0.54	2.16	0.38	0.41
4	124	46	49	32	0	251	0.51	2.35	0.37	0.41
5	126	49	49	39	0	263	0.5	2.11	0.37	0.41
6	126	52	51	41	0	270	0.49	2.15	0.37	0.37
7	128	49	52	32	0	261	0.5	2.39	0.37	0.41
8	124	47	54	33	0	258	0.5	2.19	0.36	0.42
9	125	49	49	31	0	254	0.49	2.0	0.36	0.39
10	118	48	52	36	0	254	0.5	2.15	0.36	0.41

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

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



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

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 382(IR:165, SQ:84, MR:84, LR:49, 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	%
14	9	15	8	0	46	1	10.0
5	0	3	4	0	12	2	20.0
6	2	2	1	0	11	3	30.0

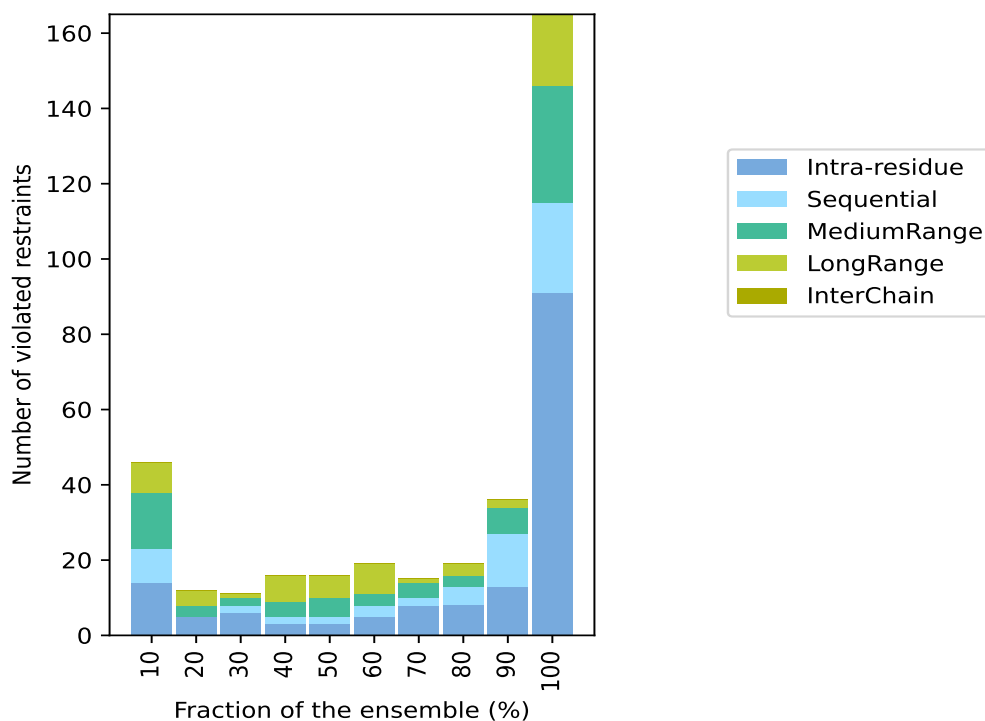
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
3	2	4	7	0	16	4	40.0
3	2	5	6	0	16	5	50.0
5	3	3	8	0	19	6	60.0
8	2	4	1	0	15	7	70.0
8	5	3	3	0	19	8	80.0
13	14	7	2	0	36	9	90.0
91	24	31	19	0	165	10	100.0

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](#)

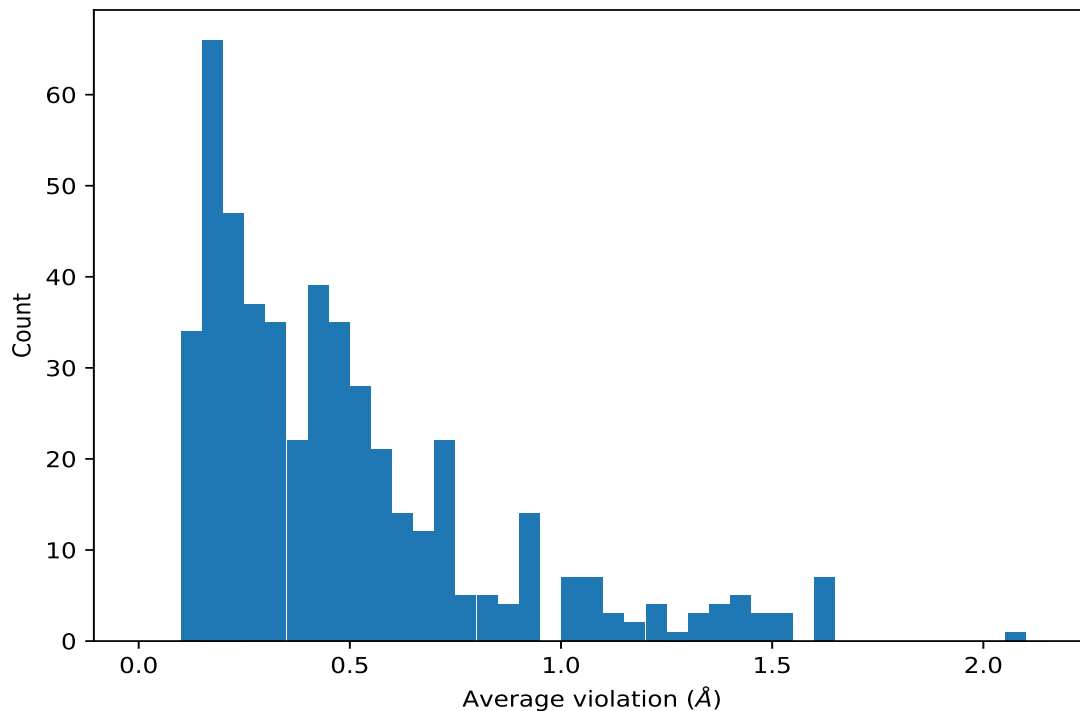


9.4 Most violated distance restraints in the ensemble [i](#)

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)
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	10	2.09	0.21	2.16
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	10	1.62	0.05	1.62
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	10	1.62	0.05	1.62
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	10	1.62	0.05	1.62
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	10	1.61	0.53	1.52
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	10	1.61	0.53	1.52
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	10	1.61	0.53	1.52
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	10	1.6	0.34	1.74
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	10	1.52	0.53	1.43
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	10	1.52	0.53	1.43
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	10	1.52	0.53	1.43
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	1.47	0.14	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	1.47	0.14	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	1.47	0.14	1.51
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	10	1.44	0.25	1.51

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	10	1.42	0.02	1.42
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	10	1.42	0.02	1.42
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	10	1.42	0.02	1.42
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	10	1.4	0.51	1.65
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	10	1.38	0.04	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	10	1.38	0.04	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	10	1.38	0.04	1.39
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	10	1.36	0.14	1.31
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	10	1.34	0.13	1.36
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	10	1.33	0.02	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	10	1.33	0.02	1.33
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	10	1.24	0.05	1.21
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	10	1.23	0.12	1.27
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	10	1.23	0.01	1.23
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	10	1.19	0.01	1.19
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	10	1.15	0.08	1.15
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	10	1.13	0.01	1.13
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	10	1.11	0.17	1.17
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	10	1.11	0.17	1.17
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	10	1.05	0.12	1.02
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	10	1.05	0.12	1.02
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	10	1.05	0.12	1.02
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	10	1.05	0.12	1.02
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	10	1.04	0.15	1.04
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	10	1.02	0.11	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	10	1.02	0.11	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	10	1.02	0.11	1.06
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	10	1.02	0.12	1.06
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	10	1.0	0.11	0.97
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	10	1.0	0.11	0.97
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	10	0.93	0.21	0.83
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	10	0.93	0.18	0.97
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	10	0.93	0.18	0.97
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	10	0.93	0.18	0.97
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	10	0.91	0.24	0.97
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	0.89	0.04	0.91
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	10	0.88	0.29	0.95
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	10	0.86	0.07	0.84
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	10	0.85	0.02	0.86
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	10	0.82	0.42	1.03
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	10	0.82	0.42	1.03
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	10	0.82	0.42	1.03

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	10	0.8	0.04	0.78
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	10	0.79	0.12	0.78
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	10	0.77	0.11	0.74
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	10	0.73	0.18	0.74
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	10	0.73	0.0	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	10	0.73	0.0	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	10	0.73	0.0	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	10	0.73	0.0	0.73
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	10	0.72	0.01	0.72
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	10	0.71	0.05	0.7
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	10	0.71	0.05	0.7
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	10	0.71	0.05	0.7
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	10	0.7	0.27	0.68
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	10	0.69	0.14	0.69
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	10	0.69	0.18	0.76
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	10	0.68	0.07	0.66
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	10	0.68	0.07	0.66
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	10	0.68	0.11	0.62
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	10	0.65	0.04	0.66
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	10	0.64	0.08	0.62
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	10	0.64	0.04	0.62
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	10	0.62	0.01	0.62
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	10	0.62	0.04	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	10	0.62	0.04	0.6
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	10	0.61	0.18	0.59
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	10	0.6	0.08	0.6
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	10	0.6	0.08	0.6
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	10	0.59	0.06	0.62
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	10	0.58	0.01	0.57
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	10	0.58	0.25	0.66
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	10	0.58	0.06	0.57
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	10	0.57	0.04	0.58
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	10	0.57	0.22	0.66
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	10	0.57	0.16	0.48
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	10	0.56	0.31	0.35
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	10	0.56	0.31	0.35
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	10	0.55	0.01	0.55
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	10	0.55	0.07	0.52
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	10	0.55	0.07	0.52
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	10	0.54	0.03	0.53
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	10	0.54	0.14	0.58
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	10	0.54	0.03	0.54

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	10	0.54	0.13	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	10	0.54	0.13	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	10	0.54	0.13	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	10	0.54	0.13	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	10	0.54	0.13	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	10	0.54	0.13	0.5
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	10	0.53	0.18	0.57
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	10	0.53	0.18	0.57
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	10	0.53	0.18	0.57
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	10	0.52	0.09	0.53
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	10	0.52	0.35	0.38
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	10	0.52	0.35	0.38
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	10	0.52	0.35	0.38
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	10	0.51	0.09	0.51
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	10	0.51	0.05	0.51
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	10	0.5	0.01	0.5
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	0.48	0.07	0.5
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	0.48	0.07	0.5
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	0.48	0.07	0.5
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	10	0.48	0.07	0.5
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	10	0.48	0.07	0.5
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	10	0.48	0.07	0.5
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	10	0.48	0.01	0.48
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	10	0.47	0.04	0.46
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	10	0.46	0.16	0.38
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	10	0.46	0.14	0.47
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	10	0.46	0.21	0.6
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	10	0.46	0.16	0.42
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	10	0.46	0.16	0.42
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	10	0.45	0.01	0.46
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	10	0.45	0.02	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	10	0.45	0.02	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	10	0.45	0.02	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	10	0.45	0.02	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	10	0.45	0.02	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	10	0.45	0.02	0.44
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	10	0.44	0.15	0.4
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	10	0.44	0.04	0.42
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	10	0.44	0.05	0.44
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	10	0.44	0.05	0.44
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	10	0.44	0.05	0.44
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	10	0.44	0.05	0.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	10	0.43	0.08	0.43
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	10	0.43	0.04	0.42
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	10	0.43	0.04	0.42
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	10	0.43	0.28	0.2
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	10	0.42	0.03	0.42
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	10	0.42	0.21	0.48
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	10	0.42	0.21	0.48
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	10	0.42	0.03	0.44
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	10	0.42	0.06	0.41
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	10	0.42	0.06	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	10	0.42	0.06	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	10	0.42	0.06	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	10	0.42	0.06	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	10	0.42	0.06	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	10	0.42	0.01	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	10	0.42	0.01	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	10	0.42	0.01	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	10	0.42	0.01	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	10	0.42	0.01	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	10	0.42	0.01	0.42
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	10	0.41	0.09	0.4
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	10	0.4	0.11	0.4
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	10	0.4	0.09	0.38
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	10	0.39	0.01	0.39
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	10	0.38	0.16	0.44
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	10	0.38	0.07	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	10	0.38	0.07	0.42
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	10	0.38	0.02	0.38
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	10	0.37	0.16	0.48
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	10	0.37	0.01	0.37
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	10	0.37	0.02	0.36
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	10	0.36	0.07	0.38
(1,273)	1:18:A:SER:H	1:19:A:SER:H	10	0.36	0.07	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	10	0.35	0.09	0.34
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	10	0.35	0.09	0.34
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	10	0.35	0.09	0.34
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	10	0.35	0.0	0.35
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	10	0.35	0.01	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	10	0.34	0.0	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	10	0.34	0.0	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	10	0.34	0.0	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	10	0.34	0.0	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	10	0.34	0.0	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	10	0.34	0.0	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	10	0.34	0.0	0.34
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	10	0.34	0.09	0.35
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	10	0.34	0.01	0.34
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	10	0.33	0.04	0.34
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	10	0.33	0.1	0.29
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	10	0.33	0.02	0.32
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	10	0.33	0.08	0.36
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	10	0.33	0.13	0.32
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	10	0.33	0.13	0.32
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	10	0.32	0.14	0.26
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	10	0.31	0.0	0.31
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	10	0.31	0.03	0.3
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	10	0.31	0.02	0.31
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	10	0.3	0.1	0.32
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	10	0.3	0.03	0.29
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	10	0.29	0.05	0.3
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	10	0.29	0.05	0.3
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	10	0.29	0.05	0.3
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	10	0.29	0.0	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	10	0.29	0.0	0.29
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	10	0.28	0.03	0.28
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	10	0.27	0.02	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	10	0.27	0.0	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	10	0.27	0.0	0.27
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	10	0.26	0.0	0.26
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	10	0.25	0.03	0.24
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	10	0.25	0.13	0.2
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	10	0.25	0.13	0.2
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	10	0.25	0.13	0.2
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	10	0.25	0.02	0.26
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	10	0.25	0.02	0.26
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	10	0.25	0.02	0.26
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	10	0.25	0.0	0.25
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	10	0.25	0.01	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	10	0.24	0.0	0.24
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	10	0.24	0.07	0.24
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	10	0.24	0.05	0.23
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	10	0.24	0.07	0.22
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	10	0.24	0.07	0.22
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	10	0.24	0.07	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	10	0.23	0.01	0.23
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	10	0.23	0.07	0.2
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	10	0.23	0.05	0.22
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	10	0.23	0.0	0.23
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	10	0.22	0.03	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	10	0.22	0.03	0.21
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	10	0.22	0.0	0.22
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	10	0.21	0.01	0.22
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	10	0.21	0.01	0.22
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	10	0.21	0.01	0.22
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	10	0.2	0.02	0.21
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	10	0.2	0.0	0.2
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	10	0.2	0.02	0.19
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	10	0.19	0.04	0.2
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	10	0.18	0.02	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	10	0.18	0.02	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	10	0.18	0.0	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	10	0.18	0.01	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	10	0.18	0.01	0.18
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	10	0.18	0.0	0.18
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	10	0.17	0.01	0.17
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	10	0.17	0.01	0.17
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	10	0.17	0.01	0.16
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.16	0.04	0.19
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	10	0.15	0.0	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	10	0.15	0.0	0.15
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	10	0.15	0.01	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	10	0.15	0.01	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	10	0.15	0.01	0.16
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	10	0.14	0.0	0.14
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	10	0.14	0.01	0.15
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	10	0.13	0.0	0.13
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	10	0.12	0.0	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	10	0.12	0.01	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	10	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	10	0.12	0.01	0.12
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	9	1.06	0.02	1.06
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	9	1.06	0.02	1.06
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	9	1.06	0.02	1.06
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	9	0.9	0.23	0.98
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	9	0.84	0.06	0.8
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	9	0.76	0.06	0.72
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	9	0.76	0.06	0.72
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	9	0.76	0.06	0.72
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	9	0.72	0.1	0.68
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	9	0.66	0.02	0.66
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	9	0.66	0.02	0.66
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	9	0.64	0.04	0.66
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	9	0.62	0.03	0.63
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	9	0.62	0.07	0.63
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	9	0.59	0.09	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	9	0.59	0.09	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	9	0.59	0.09	0.53
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	9	0.55	0.05	0.55
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	9	0.52	0.12	0.57
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	9	0.52	0.02	0.52
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	9	0.51	0.19	0.56
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	9	0.49	0.13	0.49
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	9	0.49	0.08	0.5
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	9	0.49	0.08	0.5
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	9	0.45	0.18	0.47
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	9	0.43	0.15	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	9	0.42	0.12	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	9	0.42	0.12	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	9	0.42	0.12	0.43
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	9	0.39	0.02	0.39
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	9	0.31	0.06	0.35
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	9	0.3	0.16	0.22
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	9	0.29	0.1	0.26
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	9	0.28	0.09	0.25
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	9	0.28	0.09	0.25
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	9	0.26	0.07	0.21
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	9	0.26	0.07	0.21
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	9	0.26	0.07	0.21
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	9	0.25	0.03	0.25
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	9	0.25	0.03	0.25
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	9	0.2	0.06	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	9	0.2	0.06	0.18
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	9	0.2	0.06	0.18
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	9	0.2	0.08	0.22
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	9	0.19	0.12	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	9	0.19	0.12	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	9	0.19	0.12	0.16
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	9	0.17	0.03	0.17
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	9	0.17	0.03	0.17
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	9	0.16	0.03	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	9	0.16	0.03	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	9	0.16	0.03	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	9	0.16	0.03	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	9	0.16	0.03	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	9	0.16	0.03	0.16
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	9	0.16	0.02	0.16
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	9	0.16	0.02	0.16
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	9	0.16	0.03	0.17
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	9	0.15	0.01	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	9	0.15	0.01	0.16
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	9	0.12	0.04	0.11
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	9	0.12	0.04	0.11
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	9	0.12	0.04	0.11
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	9	0.1	0.0	0.1
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	8	1.25	0.11	1.28
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	8	0.67	0.05	0.66
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	8	0.59	0.05	0.58
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	8	0.55	0.27	0.54
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	8	0.45	0.14	0.48
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	8	0.45	0.14	0.48
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	8	0.42	0.15	0.43
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	8	0.4	0.09	0.46
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	8	0.37	0.21	0.4
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	8	0.37	0.21	0.4
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	8	0.37	0.21	0.4
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	8	0.35	0.17	0.42
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	8	0.31	0.04	0.32
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	8	0.3	0.14	0.31
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	8	0.3	0.14	0.31
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	8	0.3	0.14	0.31
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	8	0.24	0.07	0.24
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	8	0.24	0.15	0.18
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	8	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	8	0.15	0.03	0.16
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	8	0.15	0.03	0.16
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	8	0.15	0.01	0.15
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	8	0.14	0.02	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	8	0.14	0.02	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	8	0.14	0.02	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	8	0.14	0.02	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	8	0.14	0.02	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	8	0.14	0.02	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	8	0.14	0.02	0.14
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	8	0.13	0.03	0.12
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.74	0.05	0.72
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	7	0.74	0.05	0.72
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	7	0.73	0.02	0.72
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	7	0.73	0.02	0.72
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	7	0.72	0.29	0.69
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	7	0.72	0.29	0.69
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	7	0.65	0.25	0.78
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	7	0.65	0.25	0.78
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	7	0.6	0.05	0.58
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	7	0.51	0.2	0.58
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	7	0.49	0.02	0.5
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	7	0.49	0.02	0.5
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	7	0.49	0.02	0.5
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	7	0.28	0.1	0.3
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	7	0.23	0.11	0.22
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	7	0.2	0.08	0.19
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	7	0.18	0.05	0.21
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	7	0.17	0.05	0.15
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	7	0.12	0.01	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	7	0.12	0.01	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	7	0.12	0.01	0.12
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.11	0.01	0.11
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	6	0.9	0.22	1.02
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	6	0.9	0.22	1.02
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	6	0.7	0.21	0.72
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	6	0.7	0.21	0.72
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	6	0.7	0.21	0.72
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	6	0.62	0.32	0.8
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	6	0.59	0.03	0.59
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	6	0.57	0.18	0.66
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	6	0.57	0.18	0.66

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	6	0.53	0.19	0.62
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	6	0.48	0.16	0.42
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	6	0.48	0.16	0.42
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	6	0.48	0.16	0.42
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	6	0.47	0.01	0.47
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	6	0.43	0.05	0.43
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	6	0.42	0.08	0.46
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	6	0.36	0.07	0.36
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	6	0.32	0.06	0.3
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	6	0.27	0.12	0.33
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	6	0.23	0.07	0.22
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	6	0.2	0.08	0.18
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	6	0.19	0.01	0.19
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	6	0.18	0.06	0.16
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	6	0.16	0.03	0.17
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	6	0.12	0.02	0.12
(1,625)	1:10:A:GLN:HE21	1:14:A:ASP:HB3	5	0.54	0.31	0.39
(1,648)	1:15:A:GLY:HA2	1:19:A:SER:HB2	5	0.31	0.07	0.32
(1,563)	1:7:A:LEU:HA	1:10:A:GLN:HB3	5	0.28	0.14	0.23
(1,55)	1:21:A:ARG:H	1:21:A:ARG:HD2	5	0.28	0.07	0.28
(1,250)	1:11:A:TRP:HE3	1:23:A:PRO:HA	5	0.27	0.01	0.26
(1,565)	1:4:A:CYS:HA	1:7:A:LEU:HG	5	0.27	0.12	0.25
(1,615)	1:16:A:GLY:H	1:19:A:SER:HB3	5	0.24	0.13	0.17
(1,550)	1:11:A:TRP:HB3	1:24:A:PRO:HD3	5	0.23	0.05	0.22
(1,641)	1:8:A:TYR:HD1	1:25:A:CYS:HB3	5	0.22	0.16	0.15
(1,641)	1:8:A:TYR:HD2	1:25:A:CYS:HB3	5	0.22	0.16	0.15
(1,61)	1:11:A:TRP:HB2	1:12:A:LEU:H	5	0.21	0.01	0.21
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	5	0.21	0.07	0.22
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE3	5	0.21	0.07	0.22
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	5	0.21	0.07	0.22
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	5	0.21	0.07	0.22
(1,552)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	5	0.21	0.15	0.15
(1,98)	1:11:A:TRP:HE1	1:19:A:SER:HG	5	0.19	0.02	0.2
(1,284)	1:2:A:GLU:HA	1:3:A:GLU:H	5	0.18	0.03	0.19
(1,633)	1:11:A:TRP:HZ3	1:23:A:PRO:HB2	5	0.16	0.03	0.17
(1,112)	1:7:A:LEU:H	1:7:A:LEU:HB3	5	0.1	0.0	0.1
(1,296)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	4	0.7	0.06	0.68
(1,231)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	4	0.66	0.04	0.65
(1,650)	1:15:A:GLY:HA3	1:19:A:SER:HA	4	0.6	0.02	0.6
(1,223)	1:8:A:TYR:HE1	1:23:A:PRO:HB2	4	0.54	0.03	0.55
(1,223)	1:8:A:TYR:HE2	1:23:A:PRO:HB2	4	0.54	0.03	0.55
(1,238)	1:8:A:TYR:HE1	1:23:A:PRO:HG3	4	0.42	0.11	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,238)	1:8:A:TYR:HE2	1:23:A:PRO:HG3	4	0.42	0.11	0.44
(1,225)	1:23:A:PRO:HB2	1:25:A:CYS:H	4	0.31	0.08	0.33
(1,623)	1:2:A:GLU:HB3	1:6:A:ARG:H	4	0.26	0.06	0.25
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD11	4	0.22	0.02	0.22
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD12	4	0.22	0.02	0.22
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD13	4	0.22	0.02	0.22
(1,293)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	4	0.22	0.02	0.22
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG2	4	0.2	0.15	0.12
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG3	4	0.2	0.15	0.12
(1,634)	1:11:A:TRP:HE3	1:23:A:PRO:HB2	4	0.19	0.03	0.2
(1,94)	1:20:A:GLY:HA3	1:21:A:ARG:H	4	0.15	0.02	0.16
(1,695)	1:5:A:VAL:HG11	1:9:A:ILE:HB	4	0.15	0.03	0.16
(1,695)	1:5:A:VAL:HG12	1:9:A:ILE:HB	4	0.15	0.03	0.16
(1,695)	1:5:A:VAL:HG13	1:9:A:ILE:HB	4	0.15	0.03	0.16
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	4	0.14	0.02	0.14
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	4	0.14	0.02	0.14
(1,453)	1:19:A:SER:HA	1:19:A:SER:HB2	4	0.13	0.01	0.14
(1,255)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	4	0.13	0.02	0.12
(1,68)	1:18:A:SER:H	1:18:A:SER:HB3	3	0.74	0.08	0.73
(1,451)	1:18:A:SER:HA	1:18:A:SER:HB2	3	0.53	0.08	0.58
(1,464)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	3	0.36	0.17	0.46
(1,664)	1:21:A:ARG:HB3	1:22:A:PRO:HD2	3	0.33	0.15	0.39
(1,352)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	3	0.31	0.22	0.21
(1,424)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	3	0.3	0.07	0.31
(1,424)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	3	0.3	0.07	0.31
(1,76)	1:25:A:CYS:H	1:25:A:CYS:HB3	3	0.27	0.06	0.28
(1,171)	1:11:A:TRP:HH2	1:23:A:PRO:HD3	3	0.27	0.01	0.26
(1,263)	1:18:A:SER:HA	1:20:A:GLY:H	3	0.18	0.06	0.15
(1,646)	1:15:A:GLY:HA2	1:18:A:SER:HB3	3	0.17	0.08	0.14
(1,123)	1:24:A:PRO:HG2	1:25:A:CYS:H	3	0.14	0.02	0.13
(1,290)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	2	1.24	0.14	1.24
(1,594)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	2	0.93	0.07	0.93
(1,594)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	2	0.93	0.07	0.93
(1,594)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	2	0.93	0.07	0.93
(1,594)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	2	0.93	0.07	0.93
(1,594)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	2	0.93	0.07	0.93
(1,594)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	2	0.93	0.07	0.93
(1,248)	1:8:A:TYR:HD1	1:23:A:PRO:HA	2	0.48	0.28	0.48
(1,248)	1:8:A:TYR:HD2	1:23:A:PRO:HA	2	0.48	0.28	0.48
(1,657)	1:4:A:CYS:HB2	1:25:A:CYS:HB3	2	0.34	0.11	0.34
(1,56)	1:21:A:ARG:H	1:21:A:ARG:HD3	2	0.28	0.0	0.28
(1,479)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	2	0.23	0.04	0.23

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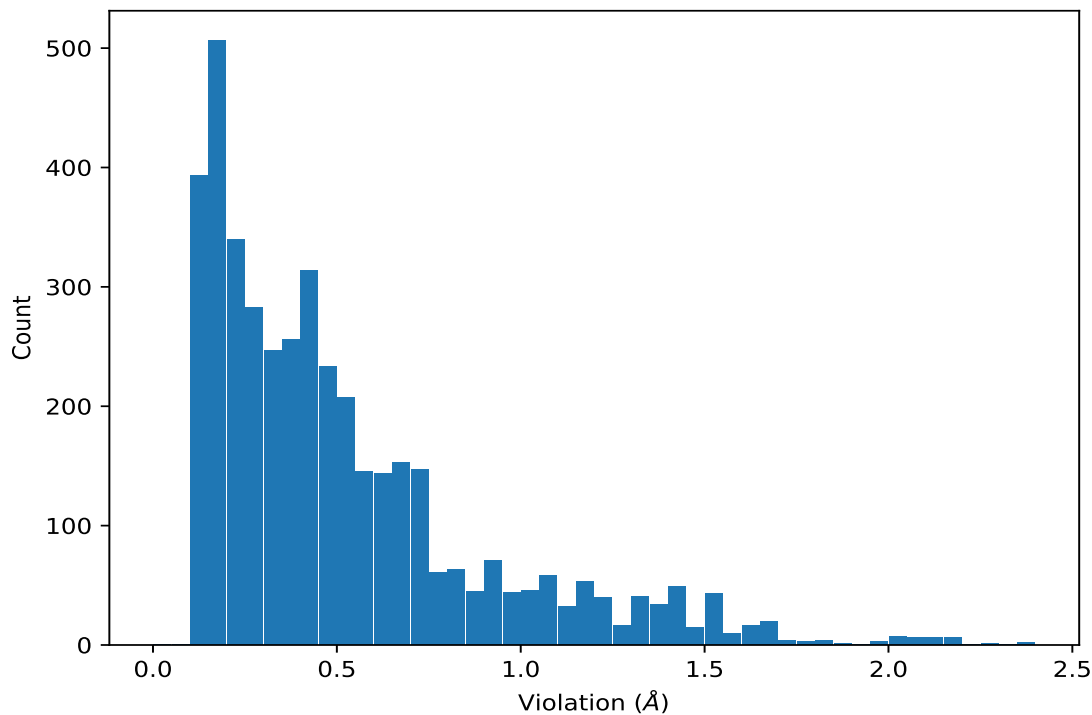
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,647)	1:15:A:GLY:HA2	1:18:A:SER:HB2	2	0.2	0.02	0.2
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG21	2	0.17	0.04	0.17
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG22	2	0.17	0.04	0.17
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG23	2	0.17	0.04	0.17
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG21	2	0.17	0.04	0.17
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG22	2	0.17	0.04	0.17
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG23	2	0.17	0.04	0.17
(1,642)	1:8:A:TYR:HD1	1:25:A:CYS:HB2	2	0.16	0.02	0.16
(1,642)	1:8:A:TYR:HD2	1:25:A:CYS:HB2	2	0.16	0.02	0.16
(1,515)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	2	0.14	0.0	0.14
(1,694)	1:9:A:ILE:HG21	1:12:A:LEU:HB3	2	0.13	0.02	0.13
(1,694)	1:9:A:ILE:HG22	1:12:A:LEU:HB3	2	0.13	0.02	0.13
(1,694)	1:9:A:ILE:HG23	1:12:A:LEU:HB3	2	0.13	0.02	0.13

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)
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	7	2.39
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	4	2.35
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	2	2.25
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	8	2.19
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	3	2.16
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	10	2.15
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	6	2.15
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	6	2.15
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	6	2.15
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	5	2.11
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	5	2.11
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	5	2.11
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	1	2.1
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	1	2.1
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	1	2.1
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	2	2.07
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	2	2.07
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	2	2.07
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	6	2.06
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	6	2.06
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	6	2.06
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	5	2.03
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	5	2.03
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	5	2.03
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	1	2.02
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	1	2.02
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	1	2.02
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	9	2.0
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	2	1.98
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	2	1.98
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	2	1.98
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	10	1.85
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	8	1.84
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	1	1.82
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	6	1.82
(1,727)	1:22:A:PRO:HB3	1:23:A:PRO:HG3	5	1.8
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	2	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	3	1.77
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	6	1.75
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	4	1.74
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	3	1.74
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	3	1.74
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	3	1.74
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	4	1.69
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	9	1.68
(1,541)	1:12:A:LEU:HD11	1:17:A:PRO:HG2	3	1.68
(1,541)	1:12:A:LEU:HD12	1:17:A:PRO:HG2	3	1.68
(1,541)	1:12:A:LEU:HD13	1:17:A:PRO:HG2	3	1.68
(1,541)	1:12:A:LEU:HD11	1:17:A:PRO:HG3	3	1.68
(1,541)	1:12:A:LEU:HD12	1:17:A:PRO:HG3	3	1.68
(1,541)	1:12:A:LEU:HD13	1:17:A:PRO:HG3	3	1.68
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	5	1.68
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	6	1.67
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	1	1.66
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	7	1.66
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	8	1.66
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	10	1.66
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	1	1.65
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	1	1.65
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	1	1.65
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	9	1.65
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	9	1.65
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	9	1.65
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	4	1.64
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	4	1.64
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	4	1.64
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	3	1.64
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	5	1.63
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	5	1.63
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	5	1.63
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	1	1.63
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	2	1.62
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	2	1.62
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	2	1.62
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	5	1.62
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	1	1.62
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	9	1.61
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	4	1.6
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	7	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	7	1.59
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	7	1.59
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	7	1.59
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	10	1.59
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	10	1.59
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	10	1.59
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	8	1.57
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	8	1.57
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	8	1.57
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	2	1.55
(1,696)	1:5:A:VAL:HG21	1:9:A:ILE:HB	6	1.54
(1,696)	1:5:A:VAL:HG22	1:9:A:ILE:HB	6	1.54
(1,696)	1:5:A:VAL:HG23	1:9:A:ILE:HB	6	1.54
(1,673)	1:9:A:ILE:HA	1:12:A:LEU:HD11	3	1.54
(1,673)	1:9:A:ILE:HA	1:12:A:LEU:HD12	3	1.54
(1,673)	1:9:A:ILE:HA	1:12:A:LEU:HD13	3	1.54
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	9	1.53
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	9	1.53
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	9	1.53
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	1	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	1	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	1	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	7	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	7	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	7	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	9	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	9	1.52
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	9	1.52
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	7	1.51
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	7	1.51
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	7	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	2	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	2	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	2	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	4	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	4	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	4	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	5	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	5	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	5	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	6	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	6	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	6	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	8	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	8	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	8	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	10	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	10	1.51
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	10	1.51
(1,674)	1:9:A:ILE:HA	1:12:A:LEU:HD11	3	1.5
(1,674)	1:9:A:ILE:HA	1:12:A:LEU:HD12	3	1.5
(1,674)	1:9:A:ILE:HA	1:12:A:LEU:HD13	3	1.5
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	6	1.5
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	7	1.49
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	5	1.47
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	7	1.47
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	6	1.46
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	6	1.46
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	6	1.46
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	4	1.46
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	4	1.46
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	4	1.46
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	3	1.46
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	3	1.46
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	3	1.46
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	9	1.45
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	2	1.45
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	3	1.45
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	3	1.44
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	3	1.44
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	3	1.44
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	7	1.44
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	7	1.44
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	7	1.44
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	7	1.44
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	7	1.44
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	7	1.44
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	9	1.44
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	9	1.44
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	9	1.44
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	1	1.43
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	1	1.43
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	1	1.43
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	5	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	5	1.43
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	5	1.43
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	1	1.43
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	5	1.42
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	2	1.42
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	2	1.42
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	2	1.42
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	8	1.42
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	8	1.42
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	8	1.42
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	8	1.42
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	8	1.42
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	8	1.42
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	10	1.42
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	10	1.42
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	10	1.42
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	7	1.42
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	7	1.42
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	7	1.42
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	9	1.41
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	9	1.41
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	9	1.41
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	2	1.4
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	9	1.4
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	9	1.4
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	9	1.4
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	8	1.4
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	8	1.4
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	8	1.4
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	10	1.4
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	10	1.4
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	10	1.4
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	7	1.4
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	10	1.39
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	10	1.39
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	10	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	1	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	1	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	1	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	2	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	2	1.39
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	2	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	9	1.39
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	9	1.39
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	7	1.39
(1,713)	1:5:A:VAL:HG21	1:9:A:ILE:HG12	4	1.38
(1,713)	1:5:A:VAL:HG22	1:9:A:ILE:HG12	4	1.38
(1,713)	1:5:A:VAL:HG23	1:9:A:ILE:HG12	4	1.38
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	6	1.38
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	6	1.38
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	6	1.38
(1,572)	1:4:A:CYS:HB2	1:25:A:CYS:HB2	3	1.38
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	2	1.38
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	4	1.37
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	4	1.37
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	4	1.37
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	4	1.37
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	4	1.37
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	4	1.37
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	2	1.37
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	2	1.37
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	4	1.37
(1,290)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	8	1.37
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	5	1.35
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	5	1.35
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	4	1.35
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	10	1.35
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	10	1.34
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	10	1.34
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	10	1.34
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	3	1.34
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	3	1.34
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	7	1.34
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	8	1.33
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	8	1.33
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	8	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	1	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	1	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	6	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	6	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	9	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	9	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	10	1.33
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	10	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	8	1.32
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	3	1.32
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	3	1.32
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	3	1.32
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	8	1.32
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	8	1.32
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	3	1.32
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	3	1.32
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	3	1.32
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	3	1.32
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	3	1.32
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	3	1.32
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	8	1.32
(1,549)	1:12:A:LEU:HD11	1:16:A:GLY:HA3	3	1.31
(1,549)	1:12:A:LEU:HD12	1:16:A:GLY:HA3	3	1.31
(1,549)	1:12:A:LEU:HD13	1:16:A:GLY:HA3	3	1.31
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	8	1.31
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	10	1.3
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	4	1.3
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	4	1.3
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE2	7	1.3
(1,547)	1:13:A:LYS:HD2	1:13:A:LYS:HE3	7	1.3
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	4	1.3
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	5	1.3
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	10	1.29
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	5	1.29
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	9	1.29
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	9	1.29
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG11	5	1.28
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG12	5	1.28
(1,687)	1:2:A:GLU:HG3	1:5:A:VAL:HG13	5	1.28
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	10	1.28
(1,49)	1:10:A:GLN:HB3	1:10:A:GLN:HE21	4	1.28
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	6	1.27
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	3	1.26
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	5	1.26
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	9	1.26
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	1	1.26
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	3	1.25
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	9	1.25
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	2	1.24
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	8	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	5	1.24
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	6	1.24
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	4	1.23
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	7	1.23
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	4	1.23
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	4	1.23
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	4	1.23
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	4	1.23
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	4	1.23
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	6	1.22
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	1	1.22
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	9	1.22
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	10	1.22
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	8	1.22
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	2	1.22
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	2	1.22
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	2	1.22
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	2	1.22
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	5	1.22
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	10	1.22
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	7	1.22
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	4	1.22
(1,726)	1:22:A:PRO:HB2	1:23:A:PRO:HG2	1	1.21
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	5	1.21
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	2	1.21
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	1	1.21
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	3	1.21
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	6	1.21
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	8	1.21
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	9	1.21
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	6	1.2
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	9	1.2
(1,645)	1:19:A:SER:HB2	1:19:A:SER:HG	6	1.2
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	7	1.2
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	7	1.2
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	7	1.2
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	7	1.2
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	4	1.2
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	2	1.19
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	4	1.19
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	5	1.19
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	7	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,473)	1:22:A:PRO:HA	1:22:A:PRO:HD3	2	1.19
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	1	1.18
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	3	1.18
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	8	1.18
(1,669)	1:9:A:ILE:HA	1:12:A:LEU:HB2	10	1.18
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	2	1.18
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	7	1.18
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	2	1.18
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	2	1.18
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	10	1.18
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	10	1.18
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	7	1.18
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	3	1.17
(1,556)	1:11:A:TRP:HB2	1:24:A:PRO:HG2	3	1.17
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	1	1.17
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	1	1.17
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	5	1.17
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	5	1.17
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	6	1.17
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	6	1.17
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	8	1.17
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	8	1.17
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	9	1.17
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	6	1.16
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	8	1.16
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	10	1.16
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	1	1.16
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	3	1.16
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	3	1.16
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	3	1.16
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	5	1.16
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	5	1.16
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	5	1.16
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	8	1.16
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	4	1.16
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	4	1.16
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	7	1.16
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	7	1.16
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	9	1.16
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	9	1.16
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	7	1.16
(1,568)	1:8:A:TYR:HA	1:24:A:PRO:HD2	9	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	10	1.15
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	8	1.15
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	8	1.15
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	8	1.15
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	10	1.15
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	10	1.15
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	10	1.15
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	2	1.14
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	2	1.14
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	2	1.14
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	6	1.14
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	4	1.14
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	4	1.14
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	1	1.13
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	3	1.13
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	7	1.13
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	8	1.13
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	9	1.13
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	6	1.13
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	1	1.13
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	1	1.12
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	1	1.12
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	1	1.12
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	4	1.12
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	4	1.12
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	2	1.12
(1,561)	1:8:A:TYR:HA	1:24:A:PRO:HG2	5	1.12
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	1	1.12
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	2	1.11
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	6	1.11
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	10	1.11
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	1	1.1
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	1	1.1
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	1	1.1
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	1	1.1
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	3	1.1
(1,290)	1:11:A:TRP:HD1	1:21:A:ARG:HD3	10	1.1
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	8	1.1
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	3	1.1
(1,291)	1:11:A:TRP:HD1	1:21:A:ARG:HD2	1	1.09
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	4	1.09
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	4	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	4	1.09
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	3	1.08
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	7	1.08
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	3	1.08
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	3	1.08
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	3	1.08
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	3	1.08
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	5	1.08
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	7	1.08
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	7	1.08
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	7	1.08
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	6	1.08
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	4	1.07
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	4	1.07
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	4	1.07
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	4	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	4	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	4	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	4	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	8	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	8	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	8	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	10	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	10	1.07
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	10	1.07
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	10	1.07
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	9	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	2	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	2	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	2	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	10	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	10	1.06
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	10	1.06
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	9	1.06
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	9	1.06
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	9	1.06
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	2	1.06
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	8	1.06
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	1	1.05
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	1	1.05
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	1	1.05
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	1	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	1	1.05
(1,504)	1:11:A:TRP:HD1	1:23:A:PRO:HD3	2	1.05
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	2	1.05
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	2	1.05
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	2	1.05
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD21	3	1.05
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD22	3	1.05
(1,216)	1:11:A:TRP:HE3	1:12:A:LEU:HD23	3	1.05
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	7	1.05
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	7	1.05
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	7	1.05
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	5	1.05
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	10	1.05
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	7	1.04
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	7	1.04
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	8	1.04
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	8	1.04
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	8	1.04
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	1	1.04
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	1	1.04
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	1	1.04
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	6	1.04
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	6	1.04
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	6	1.04
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	3	1.04
(1,50)	1:2:A:GLU:HG2	1:6:A:ARG:H	2	1.04
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	6	1.03
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	6	1.03
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	6	1.03
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	10	1.03
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	10	1.03
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	10	1.03
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD21	5	1.03
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD22	5	1.03
(1,300)	1:12:A:LEU:H	1:12:A:LEU:HD23	5	1.03
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	2	1.03
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	1	1.02
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	4	1.02
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	4	1.02
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	4	1.02
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	2	1.02
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	5	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	9	1.01
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	9	1.01
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	9	1.01
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	8	1.0
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	5	1.0
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	5	1.0
(1,594)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	3	1.0
(1,594)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	3	1.0
(1,594)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	3	1.0
(1,594)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	3	1.0
(1,594)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	3	1.0
(1,594)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	3	1.0
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	8	1.0
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	8	1.0
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	8	1.0
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	4	1.0
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	4	1.0
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	2	0.99
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	3	0.99
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	10	0.99
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	10	0.99
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	3	0.98
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	5	0.98
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	10	0.98
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	9	0.98
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	9	0.98
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	9	0.98
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	6	0.98
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	6	0.98
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	6	0.97
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	10	0.97
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	10	0.97
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	2	0.97
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	2	0.97
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	7	0.97
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	7	0.97
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	9	0.97
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	9	0.97
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	8	0.96
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	8	0.96
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	8	0.96
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	8	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	7	0.96
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	7	0.96
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	7	0.96
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	6	0.96
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	1	0.96
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	1	0.96
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	9	0.96
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	4	0.95
(1,700)	1:9:A:ILE:HG13	1:12:A:LEU:HD11	3	0.95
(1,700)	1:9:A:ILE:HG13	1:12:A:LEU:HD12	3	0.95
(1,700)	1:9:A:ILE:HG13	1:12:A:LEU:HD13	3	0.95
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	9	0.95
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	9	0.95
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	9	0.95
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	9	0.95
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	1	0.95
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	5	0.95
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	5	0.95
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	10	0.95
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	2	0.94
(1,625)	1:10:A:GLN:HE21	1:14:A:ASP:HB3	1	0.94
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	4	0.94
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	6	0.94
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	6	0.94
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	6	0.94
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	6	0.94
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	10	0.94
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	10	0.94
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	10	0.94
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	10	0.94
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	9	0.94
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	2	0.94
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	2	0.94
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	3	0.94
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	3	0.94
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	8	0.94
(1,207)	1:11:A:TRP:HH2	1:12:A:LEU:HD11	3	0.94
(1,207)	1:11:A:TRP:HH2	1:12:A:LEU:HD12	3	0.94
(1,207)	1:11:A:TRP:HH2	1:12:A:LEU:HD13	3	0.94
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	3	0.94
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	3	0.94
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	3	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	3	0.93
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	3	0.93
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	3	0.93
(1,587)	1:8:A:TYR:HB2	1:12:A:LEU:HD21	3	0.93
(1,587)	1:8:A:TYR:HB2	1:12:A:LEU:HD22	3	0.93
(1,587)	1:8:A:TYR:HB2	1:12:A:LEU:HD23	3	0.93
(1,587)	1:8:A:TYR:HB3	1:12:A:LEU:HD21	3	0.93
(1,587)	1:8:A:TYR:HB3	1:12:A:LEU:HD22	3	0.93
(1,587)	1:8:A:TYR:HB3	1:12:A:LEU:HD23	3	0.93
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	8	0.93
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	8	0.93
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	4	0.93
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	8	0.93
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	10	0.93
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	7	0.92
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	7	0.92
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	7	0.92
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	5	0.92
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	8	0.92
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	8	0.92
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	2	0.92
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	3	0.92
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	3	0.92
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	3	0.92
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	3	0.92
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	3	0.92
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	3	0.92
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	7	0.92
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	5	0.91
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	3	0.91
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	9	0.91
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	9	0.9
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	4	0.9
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	4	0.9
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	4	0.9
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	6	0.9
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	6	0.9
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	5	0.9
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	6	0.9
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG2	5	0.9
(1,548)	1:13:A:LYS:HE2	1:13:A:LYS:HG3	5	0.9
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG2	5	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:13:A:LYS:HE3	1:13:A:LYS:HG3	5	0.9
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	6	0.9
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	1	0.9
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	4	0.9
(1,189)	1:8:A:TYR:HD1	1:24:A:PRO:HD2	5	0.9
(1,189)	1:8:A:TYR:HD2	1:24:A:PRO:HD2	5	0.9
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	9	0.89
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	9	0.89
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	9	0.89
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	1	0.89
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	7	0.88
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	3	0.88
(1,702)	1:9:A:ILE:HG13	1:12:A:LEU:HD21	3	0.88
(1,702)	1:9:A:ILE:HG13	1:12:A:LEU:HD22	3	0.88
(1,702)	1:9:A:ILE:HG13	1:12:A:LEU:HD23	3	0.88
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	5	0.88
(1,602)	1:8:A:TYR:H	1:10:A:GLN:H	3	0.88
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	1	0.88
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	1	0.88
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	10	0.88
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	1	0.88
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	1	0.88
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	1	0.88
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	6	0.88
(1,625)	1:10:A:GLN:HE21	1:14:A:ASP:HB3	2	0.87
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	1	0.87
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	4	0.87
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	7	0.87
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	3	0.87
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	1	0.87
(1,594)	1:9:A:ILE:HG21	1:13:A:LYS:HE2	1	0.86
(1,594)	1:9:A:ILE:HG22	1:13:A:LYS:HE2	1	0.86
(1,594)	1:9:A:ILE:HG23	1:13:A:LYS:HE2	1	0.86
(1,594)	1:9:A:ILE:HG21	1:13:A:LYS:HE3	1	0.86
(1,594)	1:9:A:ILE:HG22	1:13:A:LYS:HE3	1	0.86
(1,594)	1:9:A:ILE:HG23	1:13:A:LYS:HE3	1	0.86
(1,557)	1:9:A:ILE:HA	1:12:A:LEU:HG	2	0.86
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	6	0.86
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	8	0.86
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	10	0.86
(1,346)	1:6:A:ARG:HA	1:6:A:ARG:HD3	9	0.86
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	1	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,639)	1:10:A:GLN:HE22	1:14:A:ASP:HB3	3	0.85
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	10	0.85
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	2	0.85
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	5	0.85
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	6	0.85
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	6	0.85
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	5	0.85
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	3	0.85
(1,68)	1:18:A:SER:H	1:18:A:SER:HB3	2	0.85
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	3	0.84
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	3	0.84
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	3	0.84
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	1	0.84
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	1	0.84
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	1	0.84
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	3	0.84
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	3	0.84
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	4	0.84
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	7	0.84
(1,317)	1:12:A:LEU:HD11	1:16:A:GLY:H	3	0.84
(1,317)	1:12:A:LEU:HD12	1:16:A:GLY:H	3	0.84
(1,317)	1:12:A:LEU:HD13	1:16:A:GLY:H	3	0.84
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	7	0.84
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	6	0.84
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	1	0.84
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	2	0.84
(1,176)	1:11:A:TRP:HB2	1:11:A:TRP:HZ3	6	0.84
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	2	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	2	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	2	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	5	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	5	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	5	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	6	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	6	0.83
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	6	0.83
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	9	0.83
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	10	0.83
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	8	0.83
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	9	0.83
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	10	0.83
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	5	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	1	0.83
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	5	0.83
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	5	0.83
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	5	0.83
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	9	0.83
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	9	0.83
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	8	0.82
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	2	0.82
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	1	0.82
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	8	0.82
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	7	0.82
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	8	0.81
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	2	0.81
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	2	0.81
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	3	0.81
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	3	0.81
(1,441)	1:17:A:PRO:HB2	1:17:A:PRO:HD2	9	0.81
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	6	0.81
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	6	0.81
(1,109)	1:9:A:ILE:HB	1:11:A:TRP:H	3	0.81
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	10	0.8
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	10	0.8
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	10	0.8
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	2	0.8
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	3	0.8
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	7	0.8
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	10	0.8
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	4	0.8
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	5	0.8
(1,296)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	2	0.8
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	2	0.79
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	9	0.79
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	2	0.79
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	9	0.79
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	5	0.79
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	7	0.79
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	2	0.79
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	1	0.78
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	6	0.78
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	8	0.78
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	9	0.78
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	3	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	2	0.78
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	2	0.78
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	2	0.77
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	3	0.77
(1,517)	1:23:A:PRO:HB3	1:23:A:PRO:HG3	10	0.77
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	2	0.77
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	3	0.77
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	4	0.77
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	4	0.77
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	4	0.77
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	2	0.76
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	4	0.76
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	9	0.76
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	8	0.76
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	8	0.76
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	8	0.76
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	6	0.76
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	6	0.76
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	4	0.76
(1,649)	1:15:A:GLY:HA2	1:19:A:SER:HB3	7	0.76
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	7	0.76
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD11	7	0.76
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD12	7	0.76
(1,543)	1:2:A:GLU:HG2	1:9:A:ILE:HD13	7	0.76
(1,355)	1:6:A:ARG:HB2	1:6:A:ARG:HD2	6	0.76
(1,248)	1:8:A:TYR:HD1	1:23:A:PRO:HA	3	0.76
(1,248)	1:8:A:TYR:HD2	1:23:A:PRO:HA	3	0.76
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	3	0.75
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	3	0.75
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	3	0.75
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	4	0.75
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	4	0.75
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	4	0.75
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	4	0.75
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	4	0.75
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	8	0.75
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	8	0.75
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	3	0.75
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	10	0.75
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	8	0.75
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	10	0.75
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	5	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	5	0.75
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	5	0.75
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	6	0.75
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	6	0.75
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	6	0.75
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	10	0.75
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	2	0.75
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	1	0.74
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	8	0.74
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	10	0.74
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	8	0.74
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	8	0.74
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	8	0.74
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	6	0.74
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	6	0.74
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	6	0.74
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	1	0.74
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	1	0.74
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	3	0.74
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	3	0.74
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	4	0.74
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	4	0.74
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	9	0.74
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	4	0.74
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	10	0.73
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	7	0.73
(1,527)	1:24:A:PRO:HB2	1:24:A:PRO:HD2	3	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	2	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	2	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	2	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	2	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	3	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	3	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	3	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	3	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	4	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	4	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	4	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	4	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	6	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	6	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	6	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	6	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	8	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	8	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	8	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	8	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	9	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	9	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	9	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	9	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	10	0.73
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	10	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	10	0.73
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	10	0.73
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	1	0.73
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	1	0.73
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	1	0.73
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	2	0.73
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	5	0.73
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	6	0.73
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	10	0.73
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	10	0.73
(1,68)	1:18:A:SER:H	1:18:A:SER:HB3	6	0.73
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	7	0.73
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	7	0.73
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	7	0.72
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	7	0.72
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	7	0.72
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	7	0.72
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	7	0.72
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	7	0.72
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	7	0.72
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	7	0.72
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	7	0.72
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	7	0.72
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	10	0.72
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	10	0.72
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	5	0.72
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	7	0.72
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	4	0.72
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	7	0.72
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	8	0.72
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	1	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	1	0.72
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	1	0.72
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	1	0.72
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	5	0.72
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	5	0.72
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	5	0.72
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	5	0.72
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG2	7	0.72
(1,427)	1:13:A:LYS:HB2	1:13:A:LYS:HG3	7	0.72
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG2	7	0.72
(1,427)	1:13:A:LYS:HB3	1:13:A:LYS:HG3	7	0.72
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD21	2	0.72
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD22	2	0.72
(1,407)	1:12:A:LEU:HA	1:12:A:LEU:HD23	2	0.72
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	1	0.72
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	7	0.72
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	9	0.72
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	10	0.72
(1,231)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	3	0.72
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	6	0.72
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	5	0.72
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	5	0.72
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	7	0.71
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	10	0.71
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	10	0.71
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	10	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	8	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	8	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	8	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	9	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	9	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	9	0.71
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	6	0.71
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	6	0.71
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	6	0.71
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	7	0.71
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	7	0.71
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	9	0.71
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	9	0.71
(1,608)	1:8:A:TYR:HE1	1:11:A:TRP:HE3	3	0.71
(1,608)	1:8:A:TYR:HE2	1:11:A:TRP:HE3	3	0.71
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	3	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	9	0.71
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	3	0.71
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	8	0.71
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	3	0.71
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	4	0.71
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	1	0.71
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	1	0.71
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	8	0.71
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	8	0.71
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	10	0.7
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	10	0.7
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	10	0.7
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	5	0.7
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	5	0.7
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	5	0.7
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	6	0.7
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	8	0.7
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	8	0.7
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	10	0.7
(1,322)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	4	0.7
(1,285)	1:10:A:GLN:HG3	1:11:A:TRP:H	9	0.7
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	6	0.7
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	6	0.7
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	6	0.7
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	6	0.7
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	10	0.7
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	10	0.7
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	6	0.7
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	5	0.69
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	4	0.69
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	4	0.69
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	4	0.69
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	9	0.69
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	9	0.69
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	9	0.69
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD21	4	0.69
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD22	4	0.69
(1,672)	1:9:A:ILE:HA	1:12:A:LEU:HD23	4	0.69
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB2	5	0.69
(1,663)	1:10:A:GLN:HA	1:13:A:LYS:HB3	5	0.69
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	3	0.69
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	1	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	8	0.69
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	7	0.69
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	7	0.69
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	4	0.69
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	8	0.69
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	8	0.69
(1,296)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	8	0.69
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	1	0.69
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	5	0.69
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	5	0.69
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	1	0.69
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	5	0.69
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	9	0.69
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	8	0.69
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG2	6	0.69
(1,22)	1:13:A:LYS:H	1:13:A:LYS:HG3	6	0.69
(1,722)	1:9:A:ILE:HG12	1:12:A:LEU:HB3	6	0.68
(1,712)	1:9:A:ILE:HG12	1:12:A:LEU:HD21	3	0.68
(1,712)	1:9:A:ILE:HG12	1:12:A:LEU:HD22	3	0.68
(1,712)	1:9:A:ILE:HG12	1:12:A:LEU:HD23	3	0.68
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	2	0.68
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	2	0.68
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	2	0.68
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	1	0.68
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	1	0.68
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	1	0.68
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	9	0.68
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	10	0.68
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	4	0.68
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	2	0.68
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	5	0.68
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	5	0.68
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	6	0.68
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	6	0.68
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	2	0.68
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	7	0.68
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	4	0.68
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	7	0.68
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	8	0.68
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	10	0.68
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	6	0.68
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	6	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	10	0.68
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	10	0.68
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	8	0.68
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	5	0.68
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	3	0.68
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	7	0.68
(1,729)	1:2:A:GLU:HG2	1:6:A:ARG:HG3	9	0.67
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	9	0.67
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	9	0.67
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	9	0.67
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	5	0.67
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	5	0.67
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	5	0.67
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	9	0.67
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	9	0.67
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	1	0.67
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	8	0.67
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	6	0.67
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	5	0.67
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	5	0.67
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	4	0.67
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	4	0.67
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	9	0.67
(1,296)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	3	0.67
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	5	0.67
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	5	0.67
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	8	0.67
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	8	0.67
(1,257)	1:24:A:PRO:HD2	1:25:A:CYS:H	3	0.67
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	10	0.67
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	9	0.67
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	8	0.67
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	2	0.67
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	5	0.67
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	5	0.66
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	1	0.66
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	1	0.66
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	1	0.66
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	8	0.66
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	1	0.66
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	3	0.66
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	3	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	3	0.66
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	7	0.66
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	7	0.66
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	1	0.66
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	1	0.66
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	5	0.66
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	5	0.66
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	3	0.66
(1,296)	1:11:A:TRP:HE1	1:21:A:ARG:HB3	10	0.66
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	6	0.66
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	6	0.66
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	7	0.66
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	7	0.66
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	9	0.66
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	9	0.66
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	2	0.66
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	1	0.66
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	2	0.66
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	1	0.66
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	7	0.66
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	8	0.66
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	10	0.66
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	4	0.66
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	4	0.66
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	10	0.66
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	1	0.66
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	2	0.65
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	8	0.65
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	10	0.65
(1,701)	1:5:A:VAL:HG11	1:9:A:ILE:HG13	3	0.65
(1,701)	1:5:A:VAL:HG12	1:9:A:ILE:HG13	3	0.65
(1,701)	1:5:A:VAL:HG13	1:9:A:ILE:HG13	3	0.65
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	8	0.65
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	8	0.65
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	8	0.65
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	2	0.65
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	2	0.65
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	2	0.65
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	1	0.65
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	1	0.65
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	6	0.65
(1,553)	1:11:A:TRP:HB2	1:24:A:PRO:HD3	3	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	4	0.65
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	9	0.65
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	9	0.65
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	3	0.65
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	4	0.65
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	1	0.65
(1,323)	1:10:A:GLN:HE22	1:11:A:TRP:H	3	0.65
(1,231)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	2	0.65
(1,231)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	10	0.65
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	5	0.65
(1,68)	1:18:A:SER:H	1:18:A:SER:HB3	5	0.65
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	5	0.65
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	1	0.65
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	7	0.64
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	6	0.64
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	4	0.64
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	3	0.64
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	4	0.64
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	2	0.64
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	6	0.64
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	6	0.64
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	5	0.64
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	5	0.64
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	2	0.64
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	2	0.64
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	1	0.64
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	1	0.64
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	2	0.64
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	2	0.64
(1,121)	1:2:A:GLU:HB2	1:5:A:VAL:H	8	0.64
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	9	0.64
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	10	0.64
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	10	0.63
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	7	0.63
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	10	0.63
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	10	0.63
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	10	0.63
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	2	0.63
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	3	0.63
(1,650)	1:15:A:GLY:HA3	1:19:A:SER:HA	4	0.63
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	4	0.63
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	4	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	10	0.63
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	10	0.63
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	6	0.63
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	2	0.63
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	5	0.63
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	6	0.63
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	9	0.63
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	2	0.63
(1,268)	1:8:A:TYR:HD1	1:9:A:ILE:H	4	0.63
(1,268)	1:8:A:TYR:HD2	1:9:A:ILE:H	4	0.63
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	6	0.63
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	2	0.63
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	2	0.63
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	6	0.63
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	7	0.63
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	6	0.63
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	1	0.62
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	4	0.62
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	6	0.62
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	4	0.62
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	9	0.62
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	4	0.62
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	4	0.62
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	4	0.62
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	7	0.62
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	7	0.62
(1,650)	1:15:A:GLY:HA3	1:19:A:SER:HA	7	0.62
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	8	0.62
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	8	0.62
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	4	0.62
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	1	0.62
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	3	0.62
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	5	0.62
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	8	0.62
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	10	0.62
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	10	0.62
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	10	0.62
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	1	0.62
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	6	0.62
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	8	0.62
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	9	0.62
(1,352)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	9	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	1	0.62
(1,231)	1:11:A:TRP:HD1	1:21:A:ARG:HB3	8	0.62
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	1	0.62
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	3	0.62
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	3	0.62
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	8	0.62
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	8	0.61
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	1	0.61
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	2	0.61
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	5	0.61
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	4	0.61
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	3	0.61
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	10	0.61
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	3	0.61
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	6	0.61
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	2	0.61
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	1	0.61
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	3	0.61
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	4	0.61
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	7	0.61
(1,439)	1:17:A:PRO:HA	1:17:A:PRO:HB3	10	0.61
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	2	0.61
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	5	0.61
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	5	0.61
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	7	0.61
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	4	0.61
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	4	0.61
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	5	0.61
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	6	0.61
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	5	0.61
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	4	0.61
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	4	0.61
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	8	0.61
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	10	0.61
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	7	0.61
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	2	0.6
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	6	0.6
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	8	0.6
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	10	0.6
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	3	0.6
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	3	0.6
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	3	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	3	0.6
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	3	0.6
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	3	0.6
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	3	0.6
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	3	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	1	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	1	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	2	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	2	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	9	0.6
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	9	0.6
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	8	0.6
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	4	0.6
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	7	0.6
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	8	0.6
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	6	0.6
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	4	0.6
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	7	0.6
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	8	0.6
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	10	0.6
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	7	0.6
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	1	0.6
(1,401)	1:11:A:TRP:HA	1:11:A:TRP:HB2	6	0.6
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	5	0.6
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	8	0.6
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	6	0.6
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	10	0.6
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	9	0.6
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	9	0.6
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	1	0.6
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	10	0.6
(1,732)	1:2:A:GLU:HG3	1:6:A:ARG:HB3	3	0.59
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	5	0.59
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	1	0.59
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	1	0.59
(1,650)	1:15:A:GLY:HA3	1:19:A:SER:HA	8	0.59
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	7	0.59
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	7	0.59
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	7	0.59
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	8	0.59
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	7	0.59
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	10	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	9	0.59
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	5	0.59
(1,451)	1:18:A:SER:HA	1:18:A:SER:HB2	6	0.59
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	6	0.59
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	7	0.59
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	2	0.59
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	3	0.59
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	5	0.59
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	5	0.59
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	3	0.59
(1,240)	1:8:A:TYR:HD1	1:9:A:ILE:HG13	3	0.59
(1,240)	1:8:A:TYR:HD2	1:9:A:ILE:HG13	3	0.59
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	7	0.59
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	7	0.59
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	10	0.59
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	10	0.59
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	1	0.59
(1,67)	1:18:A:SER:H	1:18:A:SER:HB2	5	0.59
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	9	0.59
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	5	0.58
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	5	0.58
(1,721)	1:9:A:ILE:HG13	1:12:A:LEU:HB2	5	0.58
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	9	0.58
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	9	0.58
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	9	0.58
(1,650)	1:15:A:GLY:HA3	1:19:A:SER:HA	10	0.58
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	2	0.58
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	9	0.58
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	9	0.58
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	9	0.58
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	5	0.58
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	5	0.58
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB2	6	0.58
(1,574)	1:5:A:VAL:HA	1:8:A:TYR:HB3	6	0.58
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	9	0.58
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG2	8	0.58
(1,468)	1:21:A:ARG:HD3	1:21:A:ARG:HG3	8	0.58
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	9	0.58
(1,451)	1:18:A:SER:HA	1:18:A:SER:HB2	2	0.58
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	10	0.58
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	6	0.58
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	7	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	1	0.58
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	1	0.58
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	1	0.58
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	6	0.58
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	5	0.58
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	9	0.58
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	3	0.58
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	3	0.58
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	3	0.58
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	6	0.57
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	6	0.57
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	1	0.57
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	8	0.57
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	8	0.57
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	9	0.57
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	9	0.57
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	1	0.57
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	3	0.57
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	3	0.57
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	10	0.57
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	1	0.57
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	2	0.57
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	3	0.57
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	5	0.57
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	6	0.57
(1,433)	1:15:A:GLY:HA2	1:15:A:GLY:HA3	9	0.57
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	5	0.57
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	10	0.57
(1,299)	1:8:A:TYR:H	1:9:A:ILE:HB	8	0.57
(1,282)	1:15:A:GLY:H	1:16:A:GLY:H	7	0.57
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	6	0.57
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	7	0.57
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	9	0.57
(1,30)	1:4:A:CYS:H	1:4:A:CYS:HB2	8	0.57
(1,1)	1:7:A:LEU:HB2	1:8:A:TYR:H	4	0.57
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	6	0.56
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	6	0.56
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	6	0.56
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	7	0.56
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	7	0.56
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	7	0.56
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	10	0.56
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	5	0.56
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	7	0.56
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	9	0.56
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	4	0.56
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	7	0.56
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	4	0.56
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	4	0.56
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	4	0.56
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	4	0.56
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	4	0.56
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	4	0.56
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	10	0.56
(1,236)	1:11:A:TRP:HH2	1:22:A:PRO:HB2	1	0.56
(1,223)	1:8:A:TYR:HE1	1:23:A:PRO:HB2	1	0.56
(1,223)	1:8:A:TYR:HE2	1:23:A:PRO:HB2	1	0.56
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	7	0.56
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	7	0.56
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	6	0.56
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	7	0.56
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	9	0.55
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	8	0.55
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	10	0.55
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	2	0.55
(1,563)	1:7:A:LEU:HA	1:10:A:GLN:HB3	3	0.55
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	1	0.55
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	2	0.55
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	4	0.55
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	6	0.55
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	8	0.55
(1,530)	1:24:A:PRO:HD2	1:24:A:PRO:HG2	10	0.55
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	8	0.55
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	9	0.55
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	5	0.55
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	1	0.55
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	10	0.55
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	7	0.55
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	7	0.55
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	7	0.55
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	7	0.55
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	7	0.55
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	7	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	2	0.55
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	6	0.55
(1,223)	1:8:A:TYR:HE1	1:23:A:PRO:HB2	2	0.55
(1,223)	1:8:A:TYR:HE2	1:23:A:PRO:HB2	2	0.55
(1,223)	1:8:A:TYR:HE1	1:23:A:PRO:HB2	6	0.55
(1,223)	1:8:A:TYR:HE2	1:23:A:PRO:HB2	6	0.55
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	1	0.55
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	4	0.55
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	5	0.54
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	8	0.54
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	8	0.54
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	1	0.54
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	7	0.54
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	9	0.54
(1,525)	1:24:A:PRO:HB3	1:24:A:PRO:HD3	3	0.54
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	10	0.54
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	4	0.54
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	9	0.54
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	1	0.54
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	8	0.54
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	9	0.54
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	1	0.54
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	1	0.54
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	1	0.54
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	1	0.54
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	1	0.54
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	1	0.54
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	7	0.54
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	2	0.54
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	10	0.54
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	6	0.54
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	10	0.54
(1,24)	1:13:A:LYS:H	1:13:A:LYS:HD3	4	0.54
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	10	0.53
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	8	0.53
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	8	0.53
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	8	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	7	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	7	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	7	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	9	0.53
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	9	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	9	0.53
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG2	6	0.53
(1,668)	1:19:A:SER:HB2	1:21:A:ARG:HG3	6	0.53
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	2	0.53
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	2	0.53
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	6	0.53
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	6	0.53
(1,641)	1:8:A:TYR:HD1	1:25:A:CYS:HB3	3	0.53
(1,641)	1:8:A:TYR:HD2	1:25:A:CYS:HB3	3	0.53
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	2	0.53
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	5	0.53
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	8	0.53
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	4	0.53
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	2	0.53
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	9	0.53
(1,463)	1:21:A:ARG:HB3	1:21:A:ARG:HD3	7	0.53
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	4	0.53
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	5	0.53
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	5	0.53
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	5	0.53
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	5	0.53
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	5	0.53
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	5	0.53
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	3	0.53
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	5	0.53
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	1	0.53
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	8	0.53
(1,295)	1:11:A:TRP:HE1	1:21:A:ARG:HB2	4	0.53
(1,238)	1:8:A:TYR:HE1	1:23:A:PRO:HG3	5	0.53
(1,238)	1:8:A:TYR:HE2	1:23:A:PRO:HG3	5	0.53
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	2	0.53
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	2	0.53
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	4	0.53
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	8	0.53
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	1	0.52
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	1	0.52
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	1	0.52
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	4	0.52
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	4	0.52
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	4	0.52
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	10	0.52
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	7	0.52
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	5	0.52
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	1	0.52
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	2	0.52
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	5	0.52
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	6	0.52
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	4	0.52
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	4	0.52
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	7	0.52
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	7	0.52
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	6	0.52
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	6	0.52
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	6	0.52
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	6	0.52
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	6	0.52
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	6	0.52
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	1	0.52
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	2	0.52
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	6	0.52
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	6	0.52
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	3	0.52
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	3	0.52
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	4	0.52
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	4	0.52
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	10	0.52
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	10	0.52
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	5	0.52
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	5	0.52
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	5	0.52
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	5	0.52
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	5	0.52
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	5	0.52
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	9	0.52
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	5	0.52
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	10	0.52
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	4	0.52
(1,145)	1:11:A:TRP:H	1:12:A:LEU:HA	8	0.52
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	10	0.51
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	7	0.51
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	7	0.51
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	5	0.51
(1,552)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	7	0.51
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	8	0.51
(1,507)	1:23:A:PRO:HD2	1:23:A:PRO:HG2	3	0.51
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	8	0.51
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	10	0.51
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	5	0.51
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	5	0.51
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	3	0.51
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	3	0.51
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	3	0.51
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	6	0.51
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	4	0.51
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	4	0.51
(1,324)	1:11:A:TRP:H	1:12:A:LEU:H	3	0.51
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	6	0.51
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	9	0.51
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	8	0.51
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	10	0.51
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	4	0.51
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	6	0.51
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	6	0.51
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	6	0.51
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	6	0.51
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	6	0.51
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	6	0.51
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	8	0.51
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	8	0.51
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	4	0.51
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	4	0.51
(1,198)	1:11:A:TRP:HZ3	1:23:A:PRO:HB3	7	0.51
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	4	0.51
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	7	0.51
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	2	0.51
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	6	0.51
(1,122)	1:24:A:PRO:HB2	1:25:A:CYS:H	3	0.51
(1,82)	1:3:A:GLU:H	1:3:A:GLU:HA	5	0.51
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	10	0.51
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	10	0.5
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	10	0.5
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	9	0.5
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	9	0.5
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	2	0.5
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	2	0.5
(1,464)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	3	0.5
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	7	0.5
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	6	0.5
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	6	0.5
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	4	0.5
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	4	0.5
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	4	0.5
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	2	0.5
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	5	0.5
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	5	0.5
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	9	0.5
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	3	0.5
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	4	0.5
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	3	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	7	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	7	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	7	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	7	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	7	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	7	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	8	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	8	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	8	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	8	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	8	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	8	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	9	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	9	0.5
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	9	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	9	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	9	0.5
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	9	0.5
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	6	0.5
(1,190)	1:11:A:TRP:HD1	1:24:A:PRO:HD2	9	0.5
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	1	0.5
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	5	0.5
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	7	0.5
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	9	0.5
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	10	0.5
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	7	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	8	0.5
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	1	0.5
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	5	0.5
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	6	0.5
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	8	0.5
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	8	0.49
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	8	0.49
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	1	0.49
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	1	0.49
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	1	0.49
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	7	0.49
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	7	0.49
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	7	0.49
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	7	0.49
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	7	0.49
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	7	0.49
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	6	0.49
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	6	0.49
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	6	0.49
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	8	0.49
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	8	0.49
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	8	0.49
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD21	10	0.49
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD22	10	0.49
(1,671)	1:8:A:TYR:HA	1:12:A:LEU:HD23	10	0.49
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	5	0.49
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	4	0.49
(1,570)	1:16:A:GLY:HA3	1:17:A:PRO:HD2	6	0.49
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	10	0.49
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	8	0.49
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	8	0.49
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	3	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	8	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	8	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	8	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	9	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	9	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	9	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	10	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	10	0.49
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	10	0.49
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	8	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	9	0.49
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	9	0.49
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	9	0.49
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	9	0.49
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	9	0.49
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	9	0.49
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	9	0.49
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	1	0.49
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	6	0.49
(1,238)	1:8:A:TYR:HE1	1:23:A:PRO:HG3	1	0.49
(1,238)	1:8:A:TYR:HE2	1:23:A:PRO:HG3	1	0.49
(1,223)	1:8:A:TYR:HE1	1:23:A:PRO:HB2	5	0.49
(1,223)	1:8:A:TYR:HE2	1:23:A:PRO:HB2	5	0.49
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	2	0.49
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	2	0.49
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	2	0.49
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	2	0.49
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	2	0.49
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	2	0.49
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	8	0.49
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	3	0.49
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	8	0.49
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	2	0.49
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	4	0.49
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	7	0.48
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	7	0.48
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	2	0.48
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	2	0.48
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	2	0.48
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	2	0.48
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	2	0.48
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	2	0.48
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	8	0.48
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	7	0.48
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	4	0.48
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	4	0.48
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	10	0.48
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	10	0.48
(1,565)	1:4:A:CYS:HA	1:7:A:LEU:HG	8	0.48
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	9	0.48
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	4	0.48
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	4	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	7	0.48
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	7	0.48
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	7	0.48
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	1	0.48
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	2	0.48
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	5	0.48
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	7	0.48
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	10	0.48
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	8	0.48
(1,349)	1:6:A:ARG:HA	1:6:A:ARG:HG2	2	0.48
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	1	0.48
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	5	0.48
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	7	0.48
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	7	0.48
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	8	0.48
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	8	0.48
(1,270)	1:8:A:TYR:HD1	1:25:A:CYS:H	9	0.48
(1,270)	1:8:A:TYR:HD2	1:25:A:CYS:H	9	0.48
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	7	0.48
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	9	0.48
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	1	0.48
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	1	0.48
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	1	0.48
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	1	0.48
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	1	0.48
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	1	0.48
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	4	0.48
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	4	0.48
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	4	0.48
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	4	0.48
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	4	0.48
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	4	0.48
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	3	0.48
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	10	0.48
(1,185)	1:11:A:TRP:HB3	1:11:A:TRP:HE3	4	0.48
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	7	0.48
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	6	0.48
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	8	0.48
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	1	0.48
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	7	0.48
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	4	0.47
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	4	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	4	0.47
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	8	0.47
(1,664)	1:21:A:ARG:HB3	1:22:A:PRO:HD2	4	0.47
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	4	0.47
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	1	0.47
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	1	0.47
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	1	0.47
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	2	0.47
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	3	0.47
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	1	0.47
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	5	0.47
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	9	0.47
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	8	0.47
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	8	0.47
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	9	0.47
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	9	0.47
(1,425)	1:13:A:LYS:HB2	1:13:A:LYS:HD2	10	0.47
(1,425)	1:13:A:LYS:HB3	1:13:A:LYS:HD2	10	0.47
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	3	0.47
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	4	0.47
(1,371)	1:7:A:LEU:HB2	1:7:A:LEU:HG	6	0.47
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	8	0.47
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	8	0.47
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	8	0.47
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	6	0.47
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG21	10	0.47
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG22	10	0.47
(1,212)	1:8:A:TYR:HD1	1:9:A:ILE:HG23	10	0.47
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG21	10	0.47
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG22	10	0.47
(1,212)	1:8:A:TYR:HD2	1:9:A:ILE:HG23	10	0.47
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	3	0.47
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	8	0.47
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	10	0.47
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	2	0.47
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	10	0.47
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	5	0.47
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	5	0.47
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	3	0.47
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	7	0.46
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	7	0.46
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	3	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	3	0.46
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	3	0.46
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	3	0.46
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	3	0.46
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	3	0.46
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	6	0.46
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	8	0.46
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	5	0.46
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	6	0.46
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	1	0.46
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	2	0.46
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	3	0.46
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	8	0.46
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	9	0.46
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	10	0.46
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	10	0.46
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	10	0.46
(1,464)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	2	0.46
(1,459)	1:21:A:ARG:HA	1:21:A:ARG:HB3	6	0.46
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	1	0.46
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	6	0.46
(1,378)	1:9:A:ILE:HA	1:9:A:ILE:HG12	3	0.46
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	7	0.46
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG2	5	0.46
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG3	5	0.46
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	3	0.46
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	9	0.46
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	2	0.46
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE2	7	0.46
(1,315)	1:10:A:GLN:HE22	1:13:A:LYS:HE3	7	0.46
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	1	0.46
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	7	0.46
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	7	0.46
(1,47)	1:10:A:GLN:HE21	1:10:A:GLN:HG2	2	0.46
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	4	0.45
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	9	0.45
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	9	0.45
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	9	0.45
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	9	0.45
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	9	0.45
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	9	0.45
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	10	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	10	0.45
(1,657)	1:4:A:CYS:HB2	1:25:A:CYS:HB3	4	0.45
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	3	0.45
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	10	0.45
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	5	0.45
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	1	0.45
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	5	0.45
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	1	0.45
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	5	0.45
(1,472)	1:22:A:PRO:HA	1:22:A:PRO:HD2	7	0.45
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	9	0.45
(1,350)	1:6:A:ARG:HA	1:6:A:ARG:HG3	7	0.45
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	10	0.45
(1,273)	1:18:A:SER:H	1:19:A:SER:H	6	0.45
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	9	0.45
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	10	0.45
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	10	0.45
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	1	0.45
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	1	0.45
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	1	0.45
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	2	0.45
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	2	0.45
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	2	0.45
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	9	0.45
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	9	0.45
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	9	0.45
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	2	0.45
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	7	0.45
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	9	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	5	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	5	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	5	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	5	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	5	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	5	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	6	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	6	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	6	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	6	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	6	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	6	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	8	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	8	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	8	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	8	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	8	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	10	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	10	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	10	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	10	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	10	0.44
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	10	0.44
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	8	0.44
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	8	0.44
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	6	0.44
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	7	0.44
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	3	0.44
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	5	0.44
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	6	0.44
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	3	0.44
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	6	0.44
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	9	0.44
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	1	0.44
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	8	0.44
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	6	0.44
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	5	0.44
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	5	0.44
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	5	0.44
(1,201)	1:8:A:TYR:HE1	1:23:A:PRO:HB3	9	0.44
(1,201)	1:8:A:TYR:HE2	1:23:A:PRO:HB3	9	0.44
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	9	0.44
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	10	0.44
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	10	0.44
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	4	0.44
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	9	0.44
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	3	0.43
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	4	0.43
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	4	0.43
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	6	0.43
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	6	0.43
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	6	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	2	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	2	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	5	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	5	0.43
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	5	0.43
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	4	0.43
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	5	0.43
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	5	0.43
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	5	0.43
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	5	0.43
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	5	0.43
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	5	0.43
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	8	0.43
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	8	0.43
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	8	0.43
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	8	0.43
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	8	0.43
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	8	0.43
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	4	0.43
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	1	0.43
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	1	0.43
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	1	0.43
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	4	0.43
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	8	0.43
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	10	0.43
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	6	0.43
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	6	0.43
(1,431)	1:14:A:ASP:HA	1:14:A:ASP:HB2	2	0.43
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	4	0.43
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	4	0.43
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	4	0.43
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	4	0.43
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	4	0.43
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	4	0.43
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	8	0.43
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	8	0.43
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	8	0.43
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	8	0.43
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	8	0.43
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	8	0.43
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	2	0.43
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	7	0.43
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	10	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:18:A:SER:H	1:19:A:SER:H	4	0.43
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	8	0.43
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	1	0.43
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	10	0.43
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	7	0.43
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	8	0.42
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	3	0.42
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	3	0.42
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	3	0.42
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	8	0.42
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	8	0.42
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	8	0.42
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	9	0.42
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	9	0.42
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	9	0.42
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	5	0.42
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	5	0.42
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	5	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	1	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	1	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	1	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	1	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	1	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	1	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD11	4	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD12	4	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD13	4	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD21	4	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD22	4	0.42
(1,699)	1:6:A:ARG:HB3	1:7:A:LEU:HD23	4	0.42
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	9	0.42
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	9	0.42
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	9	0.42
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	2	0.42
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	7	0.42
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	7	0.42
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	9	0.42
(1,615)	1:16:A:GLY:H	1:19:A:SER:HB3	7	0.42
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	8	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	3	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	3	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	5	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	6	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	6	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	8	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	8	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	10	0.42
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	10	0.42
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	5	0.42
(1,492)	1:22:A:PRO:HB3	1:22:A:PRO:HG3	7	0.42
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	4	0.42
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	4	0.42
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	2	0.42
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	5	0.42
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	1	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	1	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	1	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	1	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	1	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	1	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	5	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	6	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	6	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	6	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	6	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	6	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	6	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	7	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	7	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	7	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	7	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	7	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	7	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	10	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	10	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	10	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	10	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	10	0.42
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	10	0.42
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	10	0.42
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	3	0.42
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	7	0.42
(1,273)	1:18:A:SER:H	1:19:A:SER:H	5	0.42
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	6	0.42
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	6	0.42
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	6	0.42
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	4	0.42
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	7	0.42
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	7	0.42
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	8	0.42
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	8	0.42
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	9	0.42
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	4	0.42
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	5	0.41
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	10	0.41
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	9	0.41
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	9	0.41
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	2	0.41
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	2	0.41
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	2	0.41
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	5	0.41
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	5	0.41
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	5	0.41
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	3	0.41
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	3	0.41
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	3	0.41
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	6	0.41
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	6	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	6	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	6	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	6	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	6	0.41
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	7	0.41
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	7	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	7	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	7	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	7	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	7	0.41
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	10	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	10	0.41
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	10	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	10	0.41
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	10	0.41
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	9	0.41
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	9	0.41
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	3	0.41
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	5	0.41
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	6	0.41
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	7	0.41
(1,476)	1:22:A:PRO:HA	1:22:A:PRO:HG3	7	0.41
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	1	0.41
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	1	0.41
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	9	0.41
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	9	0.41
(1,451)	1:18:A:SER:HA	1:18:A:SER:HB2	5	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	2	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	2	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	2	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	2	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	2	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	2	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	3	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	3	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	3	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	3	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	3	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	3	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	8	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	8	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	8	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	8	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	8	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	8	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD11	9	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD12	9	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD13	9	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD21	9	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD22	9	0.41
(1,369)	1:7:A:LEU:HB3	1:7:A:LEU:HD23	9	0.41
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	10	0.41
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	10	0.41
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	10	0.41
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	10	0.41
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	10	0.41
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	3	0.41
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	4	0.41
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	5	0.41
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	1	0.41
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	4	0.41
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	4	0.41
(1,160)	1:11:A:TRP:HZ2	1:22:A:PRO:HA	9	0.41
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	5	0.41
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	8	0.41
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	3	0.41
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	3	0.4
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	3	0.4
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	3	0.4
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	3	0.4
(1,648)	1:15:A:GLY:HA2	1:19:A:SER:HB2	2	0.4
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	4	0.4
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	7	0.4
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	3	0.4
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	3	0.4
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	4	0.4
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	4	0.4
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	3	0.4
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	3	0.4
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	3	0.4
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	2	0.4
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	2	0.4
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	2	0.4
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	2	0.4
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	2	0.4
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	2	0.4
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	3	0.4
(1,273)	1:18:A:SER:H	1:19:A:SER:H	9	0.4
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	7	0.4
(1,225)	1:23:A:PRO:HB2	1:25:A:CYS:H	10	0.4
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	1	0.4
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	1	0.4
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	3	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	4	0.4
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	4	0.4
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	6	0.4
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	1	0.4
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	2	0.4
(1,92)	1:19:A:SER:H	1:19:A:SER:HG	9	0.4
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	6	0.39
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	9	0.39
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	2	0.39
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	2	0.39
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	2	0.39
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	1	0.39
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	1	0.39
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	1	0.39
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	3	0.39
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	3	0.39
(1,664)	1:21:A:ARG:HB3	1:22:A:PRO:HD2	7	0.39
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	9	0.39
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	1	0.39
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	1	0.39
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	1	0.39
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	1	0.39
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	1	0.39
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	1	0.39
(1,625)	1:10:A:GLN:HE21	1:14:A:ASP:HB3	8	0.39
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	5	0.39
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	2	0.39
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	3	0.39
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	8	0.39
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	10	0.39
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	2	0.39
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	2	0.39
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	2	0.39
(1,273)	1:18:A:SER:H	1:19:A:SER:H	2	0.39
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	2	0.39
(1,238)	1:8:A:TYR:HE1	1:23:A:PRO:HG3	6	0.39
(1,238)	1:8:A:TYR:HE2	1:23:A:PRO:HG3	6	0.39
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	2	0.39
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	2	0.39
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	2	0.39
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	2	0.39
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	5	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	5	0.39
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	3	0.39
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	1	0.39
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	2	0.39
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	7	0.39
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	2	0.39
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	4	0.39
(1,55)	1:21:A:ARG:H	1:21:A:ARG:HD2	6	0.39
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	1	0.38
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	2	0.38
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	3	0.38
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	4	0.38
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	10	0.38
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	7	0.38
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	7	0.38
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	7	0.38
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	7	0.38
(1,665)	1:3:A:GLU:HG2	1:4:A:CYS:HA	4	0.38
(1,665)	1:3:A:GLU:HG3	1:4:A:CYS:HA	4	0.38
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	4	0.38
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	4	0.38
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	4	0.38
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	4	0.38
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	4	0.38
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	4	0.38
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	9	0.38
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	2	0.38
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	7	0.38
(1,564)	1:4:A:CYS:HA	1:7:A:LEU:HB3	9	0.38
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	1	0.38
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	1	0.38
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	5	0.38
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	9	0.38
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	4	0.38
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG2	7	0.38
(1,467)	1:21:A:ARG:HD2	1:21:A:ARG:HG3	7	0.38
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	1	0.38
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	1	0.38
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	1	0.38
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	5	0.38
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	5	0.38
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	10	0.38
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	3	0.38
(1,357)	1:6:A:ARG:HD3	1:6:A:ARG:HG2	6	0.38
(1,325)	1:2:A:GLU:HA	1:2:A:GLU:HB2	5	0.38
(1,273)	1:18:A:SER:H	1:19:A:SER:H	8	0.38
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	1	0.38
(1,230)	1:11:A:TRP:HD1	1:21:A:ARG:HB2	5	0.38
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	7	0.38
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	4	0.38
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	7	0.38
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	4	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	1	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	1	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	1	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	2	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	2	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	2	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	5	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	5	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	5	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	6	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	6	0.38
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	6	0.38
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	8	0.37
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	1	0.37
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	2	0.37
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	2	0.37
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	2	0.37
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	2	0.37
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	2	0.37
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	2	0.37
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	2	0.37
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	2	0.37
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	2	0.37
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	5	0.37
(1,616)	1:14:A:ASP:HB3	1:16:A:GLY:H	2	0.37
(1,615)	1:16:A:GLY:H	1:19:A:SER:HB3	4	0.37
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	1	0.37
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	1	0.37
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	6	0.37
(1,485)	1:22:A:PRO:HD3	1:22:A:PRO:HG3	6	0.37
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	3	0.37
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	7	0.37
(1,424)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	2	0.37
(1,424)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	2	0.37
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD11	6	0.37
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD12	6	0.37
(1,415)	1:12:A:LEU:HB3	1:12:A:LEU:HD13	6	0.37
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	4	0.37
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	8	0.37
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD11	3	0.37
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD12	3	0.37
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD13	3	0.37
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD21	3	0.37
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD22	3	0.37
(1,368)	1:7:A:LEU:HA	1:7:A:LEU:HD23	3	0.37
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	2	0.37
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	4	0.37
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	5	0.37
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	6	0.37
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	8	0.37
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	10	0.37
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	3	0.37
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	2	0.37
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	2	0.37
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	2	0.37
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	5	0.37
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	5	0.37
(1,193)	1:11:A:TRP:HD1	1:24:A:PRO:HD3	3	0.37
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	8	0.37
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	3	0.37
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	5	0.37
(1,129)	1:10:A:GLN:HA	1:10:A:GLN:HE21	9	0.37
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	10	0.37
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	2	0.37
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	2	0.37
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	7	0.36
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	10	0.36
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	10	0.36
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	10	0.36
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	5	0.36
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	5	0.36
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	5	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	6	0.36
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	6	0.36
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	6	0.36
(1,648)	1:15:A:GLY:HA2	1:19:A:SER:HB2	3	0.36
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	7	0.36
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD1	9	0.36
(1,631)	1:5:A:VAL:HG11	1:8:A:TYR:HD2	9	0.36
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD1	9	0.36
(1,631)	1:5:A:VAL:HG12	1:8:A:TYR:HD2	9	0.36
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD1	9	0.36
(1,631)	1:5:A:VAL:HG13	1:8:A:TYR:HD2	9	0.36
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	6	0.36
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	8	0.36
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	9	0.36
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	10	0.36
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	8	0.36
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	9	0.36
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	10	0.36
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	4	0.36
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	6	0.36
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	6	0.36
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	1	0.36
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	10	0.36
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	7	0.36
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	9	0.36
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	9	0.36
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	1	0.36
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	7	0.36
(1,273)	1:18:A:SER:H	1:19:A:SER:H	10	0.36
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	5	0.36
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	5	0.36
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	1	0.36
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	8	0.36
(1,118)	1:12:A:LEU:H	1:12:A:LEU:HG	10	0.36
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	7	0.36
(1,735)	1:2:A:GLU:HB2	1:5:A:VAL:HB	9	0.35
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	1	0.35
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	7	0.35
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	4	0.35
(1,623)	1:2:A:GLU:HB3	1:6:A:ARG:H	5	0.35
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	10	0.35
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	10	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	2	0.35
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	6	0.35
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	8	0.35
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	7	0.35
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	4	0.35
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	7	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	1	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	2	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	3	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	4	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	5	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	6	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	7	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	8	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	9	0.35
(1,488)	1:22:A:PRO:HB2	1:22:A:PRO:HB3	10	0.35
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	1	0.35
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	5	0.35
(1,474)	1:22:A:PRO:HA	1:22:A:PRO:HB3	7	0.35
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	7	0.35
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	1	0.35
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	5	0.35
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	6	0.35
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	9	0.35
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	3	0.35
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	7	0.35
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	8	0.35
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	4	0.35
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	4	0.35
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	4	0.35
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	4	0.35
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	4	0.35
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	4	0.35
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	4	0.35
(1,365)	1:7:A:LEU:HA	1:7:A:LEU:HB3	9	0.35
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	6	0.35
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	4	0.35
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	8	0.35
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	8	0.35
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	8	0.35
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	1	0.35
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	1	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	1	0.35
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	10	0.35
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	6	0.35
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	1	0.35
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	1	0.35
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD1	6	0.35
(1,166)	1:5:A:VAL:HA	1:8:A:TYR:HD2	6	0.35
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	9	0.35
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	10	0.35
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	5	0.35
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	7	0.34
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	7	0.34
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	7	0.34
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	6	0.34
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	6	0.34
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	6	0.34
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	7	0.34
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	3	0.34
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	1	0.34
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	2	0.34
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	3	0.34
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	4	0.34
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	5	0.34
(1,518)	1:23:A:PRO:HB2	1:23:A:PRO:HB3	6	0.34
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	4	0.34
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	7	0.34
(1,483)	1:22:A:PRO:HD2	1:22:A:PRO:HG2	6	0.34
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	4	0.34
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	4	0.34
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	9	0.34
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	9	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	2	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	3	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	4	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	7	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	8	0.34
(1,456)	1:20:A:GLY:HA2	1:20:A:GLY:HA3	10	0.34
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	9	0.34
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	1	0.34
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	2	0.34
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	5	0.34
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	9	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	1	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	1	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	1	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	1	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	1	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	1	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	2	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	2	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	2	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	2	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	2	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	2	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	3	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	3	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	3	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	3	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	3	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	3	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	5	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	5	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	5	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	5	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	5	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	5	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	6	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	6	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	6	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	6	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	6	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	6	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	7	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	7	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	7	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	7	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	7	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	7	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	8	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	8	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	8	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	8	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	8	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	8	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	9	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	9	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	9	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	9	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	9	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	9	0.34
(1,370)	1:7:A:LEU:HD11	1:7:A:LEU:HG	10	0.34
(1,370)	1:7:A:LEU:HD12	1:7:A:LEU:HG	10	0.34
(1,370)	1:7:A:LEU:HD13	1:7:A:LEU:HG	10	0.34
(1,370)	1:7:A:LEU:HD21	1:7:A:LEU:HG	10	0.34
(1,370)	1:7:A:LEU:HD22	1:7:A:LEU:HG	10	0.34
(1,370)	1:7:A:LEU:HD23	1:7:A:LEU:HG	10	0.34
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	2	0.34
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	5	0.34
(1,273)	1:18:A:SER:H	1:19:A:SER:H	7	0.34
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	1	0.34
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	8	0.34
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	8	0.34
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	6	0.34
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	6	0.34
(1,140)	1:9:A:ILE:HA	1:12:A:LEU:H	6	0.34
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	3	0.34
(1,99)	1:11:A:TRP:HE1	1:22:A:PRO:HA	8	0.34
(1,76)	1:25:A:CYS:H	1:25:A:CYS:HB3	3	0.34
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	3	0.34
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	8	0.34
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	2	0.33
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	1	0.33
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	1	0.33
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	1	0.33
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	1	0.33
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	1	0.33
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	1	0.33
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD21	2	0.33
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD22	2	0.33
(1,675)	1:12:A:LEU:HA	1:12:A:LEU:HD23	2	0.33
(1,644)	1:22:A:PRO:HA	1:23:A:PRO:HD2	4	0.33
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	4	0.33
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	9	0.33
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	10	0.33
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	2	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE3	2	0.33
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	2	0.33
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	2	0.33
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	4	0.33
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	6	0.33
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	9	0.33
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	3	0.33
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	4	0.33
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	7	0.33
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	8	0.33
(1,448)	1:17:A:PRO:HB2	1:17:A:PRO:HB3	10	0.33
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	3	0.33
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	5	0.33
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	10	0.33
(1,225)	1:23:A:PRO:HB2	1:25:A:CYS:H	8	0.33
(1,225)	1:23:A:PRO:HB2	1:25:A:CYS:H	9	0.33
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	4	0.33
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	5	0.33
(1,106)	1:8:A:TYR:H	1:9:A:ILE:H	3	0.33
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	1	0.33
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	1	0.33
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	5	0.32
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	4	0.32
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	4	0.32
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	4	0.32
(1,661)	1:17:A:PRO:HB3	1:18:A:SER:HB3	6	0.32
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	5	0.32
(1,648)	1:15:A:GLY:HA2	1:19:A:SER:HB2	6	0.32
(1,625)	1:10:A:GLN:HE21	1:14:A:ASP:HB3	10	0.32
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	6	0.32
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	9	0.32
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	10	0.32
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	9	0.32
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	1	0.32
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	2	0.32
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	1	0.32
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	3	0.32
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	5	0.32
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	2	0.32
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	6	0.32
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	6	0.32
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	10	0.32
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	4	0.32
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	6	0.32
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	8	0.32
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	9	0.32
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	10	0.32
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	10	0.32
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	8	0.31
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	8	0.31
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	8	0.31
(1,659)	1:11:A:TRP:HB3	1:24:A:PRO:HD2	3	0.31
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	3	0.31
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	6	0.31
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	3	0.31
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	8	0.31
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	10	0.31
(1,424)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	1	0.31
(1,424)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	1	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	2	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	4	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	5	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	6	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	7	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	8	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	9	0.31
(1,403)	1:11:A:TRP:HB2	1:11:A:TRP:HB3	10	0.31
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	6	0.31
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	3	0.31
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	7	0.31
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	2	0.31
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	7	0.31
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	9	0.31
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	9	0.31
(1,222)	1:8:A:TYR:HD1	1:23:A:PRO:HB2	9	0.31
(1,222)	1:8:A:TYR:HD2	1:23:A:PRO:HB2	9	0.31
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	5	0.31
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	5	0.31
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	5	0.31
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	9	0.31
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	9	0.31
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	4	0.31
(1,111)	1:10:A:GLN:HB3	1:11:A:TRP:H	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:18:A:SER:H	1:18:A:SER:HA	7	0.31
(1,55)	1:21:A:ARG:H	1:21:A:ARG:HD2	9	0.31
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	3	0.31
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	5	0.3
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	5	0.3
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	5	0.3
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	7	0.3
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	7	0.3
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	7	0.3
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	10	0.3
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	10	0.3
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	10	0.3
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	8	0.3
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	8	0.3
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	8	0.3
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	7	0.3
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	7	0.3
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	7	0.3
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	3	0.3
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	3	0.3
(1,681)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	3	0.3
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	1	0.3
(1,648)	1:15:A:GLY:HA2	1:19:A:SER:HB2	5	0.3
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	1	0.3
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	2	0.3
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	5	0.3
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	8	0.3
(1,571)	1:14:A:ASP:HB3	1:19:A:SER:HB2	5	0.3
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	4	0.3
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	8	0.3
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	4	0.3
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	4	0.3
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	5	0.3
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	1	0.3
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	10	0.3
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	1	0.3
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	1	0.3
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	4	0.3
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	6	0.3
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD21	6	0.3
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD22	6	0.3
(1,215)	1:11:A:TRP:HZ3	1:12:A:LEU:HD23	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	1	0.3
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	1	0.3
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	1	0.3
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	8	0.3
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	5	0.3
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	1	0.29
(1,709)	1:12:A:LEU:HD11	1:23:A:PRO:HB2	3	0.29
(1,709)	1:12:A:LEU:HD12	1:23:A:PRO:HB2	3	0.29
(1,709)	1:12:A:LEU:HD13	1:23:A:PRO:HB2	3	0.29
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	6	0.29
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	6	0.29
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	6	0.29
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	1	0.29
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	1	0.29
(1,579)	1:4:A:CYS:HA	1:7:A:LEU:HB2	4	0.29
(1,565)	1:4:A:CYS:HA	1:7:A:LEU:HG	2	0.29
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	9	0.29
(1,550)	1:11:A:TRP:HB3	1:24:A:PRO:HD3	8	0.29
(1,550)	1:11:A:TRP:HB3	1:24:A:PRO:HD3	10	0.29
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	7	0.29
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	7	0.29
(1,535)	1:23:A:PRO:HB3	1:24:A:PRO:HD2	2	0.29
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	1	0.29
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	5	0.29
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	6	0.29
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	1	0.29
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	6	0.29
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	5	0.29
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	4	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	4	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	4	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	5	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	5	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	6	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	6	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	7	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	7	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	9	0.29
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	9	0.29
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	5	0.29
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	5	0.29
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	3	0.29
(1,250)	1:11:A:TRP:HE3	1:23:A:PRO:HA	6	0.29
(1,221)	1:8:A:TYR:HE1	1:12:A:LEU:HB2	3	0.29
(1,221)	1:8:A:TYR:HE2	1:12:A:LEU:HB2	3	0.29
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	9	0.29
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	4	0.29
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	6	0.29
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	7	0.29
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	7	0.29
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	7	0.29
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	9	0.29
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	9	0.29
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	9	0.29
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	5	0.28
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	9	0.28
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	9	0.28
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	9	0.28
(1,711)	1:12:A:LEU:HD21	1:23:A:PRO:HB2	3	0.28
(1,711)	1:12:A:LEU:HD22	1:23:A:PRO:HB2	3	0.28
(1,711)	1:12:A:LEU:HD23	1:23:A:PRO:HB2	3	0.28
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	10	0.28
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	10	0.28
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	10	0.28
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	5	0.28
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	5	0.28
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	5	0.28
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	10	0.28
(1,646)	1:15:A:GLY:HA2	1:18:A:SER:HB3	1	0.28
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	2	0.28
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	5	0.28
(1,640)	1:11:A:TRP:HE3	1:24:A:PRO:HD2	6	0.28
(1,623)	1:2:A:GLU:HB3	1:6:A:ARG:H	1	0.28
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	4	0.28
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	4	0.28
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	4	0.28
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	6	0.28
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	6	0.28
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	6	0.28
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	10	0.28
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	6	0.28
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	4	0.28
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	9	0.28
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	2	0.28
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	8	0.28
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	9	0.28
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	10	0.28
(1,498)	1:23:A:PRO:HA	1:23:A:PRO:HB3	2	0.28
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	7	0.28
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	7	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	1	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	1	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	2	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	2	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	3	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	3	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	8	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	8	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG2	10	0.28
(1,443)	1:17:A:PRO:HD2	1:17:A:PRO:HG3	10	0.28
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	3	0.28
(1,411)	1:12:A:LEU:HB2	1:12:A:LEU:HG	6	0.28
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	10	0.28
(1,338)	1:4:A:CYS:HA	1:4:A:CYS:HB2	3	0.28
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	5	0.28
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	5	0.28
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	5	0.28
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	3	0.28
(1,196)	1:11:A:TRP:HH2	1:23:A:PRO:HB3	7	0.28
(1,171)	1:11:A:TRP:HH2	1:23:A:PRO:HD3	1	0.28
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	6	0.28
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	10	0.28
(1,76)	1:25:A:CYS:H	1:25:A:CYS:HB3	4	0.28
(1,56)	1:21:A:ARG:H	1:21:A:ARG:HD3	2	0.28
(1,56)	1:21:A:ARG:H	1:21:A:ARG:HD3	3	0.28
(1,55)	1:21:A:ARG:H	1:21:A:ARG:HD2	5	0.28
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	7	0.28
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	4	0.28
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	4	0.28
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	4	0.28
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	3	0.27
(1,626)	1:14:A:ASP:HB3	1:15:A:GLY:H	7	0.27
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	9	0.27
(1,512)	1:23:A:PRO:HB3	1:23:A:PRO:HD3	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,506)	1:23:A:PRO:HD3	1:23:A:PRO:HG3	3	0.27
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	4	0.27
(1,479)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	7	0.27
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	5	0.27
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	5	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	1	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	1	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	2	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	2	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	3	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	3	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	4	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	4	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	5	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	5	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	6	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	6	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	8	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	8	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	9	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	9	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG2	10	0.27
(1,445)	1:17:A:PRO:HD3	1:17:A:PRO:HG3	10	0.27
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	8	0.27
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	8	0.27
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	8	0.27
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	10	0.27
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	10	0.27
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	10	0.27
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	1	0.27
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	2	0.27
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	2	0.27
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	2	0.27
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	9	0.27
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	3	0.27
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	10	0.27
(1,250)	1:11:A:TRP:HE3	1:23:A:PRO:HA	1	0.27
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	5	0.27
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	7	0.27
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	8	0.27
(1,40)	1:6:A:ARG:H	1:6:A:ARG:HB2	9	0.27
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	8	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	8	0.27
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	8	0.27
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD21	10	0.27
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD22	10	0.27
(1,10)	1:9:A:ILE:H	1:12:A:LEU:HD23	10	0.27
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	6	0.26
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	2	0.26
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	8	0.26
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	8	0.26
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	8	0.26
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	1	0.26
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	7	0.26
(1,569)	1:8:A:TYR:HA	1:11:A:TRP:HB3	9	0.26
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	1	0.26
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	1	0.26
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	2	0.26
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	4	0.26
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	4	0.26
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	4	0.26
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	7	0.26
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	7	0.26
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	7	0.26
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	9	0.26
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	9	0.26
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	9	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	3	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	4	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	5	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	6	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	7	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	8	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	9	0.26
(1,410)	1:12:A:LEU:HB2	1:12:A:LEU:HB3	10	0.26
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	1	0.26
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	10	0.26
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	1	0.26
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	10	0.26
(1,277)	1:20:A:GLY:H	1:21:A:ARG:H	4	0.26
(1,273)	1:18:A:SER:H	1:19:A:SER:H	3	0.26
(1,263)	1:18:A:SER:HA	1:20:A:GLY:H	8	0.26
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	2	0.26
(1,250)	1:11:A:TRP:HE3	1:23:A:PRO:HA	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,250)	1:11:A:TRP:HE3	1:23:A:PRO:HA	5	0.26
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	1	0.26
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	1	0.26
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	7	0.26
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	7	0.26
(1,218)	1:11:A:TRP:HH2	1:12:A:LEU:HD21	3	0.26
(1,218)	1:11:A:TRP:HH2	1:12:A:LEU:HD22	3	0.26
(1,218)	1:11:A:TRP:HH2	1:12:A:LEU:HD23	3	0.26
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	1	0.26
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	2	0.26
(1,172)	1:11:A:TRP:HZ2	1:23:A:PRO:HD3	2	0.26
(1,171)	1:11:A:TRP:HH2	1:23:A:PRO:HD3	5	0.26
(1,171)	1:11:A:TRP:HH2	1:23:A:PRO:HD3	6	0.26
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	6	0.26
(1,730)	1:2:A:GLU:HG3	1:6:A:ARG:HG3	7	0.25
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	8	0.25
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	7	0.25
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	9	0.25
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	3	0.25
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	4	0.25
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	9	0.25
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	8	0.25
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	8	0.25
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	10	0.25
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	10	0.25
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	10	0.25
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	3	0.25
(1,576)	1:22:A:PRO:HA	1:23:A:PRO:HD3	6	0.25
(1,565)	1:4:A:CYS:HA	1:7:A:LEU:HG	1	0.25
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE2	2	0.25
(1,546)	1:13:A:LYS:HD3	1:13:A:LYS:HE3	2	0.25
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	1	0.25
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	5	0.25
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	2	0.25
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	6	0.25
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	10	0.25
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	2	0.25
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	5	0.25
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	6	0.25
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	3	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	1	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	3	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	4	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	5	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	6	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	7	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	8	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	9	0.25
(1,434)	1:16:A:GLY:HA2	1:16:A:GLY:HA3	10	0.25
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	2	0.25
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	2	0.25
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	2	0.25
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	5	0.25
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	5	0.25
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	5	0.25
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	6	0.25
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	6	0.25
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	6	0.25
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	2	0.25
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	8	0.25
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	2	0.25
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	3	0.25
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	5	0.25
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	6	0.25
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	7	0.25
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	7	0.25
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	10	0.25
(1,293)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	2	0.25
(1,250)	1:11:A:TRP:HE3	1:23:A:PRO:HA	2	0.25
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	4	0.25
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	4	0.25
(1,238)	1:8:A:TYR:HE1	1:23:A:PRO:HG3	2	0.25
(1,238)	1:8:A:TYR:HE2	1:23:A:PRO:HG3	2	0.25
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	7	0.25
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	7	0.25
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	2	0.25
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	10	0.25
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	5	0.24
(1,734)	1:2:A:GLU:HG3	1:5:A:VAL:HB	4	0.24
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	5	0.24
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	5	0.24
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	5	0.24
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	1	0.24
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	1	0.24
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	9	0.24
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	9	0.24
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	9	0.24
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	4	0.24
(1,651)	1:3:A:GLU:HA	1:6:A:ARG:HD2	6	0.24
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	8	0.24
(1,563)	1:7:A:LEU:HA	1:10:A:GLN:HB3	9	0.24
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	2	0.24
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	4	0.24
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	5	0.24
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	8	0.24
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	9	0.24
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	8	0.24
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	1	0.24
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	1	0.24
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	1	0.24
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	3	0.24
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	5	0.24
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	2	0.24
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	8	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	1	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	4	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	7	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	8	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	9	0.24
(1,383)	1:9:A:ILE:HG12	1:9:A:ILE:HG13	10	0.24
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	7	0.24
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	4	0.24
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	8	0.24
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	9	0.24
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	2	0.24
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	2	0.24
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	6	0.24
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	6	0.24
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	10	0.24
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	10	0.24
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD11	6	0.24
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD12	6	0.24
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD13	6	0.24
(1,154)	1:7:A:LEU:H	1:7:A:LEU:HB2	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	1	0.24
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	2	0.23
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	6	0.23
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	4	0.23
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	8	0.23
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	9	0.23
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	6	0.23
(1,657)	1:4:A:CYS:HB2	1:25:A:CYS:HB3	6	0.23
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	9	0.23
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	6	0.23
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	1	0.23
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	1	0.23
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	4	0.23
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	4	0.23
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	10	0.23
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	10	0.23
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	2	0.23
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	2	0.23
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	2	0.23
(1,563)	1:7:A:LEU:HA	1:10:A:GLN:HB3	2	0.23
(1,563)	1:7:A:LEU:HA	1:10:A:GLN:HB3	10	0.23
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	5	0.23
(1,526)	1:24:A:PRO:HB3	1:24:A:PRO:HD2	7	0.23
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	10	0.23
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG2	7	0.23
(1,461)	1:21:A:ARG:HA	1:21:A:ARG:HG3	7	0.23
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	2	0.23
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	3	0.23
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	3	0.23
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	3	0.23
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	6	0.23
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	7	0.23
(1,391)	1:10:A:GLN:HA	1:10:A:GLN:HG2	10	0.23
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	1	0.23
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	2	0.23
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	5	0.23
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	6	0.23
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	7	0.23
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	8	0.23
(1,359)	1:6:A:ARG:HD2	1:6:A:ARG:HG3	8	0.23
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	8	0.23
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,276)	1:19:A:SER:H	1:20:A:GLY:H	2	0.23
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	10	0.23
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD11	5	0.23
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD12	5	0.23
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD13	5	0.23
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	5	0.23
(1,61)	1:11:A:TRP:HB2	1:12:A:LEU:H	8	0.23
(1,61)	1:11:A:TRP:HB2	1:12:A:LEU:H	10	0.23
(1,55)	1:21:A:ARG:H	1:21:A:ARG:HD2	1	0.23
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	10	0.23
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	6	0.22
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	6	0.22
(1,662)	1:17:A:PRO:HB3	1:18:A:SER:HB2	5	0.22
(1,634)	1:11:A:TRP:HE3	1:23:A:PRO:HB2	2	0.22
(1,623)	1:2:A:GLU:HB3	1:6:A:ARG:H	2	0.22
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	5	0.22
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	10	0.22
(1,550)	1:11:A:TRP:HB3	1:24:A:PRO:HD3	7	0.22
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	1	0.22
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE3	1	0.22
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	1	0.22
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	1	0.22
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	4	0.22
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE3	4	0.22
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	4	0.22
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	4	0.22
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	3	0.22
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	8	0.22
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	10	0.22
(1,465)	1:21:A:ARG:HB2	1:21:A:ARG:HD2	8	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	1	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	2	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	4	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	5	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	6	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	7	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	8	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	9	0.22
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	10	0.22
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	4	0.22
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	8	0.22
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,404)	1:12:A:LEU:HA	1:12:A:LEU:HB3	10	0.22
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	3	0.22
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	4	0.22
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	4	0.22
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	4	0.22
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	7	0.22
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	7	0.22
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	7	0.22
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	8	0.22
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	8	0.22
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	8	0.22
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	9	0.22
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	9	0.22
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	9	0.22
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	10	0.22
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	10	0.22
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	10	0.22
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	3	0.22
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	4	0.22
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	9	0.22
(1,364)	1:6:A:ARG:HG2	1:6:A:ARG:HG3	10	0.22
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	8	0.22
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	9	0.22
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	6	0.22
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	9	0.22
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	1	0.22
(1,293)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	5	0.22
(1,284)	1:2:A:GLU:HA	1:3:A:GLU:H	10	0.22
(1,259)	1:4:A:CYS:HB3	1:5:A:VAL:H	7	0.22
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	10	0.22
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	10	0.22
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD11	2	0.22
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD12	2	0.22
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD13	2	0.22
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	8	0.22
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	8	0.22
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	10	0.22
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	10	0.22
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	5	0.22
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	8	0.22
(1,98)	1:11:A:TRP:HE1	1:19:A:SER:HG	8	0.22
(1,98)	1:11:A:TRP:HE1	1:19:A:SER:HG	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	1	0.22
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	3	0.22
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	1	0.21
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	6	0.21
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	6	0.21
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	6	0.21
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	6	0.21
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	6	0.21
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	6	0.21
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	5	0.21
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	5	0.21
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	5	0.21
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	10	0.21
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	10	0.21
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	10	0.21
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD21	3	0.21
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD22	3	0.21
(1,680)	1:11:A:TRP:HB3	1:12:A:LEU:HD23	3	0.21
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	7	0.21
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	7	0.21
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	7	0.21
(1,647)	1:15:A:GLY:HA2	1:18:A:SER:HB2	2	0.21
(1,633)	1:11:A:TRP:HZ3	1:23:A:PRO:HB2	2	0.21
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	7	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	2	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	2	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	6	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	6	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	7	0.21
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	7	0.21
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	3	0.21
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	1	0.21
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	2	0.21
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	5	0.21
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	9	0.21
(1,455)	1:19:A:SER:HB2	1:19:A:SER:HB3	3	0.21
(1,424)	1:13:A:LYS:HB2	1:13:A:LYS:HD3	3	0.21
(1,424)	1:13:A:LYS:HB3	1:13:A:LYS:HD3	3	0.21
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	8	0.21
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	8	0.21
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	8	0.21
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	8	0.21
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	8	0.21
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	8	0.21
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	8	0.21
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	8	0.21
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	6	0.21
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	6	0.21
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	6	0.21
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	1	0.21
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	1	0.21
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	1	0.21
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	2	0.21
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	2	0.21
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	2	0.21
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	5	0.21
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	5	0.21
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	5	0.21
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	6	0.21
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	6	0.21
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	6	0.21
(1,352)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	7	0.21
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	10	0.21
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	7	0.21
(1,301)	1:12:A:LEU:H	1:12:A:LEU:HB2	2	0.21
(1,293)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	1	0.21
(1,273)	1:18:A:SER:H	1:19:A:SER:H	1	0.21
(1,239)	1:8:A:TYR:HE1	1:12:A:LEU:HG	8	0.21
(1,239)	1:8:A:TYR:HE2	1:12:A:LEU:HG	8	0.21
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	3	0.21
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	10	0.21
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	10	0.21
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	10	0.21
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	10	0.21
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	10	0.21
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	10	0.21
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	3	0.21
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	2	0.21
(1,61)	1:11:A:TRP:HB2	1:12:A:LEU:H	4	0.21
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG21	3	0.21
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG22	3	0.21
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG23	3	0.21
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG21	3	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG22	3	0.21
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG23	3	0.21
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	4	0.2
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	7	0.2
(1,728)	1:2:A:GLU:HG2	1:6:A:ARG:HG2	10	0.2
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	9	0.2
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	9	0.2
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	9	0.2
(1,715)	1:9:A:ILE:HG21	1:12:A:LEU:HB2	3	0.2
(1,715)	1:9:A:ILE:HG22	1:12:A:LEU:HB2	3	0.2
(1,715)	1:9:A:ILE:HG23	1:12:A:LEU:HB2	3	0.2
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	4	0.2
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	4	0.2
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	4	0.2
(1,634)	1:11:A:TRP:HE3	1:23:A:PRO:HB2	1	0.2
(1,634)	1:11:A:TRP:HE3	1:23:A:PRO:HB2	5	0.2
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	3	0.2
(1,618)	1:10:A:GLN:HE21	1:13:A:LYS:HD3	10	0.2
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	10	0.2
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	3	0.2
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	3	0.2
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	1	0.2
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	3	0.2
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	4	0.2
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	5	0.2
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	6	0.2
(1,597)	1:1:A:GLU:HA	1:1:A:GLU:HB2	8	0.2
(1,565)	1:4:A:CYS:HA	1:7:A:LEU:HG	5	0.2
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	2	0.2
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	10	0.2
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	6	0.2
(1,450)	1:18:A:SER:HA	1:18:A:SER:HB3	6	0.2
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	10	0.2
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	10	0.2
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	10	0.2
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	10	0.2
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	10	0.2
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	10	0.2
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	10	0.2
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	10	0.2
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	10	0.2
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	5	0.2
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	5	0.2
(1,405)	1:12:A:LEU:HA	1:12:A:LEU:HG	3	0.2
(1,385)	1:9:A:ILE:HD11	1:9:A:ILE:HG13	3	0.2
(1,385)	1:9:A:ILE:HD12	1:9:A:ILE:HG13	3	0.2
(1,385)	1:9:A:ILE:HD13	1:9:A:ILE:HG13	3	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	1	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	2	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	3	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	4	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	5	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	6	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	7	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	8	0.2
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	9	0.2
(1,248)	1:8:A:TYR:HD1	1:23:A:PRO:HA	6	0.2
(1,248)	1:8:A:TYR:HD2	1:23:A:PRO:HA	6	0.2
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	2	0.2
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	4	0.2
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	4	0.2
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	9	0.2
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	9	0.2
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	9	0.2
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	8	0.2
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	8	0.2
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	4	0.2
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	4	0.2
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	7	0.2
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	2	0.2
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	2	0.2
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	2	0.2
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	2	0.2
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	2	0.2
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	2	0.2
(1,98)	1:11:A:TRP:HE1	1:19:A:SER:HG	1	0.2
(1,76)	1:25:A:CYS:H	1:25:A:CYS:HB3	6	0.2
(1,61)	1:11:A:TRP:HB2	1:12:A:LEU:H	7	0.2
(1,61)	1:11:A:TRP:HB2	1:12:A:LEU:H	9	0.2
(1,55)	1:21:A:ARG:H	1:21:A:ARG:HD2	4	0.2
(1,26)	1:2:A:GLU:HB2	1:3:A:GLU:H	9	0.2
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	9	0.19
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	1	0.19
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	1	0.19
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	4	0.19
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	4	0.19
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	4	0.19
(1,704)	1:9:A:ILE:HG21	1:13:A:LYS:HD3	9	0.19
(1,704)	1:9:A:ILE:HG22	1:13:A:LYS:HD3	9	0.19
(1,704)	1:9:A:ILE:HG23	1:13:A:LYS:HD3	9	0.19
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	2	0.19
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	2	0.19
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	2	0.19
(1,666)	1:24:A:PRO:HG2	1:25:A:CYS:HB2	10	0.19
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	7	0.19
(1,653)	1:4:A:CYS:HB3	1:25:A:CYS:HB2	10	0.19
(1,652)	1:3:A:GLU:HA	1:6:A:ARG:HD3	2	0.19
(1,633)	1:11:A:TRP:HZ3	1:23:A:PRO:HB2	1	0.19
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	9	0.19
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	8	0.19
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	9	0.19
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	9	0.19
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	7	0.19
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE3	7	0.19
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	7	0.19
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	7	0.19
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	3	0.19
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	8	0.19
(1,479)	1:22:A:PRO:HB3	1:22:A:PRO:HD3	4	0.19
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	1	0.19
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	7	0.19
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	7	0.19
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	7	0.19
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	7	0.19
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	7	0.19
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	7	0.19
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	7	0.19
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	7	0.19
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	7	0.19
(1,417)	1:12:A:LEU:HB2	1:12:A:LEU:HD11	3	0.19
(1,417)	1:12:A:LEU:HB2	1:12:A:LEU:HD12	3	0.19
(1,417)	1:12:A:LEU:HB2	1:12:A:LEU:HD13	3	0.19
(1,412)	1:12:A:LEU:HD21	1:12:A:LEU:HG	3	0.19
(1,412)	1:12:A:LEU:HD22	1:12:A:LEU:HG	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:12:A:LEU:HD23	1:12:A:LEU:HG	3	0.19
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	2	0.19
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	10	0.19
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	3	0.19
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	3	0.19
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	8	0.19
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	8	0.19
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	9	0.19
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	9	0.19
(1,337)	1:4:A:CYS:HA	1:4:A:CYS:HB3	3	0.19
(1,333)	1:2:A:GLU:HB2	1:2:A:GLU:HB3	10	0.19
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	1	0.19
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	3	0.19
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	2	0.19
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	4	0.19
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	4	0.19
(1,293)	1:11:A:TRP:HE1	1:24:A:PRO:HD2	6	0.19
(1,284)	1:2:A:GLU:HA	1:3:A:GLU:H	7	0.19
(1,284)	1:2:A:GLU:HA	1:3:A:GLU:H	9	0.19
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	5	0.19
(1,225)	1:23:A:PRO:HB2	1:25:A:CYS:H	1	0.19
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD11	1	0.19
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD12	1	0.19
(1,210)	1:11:A:TRP:HE3	1:12:A:LEU:HD13	1	0.19
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	3	0.19
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	7	0.19
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	8	0.19
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	9	0.19
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	10	0.19
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	3	0.19
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	8	0.19
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	9	0.19
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	9	0.19
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	9	0.19
(1,173)	1:11:A:TRP:HH2	1:17:A:PRO:HD3	6	0.19
(1,164)	1:8:A:TYR:HA	1:8:A:TYR:HD1	3	0.19
(1,164)	1:8:A:TYR:HA	1:8:A:TYR:HD2	3	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	7	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	7	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	7	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	7	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	7	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	8	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	8	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	8	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	8	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	8	0.19
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	8	0.19
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	5	0.19
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	5	0.19
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	1	0.19
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	5	0.19
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	7	0.19
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	8	0.18
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	8	0.18
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	8	0.18
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	8	0.18
(1,695)	1:5:A:VAL:HG11	1:9:A:ILE:HB	6	0.18
(1,695)	1:5:A:VAL:HG12	1:9:A:ILE:HB	6	0.18
(1,695)	1:5:A:VAL:HG13	1:9:A:ILE:HB	6	0.18
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	8	0.18
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	8	0.18
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	8	0.18
(1,648)	1:15:A:GLY:HA2	1:19:A:SER:HB2	1	0.18
(1,647)	1:15:A:GLY:HA2	1:18:A:SER:HB2	6	0.18
(1,625)	1:10:A:GLN:HE21	1:14:A:ASP:HB3	6	0.18
(1,623)	1:2:A:GLU:HB3	1:6:A:ARG:H	8	0.18
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	3	0.18
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	1	0.18
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	2	0.18
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	2	0.18
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	5	0.18
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	5	0.18
(1,605)	1:8:A:TYR:HE1	1:11:A:TRP:HZ3	6	0.18
(1,605)	1:8:A:TYR:HE2	1:11:A:TRP:HZ3	6	0.18
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG2	5	0.18
(1,600)	1:1:A:GLU:HB3	1:1:A:GLU:HG3	5	0.18
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	8	0.18
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	8	0.18
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	8	0.18
(1,550)	1:11:A:TRP:HB3	1:24:A:PRO:HD3	4	0.18
(1,550)	1:11:A:TRP:HB3	1:24:A:PRO:HD3	9	0.18
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	2	0.18
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	5	0.18
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	4	0.18
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	9	0.18
(1,494)	1:21:A:ARG:HA	1:22:A:PRO:HD3	7	0.18
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	5	0.18
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	6	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	1	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	2	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	3	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	4	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	5	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	6	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	7	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	8	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	9	0.18
(1,440)	1:17:A:PRO:HD2	1:17:A:PRO:HD3	10	0.18
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	3	0.18
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	4	0.18
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	7	0.18
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	8	0.18
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	10	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	1	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	1	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	1	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	1	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	1	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	1	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	1	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	1	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	1	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	2	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	2	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	2	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	2	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	2	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	2	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	2	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	2	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	2	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	3	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	3	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	3	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	3	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	3	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	3	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	3	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	3	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	4	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	4	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	4	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	4	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	4	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	4	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	4	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	4	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	4	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	9	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	9	0.18
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	9	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	9	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	9	0.18
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	9	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	9	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	9	0.18
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	9	0.18
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	8	0.18
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	5	0.18
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	6	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	4	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	4	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	7	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	7	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	10	0.18
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	10	0.18
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	4	0.18
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	6	0.18
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	2	0.18
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	5	0.18
(1,326)	1:2:A:GLU:HA	1:2:A:GLU:HB3	1	0.18
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	8	0.18
(1,321)	1:11:A:TRP:HB3	1:12:A:LEU:H	10	0.18
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	5	0.18
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	4	0.18
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	6	0.18
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	1	0.18
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	5	0.18
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	1	0.18
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	1	0.18
(1,214)	1:8:A:TYR:HD1	1:12:A:LEU:HD21	3	0.18
(1,214)	1:8:A:TYR:HD1	1:12:A:LEU:HD22	3	0.18
(1,214)	1:8:A:TYR:HD1	1:12:A:LEU:HD23	3	0.18
(1,214)	1:8:A:TYR:HD2	1:12:A:LEU:HD21	3	0.18
(1,214)	1:8:A:TYR:HD2	1:12:A:LEU:HD22	3	0.18
(1,214)	1:8:A:TYR:HD2	1:12:A:LEU:HD23	3	0.18
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	7	0.18
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	7	0.18
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	7	0.18
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	5	0.18
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	5	0.18
(1,179)	1:11:A:TRP:HB2	1:11:A:TRP:HD1	10	0.18
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	2	0.18
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	3	0.18
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	5	0.18
(1,736)	1:23:A:PRO:HA	1:24:A:PRO:HD3	10	0.17
(1,654)	1:14:A:ASP:HB3	1:19:A:SER:HB3	5	0.17
(1,642)	1:8:A:TYR:HD1	1:25:A:CYS:HB2	1	0.17
(1,642)	1:8:A:TYR:HD2	1:25:A:CYS:HB2	1	0.17
(1,633)	1:11:A:TRP:HZ3	1:23:A:PRO:HB2	6	0.17
(1,615)	1:16:A:GLY:H	1:19:A:SER:HB3	9	0.17
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG2	4	0.17
(1,596)	1:1:A:GLU:HA	1:1:A:GLU:HG3	4	0.17
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	9	0.17
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	9	0.17
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	9	0.17
(1,563)	1:7:A:LEU:HA	1:10:A:GLN:HB3	8	0.17
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	3	0.17
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	7	0.17
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	8	0.17
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	9	0.17
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	10	0.17
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	2	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	1	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	4	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	5	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	6	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	7	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	8	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	9	0.17
(1,531)	1:24:A:PRO:HB2	1:24:A:PRO:HB3	10	0.17
(1,522)	1:24:A:PRO:HA	1:24:A:PRO:HD3	7	0.17
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	2	0.17
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	4	0.17
(1,489)	1:22:A:PRO:HB2	1:22:A:PRO:HG2	7	0.17
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	10	0.17
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	10	0.17
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	1	0.17
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	2	0.17
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	5	0.17
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	6	0.17
(1,432)	1:14:A:ASP:HB2	1:14:A:ASP:HB3	9	0.17
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	1	0.17
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	1	0.17
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	2	0.17
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	2	0.17
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	5	0.17
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	5	0.17
(1,353)	1:6:A:ARG:HB3	1:6:A:ARG:HD3	9	0.17
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	9	0.17
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	9	0.17
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	9	0.17
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	3	0.17
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	10	0.17
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	2	0.17
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	2	0.17
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	6	0.17
(1,284)	1:2:A:GLU:HA	1:3:A:GLU:H	3	0.17
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	9	0.17
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	7	0.17
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	7	0.17
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	8	0.17
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	8	0.17
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	9	0.17
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	9	0.17
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	4	0.17
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	4	0.17
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	6	0.17
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	6	0.17
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	1	0.17
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	1	0.17
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	2	0.17
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	2	0.17
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	6	0.17
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	6	0.17
(1,123)	1:24:A:PRO:HG2	1:25:A:CYS:H	7	0.17
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	6	0.17
(1,98)	1:11:A:TRP:HE1	1:19:A:SER:HG	3	0.17
(1,94)	1:20:A:GLY:HA3	1:21:A:ARG:H	6	0.17
(1,94)	1:20:A:GLY:HA3	1:21:A:ARG:H	9	0.17
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	2	0.17
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	6	0.17
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	1	0.16
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	4	0.16
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	4	0.16
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	4	0.16
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	1	0.16
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	1	0.16
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	1	0.16
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	1	0.16
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	1	0.16
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	1	0.16
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	4	0.16
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	4	0.16
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	4	0.16
(1,695)	1:5:A:VAL:HG11	1:9:A:ILE:HB	8	0.16
(1,695)	1:5:A:VAL:HG12	1:9:A:ILE:HB	8	0.16
(1,695)	1:5:A:VAL:HG13	1:9:A:ILE:HB	8	0.16
(1,641)	1:8:A:TYR:HD1	1:25:A:CYS:HB3	2	0.16
(1,641)	1:8:A:TYR:HD2	1:25:A:CYS:HB3	2	0.16
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	4	0.16
(1,621)	1:2:A:GLU:HB2	1:6:A:ARG:H	6	0.16
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	8	0.16
(1,542)	1:7:A:LEU:HB2	1:24:A:PRO:HB3	10	0.16
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	4	0.16
(1,540)	1:25:A:CYS:HB2	1:25:A:CYS:HB3	6	0.16
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	2	0.16
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	5	0.16
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	8	0.16
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	1	0.16
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	6	0.16
(1,477)	1:22:A:PRO:HA	1:22:A:PRO:HB2	9	0.16
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	5	0.16
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	5	0.16
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	5	0.16
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	5	0.16
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	5	0.16
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	5	0.16
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	5	0.16
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	5	0.16
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	5	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	1	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	1	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	1	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	9	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	9	0.16
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	9	0.16
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	4	0.16
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB2	6	0.16
(1,375)	1:8:A:TYR:HA	1:8:A:TYR:HB3	6	0.16
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	3	0.16
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	10	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	1	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	1	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	1	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	3	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	3	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	3	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	5	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	5	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	5	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	7	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	7	0.16
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	7	0.16
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	1	0.16
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	2	0.16
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	5	0.16
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	8	0.16
(1,339)	1:4:A:CYS:HB2	1:4:A:CYS:HB3	9	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	1	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	1	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	6	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	6	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	7	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	7	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	10	0.16
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	10	0.16
(1,331)	1:2:A:GLU:HB2	1:2:A:GLU:HG3	4	0.16
(1,255)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	6	0.16
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	9	0.16
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	10	0.16
(1,232)	1:11:A:TRP:HE3	1:12:A:LEU:HG	6	0.16
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	6	0.16
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	1	0.16
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	1	0.16
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	2	0.16
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	2	0.16
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	9	0.16
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	9	0.16
(1,177)	1:8:A:TYR:HD1	1:12:A:LEU:HA	4	0.16
(1,177)	1:8:A:TYR:HD2	1:12:A:LEU:HA	4	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	5	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	5	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	5	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	5	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	5	0.16
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	5	0.16
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	4	0.16
(1,98)	1:11:A:TRP:HE1	1:19:A:SER:HG	4	0.16
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	4	0.16
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	7	0.16
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	10	0.16
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	2	0.15
(1,720)	1:7:A:LEU:HB2	1:24:A:PRO:HB2	4	0.15
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	7	0.15
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	7	0.15
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	7	0.15
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	10	0.15
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	10	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	5	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	5	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	5	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	5	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	5	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	5	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	8	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	8	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	8	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	8	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	8	0.15
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	8	0.15
(1,695)	1:5:A:VAL:HG11	1:9:A:ILE:HB	7	0.15
(1,695)	1:5:A:VAL:HG12	1:9:A:ILE:HB	7	0.15
(1,695)	1:5:A:VAL:HG13	1:9:A:ILE:HB	7	0.15
(1,694)	1:9:A:ILE:HG21	1:12:A:LEU:HB3	3	0.15
(1,694)	1:9:A:ILE:HG22	1:12:A:LEU:HB3	3	0.15
(1,694)	1:9:A:ILE:HG23	1:12:A:LEU:HB3	3	0.15
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD11	10	0.15
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD12	10	0.15
(1,677)	1:12:A:LEU:HA	1:12:A:LEU:HD13	10	0.15
(1,641)	1:8:A:TYR:HD1	1:25:A:CYS:HB3	5	0.15
(1,641)	1:8:A:TYR:HD2	1:25:A:CYS:HB3	5	0.15
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	2	0.15
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	5	0.15
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	1	0.15
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	1	0.15
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	1	0.15
(1,552)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	5	0.15
(1,552)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	6	0.15
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	10	0.15
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	3	0.15
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	4	0.15
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	6	0.15
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	7	0.15
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	9	0.15
(1,524)	1:24:A:PRO:HD2	1:24:A:PRO:HD3	10	0.15
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	1	0.15
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	2	0.15
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	5	0.15
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	10	0.15
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	5	0.15
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	8	0.15
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	10	0.15
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	3	0.15
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	8	0.15
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	10	0.15
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD21	6	0.15
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD22	6	0.15
(1,418)	1:12:A:LEU:HD11	1:12:A:LEU:HD23	6	0.15
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD21	6	0.15
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD22	6	0.15
(1,418)	1:12:A:LEU:HD12	1:12:A:LEU:HD23	6	0.15
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD21	6	0.15
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD22	6	0.15
(1,418)	1:12:A:LEU:HD13	1:12:A:LEU:HD23	6	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	1	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	2	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	4	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	5	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	6	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	7	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	8	0.15
(1,372)	1:7:A:LEU:HB2	1:7:A:LEU:HB3	9	0.15
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	10	0.15
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	10	0.15
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	10	0.15
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	8	0.15
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	8	0.15
(1,263)	1:18:A:SER:HA	1:20:A:GLY:H	10	0.15
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	6	0.15
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	7	0.15
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	1	0.15
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	2	0.15
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	2	0.15
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	4	0.15
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	4	0.15
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	5	0.15
(1,94)	1:20:A:GLY:HA3	1:21:A:ARG:H	1	0.15
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	2	0.15
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	6	0.15
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	2	0.14
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	4	0.14
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	4	0.14
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	4	0.14
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD11	7	0.14
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD12	7	0.14
(1,716)	1:9:A:ILE:HG12	1:12:A:LEU:HD13	7	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	6	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	6	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	6	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	6	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	6	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	6	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	10	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	10	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	10	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	10	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	10	0.14
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	10	0.14
(1,646)	1:15:A:GLY:HA2	1:18:A:SER:HB3	5	0.14
(1,642)	1:8:A:TYR:HD1	1:25:A:CYS:HB2	8	0.14
(1,642)	1:8:A:TYR:HD2	1:25:A:CYS:HB2	8	0.14
(1,641)	1:8:A:TYR:HD1	1:25:A:CYS:HB3	1	0.14
(1,641)	1:8:A:TYR:HD2	1:25:A:CYS:HB3	1	0.14
(1,634)	1:11:A:TRP:HE3	1:23:A:PRO:HB2	6	0.14
(1,614)	1:19:A:SER:HG	1:20:A:GLY:H	3	0.14
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	1	0.14
(1,601)	1:10:A:GLN:H	1:12:A:LEU:H	6	0.14
(1,593)	1:11:A:TRP:HA	1:14:A:ASP:HB3	2	0.14
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	7	0.14
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	7	0.14
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	7	0.14
(1,552)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	2	0.14
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	9	0.14
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	4	0.14
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	8	0.14
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	9	0.14
(1,515)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	4	0.14
(1,515)	1:23:A:PRO:HB2	1:23:A:PRO:HG2	7	0.14
(1,497)	1:23:A:PRO:HA	1:23:A:PRO:HB2	9	0.14
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	1	0.14
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	4	0.14
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	5	0.14
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	6	0.14
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	7	0.14
(1,478)	1:22:A:PRO:HD2	1:22:A:PRO:HD3	9	0.14
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	3	0.14
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	3	0.14
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	8	0.14
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	8	0.14
(1,453)	1:19:A:SER:HA	1:19:A:SER:HB2	5	0.14
(1,453)	1:19:A:SER:HA	1:19:A:SER:HB2	6	0.14
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	5	0.14
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	5	0.14
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	5	0.14
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	4	0.14
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	4	0.14
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	4	0.14
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	8	0.14
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	8	0.14
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	8	0.14
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	4	0.14
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	4	0.14
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	9	0.14
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	9	0.14
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	4	0.14
(1,251)	1:8:A:TYR:HE1	1:23:A:PRO:HA	3	0.14
(1,251)	1:8:A:TYR:HE2	1:23:A:PRO:HA	3	0.14
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	7	0.14
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	7	0.14
(1,195)	1:8:A:TYR:HE1	1:24:A:PRO:HD3	10	0.14
(1,195)	1:8:A:TYR:HE2	1:24:A:PRO:HD3	10	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	1	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	1	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	1	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	1	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	1	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	1	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	9	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	9	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	9	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	9	0.14
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	9	0.14
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	3	0.14
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	3	0.14
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	9	0.14
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	7	0.14
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	3	0.14
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	5	0.14
(1,21)	1:12:A:LEU:HB2	1:13:A:LYS:H	9	0.14
(1,719)	1:9:A:ILE:HG12	1:12:A:LEU:HG	5	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	4	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	4	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	4	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	4	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	4	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	4	0.13
(1,633)	1:11:A:TRP:HZ3	1:23:A:PRO:HB2	3	0.13
(1,615)	1:16:A:GLY:H	1:19:A:SER:HB3	6	0.13
(1,615)	1:16:A:GLY:H	1:19:A:SER:HB3	8	0.13
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	7	0.13
(1,598)	1:1:A:GLU:HA	1:1:A:GLU:HB3	9	0.13
(1,581)	1:5:A:VAL:HG11	1:6:A:ARG:HA	5	0.13
(1,581)	1:5:A:VAL:HG12	1:6:A:ARG:HA	5	0.13
(1,581)	1:5:A:VAL:HG13	1:6:A:ARG:HA	5	0.13
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	1	0.13
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	9	0.13
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	6	0.13
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	7	0.13
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	1	0.13
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	4	0.13
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	7	0.13
(1,464)	1:21:A:ARG:HB3	1:21:A:ARG:HD2	7	0.13
(1,453)	1:19:A:SER:HA	1:19:A:SER:HB2	1	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	1	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	2	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	3	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	4	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	6	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	7	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	8	0.13
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	10	0.13
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	4	0.13
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	4	0.13
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	7	0.13
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	7	0.13
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	7	0.13
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	5	0.13
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	6	0.13
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	6	0.13
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	6	0.13
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	6	0.13
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	3	0.13
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	3	0.13
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	3	0.13
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	5	0.13
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	5	0.13
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	5	0.13
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	2	0.13
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	2	0.13
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	2	0.13
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG21	6	0.13
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG22	6	0.13
(1,341)	1:5:A:VAL:HA	1:5:A:VAL:HG23	6	0.13
(1,284)	1:2:A:GLU:HA	1:3:A:GLU:H	6	0.13
(1,255)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	10	0.13
(1,200)	1:11:A:TRP:HE3	1:23:A:PRO:HB3	10	0.13
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	2	0.13
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	2	0.13
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	10	0.13
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	10	0.13
(1,123)	1:24:A:PRO:HG2	1:25:A:CYS:H	5	0.13
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	8	0.13
(1,44)	1:14:A:ASP:H	1:14:A:ASP:HB3	7	0.13
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG21	8	0.13
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG22	8	0.13
(1,16)	1:5:A:VAL:H	1:5:A:VAL:HG23	8	0.13
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG21	8	0.13
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG22	8	0.13
(1,8)	1:5:A:VAL:H	1:5:A:VAL:HG23	8	0.13
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	3	0.12
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	3	0.12
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	3	0.12
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	3	0.12
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	3	0.12
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG11	10	0.12
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG12	10	0.12
(1,682)	1:4:A:CYS:HB2	1:5:A:VAL:HG13	10	0.12
(1,664)	1:21:A:ARG:HB3	1:22:A:PRO:HD2	6	0.12
(1,641)	1:8:A:TYR:HD1	1:25:A:CYS:HB3	7	0.12
(1,641)	1:8:A:TYR:HD2	1:25:A:CYS:HB3	7	0.12
(1,633)	1:11:A:TRP:HZ3	1:23:A:PRO:HB2	5	0.12
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	10	0.12
(1,537)	1:23:A:PRO:HB2	1:24:A:PRO:HD2	8	0.12
(1,532)	1:24:A:PRO:HB3	1:24:A:PRO:HG2	3	0.12
(1,520)	1:24:A:PRO:HA	1:24:A:PRO:HB3	3	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	2	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	3	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	5	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	6	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	8	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	9	0.12
(1,469)	1:21:A:ARG:HB2	1:21:A:ARG:HB3	10	0.12
(1,453)	1:19:A:SER:HA	1:19:A:SER:HB2	9	0.12
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	5	0.12
(1,435)	1:17:A:PRO:HA	1:17:A:PRO:HD2	9	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	1	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	1	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	1	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	9	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	9	0.12
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	9	0.12
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	1	0.12
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	4	0.12
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	9	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	2	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	2	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	2	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	4	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	4	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	4	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	6	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	6	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	7	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	7	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	7	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	10	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	10	0.12
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	10	0.12
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB2	3	0.12
(1,335)	1:3:A:GLU:HA	1:3:A:GLU:HB3	3	0.12
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG2	8	0.12
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG3	8	0.12
(1,280)	1:4:A:CYS:H	1:5:A:VAL:H	9	0.12
(1,263)	1:18:A:SER:HA	1:20:A:GLY:H	1	0.12
(1,255)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	2	0.12
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	5	0.12
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	8	0.12
(1,227)	1:11:A:TRP:HZ2	1:23:A:PRO:HG2	10	0.12
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	6	0.12
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	6	0.12
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	1	0.12
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	2	0.12
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	5	0.12
(1,180)	1:11:A:TRP:HB2	1:11:A:TRP:HE3	6	0.12
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	3	0.12
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	3	0.12
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	3	0.12
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	3	0.12
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	3	0.12
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	3	0.12
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	7	0.12
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	7	0.12
(1,152)	1:8:A:TYR:HB2	1:9:A:ILE:H	8	0.12
(1,152)	1:8:A:TYR:HB3	1:9:A:ILE:H	8	0.12
(1,119)	1:7:A:LEU:H	1:10:A:GLN:HB2	9	0.12
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	4	0.12
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	9	0.12
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	4	0.12
(1,94)	1:20:A:GLY:HA3	1:21:A:ARG:H	5	0.12
(1,93)	1:19:A:SER:HG	1:21:A:ARG:H	9	0.12
(1,75)	1:25:A:CYS:H	1:25:A:CYS:HB2	9	0.12
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	3	0.12
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	2	0.12
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG2	2	0.11
(1,723)	1:12:A:LEU:HB3	1:13:A:LYS:HG3	2	0.11
(1,694)	1:9:A:ILE:HG21	1:12:A:LEU:HB3	6	0.11
(1,694)	1:9:A:ILE:HG22	1:12:A:LEU:HB3	6	0.11
(1,694)	1:9:A:ILE:HG23	1:12:A:LEU:HB3	6	0.11
(1,622)	1:2:A:GLU:HB3	1:5:A:VAL:H	10	0.11
(1,565)	1:4:A:CYS:HA	1:7:A:LEU:HG	7	0.11
(1,554)	1:22:A:PRO:HB3	1:23:A:PRO:HD2	3	0.11
(1,552)	1:11:A:TRP:HB2	1:24:A:PRO:HD2	1	0.11
(1,551)	1:16:A:GLY:HA3	1:17:A:PRO:HD3	7	0.11
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG2	2	0.11
(1,471)	1:21:A:ARG:HB3	1:21:A:ARG:HG3	2	0.11
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	1	0.11
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	1	0.11
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	1	0.11
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	2	0.11
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	2	0.11
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	2	0.11
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	5	0.11
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	5	0.11
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	5	0.11
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	6	0.11
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	6	0.11
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	6	0.11
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	2	0.11
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	2	0.11
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	2	0.11
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	1	0.11
(1,397)	1:10:A:GLN:HB2	1:10:A:GLN:HG2	3	0.11
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	1	0.11
(1,394)	1:10:A:GLN:HA	1:10:A:GLN:HB2	7	0.11
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	7	0.11
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	7	0.11
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	7	0.11
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	3	0.11
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	2	0.11
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	7	0.11
(1,377)	1:9:A:ILE:HA	1:9:A:ILE:HG13	10	0.11
(1,352)	1:6:A:ARG:HB3	1:6:A:ARG:HD2	8	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	1	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	1	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	8	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	8	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	8	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG11	9	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG12	9	0.11
(1,344)	1:5:A:VAL:HB	1:5:A:VAL:HG13	9	0.11
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG2	4	0.11
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG3	4	0.11
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	7	0.11
(1,262)	1:10:A:GLN:HA	1:10:A:GLN:HE22	8	0.11
(1,255)	1:11:A:TRP:HH2	1:17:A:PRO:HB2	7	0.11
(1,254)	1:11:A:TRP:HZ2	1:17:A:PRO:HB2	2	0.11
(1,220)	1:8:A:TYR:HD1	1:9:A:ILE:HG12	5	0.11
(1,220)	1:8:A:TYR:HD2	1:9:A:ILE:HG12	5	0.11
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD11	8	0.11
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD12	8	0.11
(1,208)	1:11:A:TRP:HZ3	1:12:A:LEU:HD13	8	0.11
(1,199)	1:8:A:TYR:HD1	1:23:A:PRO:HB3	3	0.11
(1,199)	1:8:A:TYR:HD2	1:23:A:PRO:HB3	3	0.11
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD11	6	0.11
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD12	6	0.11
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD13	6	0.11
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD21	6	0.11
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD22	6	0.11
(1,155)	1:7:A:LEU:H	1:7:A:LEU:HD23	6	0.11
(1,123)	1:24:A:PRO:HG2	1:25:A:CYS:H	2	0.11
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	2	0.11
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	7	0.11
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	8	0.11
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	10	0.11
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	7	0.11
(1,115)	1:9:A:ILE:H	1:9:A:ILE:HG13	10	0.11
(1,112)	1:7:A:LEU:H	1:7:A:LEU:HB3	1	0.11
(1,112)	1:7:A:LEU:H	1:7:A:LEU:HB3	5	0.11
(1,108)	1:14:A:ASP:H	1:15:A:GLY:H	9	0.11
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	1	0.11
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	5	0.11
(1,48)	1:10:A:GLN:HE21	1:10:A:GLN:HG3	9	0.11
(1,35)	1:10:A:GLN:H	1:10:A:GLN:HB2	3	0.11
(1,27)	1:3:A:GLU:H	1:3:A:GLU:HB2	7	0.11
(1,27)	1:3:A:GLU:H	1:3:A:GLU:HB3	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,717)	1:12:A:LEU:HD11	1:16:A:GLY:HA2	9	0.1
(1,717)	1:12:A:LEU:HD12	1:16:A:GLY:HA2	9	0.1
(1,717)	1:12:A:LEU:HD13	1:16:A:GLY:HA2	9	0.1
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD11	2	0.1
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD12	2	0.1
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD13	2	0.1
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD21	2	0.1
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD22	2	0.1
(1,706)	1:6:A:ARG:HG3	1:7:A:LEU:HD23	2	0.1
(1,705)	1:9:A:ILE:HG21	1:13:A:LYS:HD2	9	0.1
(1,705)	1:9:A:ILE:HG22	1:13:A:LYS:HD2	9	0.1
(1,705)	1:9:A:ILE:HG23	1:13:A:LYS:HD2	9	0.1
(1,695)	1:5:A:VAL:HG11	1:9:A:ILE:HB	10	0.1
(1,695)	1:5:A:VAL:HG12	1:9:A:ILE:HB	10	0.1
(1,695)	1:5:A:VAL:HG13	1:9:A:ILE:HB	10	0.1
(1,646)	1:15:A:GLY:HA2	1:18:A:SER:HB3	9	0.1
(1,613)	1:18:A:SER:HB3	1:19:A:SER:H	5	0.1
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE2	3	0.1
(1,545)	1:13:A:LYS:HB2	1:13:A:LYS:HE3	3	0.1
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE2	3	0.1
(1,545)	1:13:A:LYS:HB3	1:13:A:LYS:HE3	3	0.1
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	7	0.1
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	7	0.1
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	7	0.1
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	8	0.1
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	8	0.1
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	8	0.1
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	9	0.1
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	9	0.1
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	9	0.1
(1,413)	1:12:A:LEU:HD11	1:12:A:LEU:HG	10	0.1
(1,413)	1:12:A:LEU:HD12	1:12:A:LEU:HG	10	0.1
(1,413)	1:12:A:LEU:HD13	1:12:A:LEU:HG	10	0.1
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD11	8	0.1
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD12	8	0.1
(1,408)	1:12:A:LEU:HA	1:12:A:LEU:HD13	8	0.1
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	2	0.1
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	2	0.1
(1,390)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	2	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	1	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	2	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	5	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	6	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	8	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	9	0.1
(1,384)	1:9:A:ILE:HB	1:9:A:ILE:HG12	10	0.1
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG2	9	0.1
(1,334)	1:3:A:GLU:HA	1:3:A:GLU:HG3	9	0.1
(1,237)	1:11:A:TRP:HZ2	1:22:A:PRO:HB2	2	0.1
(1,226)	1:11:A:TRP:HH2	1:23:A:PRO:HG2	10	0.1
(1,127)	1:19:A:SER:HA	1:20:A:GLY:H	6	0.1
(1,117)	1:12:A:LEU:H	1:12:A:LEU:HB3	1	0.1
(1,112)	1:7:A:LEU:H	1:7:A:LEU:HB3	6	0.1
(1,112)	1:7:A:LEU:H	1:7:A:LEU:HB3	7	0.1
(1,112)	1:7:A:LEU:H	1:7:A:LEU:HB3	9	0.1
(1,65)	1:20:A:GLY:H	1:20:A:GLY:HA2	6	0.1

10 Dihedral-angle violation analysis

No dihedral-angle restraints found